

2019

# DRIVING PRODUCTIVITY AND INNOVATIVE SOLUTIONS

- PRE- AND POST-WELD TREATMENT
- CUTTING · GRINDING · BLENDED
- SANDING · FINISHING · BRUSHING
- TOOLING · POWER TOOLS
- DEGREASING · LUBRICATING



**WALTER**  
Surface Technologies

Only the best.™

# HELPING CUSTOMERS WORK BETTER DAY AFTER DAY **THAT'S WHAT WE DO**

Walter Surface Technologies provides high productivity abrasives, power tools, tooling, chemical tools and environmental solutions to the metalworking industry. We have done this since 1952. To help you work better, we developed our Partnership in Productivity program, which is dedicated to safety and productivity.

This encompasses our Bucket Program, Productivity Reports, Safety Seminars and Product Demonstrations – all designed to help our customers work better and safer. We continuously improve our customer support capabilities so that we can continue to help workers around the world.

## **PROVIDED SOLUTIONS**

- Pre- and post-welding
- Cutting
- Grinding
- Blending
- Sanding
- Finishing
- Brushing
- Tooling
- Power tools
- Cleaning and degreasing
- Lubricating



# PARTNERSHIP IN PRODUCTIVITY PROGRAMS

## CHEMICAL AUDITS AND PROCESS OPTIMIZATION

*Increased productivity and safety through professional audits*

Walter technicians analyze your contaminants and cleaning processes and recommend ways to improve efficiency and productivity. We provide a detailed cost analysis report to help you make informed decisions. Our representatives are trained professionals ready to listen. They make suggestions, demonstrate products, and let you see for yourself how well Walter products work. Chemical audits help consolidate product requirements and optimize inventory.



## SAFETY SEMINARS AND INDUSTRY TRAINING

*Because health and safety are top priority*

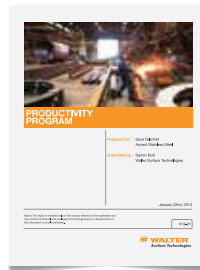
As an addition to Walter's value-added services, we offer FREE Safety Seminars to encourage a safer work environment. Whether it is the Abrasives Safety Seminar or the Chemical Safety Seminar that you are interested in, Walter works with you to customize the perfect training for your team. We provide hands-on training at our fully-equipped campus so your team can innovate and operate safely. While training, you will work with our professional Product Management Team.



## PRODUCTIVITY REPORTS

*Working to positively impact your business*

Accompanying every Bucket Program analysis, a detailed productivity report comparing Walter products versus competitive products in terms of yearly usage, removal, labour time and cost, product life and product cost. The goal of the productivity report is to provide you with all the facts in hand, so that you can optimize your productivity and make adjustments that will positively impact your business.



## THE BUCKET PROGRAM

*Evaluation of cost savings potential and improved worker safety*

Walter will assist in optimizing your workflow and cost savings by analyzing your abrasive and tooling usages and work processes through our Bucket Program. Based on our analysis, we will be able to make recommendations on how you can improve efficiency, reduce abrasive costs, improve productivity and encourage safer working habits, maximizing every dollar spent on consumables.



## PRODUCT DEMONSTRATION

Our team is trained to listen and provide innovative solutions that answer your specific needs. With our mobile product demonstration trucks, Walter's team can easily go to your facility and help make the fabricating and finishing process more efficient, reducing both abrasive spend and overall production costs.



## THE MONEY MAKER GUARANTEE

Walter's money maker guarantee certifies that all Walter products are designed, manufactured and sold with our total commitment in saving time, lasting longer and making money for you. Your total satisfaction is paramount to us, which is why we will reimburse you for your original purchase price\*. That is our guarantee.

\* Walter will reimburse up to \$1000 via free products if you are not completely satisfied.



# NEW PRODUCTS FOR 2019

TO DISCOVER MORE ABOUT THESE NEW PRODUCTS GO TO THEIR SPECIFIC PAGE, INDICATED WITH THIS SYMBOL



## ENDURO-FLEX ALU™

*High-performance flap disc for aluminum surfaces*

Get the highest removal rate in the industry and exceptional performance on non-ferrous alloys and heat-sensitive metals. Enduro-Flex ALU's superior zirconia alumina grain blend optimizes blending and finishing performance on virtually any aluminum surface.



## STRAIGHT-MATE™

*The ultimate straight grinder and lightweight polishing and buffing tool*

The Straight-Mate™ packs a punch as the ultimate lightweight straight grinder with Walter's Dynamax™ variable speed control and RPM range of 1,600 to 4,800. A versatile grinding, polishing and buffing tool.



## E-WELD PLASMA™ PUMP SPRAYER

*For use with E-WELD Plasma™ for wet or dry cutting tables*

Get great results faster with Walter's air powered, easy-to-clean pump sprayer. Built with a superior design and a pressure gauge for high performance and easy application without a mess.



## COLD SHOCK™

*Seized parts are no match for fast penetrating Cold Shock™*

Cold Shock™ is a high-tech lubricant that frees corroded and seized parts by creating a sudden, shock-freezing effect to -35°C. Cold Shock™ penetrates micro fissures to loosen nuts, bolts, studs, pins and other seized parts in an instant.



## ICECUT™ 250P

*Pipe application and curved surface-ready*

The powerful and versatile ICECUT™ 250P sets up fast and is uniquely designed to make short work of pipe-related jobs with the added safety and convenience of an electromagnet and standard magnet.



## ICECUT™ 250

*Powerful, versatile and intuitive magnetic drilling*

The powerful, intuitive and lightweight ICECUT™ 250 is a truly do-it-all machine, especially for its size. Dynamax™ control for smooth drilling and reversible speed for tapping holes. Ultimate versatility.



# THE WALTER ABRASIVES SELECTOR APP IS HERE.

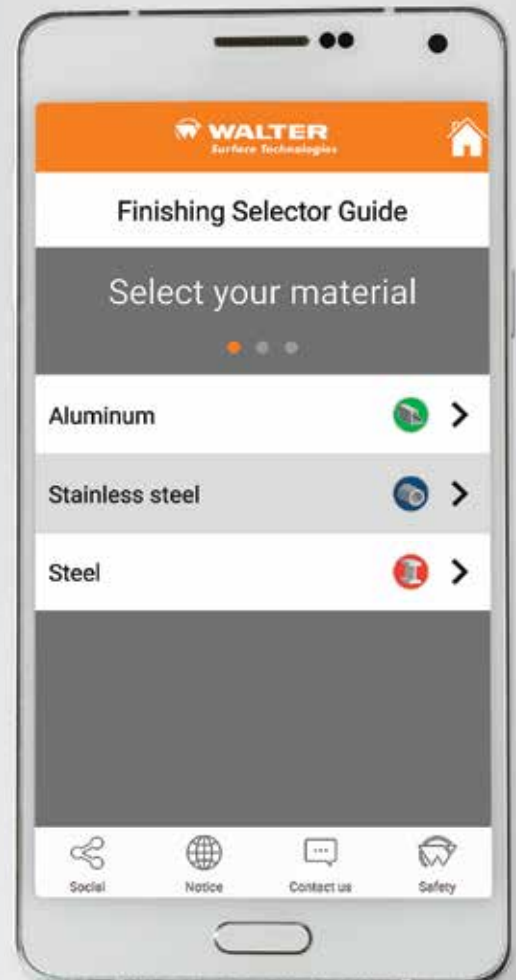
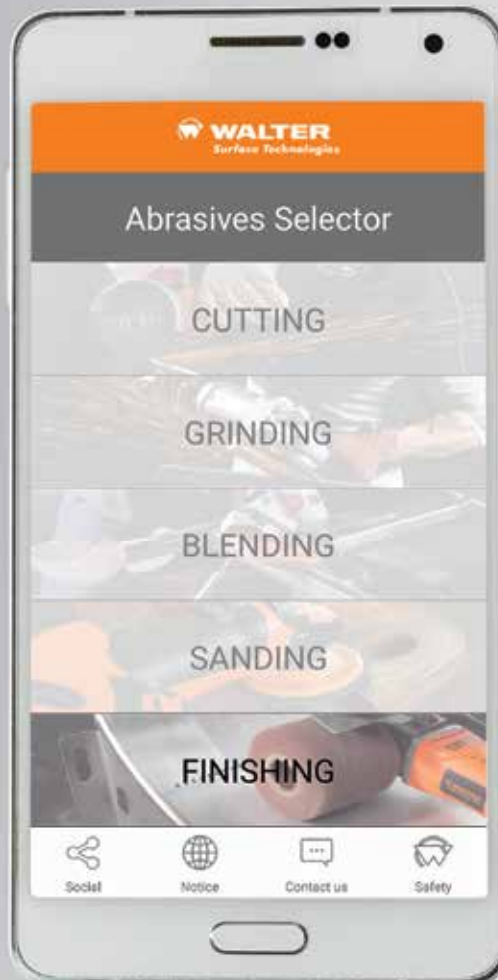
The finishing solutions you need,  
right at your fingertips.

*The Walter Abrasives Selector app will help you find the right finishing solution in just a few clicks.*

- Keep track of your preferred solutions by saving, emailing, or sharing product summaries in PDF format.
- Improve your finishing results by watching our step-by-step videos packed with expert tips.

Find the perfect solution for every job, and learn how to achieve the perfect finish, all in one place.

*Download the Walter Abrasives Selector app today.*



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# SAFETY FIRST

## Tips on the safest and most effective use of abrasives and power tools\*



- Disconnect the power tool prior to changing abrasives.
- Inspect the abrasive for any sign of damage. Do not use if damaged.
- Check MAX. RPM on abrasive and check the spindle speed of the tool. Never run an abrasive faster than its MAX. RPM (or M.R.S. = Maximum Rated Speed).
- Mounting: Use only approved mounting hardware for the abrasive at hand. Above all, the clamping hardware must center the wheel securely and provide the required support to the abrasive.
- Abrasives must be used with safety guards in place as indicated on the label. Adjust guards to protect the operator.
- Always wear eye protection. Wear face, body, ear and dust inhalation protection as needed.
- Practice safe working methods: Secure the workpiece, hold the tool firmly, avoid cluttered and badly lit work areas.
- Ensure adequate protection of other workers in the vicinity.
- Do not use abrasives and tools over their rated capacity, follow manufacturer's instructions.
- Service power tools regularly and according to manufacturer's instructions to keep them in good working condition and maintain their performance. Do not use if damaged.

\*Walter abrasives are designed for use as directed in all applicable safety codes, such as CSA, WHMIS, ANSI, OSHA and other regulatory bodies. Always work within these applicable rules and regulations.

## SAFEST AND MOST EFFECTIVE WORK METHODS



### GRINDING

Type 27 depressed center grinding wheels are designed to be used at a 15° to 20° working angle.



### FLEXCUT

FLEXCUT flexible grinding wheels are best used with a working angle of 10° to 15°.



### FLAP DISCS

Flap discs are designed to be used at a working angle of 4° to 10°. Never use flat.



### SANDING DISCS

Fiber backed sanding discs work best at a working angle of 4° to 10°. They must be used on a full size flexible backing pad.



### CUT-OFF WHEELS

Choose direction of cut to present the narrowest cross section of the material to the wheel.

Cut large solids with a moderate rocking motion. Avoid twisting and bending of the wheel in the cut. Do not use a cut-off wheel for deburring unless otherwise specified.



### FLAP WHEELS

Apply moderate working pressure when working with flap wheels – let the tips of the flaps do the work.



### WIRE BRUSHES

Work with the face of a wire brush. Apply moderate working pressure to let the wire tips do the work and prevent excessive bending of the wire.

## STORAGE TIPS FOR ABRASIVE PRODUCTS

- Keep abrasives in their original packaging, to protect them from water and excessive heat.
- Coated abrasives, such as fiber discs, flap discs and cloth belts perform best when stored in an area with 50% humidity at 22 °C (70 °F).

## SAFETY SEMINAR

Walter offers free in-plant safety seminars to promote the safe use of abrasives. Reserve your safety seminar today by calling: **1-888-592-5837**. For more information, visit [walter.com/safety](http://walter.com/safety)

# IMPORTANT

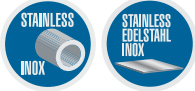
# WALTER ICONS LEGEND

## Materials

Red for steel



Blue for stainless steels and nickel-based alloys



Green for aluminum and non-ferrous metals



Gold for brass



Black for plastic



Purple for cast iron



Gray for concrete and ductile metal



Charcoal for carbide



Titanium



Dark gray for mill scale



Light gray for hard metal



## Wheel grade

Bond type, grain type and grain size

## Warning

When using SPIN-ON quick mounting system

## Dimensions

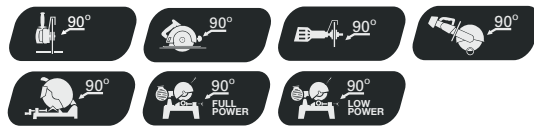
Diameter, thickness, bore

## More information

Consult WALTER website for complete safety information

## Working angle

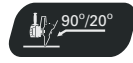
The only permitted angle for cutting wheels is 90° to the material (Type 1 (EN 41) – flat)



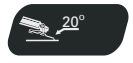
Type 27 / (EN 42) – (depressed centered)



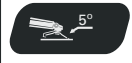
Type 27 combo (cutting and grinding) wheels ideal angle is 90° or 20°



Type 27 grinding ideal angle varies from 15° to 30°



Type 28 ideal angle is lower than 10°



Type 29 ideal angle is 10°



## Simple numbering system

Makes it easy to reorder. Also present in the center of bonded wheels to be readable when wheels are worn-out.

## Maximum speed

RPM (rotations per minute) and m/s (meters per second)

## Compliance

Products manufactured in compliance with European regulation EN 12413 and US regulation ANSI B7.1

## Traceability

Internal code to monitor production for safety

## Restrictions

DO NOT use if damaged



NOT suitable for hand-held grinders



NOT suitable for grinding



DO NOT use for wet grinding or cutting



## Safety

Eyes, face, ears and lungs protection



Hand protection



Always use safety guard



## Walter environmental products - Legend



### Volatile Organic Compounds

Volatile organic compounds (VOCs) are products that contain potentially toxic levels of hazardous materials. Paints, stains and varnishes have long contributed considerably to the prolific release of VOCs. Products where you see the VOC-free logo guarantee that they contain no VOCs.



### Nonfood Compounds Program

The global food industry relies upon nonfood compounds to facilitate the efficient processing, handling and storage of food throughout the supply chain. Nonfood compounds include such substances as cleaners, sanitizers, boiler compounds and lubricants.



### CAS - Clean Air Solvent Certification

The Clean Air Act Solvent Certification is delivered by the SCAQMD (South Coast Air Quality Management District in California). They are committed to protect the health of residents of this area and are among the most strict around the world.

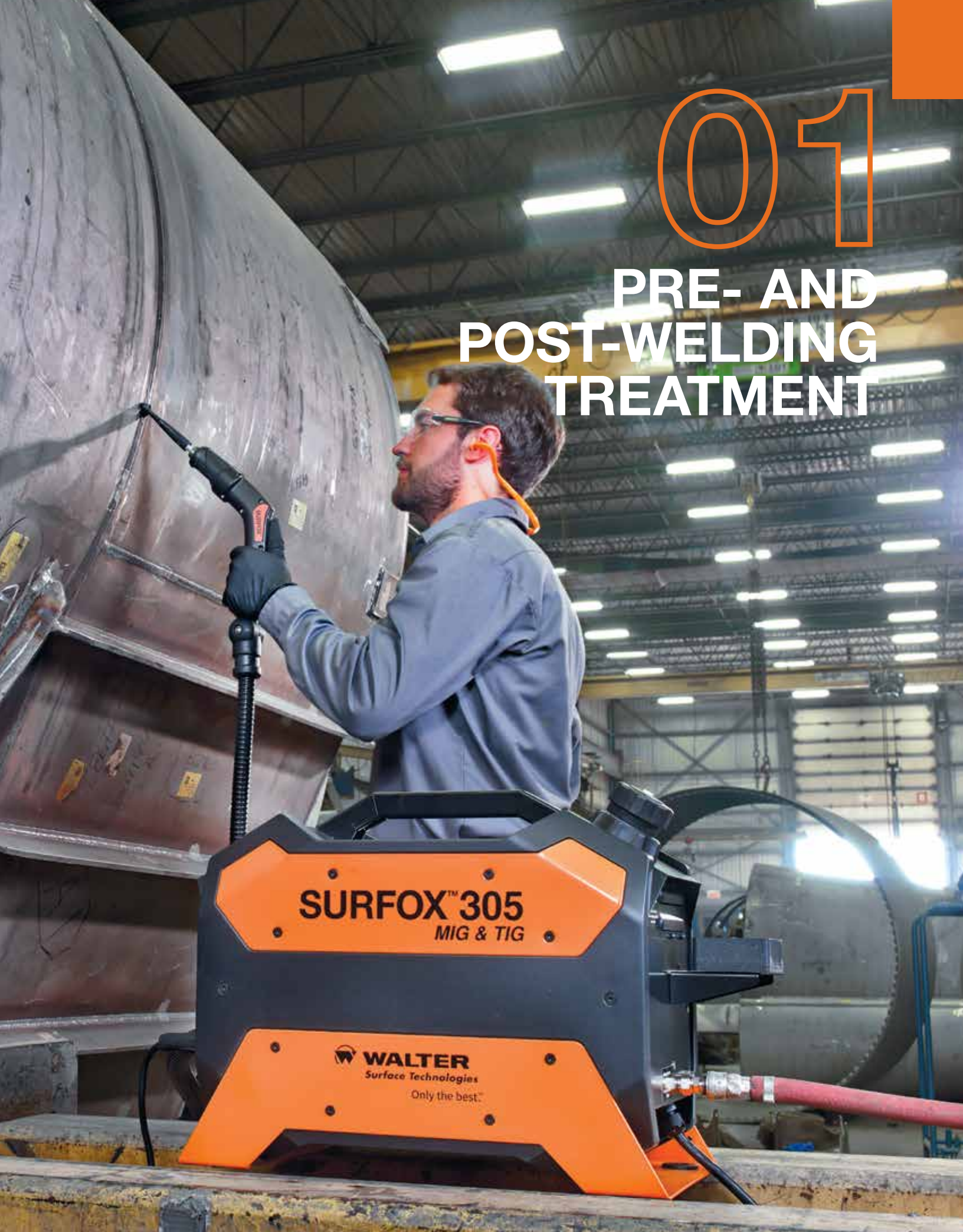


### Accepted for use in food plants

Products with this logo presented are accepted for use in food plants within Canadian borders.

# 01

## PRE- AND POST-WELDING TREATMENT



**SURFOX™ 305**  
MIG & TIG

**WALTER**  
Surface Technologies  
Only the best.™

# SURFOX WELD CLEANING



VISIT [SURFOX.COM](http://SURFOX.COM)  
to register your SURFOX SYSTEM  
and get 6 months extended warranty

The use of SURFOX systems is a recognized method for achieving Chemical Passivation on Stainless Steel Parts, as defined by the ASTM 967-05 specification.

### Features and benefits

- ▷ **Safer:** SURFOX cleaning electrolytes are NSF registered and authorized for use in food plants
- ▷ **Faster:** Uniform cleaning and passivation at a rate of 3 to 5 feet per minute
- ▷ **Easy:** Pour your SURFOX electrolyte into the reservoir and start cleaning

## Electrochemical Weld Cleaning Systems for Stainless Steel and Aluminum

The SURFOX electrochemical weld cleaning system is a highly effective method for removing heat tint from welded stainless steel and aluminum (TIG, spot and MIG), without altering the surface of the parent material. SURFOX promotes the formation of a uniform and durable chromium oxide passive layer to protect stainless steel against corrosion.

### Passivation

*Why is passivation important?*

Stainless steel is naturally able to resist corrosion thanks to a passive chromium oxide layer that forms on its surface. The formation of this protective layer is called passivation. Abrasion or excessive heat (caused by welding) will destroy this protective layer and expose the metal to corrosion. In order to fully restore the corrosion resistance of stainless steel, heat tint and other surface contaminants must be removed. SURFOX is a safe, effective and fast electrochemical cleaning system. The rate of cleaning welds with this system is between 3-5 feet per minute. The SURFOX system combines both the cleaning power of electrical current and the passivation properties of electrolyte cleaning solutions. Passivation begins instantly after the SURFOX electrochemical cleaning process is completed. It usually takes between 24 to 48 hours for passivation to be stable and complete.

## How to choose a SURFOX system

Material	Welding process	Work environment	Application	System
<p><b>Stainless Steel or Aluminum</b></p>	MIG and TIG	Production	Cleaning, electro polishing, marking and etching	<b>SURFOX 305</b> 
<p><b>Stainless Steel or Aluminum</b></p>	TIG (only)	Production	Cleaning, electro polishing, marking and etching	<b>SURFOX 205</b> 
<p><b>Stainless Steel or Aluminum</b></p>	TIG (only)	Portable	Cleaning, electro polishing, marking and etching	<b>SURFOX Mini</b> 

# SURFOX™ 305 MIG & TIG

The industry's safest and fastest MIG & TIG weld cleaning system

The SURFOX™ 305 is our patented electrochemical weld cleaning system for stainless steel and aluminum. It quickly and easily removes heat tint from the heat-affected zone of MIG, TIG and spot welds, cleaning the surface and allowing passivation on stainless steel to begin without altering the surface finish. The integrated tank and flow-through system ensures the electrolyte solution is delivered directly to the workpiece, minimizing the potential for spillage or cross-contamination. The dynamic current control also ensures that the electrical current will not cause micropitting on the surface.



## Features and benefits

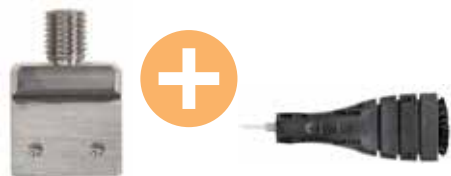
- ▷ Easily cleans MIG welds, TIG & spot welds
- ▷ Exclusive quick-change brush system to easily change out accessories and reduce downtime
- ▷ Ability to clean larger and hard to reach areas with our new brushes
- ▷ Integrated reservoir reduces the potential for contaminating or spilling the electrolyte solution
- ▷ AC mode for cleaning or marking
- ▷ DC mode for polishing or etching
- ▷ Built-in vapor dispersion system

Model	Order No.	Electrical		Dimensions			Tank capacity	Length of hose	Weight
		Input	Output	Length	Width	Height			
305	54-D 315	120 V, 50/60 Hz, 8.0 A	12-30 V AC/DC, 30 A max	18.50"	9.75"	15"	64.2 oz	13'	44 lbs

**Each unit comes with:** 1 x Tungsten insert (54-B 143), 3 x standard high conductivity cleaning pads (54-B 026), 1 x Teflon ring (54-B 002), 1 x SURFOX 305 wide carbon fiber brush (54-B 155), 1 x SURFOX 305 narrow carbon fiber brush (54-B 156), 1 x adaptor for SURFOX 305 brush (54-B 149), 1 x ground cable (48-R 136), 1 x user guide, 1 x carrying case

## SURFOX 305 ACCESSORIES

Recommended for cleaning MIG welds



**Reusable brush adaptor for large wand**  
Order No.: 54-B 149

**Wide carbon fiber brush with removable rings**  
5 per package  
Order No.: 54-B 155

Recommended for cleaning TIG welds



**Tungsten insert 90°**  
Order No.: 54-B 143

**Standard cleaning pad**  
46 mm L x 24 mm W x 4 mm T  
Use with inserts 54-B 133 and 54-B 036  
10 per package plus clamp ring  
Order No.: 54-B 026

Replacement wand assemblies

4 m (13') long  
Order No.: 54-B 125  
9 m (30') long  
Order No.: 54-B 126

Recommended for tight corners



**Reusable brush adaptor for large wand**  
N° de comm.: 54-B 149

**Carbon fiber brush with removable rings**  
5 per package  
Order No.: 54-B 156

Recommended for renewing large surfaces



**Large graphite insert**  
45 mm W - Ideal for surface renewing or restoring, and to clean the back of MIG welds  
Order No.: 54-B 009

**Large pad for graphite insert**  
5 per package  
Order No.: 54-B 052



# SURFOX™ 205

For TIG and spot welds on stainless steel and aluminum

This industrial weld cleaning system features extensive safety and productivity features to minimize consumable use and provide economical cleaning and passivation of stainless steel TIG & spot welds. The SURFOX™ 205 has been engineered to clean MIG, TIG and spot welds on aluminum, and with the use of special marking kits (sold separately), it can also mark stainless steel, aluminum and titanium surfaces. This is a durable production model designed for every day use.



### Features and benefits

- ▷ **Built-in fume elimination system** (requires a compressed air line)
- ▷ **Switchable output:**
  - AC Mode: cleaning & marking
  - DC Mode: polishing & etching
- ▷ **Redesigned pump and tank** for maximum efficiency
- ▷ **New Quick-Connect system** allows you to quickly change between 4 m and 9 m long wand assemblies (9m wand sold separately)

Model	Order No.	Electrical		Dimensions			Tank capacity	Length of hose	Weight
		Input	Output	Length	Width	Height			
205	54-D 215	120 V, 50/60 Hz, 4.0 A	12-30V AC/DC, 15A max	18 1/2"	9 3/4"	15"	64.2 oz	13'	41 lbs

**Each unit comes with:** 1 x Tungsten insert (54-B 143), 3 x standard high conductivity cleaning pads (54-B 026), 1 x Teflon ring (54-B 002), 1 x carbon fiber brush (54-B 158), 1 x brush adaptor (54-B 149) 1 x ground cable (48-R 136), 1 x user guide, 1 x carrying case

## SURFOX 205 ACCESSORIES

Recommended for cleaning TIG welds



**Tungsten insert 90°**  
Order No.: 54-B 143

**Standard cleaning pad**  
46 mm L x 24 mm W x 4 mm T  
Use with inserts 54-B 133 and 54-B 036  
10 per package plus clamp ring  
Order No.: 54-B 026

Recommended for renewing large surfaces



**Large graphite insert**

45 mm W - Ideal for surface renewing or restoring, and to clean the back of MIG welds  
Order No.: 54-B 009

**Large pad for graphite insert**  
5 per package  
Order No.: 54-B 052

Recommended for tight corners



**Reusable brush adaptor for large wand**  
Order No.: 54-B 149

**Carbon fiber micro-brush**  
Order No.: 54-B 158

Replacement wand assemblies



4 m (13') long  
Order No.: 54-B 125  
9 m (30') long  
Order No.: 54-B 126

# SURFOX MINI™

The ideal unit for field or repair work

The ergonomically designed SURFOX Mini™ comes equipped with a variable power setting that ensures a perfect finish on even the most delicate surfaces. This unit utilizes refillable electrolyte cartridges instead of an integrated tank to reduce the weight and increase portability. Excellent for use on repairs, touchups and small jobs. This newly redesigned unit can clean TIG or spot welds on stainless steel and MIG, TIG or spot welds on aluminum. It can also mark stainless steel, aluminum and titanium surfaces with the use of a SURFOX marking kit.

## Features

*The SURFOX Mini comes equipped with a unique cartridge refilling pump. You can easily refill cartridges and save money by buying SURFOX electrolyte solutions in bulk packaging.*

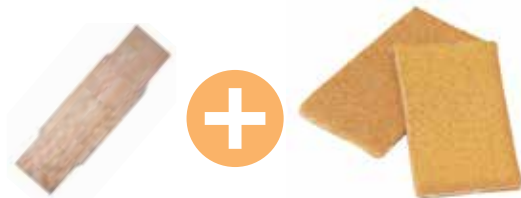


Model	Order No.	Electrical		Dimensions			Tank capacity	Length of hose	Weight
		Input	Output	Length	Width	Height			
MINI	54-D 055	120 V, 50/60 Hz, 4.0 A	12-30 V AC/DC, 15 A max	12"	4.5"	8.86"			8.4 lbs

**Each unit comes with:** 1 micro-wand, 1 x micro-wand holder (48-R 286), 1 x micro wand holder extension sleeve (48-R 460), 1 x narrow tungsten insert (54-B 038), 1 x narrow cleaning pad (54-B 028), 1 x teflon ring (54-B 020), 1 x carbon fiber micro-brush (54-B 157), 1 x adaptor for micro-brush (54-B 150), 1 x manual refilling pump (54-B 092), 1 x ground cable (48-R 283), 1 x user guide, 1 x carrying case

## SURFOX MINI ACCESSORIES

Recommended for cleaning TIG welds



**Narrow tungsten insert**  
Order No.: 54-B 038

**Narrow cleaning pad**  
46 mm L x 24 mm W x 2 mm T  
Use with insert 54-B 038  
10 per package plus clamp ring  
Order No.: 54-B 028

Recommended for renewing large surfaces



**Large graphite insert**  
35 mm W - Ideal for surface  
renewing or restoring, and to clean  
the back of MIG welds  
Order No.: 54-B 048

**Large pads for large graphite  
insert for SURFOX Mini**  
Pack of 10 with O-ring  
Order No.: 54-B 051

Recommended for tight corners



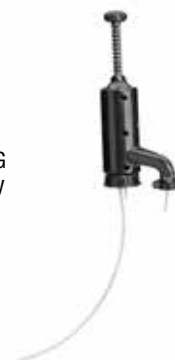
**Spare brush adaptor  
for Micro-Wand**  
Order No.: 54-B 150

**Carbon fiber  
micro-brush**  
5 per package  
Order No.: 54-B 157

Replacement pump for refilling cartridges of  
SURFOX electrolytes

### Cartridge refiller

Use this pump to buy SURFOX-T or SURFOX-G  
in bulk packaging and save even more money  
(included with every new SURFOX MINI;  
replacement part only)  
Order No.: 54-B 092



# SURFOX SOLUTIONS



## SURFOX-G™

pH neutral electrolyte solution

Must be used with the high conductivity pads: 54-B 026, 54-B 027 or 54-B 028.

**NSF category A3, registration #146974**

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Cartridge	100 ml	3.4 oz	54-A 061	S-10E	4
Liquid	1.5 L	51 oz	54-A 065	S-10E	1
Liquid	5 L	1.3 gal	54-A 066	S-10E	1
Liquid	20 L	5.2 gal	54-A 067	S-10E	1
Liquid	208 L	55 gal	54-A 068	S-10E	1

**Color:** Translucent

- ▷ *Great for cleaning TIG and spot welds on stainless or aluminum*
- ▷ *pH neutral, non acidic*
- ▷ *Less fumes than acid-based solutions*
- ▷ *Safe alternative to pickling paste and strong acids*
- ▷ *Non-corrosive*
- ▷ *Salt-based*
- ▷ *Compatible with all SURFOX machines*
- ▷ *Lower environmental impact*

### Tech tip!

Use with SURFOX-T drum pump  
54-B 106



## SURFOX-T™

Heavy-duty formula

Provides faster cleaning action and more thorough cleaning on MIG welds.

**NSF category A3, registration #142984**

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Cartridge	100 ml	3.4 oz	54-A 001	S-01E	12
Sprayer	500 ml	16.9 oz	54-A 003	S-01E	4
Liquid	1.5 L	51 oz	54-A 005	S-01E	1
Liquid	5 L	1.3 gal	54-A 006	S-01E	1
Liquid	20 L	5.2 gal	54-A 007	S-01E	1
Liquid	208 L	55 gal	54-A 008	S-01E	1

**Color:** Translucent

- ▷ *Quickly cleans all MIG and TIG welds on stainless steel or aluminum*
- ▷ *Safe alternative to pickling paste and strong acids*
- ▷ *SCAQMD compliant*



## SURFOX-N™

Cleaning and neutralizing formula

**NSF category A1, registration #142985**

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 oz	54-A 023	S-03E	12
Liquid	3.78 L	1 gal	54-A 025	S-03E	1
Liquid	5 L	1.3 gal	54-A 026	S-03E	1
Liquid	20 L	5.2 gal	54-A 027	S-03E	1
Liquid	208 L	55 gal	54-A 028	S-03E	1

**Color:** Translucent

- ▷ *Must be used to clean and neutralize SURFOX electrolyte solutions*
- ▷ *SCAQMD compliant*
- ▷ *Prevents the formation of salt deposits (hazy white discoloration) around welds cleaned with SURFOX*



## SURFOX™ PRE-WELD

Fast drying surface cleaner

Formulated for preparing and degreasing metal surfaces prior to welding.

### Benefits

- ▷ *Reduced VOC content when compared to solvent-based surface cleaners*
- ▷ *Ready-to-use formula*

### Features

- ▷ *Replacement for surface preparation solventssuch as acetone*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 oz	54-A 073	S-13E	12
Liquid	5 L	1.3 gal	54-A 076	S-13E	1
Liquid	20 L	5.2 gal	54-A 077	S-13E	1
Liquid	208 L	55 gal	54-A 078	S-13E	1

Color: Orange

## SURFOX™ RENEW

High strength stainless steel cleaner

Highly concentrated, gel-like cleaner for removing rust and mineral deposits from stainless steel. Removes contaminants without attacking the parent material. Must be neutralized with SURFOX-N after use.

### Benefits

- ▷ *Gel formulation allows the product to cling to inclined surfaces*
- ▷ *VOC-free, solvent-free, non-flammable, biodegradable surfactants*
- ▷ *Removes rust, oxidation, mineral deposits and light grease*

### Features

- ▷ *Concentrated formula – can be diluted up to 1:40 with water*
- ▷ *Ideal for cleaning of food processing and pharmaceutical equipment*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 oz	54-A 083	S-11E	12
Liquid	3.78 L	1 gal	54-A 085	S-11E	1
Liquid	20 L	5.2 gal	54-A 087	S-11E	1
Liquid	208 L	55 gal	54-A 088	S-11E	1

Color: Light orange

### Tech tip!

Use with white Blendex hand pads (07-A 500) to easily remove rust and other surface contaminants

## SURFOX™ SHINE

Cleaner and protector for stainless steel

An innovative, non-hazardous product that removes light contaminants from stainless steel in one easy step.

NSF category A7, C1, registration # 152509

### Benefits

- ▷ *Removes dust, dirt, finger prints, oils and handling marks*
- ▷ *Leaves a uniform finish without streaking*
- ▷ *Brightens and protects stainless steel surfaces*
- ▷ *Not controlled under WHMIS or OSHA*

### Features

- ▷ *Ready-to-use formula*
- ▷ *Silicone-free, VOC-free, solvent-free, non-flammable, phosphate-free, biodegradable*
- ▷ *For cleaning of food processing and pharmaceutical equipment*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 oz	54-A 093	S-12E	12
Liquid	3.78 L	1 gal	54-A 095	S-12E	1
Liquid	20 L	5.2 gal	54-A 097	S-12E	1
Liquid	208 L	55 gal	54-A 098	S-12E	1

Color: White

# OTHER SURFOX ACCESSORIES

## Cleaning pads

Designed to be used with SURFOX-G and SURFOX-T



**Standard cleaning pad**  
46 mm L x 24 mm W x 4 mm T  
Use with inserts 54-B 133 and 54-B 036  
10 per package plus clamp ring  
**Order No.:** 54-B 026



**Inside corners cleaning pad**  
60 mm L x 38 mm W x 2 mm T  
10 per package plus clamp ring  
**Order No.:** 54-B 027



**Narrow cleaning pad**  
46 mm L x 24 mm W x 2 mm T  
Use with insert 54-B 038  
10 per package plus clamp ring  
**Order No.:** 54-B 028



**Large pads for large graphite insert**  
90 mm L X 50 mm W X 2 mm T  
Pack of 10 with O-ring  
**Order No.:** 54-B 043



**Large pad for graphite insert**  
5 per package  
**Order No.:** 54-B 052



**Large pads for large graphite insert for SURFOX Mini**  
Pack of 10 with O-ring  
**Order No.:** 54-B 051

## For all models



**Narrow clamp ring for narrow pads**  
Use with narrow inserts 54-B 038  
10 per package  
**Order No.:** 54-B 020



**SURFOX RENEW refillable trigger sprayer**  
Highly concentrated, gel-like cleaner for removing rust and mineral deposits from stainless steel. 500 ml (16.9 oz)  
**Order No.:** 53-L 353



**Electrolyte straw**  
**Order No.:** 48-R 294



**Clamp ring for cleaning pads**  
Use with inserts 54-B 133, and 54-B 036  
10 per package  
**Order No.:** 54-B 002



**SURFOX PRE-WELD refillable trigger sprayer**  
Formulated for preparing and degreasing metal surfaces prior to welding. 500 ml (16.9 oz)  
**Order No.:** 53-L 354



**12' long cable for Micro-Wand**  
**Order No.:** 48-R 458



**Micro-Wand and brush kit**  
With carbon fiber brush for cleaning corners and intricate areas  
**Order No.:** 54-B 133



**SURFOX-N refillable trigger sprayer**  
Identified with GHS compliant product specific labels showing product features, OSHA/WHMIS information and directions for use. 500 ml (16.9 oz)  
**Order No.:** 53-L 339



**SURFOX Powercloth**  
**Order No.:** 54-B 090



**Micro-Wand and tungsten insert kit**  
With tungsten inserts and pads for cleaning corners and intricate areas  
**Order No.:** 54-B 033



**SURFOX station**  
With its sturdy and industrial design, the SURFOX station has been designed to make it easy to move your SURFOX system throughout your work environment while allowing for the storage of various cleaning agents and accessories.  
**Order No.:** 54-B 050

# SURFOX MARKING KIT



Go ahead, make your mark!

SURFOX™ marking kits use a fast and simple electrochemical process to permanently mark stainless steel surfaces. The marking wand plugs directly into the SURFOX machine and is used with specially made permanent or disposable stencils.



## STANDARD MARKING KIT

Order No.: 54-B 080

The standard kit requires the use of permanent stencils available from Walter, each of which can be used hundreds of times.

### Includes:

- Marking wand and power cable
- Pack of 20 marking pads
- 5 O-rings
- Allen key 2.5 mm
- SURFOX-M marking solution 100 ml squeeze bottle for black marking (AC mode)
- SURFOX-E etching solution 100 ml squeeze bottle for white etching (DC mode)
- Packaged in a professional and sturdy case



## PRO MARKING KIT

Order No.: 54-B 081

The PRO kit is offered with a stencil thermal printer for the printing of disposable stencils to permanently mark stainless steel surfaces. The printer comes with software that allows the creation of stencils for barcodes, serial numbers, lot and batch numbers, text, company logos, and more.

### Includes:

- Marking wand and power cable
- Pack of 20 marking pads
- 5 O-rings
- Allen key 2.5 mm
- SURFOX-M marking solution 100 ml squeeze
- Bottle for black marking (AC mode)
- SURFOX-E etching solution 100 ml squeeze
- Bottle for white etching (DC mode)
- Thermal printer and 20 m of stencil paper
- Packaged in a professional and sturdy case

## Marking Kit Accessories

*For marking stainless steel and titanium*

**SURFOX-M**  
marking solution  
100 ml squeeze bottle  
NSF category P1,  
registration #146175  
Order No.: 54-A 031



*For marking aluminum*

**SURFOX-M ALU**  
electrolyte solution  
100 ml squeeze bottle  
Order No.: 54-A 131  
Also available in 5 L format  
Order No.: 54-A 136



*For etching stainless steel*

**SURFOX-E**  
etching solution  
100 ml squeeze bottle  
Order No.: 54-A 041



**Marking pads**  
Pack of 20  
Order No.: 54-B 083



**Power cable**  
Order No.: 54-B 063



**Graphite marking insert**  
Order No.: 54-B 088



**O-rings**  
Pack of 5  
Order No.: 54-B 089

**Marking wand**  
Order No.: 54-B 082



**Stencil paper roll**  
100 mm x 20 m  
Order No.: 54-B 086  
100 mm x 50 m  
Order No.: 54-B 087



## Permanent stencils

Can be used up to 200 times.

54 mm X 32 mm	54-B 076
85 mm X 54 mm	54-B 077
170 mm X 108 mm	54-B 073
257 mm X 170 mm	54-B 074
355 mm X 155 mm	54-B 079 *Aluminum frame

For more information: [stencil@walter.com](mailto:stencil@walter.com)

Marking on aluminum using customizable stencil paper rolls



# SURFACE MEASURING SYSTEMS



## SURFOX™ SMART PASSIVATION TESTER

Quickly and easily guarantee passivated stainless steel

The importance of validating the passivation of your stainless steel surfaces cannot be stressed enough. Impossible to detect with the naked eye, passivation indicates that the protective layer of chromium oxide exists on your stainless steel surface – the essential ingredient that guarantees your stainless steel will resist corrosion.

The SURFOX™ Smart Passivation Tester is a Bluetooth enabled, compact and portable testing device that allows you to quickly and easily ensure passivation of stainless steel anywhere, anytime – even on job sites!

Avoid costly re-work and rejected pieces and ship your products with confidence. With the SURFOX™ Smart Passivation Tester you rely on the most innovative and easy-to-use technology on the go.



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

# SURFOX™ SMART PASSIVATION TESTER

## HOW IT WORKS

Using Bluetooth technology, the device connects to your smartphone, and seamlessly uploads your reports to the “Walter Cloud”, a secure online database set up for easy data management, analysis, and report building.

Bluetooth | Wi-Fi | 

App 2.3 allows you to work offline and sync the results when you have Internet access

- ▷ *Easy to use*
- ▷ *Wireless device*
- ▷ *Bluetooth-enabled*
- ▷ *Smartphone compatible*
- ▷ *Test data stored in a cloud-based database*
- ▷ *Quickly generate reports*
- ▷ *Monitor, measure and guarantee the passivation level on workpieces or finished goods*
- ▷ *Minimize costly downtime caused by reworks*
- ▷ *Non-destructive test method – will not damage stainless steel piece when used properly\**

\*Requires neutralization with SURFOX-N / FT 100



Available on the iPhone  
**App Store**



Easy login from your phone or tablet. Simply download the free SURFOX app on the Apple store.



Set the probe on your surface and click “start” to begin the process and automatically sync.

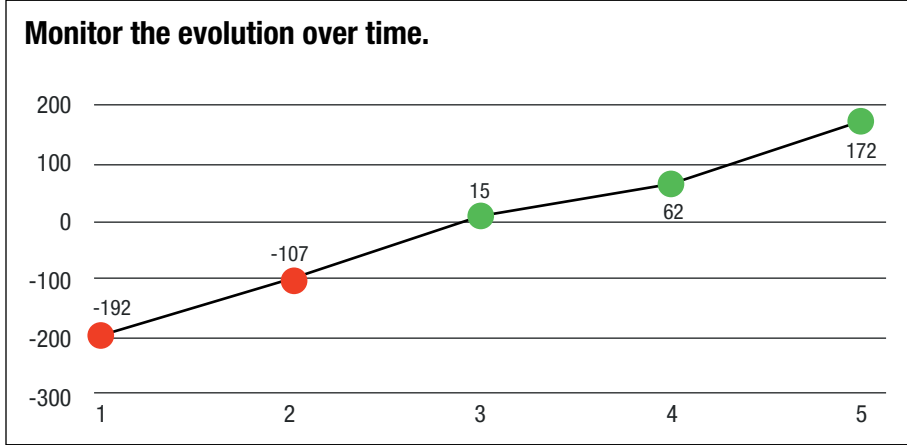


Results are measured and stored within seconds.





Access your projects and data easily through the Walter Cloud without the need for printouts or land connections. Simply go on [www.smart.surfox.com](http://www.smart.surfox.com)



*Reduce unnecessary downtime caused by rework. Guarantee your customers that parts are protected from rust and corrosion.*

*Provide documented proof of passivation once completed!*

## SURFOX™ SMART PASSIVATION TESTER

Order No.: 54-T 011

### Accessories

Replacement cartridge  
White Felt Tip (Pkg. 5)

**Order no.**  
54-A 050  
54-B 046



*Attach copies and other related documents to your project files and certify your work to your customers in an efficient manner.*



Video available at The Walter Net  
[www.youtube.com/user/TheWalterNet](http://www.youtube.com/user/TheWalterNet)



W. WALTER  
E-WELD 3



# ANTI-SPATTER SOLUTIONS

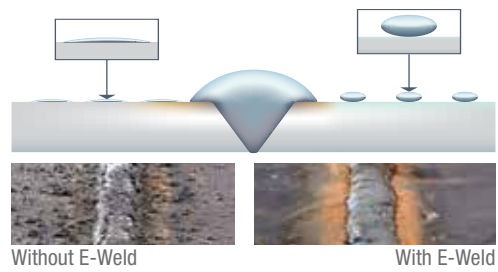
## Why use anti-spatter solutions?

When small pieces of molten metal fly off the welding arc, the spatter, or slag, lands on weld surfaces around seams. As it cools and hardens on the surface on which it lands, it can be difficult to remove. Abrasives or chisels will then need to be utilized to remove the spatter to ensure a smooth surface for finishing the workpiece. However, by leveraging an anti-spatter solution before you begin welding, you can eliminate the time and cost of using abrasives or tools to remove weld spatter.

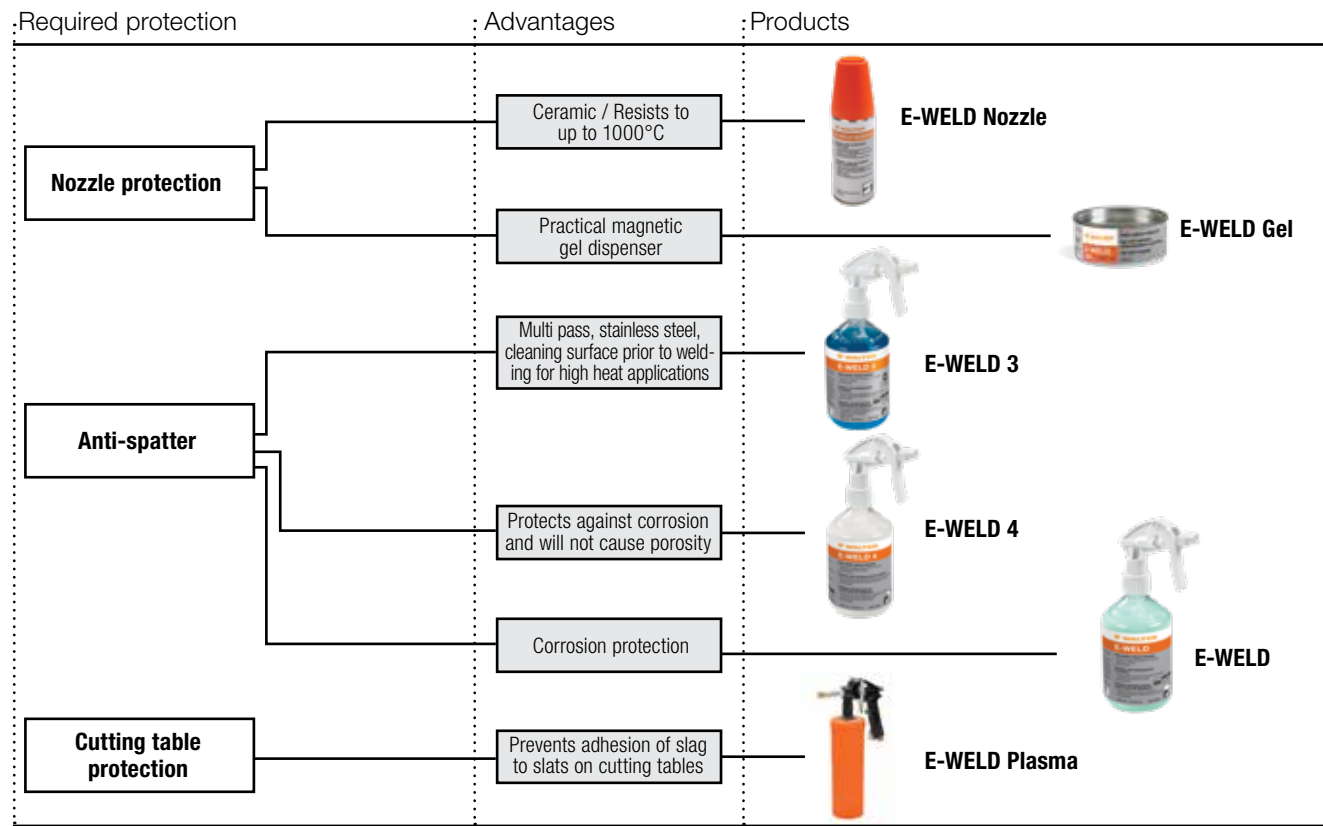


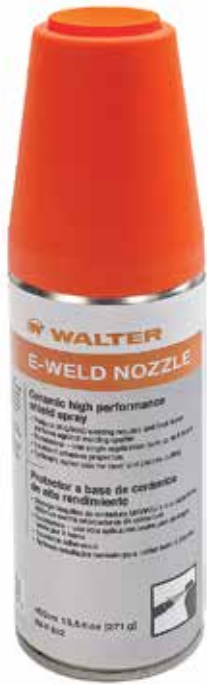
## Why use Walter E-Weld anti-spattersolutions?

Walter has developed a safer and healthier line of anti-spatter solutions to prevent spatter from adhering to surfaces. Our anti-spatter solutions are biodegradable, nonflammable and non toxic so that you can improve your work process without sacrificing worker health and safety.



## Selection chart





## E-WELD NOZZLE™

Total nozzle protection for best efficiency

Extend the life of welding nozzles and reduce downtime spent scraping out spatter with E-WELD Nozzle™. This highly concentrated anti-spatter evenly coats the exterior and interior surface of your welding nozzle to prevent spatter from adhering to the nozzle. This prevents obstructions and allows the gas to flow freely, resulting in a higher quality weld. This is an extremely economical solution, as the easy applicator dispenses a thin layer that can provide protection for up to 8 hours. This is an ideal solution for MIG welding, plasma cutting and laser cutting as the E-WELD Nozzle™ can withstand high temperatures (up to 1000° C) and reduce your consumable spend.

- ▷ *No weld contamination*
- ▷ *Helps prevent weld porosity*
- ▷ *No time lost on scraping spatter from nozzle prior to welding*
- ▷ *Economical*
- ▷ *Improves weld quality and reduces rejection rate*
- ▷ *Only a thin layer needed (up to 100 applications per can)*
- ▷ *Extends lifetime of nozzles*
- ▷ *Eliminates the frequent need for spatter removal and eventual replacement*
- ▷ *Superior life and more solution per can compared to competitive products*



*Nozzle using E-WELD Nozzle*



*Nozzle fully clogged (not using E-WELD Nozzle)*

Unique self-dispensing applicator easily dispenses highly concentrated ceramic coating

**PROTECTS**  
WELDING NOZZLES FOR UP  
TO 8 HOURS



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 fl. oz.	53-F 212	F-156E	6
Applicator			53-L 121		1
Aerosol and applicator			53-F 912	F-156E	6

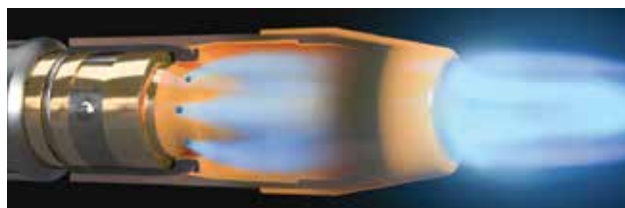
**Color:** Orange

## NOZZLE PROTECTION TO AVOID SPATTER BUILD-UP

### With E-WELD Nozzle™



E-WELD Nozzle coats the exterior and interior of the nozzle, the contact tip and the diffuser to avoid spatter from adhering, thus preventing obstruction.



This allows the gas to flow freely and heat the wire consistently.



End-result is a consistent, good quality weld which results in virtually no rejected pieces.

### Without E-WELD Nozzle™



During the welding process, welding nozzles and tips get clogged with hot spatter which fuses to the nozzle, creating obstruction. This prevents the shielding gas to flow freely and heat the wire evenly.



The end-result is an inconsistent, poor quality weld with a higher rejection rate.



**Results in virtually no rejected pieces!**



## E-WELD GEL™

Anti-spatter gel

Superior anti-spatter gel for protecting the interior and exterior of welding nozzles and contact tips.

### Benefits

- ▷ Extends welding torch life
- ▷ Fast, easy cleaning of nozzles and contact tips

### Features

- ▷ Free of chlorinated compounds and silicone
- ▷ Odorless
- ▷ Packaging height is designed to prevent clogging of gas diffusers in welding nozzles



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Metal tin	200 g	7.0 oz	53-F 103	L-12E	12

**Color:** Translucent

*Magnetic tin "sticks" to steel work tables and vertical surfaces*

# E-WELD NOZZLE

Total nozzle protection for up to 8 hours!

- **UNIQUE APPLICATOR** ensures a thin, even protective coat.
- Extends nozzle life.
- Perfect for all types of welding, resists temperatures up to **1000 °C**.



Spatter build up obstructs gas flow, resulting in inconsistent weld quality.



Thin layer of E-Weld Nozzle ensures gas flows freely for a clean, high quality weld.



## E-WELD PLASMA™

Long lasting protection for laser and plasma cutting tables

E-WELD Plasma™ is a ceramic anti-spatter solution that is applied to laser and plasma cutting tables to reduce the buildup of slag over time.

This simple preventative measure keeps the slag from adhering to the slats in cutting tables, allowing it to be easily removed before it builds up and becomes problematic. This significantly decreases the amount of time and effort needed to clean slag off cutting tables, which saves you a great deal of labor time – and associated costs – in plant maintenance.

**Now compatible with wet tables.**

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer			53-L 126		1
Liquid	10 kg	22 lbs	53-F 605	L-142E	1

**Color:** White

### **Tech tip!**

Stack multiple cutting tables behind one another and slightly offset them from one another so all the slats on each table are exposed. This will allow you to coat multiple cutting tables at once, saving even more time.

### Benefits

- ▷ Greatly reduces the amount of time required to remove slag from cutting tables
- ▷ Spend less time on equipment maintenance and more time on revenue generating activities
- ▷ Can also be applied to other equipment that is exposed to weld spatter or slag
- ▷ Spray gun applicator dispenses a thin, even layer to help prevent wasteful over application
- ▷ Can be applied to wet or dry cutting tables

### Features

- ▷ Ceramic formula provides long lasting protection, even in the presence of extreme heat
- ▷ Spray gun applicator allows you to quickly and easily dispense the product across large surface areas
- ▷ Each 10 kg container provides enough antispatter to cover 50-100 m<sup>2</sup> (square meters)
- ▷ E-WELD Plasma can be painted on manually or sprayed on with the applicator; just stir the solution prior to use
- ▷ Use a degreaser like SURFOX Pre-Weld to clean slats prior to use to ensure a strong, adhesive coating



## E-WELD™

General purpose anti-spatter emulsion

E-WELD is a safe, natural solution that protects the workpiece from weld spatter to keep you from having to perform time-consuming, costly rework.

### Features

- ▷ Does not interfere with painting process
- ▷ VOC-free, solvent-free and silicone-free, biodegradable, non-flammable
- ▷ Formulation based on natural plant extracts
- ▷ Odorless
- ▷ Effective welding amperage range: 100-225 A
- ▷ Contains temporary corrosion inhibitors



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.55 oz	53-F 002	L-10E	12
Sprayer	500 ml	16.9 oz	53-F 203	L-21E	12
Liquid	3.78 L	1 gal	53-F 205	L-21E	1
Liquid	20 L	5.2 gal	53-F 207	L-21E	1
Liquid	208 L	55 gal	53-F 208	L-21E	1

Color: Milky green

### Tech tip!

Only requires a thin protective film to prevent spatter adhesion.



## E-WELD 3™

High temperature anti-spatter solution

E-WELD 3 is a high performance anti-spatter solution that both cleans the workpiece and protects it from high energy spatter, eliminating an extra step in the welding process while avoiding costly rework. E-WELD 3 is often the preferred solution for use on stainless steel.

NSF category P1, registration #145451

### Benefits

- ▷ Cleans and degreases weld area
- ▷ Allows multi pass welding
- ▷ Does not interfere with paint adhesion

### Features

- ▷ VOC-free, solvent-free, silicone-free and biodegradable
- ▷ Odorless
- ▷ Effective amperage range: 100 – 400 A



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 oz	53-F 253	L-46E	12
Liquid	3.78 L	1 gal	53-F 255	L-46E	1
Liquid	20 L	5.2 gal	53-F 257	L-46E	1
Liquid	208 L	55 gal	53-F 258	L-46E	1

Color: Clear blue





## E-WELD 4™

Premium anti-spatter emulsion

E-WELD 4 is a unique anti-spatter solution which protects workpieces from the adherence of spatter. With the addition of special natural ingredients, E-WELD 4 retracts in the presence of heat, leaving the welding area free of liquid. This means that unlike competitive products, E-WELD 4 is guaranteed not to cause weld porosity or cracking, even when overapplied to work surfaces.

### Benefits

- ▷ Will not contribute to weld porosity
- ▷ No weld cracking
- ▷ Corrosion resistant
- ▷ Does not interfere with paint adhesion

### Features

- ▷ VOC-free, solvent-free, silicone-free and biodegradable
- ▷ Formulation based on natural plant extracts
- ▷ Pleasant citrus scent
- ▷ Effective welding amperage range: 100 – 225 A



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 oz	53-F 403	L-147E	12
Liquid	3.78 L	1 gal.	53-F 405	L-147E	1
Liquid	20 L	5.2 gal.	53-F 407	L-147E	1
Liquid	208 L	55 gal.	53-F 408	L-147E	1

Color: White



### Tech tip!

Best choice for welding on aluminum surfaces.



## INDUSTRIAL PUMP SPRAYERS

Tough industrial sprayers designed to quickly and effectively dispense anti-spatter products. The spray pattern can easily be adjusted from a pin point jet for accurate product dispensing to a wide fan for greater surface coverage. These thick walled polyethylene bottles are GHS compliant and feature a wide neck for easy refilling.

Description	Size		Order No.	Std. Pkg.
	Metric	US Gal		
E-Weld	900 ml	30.4 oz	53-L 101	1
E-Weld 3	900 ml	30.4 oz	53-L 105	1
E-Weld 4	900 ml	30.4 oz	53-L 107	1



## REFILLABLE TRIGGER SPRAYERS

Sprayers equipped with precision mechanism – guarantees minimal constant spray mist / no dripping. Clearly identified with product specific labels showing product features, GHS information and directions for use.

Description	Size		Order No.	Std. Pkg.
	Metric	US Gal		
E-Weld	500 ml	16.9 oz	53-L 321	1
E-Weld 3	500 ml	16.9 oz	53-L 320	1
E-Weld 4	500 ml	16.9 oz	53-L 338	1





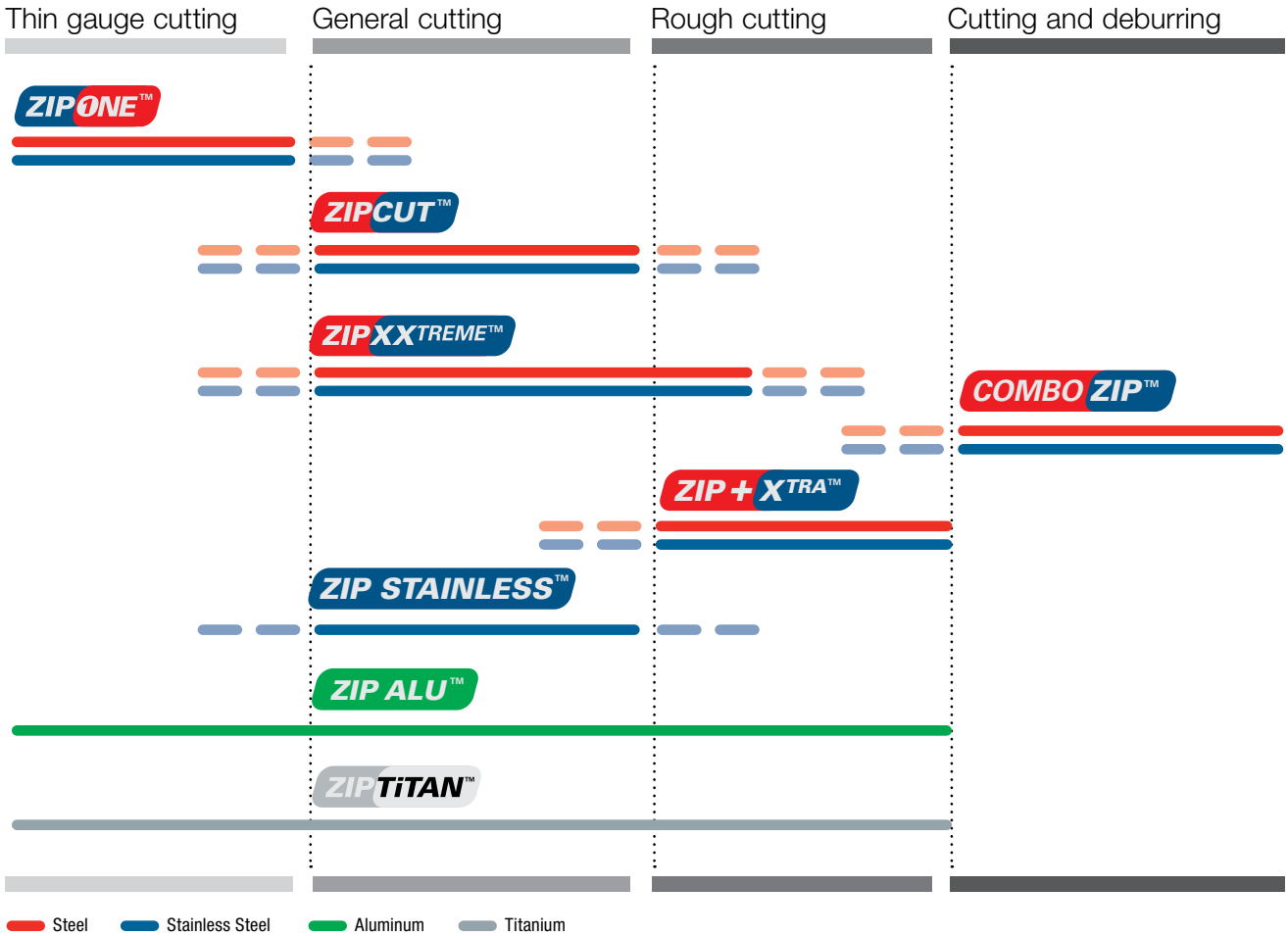
A close-up photograph of a worker in a blue denim shirt and black safety harness, wearing a black helmet and clear face shield. The worker is using a circular saw to cut a metal beam, with a large spray of orange sparks flying from the blade. The worker's left hand is on the saw handle, and their right hand is on the metal beam. The background is a blurred industrial setting.

02

CUTTING

# ZIP FAMILY PRODUCTS AT A GLANCE

## RECOMMENDED BY TYPE OF USAGE



## WALTER INDUSTRIAL GLOVES

Protective, sleek, and tight fitting for comfort. Walter's newly-designed work gloves are made to last in the toughest applications. They are made of 100% Black Goatskin leather, with a neoprene inserts that reduces vibration. The thumb curve is made with Kevlar™, a natural anti-slip solution. Simply put, these gloves are the toughest and most comfortable for demanding industrial applications.

Large  
Extra-Large

Order No.: 30-B 093  
Order No.: 30-B 095

# ZIPCUT FEATURES

## Why are Walter thin cut-off wheels the best in the industry?



### Rib Design

Walter's rib design features raised ribs to reduce friction on the surface, for a freer and cooler cut. With reduced side friction, the cut-off wheel will cut faster, last longer and offer peak performance.

### Exclusive Packaging

Walter's cut-off wheels are sold in a sturdy, unique and reusable plastic container that keeps each wheel in the same condition as when it left the factory thereby enhancing performance, safety, and durability.

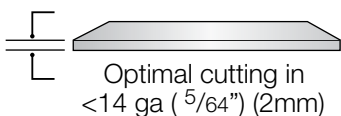


### Triple Reinforcement Combo Zip™

3 layers of reinforcement and metal cladding on the cut-off wheel's hub provides maximum safety. This feature allows the cut-off wheel to bear the force of lateral pressure and allow users to light grind/deburr in a safe manner.

### Type 27 Narrow Crown and Metal Cladding

Exclusive patented technology that incorporates a metal cladding in the center hub for added safety, and allows for a deeper cutting depth, extending the life of the cutting wheel.



### Ultra-Thin Zip One™

Walter's thinnest cut-off wheel at  $\frac{1}{32}$ " is designed for maximum precision cutting. Thanks to an innovative technology exclusive to Walter, ZIP One is not only long lasting, but also allows you to more accurately cut sheet metal without creating burrs.

JUST  
 **$\frac{1}{32}$ "**  
THICK

### Spin-On Wheels for Easy Mounting

Changing your cut-off wheels is quicker and easier than ever before, which results in minimal downtime during wheel change out and less vibration when cutting.



OUR BEST JUST GOT BETTER

# ZIP STAINLESS™

Cool cuts. High performance.

Best overall  
performance on  
stainless steel.



Video available at *The Walter Network*  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

 **WALTER**  
Surface Technologies

Only the best.™

## ZIP XXTREME™

The longest lasting  $\frac{3}{64}$ " thin cut-off wheel

Walter continuously develops new technology to improve cut-off wheel performance. ZIP XXTREME™ has been specially engineered using exclusive new manufacturing techniques to be the longest lasting cut-off wheel, boasting the lowest cost per cut compared to all other  $\frac{3}{64}$ " thin cut-off wheels. Save time working on your projects, and save money using ZIP XXTREME™ by getting the job done more efficiently. These cut-off wheels last up to 20% longer than other  $\frac{3}{64}$ " cut-off wheels.

- ▷ **Extreme life for more cuts per wheel**
- ▷ **Lowest cost per cut in the industry**
- ▷ **Extreme cutting speed both on steel and stainless for maximum productivity**

### TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	$\frac{3}{64}$ " (.045")	$\frac{7}{8}$ "	11-T 044	A-60	13,300	25	400
5"	$\frac{3}{64}$ " (.045")	$\frac{7}{8}$ "	11-T 054	A-60	12,200	25	400
6"	$\frac{3}{64}$ " (.045")	$\frac{7}{8}$ "	11-T 064	A-36	10,200	25	200
7"	$\frac{1}{16}$ " (.062")	$\frac{7}{8}$ "	11-T 074	A-36	8,600	25	100

**GET 33% MORE CUTS  
WHEN COMBINED WITH  
OUR MINI-PLUS!  
See page 162.**



## ZIP TITAN™

Best solution for cutting titanium and brass

For the best solution when working with titanium and brass materials, trust ZIP TITAN™. It cuts through titanium and brass without overheating these metals, delivering a longer lasting cut-off wheel while preserving the mechanical properties and surface integrity of the material being cut. Get more cuts per wheel and faster, freer cuts on some of the industry's most challenging metals, courtesy of ZIP TITAN™.

- ▷ **Longer life and optimal cutting performance on titanium and brass**
- ▷ **Unique formulation which prevents metal from overheating 100%**

### TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	$\frac{3}{64}$ " (.045")	$\frac{7}{8}$ "	11-H 042	C-60	13,300	25	400
5"	$\frac{3}{64}$ " (.045")	$\frac{7}{8}$ "	11-H 052	C-60	12,200	25	400
6"	$\frac{3}{64}$ " (.045")	$\frac{7}{8}$ "	11-H 062	C-36	10,200	25	200
7"	$\frac{1}{16}$ " (.062")	$\frac{7}{8}$ "	11-H 072	C-36	8,600	25	100



**INDUSTRY'S** LEADING AND MOST TRUSTED WHEEL

**ZIPCUT™**

Setting the industry standard for cut-off wheels



ZIPCUT™ is the highest performing cut-off wheel on the market. Faster, cooler, freer cutting and heavily reinforced for added safety, ZIPCUT provides premium performance while resisting twisting and bending. This allows for a true, straight cut every time. The end result is a wheel that improves worker safety while delivering unrivaled value.

**TYPE 1**



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/64" (.045")	7/8"	11-T 042	A-60	13,300	25	400
5"	3/64" (.045")	7/8"	11-T 052	A-60	12,200	25	400
6"	3/64" (.045")	7/8"	11-T 062	A-60	10,200	25	200
7"	1/16" (.062")	7/8"	11-T 072	A-30	8,600	25	100
9"	* 5/64" (.078")	7/8"	11-T 092	A-30	6,600	25	100

\* Must be used with 3" clamping flange No. 30-B 022 (according to ANSI B7.1)



**TYPE 1**



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
7"	1/16" (.062")	5/8"	11-T 070	A-30	8,600	25	100
8"	1/16" (.062")	5/8"	11-T 080	A-30	7,600	25	100

**TYPE 27**



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/64" (.045")	7/8"	11-T 142	A-60	13,300	25	200
5"	3/64" (.045")	7/8"	11-T 152	A-60	12,200	25	200
6"	3/64" (.045")	7/8"	11-T 162	A-60	10,200	25	200
7"	1/16" (.062")	7/8"	11-T 172	A-30	8,600	25	100
9"	5/64" (.078")	7/8"	11-T 192	A-30	6,600	25	100

▷ Significantly more cuts than the competition\*

▷ Less friction and faster cutting

\* According to comparative test measurements performed in a lab environment.



Video available at The Walter Network  
www.youtube.com/user/TheWalterNetwork

**Accessory**

Description	Order No.
Reducer bushing 7/8" to 5/8"	10-A 984

**Mounting accessories**

Complete set for a flush fit and minimal spindle exposure beyond the clamping nut, for other brands of grinders with: 5/8"-11 spindles

**30-B 021**

Thick backing flange for a flush fit and minimal exposure of spindle beyond the clamping nut for Walter grinders with: 5/8"-11 spindles

**30-B 017**

Thick backing flange for a flush fit and minimal exposure of spindle beyond the clamping nut for Walter grinders with: M14x2.0 spindles

**30-B 016**

Clamping flanges set to mount 9" cut-off wheels on 5/8"-11 spindles

**30-B 022**



## ZIPCUT™ SPIN-ON

High performance cutting with SPIN-ON system

A Walter exclusive, our SPIN-ON mounting system takes your productivity to the next level with a 5/8"-11 threaded hub that reduces vibration and reduces the time spent on wheel change outs.

- ▷ *Perfectly centered wheel for total operator comfort*
- ▷ *Vibration-free cutting for maximum life, safety and productivity*



### TYPE 27S **SPIN-ON**

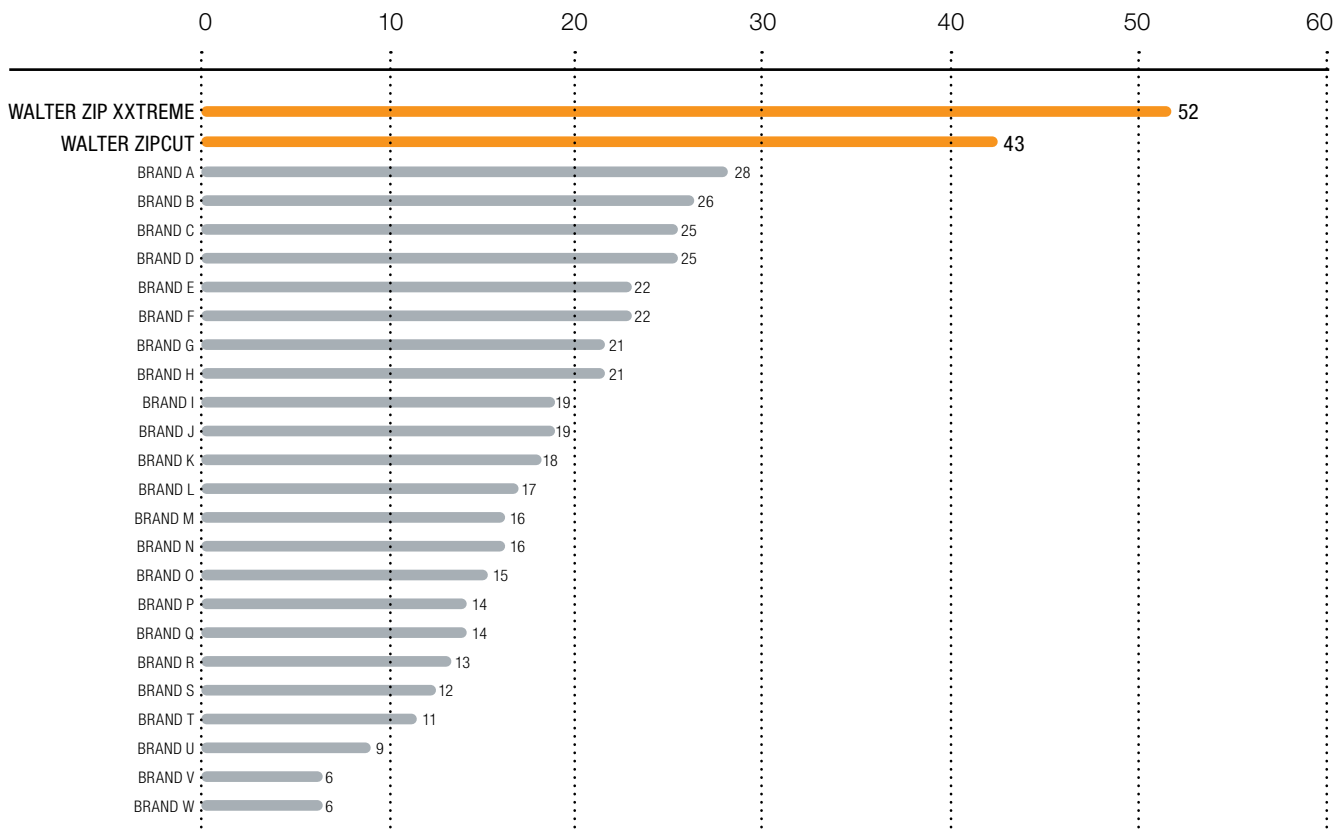


Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/64" (.045")	5/8"-11	11-T 342	A-60	13,300	25	100
5"	3/64" (.045")	5/8"-11	11-T 352	A-60	12,200	25	100
6"	3/64" (.045")	5/8"-11	11-T 362	A-60	10,200	25	200

**QUICK AND EASY**  
WHEEL CHANGE FOR  
MINIMUM DOWNTIME

## ZIPCUT™ - Comparison tests of 5" cutting wheels

Total number of cuts on 1/4" hot rolled steel plate



## ZIP+ XTRA™

Performance cutting in thicker metal

ZIP+ XTRA™ has a reinforced rib design for straighter cuts on metal that measures 1/8" thick or thicker. This feature also helps to cool the workpiece, preventing the large burrs and material discoloration often produced by competitive 1/16" cut-off wheels.



### TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/16" (.062")	7/8"	11-T 242	A-36	13,300	25	400
5"	1/16" (.062")	7/8"	11-T 252	A-36	12,200	25	400
6"	1/16" (.062")	7/8"	11-T 262	A-36	10,200	25	200
7"	5/64" (.078")	7/8"	11-T 272	A-36	8,600	25	100
9"	3/32" (.094")	7/8"	11-T 292	A-36	6,600	25	100

\* Must be used with 3" clamping flange No. 30-B 022 (according to ANSI B7.1)

### TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/16" (.062")	7/8"	11-T 453	A-36	13,300	25	200
5"	1/16" (.062")	7/8"	11-T 503	A-36	12,200	25	200
6"	1/16" (.062")	7/8"	11-T 603	A-36	10,200	25	200

**CHOOSE ZIP+ XTRA™**  
FOR THE TOUGHEST PROJECTS!

- ▶ Excellent performance for cutting material 1/8" and thicker
- ▶ 4 1/2" and 5" Type 27 wheels feature an exclusive narrow crown design and metal hub cladding
- ▶ The preferred wheel for flush cutting in confined spaces



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

## TOUGH CUT™

For the toughest, most demanding cutting applications

These wheels cut fast and free without binding and maintain high RPM for a clean cut and superior all-around performance.



### TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/32"	7/8"	11-R 042	A-30	13,300	25	200
5"	3/32"	7/8"	11-R 052	A-30	12,200	25	200
6"	3/32"	7/8"	11-R 062	A-30	10,200	25	200
7"	3/32"	7/8"	11-R 072	A-30	8,600	25	100
9"	3/32"	7/8"	11-R 092	A-30	6,600	25	100

\* Must be used with 3" clamping flange No. 30-B 022 (according to ANSI B7.1)



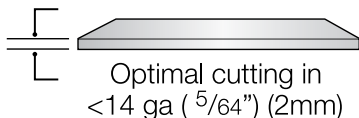
#### Accessory

Description	Order No.
Reducer bushing 7/8" to 5/8"	10-A 984





Recommended: 8 ga (3/16") (4 mm)



- ▷ **Fast, free precision cuts**
- ▷ **Clean cutting for less rework**
- ▷ **Unique mix of abrasive grains ensures cool cutting for less discoloration and warping**
- ▷ **Fe-free formulation – guaranteed not to contaminate stainless steel**
- ▷ **Perfect for plunge cutting applications**

## ZIP ONE™

High performance cut-off wheel for thin gauge metal

ZIP ONE™ offers the quickest cuts and longest life in an ultra-thin 1/32" wheel. It is cool cutting to provide a burr-free cut with minimal discoloration. Best of all, it cuts extremely quickly and without vibration, making your job safer and easier when working with thin gauge steel or stainless steel.

### EXTRA THIN FOR ULTRA PRECISE CUTTING

#### TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/32" (.035)	7/8"	11-T 542	ZA-60	13,300	25	400
5"	1/32" (.035)	7/8"	11-T 552	ZA-60	12,200	25	400



#### TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/32" (.032")	7/8"	11-T 642	ZA-60	13,300	25	400
5"	1/32" (.032")	7/8"	11-T 652	ZA-60	12,200	25	400
6"	1/32" (.035")	7/8"	11-T 662	ZA-60	10,200	25	200
7"	3/64" (.045")	7/8"	11-T 672	ZA-60	8,600	25	100

### YouTube

Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)



Check out our high efficiency cordless ZIPCUTTER! Ideal for jobs on site or remote locations. See page 160.





- ▶ Free of iron, sulfur and chlorine so as not to contaminate stainless steel
- ▶ Type 27 allows more clearance for flush cutting
- ▶ Metal hub cladding for extra strength, control and safety

## ZIP STAINLESS™

Guaranteed not to contaminate stainless steel

The new and improved Zip Stainless™ is better than ever. This cut-off wheel is free of iron, sulfur and chlorine, ensuring it will not contaminate stainless steel or other nickel alloyed steels. It offers cool, free cuts and the best overall performance on nickel alloyed steels.

### TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/64" (.045")	7/8"	11-F 042	A-60	13,300	25	400
5"	3/64" (.045")	7/8"	11-F 052	A-60	12,200	25	400
6"	3/64" (.045")	7/8"	11-F 062	A-60	10,200	25	200
7"	1/16" (.062")	7/8"	11-F 072	A-46	8,600	25	100
9"	5/64" (.078")	7/8"	11-F 092	* A-46	6,600	25	100

\* Must be used with 3" clamping flange No. 30-B 022 (according to ANSI B7.1)

### TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/64" (.045")	7/8"	11-F 142	A-60	13,300	25	200
5"	3/64" (.045")	7/8"	11-F 152	A-60	12,200	25	400
6"	3/64" (.045")	7/8"	11-F 162	A-60	10,200	25	200
7"	1/16" (.062")	7/8"	11-F 172	A-46	8,600	25	100
9"	5/64" (.078")	7/8"	11-F 192	A-46	6,600	25	100



*\*Best wheel life and extra fast cutting in aluminum and other non-ferrous alloys*



## ZIP ALU™

Fast and free cutting of aluminum without clogging

ZIP ALU™ is designed to provide long life and quick cuts on aluminum and other non-ferrous alloys. Our special abrasive blend provides smooth, cool cuts and is guaranteed not to clog, saving you time and money.

### TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/64" (.045")	7/8"	11-U 042	A-60-ZIP-ALU	13,300	25	400
5"	3/64" (.045")	7/8"	11-U 052	A-60-ZIP-ALU	12,200	25	400
6"	3/64" (.045")	7/8"	11-U 062	A-60-ZIP-ALU	10,200	25	200
7"	1/16" (.062")	7/8"	11-U 072	A-30-ZIP-ALU	8,600	25	100

### TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/64" (.045")	7/8"	11-U 142	A-60-ZIP-ALU	13,300	25	400
5"	3/64" (.045")	7/8"	11-U 152	A-60-ZIP-ALU	12,200	25	400
6"	3/64" (.045")	7/8"	11-U 162	A-60-ZIP-ALU	10,200	25	200
7"	1/16" (.062")	7/8"	11-U 172	A-30-ZIP-ALU	8,600	25	100



- ▷ Cutting and deburring combined for less wheel changeover and greater productivity
- ▷ Reinforced like a grinding wheel to improve operator safety
- ▷ ZIP formulation guarantees fast cutting time and long life
- ▷ Equipped with a metal protective hub for extra strength, control and safety

## COMBO ZIP

Fast, safe cutting and deburring with one wheel

Safely cut and deburr with just one wheel. Combo Zip™ is the perfect fit when operators don't want the hassle of having to change out wheels to deburr, notch or chamfer immediately after cutting. Save time and improve worker safety with Combo Zip™.

### TYPE 27

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/64" (.078")	7/8"	11-T 842	A-60	13,300	25	400
5"	5/64" (.078")	7/8"	11-T 852	A-60	12,200	25	200
6"	5/64" (.078")	7/8"	11-T 862	A-60	10,200	25	200



### TYPE 27S

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/64" (.078")	5/8"-11	11-T 844	A-60	13,300	25	200
5"	5/64" (.078")	5/8"-11	11-T 854	A-60	12,200	25	200

SPIN-ON



**THREE LAYERS**  
OF REINFORCEMENT AND  
METAL CLADDING FOR  
MAXIMUM SAFETY



YouTube

Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)



## EXCELLENT CUTTING SPEED AND WHEEL LIFE

- ▶ *Fast, cool and free cutting, allowing the operator to work with minimal pressure for best control*
- ▶ *Superior life and cutting speed compared to competitive wheels*
- ▶ *24 grit wheels for faster cutting speeds*
- ▶ *60 grit wheels for longer life*



Video available at *The Walter Network*  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)



## ZIP™

Performance cutting and grinding with straight shaft and die grinders

ZIP™ wheels offer the best performance available on straight shaft and die grinders. They are specially formulated to run cool for maximum life and are guaranteed not to contaminate stainless steel.

For notching applications, it is recommended that you use  $\geq \frac{1}{8}$ ".

For grinding applications,  $\frac{1}{2}$ " is recommended.

### 2" TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
2"	$\frac{1}{32}$ "	$\frac{1}{4}$ "	11-L 202	A-24	30,600	25	200
2"	$\frac{1}{32}$ "	$\frac{3}{8}$ "	11-L 203	A-60	30,600	25	200
2"	$\frac{1}{16}$ "	$\frac{5}{16}$ "	11-L 211	A-24	30,600	25	200
2"	$\frac{1}{16}$ "	$\frac{1}{4}$ "	11-L 212	A-24	30,600	25	200
2"	$\frac{1}{16}$ "	$\frac{3}{8}$ "	11-L 213	A-24	30,600	25	200
2"	$\frac{1}{8}$ "	$\frac{5}{16}$ "	11-L 221	A-24	30,600	25	200
2"	$\frac{1}{8}$ "	$\frac{3}{8}$ "	11-L 223	A-24	30,600	25	200
2"	$\frac{1}{4}$ "	$\frac{5}{16}$ "	11-L 231	A-24	30,600	25	200
2"	$\frac{1}{4}$ "	$\frac{3}{8}$ "	11-L 233	A-24	30,600	25	200
2"	$\frac{1}{2}$ "	$\frac{5}{16}$ "	11-L 251	A-24	30,600	25	200
2"	$\frac{1}{2}$ "	$\frac{3}{8}$ "	11-L 253	A-24	30,600	25	200

### 2 1/2" TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
2 1/2"	$\frac{1}{16}$ "	$\frac{1}{4}$ "	11-L 262	A-24	30,350	25	200
2 1/2"	$\frac{1}{16}$ "	$\frac{3}{8}$ "	11-L 263	A-24	30,350	25	200

### 3" TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
3"	$\frac{1}{32}$ "	$\frac{1}{4}$ "	11-L 302	A-60	25,470	25	200
3"	$\frac{1}{16}$ "	$\frac{1}{4}$ "	11-L 312	A-24	25,470	25	200
3"	$\frac{1}{8}$ "	$\frac{1}{4}$ "	11-L 322	A-24	25,470	25	200
3"	$\frac{1}{32}$ "	$\frac{3}{8}$ "	11-L 303	A-60	25,470	25	200
3"	$\frac{1}{16}$ "	$\frac{1}{4}$ "	11-L 316	A-60	25,470	25	200
3"	$\frac{1}{16}$ "	$\frac{3}{8}$ "	11-L 317	A-60	25,470	25	200
3"	$\frac{1}{16}$ "	$\frac{3}{8}$ "	11-L 313	A-24	25,470	25	200
3"	$\frac{1}{8}$ "	$\frac{3}{8}$ "	11-L 323	A-24	25,470	25	200
3"	$\frac{1}{4}$ "	$\frac{3}{8}$ "	11-L 333	A-24	25,470	25	100
3"	$\frac{1}{2}$ "	$\frac{3}{8}$ "	11-L 353	A-24	25,470	25	100

## 4" TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4"	1/32"	1/4"	11-L 402	A-60	19,100	25	200
4"	1/32"	3/8"	11-L 403	A-60	19,100	25	200
4"	1/32"	1/4"	11-L 406	A-24	19,100	25	200
4"	1/16"	1/4"	11-L 412	A-24	19,100	25	200
4"	1/16"	3/8"	11-L 413	A-24	19,100	25	200
4"	1/16"	3/8"	11-L 417	A-60	19,100	25	200
4"	1/8"	3/8"	11-L 423	A-24	19,100	25	200
4"	1/4"	3/8"	11-L 433	A-24	19,100	25	100
4"	1/2"	3/8"	11-L 453	A-24	19,100	25	100
4"	1/32"	5/8"	11-L 405	A-60	19,100	25	200
4"	1/16"	5/8"	11-L 415	A-24	19,100	25	200

- ▶ Ideal for flush cutting
- ▶ Metal hub cladding for extra strength and safety



## 3" &amp; 4" TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
3"	1/32"	3/8"	11-L 308	* A-60	25,470	25	200
4"	1/32"	3/8"	11-L 408	** A-60	19,100	25	200

\* Use with 1/4" mandrel 11-L 007

\*\* Use with 1/4" mandrel 11-L 003

## ZIP ALU™

Fast and free cutting of aluminum without clogging

Thin cut-off wheels specially formulated to cut a wide variety of aluminum, aluminum alloys and non-ferrous metals without clogging.



- ▶ Best wheel life and extra fast cutting on aluminum

## TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
3"	1/32"	3/8"	11-U 303	A-60	25,470	25	200
4"	1/32"	3/8"	11-U 403	A-60	19,100	25	200

## Mounting accessories

## Flush mandrels with 1/4" shaft for wheel thickness up to 1/2"

For 2 and 3" wheels, 1/4" and 3/8" arbor	11-L 007
For 2" wheels, 5/16" arbor	11-L 001
For 3" and 4" wheels, 1/4" arbor	11-L 006
For 3" and 4" wheels, 3/8" arbor	11-L 003

## General purpose mandrels with 1/4" shaft for wheel thickness up to 1/2"

For 2" wheels, 3/8" arbor	11-L 008
For 2" wheels, 5/16" arbor	11-L 002
For 3" and 4" wheels, 3/8" arbor	11-L 004

## With 5/16" shaft

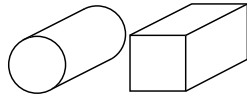
For 3" and 4" wheels, 3/8" arbor	11-L 005
For 3" and 4" wheels, 5/8" arbor	



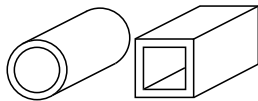
**EXTRA FAST**  
CUTTING ON ALUMINUM  
WITHOUT CLOGGING!



### THE WHEEL OF CHOICE FOR SOLIDS AND STAINLESS TUBES



- ▷ Reinforced center
- ▷ Optimized for use on low power chop saws; reduces load on machine and creates less burrs
- ▷ The wheel of choice for solids and stainless steel tubing



- ▷ Double external reinforcement for extra safety
- ▷ The wheel of choice for tubing and extrusions
- ▷ Longer life for the toughest applications



- ▷ Fast and free cutting on all types of aluminum and non-ferrous metals
- ▷ Unique formulation which prevents clogging to extend wheel life



- ▷ Optimal cutting performance on titanium and brass
- ▷ Unique formulation prevents metal from overheating
- ▷ For portable and stationary saws

## CHOPCUT™

Performance cutting with portable chop saws

These wheels have been developed specifically for use on portable chop saws. They put minimal load on the motor, making them easy on both the operator and the tool. Best of all, CHOPCUT™ wheels deliver quick cuts and exceptional lifespan.



### CHOPCUT

General purpose

TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
12"	3/32"	1"	10-Q 123	A-30	5,100	10	50
14"	3/32"	1"	10-Q 143	A-30	4,400	10	50
16"	7/64"	1"	10-Q 163	A-30	3,800	10	30

### CHOPCUT II

High performance

TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
12"	3/32"	1"	10-P 123	A-30	5,100	10	50
14"	3/32"	1"	10-P 143	A-30	4,400	10	50
16"	7/64"	1"	10-P 163	A-30	3,800	10	30

### CHOPCUT ALU

ALU TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
12"	3/32"	1"	10-L 123	A-30	5,100	10	50
14"	3/32"	1"	10-L 143	A-30	4,400	10	50

### CHOPCUT TITAN

Titanium TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
14"	1/8" (.125")	1"	10-H 143	C-30	4,400	10	50
16"	1/8" (.125")	1"	10-H 163	C-30	3,800	10	30

## RIPCUT™

High performance cutting on stationary cut-off machines

Available in several styles, these heavily-reinforced wheels can tackle anything from thin walled profiles to heavy solids, while providing fast cuts and long life, to give you the lowest cost-per-cut in the industry.



### RIPCUT

General purpose TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
12"	1/8"	1"	10-B 123	A-24	5,100	10	50
14"	1/8"	1"	10-B 143	A-24	4,400	10	30
16"	5/32"	1"	10-B 163	A-24	3,800	10	30
18"	3/16"	1"	10-B 183	A-24	3,400	10	20
20"	3/16"	1"	10-B 203	A-24	3,000	5	10

**FOR THE LOWEST  
COST PER CUT!**

- ▷ *The most versatile wheel*
- ▷ *Cuts thin walled profiles to heavy solids*
- ▷ *The preferred wheel for low power machines (<10 HP)*

### RIPCUT II

High performance TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
12"	1/8"	1"	10-A 123	A-24	5,100	10	50
14"	1/8"	1"	10-A 143	A-24	4,400	10	30
16"	5/32"	1"	10-A 163	A-24	3,800	10	30
18"	3/16"	1"	10-A 183	A-24	3,400	10	20
20"	3/16"	1"	10-A 203	A-24	3,000	5	10
20"	3/16"	40 mm	10-A 206	A-24	3,000	5	10
24"	1/4"	40 mm	10-A 246	A-24	2,550	5	10

- ▷ *Outperforms all other comparable wheels*
- ▷ *Cuts almost anything from thin wall shapes to solid shafts*
- ▷ *For use on high power machines (>10 HP)*

### RIPCUT STAINLESS

Stainless TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
12"	1/8"	1"	10-C 123	A-36	5,100	10	50
14"	1/8"	1"	10-C 143	A-36	4,400	10	30
16"	5/32"	1"	10-C 163	A-36	3,800	10	30
20"	3/16"	1"	10-C 203	A-36	3,000	5	10

- ▷ *Specially formulated to cut all types of stainless and alloyed steels*
- ▷ *Fast and cool cutting with less burrs and discoloration*

#### Accessories

##### Reducer bushings

From	To	Order No.	From	To	Order No.
40 mm	1 1/2"	10-A 992	1"	7/8"	10-A 988
40 mm	1 1/4"	10-A 991	1"	3/4"	10-A 987
40 mm	1"	10-A 990	1"	5/8"	10-A 986
1"	20 mm	10-A 989	1"	1/2"	10-A 985





▷ General purpose cutting of steel and cast iron



- ▷ Designed for cutting of concrete, concrete blocks, stone, asphalt, etc.
- ▷ General purpose cutting of reinforced concrete pipes, ductile iron, PVC and other plastic pipes



- ▷ Made with premium abrasive grains and resin
- ▷ Heavily reinforced for maximum safety and smoothness
- ▷ Railcut II Long Life for longer life and use on softer (new) rail - Best option for hydraulic saws
- ▷ Railcut II Fast Cut for faster cutting and minimal deflection on hardened (used) rail - Best option for gas saws

## PORTACUT™

High speed cutting with gas and electric power saws

These premium wheels stand out as the most reliable cut-off wheels for all on-site cutting jobs. Reinforced for added safety and formulated for an optimal cutting speed and wheel life ratio, PORTACUT™ is the preferred choice for professionals who demand "only the best" in performance and jobsite safety.

### TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
12"	1/8"	20 mm STIHL	11-A 121	A-24	6,300	10	50
12"	1/8"	7/8" PARTNER	11-A 122	A-24	6,300	10	50
12"	1/8"	1"	11-A 123	A-24	6,300	10	50
14"	1/8"	20 mm STIHL	11-A 141	A-24	5,400	10	30
14"	1/8"	7/8" PARTNER	11-A 142	A-24	5,400	10	30
14"	1/8"	1"	11-A 143	A-24	5,400	10	30

### TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
12"	1/8"	20 mm STIHL	11-D 121	C-24	6,300	10	50
12"	1/8"	7/8" PARTNER	11-D 122	C-24	6,300	10	50
12"	1/8"	1"	11-D 123	C-24	6,300	10	50
14"	1/8"	20 mm STIHL	11-D 141	C-24	5,400	10	30
14"	1/8"	7/8" PARTNER	11-D 142	C-24	5,400	10	30
14"	1/8"	1"	11-D 143	C-24	5,400	10	30

## RAILCUT II™

Premium wheels for cutting all types of rail

RAILCUT II™ wheels are designed for fast cutting on all types of rails without glazing. They are heavily reinforced for maximum safety, smooth cutting and more cuts per wheel than ever before.

### RAILCUT II LONG LIFE

#### TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
14"	5/32"	1"	11-V 143	A-24	5,400	10	30
16"	5/32"	1"	11-V 163	A-24	4,700	10	30

### RAILCUT II FAST CUT

#### TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
14"	5/32"	1"	11-V 145	A-24	5,400	10	30
16"	5/32"	1"	11-V 165	A-24	4,700	10	30

#### Accessories

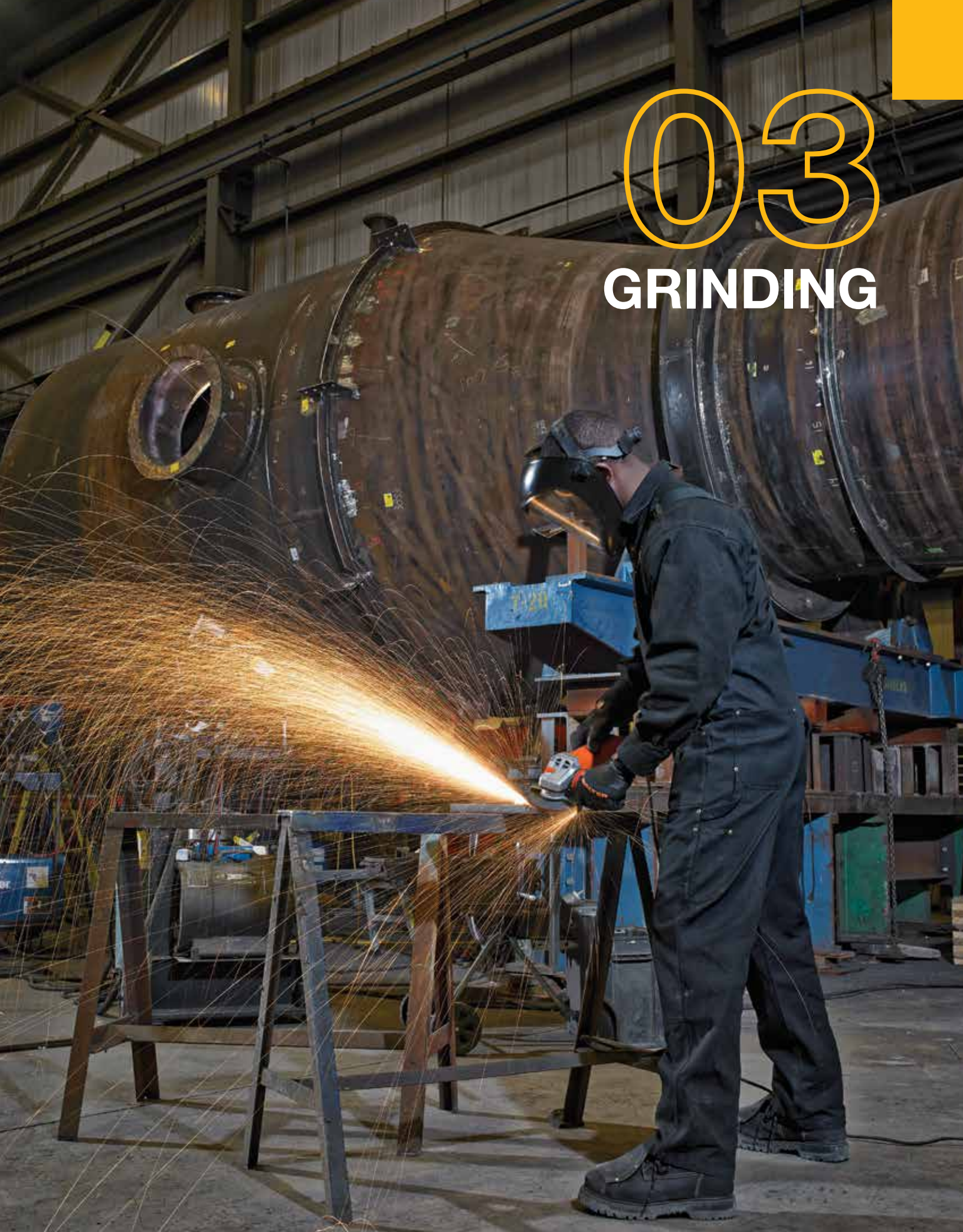
##### Reducer bushings

From	To	Order No.
1"	20 mm	10-A 989
1"	7/8"	10-A 988



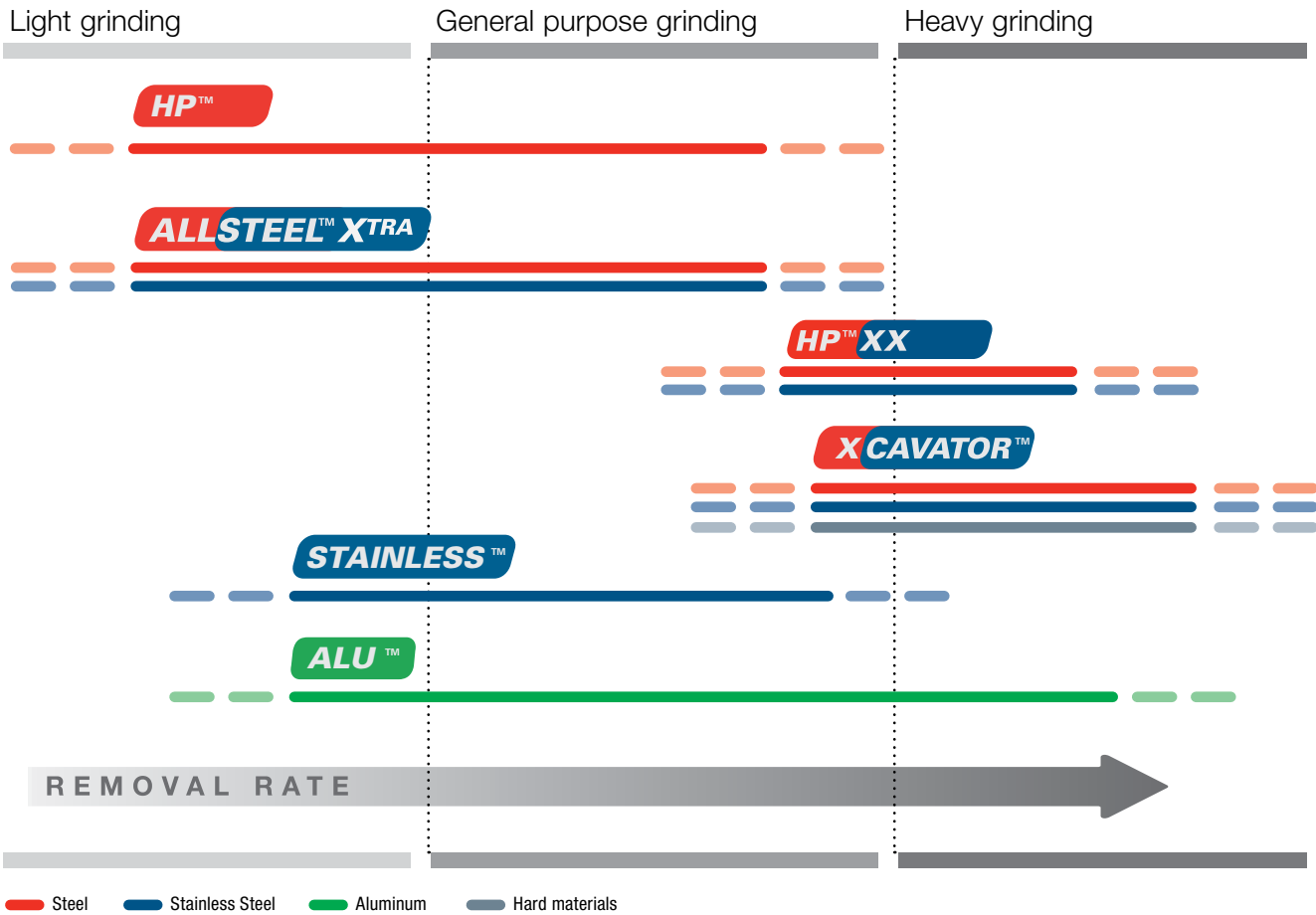
03

GRINDING



# GRINDING PRODUCTS AT A GLANCE

## RECOMMENDED BY TYPE OF USAGE



## EXCLUSIVE TO WALTER

### CONVENIENT AND SAFE!

#### SPIN-ON quick-change mounting

- Ultra resistant built-in threaded arbor for quick and easy disc changes while ensuring operator safety
- All the safety and comfort of using a wheel with a 5/8"-11 metal hub at just a fraction of the price



# XCAVATOR™






WITH COMFORT MAX™ TECHNOLOGY








The most aggressive removal rate on steel, stainless steel and hard metals

Xcavator™ has been redesigned to incorporate the latest innovation in Type 27 depressed center grinding wheels. The new Comfort Max™ Technology in the hub of the wheel helps to minimize vibration, providing the operator with more comfortable, ergonomic work conditions without sacrificing productivity. Xcavator™ delivers premium performance, the highest removal rate in steel and stainless steel and can confront some of the industry's toughest metals, such as tungsten carbide and quenched and tempered steel. Eliminate bottlenecks in your production process and reduce the amount of time spent grinding with the new and improved Xcavator™ with Comfort Max™ Technology, exclusive to Walter Surface Technologies.



**1/4" TYPE 27**   **Fe-S-Cl <0.1%**   

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	7/8"	08-P 460	ZA-16	13,300	25	100
5"	1/4"	7/8"	08-P 510	ZA-16	12,200	25	100
6"	1/4"	7/8"	08-P 600	ZA-16	10,200	25	100
7"	1/4"	7/8"	08-P 700	ZA-16	8,600	25	50
9"	1/4"	7/8"	08-P 900	ZA-16	6,600	25	50

**1/4" TYPE 27S**  **SPIN-ON**  **Fe-S-Cl <0.1%**   

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	5/8"-11	08-P 450	ZA-16	13,300	20	80
5"	1/4"	5/8"-11	08-P 500	ZA-16	12,200	20	80

Always use with flange 30-B 057.

## GUARANTEES

HIGH REMOVAL IN THE INDUSTRY'S TOUGHEST METALS

- ▷ The fastest removal rate, out of any of our grinding wheels
- ▷ Comfort Max™ Technology provides a smoother, more comfortable grinding experience without sacrificing productivity
- ▷ Patented multi-layer technology
- ▷ Advanced design prevents edge flaking for better balance and added safety
- ▷ Optimal power transfer from operator to working surface
- ▷ Fe-Free formulation (guaranteed not to contaminate stainless steel)



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)



## SMOOTH GRINDING WITH AN AGGRESSIVE, CONTROLLED BITE

- ▶ High performance wheels grind off metal quickly
- ▶ Long wheel life
- ▶ The wheel of choice to reduce operator fatigue when grinding for long periods of time



## 1/4" HP™

High performance and exceptional comfort for everyday grinding

HP™ has set new industry benchmarks in general purpose grinding on steel. With an abrasive grain formula engineered for greater hardness and wear resistance, HP™ wheels remove metal faster and with less effort to provide one of the best overall values in grinding.

### 1/4" TYPE 27S SPIN-ON Steel

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	5/8"-11	08-B 450	A-24	13,300	20	80
5"	1/4"	5/8"-11	08-B 500	A-24	12,200	20	80
6"	1/4"	5/8"-11	08-B 630	A-24	10,200	20	80

Always use 1/4" wheels with flange 30-B 057.

### 1/4" TYPE 28S SPIN-ON Steel

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	5/8"-11	08-B 451	A-24	13,300	20	80
5"	1/4"	5/8"-11	08-B 501	A-24	12,200	20	80

Always use 1/4" wheels with flange 30-B 057.

### 1/4" TYPE 27 Steel

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
3"	1/4"	3/8"	08-B 310	A-24	20,000	25	100
4"	1/4"	3/8"	08-B 410	A-24	15,300	25	100
4"	1/4"	5/8"	08-B 400	A-24	15,300	25	100
4 1/2"	1/4"	7/8"	08-B 460	A-24	13,300	25	100
5"	1/4"	7/8"	08-B 510	A-24	12,200	25	100
6"	1/4"	7/8"	08-B 600	A-24	10,200	25	100
7"	1/4"	7/8"	08-B 710	A-24	8,600	25	50
9"	1/4"	7/8"	08-B 910	A-24	6,600	25	50

### 1/4" TYPE 28 Steel

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
7"	1/4"	7/8"	08-B 701	A-24	8,600	25	50
9"	1/4"	7/8"	08-B 901	A-24	6,600	25	50

**GET DOUBLE THE LIFE OF YOUR HP WHEELS WHEN COMBINED WITH THE MINI-PLUS!**  
See page 162.





## 1/8" HP COMBO™

High performance cutting and grinding; all in one wheel

These 1/8" wheels set new standards for performance in combined depressed center wheels (for portable angle grinders). They are specially reinforced to withstand the stress in off-hand cutting operations. Whether cutting, grooving, notching or light grinding, these wheels are guaranteed to give you the longest wheel life, fastest material removal and maximum safety.





**1/8" TYPE 27S**  **SPIN-ON** 

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/8"	5/8"-11	08-B 452	A-30	13,300	25	200
5"	1/8"	5/8"-11	08-B 502	A-30	12,200	25	100
6"	1/8"	5/8"-11	08-B 632	A-30	10,200	25	100

Always use 1/8" wheels with flange 30-B 017 or 30-B 057.

### IDEAL FOR BOTH CUTTING AND GRINDING WORK

- ▷ Hold its cutting edge longer to provide more cuts per wheel
- ▷ Equipped with an exclusive metal hub cladding for extra strength and control
- ▷ Designed for maximum operator safety

**1/8" TYPE 27**  

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
3"	1/8"	3/8"	08-B 312	A-24	20,000	25	200
4"	1/8"	3/8"	08-B 412	A-24	15,300	25	200
4"	1/8"	5/8"	08-B 402	A-24	15,300	25	200
4 1/2"	1/8"	7/8"	08-B 462	A-30	13,300	25	200
5"	1/8"	7/8"	08-B 512	A-30	12,200	25	200
6"	1/8"	7/8"	08-B 602	A-30	10,200	25	100
7"	1/8"	7/8"	08-B 712	A-30	8,600	25	100
9"	1/8"	7/8"	08-B 912	A-30	6,600	25	100



Patented integrated center reinforcement design for extreme toughness



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)



- ▷ Our longest lasting grinding wheel
- ▷ Improved bonding technology and state-of-the-art manufacturing ensure a working life that is unsurpassed

Additional benefits of Spin-On **SPIN-ON**

- ▷ Built-in threaded arbor ensures minimum vibration for maximum operator comfort
- ▷ No need for a pin key



**GET DOUBLE THE LIFE OF YOUR HP XX WHEELS WHEN COMBINED WITH THE PRO 5 GRINDER!**  
See page 163

## HP XX™

Premium grinding at the lowest overall cost

HP XX™ incorporates the latest advances in abrasive grain, bonding and manufacturing technology to substantially lower your total grinding costs. With the longest life in our grinding wheel lineup and extremely aggressive material removal, HP XX™ will allow you to achieve the lowest overall cost of grinding on steel.

### 1/8" TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/8"	7/8"	08-H 452	A-24	13,300	25	200
5"	1/8"	7/8"	08-H 502	A-24	12,200	25	200
6"	1/8"	7/8"	08-H 602	A-24	10,200	25	200
7"	1/8"	7/8"	08-H 702	A-24	8,600	25	100
9"	1/8"	7/8"	08-H 902	A-24	6,600	25	100

### 1/4" TYPE 27S **SPIN-ON**



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	5/8"-11	08-K 450	A-20	13,300	20	80
5"	1/4"	5/8"-11	08-K 500	A-20	12,200	20	80

Always use with flange 30-B 057 listed on page 159.

### 1/4" TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	7/8"	08-H 450	A-24	13,300	25	100
5"	1/4"	7/8"	08-H 500	A-24	12,200	25	100
6"	1/4"	7/8"	08-H 600	A-24	10,200	25	100
7"	1/4"	7/8"	08-H 700	A-24	8,600	25	50
9"	1/4"	7/8"	08-H 900	A-24	6,600	25	50

### 1/4" TYPE 28



Dia.	Thick.	Arbor	Order No.	Grade	Max RPM	Std. Pkg.	Std. Ctn
7"	1/4"	7/8"	08-K 701	A-24-HPS	8,600	25	50
9"	1/4"	7/8"	08-K 901	A-24-HPS	6,600	25	50

All 7" x 1/8", 7" x 1/4", 9" x 1/8" and 9" x 1/4" depressed center wheels are available with threaded hubs 5/8"-11 mounted.

Order numbers for mounted wheels are 5-numbers higher.

For example:  
08-B 712 + 5 = 08-B 717 = 7" x 1/8" x 5/8"-11 A-30-COMBO cutting/grinding wheel.  
Std. Pkg.: 10.

## ALLSTEEL XTRA™

Our most versatile grinding ( $\frac{1}{4}$ " thick) and cutting ( $\frac{1}{8}$ " thick) wheels

ALLSTEEL XTRA™ grinding wheels deliver fast removal rates and long life on both steel and stainless steel. These wheels are heavily reinforced for maximum operator safety and comfort. Do more work in less time with ALLSTEEL XTRA™.



### $\frac{1}{8}$ " TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/8"	7/8"	08-C 452	A-30	13,300	25	200
5"	1/8"	7/8"	08-C 502	A-30	12,200	25	200
6"	1/8"	7/8"	08-C 602	A-30	10,200	25	100
7"	1/8"	7/8"	08-C 702	A-30	8,600	25	100
9"	1/8"	7/8"	08-C 902	A-30	6,600	25	100

**LETS YOU DO MORE WORK**

**IN LESS TIME – GUARANTEED!**

- ▷ *Fast removal rates and cool cutting action*
- ▷ *Heavily reinforced for improved safety*
- ▷ *Excellent control to minimize gouging work surfaces*

### $\frac{1}{4}$ " TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	7/8"	08-C 450	A-24	13,300	25	100
5"	1/4"	7/8"	08-C 500	A-24	12,200	25	100
6"	1/4"	7/8"	08-C 600	A-24	10,200	25	100
7"	1/4"	7/8"	08-C 700	A-24	8,600	25	50
9"	1/4"	7/8"	08-C 900	A-24	6,600	25	50





### 1/8" cutting and light grinding:

- ▷ High performance cutting and intermittent light grinding
- ▷ Maintain a superior cutting edge



### 1/4" grinding:

- ▷ Fast and easy changeover of wheel for minimum downtime
- ▷ High performance and superior control in the most demanding grinding applications





**WILL NOT  
CONTAMINATE  
STAINLESS STEEL**

- ▷ Fast and cool stock removal
- ▷ High performance and superior control in the most demanding grinding applications





## STAINLESS™

Superior performance on stainless steel

When you need a wheel that is guaranteed not to contaminate stainless steel, this is the wheel for the job. These wheels do not contain any iron, sulfur or chlorine and are designed to hug the workpiece for controlled grinding and a smooth, high quality finish.





**1/8" TYPE 27S**    

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/8"	5/8"-11	08-F 452	A-30	13,300	25	100
5"	1/8"	5/8"-11	08-F 502	A-30	12,200	25	100





**1/8" TYPE 27**    

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/8"	7/8"	08-F 462	A-30	13,300	25	200
5"	1/8"	7/8"	08-F 512	A-30	12,200	25	200
6"	1/8"	7/8"	08-F 602	A-30	10,200	25	100
7"	1/8"	7/8"	08-F 702	A-30	8,600	25	100
9"	1/8"	7/8"	08-F 902	A-30	6,600	25	100





Always use 1/8" wheels with flange 30-B 057.

**1/4" TYPE 27S**    

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	5/8"-11	08-F 450	A-30	13,300	20	80
5"	1/4"	5/8"-11	08-F 500	A-30	12,200	20	80

**1/4" TYPE 27**    

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	7/8"	08-F 460	A-30	13,300	25	100
5"	1/4"	7/8"	08-F 510	A-30	12,200	25	100
6"	1/4"	7/8"	08-F 600	A-30	10,200	25	100
7"	1/4"	7/8"	08-F 700	A-30	8,600	25	50
9"	1/4"	7/8"	08-F 900	A-30	6,600	25	50

**1/4" TYPE 28S**    

Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	5/8"-11	08-F 451	A-30	13,300	10	80
5"	1/4"	5/8"-11	08-F 501	A-30	12,200	10	80

Always use 1/4" wheels with flange 30-B 057.





## NO CLOGGING IN ANY TYPE OF ALUMINUM

### 1/8" cutting and light grinding:

- ▷ Formulated for cutting but may also be used for intermittent light grinding
- ▷ Fast and free cutting

### 1/4" grinding:

- ▷ Fast removal rate and long wheel life
- ▷ Free of waxes and lubricants



- ▷ Fast and free cutting
- ▷ Formulated for cutting but may also be used for intermittent light grinding
- ▷ Excellent control in demanding applications
- ▷ Extra hard silicon carbide grain for fast material removal and long wheel life
- ▷ Superior performance in hard facing and cast iron

## ALU™

For use on aluminum and other soft metals

These wheels will not clog or glaze when working with aluminum or other non-ferrous metals. They are free of waxes and lubricants, so there is no need to clean the surface before welding or applying a surface coating, eliminating a time-consuming step in surface preparation.

### 1/8" TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/8"	7/8"	08-L 452	A-24	13,300	25	200
5"	1/8"	7/8"	08-L 502	A-24	12,200	25	200
6"	1/8"	7/8"	08-L 602	A-24	10,200	25	100
7"	1/8"	7/8"	08-L 702	A-24	8,600	25	100
9"	1/8"	7/8"	08-L 902	A-24	6,600	25	100

### 1/4" TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	7/8"	08-L 450	A-24	13,300	25	100
5"	1/4"	7/8"	08-L 500	A-24	12,200	25	100
6"	1/4"	7/8"	08-L 600	A-24	10,200	25	100
7"	1/4"	7/8"	08-L 700	A-24	8,600	25	50
9"	1/4"	7/8"	08-L 900	A-24	6,600	25	50

## CONCRETE™

High performance grinding and cutting

These wheels have multiple high strength reinforcements and durable bond for extra safety in tough grinding and cutting applications. They are designed for fast material removal and smooth grinding and cutting of concrete, masonry, stone and other similar building materials.

### 1/8" TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/8"	7/8"	08-D 452	C-24	13,300	25	200
5"	1/8"	7/8"	08-D 502	C-24	12,200	25	200
7"	1/8"	7/8"	08-D 702	C-24	8,600	25	100

### 1/4" TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	7/8"	08-E 450	C-24	13,300	25	100
5"	1/4"	7/8"	08-E 500	C-24	12,200	25	100
7"	1/4"	7/8"	08-E 700	C-24	8,600	25	50



- ▷ Thin for fast and free cutting and grooving
- ▷ Can also be used for cutting sheet metal

- ▷ Ideal for use with low power angle grinders
- ▷ Grind joint welds with ease
- ▷ Can be used for intermittent light grinding, facing and bevelling work

- ▷ Formulated for light grinding, cutting and notching



## PIPEFITTER™

Designed for premium performance in pipeline construction

These wheels are specially formulated and reinforced for grinding the root pass and joint welds between passes in pipeline construction and pipe fabrication. They do not contain iron, sulfur or chlorine (Fe, S, Cl) and are guaranteed not to contaminate stainless steel.

### 3/32" TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/32"	7/8"	08-N 453	A-36	13,300	25	200
5"	3/32"	7/8"	08-N 503	A-36	12,200	25	200
6"	3/32"	7/8"	08-N 603	A-36	10,200	25	100
7"	3/32"	7/8"	08-N 703	A-36	8,600	25	100

### 1/8" TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/8"	7/8"	08-N 452	A-36	13,300	25	200
5"	1/8"	7/8"	08-N 502	A-36	12,200	25	200
6"	1/8"	7/8"	08-N 602	A-24	10,200	25	100
7"	1/8"	7/8"	08-N 702	A-24	8,600	25	100

### 5/32" TYPE 27



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/32"	7/8"	08-N 454	A-36	13,300	25	200
5"	5/32"	7/8"	08-N 504	A-36	12,200	25	200
6"	5/32"	7/8"	08-N 604	A-20	10,200	25	100
7"	5/32"	7/8"	08-N 704	A-20	8,600	25	100
9"	5/32"	7/8"	08-N 904	A-20	6,600	25	100

### TYPE 27S SPIN-ON



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
5"	3/32"	5/8"-11	08-N 533	A-36	12,200	25	200
6"	3/32"	5/8"-11	08-N 633	A-36	10,200	25	100
6"	5/32"	5/8"-11	08-N 634	A-20	10,200	25	100

Always use with flange 30-B 057.

## HP CUP WHEELS

Walter HP cup wheels are designed for rough grinding or snagging work. Each wheel has a deeply anchored wrap-around steel hub for maximum safety and long life. A  $\frac{5}{8}$ "-11 threaded arbor for SPIN-ON mounting reduces downtime for wheel changes and helps you finish your toughest grinding jobs faster.

### TYPE 11



Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4"	$\frac{5}{8}$ "-11	A-16	12-A 004	9,100	1	10
5"	$\frac{5}{8}$ "-11	A-16	12-A 005	7,260	1	10
6"	$\frac{5}{8}$ "-11	A-16	12-A 006	6,050	1	10



### TYPE 11



Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4"	$\frac{5}{8}$ "-11	C-16	12-B 004	9,100	1	10
5"	$\frac{5}{8}$ "-11	C-16	12-B 005	7,260	1	10
6"	$\frac{5}{8}$ "-11	C-16	12-B 006	6,050	1	10

- ▷ For heavy-duty grinding
- ▷ Excellent wheel life
- ▷ Engineered for maximum operator safety

## PLUGS AND CONES

Very popular in foundries, steel mills and fabricating shops for heavy stock removal in hard to reach areas. Each abrasive has an internal threaded arbor for direct mounting.



Shape	Dia.	Length	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
16	1 1/2"	2 1/2"	$\frac{3}{8}$ "-24	ZA16	12-C 101	24,200	1	10
16	1 1/2"	3"	$\frac{5}{8}$ "-11	ZA16	12-C 111	24,200	1	10
16	2"	3"	$\frac{5}{8}$ "-11	ZA16	12-C 121	18,100	1	10
17	1 1/2"	3"	$\frac{5}{8}$ "-11	ZA16	12-C 401	24,200	1	10
17	2"	4"	$\frac{5}{8}$ "-11	ZA16	12-C 421	18,100	1	10
18	1"	2"	$\frac{3}{8}$ "-24	ZA16	12-C 301	36,200	1	10
18	1 1/2"	3"	$\frac{5}{8}$ "-11	ZA16	12-C 311	24,200	1	10
18	2"	3"	$\frac{5}{8}$ "-11	ZA16	12-C 321	18,100	1	10
18R	1 1/2"	3"	$\frac{5}{8}$ "-11	ZA16	12-C 201	24,200	1	10
18R	2"	3"	$\frac{5}{8}$ "-11	ZA16	12-C 211	18,100	1	10
18R	3"	4"	$\frac{5}{8}$ "-11	ZA16	12-C 221	12,100	1	10



- ▷ For grinding, shaping, cleaning, blending and deburring of internal and external contours
- ▷ Fast material removal, long life



- ▷ For fitting, shaping, enlarging holes and finishing work in confined spaces
- ▷ For use on die grinders, point grinders, flexible shaft machines, etc.
- ▷ A complete line to address all your specific needs
- ▷ Faster removal AND longer lasting



## MOUNTED POINTS

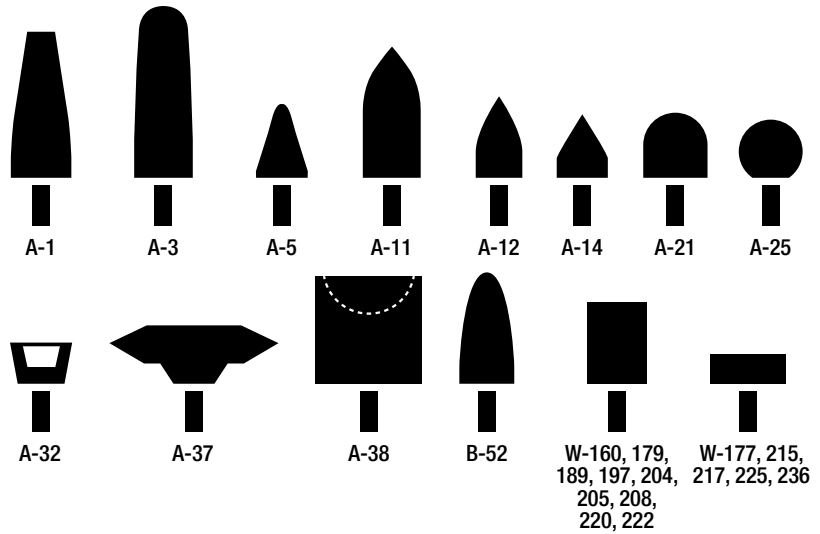
Versatile tools for fitting, shaping and enlarging holes

These mounted points are ideal for finishing work in confined spaces. They are made from the finest grade of abrasive grains, and each is perfectly balanced to minimize vibration.

**Blue-grey for mild steel and cast iron**

**Orange for tool and high tensile steel**

**Resin bond for stainless steel**



### BLUE-GREY

Type	Dia.	Lenght	Shaft	Order No.	Grit	Max. RPM	Std. Pkg.	Std. Ctn.
A-1	3/4"	2 1/2"	1/4"	12-D 002	A36	19,800	1	10
A-3	1"	2 3/4"	1/4"	12-D 012	A36	16,100	1	10
A-5	3/4"	1 1/8"	1/4"	12-D 022	A36	45,000	1	10
A-11	7/8"	2"	1/4"	12-D 032	A36	19,800	1	10
A-12	1 1/16"	1 1/4"	1/4"	12-D 037	A36	48,000	1	10
A-14	1 1/16"	7/8"	1/4"	12-D 047	A36	48,000	1	10
A-21	1"	1"	1/4"	12-D 057	A36	34,500	1	10
A-25	1"	1"	1/4"	12-D 077	A36	35,600	1	10
A-32	1"	5/8"	1/4"	12-D 092	A36	38,200	1	10
A-38	1"	1"	1/4"	12-D 122	A36	34,500	1	10
B-52	3/8"	3/4"	1/8"	12-D 232	A36	45,370	1	10
B-52	3/8"	3/4"	1/4"	12-D 242	A36	45,370	1	10
W-179	3/8"	1 1/4"	1/4"	12-D 592	A36	45,750	1	10
W-197	5/8"	2"	1/4"	12-D 677	A36	21,000	1	10
W-205	3/4"	1"	1/4"	12-D 722	A36	34,500	1	10
W-217	1"	3/8"	1/4"	12-D 782	A36	38,200	1	10
W-220	1"	1"	1/4"	12-D 797	A36	25,500	1	10
W-222	1"	2"	1/4"	12-D 807	A36	15,900	1	10
W-225	1 1/4"	1/4"	1/4"	12-D 822	A36	30,560	1	10



**Tech tip!**

Use dressing stones to extend product life and allow mounted points or bench grinding wheels to cut faster and produce a better surface finish.

**ORANGE**

Type	Dia.	Length	Shaft	Order No.	Grit	Max. RPM	Std. Pkg.	Std. Ctn.
A-1	3/4"	2 1/2"	1/4"	12-D 001	A60	19,800	1	10
A-3	1"	2 3/4"	1/4"	12-D 011	A60	16,100	1	10
A-5	3/4"	1 1/8"	1/4"	12-D 021	A60	45,000	1	10
A-11	7/8"	2"	1/4"	12-D 031	A60	19,800	1	10
A-12	1 1/16"	1 1/4"	1/4"	12-D 036	A60	48,000	1	10
A-14	1 1/16"	7/8"	1/4"	12-D 046	A60	48,000	1	10
A-21	1"	1"	1/4"	12-D 056	A60	34,500	1	10
A-25	1"	1"	1/4"	12-D 076	A60	35,600	1	10
A-32	1"	5/8"	1/4"	12-D 091	A60	38,200	1	10
A-37	1 1/4"	1/4"	1/4"	12-D 116	A60	30,560	1	10
A-38	1"	1"	1/4"	12-D 121	A60	34,500	1	10
W-179	5/8"	1 1/4"	1/4"	12-D 591	A60	45,750	1	10
W-197	5/8"	2"	1/4"	12-D 676	A60	21,000	1	10
W-205	3/4"	1"	1/4"	12-D 721	A60	34,500	1	10
W-217	1"	3/8"	1/4"	12-D 781	A60	38,200	1	10
W-220	1"	1"	1/4"	12-D 796	A60	25,500	1	10
W-222	1"	2"	1/4"	12-D 806	A60	15,900	1	10
W-225	1 1/4"	1/4"	1/4"	12-D 821	A60	30,560	1	10

**Accessories****Dressing stones**

Dimensions	Order No.	Std. Pkg.	Std. Ctn.
1" x 1" x 6"	12-D 900	1	10
1" x 1" x 8"	12-D 901	1	10

\* Max. RPM listed are for 1/2" free shaft.

**RESIN BOND**

Type	Dia.	Length	Shaft	Order No.	Grit	Max. RPM	Std. Pkg.	Std. Ctn.
A-1	3/4"	2 1/2"	1/4"	12-D 003	A36	19,800	1	10
A-3	1"	2 3/4"	1/4"	12-D 013	A36	16,100	1	10
A-5	3/4"	1 1/8"	1/4"	12-D 023	A36	45,000	1	10
A-11	7/8"	2"	1/4"	12-D 033	A36	19,800	1	10
A-12	1 1/16"	1 1/4"	1/4"	12-D 038	A36	48,000	1	10
A-21	1"	1"	1/4"	12-D 058	A36	34,500	1	10
A-25	1"	1"	1/4"	12-D 078	A36	35,600	1	10
W-179	5/8"	1 1/4"	1/4"	12-D 593	A36	45,750	1	10
W-197	5/8"	2"	1/4"	12-D 678	A36	21,000	1	10
W-205	3/4"	1"	1/4"	12-D 723	A36	34,500	1	10
W-217	1"	3/8"	1/4"	12-D 783	A36	38,200	1	10
W-220	1"	1"	1/4"	12-D 798	A36	25,500	1	10
W-222	1"	2"	1/4"	12-D 808	A36	15,900	1	10



# BENCH GRINDING WHEELS

Long lasting and dependable, our bench grinding wheels are perfect for general purpose sharpening, shaping or deburring on bench and pedestal grinders. All wheels are supplied with nested reducer bushings to fit on 1", 3/4", 5/8" and 1/2" shafts.



## TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
6"	3/4"	1"	12-E 324	36 coarse	4,100	1	1
6"	3/4"	1"	12-E 325	46 medium	4,100	1	1
6"	3/4"	1"	12-E 328	80 fine	4,100	1	1
6"	1"	1"	12-E 344	36 coarse	4,100	1	1
6"	1"	1"	12-E 345	46 medium	4,100	1	1
6"	1"	1"	12-E 348	80 fine	4,100	1	1
7"	1"	1"	12-E 444	36 coarse	3,600	1	1
7"	1"	1"	12-E 447	60 fine	3,600	1	1
8"	7/8"	1"	12-E 533	24 coarse	3,600	1	1
8"	7/8"	1"	12-E 537	60 fine	3,600	1	1
8"	1"	1"	12-E 543	24 coarse	3,600	1	1
8"	1"	1"	12-E 545	46 medium	3,600	1	1
8"	1"	1"	12-E 547	60 fine	3,600	1	1
8"	1 1/4"	1"	12-E 553	24 coarse	3,600	1	1
8"	1 1/4"	1"	12-E 557	60 fine	3,600	1	1
10"	1"	1"	12-E 643	24 coarse	2,500	1	1
10"	1"	1"	12-E 647	60 fine	2,500	1	1
10"	1 1/4"	1"	12-E 657	60 fine	2,500	1	1



## TYPE 1



Dia.	Thick.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
6"	3/4"	1"	12-E 329	80 fine	4,100	1	1
7"	1"	1"	12-E 449	80 fine	3,600	1	1
8"	1"	1"	12-E 549	80 fine	3,600	1	1
10"	1"	1"	12-E 649	80 fine	2,500	1	1

### Accessories



#### Reducer bushings

#### Order No.

- Set 3/4" wide, from 1" to 3/4", 5/8" and 1/2" 12-E 006
- Set 1" wide, from 1" to 3/4", 5/8" and 1/2" 12-E 007
- Pair of bushings from 1" to 7/8" 12-E 008

#### Wheel dressers

#### Order No.

- Standard type  12-E 001
- Heavy-duty  12-E 002

#### Replacement wheels

#### Order No.

- Set for 12-E 001 12-E 004
- Set for 12-E 002 12-E 005

04

**BLENDING**



# BLENDING PRODUCTS AT A GLANCE

## RECOMMENDED BY TYPE OF USAGE



Our **Enduro-Flex** flap discs feature trimmable backings made with our proprietary ECO-TRIM wood fiber backing material. When the flaps wear down to the outer diameter of the backing, trim away 1/4" of the backing at a time (up to three times total) to expose fresh abrasive grain, extending disc life and giving you a fresh new cutting edge.



\* Results based on a 5" Enduro-Flex used on steel.

\* Trimmed once

\* Trimmed twice



## ENDURO-FLEX ALU™

High-performance flap disc for aluminum surfaces

The new Enduro-Flex ALU™ uses a superior zirconia alumina grain blend that is free of iron, sulfur and chlorine to achieve maximum results when blending on aluminum surfaces. It's built using a special coating for extra long life. Thanks to its high removal rates, and resistance to glaze buildup, Enduro-Flex ALU™ is the optimal choice for operators looking to enhance both quality and productivity when working with aluminum or other heat sensitive metals.



- ▷ Specially formulated for performance and productivity on aluminum surfaces
- ▷ Special coating prevents load up and glazing and extends disc life
- ▷ Eco-Trim™ trimmable backing extends disc life by up to 3 times

### TYPE 27



Dia.	Arbor	Order No.	Std. Pkg.	Std. Ctn.
7"	7/8"	15-U 704	10	40
7"	7/8"	15-U 706	10	40
7"	7/8"	15-U 708	10	40

Always use with flange 30-B 057.

### TYPE 27S



Dia.	Arbor	Order No.	Std. Pkg.	Std. Ctn.
4-1/2"	5/8"-11	06-U 454	10	40
4-1/2"	5/8"-11	06-U 456	10	40
4-1/2"	5/8"-11	06-U 458	10	40
5"	5/8"-11	06-U 504	10	40
5"	5/8"-11	06-U 506	10	40
5"	5/8"-11	06-U 508	10	40
6"	5/8"-11	06-U 606	10	40
6"	5/8"-11	06-U 608	10	40
6"	5/8"-11	06-U 604	10	40

Always use with flange 30-B 057.



THE LONGEST  
LASTING  
FLAP DISCS  
ON THE  
MARKET

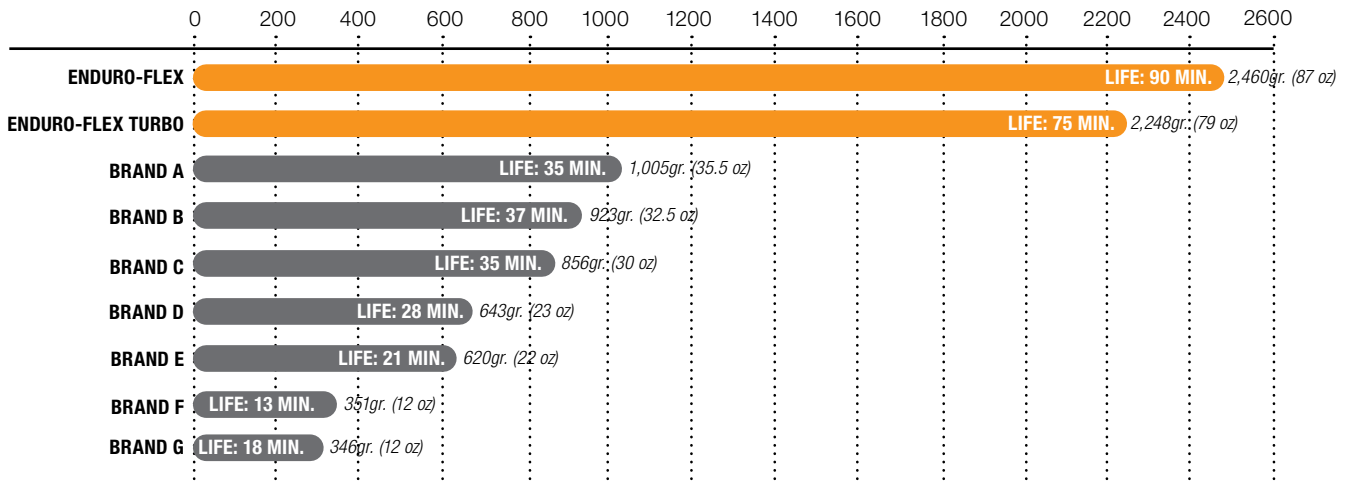


## ENDURO-FLEX

COMPARISON TEST BETWEEN 5" FLAP DISCS, GRIT 40

Tests were done using the PRO 5 grinder

**Total quantity of grams (ounces) removed on steel**





## ENDURO-FLEX™

The longest life and highest overall material removal in the industry

ENDURO-FLEX™ outperforms all competitive flap discs thanks to its innovative design and exclusive abrasive grain blend. Featuring an ECO-TRIM™ backing that can be trimmed back to extend disc life, ENDURO-FLEX™ is the longest lasting flap disc in the industry and removes more material than any competitive flap disc. Your employees will spend more time getting the job done and less time making trips to the tool crib, saving you time and money while maximizing your productivity.

### THE LONGEST LIFE FLAP DISC ON THE MARKET



- ▷ Longest lasting flap disc on the market
- ▷ Highest overall material removal in the industry
- ▷ New Eco-Trim backing is easier to trim and environmentally friendly
- ▷ Remove welds and finish surfaces in one step
- ▷ Quiet, vibration-free grinding
- ▷ Lightweight

**INCREASE YOUR REMOVAL RATE BY A MINIMUM OF 25% BY COMBINING YOUR ENDURO-FLEX TURBO™ WITH THE PRO 5 OR BIG 6 GRINDER!**  
See pages 163 and 164.



#### YouTube

Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

#### Accessory

**ENDURO-FLEX trimming tool**  
Order No. 06-B 901



#### TYPE 27S SPIN-ON



Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"-11	40	06-B 454	13,300	10	40
4 1/2"	5/8"-11	60	06-B 456	13,300	10	40
4 1/2"	5/8"-11	80	06-B 458	13,300	10	40
4 1/2"	5/8"-11	120	06-B 462	13,300	10	40
5"	5/8"-11	40	06-B 504	12,200	10	40
5"	5/8"-11	60	06-B 506	12,200	10	40
5"	5/8"-11	80	06-B 508	12,200	10	40
5"	5/8"-11	120	06-B 512	12,200	10	40
6"	5/8"-11	40	06-B 604	10,200	10	40
6"	5/8"-11	60	06-B 606	10,200	10	40
6"	5/8"-11	80	06-B 608	10,200	10	40
6"	5/8"-11	120	06-B 612	10,200	10	40

Always use with flange 30-B 057.

#### TYPE 27



Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	7/8"	40	15-R 454	13,300	10	40
4 1/2"	7/8"	60	15-R 456	13,300	10	40
4 1/2"	7/8"	80	15-R 458	13,300	10	40
4 1/2"	7/8"	120	15-R 462	13,300	10	40
5"	7/8"	40	15-R 504	12,200	10	40
5"	7/8"	60	15-R 506	12,200	10	40
5"	7/8"	80	15-R 508	12,200	10	40
5"	7/8"	120	15-R 512	12,200	10	40
6"	7/8"	40	15-R 604	10,200	10	40
6"	7/8"	60	15-R 606	10,200	10	40
6"	7/8"	80	15-R 608	10,200	10	40
6"	7/8"	120	15-R 612	10,200	10	40
7"	7/8"	40	15-R 704	8,600	10	40
7"	7/8"	60	15-R 706	8,600	10	40
7"	7/8"	80	15-R 708	8,600	10	40
7"	7/8"	120	15-R 712	8,600	10	40

Always use with flange 30-B 057.

# ENDURO-FLEX™ STAINLESS

Guaranteed not to contaminate stainless steel

ENDURO-FLEX™ Stainless offers all the benefits of the standard ENDURO-FLEX™ with a formula free of iron, sulfur and chlorine to meet quality control objectives in sensitive operations. ENDURO-FLEX™ Stainless is the flap disc of choice for workers nationwide for blending applications on stainless steel and other heat sensitive alloys.

**CONSISTENT FINISH**  
WITHOUT DISCOLORATION



**TYPE 27S** **SPIN-ON** **Fe-S-Cl <0.1%** Inox.

Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8" -11	40	06-F 454	13,300	10	40
4 1/2"	5/8" -11	60	06-F 456	13,300	10	40
4 1/2"	5/8" -11	80	06-F 458	13,300	10	40
4 1/2"	5/8" -11	120	06-F 462	13,300	10	40
5"	5/8" -11	40	06-F 504	12,200	10	40
5"	5/8" -11	60	06-F 506	12,200	10	40
5"	5/8" -11	80	06-F 508	12,200	10	40
5"	5/8" -11	120	06-F 512	12,200	10	40
6"	5/8" -11	40	06-F 604	10,200	10	40
6"	5/8" -11	60	06-F 606	10,200	10	40
6"	5/8" -11	80	06-F 608	10,200	10	40
6"	5/8" -11	120	06-F 612	10,200	10	40

Always use with flange 30-B 057.

**TYPE 27** **Fe-S-Cl <0.1%** Inox.

Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	7/8"	40	15-Q 454	13,300	10	40
4 1/2"	7/8"	60	15-Q 456	13,300	10	40
4 1/2"	7/8"	80	15-Q 458	13,300	10	40
4 1/2"	7/8"	120	15-Q 462	13,300	10	40
5"	7/8"	40	15-Q 504	12,200	10	40
5"	7/8"	60	15-Q 506	12,200	10	40
5"	7/8"	80	15-Q 508	12,200	10	40
5"	7/8"	120	15-Q 512	12,200	10	40
7"	7/8"	40	15-Q 704	8,600	10	40
7"	7/8"	60	15-Q 706	8,600	10	40
7"	7/8"	80	15-Q 708	8,600	10	40
7"	7/8"	120	15-Q 712	8,600	10	40

Always use with flange 30-B 057.

- ▷ *Environmentally friendly*
- ▷ *Superior performance on all heat sensitive metals*
- ▷ *Will not load or glaze*
- ▷ *The coolest cutting action on stainless*
- ▷ *The fastest removal rate and best overall life on non-ferrous alloys*





### Tech tip!

**SPEED** To ensure the longest life and best performance, use at optimal speed of 4,000 to 6,000 RPM

**PRESSURE** More pressure will increase removal rate while less pressure will improve the surface finish

**WORKING ANGLE** For best performance, always use at a working angle of 4° to 10°. Never use flat.

## ENDURO-FLEX 2-IN-1™ FINISHING DISC

One-step finishing

Enduro-Flex 2-in-1™ flap discs remove TIG welds and finish the surface in just one step, substantially reducing your finishing costs. Save time and reduce your inventory by using just one disc instead of two or more to perform the same job.

Long lasting

Developed to blend light TIG welds, break edges, blend and remove surface imperfections, oxidation, discoloration etc. One Enduro-Flex 2-in-1™ disc will do the job of over twenty traditional discs while providing a smooth and consistent surface finish.

▶ Allows operators to achieve a food grade finish

TYPE 27S		SPIN-ON		Steel Inox. Alu. + n.t. metals		
Dia.	Arbor	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"-11	15-I 453	13,300	4,000 to 6,000	10	40
5"	5/8"-11	15-I 503	12,200	4,000 to 6,000	10	40



## ENDURO-FLEX 2-IN-1™ TURBO FINISHING DISC

The most versatile and fastest finishing disc on the market

Achieving the ideal finish when blending welds has never been easier. With the new ENDURO-FLEX 2-in-1™ TURBO, remove material faster and get the finish you want in fewer steps. Designed for steel, stainless steel and aluminum, the ENDURO-FLEX 2-in-1™ TURBO provides unmatched versatility. Incorporating Walter's Cyclone™ Technology and high-tech Blendex™ Technology, the result is a smooth finish and product life that is simply unsurpassed.

Sanding flaps

- ▶ Special low heat generating top coat
- ▶ Non-loading
- ▶ High removal rate



BLENDEX flaps

- ▶ Combination that gives great performance on aluminum
- ▶ Non-woven material, will not smear or contaminate the workpiece
- ▶ Tear resistant for longest life



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

TYPE 27S		SPIN-ON		Steel Inox. Alu. + n.t. metals		
Dia.	Arbor	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"-11	15-I 451	13,300	4,000 to 6,000	10	40
5"	5/8"-11	15-I 501	12,200	4,000 to 6,000	10	40

Always use with flange 30-B 057.

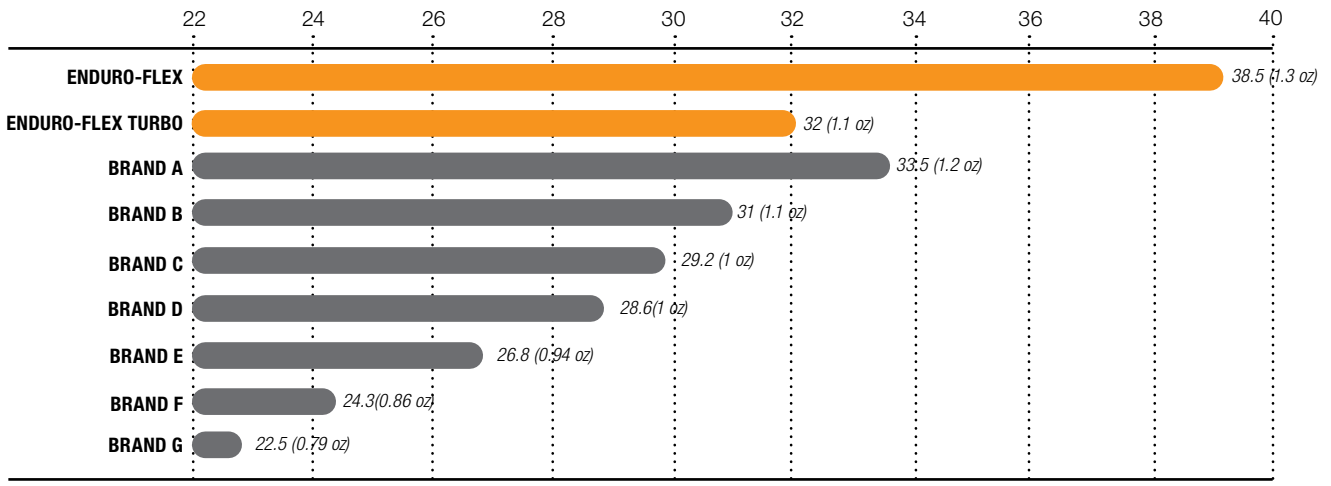


ENDURO-FLEX  
TURBO

THE FASTEST  
FLAP DISCS  
ON THE  
MARKET

**ENDURO-FLEX TURBO**  
COMPARISON TESTS BETWEEN 5" FLAP DISCS

Tests were done using the PRO 5 grinder  
**Removal rate on steel - gr. (oz.)/min.**





- ▷ Exclusive flap configuration and Cyclone™ Technology for ultra fast metal removal
- ▷ Turbofan™ Cooling keeps the workpiece cooler for longer disc life
- ▷ Guaranteed cost savings!

**INCREASE YOUR REMOVAL RATE BY A MINIMUM OF 30% BY COMBINING YOUR ENDURO-FLEX TURBO WITH THE PRO 5 OR BIG 6 GRINDER!**  
See pages 163 and 164.







Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

## ENDURO-FLEX TURBO™





The fastest cutting flap disc on the market

If time is money, then ENDURO-FLEX TURBO is worth its weight in gold. This extremely aggressive flap disc removes material like a 36 grit but leaves a 60 grit, paint-ready finish, saving you a valuable step in the finishing process. The innovative backing pad design allows air to cool the workpiece, increasing product life and minimizing heat transfer to the surface. Whether you are working with steel or stainless steel, ENDURO-FLEX TURBO will help you blend welds and break edges faster, guaranteed.

**HIGHEST  
REMOVAL RATE  
IN THE INDUSTRY**

TYPE 27S  <b>SPIN-ON</b>							
Dia.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.	
4 1/2"	5/8"-11	06-A 452	36/60	13,300	10	40	
4 1/2"	5/8"-11	06-A 458	80	13,300	10	40	
5"	5/8"-11	06-A 502	36/60	12,000	10	40	
5"	5/8"-11	06-A 508	80	12,200	10	40	
6"	5/8"-11	06-A 602	36/60	10,200	10	40	

Always use with flange 30-B 057.

TYPE 27 							
Dia.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.	
4 1/2"	7/8"	06-A 462	36/60	13,300	10	40	
5"	7/8"	06-A 512	36/60	12,200	10	40	
7"	7/8"	06-A 712	36/60	8,600	10	40	

Always use with flange 30-B 057.



## ERGOFLEX™

When employee safety and ergonomics are top priorities

ErgoFlex™ is an abrasive that combines our proprietary Cyclone™ Technology grain blend with a Type 29 disc design to provide a solution for professionals looking to maximize workplace safety and ergonomics without sacrificing productivity. These wheels allow for a more comfortable working angle than Type 27 depressed center grinding wheels while minimizing the amount of noise and dust created during weld blending operations. The aggressive 36 grit abrasive grain blend also removes material quickly, allowing you to strike a perfect balance between comfort, safety and productivity.

- ▷ **Advanced Cyclone™ Technology abrasive grain blend removes material fast for improved productivity**
- ▷ **Designed for extremely smooth, comfortable blending of both flat and curved surfaces**
- ▷ **Reduces the amount of dust generated by 95% compared to traditional grinding wheels**
- ▷ **Reduces the level of noise generated by 50% compared to a traditional grinding wheel**
- ▷ **Less risk of gouging compared to traditional grinding wheels**

### TYPE 29



Fe-S-CI  
<0.1%



Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	7/8"	36	15-T 453	13,300	25	200
4 1/2"	7/8"	60	15-T 456	13,300	25	200
4 1/2"	7/8"	80	15-T 458	13,300	25	200
5"	7/8"	36	15-T 503	12,200	25	200
5"	7/8"	60	15-T 506	13,000	25	200
5"	7/8"	80	15-T 508	13,000	25	200
6"	7/8"	36	15-T 603	10,200	25	100
6"	7/8"	60	15-T 606	10,200	25	100
6"	7/8"	80	15-T 608	10,200	25	100
7"	7/8"	36	15-T 703	8,600	25	100
7"	7/8"	60	15-T 706	8,600	25	100
7"	7/8"	80	15-T 708	8,600	25	100

Always use with flange 30-B 030.



### Tech tip!

Use with backing flange set 30-B 030 for best results. (Each pack of 25 comes with one backing flange set for your convenience)



30-B 030



30-B 031

### Accessories

Backing flange set	<b>Order No. 30-B 030</b>
Ergoflange 1/4" (6 mm) Pack of 5	<b>Order No. 30-B 031</b>



## FLEXCUT™

Premium performance on curved or uneven surfaces

FLEXCUT™, the leading flexible grinding wheel for over 25 years, is specially formulated to deliver superior removal on all ferrous and non-ferrous metals without clogging or loading.



### TYPE 29



Fe-S-CI  
<0.1%



Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
3"	3/8"	A-36-X-FLEX	15-L 303	* 20,400	25	200
3"	3/8"	A-60-X-FLEX	15-L 306	* 20,400	25	200
4 1/2"	7/8"	A-36-X-FLEX	15-L 463	13,300	25	200
5"	7/8"	A-36-X-FLEX	15-L 513	12,200	25	200
5"	7/8"	A-60-X-FLEX	15-L 516	12,200	25	200
7"	7/8"	A-24-X-FLEX	15-L 702	8,600	25	100
7"	7/8"	A-36-X-FLEX	15-L 703	8,600	25	100
7"	7/8"	A-60-X-FLEX	15-L 706	8,600	25	100
7"	7/8"	A-100-X-FLEX	15-L 710	8,600	25	100

\*Use with 1/4" mandrel 11-L 007.

Always use SPIN-ON wheels with flange 30-B 057.

**BLENDERS IN PERFECTLY**  
ON UNEVEN SURFACES  
AND WILL NEVER CLOG  
ON ALUMINUM



### TYPE 29S



SPIN-ON



Fe-S-CI  
<0.1%



Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"-11	A-36-X-FLEX	15-L 453	13,300	25	100
4 1/2"	5/8"-11	A-60-X-FLEX	15-L 456	13,300	25	100
4 1/2"	5/8"-11	A-100-X-FLEX	15-L 460	13,300	25	200
5"	5/8"-11	A-36-X-FLEX	15-L 503	12,200	25	100
5"	5/8"-11	A-60-X-FLEX	15-L 506	12,200	25	100
5"	5/8"-11	A-100-X-FLEX	15-L 510	12,200	25	200
6"	5/8"-11	A-24-X-FLEX	15-L 602	10,200	25	200
6"	5/8"-11	A-36-X-FLEX	15-L 603	10,200	25	200
6"	5/8"-11	A-60-X-FLEX	15-L 606	10,200	25	200

Deep Diamond-Cut™ pattern and optimized formulation offer:

- ▷ **More flexibility**
- ▷ **Best handling on flat and curved surfaces**
- ▷ **Cooler grinding**
- ▷ **Better stock removal in all materials (steel, stainless steel, aluminum)**







Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

## FLEXCUT MILL SCALE™

Quick, consistent removal of mill scale





Are you tired of changing out wheels every few minutes as they glaze over or clog during mill scale removal? FLEXCUT MILL SCALE™ is a flexible grinding wheel designed to last longer and remove mill scale quicker than any other abrasive. That's because FLEXCUT MILL SCALE™ is the first abrasive ever designed exclusively for the purpose of removing mill scale from hot rolled steel. Save time and quit throwing away wheels every few minutes. Switch to FLEXCUT MILL SCALE™ today for easy removal of mill scale and rust.



**TYPE 29S**  **SPIN-ON**  **Fe-S-Cl <0.1%**  

Dia.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"-11	15-L 843	A-36-FLEX	13,300	25	100
5"	5/8"-11	15-L 853	A-36-FLEX	12,200	25	200
6"	5/8"-11	15-L 863	A-36-FLEX	10,200	25	100

Always use SPIN-ON wheels with flange 30-B 057.

**TYPE 29**   **Fe-S-Cl <0.1%**  

Dia.	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
7"	7/8"	15-L 873	A-36-FLEX	8,600	25	100

- ▷ *Unique blend of highly refined abrasives allows ultra quick cutting action without glazing or clogging*
- ▷ *Open diamond cut pattern prevents clogging*
- ▷ *Extremely effective for heavily rusted plates, aluminum or galvanized metal and painted material*
- ▷ *Fe-free formulation – guaranteed not to contaminate aluminum*
- ▷ *Cool cutting action*



Video available at [The Walter Network](http://TheWalterNetwork.com)  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)



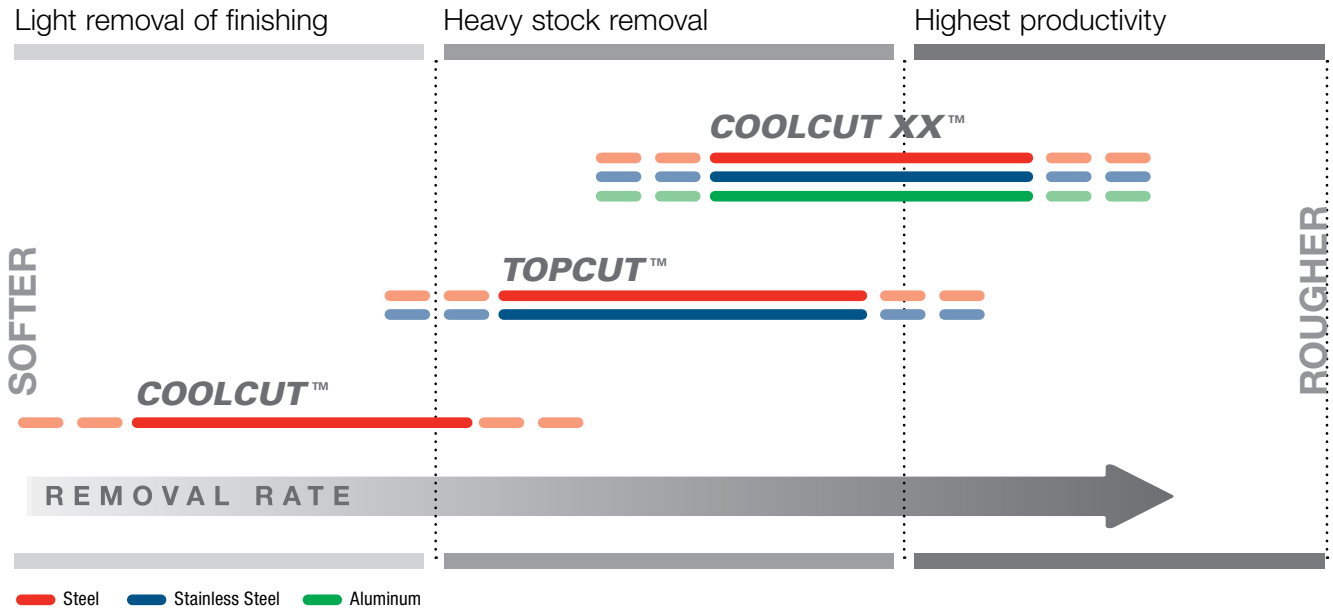
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SANDING



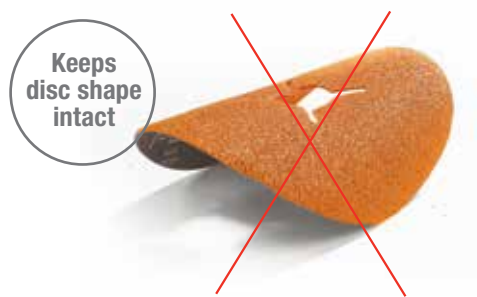
# SANDING PRODUCTS AT A GLANCE

## RECOMMENDED BY TYPE OF USAGE



### Unique packaging for optimal performance

- Best preservation of sanding disc with “Humidity Control” feature
- Shrink wrapped in quantities of 25 (2 x 25 discs) to keep discs’ shape intact
- Ensures the longest life, most aggressive removal rate and best overall performance

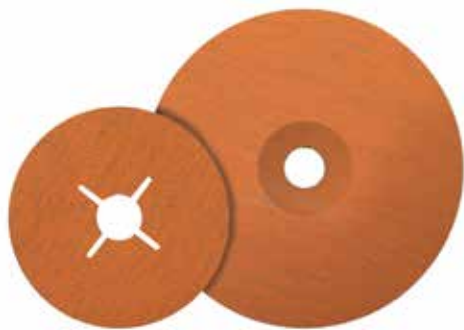


### Exclusive packaging!

## COOLCUT XX™ 50 packs

Packaging that makes sense

Select grits and sizes of COOLCUT XX™ are now available in 50 packs. These specially designed packages are humidity-controlled to better preserve the sanding discs, essentially keeping them “factory fresh” and ensuring you get the best life and performance. Discs are also shrink wrapped to minimize warping.



- ▷ 6 times more total stock removal than aluminum oxide sanding discs
- ▷ 2 times faster cutting than aluminum oxide sanding discs
- ▷ Remove more material in less time, even when compared to some grinding wheels
- ▷ Provides a consistent surface finish, disc after disc
- ▷ Cooling agents ensure cool cutting to prevent burning and distortion

### Tech tip!

Use with Turbo backing pads to reduce heat built-up and prolong disc life



## COOLCUT XX™

The longest lasting, most aggressive sanding discs

COOLCUT XX™ sanding discs are formulated with our exclusive Cyclone™ Technology abrasive grain blend to provide extremely aggressive material removal rates and the longest life in the industry. These discs allow you to remove more material faster while also lasting longer than traditional aluminum oxide or zirconia alumina sanding discs, making them ideal for use in a production environment.

### REDUCE YOUR CYCLE TIME AND ELIMINATE BOTTLENECKS IN THE PRODUCTION PROCESS



Dia.	Arbor	Grit	Order No.	Std. Pkg.	Std. Ctn.
4 1/2"	7/8"	24	15-X 452	25	250
4 1/2"	7/8"	36	15-X 453	25	250
4 1/2"	7/8"	50	15-X 455	25	250
4 1/2"	7/8"	60	15-X 456	25	250
4 1/2"	7/8"	80	15-X 458	25	250
4 1/2"	7/8"	100	15-X 460	25	250
4 1/2"	7/8"	120	15-X 462	25	250
5"	7/8"	24	15-X 502	25	250
5"	7/8"	36	15-X 503	25	250
5"	7/8"	50	15-X 505	25	250
5"	7/8"	60	15-X 506	25	250
5"	7/8"	80	15-X 508	25	250
5"	7/8"	100	15-X 510	25	250
5"	7/8"	120	15-X 512	25	250
6"	7/8"	24	15-X 602	25	250
6"	7/8"	36	15-X 603	25	250
6"	7/8"	50	15-X 605	25	250
6"	7/8"	60	15-X 606	25	250
6"	7/8"	80	15-X 608	25	250
6"	7/8"	100	15-X 610	25	250
6"	7/8"	120	15-X 612	25	250
7"	7/8"	24	15-X 702	25	250
7"	7/8"	36	15-X 703	25	250
7"	7/8"	50	15-X 705	25	250
7"	7/8"	60	15-X 706	25	250
7"	7/8"	80	15-X 708	25	250
7"	7/8"	100	15-X 710	25	250
7"	7/8"	120	15-X 712	25	250

### YouTube

Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)



## COOLCUT XX™ 50 pack



Dia.	Arbor	Grit	Order No.	Std. Pkg.	Std. Ctn.
4 1/2"	7/8"	36	15-X 453B	50	400
4 1/2"	7/8"	50	15-X 455B	50	400
4 1/2"	7/8"	60	15-X 456B	50	400
4 1/2"	7/8"	80	15-X 458B	50	400
5"	7/8"	36	15-X 503B	50	400
5"	7/8"	50	15-X 505B	50	400
5"	7/8"	60	15-X 506B	50	400
5"	7/8"	80	15-X 508B	50	400

# COOLCUT XX™ QUICK-CHANGE

Now with SPIN-ON™ system

Our COOLCUT XX™ sanding discs are now available in a Quick-Change format for easier mounting and faster disc change outs. Use with new Quick-Change Turbo backing pads for the best results.



Dia.	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"-11	36	15-X 473	13,300	25	250
4 1/2"	5/8"-11	50	15-X 475	13,300	25	250
4 1/2"	5/8"-11	60	15-X 476	13,300	25	250
4 1/2"	5/8"-11	80	15-X 478	13,300	25	250
4 1/2"	5/8"-11	120	15-X 482	13,300	25	250
5"	5/8"-11	36	15-X 523	12,200	25	250
5"	5/8"-11	50	15-X 525	12,200	25	250
5"	5/8"-11	60	15-X 526	12,200	25	250
5"	5/8"-11	80	15-X 528	12,200	25	250
5"	5/8"-11	120	15-X 532	12,200	25	250
7"	5/8"-11	36	15-X 723	8,600	25	250
7"	5/8"-11	60	15-X 726	8,600	25	250
7"	5/8"-11	80	15-X 728	8,600	25	250
7"	5/8"-11	120	15-X 732	8,600	25	250



*New Quick-Change format allows you to save time on disc changes, significantly reducing lost time and associated labor costs over the course of the work day!*

### Tech tip!

Use with new Turbo Quick-Change backing pads for 5/8"-11 threading

**EASIER MOUNTING  
AND FASTER DISC  
CHANGE OUTS**





- ▷ High quality impact resistant plastic with maximum flexibility



- ▷ Hard black pad, for weld blending and high stock removal
- ▷ Excellent heat dissipation for longer life
- ▷ Recommended for grit 50 and coarser



- ▷ Soft white pad, extra flexible for surface finishing where a wider contact area is required
- ▷ Excellent heat dissipation for longer life
- ▷ Recommended for grit 60 and finer
- ▷ New nut – easier to tighten by hand



## BACKING PAD ASSEMBLIES



Dia.	Arbor	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4"	M10 × 1.25	15-D 030	15,000	1	10
4"	5/8"-24	15-D 035	15,000	1	10
4 1/2"	5/8"-11	15-D 044	13,300	1	10
5"	5/8"-11	15-D 054	12,200	1	10
6"	5/8"-11	15-D 064	10,200	1	10
7"	5/8"-11	15-D 027	8,600	1	10

## TURBO BACKING PAD ASSEMBLIES (Black and white)

Special saucer shaped backing pad with ribbed backing, ensures a continuous stream of air between pad and disc for cool operation and long disc life. The ideal choice for COOLCUT XX™.



Dia.	Arbor	Color	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"-11	Black	15-M 044	13,300	1	10
4 1/2"	5/8"-11	White	15-M 045	13,300	1	10
5"	5/8"-11	Black	15-M 054	12,200	1	10
5"	5/8"-11	White	15-M 055	12,200	1	10
6"	5/8"-11	Black	15-M 064	10,200	1	10
6"	5/8"-11	White	15-M 065	10,200	1	10
7"	5/8"-11	Black	15-M 007	8,600	1	10
7"	5/8"-11	White	15-M 008	8,600	1	10

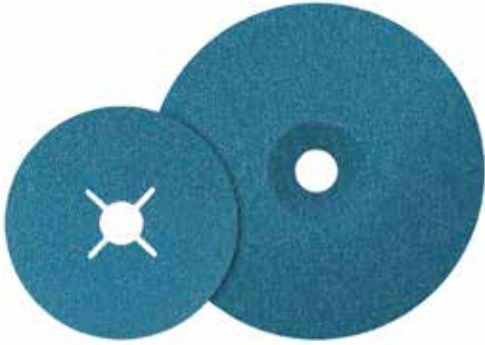
## TURBO QUICK-CHANGE BACKING PADS (Black and white)

Special saucer shaped backing pad with ribbed backing, ensures a continuous stream of air between pad and disc for cool operation and long disc life. The ideal choice for COOLCUT XX™ Quick-Change.



**SPIN-ON**

Dia.	Arbor	Color	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"-11	Black	15-M 144	13,300	1	10
4 1/2"	5/8"-11	White	15-M 145	13,300	1	10
5"	5/8"-11	Black	15-M 154	12,200	1	10
5"	5/8"-11	White	15-M 155	12,200	1	10
7"	5/8"-11	Black	15-M 157	8,600	1	10
7"	5/8"-11	White	15-M 158	8,600	1	10



## TOPCUT™

Aggressive removal rate and extended disc life

TOPCUT™ sanding discs now remove material 50% faster than before, with a longer working life to help you maximize the efficiency of your production process. Designed using longer lasting abrasive grains, TOPCUT™ is ideal for finishing applications on stainless steel and can improve your stock removal in more aggressive applications. Cooler sanding also guarantees your metal will not overheat, helping to preserve it and resulting in a higher quality finished product.



- ▷ *Highest performance zirconia alumina sanding disc*
- ▷ *Highest total removal in the industry for a zirconia alumina disc*
- ▷ *Fast removal rate with cooler cutting to reduce heat generation and prevent warping or discoloration*
- ▷ *The ideal option for use on heat sensitive metals*

Dia.	Arbor	Grit	Order No.	Std. Pkg.	Std. Ctn.
4 1/2"	7/8"	24	15-P 452	25	250
4 1/2"	7/8"	36	15-P 453	25	250
4 1/2"	7/8"	60	15-P 456	25	250
4 1/2"	7/8"	80	15-P 458	25	250
5"	7/8"	24	15-P 502	25	250
5"	7/8"	36	15-P 503	25	250
5"	7/8"	60	15-P 506	25	250
5"	7/8"	80	15-P 508	25	250
7"	7/8"	24	15-P 702	25	250
7"	7/8"	36	15-P 703	25	250
7"	7/8"	60	15-P 706	25	250
7"	7/8"	80	15-P 708	25	250





# COOLCUT™

General purpose sanding

COOLCUT™ is an economical solution for weld blending and finishing on steel surfaces.



Dia.	Arbor	Grit	Order No.	Std. Pkg.	Std. Ctn.
4 1/2"	7/8"	24	15-C 452	25	250
4 1/2"	7/8"	36	15-C 453	25	250
4 1/2"	7/8"	40	15-C 454	25	250
4 1/2"	7/8"	50	15-C 455	25	250
4 1/2"	7/8"	60	15-C 456	25	250
4 1/2"	7/8"	80	15-C 458	25	250
4 1/2"	7/8"	100	15-C 460	25	250
4 1/2"	7/8"	120	15-C 462	25	250
5"	7/8"	24	15-C 502	25	250
5"	7/8"	36	15-C 503	25	250
5"	7/8"	40	15-C 504	25	250
5"	7/8"	50	15-C 505	25	250
5"	7/8"	60	15-C 506	25	250
5"	7/8"	80	15-C 508	25	250
5"	7/8"	100	15-C 510	25	250
5"	7/8"	120	15-C 512	25	250
7"	7/8"	24	15-C 702	25	250
7"	7/8"	36	15-C 703	25	250
7"	7/8"	40	15-C 704	25	250
7"	7/8"	50	15-C 705	25	250
7"	7/8"	60	15-C 706	25	250
7"	7/8"	80	15-C 708	25	250
7"	7/8"	100	15-C 710	25	250
7"	7/8"	120	15-C 712	25	250



- ▷ Premium aluminum oxide abrasive grain blend
- ▷ High removal rate, cool cutting
- ▷ Most economical choice for finishing applications on steel
- ▷ The greatest selection of grit sizes of any Walter sanding disc

## Tech tip!

Use Coolcut sanding discs with an orange backing pad to achieve a consistent scratch pattern for finishing operations.





### Accessories

#### Steel flanges

Reducer from 1" to 5/8" spindle

Order No. 15-G 962



## COOLCUT™ FLAP WHEELS

Excellent for weld blending and general finishing work. Mounted with a pair of flanges for use on straight shaft or bench grinders.



Dia.	Width	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
6 1/2"	1"	1"	60	15-G 206	5,200	1	10
6 1/2"	1"	1"	80	15-G 208	5,200	1	10
6 1/2"	1"	1"	120	15-G 212	5,200	1	10
6 1/2"	2"	1"	60	15-G 306	5,200	1	10
6 1/2"	2"	1"	80	15-G 308	5,200	1	10
6 1/2"	2"	1"	120	15-G 312	5,200	1	10



### GRIT - FEPA EQUIVALENT

Medium	150
Fine	180
Extra fine	220
Extra fine, flexible	220
Polishing	360

### Accessories

#### Reducer bushing

1" wide, from 1 1/4" to 1", 3/4", 5/8", 1/2".

Order No. 12-E 010



#### Mandrel for finishing wheels

Plastic, 8 mm shaft, self-expanding, flush mounting for 1" thick wheels

Order No. 07-C 003



## TWO-IN-ONE™ FLAP WHEELS

Combine two steps in one. The Two-In-One™ flap wheels remove material nearly as fast as regular flap wheels while leaving a finer finish.



Dia.	Width	Shaft thread Arbor	Grit	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
2"	1"	1/4"	Fine	15-E 124	12,000	8,400	1	10
2"	1"	1/4"	Extra fine	15-E 126	12,000	8,400	1	10
3"	1 3/4"	1/4"	Medium	15-E 162	8,000	5,600	1	10
3"	1 3/4"	1/4"	Fine	15-E 164	8,000	5,600	1	10
3"	1 3/4"	1/4"	Extra fine	15-E 166	8,000	5,600	1	10
3"	1 3/4"	1/4"	Extra fine, flex.	15-E 167	8,000	5,600	1	10
3"	1 3/4"	1/4"	Polishing	15-E 168 *	8,000	5,600	1	10
3"	1 1/2"	1/4"-20	Medium	15-E 652	8,000	5,600	1	10
3"	1 1/2"	1/4"-20	Fine	15-E 654	8,000	5,600	1	10
3"	1 1/2"	1/4"-20	Extra fine	15-E 656	8,000	5,600	1	10
3"	1 1/2"	1/4"-20	Polishing	15-E 658 *	8,000	5,600	1	10
6"	1"	1 1/4"	Fine	15-E 295	3,600	2,500	1	10
6"	1"	1 1/4"	Extra fine	15-E 296	3,600	2,500	1	10

\* BLENDEX non-woven material only.

# COOLCUT™ FLAP WHEELS

High quality and a consistent finish

COOLCUT™ flap wheels are ideal for general purpose blending, shaping and deburring. They are made from the highest quality abrasive grains and are perfectly balanced to provide a uniform, grained satin finish. No matter the application, COOLCUT™ Flap Wheels provide consistently excellent results.

## 1/4" SHAFT



Dia.	Width	Grit	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
1"	3/8"	40	15-F 054	30,000	27,500	10	100
1"	3/8"	60	15-F 056	30,000	27,500	10	100
1"	3/8"	80	15-F 058	30,000	27,500	10	100
1"	3/8"	120	15-F 062	30,000	27,500	10	100
1"	1"	40	15-F 154	30,000	27,500	10	100
1"	1"	60	15-F 156	30,000	27,500	10	100
1"	1"	80	15-F 158	30,000	27,500	10	100
1"	1"	120	15-F 162	30,000	27,500	10	100
1 1/2"	3/8"	40	15-F 004	25,000	19,100	10	100
1 1/2"	3/8"	60	15-F 006	25,000	19,100	10	100
1 1/2"	3/8"	80	15-F 008	25,000	19,100	10	100
1 1/2"	3/8"	120	15-F 012	25,000	19,100	10	100
1 1/2"	1"	40	15-F 104	25,000	19,100	10	100
1 1/2"	1"	60	15-F 106	25,000	19,100	10	100
1 1/2"	1"	80	15-F 108	25,000	19,100	10	100
1 1/2"	1"	120	15-F 112	25,000	19,100	10	100
1 1/2"	1"	240	15-F 124	25,000	19,100	10	100
2 1/2"	1 1/2"	40	15-F 504	20,000	12,700	10	100
2 1/2"	1 1/2"	60	15-F 506	20,000	12,700	10	100
2 1/2"	1 1/2"	80	15-F 508	20,000	12,700	10	100
2 1/2"	1 1/2"	120	15-F 512	20,000	12,700	10	100
2 1/2"	1 1/2"	240	15-F 524	20,000	12,700	10	100
2"	3/8"	40	15-F 204	25,000	15,200	10	100
2"	3/8"	60	15-F 206	25,000	15,200	10	100
2"	3/8"	80	15-F 208	25,000	15,200	10	100
2"	3/8"	120	15-F 212	25,000	15,200	10	100
2"	1"	40	15-F 304	25,000	15,200	10	100
2"	1"	60	15-F 306	25,000	15,200	10	100
2"	1"	80	15-F 308	25,000	15,200	10	100
2"	1"	120	15-F 312	25,000	15,200	10	100
2"	1"	240	15-F 324	25,000	15,200	10	100
3"	1"	40	15-F 704	15,000	8,900	10	100
3"	1"	60	15-F 706	15,000	8,900	10	100
3"	1"	80	15-F 708	15,000	8,900	10	100
3"	1"	120	15-F 712	15,000	8,900	10	100
3"	1 1/2"	40	15-F 804	15,000	8,900	10	100
3"	1 1/2"	60	15-F 806	15,000	8,900	10	100
3"	1 1/2"	80	15-F 808	15,000	8,900	10	100
3"	1 1/2"	120	15-F 812	15,000	8,900	10	100
3"	1 1/2"	240	15-F 824	15,000	8,900	10	100
3"	2"	40	15-F 904	11,000	8,900	10	100
3"	2"	60	15-F 906	11,000	8,900	10	100
3"	2"	80	15-F 908	11,000	8,900	10	100
3"	2"	120	15-F 912	11,000	8,900	10	100





**Hand pads:**

- ▷ Pads are washable and can be reused
- ▷ Replace steel wool with no rusting, splintering or contamination of the workpiece



**Rolls:**

- ▷ Can easily be cut into strips of desired size
- ▷ For manual or machine operations
- ▷ Ideal for removing rust and corrosion

# BLENDEX™ HAND FINISHING ABRASIVES

Flexible rolls and sheets for general purpose sanding, deburring, surface cleaning and finishing. They easily adapt to irregular surfaces making them indispensable in repair or maintenance applications.



**HAND PADS**

Size	Order No.	Color	Type	Std. Pkg.
6" × 9"	07-A 100	Maroon	Blending	60
6" × 9"	07-A 200	Grey	Finishing/Polishing	60
6" × 9"	07-A 300	Tan	Heavy-duty	60
6" × 9"	07-A 400	Green	General purpose	60
6" × 9"	07-A 500	White	Cleaning	60

**Accessory**

**Hand pad holder**

With molded hook pattern for positive pad holding and easy grip handle

3" × 6"

Order No. 07-A 001



**ROLLS**



Width	Lenght	Order No.	Color	Type	Std. Pkg.	Std. Ctn.
4"	30'	07-B 104	Maroon	Blending	1	10
4"	30'	07-B 204	Grey	Finishing/Polishing	1	10
4"	30'	07-B 304	Tan	Heavy-duty	1	10
4"	30'	07-B 404	Green	General purpose	1	10
4"	30'	07-B 504	White	Cleaning	1	10

**Tech tip!**

Use white hand pad (OrderNo.: 07-A 500) or roll (Order No.: 07-B 504) with SURFOX Pre-Weld to clean soiled surfaces.



**SURFOX Pre-Weld**  
Order No. 54-A 083

## COOLCUT™ SHOP ROLLS AND SHEETS

These premium shop rolls are a cut above the rest. With a fast cutting aluminum oxide abrasive grain bonded onto a high quality J-weight cloth, they are designed to remove material quickly while also maintaining a high degree of flexibility. Best of all, this design keeps the workpiece cool, minimizing wear and extending the life of the shop roll while making it safe to use on all metals.

### SHOP ROLLS



Width	Length	Grit	Order No.	Std. Pkg.	Std. Ctn.
1"	50 yards	60	14-C 106	1	10
1"	50 yards	80	14-C 108	1	10
1"	50 yards	100	14-C 110	1	10
1"	50 yards	120	14-C 112	1	10
1"	50 yards	180	14-C 118	1	10
1"	50 yards	240	14-C 124	1	10
1"	50 yards	320	14-C 132	1	10
1 ½"	50 yards	60	14-C 206	1	10
1 ½"	50 yards	80	14-C 208	1	10
1 ½"	50 yards	100	14-C 210	1	10
1 ½"	50 yards	120	14-C 212	1	10
1 ½"	50 yards	180	14-C 218	1	10
1 ½"	50 yards	240	14-C 224	1	10
1 ½"	50 yards	320	14-C 232	1	10
2"	50 yards	60	14-C 306	1	10
2"	50 yards	80	14-C 308	1	10
2"	50 yards	100	14-C 310	1	10
2"	50 yards	120	14-C 312	1	10
2"	50 yards	180	14-C 318	1	10
2"	50 yards	240	14-C 324	1	10
2"	50 yards	320	14-C 332	1	10



- ▷ Premium J-weight cloth backing for long life and flexibility
- ▷ Ideal for use in maintenance shops, machine shops, manufacturing plants and more
- ▷ Safe for use on all metals

### SHEETS



Dimensions	Grit	Order No.	Std. Pkg.	Std. Ctn.
9" x 11"	40	14-A 904	25	250
9" x 11"	60	14-A 906	25	250
9" x 11"	80	14-A 908	25	250
9" x 11"	100	14-A 910	25	250
9" x 11"	120	14-A 912	25	250
9" x 11"	180	14-A 918	25	250
9" x 11"	240	14-A 924	25	250
9" x 11"	320	14-A 932	25	250



- ▷ Woven backing is extra tough but tears straight for easy sizing
- ▷ Long lasting and cool cutting

Visit The Walter Network for tips and shortcuts for the most common industrial finishes using WALTER products.

Visit [www.youtube.com/thewalternetwork](http://www.youtube.com/thewalternetwork)

Scroll through the Walter Academy playlist to see our library of videos that save you time and help you work better.



Looking to go from a fresh TIG weld to a #4 brushed finish on a flat stainless steel surface? We recommend:

STEP 1



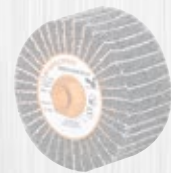
Quick-Step Flex 5" Grit 120  
no. 07-Q 512

STEP 2



Quick Step Blendex  
4-1/2" medium No. 07-R 453

STEP 3



Two-in-one drum 4-1/2"  
2" wide No. 07-K 322

**Visit [walter.com](http://walter.com) to see all our finishing products!**

Learn how to achieve the most popular finishes starting from a MIG weld, TIG weld, 2B, mill finish, etc.

#4 sanitary brush  
finish on stainless  
steel video



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steel video



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structural aluminum  
video



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06

# FINISHING



# LINEAR SURFACE FINISHING SYSTEM



## The Line-Mate linear surface finishing system

is the most versatile tool for applications that involve applying a linear scratch pattern. Line-Mate features a complete range of innovative abrasives designed to match any linear finish and reduce your finishing costs. Whether you work with stainless steel, aluminum, brass, copper or other alloys, Line-Mate allows you to achieve the desired finish quickly and with minimal effort.

*This is the finish you get for each product if used on a 2B stainless steel surface.*



DRUMS	Product	Application	Product category	Type of finish	Pre-finishing	Coarse finish	Sanitary	Pharma	Light polish	Mirror finish
				Ra	(>60 $\mu\text{in}$ )	(60-50 $\mu\text{in}$ )	(40-25 $\mu\text{in}$ )	(16-12 $\mu\text{in}$ )	(8-4 $\mu\text{in}$ )	(4-1 $\mu\text{in}$ )
				Grit size						
	FX Drums @2000 RPM	Cleaning	07-L	Coarse						
	COOLCUT Flap Drums @2000 RPM	Graining	07-J	40						
				60						
				80						
				120						
	BLENDEX Drums @2000 RPM	Finishing	07-M	Coarse						
				Medium						
				Fine						
				Super Fine						
				Ultra Fine						
2-in-1 TURBO Drums @2000 RPM	Graining	07-K	60							
2-in-1 Drums @2000 RPM	Linear finishing	07-K	80							
Buffing Drums and polishing pastes @2000 RPM	Applying a mirror finish	07-T + paste	Instant Polish 1000-1500							
		07-T + paste	Ultimate Shine 2000-2500							

BELTS	Product	Application	Product category	Type of finish	Pre-finishing	Coarse finish	Sanitary	Pharma	Light polish	Mirror finish
				Ra	(>60 $\mu\text{in}$ )	(60-50 $\mu\text{in}$ )	(40-25 $\mu\text{in}$ )	(16-12 $\mu\text{in}$ )	(8-4 $\mu\text{in}$ )	(4-1 $\mu\text{in}$ )
				Grit size						
	Cloth Drum Belts @2000 RPM	Removing deep scratches (stock removal)	07-F	40						
				60						
				80						
				120						
	Blendex Drum Belts @2000 RPM	Graining and finishing	07-H	Coarse						
				Medium						
				Fine						
				Super Fine						
	High Polish Drum Belts, Instant Polish Drum Belts and polishing pastes	Applying a mirror finish	07-T + paste	Instant Polish 1000-1500						
			07-T + paste	Ultimate Shine 2000-2500						



# LINE-MATE LINEAR SURFACE FINISHING SYSTEM

The professional choice for applying a linear finish

The Line-Mate III surface finishing system is the most versatile method for all applications where a linear scratch pattern is required. Whether you need to grind, sand, clean, buff or polish a metal surface, this system offers the most complete range of products to match the desired surface finish.

*Line-Mate III High efficiency drum sander  
(See p. 170 for details)*

*Pneumatic drum and belts*



*Drive roller and T-lock™ belts - for pipes, tubing and railings*

*Drums*



- ▷ *Ideal for graining and light metal removal and as a first step in the finishing process*
- ▷ *Will give a consistent and uniform finish*
- ▷ *Will not load or glaze*



- ▷ *Combine two finishing steps into one: The coated abrasive cloth cuts aggressively while the interweaved BLENDEX flaps produce a satin linear finish*



- ▷ *Removes like a grinding belt while the interweaved BLENDEX flaps produce a No. 3 finish*

## COOLCUT™ FLAP DRUMS



Dia.	Width	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/4"	2"	5/8"-11	40	07-J 424	3,800	1	10
4 1/4"	2"	5/8"-11	60	07-J 426	3,800	1	10
4 1/4"	2"	5/8"-11	80	07-J 428	3,800	1	10
4 1/4"	2"	5/8"-11	120	07-J 432	3,800	1	10
4 1/4"	4"	5/8"-11	40	07-J 444	3,800	1	10
4 1/4"	4"	5/8"-11	60	07-J 446	3,800	1	10
4 1/4"	4"	5/8"-11	80	07-J 448	3,800	1	10
4 1/4"	4"	5/8"-11	120	07-J 452	3,800	1	10

## TWO-IN-ONE™ DRUMS



Dia.	Width	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/4"	2"	5/8"-11	80	07-K 322	3,800	1	10
4 1/4"	4"	5/8"-11	80	07-K 342	3,800	1	10
4 1/2"	2"	5/8"-11	80	07-K 422	3,800	1	10
4 1/2"	4"	5/8"-11	80	07-K 442	3,800	1	10

## TWO-IN-ONE™ TURBO DRUMS



Dia.	Width	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	2"	5/8"-11	60	07-K 421	3,800	1	10
4 1/2"	4"	5/8"-11	60	07-K 441	3,800	1	10

## BLENDEx™ DRUMS



Dia.	Width	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/4"	2"	5/8"-11	Coarse	07-M 322	3,800	1	10
4 1/4"	2"	5/8"-11	Medium	07-M 323	3,800	1	10
4 1/4"	2"	5/8"-11	Fine	07-M 324	3,800	1	10
4 1/4"	4"	5/8"-11	Coarse	07-M 342	3,800	1	10
4 1/4"	4"	5/8"-11	Medium	07-M 343	3,800	1	10
4 1/4"	4"	5/8"-11	Fine	07-M 344	3,800	1	10
4 1/2"	2"	5/8"-11	Coarse	07-M 422	3,800	1	10
4 1/2"	2"	5/8"-11	Medium	07-M 423	3,800	1	10
4 1/2"	2"	5/8"-11	Fine	07-M 424	3,800	1	10
4 1/2"	2"	5/8"-11	Super fine	07-M 425	3,800	1	10
4 1/2"	4"	5/8"-11	Coarse	07-M 442 *	3,800	1	10
4 1/2"	4"	5/8"-11	Medium	07-M 443 *	3,800	1	10
4 1/2"	4"	5/8"-11	Fine	07-M 444	3,800	1	10
4 1/2"	4"	5/8"-11	Super fine	07-M 445	3,800	1	10
4 1/2"	4"	5/8"-11	Ultra fine	07-M 446 **	3,800	1	10

\* 07-M 442 and 07-M 443: Now with "Perfect Brushed Finish" technology. Exclusive to Walter, this technology provides a shadow-free finish right from the start.

\*\* Ultra-Fine HG (High Gloss) drums are ideal for enhancing and brightening existing finishes, taking out stains in metals and bringing out a new lustre in work surfaces.



▷ Can be used to polish, burnish, blend, deburr, clean and brighten stainless steel, aluminum, brass, copper and other alloys



▷ Blendex High Density (HD) drums are for demanding applications like deburring or working on outside corners as they are denser and have a longer life

## BLENDEx HD™ DRUMS



Dia.	Width	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	2"	5/8"-11	Coarse	07-M 411	3,800	1	10

## INOX TAPE

Excellent for a perfect mitred corner finish

Lenght	Width	Thick.	Order No.	Std. Pkg.
16' 3/8"	1 3/64"	3/500"	07-T 100	1

▷ Thin stainless steel tape with adhesive strip  
▷ Use only on cool surfaces



## BUFFING DRUMS



Dia.	Width	Arbor	Grit	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 3/4"	2"	5/8"-11	Multi-ply cotton	07-T 425	3,800	1,700 to 2,200	1	10
4 3/4"	2"	5/8"-11	Fold cotton	07-T 427	3,800	1,700 to 2,200	1	10

Use with polishing pastes.



Harder multi-ply

Softer fold

▷ Ideal for enhancing and brightening existing finishes, taking out stains in metals and bringing out a new lustre in work surfaces  
▷ Use with polishing pastes for a mirror finish

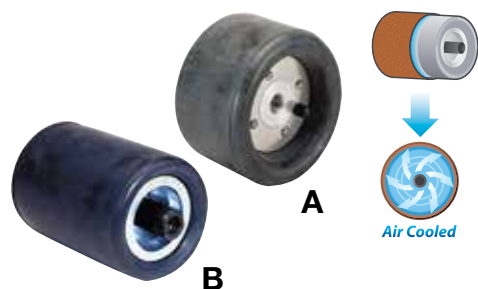
▷ Popular applications include upgrading of #4 finishes, polishing to a food grade finish, repairing minor scratches, etc.



## HIGH POLISH DRUM BELTS

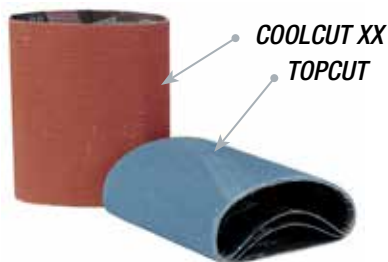


Width	Lenght	Dia.	Color	Order No.	Std. Pkg.	Std. Ctn.
5 3/8"	11 5/8"	3 1/2"	White	07-T 530	1	10
3 1/2"	15 1/2"	5"	Yellow	07-T 534	1	10
5 3/8"	11 5/8"	3 1/2"	Yellow	07-T 534	1	10



Put a cushion of air between your abrasives to:

- ▷ **Eliminate edge cutting and swirl marks**
- ▷ **Increase sandpaper life by reducing heat build-up**
- ▷ **Allow more flexibility – conforms to curved surfaces**



- ▷ **Allows you to create or restore linear finishes, level off small welds, round corners, remove deep scratches, etc.**
- ▷ **Equipped with taped butt-joints for longer life and higher removal rates**



- ▷ **Coarse:** For tough cleaning or removing rust and small scratches
- ▷ **Medium:** For conditioning and removing surface imperfections
- ▷ **Fine:** For fine surface refinements
- ▷ **Super fine:** Use to produce decorative finishes or as a last step before applying a mirror finish

## PNEUMATIC DRUMS

### Accessories

Photo	Width	Dia.	Arbor	Max. RPM	Order No.
A	3 1/2"	5"	5/8"-11	3,800	07-F 037*
B	5 3/8"	3 1/2"	5/8"-11	3,800	07-F 051
*MUST USE extension for pneumatic drum A					08-B 009

### Replacement rubber bladder assemblies

3 1/2" x 5" (for drum A)	07-F 093
5 3/8" x 3 1/2" (for drum B)	07-F 095
Drum Inflator	07-F 014
Valve core for both drums	07-F 013

### Rubber cleaning stick



Prolongs the life of drum belts by removing build-up 14-E 001

## TOPCUT™ AND COOLCUT XX™ DRUM BELTS



Width	Length	Dia.	Grit	Order No.	Std. Pkg.	Std. Ctn.
3 1/2"	3 1/2"	5"	40 TOPCUT	07-F 364	5	100
3 1/2"	3 1/2"	5"	60 COOLCUT XX	07-F 366	5	100
3 1/2"	3 1/2"	5"	80 COOLCUT XX	07-F 368	5	100
3 1/2"	3 1/2"	5"	120 COOLCUT XX	07-F 371	5	100
5 3/8"	11 5/8"	3 1/2"	40 TOPCUT	07-F 504	5	100
5 3/8"	11 5/8"	3 1/2"	60 COOLCUT XX	07-F 506	5	100
5 3/8"	11 5/8"	3 1/2"	80 COOLCUT XX	07-F 508	5	100
5 3/8"	11 5/8"	3 1/2"	120 COOLCUT XX	07-F 511	5	100

## BLENDEX™ DRUM BELTS



Width	Length	Dia.	Grit	Order No.	Std. Pkg.	Std. Ctn.
3 1/2"	15 1/2"	5"	Coarse	07-H 362	1	10
3 1/2"	15 1/2"	5"	Medium	07-H 363	1	10
3 1/2"	15 1/2"	5"	Fine	07-H 364	1	10
3 1/2"	15 1/2"	5"	Super fine	07-H 365	1	10
5 3/8"	11 5/8"	3 1/2"	Coarse	07-H 502	1	10
5 3/8"	11 5/8"	3 1/2"	Medium	07-H 503	1	10
5 3/8"	11 5/8"	3 1/2"	Fine	07-H 504	1	10
5 3/8"	11 5/8"	3 1/2"	Super fine	07-H 505	1	10



- ▷ Achieve a #8 mirror finish in just one step
- ▷ The polishing paste comes pre-applied on the belt
- ▷ Packed in a resealable bag that protects the belt from contaminants and drying



- ▷ Ideal for cleaning or finishing pipes, tubes and railings
- ▷ Produces a new sheen on tarnished pipes
- ▷ T-Lock allows quick and easy access when finishing closed loop workpieces

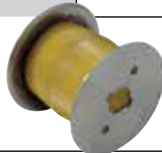


#### Accessory

##### Belt drive roller

3 1/4" x 2 3/4" x 5/8"-11

Order No. 07-F 002



- ▷ Allows you to use T-Lock belts with the Line-Mate III tool for finishing pipes, tubing and railing



## INSTANT POLISH™ DRUM BELTS

One-Step solution for achieving a #8 mirror finish



Width	Lenght	Dia.	Order No.	Std. Pkg.	Std. Ctn.
3 1/2"	5 1/2"	5"	07-T 336	1	10
5 3/8"	11 5/8"	3 1/2"	07-T 536	1	10

## BLENDEX™ T-LOCK BELTS



Width	Lenght	Grit	Color	Order No.	Std. Pkg.	Std. Ctn.
1 3/16"	24"	Coarse	Tan	07-H 242	3	48
1 3/16"	24"	Medium	Maroon	07-H 243	3	48
1 3/16"	24"	Fine	Blue	07-H 244	3	48
1 3/16"	24"	Super fine	Grey	07-H 245	3	48

## T-LOCK POLISHING FELT BELT



Width	Lenght	Color	Order No.	Std. Pkg.	Std. Ctn.
1 3/16"	24"	White	07-T 225	3	48

Use with polishing paste.



## HAND RAIL FINISHING KIT

Order No. 07-H 992

#### Includes:

- 1 Belt Drive Roller (07-F 002)
- 4 BLENDEX strip belts:
  - 1 coarse (07-H 242)
  - 1 medium (07-H 243)
  - 1 fine (07-H 244),
  - 1 super fine (07-H 245).

## FX™ FLEX DRUMS

Clean welds and finish the surface in one step

Use the new FX™ FLEX drum to easily clean TIG and MIG welds while leaving a fine #4 finish on your metal surfaces. This product is ideal for cleaning uneven surfaces like checker plate. FX™ FLEX drums are made with a lower density material which allows you to achieve a perfectly uniform fine #4 finish on your metal surfaces. Save time and replace multiple tools with just one with the new FX™ FLEX drums.



Dia.	Width	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	2"	5/8"-11	Flex coarse	07-L 422	3,800	1	10
4 1/2"	4"	5/8"-11	Flex coarse	07-L 442	3,800	1	10

### FX™ DRUMS



Dia.	Width	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	2"	5/8"-11	Coarse	07-L 420	3,800	1	10
4 1/2"	4"	5/8"-11	Coarse	07-L 440	3,800	1	10

### FX™ DRUMS REVERSIBLE



Dia.	Width	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	4"	5/8"-11	Coarse	07-L 441	3,800	1	10

### LINEAR CRIMPED BRUSHES



Dia.	Width	Arbor	Wire size	Wire type	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	2"	5/8"-11	.01"	Tempered steel	13-M 454	4,000	1	10

### LINEAR CRIMPED BRUSHES



Dia.	Width	Arbor	Wire size	Wire type	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	2"	5/8"-11	.01"	S/S 304	13-M 464	4,000	1	10

## LINE-MATE III™ SYSTEM

Linear finishing made easy

The Line-Mate III™ is a versatile variable speed tool that allows you to quickly and easily apply a wide range of linear finishes to metal surfaces. Its powerful motor will help you complete even the toughest jobs with ease. RPM remains constant under load for a consistent and uniform finish every time. When you have a project that requires a linear scratch pattern applied to the surface, trust Line-Mate to get the job done quickly and efficiently.

#### Includes:

- 1 Line-Mate III™ with standard equipment plus carrying case
- 1 pneumatic drum (07-F 051)
- 6 cloth drum belts (2 each grit: 60: 07-F 506, 80: 07-F 508 and 120: 07-F 511)
- 2 BLENDEX drum belts (Coarse: 07-H 502, medium: 07-H 503)
- 1 TWO-IN-ONE drum (4 1/4" x 4": 07-K 342)
- 1 BLENDEX drum (4 1/4" x 4" medium: 07-M 343)

Model	Order No.	Spindle RPM	Thread	Motor	Amps	Weight
6268 KIT	30-A 269	1,000–3,800	5/8"-11	120V A.C. only	12.4 A	16 lbs



- ▷ More flexible non woven mesh – cleans any uneven surface
- ▷ Clean TIG and MIG welds and leave a fine #4 finish
- ▷ Perfect on stainless steel



- ▷ Open web-like construction assures cool operation that resists loading
- ▷ Will strip paint with ease, remove rust and scale
- ▷ Firm coarse non-woven flaps for tough cleaning applications



- ▷ Reversible for uniform wear on uneven surfaces



- ▷ Perfect for a ready-to-paint finish
- ▷ Cleans large surfaces faster
- ▷ Provides a smooth linear finish
- ▷ The best solution to clean uneven surfaces

- ▷ Follows the direction of the grain
- ▷ The fastest way to clean oxidized and discolored welds



# RAIL-MATE™

Remove welds and finish pipes, tubes and railings faster

The RAIL-MATE™ allows you to use our premium abrasive products in a new belt format to finish pipes, tubes and railings. This powerful finishing tool features variable speed settings so that you can tackle any job from blending welds or heavy stock removal all the way to polishing and finishing surfaces. Easily create a linear scratch pattern around the circumference of pipes, tubes and rails with RAIL-MATE™.

See page 171 for more details.



**TACKLE ANY APPLICATION**  
FROM HEAVY STOCK  
REMOVAL TO POLISHING

### Benefits

- ▷ Allows you to quickly switch between abrasives to take time and cost out of finishing jobs
- ▷ Durable industrial tool that is built to last, saving you from having to replace your power tools every few months
- ▷ Designed to exceed all safety standards, creating a safer work environment

### Features

- ▷ Dialspeed™ variable speed control allows you to quickly go from 1,600-3,200 RPM to tackle any application from heavy stock removal to polishing
- ▷ Powerful 1,200W industrial motor with Dynamax™ RPM monitoring to maintain constant RPM under load
- ▷ Soft Start™ technology helps to avoid kickback when starting the tool

### Tech tip!

Use faster speeds for heavy stock removal and lower speeds for finishing.

**Finish (roughness average) obtained when using each product on 2B stainless steel surface.**



Product	Application	Product category	Type of finish	Pre-finishing	Coarse finish	Sanitary	Pharma	Light polish	Mirror finish
			Ra	(>60 μin)	(60-50 μin)	(40-25 μin)	(16-12 μin)	(8-4 μin)	(4-1 μin)
COOLCUT XX Drums	Blending	14-X	Grit size						
			40	■					
			60		■				
			80			■			
BLENDEX Belts	Surface conditioning	07-D	Coarse		■	■			
			Medium				■		
			Fine					■	
High Polish Belts	Mirror finishing	07-T + paste	Instant Polish 1000-1500						■
		07-T + paste	Ultimate Shine 2000-2500						

## COOLCUT XX BELTS

For heavy stock removal

These coated abrasive belts use our exclusive Cyclone™ Technology with a premium ceramic abrasive grain blend to provide an extremely aggressive removal rate and long working life. This means you can remove weld beads and finish surfaces faster, reducing cycle time and taking labor time and cost out of the operation.

### COOLCUT XX RAIL-MATE BELTS



Width	Lenght	Grit	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
1 ½"	30"	40	14-X 154	3,200	2,900	5	100
1 ½"	30"	60	14-X 156	3,200	2,900	5	100
1 ½"	30"	80	14-X 158	3,200	2,900	5	100
1 ½"	30"	120	14-X 162	3,200	2,900	5	100

## BLENDEX BELTS

For surface conditioning and removing fine scratches

Our proprietary BLENDEX belts outlast the competition and provide a consistent, uniform surface finish throughout the life of the belt. These non-woven belts excel at removing scratches and light corrosion or oxidation from stainless steel or aluminum tubes, rails or pipes.

### BLENDEX RAIL-MATE BELTS



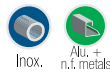
Width	Lenght	Grit	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
1 ½"	30"	Coarse	07-D 152	3,200	2,500	5	100
1 ½"	30"	Medium	07-D 153	3,200	2,500	5	100
1 ½"	30"	Fine	07-D 154	3,200	2,500	5	100

## POLISHING BELTS

For applying a decorative or mirror finish

These durable belts are made of a special material that allows you to apply up to a #8 mirror finish with the use of our polishing pastes.

### RAIL-MATE POLISHING BELTS



Width	Lenght	Color	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
1 ½"	30"	Yellow	07-T 220	3,200	1,600	5	20

## POLISHING PASTES

For use with felt, high polish and instant polish discs



Name	Order No.	Weight	Grit	Std. Ctn.
White paste	07-T 901	600 g	1200-1500	10
Blue paste	07-T 905	650 g	2000	10
Instant polish paste	07-T 907	1200 g	1000-1500	5
Ultimate Shine™ paste	07-T 909	1300 g	2000-2500	5



### Benefits

- ▷ Reduce cycle time to take labor time and cost out of the job
- ▷ Long lasting performance to avoid frequent belt change outs and trips to the tool crib
- ▷ Consistent removal rate and surface finish throughout the life of the belt

### Features

- ▷ Premium Cyclone™ Technology ceramic abrasive grain blend for the fastest removal and longest life in the industry
- ▷ Flexible cloth backing for any curved surface
- ▷ Guaranteed not to contaminate stainless steel (Fe-S-CL free)



### Benefits

- ▷ Long lasting product that outlasts and outperforms the competition
- ▷ Quickly produces a new sheen on tarnished pipes
- ▷ Safe for use on all common metals and alloys

### Features

- ▷ Non-woven design ensures consistent performance from start to finish
- ▷ Premium abrasive grain blend for maximum performance
- ▷ Will not clog or load on aluminum and other non-ferrous metals



### Features

- ▷ Durable construction provides a long working life
- ▷ Extremely flexible to provide a superior surface finish



## COATED ABRASIVE FILE BELTS

Walter offers a complete line of file belts for general purpose sanding, light weld removal, surface cleaning, blending, deburring and finishing of intricate shapes and profiles. An extra heavy-duty backing (Y-polyester) with a special butt-joint and glue ensure the longest belt life even in the most demanding applications.

- ▷ *Made with premium abrasive grain blends for fast material removal on all metal surfaces*
- ▷ *Excellent for contour and shape sanding applications requiring flexibility and fray resistance*



TOPCUT+

INOX+

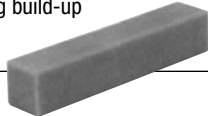
- ▷ *Made from top quality grain for sanding and finishing of stainless steel*
- ▷ *Leaves a smooth and bright surface finish*

### Accessory

#### Rubber cleaning stick

Prolongs the life of drum belts by removing build-up

Order No. 14-E 001



## NON-WOVEN ABRASIVE FILE BELTS

Assortment of non-woven abrasive file belts made with special reinforced nylon and abrasive grain to achieve a consistent and uniform finish. Conform to irregular surfaces with minimal smearing and discoloration of the workpiece.



- ▷ *Will not gouge or burn surfaces*
- ▷ *Specially formulated to resist loading and heat build-up*
- ▷ *Very flexible and suitable for edge finishing*
- ▷ *High performance butt joint eliminates breakage*

### TOPCUT+ FILE BELTS



Width	Lenght	Grit	Order No.	Std. Pkg.	Std. Ctn.
1/2"	18"	36	14-D 033	25	200
1/2"	18"	60	14-D 036	25	200
1/2"	18"	80	14-D 038	25	200
1/2"	24"	36	14-D 053	25	200
1/2"	24"	60	14-D 056	25	200
1/2"	24"	80	14-D 058	25	200
3/4"	18"	36	14-D 103	25	200
3/4"	18"	60	14-D 106	25	200
3/4"	18"	80	14-D 108	25	200
3/4"	24"	36	14-D 123	25	200
3/4"	24"	60	14-D 126	25	200
3/4"	24"	80	14-D 128	25	200

### INOX+ FILE BELTS



Width	Lenght	Grit	Order No.	Std. Pkg.	Std. Ctn.
1/2"	18"	36	14-B 033	25	200
1/2"	18"	60	14-B 036	25	200
1/2"	18"	80	14-B 038	25	200
1/2"	18"	120	14-B 042	25	200
1/2"	24"	36	14-B 053	25	200
1/2"	24"	60	14-B 056	25	200
1/2"	24"	80	14-B 058	25	200
1/2"	24"	120	14-B 062	25	200
3/4"	18"	36	14-B 103	25	200
3/4"	18"	60	14-B 106	25	200
3/4"	18"	80	14-B 108	25	200
3/4"	18"	120	14-B 112	25	200
3/4"	24"	36	14-B 123	25	200
3/4"	24"	60	14-B 126	25	200
3/4"	24"	80	14-B 128	25	200
3/4"	24"	120	14-B 132	25	200

### BLENDEX+™ FILE BELTS



Width	Lenght	Grit	Order No.	Std. Pkg.	Std. Ctn.
1/2"	18"	Coarse	07-D 032	10	50
1/2"	18"	Medium	07-D 033	10	50
1/2"	18"	Very fine	07-D 034	10	50
1/2"	24"	Coarse	07-D 052	10	50
1/2"	24"	Medium	07-D 053	10	50
1/2"	24"	Very fine	07-D 054	10	50
3/4"	18"	Coarse	07-D 102	10	50
3/4"	18"	Medium	07-D 103	10	50
3/4"	18"	Very fine	07-D 104	10	50
3/4"	24"	Coarse	07-D 122	10	50
3/4"	24"	Medium	07-D 123	10	50
3/4"	24"	Very fine	07-D 124	10	50



# CIRCULAR FINISHING QUICK-STEP SYSTEM



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

## For all your surface finishing needs!

Whether you are blending in welds, cleaning surfaces, refining and enhancing existing finishes or bringing out a mirror finish on stainless steel, steel, aluminum or any other ferrous and non-ferrous metals, Walter provides a complete line of tools for the art of metalworking!

*This is the finish you get for each product if used on a 2B stainless steel surface.*



Product	Application	Product category	Type of finish	Pre-finishing	Coarse finish	Sanitary	Pharma	Light polish	Mirror finish
			Ra	(>60 μin)	(60-50 μin)	(40-25 μin)	(16-12 μin)	(8-4 μin)	(4-1 μin)
			Grit size						
Quick-Step FX@5000 RPM	Cleaning	07-X	Coarse						
			Quick-Step Flex@7000 RPM	40					
				60					
				80					
Quick-Step XX@5000 RPM	Blending and surface conditioning	15-V	120						
			180						
			240						
Quick-Step Blendex@5000 RPM	Surface conditioning	07-R	X-tra Coarse						
			Coarse						
			Medium						
			Fine						
			Super fine						
Quick-Step Felt and Quick-Step High Polish with polishing pastes@2000 RPM	Mirror finishing	07-T + paste	Instant Polish 1000-1500						
		07-T + paste	Ultimate Shine 2000-2500						



Learn how to achieve the perfect finish every time with our online videos at

[www.youtube.com/thewalternetwork](http://www.youtube.com/thewalternetwork)

## QUICK-STEP™ METAL SURFACE FINISHING SYSTEM

Reduce the number of steps required to achieve the desired finish. From sanitary to pharmaceutical to mirror finishes, our QUICK-STEP™ abrasives will help you to efficiently achieve the finish you are looking for in fewer steps, reducing your cycle time and saving you time and money.



High Efficiency QUICK-STEP sander/polisher (See p. 169 for details)



Hook and loop fastening system for quick disc change outs between finishing steps

Simply center pin on the backing pad and mount QUICK-STEP disc

## QUICK-STEP™ BACKING PADS

This patented backing pad is the heart of the QUICK-STEP system. It is made of industrial strength nylon that is guaranteed to retain its strength and flexibility even at elevated temperatures. Disc changes take only seconds.



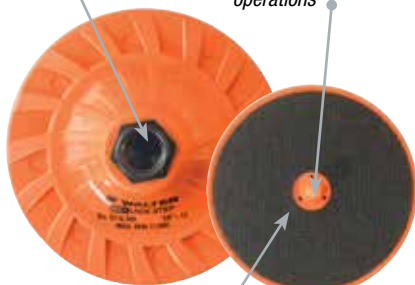
### QUICK-STEP MG BACKING PADS

For maximum grip when working at high speeds. Use this backing pad with BLENDEX surface conditioning discs for best results

Pad dia.	For disc dia.	Thread	Order No.	Std. Pkg.	Std. Ctn.
4 1/2"	4 1/2"	5/8"-11	07-Q 149	1	10
5"	5"	5/8"-11	07-Q 154	1	10
6"	6"	5/8"-11	07-Q 164	1	10
7"	7"	5/8"-11	07-Q 174	1	10

Built-in threaded arbor mounts directly onto grinder's spindle

Exclusive centering pin guarantees vibration-free operations



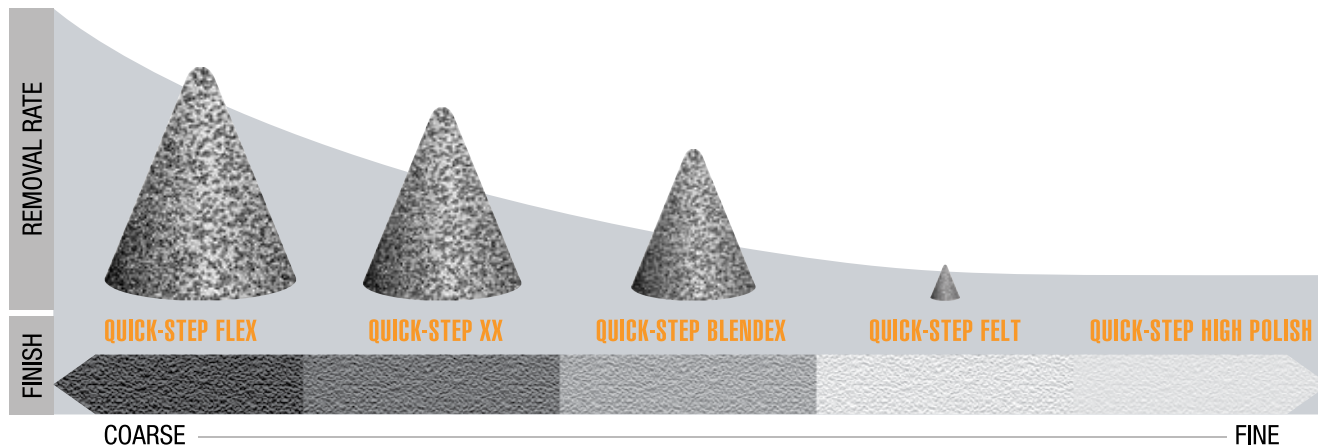
Torque resistant mushroom hooks hold discs securely in place

### QUICK-STEP BACKING PADS

Pad dia.	For disc dia.	Thread	Order No.	Std. Pkg.	Std. Ctn.
4"	4 1/2"	5/8"-11	07-Q 044	* 1	10
4 1/2"	4 1/2"	5/8"-11	07-Q 049	1	10
5"	5"	5/8"-11	07-Q 054	1	10
6"	6"	5/8"-11	07-Q 064	1	10
7"	7"	5/8"-11	07-Q 074	1	10

\* QUICK-STEP flap discs and FX cleaning discs can be used with backing pad one diameter size below for more flexibility, to reach into corners and to use up worn discs.

# QUICK-STEP™ METAL SURFACE FINISHING SYSTEM



## QUICK-STEP™ FX QUICK-STEP FX SURFACE CLEANING DISCS



Dia.	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	07-X 845	6,000	2,000 to 3,000	5	40
6"	07-X 860	6,000	2,000 to 3,000	5	40



- ▶ Extra strong non-woven construction for removing heavy paint, gaskets, sealing compounds, rust and scale from all metals
- ▶ Cleans without gouging or damaging the surface

## QUICK-STEP™ FLEX



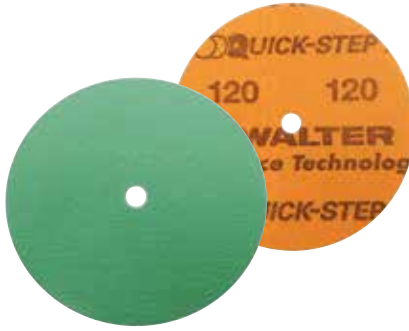
Dia.	Grit	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	40	07-Q 454	11,000	8,000	10	40
4 1/2"	60	07-Q 456	11,000	8,000	10	40
4 1/2"	80	07-Q 458	11,000	8,000	10	40
4 1/2"	120	07-Q 462	11,000	8,000	10	40
5"	40	07-Q 504	10,000	7,300	10	40
5"	60	07-Q 506	10,000	7,300	10	40
5"	80	07-Q 508	10,000	7,300	10	40
5"	120	07-Q 512	10,000	7,300	10	40
6"	40	07-Q 604	8,600	6,500	10	40
6"	60	07-Q 606	8,600	6,500	10	40
6"	80	07-Q 608	8,600	6,500	10	40
6"	120	07-Q 612	8,600	6,500	10	40



- ▶ For removing and blending in light welds, for deburring, breaking edges and rounding corners
- ▶ Aggressive, cool cutting and provides a consistent uniform finish
- ▶ Abrasive flaps are secured onto a flexible backing making them ideal for working on curved surfaces

### Tech tip!

Use a backing pad one size below disc diameter for even more flexibility!



- ▷ *Extra long life – 6x the stock removal compared to aluminum oxide sanding discs*
- ▷ *Ultra High Removal Rate – twice as fast as Velcro or PSA (pressure sensitive adhesive) sanding discs*
- ▷ *Self-sharpening grain – consistently high cutting rate throughout lifetime*
- ▷ *Cooling agent – prevents burning and distortion*
- ▷ *Extra strong cloth backing – Resistant to ripping when catching an edge, unlike regular paper discs*



- ▷ *Reclosable polishing paste tube with convenient push-through system to protect paste from contaminants*
- ▷ *Suitable for use in food processing industries*
- ▷ *Achieve a mirror finish with only one paste*
- ▷ *Packed in a resealable bag that preserves the paste from contaminants and drying*



## QUICK-STEP XX™ SANDING DISCS

This high performance sanding disc leverages our Cyclone™ Technology, a hightech blend of abrasive grains, and combines it with a special cooling agent. This allows you to blend and finish more pieces to improve productivity. Paired with an interface pad, this sanding disc allows for more flexibility, making it ideal for curved surfaces.



Dia.	Grit	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 ½"	120	15-V 412	7,400	5,000	25	250
4 ½"	180	15-V 418	7,400	5,000	25	250
4 ½"	240	15-V 424	7,400	5,000	25	250
5"	120	15-V 512	6,150	4,000	25	250
5"	180	15-V 518	6,150	4,000	25	250
5"	240	15-V 524	6,150	4,000	25	250
6"	120	15-V 612	5,100	3,000	25	250
6"	180	15-V 618	5,100	3,000	25	250
6"	240	15-V 624	5,100	3,000	25	250

## QUICK-STEP INTERFACE PADS

Ideal for working on curved surfaces or when greater flexibility is required. It provides a soft foam cushion between the abrasive and the backing pad to increase flexibility and produce a better finish without gouging the work surface.

Dia.	Order No.	Std. Pkg.	Std. Ctn.
4 ½"	07-Q 045	1	10
7"	07-Q 070	1	10
6"	07-Q 060	1	10
5"	07-Q 050	1	10

## SPACER WASHERS

For grinders with: ½"-11 spindle

07-Q 001

For grinders with: M14×2.0 spindle

07-Z 005

## POLISHING PASTES

For use with felt, high polish and instant polish discs



Name	Order No.	Weight	Grit	Std. Pkg.	Std. Ctn.
White paste	07-T 901	600 g	1200-1500	1	10
Blue paste	07-T 905	650 g	2000	1	10
Instant polish paste	07-T 907	1200 g	1000-1500	1	5
Ultimate Shine™ paste	07-T 909	1300 g	2000-2500	1	5

# QUICK-STEP BLENDEX

SURFACE CONDITIONING DISCS



Dia.	Grit	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	X-TRA COARSE, brown	07-R 450	11,000	4,000 to 6,500	10	100
4 1/2"	COARSE, tan	07-R 452	11,000	4,000 to 6,500	10	100
4 1/2"	MEDIUM, maroon	07-R 453	11,000	4,000 to 6,500	10	100
4 1/2"	FINE, blue	07-R 454	11,000	4,000 to 6,500	10	100
4 1/2"	SUPER FINE, grey	07-R 455	11,000	4,000 to 6,500	10	100
5"	X-TRA COARSE, brown	07-R 500	11,000	3,000 to 6,500	10	100
5"	COARSE, tan	07-R 502	11,000	3,000 to 6,500	10	100
5"	MEDIUM, maroon	07-R 503	11,000	3,000 to 6,500	10	100
5"	FINE, blue	07-R 504	11,000	3,000 to 6,500	10	100
6"	X-TRA COARSE, brown	07-R 600	8,600	3,000 to 6,500	10	100
6"	COARSE, tan	07-R 602	8,600	3,000 to 6,500	10	100
6"	MEDIUM, maroon	07-R 603	8,600	3,000 to 6,500	10	100
6"	FINE, blue	07-R 604	8,600	3,000 to 6,500	10	100
7"	X-TRA COARSE, brown	07-R 700	6,800	2,500 to 5,000	10	100
7"	COARSE, tan	07-R 702	6,800	2,500 to 5,000	10	100
7"	MEDIUM, maroon	07-R 703	6,800	2,500 to 5,000	10	100
7"	FINE, blue	07-R 704	6,800	2,500 to 5,000	10	100



**X-TRA COARSE:** *For blending*

**COARSE:** *For removing scratches*

**MEDIUM:** *For cleaning and eliminating superficial scratches*

**FINE:** *For fine striated finishes*

**SUPER FINE:** *Last step before decorative or polishing finishes*

## QUICK-STEP FELT DISCS



Dia.	Order No.	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	07-T 450	2,000 to 3,000	5	40
6"	07-T 600	2,000 to 3,000	5	40
6"	07-T 602 *	2,000 to 3,000	5	40
7"	07-T 700	2,000 to 3,000	5	40

\* For use with Ulti-Mate finishing tool.

▷ **Felt discs**  
Strong high density  
Merino felt discs for all  
heavy-duty finishing  
and polishing job



## QUICK-STEP HIGH POLISH DISCS



Dia.	Order No.	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	07-T 454	2,000 to 3,000	10	100
5"	07-T 504	2,000 to 3,000	10	100
6"	07-T 604	2,000 to 3,000	10	100
7"	07-T 704	2,000 to 3,000	10	100

▷ **High polish discs**  
Special soft polishing disc  
produces high gloss and  
mirror finishes faster



## QUICK-STEP INSTANT POLISH™ DISCS

One-step solution to achieving a #8 mirror finish



Dia.	Order No.	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	07-T 456	2,000 to 3,000	10	100
4 1/2"	07-T 457	2,000 to 3,000	2	20
5"	07-T 506	2,000 to 3,000	10	100
5"	07-T 507	2,000 to 3,000	2	20

▷ Achieve a #8 mirror stainless steel finish faster than ever

▷ The polishing paste is pre-applied on the disc

▷ Packed in resealable bag that preserves the disc from contaminants and drying



# BLENDEX U™

Superior finishes in less time

**BLENDEX™ Unitized Technology (BLENDEX U™)** is used for deburring, blending and finishing any kind of metal, including stainless steel, titanium, aluminum, alloys and or plastic and fiberglass. These versatile abrasives are long-lasting and can replace many traditional abrasives, saving you steps in the finishing process and reducing your cycle time.



- ▷ **Long lasting Incredible resistance even when working on sharp edges to ensure maximum life and productivity**
- ▷ **Superb finish Consistent and uniform; as close as possible to a mirror finish without the use of pastes**
- ▷ **Non loading Resists loading, which minimizes heat buildup and prolongs the life of the disc**
- ▷ **Flexible Choices of density: either soft for finishing or hard for demanding applications like deburring**

## BLENDEX U CUP DISCS

**SPIN-ON**



Dia.	Arbor	Grade	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"-11	3SF	07-U 451	10,500	6,000	5	20
5"	5/8"-11	3SF	07-U 501	10,500	6,000	5	20

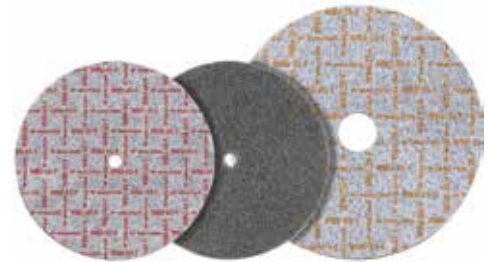


## BLENDEX U WHEELS



Dia.	Width	Arbor	Grade	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
3"	1/4"	3/8"	2SF	07-U 321	15,100	20	200
3"	1/4"	3/8"	6SF	07-U 322	18,100	20	200
3"	1/4"	3/8"	6AM	07-U 323	18,100	20	200
6"	1/4"	1"	2SF	07-U 621	5,000	5	40
6"	1/4"	1"	6SF	07-U 622	7,500	5	40
6"	1/4"	1"	6AM	07-U 623	7,500	5	40
6"	1/2"	1"	2SF	07-U 651	5,000	4	36
6"	1/2"	1"	6SF	07-U 652	7,500	4	36
6"	1/2"	1"	6AM	07-U 653	7,500	4	36
6"	1"	1"	2SF	07-U 611	5,000	2	16
6"	1"	1"	6SF	07-U 612	7,500	2	16
6"	1"	1"	6AM	07-U 613	7,500	2	16

See reducer bushings.



- ▷ **For use on portable or stationary machines**
- ▷ **Can be used on the edge or on either side of the wheel**
- ▷ **Safe for use on all metals**

## BLENDEX U MOUNTED POINTS



Dia.	Width	Grade	Color	Order No.	Max. RPM	Std. Ctn.
3/8"	1 1/4"	2SF	Orange	07-U 101	37,210	5
3/8"	1 1/4"	6SF	Red	07-U 102	37,210	5
3/8"	1 1/4"	6AM	Black	07-U 103	37,210	5

Also see BLENDEX U Twist discs.



- ▷ **These points are made with high quality BLENDEX U material and offer a fast way to blend, clean and polish in difficult to reach areas. 1/4" shaft**

## POLISHING FLAP DISCS

High performance flap disc optimized for polishing and mirror finish applications

Get a professional shine efficiently and with the versatility of a flap disc. Strong removal rates and improved finishing capabilities ensure a consistent surface finish every time.



### INSTANT POLISH FLAP DISC

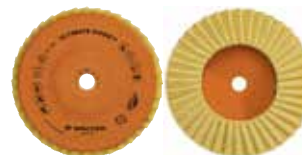
Dia.	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	07-T 452	7,300	2,000	5	20
5"	07-T 502	7,300	2,000	5	20



- ▷ To achieve a mirror finish in a single step
- ▷ For use on angle grinders with a suitable speed range

### ULTIMATE SHINE FLAP DISC

Dia.	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	07-T 453	7,300	2,000	5	20
5"	07-T 503	7,300	2,000	5	20



- ▷ As a second step to achieve the best mirror finish
- ▷ For use on angle grinders with a suitable speed range

### FELT CUP DISC

Hard density felt disc for polishing applications



Dia.	Width	Arbor	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
5"	1/2"	5/8"-11	07-T 505	10,500	2,000-4,000	5	20



- ▷ To be used with polishing pastes
- ▷ For use on angle grinders with a suitable speed range
- ▷ Reclosable polishing paste tube with convenient push-through system to protect paste from contaminants
- ▷ Suitable for use in food processing industries



### POLISHING PASTES

For use with felt, high polish and instant polish discs



Name	Order No.	Weight	Grit	Std. Pkg.	Std. Ctn.
White paste	07-T 901	600 g	1200-1500	1	10
Blue paste	07-T 905	650 g	2000	1	10
Instant polish paste	07-T 907	1200 g	1000-1500	1	5
Ultimate Shine™ paste	07-T 909	1300 g	2000-2500	1	5

- ▷ Achieve a mirror finish with only one paste
- ▷ Packed in a resealable bag that preserves the paste from contaminants and drying



# FX™ CLEANING ABRASIVES

Quick, easy surface cleaning on all metals

FX abrasives quickly remove paint, rust, scale, coatings, burn marks and gaskets without loading or clogging. Made from a high density, non-woven material, they are incredibly durable and can replace wire brushes in a wide variety of applications.

## SPIN-ON CUP DISCS



Dia.	Width	Arbor	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/4"	5/8"-11	07-X 450	10,500	6,000	5	20
5"	3/4"	5/8"-11	07-X 505	10,500	6,000	5	20

## FX STAINLESS CUP WHEEL

Dia.	Width	Arbor	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4.5"	1/2"	5/8"-11	07-X 452	10,000	4,000	5	20
5"	1/2"	5/8"-11	07-X 502	8,000	4,000	5	20

## MOUNTED WHEELS



Dia.	Width	Arbor	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
2"	1"	1/4"	07-X 120	11,000	6,000	1	10

## CLEANING WHEELS



Dia.	Width	Arbor	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4"	1/2"	1/2"	07-X 640	6,000	3,500 to 4,000	10	40
6"	1/2"	1/2"	07-X 660	4,000	2,400 to 2,700	10	40



Video available at [The Walter Network](http://TheWalterNetwork.com)  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

### Accessories

#### Mounting accessories for 4" FX wheels

- Mandrels for use on straight grinders and drills
- 1/4" shaft **Order No. 07-X 004**
- 8 mm shaft **Order No. 07-X 003**



#### Mounting accessories for 6" FX wheels

- Mandrels for use on straight grinders and drills
- 1/4" shaft (1/2" arbor) **Order No. 07-X 006**
- 1/4" shaft (7/8" arbor) **Order No. 07-X 008**
- 8 mm shaft (1/2" arbor) **Order No. 07-X 005**



#### Extension mandrels for use on angle grinders

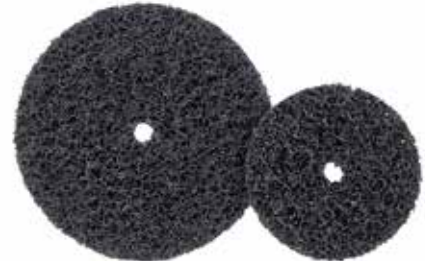
- M14 thread **Order No. 07-C 005**
- 5/8"-11 thread **Order No. 07-C 006**



- ▷ Outstanding life and performance
- ▷ For use on angle grinders with a suitable speed range
- ▷ No backing pad required



- ▷ Excellent for working in confined areas



- ▷ Use on edge — narrow contact area for maximum pressure
- ▷ Excellent for cleaning welds and stripping paint







## FX™ STAINLESS

For cleaning welds on stainless steel

These specially formulated non-woven abrasives help to remove heat tint and discoloration from stainless steel surfaces while simultaneously leaving a #4 finish. They can replace wire brushes in many applications without any risk of contaminating stainless steel or aluminum surfaces.

Dia.	Width	Arbor	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
6"	½"	⅞"	07-X 661	4,000	2,400 to 2,700	5	20
6"	¼"	⅞"	07-X 662	4,000	2,400 to 2,700	5	20
6"	1"	⅞"	07-X 663	4,000	2,400 to 7000	5	20

### Features

- ▷ Premium abrasive grain blend guaranteed not to contaminate stainless steel
- ▷ Easily conforms to uneven surfaces like weld beads
- ▷ FX design ensures consistent performance throughout the life of the wheel

### Benefits

- ▷ Remove discoloration and finish weld surfaces in just one step
- ▷ Large diameter allows you to easily reach tight corners
- ▷ Safer to use than wire brushes (no risk of wires coming detached from the hub)



## BLENDEX U TURBO

For blending in fillet welds and deburring applications

Blendex U Turbo was engineered to provide the versatility and performance of Blendex U with a more aggressive grade of abrasive grains designed to remove more material. The end result is a wheel that is perfect for deburring and blending in fillet welds while leaving a uniform, consistent surface finish. Stop wasting flap discs and use the right tool for the job when confronted with weld beads in tight corners or other intricate areas.

### Features

- ▷ High grade unitized abrasive grain blend for premium performance
- ▷ Can be shaped to fit your specific application
- ▷ Provides a consistent, uniform surface finish throughout the life of the wheel

### Benefits

- ▷ Unitized design allows you to use the wheel at multiple angles for a variety of applications
- ▷ Extremely durable and long lasting
- ▷ The perfect system for blending in fillet welds when used with Ulti-Mate

### Tech tip!

Use with the Ulti-Mate system to blend and finish fillet welds with ease

Dia.	Width	Arbor	Grade	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
6"	⅛"	⅞"	7ZC	07-U 615	8,000	5,500	6	60
6"	¼"	⅞"	7ZC	07-U 625	8,000	5,500	4	200



## QUICK-STEP™ STARTER KIT

### Includes:

- 1 QUICK-STEP backing pad (07-Q 049)
- 1 QUICK-STEP flex grit 120 (07-Q 512)
- 1 QUICK-STEP interface pad (07-Q 045)
- 2 QUICK-STEP XX grit 120 (15-V 412)
- 2 QUICK-STEP XX grit 240 (15-V 424)
- 2 QUICK-STEP Blendex coarse (07-R 452)
- 2 QUICK-STEP Blendex med (07-R 453)
- 2 QUICK-STEP Blendex fine (07-R 454)
- 1 QUICK-STEP felt (07-T 450)
- 1 QUICK-STEP high polish (07-T 454)

### Features

- ▷ A complete range of abrasives for everything from weld blending to applying a #8 mirror finish

Dia.	Arbor	Order No.	Std. Pkg.	Std. Ctn.
4 ½"	⅝"–11	07-Q 953	1	5

# ULTI-MATE™ SYSTEM

Ulti-Mate system for finishing in tight corners

This versatile tool allows you to do everything from removing a weld to applying a #8 mirror finish when working in tight corners. The ideal tool for blending and finishing fillet welds, the Ulti-Mate™ allows you to take Walter abrasives to places that were previously inaccessible, allowing you to significantly reduce your cycle time and finish jobs faster.

See page 170 for more details.



**QUICK-STEP FELT DISC  
TO USE WITH ULTI-MATE SYSTEM**  
6" no. 07-T 602

**N° de comm.: 30-A 287**

**Includes:**

- Ulti-Mate powertool (30-A 287)
- 1 Enduro-Flex 2-in-1 Turbo (15-I 451)
- 1 Enduro-Flex 2-in-1 (15-I 453)
- 1 Blendex U Turbo, ¼" width (07-U 625)
- 1 Blendex U Turbo, 1/6" width (07-U 615)
- 1 Blendex U 2SF, ¼" width (07-U 621)
- 1 FX Stainless Wheel, ¼" width (07-X 662)

**Benefits**

- ▷ Allows you to quickly switch between abrasives to take time and cost out of finishing jobs
- ▷ Durable industrial tool that is built to last, saving you from having to replace your power tools every few months
- ▷ Designed to exceed all safety standards, creating a safer work environment

**Features**

- ▷ Dialspeed™ variable speed control allows you to quickly go from 1,600-3,200 RPM to tackle any application from heavy stock removal to polishing
- ▷ Powerful 1,450 W industrial motor with Dynamax™ RPM monitoring to maintain constant RPM under load
- ▷ Soft Start™ technology

*Finish (roughness average) obtained when using each product if used on a 2B stainless steel surface.*



DISCS	Product	Application	Product category	Type of finish	Pre-finishing	Coarse finish	Sanitary	Pharma	Light polish	Mirror finish
				Ra	(>60 μin)	(60-50 μin)	(40-25 μin)	(16-12 μin)	(8-4 μin)	(4-1 μin)
				Grit size						
	Enduro-Flex 2-in-1 Turbo	Blending	15-I	36/60 + coarse						
	Enduro-Flex 2-in-1	Blending	15-I	80 + medium						
	BLENDEX U cup	Surface conditioning	07-U	3SF						
	FX cup	Surface cleaning	07-K	60						

WHEELS	BLENDEX U Turbo	Blending	07-U	7ZC						
	BLENDEX U	Surface conditioning	07-H	6AM						
				6SF						
				2SF						
	FX	Surface cleaning	07-X	FX						
				FX Stainless						
Felt	Mirror finishing	07-T + paste	Instant Polish 1000-1500							
			Ultimate Shine 2000-2500							

# TWIST™ SURFACE FINISHING SYSTEM

The **TWIST™ quick-change system** makes changing discs on small air grinders quick and easy, reducing cycle time. Achieve the desired finish quickly and maximize your productivity with this versatile line of high quality abrasives.

## QUICK DISC CHANGE BETWEEN FINISHING STEPS

*Simply twist any abrasive to the backing pad and start working*

*Quickly change out abrasives to achieve the desired finish in fewer steps and with less time wasted making trips to the tool crib*



## TWIST™ QUICK-CHANGE SURFACE FINISHING SYSTEM

Use these backing pads with TWIST abrasives to reduce the time spent changing from one abrasive to the next. Use orange backing pads for contour work and finishing or black backing pads for blending and light weld removal.



### TWIST™ BACKING PADS

Dia.	Flexibility	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
2"	Medium	04-X 202	30,000	1	400
2"	Hard	04-X 203	30,000	1	400
3"	Medium	04-X 302	28,000	1	400
3"	Hard	04-X 303	28,000	1	400

Color code: Medium = orange, Hard = black

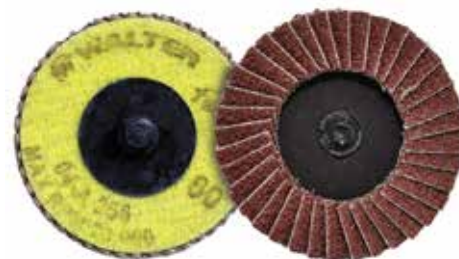
- ▷ *Molded polyurethane construction*
- ▷ *Removable mandrel*
- ▷ *Surface design ensures uniform disc support*
- ▷ *Allows for quick disc change-outs*

### TWIST™ FLAP DISCS



Dia.	Grit	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
2 1/2"	40	04-A 254	23,000	12,000	10	400
2 1/2"	60	04-A 256	23,000	12,000	10	400
2 1/2"	80	04-A 258	23,000	12,000	10	400
2 1/2"	120	04-A 262	23,000	12,000	10	400

Use with 2" backing pads

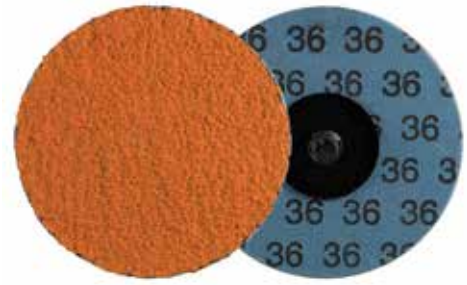


- ▷ *Long lasting with a consistent surface finish from start to end*
- ▷ *Very high removal rate*
- ▷ *Excellent for weld blending and finishing work*

## TWIST COOLCUT XX SANDING DISCS



Dia.	Grit	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
2"	36	04-C 203	30,000	15,000	50	500
2"	50	04-C 205	30,000	15,000	50	500
2"	60	04-C 206	30,000	15,000	50	500
2"	80	04-C 208	30,000	15,000	50	500
2"	120	04-C 212	30,000	15,000	50	500
3"	36	04-C 303	28,000	14,000	50	500
3"	50	04-C 305	28,000	14,000	50	500
3"	60	04-C 306	28,000	14,000	50	500
3"	80	04-C 308	28,000	14,000	50	500
3"	120	04-C 312	28,000	14,000	50	500



- ▷ Extremely aggressive removal rate for reduced cycle time
- ▷ The longest life in the industry to reduce your inventory needs
- ▷ Features Walter's exclusive Cyclone Technology™ high performance ceramic abrasive grain blend
- ▷ Grit is printed on the back for added convenience

## TWIST TOPCUT SANDING DISCS



Dia.	Grit	Color	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
2"	36	Black	04-D 203	30,000	15,000	50	2000
2"	50	Yellow	04-D 205	30,000	15,000	50	2000
2"	60	Blue	04-D 206	30,000	15,000	50	2000
2"	80	Orange	04-D 208	30,000	15,000	50	2000
2"	100	Green	04-D 210	30,000	15,000	50	2000
2"	120	Beige	04-D 212	30,000	15,000	50	2000
3"	36	Black	04-D 303	28,000	14,000	50	1000
3"	50	Yellow	04-D 305	28,000	14,000	50	1000
3"	60	Blue	04-D 306	28,000	14,000	50	1000
3"	80	Orange	04-D 308	28,000	14,000	50	1000
3"	100	Green	04-D 310	28,000	14,000	50	1000
3"	120	Beige	04-D 312	28,000	14,000	50	1000



- ▷ High metal removal rate
- ▷ Long life due to special Zirconia alumina grain formulation
- ▷ Unique construction for optimal heat dissipation and wear resistance
- ▷ Color coded backing to easily distinguish between different grit sizes

### COLOR CODED FOR EASY IDENTIFICATION



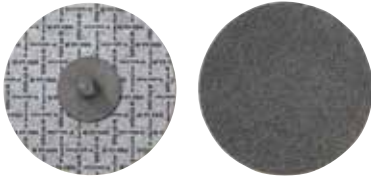
## TWIST BLENDEX CONDITIONING DISCS



Dia.	Grit	Color	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
2"	Coarse	Tan	04-G 202	30,000	15,000	25	1000
2"	Medium	Maroon	04-G 203	30,000	15,000	25	1000
2"	Fine	Blue	04-G 204	30,000	15,000	25	1000
2"	Super fine	Grey	04-G 205	30,000	15,000	25	1000
3"	Coarse	Tan	04-G 302	28,000	14,000	25	500
3"	Medium	Maroon	04-G 303	28,000	14,000	25	500
3"	Fine	Blue	04-G 304	28,000	14,000	25	500
3"	Super fine	Grey	04-G 305	28,000	14,000	25	500



- COARSE:** For most heavy-duty applications
- MEDIUM:** For cleaning and removing surface imperfections
- FINE:** For producing a fine scratch pattern
- SUPER FINE:** Use as a last step before mirror finishing or to produce decorative finishes



- ▷ Designed for deburring, cleaning, blending, finishing light welds and polishing hard to reach areas

- ▷ Designed for polishing

- ▷ 100% pure premium wool product

- ▷ Use with Walter polishing pastes

- ▷ Reclosable polishing paste tube with convenient push-through system to protect paste from contaminants

- ▷ Suitable for use in food processing industries



- ▷ Extra strong non-woven construction for removing oxide, scale and gaskets
- ▷ Cleans without damaging the surface
- ▷ Leaves no residue on the surface



## TWIST BLENDIX U DISCS



Dia.	Grade	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
3"	2SF	04-U 321	15,100	10	100
3"	6SF	04-U 322	15,100	10	100
3"	6AM	04-U 323	15,100	10	100

## TWIST FELT DISCS



Dia.	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
2"	04-T 204	30,000	12,000	25	1000
3"	04-T 304	28,000	10,000	25	500

## POLISHING PASTES

For use with felt, high polish and instant polish discs



Name	Order No.	Weight	Grit	Std. Pkg.	Std. Ctn.
White paste	07-T 901	600 g	1200-1500	1	10
Blue paste	07-T 905	650 g	2000	1	10
Instant polish paste	07-T 907	1200 g	1000-1500	1	5
Ultimate Shine™ paste	07-T 909	1300 g	2000-2500	1	5

## FX SURFACE CLEANING DISCS



Dia.	Order No.	Max. RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
2"	04-L 200	30,000	12,000	10	400
3"	04-L 300	28,000	10,000	10	200

## TWIST STARTER KITS

### 2" assortment includes:

- 1 medium backing pad (04-X 202)
- 2 flap discs (1 of each grit, 40: 04-A 254 and 80: 04-A 258)
- 15 TOPCUT discs (3 of each grit 36: 04-D 203, 50: 04-D 205, 60: 04-D 206, 80: 04-D 208 and 120: 04-D 212);
- 12 BLENDIX discs (3 of each grit, coarse: 04-G 202, medium: 04-G 203, fine: 04-G 204 and super fine: 04-G 205) and 1 FX disc (04-L 200).

Order No. 04-Z 992

### 3" assortment includes:

- 1 medium backing pad (04-X 302)
- 10 TOPCUT discs (2 of each grit 36: 04-D 303, 50: 04-D 305, 60: 04-D 306, 80, 04-D 308 and 120, 04-D 312);
- 4 BLENDIX discs (1 of each grit, coarse: 04-G 302, medium: 04-G 303, fine: 04-G 304 and super fine: 04-G 305) and 1 FX disc (04-L 300).

Order No. 04-Z 993

# Safety Seminar

ABRASIVES | POWER TOOLS

**Walter Surface Technologies trains thousands of workers every year worldwide on safe practices with abrasives.**

For over 60 years, WALTER has been offering innovative solutions for the metalworking industry. Our Safety Seminar is part of our commitment to help you increase your productivity through safe practices.

Our Safety Seminar has been developed with years of industry experience, and input from users like you. Our trained instructors use an interactive format combining safety basics, PPE, proper identification and use of abrasives.



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## The Walter Safety Seminar is ...

- Interactive On-Site
- Industry Relevant
- Adapted to your needs



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Contact your local WALTER representative to book your on-site sessions.

**1.888.592.5837**  
**walter.com/support/safety-first**

## Safety Seminar Topics:

- Why Is Safety Important?
- Key Safety Points
- Personal Protective Equipment
- Abrasive Basics
- Proper Mounting
- Safe Practices
- Industry Ratings

*...and more*

Keep in mind  
***Safety Starts With You!***

07

BRUSHING



# HIGH PERFORMANCE POWER BRUSHES



**Power brushes have long been used** for edge and surface conditioning on a wide variety of materials. Unlike grinding wheels and other abrasives that remove base material along with surface contaminants, power brushes work on the metal surface without removing the base material. The tips of the wire hammer the metal surface like thousands of tiny ball peens to finish and work the surface.

To withstand that kind of abuse, every Walter power brush is made from only the finest industrial grade materials. Combined with the latest manufacturing technology and strictest quality control, every power brush is designed to guarantee the highest productivity, longest brush life and maximum operator safety.

## Perfect Balance

*Every knot is perfectly balanced through an accurate wire count and an even trim length before being permanently anchored in an individual hole. This ensures perfect concentricity and vibration-free brushing for maximum operator comfort.*

*Internal steel plate holds wires securely in place even under extreme pressure for maximum strength and safety.*





## Longest Life

*Premium high tensile wire is oil-hardened and tempered for the longest life. Wire quality is mill certified for every batch, ensuring consistent performance brush after brush.*

### Color coded hubs for easy identification






#### Hub color Wire type

<p><b>Orange</b></p> 	<p>Made with premium carbon steel wire that is oil hardened and tempered for longest life and maximum brushing action.</p>
<p><b>Blue</b></p> 	<p>Made with 304 stainless steel wire to help prevent contamination and surface rusting of brushed stainless steel parts. Also may be used on aluminum and other non-ferrous metals.</p>





Choose the right wire brush for your application

POWER TOOL USED	TYPE OF BRUSH	BRUSH DIA.	COMPATIBLE GRINDER DIAMETER	WIRE CONSTRUCTION	APPLICATION	METAL
 Flat cleaning	Wire cup brushes	3"	4", 4½", 5", 6"	<b>Crimped</b>	For quick, efficient cleaning, brushing and finishing of large flat surfaces.	● ●
		4"	7", 9"	<b>Knot-Twisted</b>	For heavy-duty applications such as deburring, weld cleaning or removing significant oxidation from surfaces.	● ●
		5" 6"	7", 9" 9"	<b>Knot-Twisted with ring</b>	Heavy-duty cleaning with thicker wire and a supporting ring for added safety and a longer working life.	● ●
 Angle cleaning	Saucer-Cup brushes	4"	4", 4½", 5"	<b>Knot-Twisted</b>	For weld cleaning and deburring in hard to reach areas such as inside corners, fillet welds and contours.	● ●
		5" 6", 7"	5", 6" 7", 9"	<b>Crimped</b>	For cleaning wider root passes and rough surfaces. Can clean on both sides of a weld at the same time.	●
 Vertical cleaning	Wire wheel brushes	4"	4", 4½", 5"	<b>Crimped</b>	For cleaning welds or over uneven surfaces, such as pipe and tubing.	● ●
		4½" 5"	4½", 5" 5", 6"	<b>Stringer Bead</b>	For cleaning in narrow spaces such as in between passes on pipes or narrow groves, etc.	● ●
		6", 6⅝"	7", 9"	<b>Knot-Twisted</b>	For cleaning wider root passes as well as removing scale, spatter and corrosion.	● ●
 Vertical cleaning	Wire wheel brushes	4" to 10"	All bench and pedestal grinders with suitable speed range	<b>Crimped</b>	For light deburring and similar cleaning jobs, to remove paint, rust, etc.	● ●
				<b>Knot-Twisted</b>	For heavy-duty applications such as removal of rust, corrosion and gaskets.	● ●
 Vertical cleaning	Mounted brushes	½" to 4"	All drill or die grinders with a suitable speed range	<b>Crimped</b>	For cleaning hard to reach areas such as pipe interiors and confined spaces.	● ●
				<b>Knot-Twisted</b>	For heavy-duty applications such as removal of rust, corrosion and gaskets.	● ●

# Wire cup brushes

For angle grinders

Designed for high performance brushing of large flat surfaces. Our wire cup brushes are designed to outlast all competitive brushes. Whether you are removing paint, spatter, rust or cleaning weld edges, we have a brush that can help you work faster and more safely.

## CRIMPED



Dia.	Arbor	Order No.	Wire	Max. RPM	Std. Pkg.	Std. Ctn.
3"	M10 x 1.25	13-D 300	.0118"	12000	1	10
3"	M14 X 2.0	13-D 302	.0118"	12000	1	10
3"	5/8"-11	13-D 304	.0118"	12000	1	10
5"	5/8"-11	13-E 504	.020"	8600	1	10



▷ *Crimped for light surface cleaning, rust and paint removal, etc.*

## CRIMPED WITH RING



3"	5/8"-11	13-D 324	.0118"	12000	1	10
4"	5/8"-11	13-D 424	.0118"	8600	1	10
5"	5/8"-11	13-D 524	.0118"	8600	1	10



▷ *Safety supporting ring controls flaring to extend brush life. Once wires are worn down to the ring, the ring can be removed to expose more wire for extra brush life*

## CRIMPED



3"	M14 X 2.0	13-D 312	.0118"	12000	1	10
3"	5/8"-11	13-D 314	.0118"	12000	1	10
5"	5/8"-11	13-E 514	.020"	8600	1	10

## KNOT-TWISTED



Dia.	Arbor	Order No.	Wire	Max. RPM	Std. Pkg.	Std. Ctn.
3"	M10 x 1.25	13-F 300	.015"	12000	1	10
3"	M10 x 1.5	13-F 301	.015"	12000	1	10
3"	M14 X 2.0	13-F 302	.015"	12000	1	10
3"	1/2"-13	13-F 303	.015"	12000	1	10
3"	5/8"-11	13-F 304	.015"	12000	1	10
3"	5/8"-11	13-F 354	.020"	12000	1	10



Video available at *The Walter Network*  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)



▷ *Knot-twisted for heavy-duty brushing such as deburring, weld edge cleaning, removal of scale, spatter, heavy rust and corrosion, etc.*

## KNOT-TWISTED



3"	M10 x 1.5	13-F 310	.015"	12000	1	10
3"	M14 X 2.0	13-F 312	.015"	12000	1	10
3"	5/8"-11	13-F 314	.015"	12000	1	10



- ▷ Knot-twisted with safety supporting ring for heavy-duty brushing
- ▷ Safety supporting ring controls flaring to extend brush life. Once worn down to the ring, it can be removed to expose more wire for extra brush life



## Wire cup brushes



Double-row

- ▷ Work two times faster on large surfaces
- ▷ Requires less torque from the power tool for the same efficiency
- ▷ Unbeatable life and added working hours per brush

### **KNOT-TWISTED WITH RING**



Dia.	Arbor	Order No.	Wire size	Thick.	Max. RPM	Std. Pkg.	Std. Ctn.
3"	M14 x 2.0	13-G 302	.020"	½"	12,000	1	10
3"	½"-13	13-G 303	.020"	½"	12,000	1	10
3"	⅝"-11	13-G 304	.020"	½"	12,000	1	10
4"	⅝"-11	13-G 404	.020"	½"	8,600	1	10
5"	⅝"-11	13-G 504	.020"	½"	8,600	1	10
5"	⅝"-11	13-G 554	.035"	½"	8,600	1	10
6"	⅝"-11	13-G 604	.020"	½"	6,800	1	10

### **KNOT-TWISTED WITH RING**



Dia.	Arbor	Order No.	Wire size	Thick.	Max. RPM	Std. Pkg.	Std. Ctn.
3"	M14 x 2.0	13-G 312	.020"	½"	12,000	1	10
3"	⅝"-11	13-G 314	.020"	½"	12,000	1	10
5"	⅝"-11	13-G 514	.020"	½"	8,600	1	10

### **DOUBLE-ROW KNOT-TWISTED CUP BRUSHES WITH RING**



Dia.	Arbor	Order No.	Wire size	Thick.	Max. RPM	Std. Pkg.	Std. Ctn.
5"	⅝"-11	13-G 574	.020"	1"	8,600	1	10

### **DOUBLE-ROW KNOT-TWISTED CUP BRUSHES WITH RING**



Dia.	Arbor	Order No.	Wire size	Thick.	Max. RPM	Std. Pkg.	Std. Ctn.
5"	⅝"-11	13-G 584	.020"	1"	8,600	1	10

# Wire wheel brushes

For precision cleaning with angle grinders

These brushes are made from top quality wire that is perfectly knotted and balanced for minimal vibration and maximum operator safety. Quicker surface cleaning, the longest product life in the industry and an emphasis on operator safety make our wire wheel brushes the preferred choice for professionals throughout North America.

## CRIMPED WIRE WHEEL



Dia.	Width	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"	5/8"-11	13-J 454	0.0118"	12,500	1	10
5"	5/8"	5/8"-11	13-J 504	0.0118"	10,000	1	10
6"	5/8"	5/8"-11	13-J 604	0.0118"	9,000	1	10



## CRIMPED WIRE WHEEL



Dia.	Width	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"	5/8"-11	13-J 464	0.0118"	12,500	1	10
5"	5/8"	5/8"-11	13-J 514	0.0118"	10,000	1	10
6"	5/8"	5/8"-11	13-J 614	0.0118"	9,000	1	10



## STRINGER BEAD



Dia.	Width	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
4"	3/16"	5/8"-11	13-K 404	.020"	20,000	1	10
4 1/2"	3/16"	5/8"-11	13-K 454	.020"	15,000	1	10
5"	1/4"	5/8"-11	13-K 504	.020"	15,000	1	10
6"	1/4"	5/8"-11	13-K 604	.020"	10,000	1	10
6 7/8"	1/4"	5/8"-11	13-K 654	.020"	9,000	1	10



▷ Stringer bead brushes are extra narrow to clean in tight areas such as between weld passes in pipe fitting

## STRINGER BEAD



Dia.	Width	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
4"	3/16"	5/8"-11	13-K 414	.020"	20,000	1	10
4 1/2"	3/16"	5/8"-11	13-K 464	.020"	15,000	1	10
5"	1/4"	5/8"-11	13-K 514	.020"	15,000	1	10
6"	1/4"	5/8"-11	13-K 614	.020"	10,000	1	10

## KNOT-TWISTED



Dia.	Width	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
4"	3/8"	5/8"-11	13-L 404	.020"	20,000	1	10
4 1/2"	3/8"	5/8"-11	13-L 454	.020"	15,000	1	10
5"	3/8"	5/8"-11	13-L 504	.020"	15,000	1	10
6"	3/8"	5/8"-11	13-L 604	.020"	10,000	1	10



▷ Knot-twisted brushes are for surface cleaning after welding, to remove scale, spatter, rust and corrosion

## KNOT-TWISTED



Dia.	Width	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
4"	3/8"	5/8"-11	13-L 414	.020"	20,000	1	10
4 1/2"	3/8"	5/8"-11	13-L 464	.020"	15,000	1	10
5"	3/8"	5/8"-11	13-L 514	.020"	15,000	1	10
6"	3/8"	5/8"-11	13-L 614	.020"	10,000	1	10

# SAUCER-CUP BRUSHES

For cleaning hard-to-reach areas

These brushes have a built-in working angle of 45° to clean surfaces in hard-to-reach areas such as inside corners, edges and contours. Knot-twisted brushes are tightly knotted to remove surface imperfections quickly and ensure a long, productive lifespan. Crimped brushes provide excellent cleaning on uneven surfaces.

- ▷ For surface cleaning such as removing paint, rust and corrosion
- ▷ Tightly knotted for maximum impact and long brush life (knot-twisted only)

## CRIMPED



Dia.	Arbor	Order No.	Wire size	Thick.	Max. RPM	Std. Pkg.	Std. Ctn.
4"	5/8"-11	13-H 454	.012"	1/2"	12,500	1	10
5"	5/8"-11	13-H 554	.012"	3/4"	10,000	1	10
6"	5/8"-11	13-H 654	.012"	3/4"	9,000	1	10

## KNOT-TWISTED



Dia.	Arbor	Order No.	Wire size	Thick.	Max. RPM	Std. Pkg.	Std. Ctn.
4"	5/8"-11	13-H 404	.015"	1/2"	20,000	1	10
5"	5/8"-11	13-H 504	.020"	1/2"	15,000	1	10
6"	5/8"-11	13-H 604	.020"	1/2"	12,500	1	10
7"	5/8"-11	13-H 704	.020"	1/2"	10,000	1	10

## KNOT-TWISTED



Dia.	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
4"	5/8"-11	13-H 414	.015"	20,000	1	10
5"	5/8"-11	13-H 514	.020"	15,000	1	10
6"	5/8"-11	13-H 614	.020"	12,500	1	10
7"	5/8"-11	13-H 714	.020"	10,000	1	10

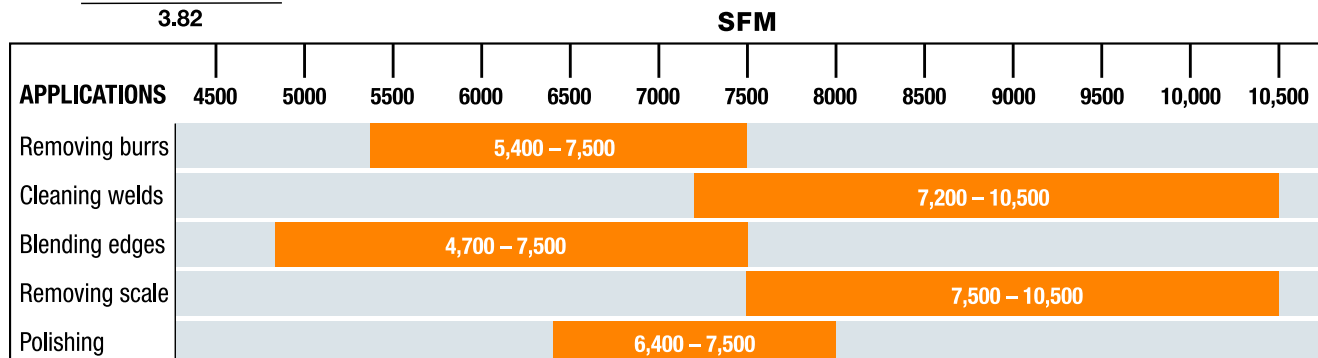
To convert brushes with 5/8"-11 arbor, please see page 215 for special threaded adaptors.



## Choose the right speed for your application

TO CONVERT SURFACE FEET PER MINUTE (SFM) TO RPM:

SFM =  $\frac{\text{DIAMETER} \times \text{RPM}}{3.82}$





▷ Crimped wire for general surface cleaning, rust, scale and paint removal, etc.

Spherical



▷ The spherical shape allow you to clean in almost any position around the working area. Perfect for cleaning inside pipes and custom hard to reach areas.

Straight



Conical



Wheel



Cup



## Mounted Wire Brushes

Our mounted wire brushes come in a variety of sizes and configurations to fit numerous industrial applications on die grinders, power drills or automated equipment.

For die grinders 1/4" shaft.

### MOUNTED CRIMPED



Type	Dia.	Width	Order No.	Wire	Max. RPM	Std. Pkg.	Std. Ctn.
Straight	1/2"		13-C 003	.010"	25,000	1	10
Straight	1/2"		13-C 005	.020"	25,000	1	10
Straight	3/4"		13-C 008	.014"	25,000	1	10
Conical	3/4"		13-C 028	.014"	25,000	1	10
Wheel	1 3/8"	1/4"	13-C 110	.008"	25,000	1	10
Wheel	2"	5/8"	13-C 120	.0118"	25,000	1	10
Wheel	3"	1/4"	13-C 123	.0118"	25,000	1	10
Wheel	3"	3/4"	13-C 125	.0118"	25,000	1	10
Wheel	4"	1/4"	13-C 128	.0118"	15,000	1	10
Cup	1 1/2"		13-C 015	.0118"	13,000	1	10
Cup	2 3/8"		13-C 018	.0118"	13,000	1	10
Spherical	1 1/2"	1 1/2"	13-C 215	.008"	20,000	1	10
Spherical	2"	2"	13-C 225	.010"	20,000	1	10
Spherical	3"	3"	13-C 230	.0118"	15,000	1	10

### MOUNTED CRIMPED



Type	Dia.	Width	Order No.	Wire	Max. RPM	Std. Pkg.	Std. Ctn.
Straight	1/2"		13-C 053	.010"	25,000	1	10
Straight	1/2"		13-C 055	.020"	25,000	1	10
Straight	3/4"		13-C 058	.014"	25,000	1	10
Conical	3/4"		13-C 078	.0118"	25,000	1	10
Wheel	1 3/8"	1/4"	13-C 160	.008"	25,000	1	10
Wheel	2"	5/8"	13-C 170	.0118"	25,000	1	10
Wheel	3"	1/4"	13-C 173	.0118"	25,000	1	10
Wheel	3"	3/4"	13-C 175	.0118"	25,000	1	10
Wheel	4"	1/4"	13-C 178	.0118"	15,000	1	10
Cup	1 1/2"		13-C 065	.0118"	13,000	1	10
Cup	2 3/8"		13-C 068	.0118"	13,000	1	10
Spherical	1 1/2"	1 1/2"	13-C 265	.008"	20,000	1	10
Spherical	2"	2"	13-C 275	.010"	20,000	1	10
Spherical	3"	3"	13-C 280	.0118"	15,000	1	10

**KNOT-TWISTED**

Type	Dia.	Widht	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
Straight	1 1/8"		13-C 020	.020"	25,000	1	10
Wheel	2 3/4"	3/8"	13-C 130	.020"	25000	1	10
Saucer-cup	3"	1/2"	13-C 270	.020"	25000	1	10
Cup	3"	1/2"	13-C 370	.020"	12,000	1	10

**KNOT-TWISTED**

Type	Dia.	Widht	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
Straight	1 1/8"		13-C 070	.020"	25,000	1	10
Wheel	2 3/4"	3/8"	13-C 180	.020"	25,000	1	10

**DOUBLE SIDED KNOT-TWISTED**

Type	Dia.	Widht	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
Wheel	3"	3/8"	13-C 303	.0118"	25,000	1	10
Wheel	4"	3/8"	13-C 404	.0118"	20,000	1	10

Mandrels for double sided brushes, order No. 13-D 008 (for 13-C 303) and 13-D 009 (for 13-C 404).



COMBINE YOUR WIRE BRUSH WITH THE BEST POWER TOOL!  
See page 174

Straight



Wheel



Saucer-cup



Cup



Mandrel shown on picture sold separately.



Wheel

**LINEAR CRIMPED BRUSHES**

Our linear wire brushes can be used with the LINE-MATE III™ system for efficient cleaning over wide surface areas.

**LINEAR CRIMPED BRUSHES**

Dia.	Widht	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	2"	5/8"-11	13-M 454	.01"	4,000	1	10

**LINEAR CRIMPED BRUSHES**

Dia.	Widht	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	2"	5/8"-11	13-M 464	.01"	4,000	1	10



# Wire wheel brushes

For bench and pedestal grinders

These brushes are made from industrial quality wire perfectly balanced for smooth operation and long life. They are most commonly used to remove paint, rust and corrosion, for light deburring and similar cleaning jobs.

## CRIMPED



Dia.	Width	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
4"	3/4"	1/2"	13-B 040	.0118"	6,000	1	10
6"	7/8"	1 1/4"	* 13-B 060	.0118"	6,000	1	10
6"	1 1/8"	1 1/4"	* 13-B 061	.0118"	6,000	1	10
6"	3/4"	1 1/4"	* 13-B 065	.0118"	6,000	1	10
7"	7/8"	1 1/4"	* 13-B 070	.0118"	6,000	1	10
7"	3/4"	1 1/4"	* 13-B 075	.0118"	6,000	1	10
8"	1"	1 1/4"	* 13-B 080	.0118"	4,500	1	10
8"	1/2"	5/8"	** 13-B 082	.0118"	4,500	1	10
8"	3/4"	1 1/4"	* 13-B 085	.0118"	4,500	1	10
6"	1"	1 1/4"	* 13-B 100	.0118"	3,600	1	10
8"	1"	1 1/4"	* 13-B 180	.0118"	4,500	1	10

\* All brushes with 1 1/4" arbor are equipped with a set of reducer bushings to fit the following shaft diameters: 1/2", 5/8", 3/4", 7/8" and 1".

\*\* This brush comes with 1/2" reducer bushings.



- ▷ Crimped wire has optimal density and wire trim for the most effective brushing action and longest life
- ▷ For general surface cleaning and deburring applications

## CRIMPED



Dia.	Width	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
6"	3/4"	1 1/4"	* 13-B 165	.0118"	6,000	1	10
6"	7/8"	1 1/4"	* 13-B 160	.0118"	6,000	1	10
8"	3/4"	1 1/4"	* 13-B 185	.0118"	4,500	1	10
8"	1"	1 1/4"	* 13-B 180	.0118"	4,500	1	10

\* All brushes with 1 1/4" arbor are equipped with a set of reducer bushings to fit the following shaft diameters: 1/2", 5/8", 3/4", 7/8" and 1".

Accessory	
Replacement set of bushings	
Complete set	13-B 015



## KNOT-TWISTED



Dia.	Width	Arbor	Order No.	Wire size	Max. RPM	Std. Pkg.	Std. Ctn.
6"	3/8"	5/8"	** 13-B 260	.0118"	9,000	1	10
8"	3/8"	5/8"	** 13-B 280	.0118"	8,500	1	10

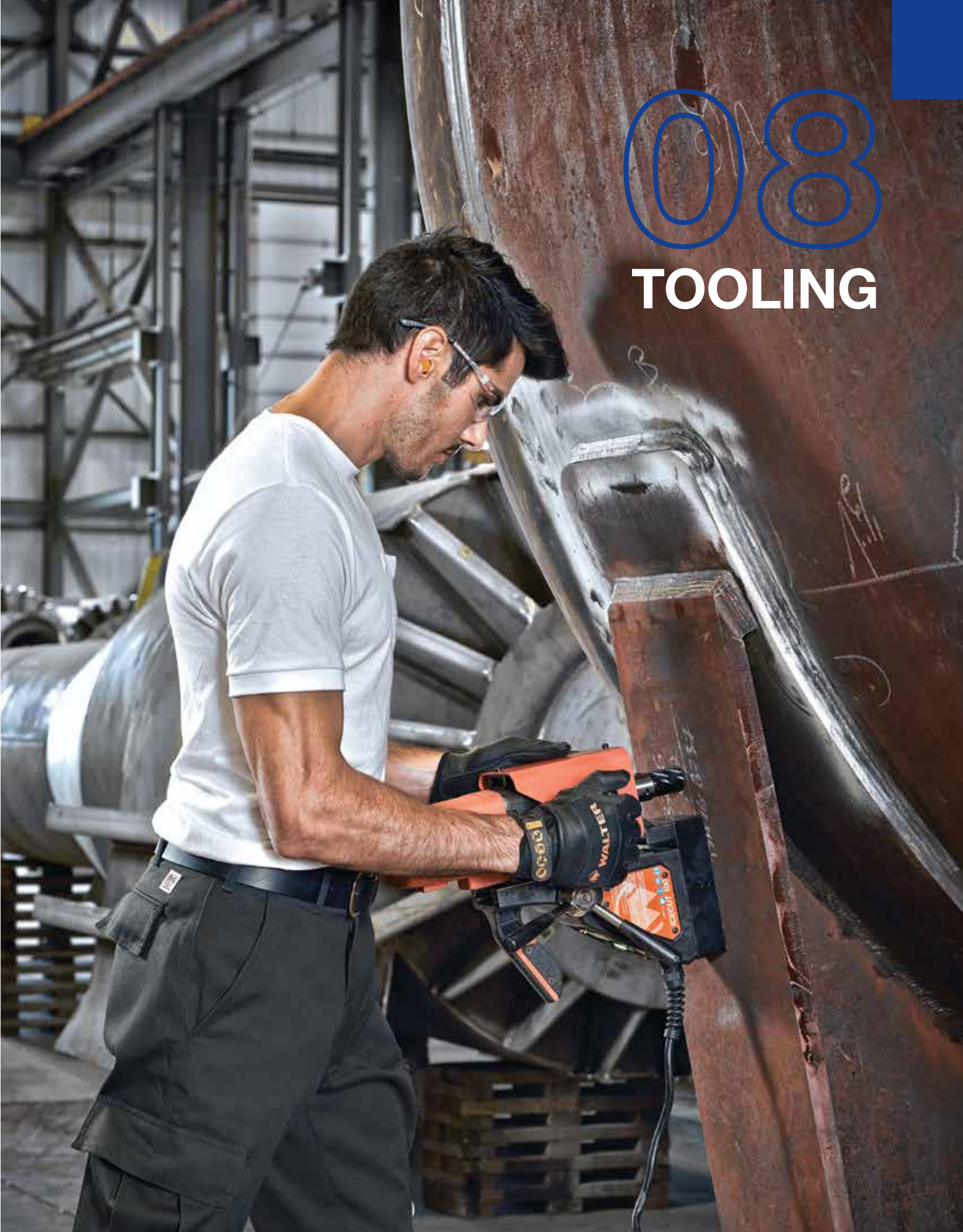
\*\* These brushes come with 1/2" reducer bushings.

- ▷ These brushes are designed to be flipped and mounted in the opposite direction
- ▷ This self-sharpens the wires, increasing the life while maintaining fast cleaning and deburring rates











08

TOOLING



# How to choose the right drill bit

## For drilling holes smaller than 1/2 in. <sup>(1)</sup>

Power tool	Material to drill	Thickness of mat. <sup>(2)</sup>	Required drill bit	Products	Why?
Drill press, magnetic drilling unit, automated drilling machine	Mild steel	< 1/2"	SST+ 135° Stub Round Shank		Strongest drill bit, won't break if you get stuck.
		> 1/2"	SST+ 135° Jobbers Round Shank		Most effective in thick material, won't break if you get stuck.
	High tensile steel	< 1/2"	SST+ 135° Stub Round Shank		Strongest drill bit, won't break if you get stuck.
		> 1/2"	SST+ 135° Jobbers Round Shank		Most effective in thick material, won't break if you get stuck.
Hand held power tool	Mild steel	< 1/2"	SST+ 135° Stub Quick Shank		Best grip on your powertool, allows you to drill fast and precise.
		> 1/2"	SST 118° Jobbers Quick Shank		Best grip for hand held tools. Allows you to drill fast and precise.
	High tensile steel	< 1/2"	SST+ 135° Stub Quick Shank		Best grip on your powertool, allows you to drill fast and precise.
		> 1/2"	SST+ 135° 3/8" Reduced Shank		Most effective in thick material, won't break if you get stuck.

(1) For drilling bigger holes, use a reduced shank or a Prentice drill bit.  
 (2) For best performance, never drill a hole deeper than 1/2 the length of the drill bit's fluting

### All Walter drill bits feature:

- Special HSS M35 with cobalt blend (HSS+Co) for premium life and performance
- High flow spiral and chisel edge design to maximize chip evacuation
- Proven SST heat and surface treatment to reduce friction and increase the chip flow
- Heavy-duty, fully ground body construction
- Self-centering split point allowing you to drill any size of hole in a single operation and prevents the "walking effect" on curved surfaces

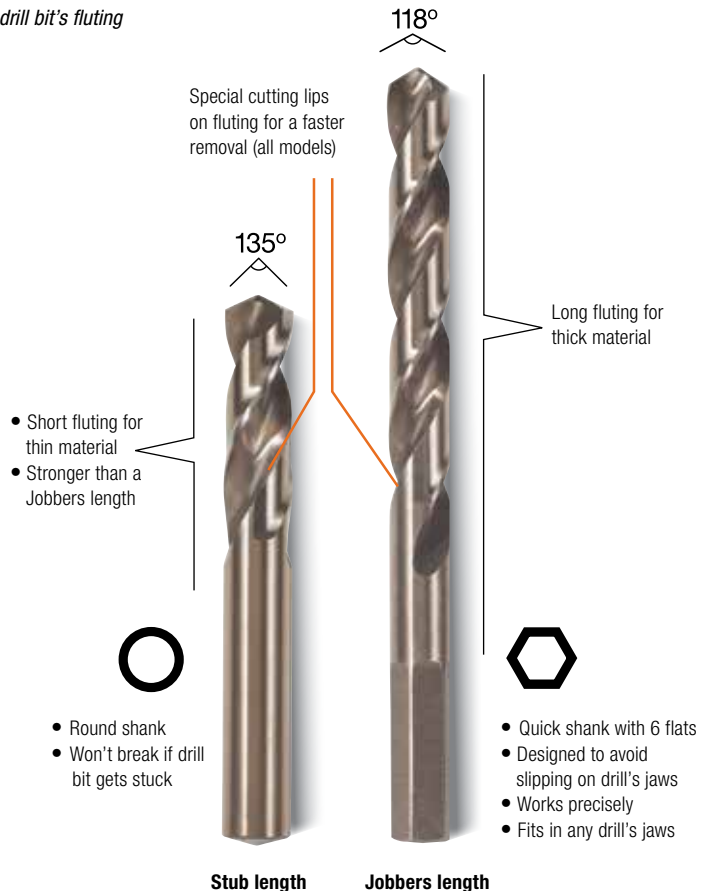
## Drill more holes... faster!

### Tech tip!

Three ways to maximize drilling efficiency:

- Use the correct feed rate
- Use the correct RPM speed
- Use Walter's COOLCUT lubricant stick

Order No.: 53-B 013



118°

Special cutting lips on fluting for a faster removal (all models)

135°

Long fluting for thick material

- Short fluting for thin material
- Stronger than a Jobbers length

• Round shank

• Won't break if drill bit gets stuck

• Quick shank with 6 flats

• Designed to avoid slipping on drill's jaws

• Works precisely

• Fits in any drill's jaws

Stub length      Jobbers length

# SST™ 118° JOBBERS LENGTH FRACTIONAL

## Quick shank drill bits

For hand held tools in mild steel

The proven original SST™ drill bit, made with M35 cobalt blend, is designed with an exclusive quick shank that ensures fast and secure tightening inside any keyed or keyless chucks. Ideal for cordless drills, allowing you to drill more holes per charge. Recommended for drilling on any type of thin gauge metal or sheet metal where a jobber's length bit is required. Ability to drill through multiple layers of metal quickly and easily.

- ▷ **Unique shank design with six long flats**
- ▷ **Self-centering 118° split point geometry**
- ▷ **Proven SST heat and surface treatment**
- ▷ **Back tapered body**
- ▷ **Heavy-duty HSS+Co body construction**



Drill Size	Flute Length	Overall Length	Order No.	Std. Pkg.	Std. Ctn.	Available individually Order No.
1/16"	3/16"	13/16"	01-A 004	10	100	01-A 004A
5/64"	15/16"	1 15/16"	01-A 005	10	100	01-A 005A
3/32"	1 3/16"	2 1/4"	01-A 006	10	100	01-A 006A
7/64"	1 5/16"	2 3/8"	01-A 007	10	100	01-A 007A
1/8"	1 7/16"	2 9/16"	01-A 008	10	100	01-A 008A
9/64"	1 9/16"	2 3/4"	01-A 009	10	100	01-A 009A
5/32"	1 11/16"	2 15/16"	01-A 010	10	100	01-A 010A
11/64"	1 7/8"	3 1/8"	01-A 011	10	100	01-A 011A
3/16"	2 1/16"	3 3/8"	01-A 012	10	100	01-A 012A
13/64"	2 1/4"	3 3/8"	01-A 013	10	100	01-A 013A
7/32"	2 1/4"	3 11/16"	01-A 014	10	100	01-A 014A
15/64"	2 1/4"	3 11/16"	01-A 015	10	100	01-A 015A
1/4"	2 1/2"	4"	01-A 016	10	100	01-A 016A
17/64"	2 11/16"	4 5/16"	01-A 017	10	100	01-A 017A
9/32"	2 11/16"	4 9/16"	01-A 018	10	100	01-A 018A
19/64"	2 15/16"	4 5/8"	01-A 019	10	100	01-A 019A
5/16"	2 15/16"	4 5/8"	01-A 020	10	100	01-A 020A
21/64"	2 15/16"	4 5/8"	01-A 021	10	100	01-A 021A
11/32"	3 3/16"	4 15/16"	01-A 022	10	100	01-A 022A
23/64"	3 3/16"	4 15/16"	01-A 023	10	100	01-A 023A
3/8"	3 7/16"	5 1/4"	01-A 024	10	100	01-A 024A
25/64"	3 7/16"	5 1/4"	01-A 025	5	50	01-A 025A
13/32"	3 7/16"	5 1/4"	01-A 026	5	50	01-A 026A
27/64"	3 11/16"	5 9/16"	01-A 027	5	50	01-A 027A
7/16"	3 11/16"	5 9/16"	01-A 028	5	50	01-A 028A
29/64"	3 11/16"	5 9/16"	01-A 029	5	50	01-A 029A
15/32"	4"	5 15/16"	01-A 030	5	50	01-A 030A
31/64"	4"	5 15/16"	01-A 031	5	50	01-A 031A
1/2"	4"	5 15/16"	01-A 032	5	50	01-A 032A

Packaged in reusable plastic boxes.

Sizes 1/64" and smaller have a round shank.



Video available at The Walter Network  
www.youtube.com/user/TheWalterNetwork



NOW AVAILABLE INDIVIDUALLY



SHOCK-RESISTANT, EXTRA-THICK POLYETHYLENE DRILL BIT CARRYING CASE

1/16" to 1/2" by 64<sup>th</sup>s  
29 drill bits

Order No. 01-E 118



1/16" to 1/2" by 64<sup>th</sup>s  
29 Jobbers Length drill bits  
Order No. 01-E 178

### Tech tip!

For increased cutting efficiency and tool life, use COOLCUT solid stick lubricant.

Order No.: 53-B 013

# SST+™ 135° JOBBERS LENGTH FRACTIONAL Round shank drill bits

For high tensile steel

Walter SST+™ drill bits are made from M35 cobalt blend to drill even more holes faster on any type of material.



Drill Size	Flute Length	Overall Length	Order No.	Std. Pkg.	Std. Ctn.
1/64"	3/16"	19/16"	01-A 501	10	100
1/32"	3/8"	1 3/16"	01-A 502	10	100
3/64"	5/8"	1 1/2"	01-A 503	10	100
1/16"	13/16"	1 11/16"	01-A 504	10	100
5/64"	15/16"	1 15/16"	01-A 505	10	100
3/32"	1 3/16"	2 1/4"	01-A 506	10	100
7/64"	1 5/16"	2 3/8"	01-A 507	10	100
1/8"	1 7/16"	2 9/16"	01-A 508	10	100
9/64"	1 9/16"	2 3/4"	01-A 509	10	100
5/32"	1 11/16"	2 15/16"	01-A 510	10	100
11/64"	1 7/8"	3 1/8"	01-A 511	10	100
3/16"	2 1/16"	3 3/8"	01-A 512	10	100
19/64"	2 1/16"	3 3/8"	01-A 513	10	100
7/32"	2 1/4"	3 11/16"	01-A 514	10	100
15/64"	2 1/4"	3 11/16"	01-A 515	10	100
1/4"	2 1/2"	4"	01-A 516	10	100
17/64"	2 11/16"	4 5/16"	01-A 517	10	100
9/32"	2 11/16"	4 5/16"	01-A 518	10	100
19/64"	2 15/16"	4 5/8"	01-A 519	10	100
5/16"	2 15/16"	4 5/8"	01-A 520	10	100
21/64"	2 15/16"	4 5/8"	01-A 521	10	100
11/32"	3 3/16"	4 15/16"	01-A 522	10	100
29/64"	3 3/16"	4 15/16"	01-A 523	10	100
3/8"	3 7/16"	5 1/4"	01-A 524	10	100
25/64"	3 7/16"	5 1/4"	01-A 525	5	50
13/32"	3 7/16"	5 1/4"	01-A 526	5	50
27/64"	3 11/16"	5 9/16"	01-A 527	5	50
7/16"	3 11/16"	5 9/16"	01-A 528	5	50
29/64"	3 11/16"	5 9/16"	01-A 529	5	50
15/32"	4"	5 15/16"	01-A 530	5	50
31/64"	4"	5 15/16"	01-A 531	5	50
1/2"	4"	5 15/16"	01-A 532	5	50

Packaged in reusable plastic packaging.  
Sizes 3/64" and smaller have a regular point.



- ▷ Self-centering 135° split point geometry
- ▷ Proven SST heat and surface treatment
- ▷ Heavy-duty HSS+Co body construction
- ▷ High flow flute design

## SHOCK-RESISTANT, EXTRA-THICK POLYETHYLENE DRILL BIT CARRYING CASE

1/16" to 1/2" by 64<sup>ths</sup>  
29 drill bits  
**Order No. 01-E 618**



1/16" to 1/2" by 64<sup>ths</sup>  
29 Jobbers Length drill bits  
**Order No. 01-E 678**



- ▷ Refillable
- ▷ Protects drill bits from water, rust, oil and other contaminants
- ▷ Quick-release belt clip

# SST+™ 135° JOBBERS LENGTH METRIC AND LETTER SIZES

## Round shank drill bits

For high tensile steel

Walter has a substantial offering of metric and letter size SST+™ twist drill bits so professionals across a wide range of industries can enjoy the same quality and performance our fractional drill bits are known for.



### METRIC SIZES

Drill Size (mm)	Flute length (mm)	Overall Length (mm)	Order No.	Std. Pkg.	Std. Ctn.
1.00 mm	12 mm	34 mm	01-D 510	10	100
1.50 mm	20 mm	43 mm	01-D 515	10	100
2.00 mm	24 mm	49 mm	01-D 520	10	100
2.50 mm	30 mm	57 mm	01-D 525	10	100
3.00 mm	33 mm	61 mm	01-D 530	10	100
3.30 mm	36 mm	65 mm	01-D 533	10	100
3.50 mm	39 mm	70 mm	01-D 535	10	100
4.00 mm	43 mm	75 mm	01-D 540	10	100
4.20 mm	43 mm	75 mm	01-D 542	10	100
4.50 mm	47 mm	80 mm	01-D 545	10	100
5.00 mm	52 mm	86 mm	01-D 550	10	100
5.50 mm	57 mm	93 mm	01-D 555	10	100
6.00 mm	57 mm	93 mm	01-D 560	10	100
6.50 mm	63 mm	101 mm	01-D 565	10	100
6.70 mm	63 mm	101 mm	01-D 567	10	100
7.00 mm	69 mm	109 mm	01-D 570	10	100
7.50 mm	69 mm	109 mm	01-D 575	10	100
8.00 mm	75 mm	117 mm	01-D 580	10	100
8.50 mm	75 mm	117 mm	01-D 585	10	100
9.00 mm	81 mm	125 mm	01-D 590	10	100
9.50 mm	81 mm	125 mm	01-D 595	10	100
10.00 mm	87 mm	133 mm	01-D 600	5	50
10.20 mm	87 mm	133 mm	01-D 602	5	50
10.50 mm	87 mm	133 mm	01-D 605	5	50
11.00 mm	94 mm	142 mm	01-D 610	5	50
11.50 mm	94 mm	142 mm	01-D 615	5	50
12.00 mm	101 mm	151 mm	01-D 620	5	50
12.50 mm	101 mm	151 mm	01-D 625	5	50
13.00 mm	101 mm	151 mm	01-D 630	5	50

*Packaged in reusable plastic packaging.*

### LETTER SIZES

Drill Size	Flute Length	Overall Length	Order No.	Std. Pkg.	Std. Ctn.
F	2 1/2"	4"	01-C 506	10	100
I	2 3/4"	4 1/4"	01-C 509	10	100
Q	3"	4 5/8"	01-C 517	10	100
U	3 3/8"	4 13/16"	01-C 521	10	100

*Packaged in reusable plastic packaging.*

# SST+™ 135° JOBBERS LENGTH WIRE GAUGE Round shank drill bits

For high tensile steel

Our SST+ twist drill bits are also available in wire gauge sizes commonly used by electricians and electrical contractors.



*Packaged in reusable plastic packaging.*

*Sizes #53 to #60 have a regular point.*

Drill Size	Flute Length	Overall Length	Order No.	Std. Pkg.	Std. Ctn.
1	2 1/4"	3 11/16"	01-B 501	10	100
2	2 1/4"	3 11/16"	01-B 502	10	100
3	2 1/4"	3 11/16"	01-B 503	10	100
4	2 1/16"	3 3/8"	01-B 504	10	100
5	2 1/16"	3 3/8"	01-B 505	10	100
6	2 1/16"	3 3/8"	01-B 506	10	100
7	2 1/16"	3 3/8"	01-B 507	10	100
8	2 1/16"	3 3/8"	01-B 508	10	100
9	2 1/16"	3 3/8"	01-B 509	10	100
10	2 1/16"	3 3/8"	01-B 510	10	100
11	2 1/16"	3 3/8"	01-B 511	10	100
12	2 1/16"	3 3/8"	01-B 512	10	100
13	1 7/8"	3 1/8"	01-B 513	10	100
14	1 7/8"	3 1/8"	01-B 514	10	100
15	1 7/8"	3 1/8"	01-B 515	10	100
16	1 7/8"	3 1/8"	01-B 516	10	100
17	1 7/8"	3 1/8"	01-B 517	10	100
18	1 7/8"	3 1/8"	01-B 518	10	100
19	1 11/16"	2 15/16"	01-B 519	10	100
20	1 11/16"	2 15/16"	01-B 520	10	100
21	1 11/16"	2 15/16"	01-B 521	10	100
22	1 11/16"	2 15/16"	01-B 522	10	100
23	1 11/16"	2 15/16"	01-B 523	10	100
24	1 11/16"	2 15/16"	01-B 524	10	100
25	1 11/16"	2 15/16"	01-B 525	10	100
26	1 9/16"	2 3/4"	01-B 526	10	100
27	1 9/16"	2 3/4"	01-B 527	10	100
28	1 9/16"	2 3/4"	01-B 528	10	100
29	1 9/16"	2 3/4"	01-B 529	10	100
30	1 7/16"	2 9/16"	01-B 530	10	100
31	1 5/16"	2 3/8"	01-B 531	10	100
32	1 5/16"	2 3/8"	01-B 532	10	100
33	1 5/16"	2 3/8"	01-B 533	10	100
34	1 5/16"	2 3/8"	01-B 534	10	100
35	1 5/16"	2 3/8"	01-B 535	10	100
36	1 5/16"	2 3/8"	01-B 536	10	100
37	1 3/16"	2 1/4"	01-B 537	10	100
38	1 3/16"	2 1/4"	01-B 538	10	100
39	1 3/16"	2 1/4"	01-B 539	10	100
40	1 3/16"	2 1/4"	01-B 540	10	100
41	1 3/16"	2 1/4"	01-B 541	10	100
42	1 3/16"	2 1/4"	01-B 542	10	100
43	1 1/16"	2 1/16"	01-B 543	10	100
44	1 1/16"	1 15/16"	01-B 544	10	100
45	15/16"	1 15/16"	01-B 545	10	100
46	15/16"	1 15/16"	01-B 546	10	100
47	15/16"	1 15/16"	01-B 547	10	100
48	7/8"	1 13/16"	01-B 548	10	100
49	7/8"	1 13/16"	01-B 549	10	100
50	7/8"	1 13/16"	01-B 550	10	100
51	13/16"	1 11/16"	01-B 551	10	100
52	13/16"	1 11/16"	01-B 552	10	100
53	11/16"	1 9/16"	01-B 553	10	100
54	11/16"	1 9/16"	01-B 554	10	100
55	5/8"	1 1/2"	01-B 555	10	100
56	5/8"	1 1/2"	01-B 556	10	100
57	9/16"	1 7/16"	01-B 557	10	100
58	1/2"	1 5/8"	01-B 558	10	100
59	1/2"	1 5/8"	01-B 559	10	100
60	1/2"	1 5/8"	01-B 560	10	100

# SST+™ 135° DOUBLE-ENDED FRACTIONAL AND RIVET SIZES

## Round shank stub drill bits

For thin gauge and sheet metal

The most effective double-ended drill bit available that can allow you to drill hundreds of holes faster than anyone else.

The state of the art cobalt blend provides these drill bits an incomparable lifespan that would make any black oxide competitors blush.

Even if you want to drill a hole into sheet metal, thin material, for automotive or aerospace purposes, for a rivet hole or simply to double the life of your current stub length drill bit.



### FRACTIONAL SIZES

Drill Size	Flute Length	Overall Length	Order No.	Std. Pkg.	Std. Ctn.
1/16"	23/64"	1 1/2"	01-K 004	10	100
5/64"	23/64"	1 1/2"	01-K 005	10	100
3/32"	25/64"	1 11/16"	01-K 006	10	100
7/64"	7/16"	1 13/16"	01-K 007	10	100
1/8"	19/32"	1 59/64"	01-K 008	10	100
9/64"	35/64"	2 3/64"	01-K 009	10	100
5/32"	35/64"	2 11/64"	01-K 010	10	100
11/64"	5/8"	2 9/32"	01-K 011	10	100
3/16"	11/16"	2 7/16"	01-K 012	10	100
13/64"	11/16"	2 7/16"	01-K 013	10	100
7/32"	3/4"	2 19/32"	01-K 014	10	100
15/64"	3/4"	2 19/32"	01-K 015	10	100
1/4"	59/64"	2 3/4"	01-K 016	10	100

### CORRESPONDING RIVET SIZES

Drill Size	Flute Length	Overall Length	Order No.	Std. Pkg.	Std. Ctn.
F	1 7/64"	4 1/64"	01-K 206	10	100
#1	3/4"	2 19/32"	01-K 101	10	100
#10	11/16"	2 7/16"	01-K 110	10	100
#20	5/8"	2 9/32"	01-K 120	10	100
#30	35/64"	2 3/64"	01-K 130	10	100
#40	7/16"	1 13/16"	01-K 140	10	100
#51	25/64"	1 11/16"	01-K 151	10	100

- ▷ Self-centering 135° split point geometry
- ▷ Special bronze SST surface treatment
- ▷ Heavy-duty fully ground body construction
- ▷ High flow flute design
- ▷ Double-ended design provides twice the life and quicker change outs compared to traditional drill bits



## SST+™ 135° STUB LENGTH FRACTIONAL

### Quick shank drill bits

For thin gauge material and sheet metal

Excellent for drilling into sheet metal and other thin-walled material. The 135° split point prevents center-punching and its short length helps prevent breakage, making it an ideal option for drilling in confined spaces.



- ▷ Self-centering 135° split point geometry
- ▷ Special bronze SST surface treatment
- ▷ Heavy-duty fully ground body construction
- ▷ High flow flute design
- ▷ Unique shank design with six long flats to provide a better grip for cordless and corded power tools

#### Tech tip!

Remember this rule:

Small diameter bits = High speed, low feed

Large diameter bits = Low speed, high feed

Drill Size	Flute Length	Overall Length	Order No.	Std. Pkg.	Std. Ctn.
1/16"	3/8"	1 5/16"	01-H 104	10	100
5/64"	1/2"	1 1/2"	01-H 105	10	100
3/32"	9/16"	1 11/16"	01-H 106	10	100
7/64"	5/8"	1 13/16"	01-H 107	10	100
1/8"	11/16"	1 15/16"	01-H 108	10	100
9/64"	13/16"	2 1/16"	01-H 109	10	100
5/32"	7/8"	2 3/16"	01-H 110	10	100
11/64"	15/16"	2 5/16"	01-H 111	10	100
3/16"	1"	2 7/16"	01-H 112	10	100
13/64"	1"	2 7/16"	01-H 113	10	100
7/32"	1 1/8"	2 5/8"	01-H 114	10	100
15/64"	1 1/8"	2 5/8"	01-H 115	10	100
1/4"	1 1/4"	2 3/4"	01-H 116	10	100
17/64"	1 5/16"	2 15/16"	01-H 117	10	100
9/32"	1 5/16"	2 15/16"	01-H 118	10	100
19/64"	1 5/16"	2 15/16"	01-H 119	10	100
5/16"	1 7/16"	3 1/8"	01-H 120	10	100
21/64"	1 7/16"	3 1/8"	01-H 121	10	100
11/32"	1 9/16"	3 5/16"	01-H 122	10	100
23/64"	1 9/16"	3 5/16"	01-H 123	10	100
3/8"	1 11/16"	3 1/2"	01-H 124	10	100
25/64"	1 11/16"	3 1/2"	01-H 125	5	50
13/32"	1 11/16"	3 1/2"	01-H 126	5	50
27/64"	1 7/8"	3 3/4"	01-H 127	5	50
7/16"	1 7/8"	3 3/4"	01-H 128	5	50
29/64"	1 7/8"	3 3/4"	01-H 129	5	50
15/32"	2"	4"	01-H 130	5	50
31/64"	2"	4"	01-H 131	5	50
1/2"	2"	4"	01-H 132	5	50

Packaged in reusable plastic packaging. Sizes 1/64" and smaller have a round shank.



# SST+™ 135° STUB LENGTH FRACTIONAL AND WIRE GAUGE

## Round shank drill bits

For thin gauge material and sheet metal

These drill bits have short flutes as well as a short overall length for maximum rigidity when drilling in sheet metal. They are made with a cobalt blend to provide a long service life in hard materials such as stainless steel.



- ▷ Produce minimal burr when drilling in sheet metal
- ▷ Self-centering 135° split point
- ▷ Heavy-duty body construction
- ▷ No center punching necessary

### FRACTIONAL SIZES

Drill Size	Flute Length	Overall Length	Order No.	Std. Pkg.	Std. Ctn.
1/16"	3/8"	1 5/16"	01-H 004	10	100
5/64"	1/2"	1 1/2"	01-H 005	10	100
3/32"	9/16"	1 11/16"	01-H 006	10	100
7/64"	5/8"	1 13/16"	01-H 007	10	100
1/8"	11/16"	1 15/16"	01-H 008	10	100
9/64"	13/16"	2 1/16"	01-H 009	10	100
5/32"	7/8"	2 3/16"	01-H 010	10	100
11/64"	15/16"	2 5/16"	01-H 011	10	100
3/16"	1"	2 7/16"	01-H 012	10	100
13/64"	1"	2 7/16"	01-H 013	10	100
7/32"	1 1/8"	2 5/8"	01-H 014	10	100
15/64"	1 1/8"	2 5/8"	01-H 015	10	100
1/4"	1 1/4"	2 3/4"	01-H 016	10	100
17/64"	1 5/16"	2 15/16"	01-H 017	10	100
9/32"	1 5/16"	2 15/16"	01-H 018	10	100
19/64"	1 5/16"	2 15/16"	01-H 019	10	100
5/16"	1 7/16"	3 1/8"	01-H 020	10	100
21/64"	1 7/16"	3 1/8"	01-H 021	10	100
11/32"	1 9/16"	3 5/16"	01-H 022	10	100
23/64"	1 9/16"	3 5/16"	01-H 023	10	100
3/8"	1 11/16"	3 1/2"	01-H 024	10	100
25/64"	1 11/16"	3 1/2"	01-H 025	5	50
13/32"	1 11/16"	3 1/2"	01-H 026	5	50
27/64"	1 7/8"	3 3/4"	01-H 027	5	50
7/16"	1 7/8"	3 3/4"	01-H 028	5	50
29/64"	1 7/8"	3 3/4"	01-H 029	5	50
15/32"	2"	4"	01-H 030	5	50
31/64"	2"	4"	01-H 031	5	50
1/2"	2"	4"	01-H 032	5	50

Packaged in reusable plastic packaging.

### WIRE GAUGE SIZES

Drill Size	Flute Length	Overall Length	Order No.	Std. Pkg.	Std. Ctn.
1	1 1/8"	2 5/8"	01-J 001	10	100
2	1 1/8"	2 5/8"	01-J 002	10	100
3	1 1/8"	2 5/8"	01-J 003	10	100
4	1"	2 7/16"	01-J 004	10	100
5	1"	2 7/16"	01-J 005	10	100
6	1"	2 7/16"	01-J 006	10	100
7	1"	2 7/16"	01-J 007	10	100
8	1"	2 7/16"	01-J 008	10	100
9	1"	2 7/16"	01-J 009	10	100
10	1"	2 7/16"	01-J 010	10	100
11	1"	2 7/16"	01-J 011	10	100
12	1"	2 7/16"	01-J 012	10	100
13	15/16"	2 5/16"	01-J 013	10	100
14	15/16"	2 5/16"	01-J 014	10	100
15	15/16"	2 5/16"	01-J 015	10	100
16	15/16"	2 5/16"	01-J 016	10	100
17	15/16"	2 5/16"	01-J 017	10	100
18	15/16"	2 5/16"	01-J 018	10	100
19	7/8"	2 3/16"	01-J 019	10	100
20	7/8"	2 3/16"	01-J 020	10	100
21	7/8"	2 3/16"	01-J 021	10	100
22	7/8"	2 3/16"	01-J 022	10	100
23	7/8"	2 3/16"	01-J 023	10	100
24	7/8"	2 3/16"	01-J 024	10	100
25	7/8"	2 3/16"	01-J 025	10	100
26	7/8"	2 3/16"	01-J 026	10	100
27	13/16"	2 1/16"	01-J 027	10	100
28	13/16"	2 1/16"	01-J 028	10	100
29	13/16"	2 1/16"	01-J 029	10	100
30	1 1/16"	1 15/16"	01-J 030	10	100
31	5/8"	1 13/16"	01-J 031	10	100
32	5/8"	1 13/16"	01-J 032	10	100
33	5/8"	1 13/16"	01-J 033	10	100
34	5/8"	1 13/16"	01-J 034	10	100
35	5/8"	1 13/16"	01-J 035	10	100
36	5/8"	1 13/16"	01-J 036	10	100
37	9/16"	1 11/16"	01-J 037	10	100
38	9/16"	1 11/16"	01-J 038	10	100
39	9/16"	1 11/16"	01-J 039	10	100
40	9/16"	1 11/16"	01-J 040	10	100

Packaged in reusable plastic packaging.

## SST+™ 135° 3/8" REDUCED SHANK FRACTIONAL

### Round shank bits

For high tensile steel, fits in a 3/8" chuck

Our SST+ 3/8" reduced shank drill bits allow for the drilling of larger holes with drills that have a 3/8" chuck capacity. Their 135° self-centering split point allows for outstanding performance with much less pressure.



Drill Size	Flute Length	Overall Length	Order No.	Std. Pkg.	Std. Ctn.
25/64"	3 7/16"	5 1/4"	01-R 225	5	50
13/32"	3 7/16"	5 1/4"	01-R 226	5	50
27/64"	3 11/16"	5 1/2"	01-R 227	5	50
7/16"	3 11/16"	5 9/16"	01-R 228	5	50
29/64"	3 11/16"	5 9/16"	01-R 229	5	50
15/32"	4"	5 15/16"	01-R 230	5	50
31/64"	4"	5 15/16"	01-R 231	5	50
1/2"	4"	5 15/16"	01-R 232	5	50
17/32"	4 13/16"	6 5/8"	01-R 234	5	50
9/16"	4 13/16"	6 5/8"	01-R 236	5	50
5/8"	5 3/16"	7 1/8"	01-R 240	5	50

Packaged in reusable plastic packaging.

For sizes smaller than 3/64", use our jobber's length drill bits.

## SST+™ 135° 1/2" PRENTICE FRACTIONAL

### Three flats shank drill bits

For hole diameters >1/2", fits in a 1/2" chuck

SST+ 1/2" Prentice are heavy-duty large diameter drill bits for use in portable power drills, drill presses and magnetic base drills with 1/2" chuck capacity. Their extra hard tips allow for the drilling of many more holes between re-sharpenings. They are made with a cobalt blend for unmatched life and durability



Drill Size	Flute Length	Overall Length	Order No.	Std. Pkg.	Std. Ctn.
39/64"	3 1/8"	6"	01-M 533	1	10
17/32"	3 1/8"	6"	01-M 534	1	10
35/64"	3 1/8"	6"	01-M 535	1	10
9/16"	3 1/8"	6"	01-M 536	1	10
37/64"	3 1/8"	6"	01-M 537	1	10
19/32"	3 1/8"	6"	01-M 538	1	10
39/64"	3 1/8"	6"	01-M 539	1	10
5/8"	3 1/8"	6"	01-M 540	1	10
41/64"	3 1/8"	6"	01-M 541	1	10
21/32"	3 1/8"	6"	01-M 542	1	10
49/64"	3 1/8"	6"	01-M 543	1	10
11/16"	3 1/8"	6"	01-M 544	1	10
45/64"	3 1/8"	6"	01-M 545	1	10
23/32"	3 1/8"	6"	01-M 546	1	10
47/64"	3 1/8"	6"	01-M 547	1	10

3/4"	3 1/8"	6"	01-M 548	1	10
49/64"	3 1/8"	6"	01-M 549	1	10
25/32"	3 1/8"	6"	01-M 550	1	10
51/64"	3 1/8"	6"	01-M 551	1	10
13/16"	3 1/8"	6"	01-M 552	1	10
53/64"	3 1/8"	6"	01-M 553	1	10
27/32"	3 1/8"	6"	01-M 554	1	10
55/64"	3 1/8"	6"	01-M 555	1	10
7/8"	3 1/8"	6"	01-M 556	1	10
57/64"	3 1/8"	6"	01-M 557	1	10
29/32"	3 1/8"	6"	01-M 558	1	10
59/64"	3 1/8"	6"	01-M 559	1	10
15/16"	3 1/8"	6"	01-M 560	1	10
61/64"	3 1/8"	6"	01-M 561	1	10
31/32"	3 1/8"	6"	01-M 562	1	10
63/64"	3 1/8"	6"	01-M 563	1	10
1"	3 1/8"	6"	01-M 600	1	10
1 1/16"	3 1/8"	6"	01-M 604	1	10
1 1/8"	3 1/8"	6"	01-M 608	1	10
1 3/16"	3 1/8"	6"	01-M 612	1	10
1 1/4"	3 1/8"	6"	01-M 616	1	10
1 5/16"	3 1/8"	6"	01-M 617	1	10
1 3/8"	3 1/8"	6"	01-M 618	1	10
1 7/16"	3 1/8"	6"	01-M 619	1	10
1 1/2"	3 1/8"	6"	01-M 620	1	10

Packaged in reusable plastic packaging. For sizes smaller than 39/64", use our jobber's length drill bits.

## DRILL BIT SETS

Packaged in sturdy metal index containers or shock resistant, extra-thick polyethylene carrying case. Drill bit sizes are clearly marked on inside panels for easy identification and selection. The sets in metal boxes are ideal for use in a shop environment where they can be easily stored in a drawer or tool box. Sets in orange polyethylene carrying cases are an excellent option for contractors or off-site operations. They have a belt clip for ease of use and a threaded top that helps prevent the drill bits from going everywhere if the set is dropped.

Photo	Type	Sizes	Order No.	Qty Inside	Std. Pkg.	Std. Ctn.
A	SST+ 135° Jobbers length round shank, fractional	1/16" to 1/2" by 32 <sup>nds</sup>	01-E 606	15	1	10
B	SST+ 135° Jobbers length round shank, fractional	1/16" to 3/8" by 64 <sup>ths</sup>	01-E 621	21	1	10
B	SST 118° Jobbers length quick shank, fractional	1/16" to 3/8" by 64 <sup>ths</sup>	01-E 121	21	1	10
C	SST 118° Jobbers length quick shank, fractional/polymer case	1/16" to 1/2" by 64 <sup>ths</sup>	01-E 178	29	1	10
C	SST+ 135° Jobbers length round shank, fractional/polymer case	1/16" to 1/2" by 64 <sup>ths</sup>	01-E 678	29	1	10
C	SST+ 135° 3/6" reduced shank, fractional/polymer case	1/16" to 1/2" by 64 <sup>ths</sup>	01-E 818	29	1	10
D	SST+ 135° Stub length round shank, fractional/polymer case	1/16" to 1/2" by 64 <sup>ths</sup>	01-E 229	29	1	10
D	SST+ 135° Stub length quick shank, fractional/polymer case	1/16" to 1/2" by 64 <sup>ths</sup>	01-E 239	29	1	10
E	SST 118° Jobbers length quick shank, fractional/round case	1/16" to 1/2" by 64 <sup>ths</sup>	01-E 118	29	1	10
E	SST+ 135° Jobbers length round shank, fractional/round case	1/16" to 1/2" by 64 <sup>ths</sup>	01-E 618	29	1	10
F	SST+ 135° Jobbers length round shank, wire gauge	No. 1 to 60	01-E 619	60	1	10
G	SST+ 135° Prentice three flats, fractional	3/16" to 1" by 16 <sup>ths</sup>	01-E 708	8	1	10
H	SST+ 135° Jobbers length round shank, metric	1 to 13 mm by 0.5 mm	01-E 625	25	1	10



**A**  
1/16" to 1/2" by 32<sup>nds</sup>  
15 drill bits



**B**  
1/16" to 3/8" by 64<sup>ths</sup>  
21 drill bits



**C**  
1/16" to 1/2" by 64<sup>ths</sup>  
29 Jobbers Length drill bits



**D**  
1/16" to 1/2" by 64<sup>ths</sup>  
29 Stub Length drill bits



**E**  
1/16" to 1/2" by 64<sup>ths</sup>  
29 drill bits



**F**  
No. 1 to 60  
60 wire gauge drill bits



**G**  
3/16" to 1" by 16<sup>ths</sup>  
8 Prentice drill bits



**H**  
1 to 13 mm by 0.5 mm  
25 Metric drill bits



# MULTI-STEP™ DRILL BITS

Now with the exclusive ICECUT coating

Multi-Step drill bits are the fastest and easiest way to enlarge holes in sheet metal and other materials up to 1/8" thick.

- ▷ *Special AlCrN coating provides additional toughness and wear resistance to prolong tooling life, even when compared to titanium based coatings such as TiN or TiAlN*
- ▷ *2 wide cylindrical flutes eliminate chip build-up for faster drilling and to produce holes with minimal vibration or distortion*
- ▷ *Each shank has three flats for easy mounting*
- ▷ *Spiral fluting is ideal to improve speed when working with cordless power tools*
- ▷ *Straight fluting is ideal to ensure you get the proper hole size without warping on corded power tools*

Type	Order No.	Type of flute	Shank Dia	Overall Length	Step qty	Step thick.	Step size	Std. Pkg.	Std. Ctn.
A	01-W 001	SPIRAL	1/4"	2 15/16"	13	1/8"	1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2"	1	10
B	01-W 005	SPIRAL	3/8"	3 1/4"	12	1/8"	3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"	1	10
C	01-W 011	SPIRAL	3/8"	2 3/4"	9	1/8"	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"	1	10
D	01-W 012	SPIRAL	3/8"	3 3/16"	10	9/64"	1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1 1/8", 1 1/4", 1 3/8"	1	10
E	01-W 021	SPIRAL	1/4"	3 1/8"	6	1/8"	3/16", 1/4", 5/16", 3/8", 7/16", 1/2"	1	10
F	01-W 029	SPIRAL	3/8"	3 1/4"	10	1/8"	1/4", 13/32", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"	1	10
A	01-W 101	STRAIGHT	1/4"	2 15/16"	13	1/8"	1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2"	1	10
B	01-W 105	STRAIGHT	3/8"	2 15/16"	12	1/8"	3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"	1	10
C	01-W 111	STRAIGHT	3/8"	2 3/4"	9	1/8"	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"	1	10
D	01-W 112	STRAIGHT	3/8"	3 3/16"	10	9/64"	1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1 1/8", 1 1/4", 1 3/8"	1	10

Packaged in reusable plastic packaging.



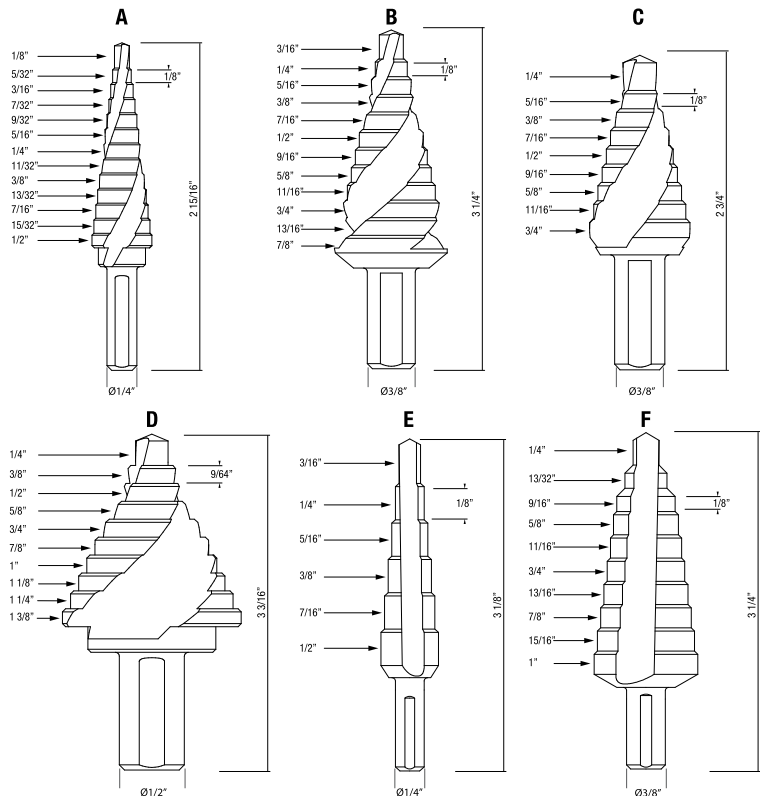
## STEP DRILL SET

Contains the three Multi-Step bits needed for all hole sizes from 1/8" - 1 1/8".

Each kit contains:

- 01-W 001
- 01-W 005
- 01-W 012

Order No. 01-W 951



## COUNTERSINKS

Now with the exclusive ICECUT coating

Made of M2Al to minimize vibration and maximize product life. Also features an exclusive AlCrN coating to provide greater heat resistance to further extend product life. The 82° point angle is ideal for countersinking but they can also be used for deburring and chamfering in steel, stainless steel and non-ferrous metals

- ▷ *Thicker teeth for added stability*
- ▷ *Special coating reducing frictional heat*
- ▷ *Exclusive coating for optimized tool life*
- ▷ *Special tip geometry for a uniform chamfer*



### COUNTERSINKS

Dia.	Angle	Overall Length	Shank Dia.	Order No.	Std. Pkg.	Std. Ctn.
1/4"	82°	2"	3/16"	01-U 004	1	10
5/16"	82°	2"	1/4"	01-U 005	1	10
3/8"	82°	2"	5/16"	01-U 006	1	10
1/2"	82°	2"	5/16"	01-U 008	1	10
5/8"	82°	2 1/4"	3/8"	01-U 010	1	10
3/4"	82°	2 3/4"	3/8"	01-U 012	1	10
1"	82°	2 3/4"	3/8"	01-U 100	1	10

Packaged in reusable plastic packaging.

### COUNTERSINKS

Dia.	Angle	Overall Length	Shank Dia.	Order No.	Std. Pkg.	Std. Ctn.
1"	82°	1 3/4"	3/4"	01-U 400	1	10
1 1/2"	82°	2"	3/4"	01-U 408	1	10
2"	82°	2 1/4"	3/4"	01-U 500	1	10

Packaged in reusable plastic packaging.



### COUNTERSINK SET

Contains the four most popular countersinks (sizes 1/4", 3/8", 1/2", 3/4") and cutting lubricant. Packaged in a reclosable resistant plastic case.

Each kit contains:

- 01-U 004
- 01-U 006
- 01-U 008
- 01-U 012
- 01-U 100

**Order No.** 01-U 950



#### Tech tip!

For increased cutting efficiency and tool life, use COOLCUT solid stick lubricant  
**Order No.:** 53-B 013

# SST™ HIGH PERFORMANCE POWER TAPS

Specially designed for use on reversible portable drills, SST™ power taps are guaranteed to work faster and last longer than standard taps in steel, stainless steel and other ferrous or non-ferrous metals. SST™ power taps eliminate slow hand tapping to increase productivity and reduce overall production costs.

**GUARANTEED**  
TO TAP FASTER  
AND LAST LONGER

Tap Size	Overall Length	Drill Size	Order No.	Std. Pkg.	Std. Ctn.
6-32 NC	2 1/2"	#36	03-A 561	1	10
6-40 NF	2 1/2"	#33	03-A 564	1	10
8-32 NC	2 15/16"	#29	03-A 581	1	10
8-36 NF	2 15/16"	#29	03-A 584	1	10
10-24 NC	2 15/16"	#25	03-A 601	1	10
10-32 NF	2 15/16"	#21	03-A 604	1	10
12-24 NC	3 3/16"	#16	03-A 621	1	10
12-28 NF	3 3/16"	#15	03-A 624	1	10
1/4"-20 NC	3 3/16"	#7	03-B 541	1	10
1/4"-28 NF	3 3/16"	#3	03-B 544	1	10
5/16"-18 NC	3 11/16"	F	03-B 551	1	10
5/16"-24 NF	3 11/16"	I	03-B 554	1	10
3/8"-16 NC	4 3/32"	5/16"	03-B 561	1	10
3/8"-24 NF	4 3/32"	Q	03-B 564	1	10
7/16"-14 NC	4 3/32"	U	03-B 571	1	10
7/16"-20 NF	3 15/16"	25/64"	03-B 574	1	10
1/2"-13 NC	4 5/16"	27/64"	03-B 581	1	10
1/2"-20 NF	4 5/16"	29/64"	03-B 584	1	10
9/16"-12 NC	4 5/16"	31/64"	03-B 591	1	10
9/16"-18 NF	4 5/16"	33/64"	03-B 594	1	10
5/8"-11 NC	4 5/16"	17/32"	03-B 601	1	10
5/8"-18 NF	4 5/16"	37/64"	03-B 604	1	10
3/4"-10 NC	4 5/16"	21/32"	03-B 621	1	10
3/4"-16 NF	4 5/16"	11/16"	03-B 624	1	10
7/8"-9 NC	4 5/16"	49/64"	03-B 641	1	10
7/8"-14 NF	4 5/16"	13/16"	03-B 644	1	10
1"-8 NC	4 5/16"	7/8"	03-B 661	1	10
1"-12 NF	4 5/16"	59/64"	03-B 664	1	10

Tap drill size marked on shank (tap sizes 12-24 and over).  
Packaged in reusable plastic packaging.



- ▷ 3 flats to fit any drill chuck without slippage
- ▷ Special power tip ejects chips ahead of tap and self-aligns with hole axis for high quality threads
- ▷ Premium HSS body, ground threads, 3-flute plug style with SST surface treatment for long tap life
- ▷ Special long and resistant shank for tapping deep or difficult to reach holes

## SST power taps and drill bit sets

### Power taps:

10-24 NC, 10-32 NF, 1/4"-20 NC, 5/16"-18 NC and 3/8"-16 NC

### Drill bits:

#25, #21, #7, F and 5/16"

Order No. 03-B 952



## NC SST power taps and drill bit sets

### Power taps:

6-32 NC, 8-32 NC, 10-24 NC, 12-24 NC 1/4"-20 NC, 5/16"-18 NC, 3/8"-16 NC, 7/16"-14 NC and 1/2"-13 NC

### Drill bits:

#36, #29, #25, #16, #7, F, 5/16", U and 27/64"

Order No. 03-B 953



## NF SST power taps and drill bit sets

### Power taps:

6-40 NF, 8-36 NF, 10-32 NF, 12-28 NF, 1/4"-28 NF, 5/16"-24 NF, 3/8"-24 NF, 7/16"-20 NF and 1/2"-20 NF

### Drill bits:

#33, #29, #21, #15, #3, I, Q, 25/64" and 29/64"

Order No. 03-B 954



### Tech tip!

For increased cutting efficiency and tool life, use TAPCUT lubricant (see next page)



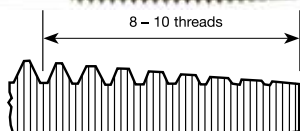
## SST+ HSS™ HAND TAPS

Made from premium quality high speed steel with ground threads, hardened and tempered for longest life in a variety of materials.

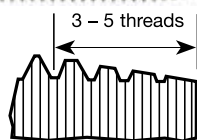
- ▷ Precision ground threads with eccentric relief for free cutting action
- ▷ Three and four flute designs
- ▷ Available in three chamfer lengths for through or blind hole tapping
- ▷ Special bronze SST surface treatment to improve life and tapping speed



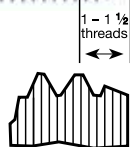
Taper



Plug



Bottoming



## TAPCUT™

Thread cutting lubricant

Specially formulated to improve life and tapping speed when working with taps and dies.

Desc.	Size	Order No.	MSDS	Std. Pkg.
	Metric US Gal			
Squ. bottle	350 ml 11.8 oz	53-A 103	L-115E	12
Liquid	20 L 5.2 gal	53-A 107	L-115E	1
<b>Accessories</b>		<b>Order No.</b>		
Spout for 20 L pail		53-L 207		

## MACHINE SCREW AND FRACTIONAL SIZES

Tap Size x Threads per inch	Drill Size	Taper	Plug	Bottoming	Std. Pkg.	Std. Ctn.
4-40 NC	#43	03-A 041	03-A 042	03-A 043	3	30
5-40 NC	#38	03-A 051	03-A 052	03-A 053	3	30
6-32 NC	#36	03-A 061	03-A 062	03-A 063	3	30
8-32 NC	#29	03-A 081	03-A 082	03-A 083	3	30
10-24 NC	#25	03-A 101	03-A 102	03-A 103	3	30
10-32 NF	#21	03-A 104	03-A 105	03-A 106	3	30
12-24 NC	#16	03-A 121	03-A 122	03-A 123	3	30
1/4"-20 NC	#7	03-B 041	03-B 042	03-B 043	3	30
1/4"-28 NF	#3	03-B 044	03-B 045	03-B 046	3	30
5/16"-18 NC	F	03-B 051	03-B 052	03-B 053	3	30
5/16"-24 NF	17/64"	03-B 054	03-B 055	03-B 056	3	30
3/8"-16 NC	5/16"	03-B 061	03-B 062	03-B 063	3	30
3/8"-24 NF	21/64"	03-B 064	03-B 065	03-B 066	3	30
7/16"-14 NC	U	03-B 071	03-B 072	03-B 073	3	30
7/16"-20 NF	25/64"	03-B 074	03-B 075	03-B 076	3	30
1/2"-13 NC	27/64"	03-B 081	03-B 082	03-B 083	3	30
1/2"-20 NF	29/64"	03-B 084	03-B 085	03-B 086	3	30
9/16"-12 NC	31/64"	03-B 091	03-B 092	03-B 093	1	10
9/16"-18 NF	33/64"	03-B 094	03-B 095	03-B 096	1	10
5/8"-11 NC	17/32"	03-B 101	03-B 102	03-B 103	1	10
5/8"-18 NF	37/64"	03-B 104	03-B 105	03-B 106	1	10
3/4"-10 NC	21/32"	03-B 121	03-B 122	03-B 123	1	10
3/4"-16 NF	11/16"	03-B 124	03-B 125	03-B 126	1	10
7/8"-9 NC	49/64"	03-B 141	03-B 142	03-B 143	1	10
7/8"-14 NF	19/16"	03-B 144	03-B 145	03-B 146	1	10
1"-8 NC	7/8"	03-B 161	03-B 162	03-B 163	1	10
1"-12 NF	7/8"	03-B 164	03-B 165	03-B 166	1	10

Packaged in reusable plastic packaging.

## METRIC SIZES

Tap Size x Pitch (mm)	Taper	Std. Pkg.	Std. Ctn.
3.0 x .50	03-D 031	3	30
4.0 x .70	03-D 041	3	30
5.0 x .80	03-D 051	3	30
6.0 x 1.00	03-D 061	3	30
8.0 x 1.25	03-D 081	3	30
10.0 x 1.50	03-D 101	3	30
12.0 x 1.75	03-D 121	3	30

Packaged in reusable plastic packaging.

## TAPER PIPE TAPS (NPT)

Made from tough carbon alloy tool steel to cut new threads or repair damaged threads in pipe fittings. For use in steel and non-ferrous metals.



Nominal Size Inch	Thread per inch	Drill Size	Order No.	Std. Pkg.	Std. Ctn.
1/16"	27	D	02-C 010	1	10
1/8"	27	11/32"	02-C 020	1	10
1/4"	18	7/16"	02-C 040	1	10
3/8"	18	37/64"	02-C 060	1	10
1/2"	14	49/64"	02-C 080	1	10
3/4"	14	59/64"	02-C 120	1	10
1"	11 1/2	1 5/32"	02-C 160	1	10
1 1/4"	11 1/2	1 1/2"	02-C 200	1	10
1 1/2"	11 1/2	1 47/64"	02-C 240	1	10
2"	11 1/2	2 7/32"	02-C 320	1	10

Packaged in reusable plastic packaging.

## TAPER PIPE TAP SET

Contains one of each of the following NPT taps:  
 1/8": 02-C 020  
 1/4": 02-C 040  
 3/8": 02-C 060  
 1/2": 02-C 080  
**Order No. 02-C 500**



### Tech tip!

For increased cutting efficiency and tool life, use TAPCUT lubricant

## TAP WRENCHES

Premium quality tool stock, all jaws and set screws are hardened and tempered for optimum tool life.

### ADJUSTABLE TAP WRENCHES

No.	Capacity	Order No.	Std. Pkg.	Std. Ctn.
1	1/16" - 1/4"	02-W 010	1	10
1 1/2	3/16" - 1/2"	02-W 015	1	10
3	1/4" - 3/4"	02-W 030	1	10
4	3/8" - 1"	02-W 040	1	10

Packaged in reusable plastic packaging.

### T-HANDLE TAP WRENCH WITH 3-POSITION RATCHET

No.	Capacity	Order No.	Std. Pkg.	Std. Ctn.
1-T	5/32 to 1/4"	02-W 100	1	10
2-T	1/4" to 1/2"	02-W 200	1	10

Packaged in reusable plastic packaging.



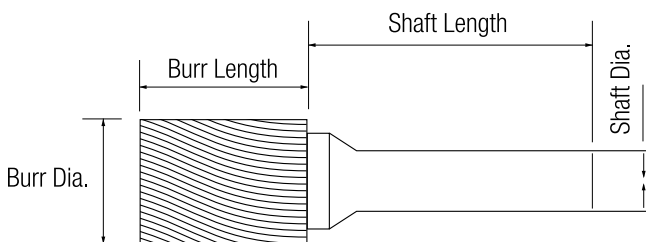




## CARBIDE BURRS

High performance

Walter carbide burrs are made from the highest grade tungsten carbide and are manufactured to ensure perfect concentricity and balance. This means you get a product that is safer, removes material faster and is guaranteed to provide the longest working life in the industry.





















## HIGH STRENGTH BRAZED JOINT GUARANTEED TO PREVENT BREAKAGE

- ▷ *Precise manufacturing – Burrs run perfectly true without vibration*
- ▷ *First grade tungsten carbide – For the toughest applications in a wide range of materials*
- ▷ *Exclusive tooth design – Guarantees maximum cutting performance*
- ▷ *Advanced flute geometry – Ensures maximum cutting capacity and chip evacuation from tip to bottom*

### 1/4" SHANK Ø, DOUBLE CUT



Burr Dia.xLength	USCTI Type	Std. Lgth. Order No.	6" Shank Order No.	Std. Pkg.	Std. Ctn.
<b>Cylindrical (SA)</b>					
 1/4" x 5/8"	SA-1	01-V 001	01-V 601	1	10
 5/16" x 3/4"	SA-2	01-V 037		1	10
 3/8" x 3/4"	SA-3	01-V 002	01-V 602	1	10
 7/16" x 1"	SA-4	01-V 038		1	10
 1/2" x 1"	SA-5	01-V 004	01-V 604	1	10
 5/8" x 1"	SA-6	01-V 055		1	10
<b>Cylindrical (SB)</b>					
 1/4" x 5/8"	SB-1	01-V 056		1	10
 3/8" x 3/4"	SB-3	01-V 057		1	10
 1/2" x 1"	SB-5	01-V 059		1	10
<b>Cylindrical round nose (SC)</b>					
 1/4" x 5/8"	SC-1	01-V 005	01-V 605	1	10
 5/16" x 3/4"	SC-2	01-V 039		1	10
 3/8" x 3/4"	SC-3	01-V 006	01-V 606	1	10
 7/16" x 1"	SC-4	01-V 040		1	10
 1/2" x 1"	SC-5	01-V 007	01-V 607	1	10
 5/8" x 1"	SC-6	01-V 062		1	10
 3/4" x 1"	SC-7	01-V 073		1	10
<b>Ball (SD)</b>					
 1/4" x 7/32"	SD-1	01-V 009	01-V 609	1	10
 3/8" x 5/16"	SD-3	01-V 010	01-V 610	1	10
1/2" x 7/16"	SD-5	01-V 026	01-V 626	1	10
5/8" x 9/16"	SD-6	01-V 011		1	10
<b>Egg (SE)</b>					
3/8" x 5/8"	SE-3	01-V 027		1	10
1/2" x 7/8"	SE-5	01-V 028		1	10
<b>Tree (SF)</b>					
1/4" x 5/8"	SF-1	01-V 041	01-V 641	1	10
5/16" x 5/8"	SF-2	01-V 042		1	10
3/8" x 3/4"	SF-3	01-V 014	01-V 614	1	10
7/16" x 1"	SF-4	01-V 043		1	10
1/2" x 1"	SF-5	01-V 015	01-V 615	1	10
5/8" x 1"	SF-6	01-V 066		1	10
<b>Tapered (SG)</b>					
1/4" x 5/8"	SG-1	01-V 044	01-V 644	1	10
5/16" x 3/4"	SG-2	01-V 045		1	10
3/8" x 3/4"	SG-3	01-V 046	01-V 646	1	10
1/2" x 1"	SG-5	01-V 013	01-V 613	1	10
<b>Flame (SH)</b>					
5/16" x 3/4"	SH-3	01-V 029		1	10
1/2" x 1 1/4"	SH-5	01-V 030		1	10
<b>Cone 90° (SK)</b>					
3/8" x 1/8"	SK-3	01-V 067		1	10
1/2" x 1/4"	SK-5	01-V 068		1	10
<b>Cone (SL)</b>					
1/4" x 5/8"	SL-1 14°	01-V 017		1	10
5/16" x 7/8"	SL-2	01-V 051		1	10
3/8" x 1 1/16"	SL-3 14°	01-V 031	01-V 631	1	10
1/2" x 1 1/8"	SL-4 14°	01-V 032		1	10
5/8" x 3/16"	SL-5	01-V 052	01-V 652	1	10
<b>Conical (SM)</b>					
1/4" x 1/2"	SM-1	01-V 047		1	10
1/4" x 3/4"	SM-2	01-V 048		1	10
1/4" x 1"	SM-3	01-V 049		1	10
3/8" x 5/8"	SM-4	01-V 050		1	10
1/2" x 7/8"	SM-5 28°	01-V 018		1	10
<b>Inverted cone (SN)</b>					
1/4" x 1/2"	SN-1	01-V 070		1	10
1/4" x 3/4"	SN-2	01-V 071		1	10
1/4" x 1"	SN-4	01-V 072		1	10

**1/4" SHANK Ø, NON-FERROUS,  
ALUMINUM AND SOFT METALS**



Burr Dia.x.Length	USCTI Type	Order No.	Std. Pkg.	Std. Ctn.
3/8" x 3/4"	SA-3	01-V 003	1	10
1/2" x 1"	SA-5	01-V 054	1	10
3/8" x 3/4"	SB-3	01-V 058	1	10
1/4" x 5/8"	SC-1	01-V 060	1	10
3/8" x 3/4"	SC-3	01-V 061	1	10
1/2" x 1"	SC-5	01-V 008	1	10
1/2" x 1/2"	SD-5	01-V 063	1	10
1/2" x 7/8"	SE-5	01-V 064	1	10
3/8" x 3/4"	SF-3	01-V 065	1	10
1/2" x 1"	SF-5	01-V 016	1	10
3/8" x 1 1/4"	SL-3	01-V 036	1	10
1/2" x 1 1/8"	SL-4	01-V 069	1	10



**CARBIDE BURR  
PRODUCTION KIT**

Contains one of each of the following:  
01-V 002, 006, 011, 015 and 018

Order No. 01-V 990

**1/4" SHANK Ø, HARD ALLOYS**



Burr Dia.x.Length	USCTI Type	Order No.	Std. Pkg.	Std. Ctn.
1/2" x 1"	SC-5	01-V 033	1	10
1/2" x 1"	SF-5	01-V 034	1	10
1/2" x 1 1/8"	SL-4	01-V 035	1	10

**5-PIECE ALU CUT  
CARBIDE BURR KIT**

Order No. 01-V 995

**1/8" SHANK Ø, DOUBLE CUT**



Burr Dia.x.Length	USCTI Type	Order No.	Std. Pkg.	Std. Ctn.
1/8" x 9/16"	SA-43	01-V 020	1	10
1/8" x 1/8"	SD-42	01-V 021	1	10
1/8" x 1/2"	SF-42	01-V 022	1	10
1/8" x 1/2"	SG-44	01-V 023	1	10
1/8" x 1/2"	SL-42	01-V 024	1	10
1/8" x 7/16"	SM-42 12°	01-V 025	1	10

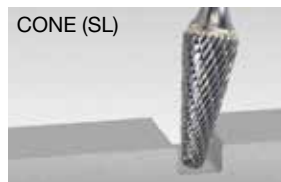
**10-PIECE DOUBLE CUT  
CARBIDE BURR KIT**

Order No. 01-V 996

Burr diameter	Maximum cutting speed (RPM)	Maximum cutting speed (RPM)
	for standard length burrs	for 6" long burrs
1/4"	70,000	35,000
5/16"	68,000	34,000
3/8"	66,000	33,000
7/16"	58,000	29,000
1/2"	50,000	25,000
5/8"	40,000	20,000

For safety reasons, never use the 6" tungsten carbide burrs below 20,000 RPM.

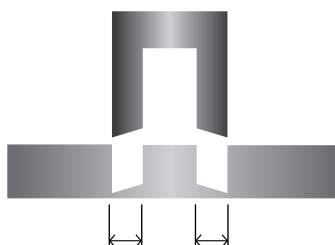
Material	Double cut	Non-ferrous	Material	Double cut	Non-ferrous
Aluminum	-	x	Steel - 45-55Rc	x	-
Brass	x	x	Steel - 55-60Rc	x	-
Bronze	x	-	Steel - Carbon	x	-
Cast iron	x	-	Steel - Nickel Chrome	x	-
Copper	-	x	Steel - Stainless	x	-
Carbon fiber	-	x	Steel - Weldments	x	-
Fiberglass	x	-	Titanium	x	-
Hard rubber	x	-	Zinc	-	x
Inconel	x	-			
Magnesium	-	x			
Plastics	x	-			



# HIGH PERFORMANCE ANNULAR CUTTERS

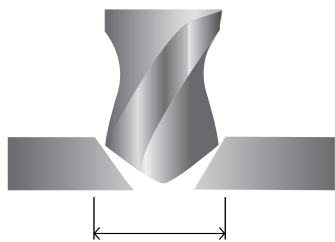
**When drilling large holes through thick, flat metal surfaces, it is often more cost effective to use an annular cutter, which cuts at the circumference of the circle, instead of cutting through the entire area of the circle. This allows you to make holes faster and more efficiently.**

## Annular cutters



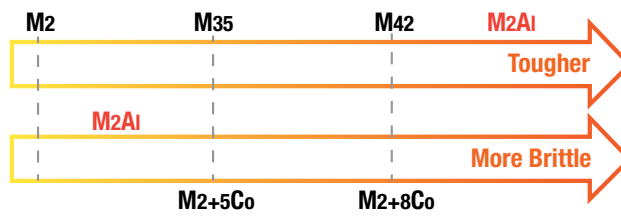
Less metal to metal contact reduces friction, reducing heat, increasing tool life and efficiency

## Regular twist drills



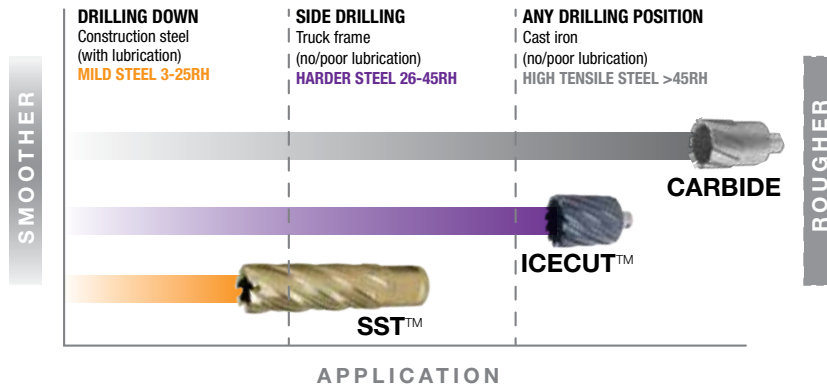
More metal to metal contact increases friction and heat, causing tooling to wear prematurely and resulting in longer cutting time

Walter annular cutters are tougher because they are made with a sophisticated high speed steel and aluminum blend (M2Al). This advanced HSS blend extends the life of the core cutters by providing excellent toughness and durability, while also reducing the brittleness of the cutter. Conventional cutting tools are typically enhanced with cobalt to increase the resistance to wear (M35 or M42). However, as more cobalt is added, the product actually becomes more brittle, which increases the risk of breakage under load. Through a graduated hardening of the cutter body, and by adding aluminum to the base material, Walter core cutters have more “micro-flexibility” than M35 or M42 core cutters. This makes Walter HSS annular cutters less brittle than a regular M42 annular cutter, and also makes them last much longer than other high speed steels. An exclusive triple tooth design and special fluting angle help optimize chip evacuation and eliminate chip debris. Walter’s exclusive AlCrN coating on the ICECUT™ line of coated annular cutters forms a nano-sized lubrication layer when heated, making it self-lubricating and preventing materials from sticking, melting or deforming during hole-making. The ICECUT™ annular cutters provide the longest life of all coated HSS annular cutters.



Adding Cobalt makes cutters more resistant to wear, but also more brittle which makes them more susceptible to breakage under pressure. M2Al provides an ideal blend of extreme toughness without a kind of “micro-flexibility” not found in standard cobalt blends.

# HIGH PERFORMANCE ANNULAR CUTTERS



Recommended usage			
	SST Core Cut	Icecut	Carbide Core Cut
<b>SPECIFICATIONS</b>			
Diameter Range	1/2" - 2 3/8"	1/2" - 2 3/8"	1/2" - 2 3/8"
Drilling Depth	1" and 2"	1" and 2"	1 1/2" and 2"
Shank Size	3/4"	3/4"	3/4"
Shank Type	Universal & Weldon shank with 2 flats	Universal & Weldon shank with 2 flats	Universal & Weldon shank with 2 flats
<b>MATERIAL</b>			
Mild Steel (3 to 25 HRC)	✓	✓	✓
Harder Steel (26 to 45 HRC)	✓	✓	✓
Stainless Steel (300 and 400 series)	✓	✓	✓
Cast Iron	—	✓	✓
Aluminum	✓	✓	✓
Brass and Bronze	✓	✓	✓
Hardox / Scandia	—	—	✓
Rough / Uneven material	—	—	✓
Railroad Track	—	—	✓
<b>CHARACTERISTICS</b>			
Cutting Speed	Fast	Very Fast	Extra Fast
Cutter Life	Long	Very Long	Extra Long

- ✓ Highly Recommended
- ✓ Recommended

## CUTTING LUBRICANTS

To improve the life and cutting speed of annular cutters, we highly recommend that you use these Walter high performance cutting lubricants.



Material worked on	Description	Order No.	Size	MSDS
Mild and hard steel	COOLCUT, solid stick	53-B 013	300 g	L-22E
Mild and hard steel	ICECUT, liquid	* 53-C 055	3.78 L	L-122E
Mild and hard steel	ICECUT, liquid	* 53-C 057	20 L	L-122E
Aluminum	ALUCUT, solid stick	53-B 303	300 g	L-04E
All metals	TAPCUT, bottle	53-A 103	350 ml	L-115E
All metals	TAPCUT, liquid	53-A 105	3.78 L	L-115E
All metals	TAPCUT, liquid	53-A 107	20 L	L-115E

\* ICECUT lubricants are biodegradable

# SST™ CORE CUT ANNULAR CUTTERS

Guaranteed to outperform all uncoated cutters

Super Speed Tip (SST) Core Cutters are made with state-of-the-art surface treatment technology that removes porosity during the fabrication process. This creates a perfectly smooth finish which allows for a better evacuation of material while drilling. It also helps to improve product life and reduce drilling time as it decreases friction with the work surface, which in turn reduces the amount of heat generated.



Diameter		Pqt std	Weldon Shank			Universal Shank	
Inches	mm		1" cutters Order No.	2" cutters Order No.	3" cutters Order No.	1" cutters Order No.	2" cutters Order No.
Use with pilot pin			05-Z 001	05-Z 002	05-Z 018	05-Z 029	05-Z 002
7/16"	11.1	1				05-E 007	
1/2"	12.7	1	05-A 008	05-A 308		05-E 008	05-E 308
9/16"	14.3	1	05-A 009	05-A 309		05-E 009	05-E 309
5/8"	15.9	1	05-A 010	05-A 310		05-E 010	05-E 310
11/16"	17.5	1	05-A 011	05-A 311	05-A 611	05-E 011	05-E 311
3/4"	19.0	1	05-A 012	05-A 312		05-E 012	05-E 312
13/16"	20.6	1	05-A 013	05-A 313	05-A 613	05-E 013	05-E 313
7/8"	22.2	1	05-A 014	05-A 314		05-E 014	05-E 314
15/16"	23.8	1	05-A 015	05-A 315	05-A 615	05-E 015	05-E 315
1"	25.4	1	05-A 100	05-A 400		05-E 100	05-E 400
1 1/16"	27.0	1	05-A 101	05-A 401	05-A 701	05-E 101	05-E 401
1 1/8"	28.6	1	05-A 102	05-A 402		05-E 102	05-E 402
1 3/16"	30.2	1	05-A 103	05-A 403		05-E 103	05-E 403
1 1/4"	31.8	1	05-A 104	05-A 404		05-E 104	05-E 404
1 5/16"	33.3	1	05-A 105	05-A 405		05-E 105	05-E 405
1 3/8"	34.9	1	05-A 106	05-A 406		05-E 106	05-E 406
1 7/16"	36.5	1	05-A 107	05-A 407		05-E 107	05-E 407
1 1/2"	38.1	1	05-A 108	05-A 408		05-E 108	05-E 408
1 9/16"	39.7	1	05-A 109	05-A 409			05-E 409
1 5/8"	41.3	1	05-A 110	05-A 410			
1 3/4"	44.5	1	05-A 112	05-A 412			
1 13/16"	46.0	1	05-A 113	05-A 413			
1 7/8"	47.6	1	05-A 114	05-A 414			
1 15/16"	49.2	1	05-A 115	05-A 415			
2"	51.0	1	05-A 200	05-A 500			
2 1/16"	52.4	1	05-A 201	05-A 501			
2 1/8"	54.0	1	05-A 202	05-A 502			
2 3/16"	55.6	1	—	05-A 503			
2 1/4"	57.2	1		05-A 504			
2 5/16"	58.7	1		05-A 505			
2 3/8"	60.3	1		05-A 506			

- ▷ Drills faster
- ▷ Lasts longer
- ▷ Universal shank
- ▷ Exclusive SST surface treatment
- ▷ Multiple tooth design



Packaged in reusable plastic packaging.

Other sizes are available upon special request. Please speak with your Walter sales representative.

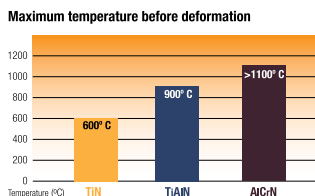
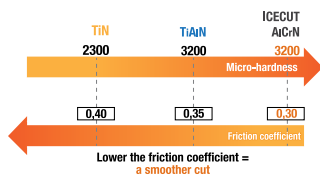
# ICECUT™ ANNULAR CORE CUTTERS

Guaranteed to drill more holes in less time!

ICECUT annular cutters are coated with an exclusive mixture of chromium and aluminum (AlCrN) and are designed to be used where lubricants are not permitted or problematic to apply. This new technology outperforms any annular core cutters coated with Titanium (TiN) or Titanium-Aluminum (TiAlN). By incorporating a chromium aluminum blend into the coating, Walter ICECUT annular cutters generate less heat and can withstand temperatures at least 200°C higher than conventional TiAlN cutters. This exclusive coating makes the ICECUT more resistant to higher stress under load and impact.



- ▶ Well known quality and durability
- ▶ Lasts longer than uncoated core cutters
- ▶ Exclusive ICECUT AlCrN coating
- ▶ Fully ground extra large flutes



Diameter Inches	mm	Std Pkg.	Weldon Shank				Universal Shank	
			1" cutters Order No.	2" cutters Order No.	3" cutters Order No.	4" cutters Order No.	1" cutters Order No.	2" cutters Order No.
Use with pilot pin			05-Z 001	05-Z 002			05-Z 029	05-Z 030
7/16"	11.1	1					05-F 007	05-F 307
1/2"	12.7	1	05-B 008	05-B 308			05-F 008	05-F 308
9/16"	14.3	1	05-B 009	05-B 309			05-F 009	05-F 309
5/8"	15.9	1	05-B 010	05-B 310			05-F 010	05-F 310
11/16"	17.5	1	05-B 011	05-B 311	05-B 611	05-B 811	05-F 011	05-F 311
3/4"	19.0	1	05-B 012	05-B 312			05-F 012	05-F 312
13/16"	20.6	1	05-B 013	05-B 313	05-B 613	05-B 813	05-F 013	05-F 313
7/8"	22.2	1	05-B 014	05-B 314			05-F 014	05-F 314
15/16"	23.8	1	05-B 015	05-B 315	05-B 615	05-B 815	05-F 015	05-F 315
1"	25.4	1	05-B 100	05-B 400			05-F 100	05-F 400
1 1/16"	27.0	1	05-B 101	05-B 401	05-B 701	05-B 901	05-F 101	05-F 401
1 1/8"	28.6	1	05-B 102	05-B 402			05-F 102	05-F 402
1 3/16"	30.2	1	05-B 103	05-B 403			05-F 103	05-F 403
1 1/4"	31.8	1	05-B 104	05-B 404			05-F 104	05-F 404
1 5/16"	33.3	1	05-B 105	05-B 405			05-F 105	05-F 405
1 3/8"	34.9	1	05-B 106	05-B 406			05-F 106	05-F 406
1 7/16"	36.5	1	05-B 107	05-B 407			05-F 107	05-F 407
1 1/2"	38.1	1	05-B 108	05-B 408			05-F 108	05-F 408
1 9/16"	39.7	1	05-B 109	05-B 409				
1 5/8"	41.3	1	05-B 110	05-B 410				
1 3/4"	44.5	1	05-B 112	05-B 412				
1 13/16"	46.0	1	05-B 113	05-B 413				
1 7/8"	47.6	1	05-B 114	05-B 414				
1 15/16"	49.2	1	05-B 115	05-B 415				
2"	51.0	1	05-B 200	05-B 500				
2 1/16"	52.4	1	05-B 201	05-B 501				
2 1/8"	54.0	1	05-B 202	05-B 502				
2 3/16"	55.6	1		05-B 503				
2 1/4"	57.2	1		05-B 504				
2 5/16"	58.7	1		05-B 505				
2 3/8"	60.3	1		05-B 506				

Packaged in reusable plastic packaging.

Other sizes are available upon special request. Please speak with your Walter sales representative.

# CARBIDE CORE CUT ANNULAR CUTTERS

Top performance and maximum productivity on hard metals and uneven surfaces!

Walter Carbide Core Cut annular cutters accurately drill large diameter holes in a variety of hard or abrasive materials such as stainless steel, cast iron, tough alloys or composite materials. They outperform and outlast conventional HSS cutters and allow for higher speed and feed rates while requiring less effort to cut through some of the industry's toughest metals.

Diameter		Std Pkg.	Weldon Shank		Universal Shank	
Inches	mm		1 1/2" cutters Order No.	2" cutters Order No.	1" cutters Order No.	2" cutters Order No.
Use with pilot pin			<b>05-Z 019</b>	<b>05-Z 021</b>	<b>05-Z 029</b>	<b>05-Z 030</b>
1/2"	12.7	1	05-D 008	05-D 308	05-H 008	05-H 308
9/16"	14.3	1	05-D 009	05-D 309	05-H 009	05-H 309
5/8"	15.9	1	05-D 010	05-D 310	05-H 010	05-H 310
11/16"	17.5	1	05-D 011	05-D 311	05-H 011	05-H 311

- ▷ Specially designed lubricant zone (maintains lubrication at the TCT – Tungsten Carbide Tips)
- ▷ Improved heat transfer
- ▷ Longer life
- ▷ Faster cutting

Diameter		Std Pkg.	Weldon Shank				Universal Shank	
Inches	mm		1 1/2" cutters Order No.	2" cutters Order No.	3" cutters Order No.	4" cutters Order No.	1" cutters Order No.	2" cutters Order No.
Use with pilot pin			<b>05-Z 020</b>	<b>05-Z 022</b>	05-Z 018 or 05-Z 032	05-Z 031 or 05-Z 033	<b>05-Z 020</b>	<b>05-Z 022</b>
3/4"	19.0	1	05-D 012	05-D 312		05-D 812	05-H 012	05-H 312
13/16"	20.6	1	05-D 013	05-D 313	05-D 613	05-D 813	05-H 013	05-H 313
7/8"	22.2	1	05-D 014	05-D 314			05-H 014	05-H 314
15/16"	23.8	1	05-D 015	05-D 315	05-D 615	05-D 815	05-H 015	05-H 315
1"	25.4	1	05-D 100	05-D 400	05-D 700	05-D 900	05-H 100	05-H 400
1 1/16"	27.0	1	05-D 101	05-D 401	05-D 701	05-D 901	05-H 101	05-H 401
1 1/8"	28.6	1	05-D 102	05-D 402			05-H 102	05-H 402
1 3/16"	30.2	1	05-D 103	05-D 403			05-H 103	05-H 403
1 1/4"	31.8	1	05-D 104	05-D 404			05-H 104	05-H 404
1 5/16"	33.3	1	05-D 105	05-D 405			05-H 105	05-H 405
1 3/8"	34.9	1	05-D 106	05-D 406			05-H 106	05-H 406
1 7/16"	36.5	1	05-D 107	05-D 407			05-H 107	05-H 407
1 1/2"	38.1	1	05-D 108	05-D 408			05-H 108	05-H 408
1 9/16"	39.7	1	05-D 109	05-D 409				
1 5/8"	41.3	1	05-D 110	05-D 410				
1 3/4"	44.5	1	05-D 112	05-D 412				
1 13/16"	46.0	1	05-D 113	05-D 413				
1 7/8"	47.6	1	05-D 114	05-D 414				
1 15/16"	49.2	1	05-D 115	05-D 415				
2"	50.8	1	05-D 200	05-D 500	05-D 716	05-D 916		
2 1/16"	52.4	1	05-D 201	05-D 501				
2 1/8"	54.0	1	05-D 202	05-D 502				
2 3/16"	55.6	1		05-D 503				



**Weldon Shank**



**Universal Shank**

Diameter		Std Pkg.	Weldon Shank		
Inches	mm		2" cutters Order No.	3" cutters Order No.	4" cutters Order No.
Use with pilot pin			<b>05-Z 034</b>	<b>05-Z 035</b>	<b>05-Z 036</b>
2 1/4"	57.2	1	05-D 504	05-D 720	05-D 920
2 5/16"	58.7	1	05-D 505		
2 3/8"	60.3	1	05-D 506		
2 7/16"	61.9	1	05-D 507		
2 1/2"	63.5	1	05-D 508	05-D 724	05-D 924
2 9/16"	65.1	1	05-D 509	05-D 725	05-D 925
2 5/4"	66.7	1	05-D 510		
2 3/4"	69.8	1	05-D 512	05-D 728	05-D 928
2 7/8"	73.0	1	05-D 514		
3"	76.2	1	05-D 532	05-D 732	05-D 932
3 1/4"	82.55	1	05-D 536	05-D 736	05-D 936
3 1/2"	88.9	1	05-D 540	05-D 740	
3 3/4"	95.2	1	05-D 544	05-D 744	
4"	100.16	1	05-D 548	05-D 748	

**PREMIUM  
PERFORMANCE**  
ON THE INDUSTRY'S  
TOUGHEST METALS

Packaged in reusable plastic packaging.

## PILOT PINS

Precisely position annular cutters over drilling spot and eject slug after drilling is completed. All Walter pilot pins are hardened and precision ground to provide the longest life in the industry.



Cutter family	Diameter	Max. drilling depth	Order No.	Std. Pkg.	Std. Ctn.
<b>For use with these cutters</b>					
SST Core Cut et ICECUT	1/2" – 2 3/8" dia.	1"	05-Z 001	1	10
SST Core Cut et ICECUT	1/2" – 2 3/8" dia.	2"	05-Z 002	1	10
SST Core Cut et ICECUT	19/16" – 1 1/16" dia.	3"	05-Z 018	1	10
SST Core Cut et ICECUT	1 1/16" – 2" dia.	4"	05-Z 031	1	10
2-piece, SST and ICECUT	1 1/16" – 2" dia.	3"	05-Z 032	1	10
2-piece, SST and ICECUT	1 1/16" – 2" dia.	4"	05-Z 033	1	10
<b>For use with these cutters</b>					
CARBIDE core cutters	1/2" – 1 1/16" dia.	1 1/2"	05-Z 019	1	10
CARBIDE core cutters	3/4" – 2 3/8" dia.	1 1/2"	05-Z 020	1	10
CARBIDE core cutters	1/2" – 1 1/16" dia.	2"	05-Z 021	1	10
CARBIDE core cutters	3/4" – 2 3/8" dia.	2"	05-Z 022	1	10
CARBIDE core cutters	2 7/16" – 4" dia.	2"	05-Z 034	1	10
SST Core Cut and ICECUT	19/16" – 1 1/16" dia.	3"	05-Z 018	1	10
CARBIDE core cutters	2 7/16" – 4" dia.	3"	05-Z 035	1	10
CARBIDE core cutters	2 7/16" – 4" dia.	4"	05-Z 036	1	10



### Morse taper shank adaptors with coolant inducer

For use of Walter annular cutters on drilling units with a Morse taper spindle. Coolant inducer feeds coolant through the pilot pin to increase cutter life

Morse taper	Order No.	Std. Pkg.	Std. Ctn.
No. 2	05-Z 012	1	10
No. 3	05-Z 013	1	10
No. 3 (with 1 1/4" Weldon)	05-Z 037	1	10



### Morse taper shank adaptors without coolant inducer

For use of Walter annular cutters on drilling units with a Morse taper spindle. Ideal for all drilling machines that are equipped with an external cooling source.

Morse taper	Order No.	Std. Pkg.	Std. Ctn.
No. 2	05-Z 010	1	10
No. 3	05-Z 011	1	10



### Fein and Nitto adaptors

For use of Walter annular cutters on all Fein and Nitto magnetic drills.

Drilling Unit	Order No.	Std. Pkg.	Std. Ctn.
Fein	05-Z 014	1	10
Nitto	05-Z 015	1	10



### Extension adaptors

Leverage an arbor adaptor with your Walter core cutters to drill deeper holes. These durable arbor adaptors allow you to drill up to 4" for a fraction of the price of a full size core cutter.

Extension Length	Description	Order No.	Std. Pkg.	Std. Ctn.
1"	Adaptor	05 -Z 023	1	10
	Pilot pin	05-Z 025	1	10
2"	Adaptor	05-Z 024	1	10
	Pilot pin	05-Z 026	1	10



# ICECUT 100™ AND ICECUT 200™

## Features

When you pair the best drilling machines with highly engineered annular cutters and superior cooling solutions, you know you have the best overall system for consistently drilling holes quickly and precisely with minimal interruption for changing out worn tooling.

## DRILLING MADE EASY AND SAFE



*“ACCUDRILL” system protects against overload and reduces the risk of cutter breakage. When you want to achieve the most productive drilling operation, you need to make sure you use the most power. This prevents the motor from overloading to reduce damage to the tool itself while also minimizing the risk of eventual damage to the cutter from overheating or movement.*



Video available at [The Walter Network](https://www.youtube.com/user/TheWalterNetwork)  
[www.youtube.com/user/TheWalterNetwork](https://www.youtube.com/user/TheWalterNetwork)

# ICECUT 250™ AND ICECUT 250P™ Features

Get all the power and versatility from the ICECUT magnetic drilling systems, now available in a more compact size for easy portability. Use the ICECUT 250™ for ultimate versatility when drilling or tapping larger holes. The ICECUT 250P™ is the unit for choice for working on curved surfaces or pipes thanks to a convenient permanent magnet.



**Variable Dialspeed**  
Electronic speed control for an optimized drilling operation ensuring a constant speed under load.

**Reversible speed**  
Enables tapping operations.

**Weighs only 35 pounds!**

**Taper Morse #2 with 1/4" Weldon shank**  
For easy mounting.

**Powerful electromagnet**



“ACCUDRILL” system protects against overload and reduces the risk of cutter breakage. When you want to achieve the most productive drilling operation, you need to make sure you use the most power. This prevents the motor from overloading to reduce damage to the tool itself while also minimizing the risk of eventual damage to the cutter from overheating or movement.



**Variable Dialspeed**  
Electronic speed control for an optimized drilling operation ensuring a constant speed under load.

**Reversible speed**  
Enables tapping operations.

**Two pivoting electromagnetic and standard magnets**  
For curved surface drilling capability.



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

# ICECUT 300™ AND ICECUT 400™

## Features

Now you can get all the benefits of using an ICECUT magnetic drilling machine while using annular cutters up to 4" wide and a depth of up to 4". To make the drilling operation even safer and easier, each machine features a swivel base for easy positioning of the tool along with our top-of-the-line safety features such as DIALSPEED™, POWERGUARD™ and DYNAMAX™.

**Drill more, bigger, faster and safer!**



# FEATURES

## ALL ICECUT™ MAGNETIC DRILLING UNITS



### 1 CENTERED CONTROL PANEL

Centered positioning of the electronics for easy control from any position. Whether it's a personal preference, or if the operation requires drilling from a specific side, the central control panel allows for efficient and easy operation.



### 2 MANDREL SUPPORT

Absorbs vibration for added stability and easy centering. The ball bearing support ensures the motor and chuck are perfectly aligned. It also provides smooth and precise cutting operations, and reduces chipping or breakage of the cutter.



### 3 FULL BODY INTEGRATED WIRING

For convenience and improved durability. No electrical wires will get in the way while drilling or moving your unit. Moreover, this prevents common failures due to mishandling (like carrying the unit by the wire, or the wire catching on an object).



### 4 STEEL SLIDING GUARD

Easily accessible, and extra safe. Slide guard upwards, position unit, slide guard down and start drilling safely while containing chips and lubricant to prevent them from spilling out onto the rest of the work surface.



### LIGHTWEIGHT

At 10 kg (22 lbs.) and 12.2 kg (27 lbs.) respectively, the ICECUT 100 and ICECUT 200 are the lightweight champions in their category. With a slim body, simplified carrying handle and powerful magnet, these units were designed with portability and ergonomics in mind.



### SWIVEL BASE

As a feature for the ICECUT 300 and ICECUT 400, it allows to swivel the magnetic drill by 60° on each side, and also slide by 3" for a perfect and easy alignment.



### 5 DIRECT ACCESS

Direct access to carbon brushes makes maintenance simple. The powerful motor will always operate at maximum efficiency, and when it is time to change out the carbon brushes, their easily accessible location makes maintenance very convenient!



### 6 ERGONOMIC HANDLE

The ergonomic handle with a smooth grip – sturdy and lightweight - makes moving the unit easy. Its design further reduces overall weight, and the smooth grip ensures easy portability.



### 7 QUICK RELEASE REVERSIBLE HANDLE

Quick release reversible handle – allows for positioning in confined or restricted spaces. The handle can be removed and reattached on whichever side the operator prefers, making this a very user friendly system.



### 8 MATERIAL & THICKNESS DETECTOR

Unit will not start when the magnetic holding power is insufficient to secure the unit to the workpiece and operate safely. Prevents accidental starts: unit will not start on any non-ferrous material like wood, plastic, or when held in the air.



### 9 MECHANICAL CLUTCH

The ICECUT 200 has a safety slip clutch, built into the gear drive, that will neutralize momentum and eliminate dangerous backlash for added safety. Prevents cutter breakage.



### EQUIPPED WITH SAFETY STRAP

For added security when hung upside down or for frame drilling operations.

# ICECUT 100™ AND ICECUT 200™

## ICECUT 100™

Compact and portable

Compact – extra lightweight – perfect when mobility is key.



## ICECUT 200™

The versatile unit

Powerful – 2-speed – yet only 27 lbs – ideal for a wide range of production or job site operations.



### TECHNICAL DATA



Order No.	39-D 100	39-D 200
Watts	850 W	1200 W
Speed	1 speed	2 speeds
No load RPM	600 RPM	Vitesse #1: 300 RPM / Vitesse #2: 600 RPM
Rated Current	8A	10A
Core cutter capacity (diameter)	1 3/8" (35 mm)	2" (52 mm)
Core cutter capacity (depth)	1 1/2" (38 mm)	2" (52 mm)
Twist drill capacity (diameter)	1/2" (stub length only)	1/2"
Tapping function	None	None
Weight	22 lbs (10 kg)	27 lbs (12.2 kg)
Swivel and sliding magnet	None	None
Max drill point pressure	1875 lbs (850 kg)	1875 lbs (850 kg)
Reversible handle	Tool free press-button	Tool free press-button
Powerguard electronic overload protection	Overload at 15A	Overload at 15A
Motor overload protection	None	Mechanical clutch
Short-Circuit protection	Integrated fuse	Integrated fuse
Accudrill LED torque display	Integrated Ampmeter	Integrated Ampmeter
Magnetic field sensor	Material and thickness detector	Material and thickness detector
Tool free guard	Metal, sliding up	Metal, sliding up
Wiring	Internal	Internal
Lubrication	On motor head	On motor head
Control board	Centered, s/s switches with LEDS	Centered, s/s switches with LEDS
Handle	Open on main housing	Open with anti-slip support
Arbor	WELDON shank with support	WELDON shank with support
Maintenance	Easy access to carbon brushes	Easy access to carbon brushes
Total Stroke	2.6"	2.9"

# ICECUT 300™ AND ICECUT 400™

## ICECUT 300™

For deeper, wider holes

With a swivel base and electronic speed control, allows you to drill safer and faster.



## ICECUT 400™

The most powerful and most versatile unit

With 4 mechanically-controlled speeds and a wider RPM range, this powerful tool can tackle any drilling operation with ease.



### TECHNICAL DATA

Order No.	39-D 300	39-D 400
Watts	1800 W	2000 W
Speed	2 speeds reversible	4 speeds reversible
Dynamax variable speed control	Yes	Yes
No load RPM	Speed #1: 70-180 RPM / Speed #2: 200-500 RPM	Speed #1: 45-129 RPM / Speed #2: 70-208 RPM Speed #3: 150-434 RPM / Speed #4: 240-700 RPM
Rated Current	18A	20A
Core cutter capacity (diameter)	3" (75 mm)	4" (100 mm)
Core cutter capacity (depth)	3" (75 mm)	4" (100 mm)
Twist drill capacity (diameter)	1 ¼" (31.75 mm)	1 ¼" (31.75 mm)
Tapping function	Yes (1 ⅛")	Yes (1 ⅛")
Weight	52 lbs (23.5 kg)	54.5 lbs (24.8 kg)
Swivel and sliding magnet	Swivel 120°, sliding 2"	Swivel 120°, sliding 2"
Max drill point pressure	4160 lbs (1890 kg)	4950 lbs (2240 kg)
Reversible handle	Tool free press-button	Tool free press-button
Powerguard motor overload protection	Overload at 22A	Overload at 24A
Powerguard electronic overload protection	Overload at 25A	Overload at 27A
Short-Circuit protection	Integrated fuse	Integrated fuse
Accudrill LED torque display	Integrated Ampmeter	Integrated Ampmeter
Magnetic field sensor	Material and thickness detector	Material and thickness detector
Tool free guard	Metal, sliding up	Metal, sliding up
Wiring	Internal	Internal
Lubrication	On motor head	On motor head
Control board	Centered, s/s switches with LEDs	Centered, s/s switches with LEDs
Handle	1 on main housing, 1 rear handle	1 on main housing, 1 rear handle
Arbor	WELDON taper morse #3	WELDON taper morse #3
Maintenance	Easy access to carbon brushes	Easy access to carbon brushes
Total Stroke	9.4"	10.2"

# ICECUT 250™ AND ICECUT 250P™

## ICECUT 250™

Lightweight, powerful with variable speed

The powerful, intuitive and lightweight ICECUT 250™ is a truly versatile machine, especially for its size.

## ICECUT 250P™

Drill faster and easier on pipe-related jobs

The double magnet ICECUT 250P™ sets up fast for pipe applications and is curved surface-ready.



### TECHNICAL DATA

Order No.	39-D 250	39-D 251
Watts	1550	1500
Speed	2-speeds + Reversible	2-speeds + Reversible
Dynamax variable speed control	YES	YES
No load RPM	100-500 RPM	100-500 RPM
Rated Current	15 amps	15 amps
Core cutter capacity (diameter)	2 3/8"	2 3/8"
Core cutter capacity (depth)	3" (w/ 2-piece pilot pin)	3" (w/ 2-piece pilot pin)
Twist drill capacity (diameter)	1/2"	1/2"
Tapping function	YES, up to 3/4" - 16	YES, up to 3/4" - 16
Weight	34.1 lbs	39.6 lbs
Swivel and sliding magnet	NO	NO
Max drill point pressure	3035 lbs (1376 kg)	3035 lbs (1376 kg)
Reversible handle	YES, TOOL-FREE press button	YES, TOOL-FREE press button
Powerguard motor overload protection	20A	20A
Powerguard electronic overload protection	27A	27A
Short-Circuit protection	YES, Integrated Fuse	YES, Integrated Fuse
Accudrill LED torque display	YES, Intergrated Ampmeter	YES, Intergrated Ampmeter
Magnetic field sensor	Material & thickness detector	NO (Permanent Magnet)
Tool free guard	Metal, sliding	Metal, sliding
Wiring	Internal	Internal
Lubrication	Internal thru feed, on motor head	Internal thru feed, on motor head
Control board	Centered, S/S switches with LEDs	Centered, S/S switches with LEDs
Handle	1 reversible on main housing, 1 pistol grip	1 reversible on main housing, 1 pistol grip
Arbor	Morse Taper 2 shank; 3/4" Weldon	Morse Taper 2 shank; 3/4" Weldon
Maintenance	Easy access to carbon brushes	Easy access to carbon brushes
Total Stroke	5.5"	5.5"

# ICECUT 100™, ICECUT 200™, ICECUT 250™, ICECUT 250P™, ICECUT 300™, ICECUT 400™ SYSTEMS



Includes a 1/2" chuck adaptor for drilling smaller holes



For larger holes, 1/2" and above, use the magnetic base with the standard Weldon shank



**COMES IN A FOAM PADDED CASE FOR SUPERIOR PROTECTION**

ICECUT 300 (39D300)	RPM			
	SPEED 1	SPEED 2	SPEED 3	SPEED 4
DIALSPEED™ RPM Setting	↓	↑		
1	70	200	x	x
2	92	260	x	x
3	114	320	x	x
4	136	380	x	x
5	158	440	x	x
6	180	500	x	x

ICECUT 400 (39D400)	RPM			
	SPEED 1	SPEED 2	SPEED 3	SPEED 4
DIALSPEED™ RPM Setting (Left/Right)	↓/↑	↓/↓	↑/↑	↑/↓
1	45	70	150	240
2	62	98	207	332
3	79	126	264	424
4	96	154	321	516
5	113	181	378	608
6	129	208	434	700

Model	Order No.	No load RPM	Motor	Amps	Twist drill capacity (diameter)	Annular cutter	Max. drilling depth	Magnet strength	Weight
ICECUT 100	39-D 100	600 RPM	120V .A.C. 8A	8A	1/2" (stub length only)	1 3/8"	1 1/2"	1875 lbs	22 lbs
ICECUT 200	39-D 200	Vitesse #1: 300 RPM Vitesse #2: 600 RPM	120V .A.C. 10A	10A	1/2"	2"	2"	1875 lbs	27 lbs
ICECUT 300	39-D 300	Speed #1: 70-180 RPM Speed #2: 200-500 RPM	120V .A.C. 18A	18A	1 1/4" (31.75 mm)	3"	4"	4160 lbs	52 lbs
ICECUT 400	39-D 400	Speed #1: 45-129 RPM Speed #2: 70-208 RPM Speed #3: 150-434 RPM Speed #4: 240-700 RPM	120V .A.C. 20A	20A	1 1/4" (31.75 mm)	4"	4"	4950 lbs	54.5 lbs
ICECUT 250	39-D 250	Speed #1: 100-265 RPM Speed #2: 200-500 RPM	120V .A.C. 15A	15A	1/2"	2 3/8"	3"	3035 lbs	34.1 lbs
ICECUT 250P	39-D 251	Speed #1: 100-265 RPM Speed #2: 200-500 RPM	120V .A.C. 15A	15A	1/2"	2 3/8"	3"	3035 lbs	39.6 lbs

**STANDARD EQUIPMENT FOR ICECUT 100 AND 200:** Carrying case 48-H 423 (ICECUT 100), 48-H 422 (ICECUT 200), lubrication system (48-H 310), 1/2" keyed chuck (39-D 006), Chuck adaptor (39-D 005), M6 T-handle hexagonal key (48-Z 004), Allen key (48-Z 003), safety strap (48-H 329), safety glasses (48-H 424), reversible press button (48-H 324), triple handle (48-H 323).

**STANDARD EQUIPMENT FOR ICECUT 300 AND 400:** Carrying case, chuck, arbor assembly, safety glasses, arbor shank, drift punch, safety belt, 3 mm hexagonal, spanner, stationary ring, spare carbon brushes, coolant bottle assembly.

## Straight Drill 716-B – 5/8"



End handle drill with a heavy-duty 120V motor and 2-speed gear box. Use low speed to drill large holes with extra torque and high speed to drill small holes. The reversing feature makes this drill also suitable for tapping applications.

Model	Order No.	Speed under load	Motor	Capacities - Steel		Twist drill	Hole saw	Weight
				Max. torque	Amps			
716-B	38-A 716	0-430/760 rev.	120V A.C.	30/17 Nm	9.2	5/8"	3"	9 lbs

**STANDARD EQUIPMENT:** 5/8" capacity keyed chuck 22-A 072, chuck key 22-A 202, side handle (model 716) 48-E 063 and 9 ft. cord.



## Decimals and metric equivalents of drill sizes

Drill size	Dec. equiv.	mm	Drill size	Dec. equiv.	mm	Drill size	Dec. equiv.	mm	Drill size	Dec. equiv.	mm
1/64"	.0156	0.40	—	.1142	2.90	5	.2055	5.22	41/64"	.6406	16.27
1/32"	.0313	0.80	32	.1160	2.95	4	.2090	5.31	21/32"	.6562	16.67
60	.0400	1.02	31	.1200	3.05	3	.2130	5.41	43/64"	.6719	17.07
59	.0410	1.04	1/8"	.1250	3.18	7/32"	.2188	5.56	11/16"	.6875	17.46
58	.0420	1.07	30	.1285	3.26	2	.2210	5.61	45/64"	.7031	17.86
57	.0430	1.09	—	.1299	3.30	1	.2280	5.79	23/32"	.7188	18.26
56	.0465	1.18	29	.1360	3.45	15/64"	.2344	5.95	47/64"	.7344	18.65
3/64"	.0469	1.19	28	.1405	3.57	1/4"	.2500	6.35	3/4"	.7500	19.05
55	.0520	1.32	9/64"	.1406	3.58	F	.2570	6.53	49/64"	.7656	19.45
54	.0550	1.40	27	.1440	3.66	—	.2638	6.70	25/32"	.7812	19.84
53	.0595	1.51	26	.1470	3.73	17/64"	.2656	6.75	13/16"	.8125	20.64
1/16"	.0625	1.59	25	.1495	3.80	9/32"	.2812	7.15	27/32"	.8438	21.43
52	.0635	1.61	24	.1520	3.86	19/64"	.2969	7.54	7/8"	.8750	22.23
51	.0670	1.70	23	.1540	3.91	5/16"	.3125	7.94	57/64"	.8906	22.62
50	.0700	1.78	5/32"	.1562	3.97	21/64"	.3281	8.33	29/32"	.9062	23.02
49	.0730	1.85	22	.1570	3.99	—	.3346	8.50	59/64"	.9219	23.42
48	.0760	1.93	21	.1590	4.04	11/32"	.3438	8.73	15/16"	.9375	23.81
5/64"	.0781	1.98	20	.1610	4.09	23/64"	.3594	9.13	61/64"	.9531	24.21
47	.0785	1.99	—	.1654	4.20	U	.3680	9.35	31/32"	.9688	24.61
—	.0787	2.00	19	.1660	4.22	3/8"	.3750	9.53	63/64"	.9844	25.00
46	.0810	2.06	18	.1695	4.31	25/64"	.3906	9.92	1"	1.0000	25.40
45	.0820	2.08	11/64"	.1719	4.37	—	.4016	10.20	1 1/32"	1.0312	26.19
44	.0860	2.18	17	.1730	4.39	13/32"	.4062	10.32	1 1/16"	1.0625	26.98
43	.0890	2.26	16	.1770	4.50	27/64"	.4219	10.72	1 9/32"	1.0938	27.78
42	.0935	2.37	15	.1800	4.57	7/16"	.4375	11.11	1 1/8"	1.1250	28.58
3/32"	.0938	2.38	14	.1820	4.62	29/64"	.4531	11.51	1 5/32"	1.1562	29.37
41	.0960	2.44	13	.1850	4.70	15/32"	.4688	11.91	1 3/16"	1.1875	30.16
40	.0980	2.49	3/16"	.1875	4.76	31/64"	.4844	12.30	1 7/32"	1.2188	30.96
—	.0984	2.50	12	.1890	4.80	1/2"	.5000	12.70	1 1/4"	1.2500	31.75
39	.0995	2.53	11	.1910	4.85	33/64"	.5156	13.10	1 9/32"	1.2812	32.54
38	.1015	2.58	10	.1935	4.91	17/32"	.5312	13.50	1 5/16"	1.3125	33.34
37	.1040	2.64	9	.1960	4.98	35/64"	.5469	13.90	1 11/32"	1.3438	34.13
36	.1065	2.71	—	.1969	5.00	9/16"	.5625	14.29	1 3/8"	1.3750	34.93
7/64"	.1094	2.78	8	.1990	5.05	37/64"	.5781	14.68	1 13/32"	1.4062	35.72
35	.1100	2.79	7	.2010	5.11	19/32"	.5938	15.08	1 7/16"	1.4375	36.51
34	.1110	2.82	13/64"	.2031	5.16	39/64"	.6094	15.48	1 15/32"	1.4688	37.31
33	.1130	2.87	6	.2040	5.18	5/8"	.6250	15.88	1 1/2"	1.5000	38.10

Maximum cutting speeds  
for SST power taps - RPM

Tap dia.	Mild steel	Stainless steel	Aluminium
#6	800	500	1,600
#8	670	400	1,500
#10	600	350	1,400
#12	550	300	1,200
1/4"	450	250	1,000
5/16"	370	200	850
3/8"	300	150	700
7/16"	260	120	600
1/2"	230	100	500

Recommended max. RPM for through holes. Reduce speed by one-third for blind holes. Make sure blind hole is deep enough to allow chips to accumulate at the bottom.

**Recommended cutting speed for HSS+Co  
Twist Drill Bits**

SFM*		100	70	40	200
Cutter Dia.		Mild Steel	Steel	Stainless Steel	Aluminium
Inch	mm	500N/mm <sup>2</sup>	900N/mm <sup>2</sup>		
1/16"	1.6	6112	4278	2445	12224
1/8"	3.2	3056	2139	1222	6112
3/16"	4.8	2037	1426	815	4075
1/4"	6.4	1528	1070	611	3056
5/16"	7.9	1222	856	489	2445
3/8"	9.5	1019	713	407	2037
7/16"	11.1	873	611	349	1746
1/2"	12.7	764	535	306	1528
9/16"	14.3	679	475	272	1358
5/8"	15.9	611	428	244	1222
11/16"	17.5	556	389	222	1111
3/4"	19.1	509	357	204	1019
13/16"	20.6	470	329	188	940
7/8"	22.2	437	306	175	873
15/16"	23.8	407	285	163	815
1"	25.4	382	267	153	764
1 1/16"	27	360	252	144	719
1 1/8"	28.6	340	238	136	679
1 3/16"	30.2	322	225	129	643
1 1/4"	31.8	306	214	122	611
1 5/16"	33.3	291	204	116	582
1 3/8"	34.9	278	194	111	556
1 7/16"	36.5	266	186	106	531
1 1/2"	38.1	255	178	102	509

\* SFM = Surface Feet per Minute  
Optimal RPM = SFM x 3.82/Diameter (in.)

**Recommended cutting speed for M2Al HSS  
Countersinks (82°)**

Cutter Dia.		Aluminium	Copper	Mild Steel	Stainless Steel	Non-metallic Steel
Inch	mm					
1/4"	6.4	1505	1404	752	602	1755
5/16"	7.9	1203	1123	602	481	1404
3/8"	9.5	1004	937	502	401	1171
7/16"	11.1	861	803	430	344	1004
1/2"	12.7	752	702	376	301	878
9/16"	14.3	669	624	335	268	781
5/8"	15.9	602	562	301	241	702
11/16"	17.5	547	511	274	219	638
3/4"	19.1	502	468	251	201	585
13/16"	20.6	463	432	231	185	540
7/8"	22.2	430	401	215	172	502
15/16"	23.8	401	375	201	161	468
1"	25.4	376	351	188	150	439
1 1/16"	27	354	331	177	142	413
1 1/8"	28.6	334	312	167	134	390
1 3/16"	30.2	317	296	158	127	370
1 1/4"	31.8	251	234	125	100	293
1 9/16"	39.7	241	225	120	96	281
1 5/8"	41.3	231	216	116	93	270
1 11/16"	42.9	223	208	111	89	260
1 3/4"	44.5	215	201	107	86	251
1 13/16"	46	208	194	104	83	242
1 7/8"	47.6	201	187	100	80	234
1 15/16"	49.2	194	181	97	78	227
2"	50.8	188	176	94	75	219

**Recommended cutting speed for MULTI-STEP<sup>MC</sup>  
M2Al HSS Drill Bits**

Diameter		Aluminium	Copper	Mild Steel	Stainless Steel	Non-metallic
mm	Inch					
12.7	1/2"	1003	878	502	376	1128
14.3	9/16"	892	781	446	335	1004
15.9	5/8"	802	702	401	301	902
17.5	11/16"	730	638	365	274	821
19.1	3/4"	669	585	334	251	752
20.6	13/16"	617	540	309	231	694
22.2	7/8"	573	502	287	215	645
23.8	15/16"	535	468	268	201	602
25.4	1"	502	439	251	188	564
27.0	1-1/16"	472	413	236	177	531
28.6	1-1/8"	446	390	223	167	502
30.2	1-3/16"	422	370	211	158	475
31.8	1-1/4"	401	351	201	150	451
33.3	1-5/16"	382	334	191	143	430
34.9	1-3/8"	365	319	182	137	410

\* Choose RPM based on LARGEST step diameter

### Recommended cutting speed for CARBIDE CORE CUT annular cutter

Diameter		Mild Steel	Steel	Steel	Steel	Steel	Stainless	Aluminium
mm	Inch	500N/mm <sup>2</sup>	750N/mm <sup>2</sup>	900N/mm <sup>2</sup>	1200N/mm	1400N/mm <sup>2</sup>	Steel	
11.1	7/16"	1147	1061	1003	860	717	573	2580
12.7	1/2"	1003	928	878	752	627	502	2257
14.3	9/16"	892	825	781	669	558	446	2007
15.9	5/8"	802	742	702	602	501	401	1805
17.5	11/16"	730	675	638	547	456	365	1642
19.1	3/4"	669	619	585	502	418	334	1505
20.6	13/16"	617	571	540	463	386	309	1389
22.2	7/8"	573	530	502	430	358	287	1290
23.8	15/16"	535	495	468	401	334	268	1204
25.4	1"	502	464	439	376	313	251	1128
27.0	1-1/16"	472	437	413	354	295	236	1062
28.6	1-1/8"	446	412	390	334	279	223	1003
30.2	1-9/16"	422	391	370	317	264	211	950
31.8	1-1/4"	401	371	351	301	251	201	903
33.3	1-5/16"	382	353	334	287	239	191	860
34.9	1-3/8"	365	337	319	274	228	182	821
36.5	1-7/16"	349	323	305	262	218	174	785
38.1	1-1/2"	334	309	293	251	209	167	752
39.7	1-9/16"	321	297	281	241	201	161	722
41.3	1-5/8"	309	285	270	231	193	154	694
42.9	1-11/16"	297	275	260	223	186	149	669
44.5	1-3/4"	287	265	251	215	179	143	645
46.0	1-13/16"	277	256	242	208	173	138	623
47.6	1-7/8"	267	247	234	201	167	134	602
49.2	1-15/16"	259	239	227	194	162	129	582
50.8	2"	251	232	219	188	157	125	564
52.4	2-1/16"	243	225	213	182	152	122	547
54.0	2-1/8"	236	218	207	177	148	118	531
55.6	2-3/16"	229	212	201	172	143	115	516
57.2	2-1/4"	223	206	195	167	139	111	502
58.7	2-5/16"	217	201	190	163	136	108	488
60.4	2-3/8"	211	195	185	158	132	106	475
61.9	2-7/16"	206	190	180	154	129	103	463
63.5	2-1/2"	201	186	176	150	125	100	451
65.1	2-9/16"	196	181	171	147	122	98	440
66.7	2-5/8"	191	177	167	143	119	96	430
68.3	2-11/16"	187	173	163	140	117	93	420
69.9	2-3/4"	182	169	160	137	114	91	410
71.4	2-13/16"	178	165	156	134	111	89	401
73.0	2-7/8"	174	161	153	131	109	87	393
74.6	2-15/16"	171	158	149	128	107	85	384
76.2	3"	167	155	146	125	104	84	376
77.8	3-1/16"	164	151	143	123	102	82	368
79.4	3-1/8"	160	148	140	120	100	80	361
81.0	3-3/16"	157	146	138	118	98	79	354
82.6	3-1/4"	154	143	135	116	96	77	347
84.1	3-5/16"	151	140	132	114	95	76	341
85.7	3-3/8"	149	137	130	111	93	74	334
87.3	3-7/16"	146	135	128	109	91	73	328
88.9	3-1/2"	143	133	125	107	90	72	322
90.5	3-9/16"	141	130	123	106	88	70	317
92.1	3-5/8"	138	128	121	104	86	69	311
93.7	3-11/16"	136	126	119	102	85	68	306
95.3	3-3/4"	134	124	117	100	84	67	301
96.8	3-13/16"	132	122	115	99	82	66	296
98.4	3-7/8"	129	120	113	97	81	65	291
100.0	3-15/16"	127	118	111	96	80	64	287
101.6	4"	125	116	110	94	78	63	282

### Recommended cutting speed for SST<sup>MC</sup> CORE CUT et ICECUT<sup>MC</sup> annular cutter

Diameter		Mild Steel	Steel	Steel	Steel	Steel	Stainless Steel	Aluminium
mm	Inch	500N/mm <sup>2</sup>	750N/mm <sup>2</sup>	900N/mm <sup>2</sup>	1200N/mm	1400N/mm <sup>2</sup>		
11.1	7/16"	717	573	373	287	201	344	1433
12.7	1/2"	627	502	326	251	176	301	1254
14.3	9/16"	558	446	290	223	156	268	1115
15.9	5/8"	501	401	261	201	140	241	1003
17.5	11/16"	456	365	237	182	128	219	912
19.1	3/4"	418	334	217	167	117	201	836
20.6	13/16"	386	309	201	154	108	185	771
22.2	7/8"	358	287	186	143	100	172	717
23.8	15/16"	334	268	174	134	94	161	669
25.4	1"	313	251	163	125	88	150	627
27.0	1-1/16"	295	236	153	118	83	142	590
28.6	1-1/8"	279	223	145	111	78	134	557
30.2	1-3/16"	264	211	137	106	74	127	528
31.8	1-1/4"	251	201	130	100	70	120	502
33.3	1-5/16"	239	191	124	96	67	115	478
34.9	1-3/8"	228	182	119	91	64	109	456
36.5	1-7/16"	218	174	113	87	61	105	436
38.1	1-1/2"	209	167	109	84	59	100	418
39.7	1-9/16"	201	161	104	80	56	96	401
41.3	1-5/8"	193	154	100	77	54	93	386
42.9	1-11/16"	186	149	97	74	52	89	372
44.5	1-3/4"	179	143	93	72	50	86	358
46.0	1-13/16"	173	138	90	69	48	83	346
47.6	1-7/8"	167	134	87	67	47	80	334
49.2	1-15/16"	162	129	84	65	45	78	324
50.8	2"	157	125	81	63	44	75	313
52.4	2-1/16"	152	122	79	61	43	73	304
54.0	2-1/8"	148	118	77	59	41	71	295
55.6	2-3/16"	143	115	75	57	40	69	287
57.2	2-1/4"	139	111	72	56	39	67	279
58.7	2-5/16"	136	108	70	54	38	65	271
60.4	2-3/8"	132	106	69	53	37	63	264

#### Taper pipe tap drill sizes NPT et NPTF

Tap size	Drill size	Tap size	Drill size
1/8" - 27	11/32"	1" - 11 1/2	1 5/32"
1/4" - 18	7/16"	1 1/4" - 11 1/2	1 1/2"
3/8" - 18	37/64"	1 1/2" - 11 1/2	1 47/64"
1/2" - 14	45/64"	2" - 11 1/2	2 7/32"
3/4" - 14	29/32"		

#### Recommended feed for annular cutter

Material	feed (mm/r)	Coolant (ml/min)
Steel 500N/mm <sup>2</sup>	0.08-0.13	60-80
Steel 750N/mm <sup>2</sup>	0.08-0.13	60-80
Steel 900N/mm <sup>2</sup>	0.05-0.1	80-100
Steel 1200N/mm <sup>2</sup>	0.05-0.1	80-100
Steel 1400N/mm <sup>2</sup>	0.05-0.1	80-100
Stainless Steel	0.05-0.1	150-200
Aluminium	0.1-0.15	80-100

#### Tap drill sizes - fractional

Tap size	Thread form	Drill size	Tap size	Thread form	Drill size	Tap size	Thread form	Drill size
2-56	NC	50	1/4"-28	NF	3	9/16"-18	NF	39/64"
3-48	NC	47	5/16"-18	NC	F	5/8"-11	NC	17/32"
4-40	NC	43	5/16"-24	NF	17/64"	5/8"-18	NF	37/64"
5-40	NC	38	3/8"-16	NC	5/16"	3/4"-10	NC	21/32"
6-32	NC	36	3/8"-24	NF	21/64"	3/4"-16	NF	11/16"
8-32	NC	29	7/16"-14	NC	U	7/8"-9	NC	49/64"
10-24	NC	25	7/16"-20	NF	25/64"	7/8"-14	NF	13/16"
10-32	NF	21	1/2"-13	NC	27/64"	1-8	NC	7/8"
12-24	NC	16	1/2"-20	NF	29/64"	1-12	NF	15/16"
1/4"-20	NC	7	9/16"-12	NC	31/64"	1-14	NS	15/16"

#### Tap drill sizes - metri

SIZE gauge/	PITCH	Drill wire	
	mm	mm	
M2.5	.45	2.0	46
M3	.5	2.5	40
M3.5	.6	2.9	33
M4	.7	3.3	30
M5	.8	4.2	19
M6	1.0	5.0	9
M8	1.25	6.7	17/64"
M10	1.5	8.5	21/64"
M12	1.75	10.2	13/32"



09

# POWER TOOLS

# POWER TOOLS

## Features



Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)

### Power, safety and improved productivity

Our line of angle grinders is designed to excel in all applications, whether it be in grinding, cutting, sanding, or cleaning. Each of our grinders is compact and packs a punch, providing you with the highest removal rate in the industry when paired with Walter abrasives. These industrial tools are designed with safety in mind and are built to last.

We also have classified our grinders to help you select the very best tool for your specific needs. Is improving safety the key decision factor? Perhaps maximum productivity is really what matters. Rest assured that whichever grinder you select, it will deliver the strongest, most efficient output available, reducing your overall costs.



	Anti-vibration side handle	Tool-free guard	Quick-R™ release	Safety clutch	Paddle switch (non-locking)	Soft Start™	Safety restart	DYNAMAX™ electronics	Powerguard™	Stabilizer	Variable Dialspeed™	Mechanical brake system
<b>ZIPCUTTER</b>	✗	✗		✗		✗	✗	✗	✗			
<b>MINI GRINDER</b>	✗	✗	✗	✗								
<b>MINI PS</b>	✗	✗	✗	✗	✗							
<b>MINI PLUS</b>	✗	✗	✗	✗		✗	✗	✗	✗	✗	✗	
<b>SUPER 5</b>	✗	✗	✗	✗								
<b>SUPER 5 PS</b>	✗	✗	✗	✗	✗	✗	✗	✗	✗			
<b>PRO 5</b>	✗	✗	✗	✗		✗	✗	✗	✗	✗		
<b>BIG 6</b>	✗	✗	✗	✗		✗	✗	✗	✗	✗		
<b>BIG 6 PS</b>	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗		✗
<b>IRONMAN</b>	✗	✗	✗	✗		✗	✗	✗		✗		
<b>IRONMAN PS</b>	✗	✗	✗	✗	✗	✗	✗	✗		✗		✗
<b>MAXI</b>	✗	✗			✗**							
<b>QUICK-STEP FINISHER</b>	✗	✗	✗	✗		✗	✗	✗	✗		✗	
<b>QUICK-STEP BIG-BUFF III</b>						✗	✗	✗	✗		✗	
<b>ULTI-MATE</b>	✗	✗		✗		✗	✗	✗	✗		✗	
<b>RAIL-MATE</b>						✗	✗	✗	✗		✗	
<b>QUICK-STEP LINE-MATE III</b>						✗	✗	✗	✗		✗	
<b>DIALSPEED 6141</b>						✗	✗	✗	✗		✗	
<b>DIALSPEED 6145</b>						✗	✗	✗	✗		✗	
<b>STRAIGHT-MATE</b>						✗		✗			✗	

\*Non-locking paddle switch on models 6352 and 6362 only. \*\*Non-locking switch available upon request on MAXI™ models.

## Total performance

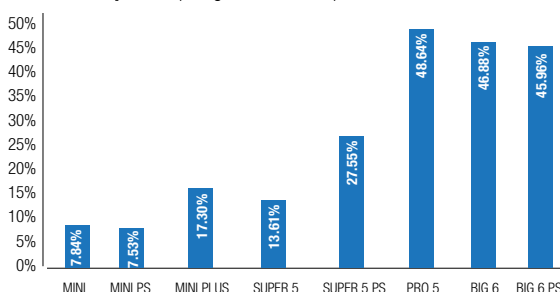
When you combine the most powerful grinders with premium Walter abrasives, you get the best overall performance in the industry. Whether you need to cut, grind or finish surfaces, our line of angle grinders gets the job done faster and easier while extending the life of your abrasives. Walter's next generation grinders are setting new standards in the metalworking industry.

### New angle grinders vs. the previous generation (both using HP XX grinding wheels)

Model	Total removal (g)			Removal rate (g/min.)		
	New	Old	%	New	Old	%
MINI	1020	1111	8.92%	20.40	22	7.84%
MINI PS	1023	1111	8.60%	20.46	22	7.53%
MINI PLUS	1023	1230	20.23%	20.46	24	17.30%
SUPER 5	1176	1200	2.04%	29.40	33.4	13.61%
SUPER 5 PS	1176	2100	78.57%	29.40	37.5	27.55%
PRO 5	1176	2300	95.58%	29.40	43.7	48.64%
BIG 6	2200	2765	25.68%	32.00	47	46.88%
BIG 6 PS	2200	2765	25.68%	32.20	47	45.96%

● Double the life of your HP XX wheels by combining them with our PRO 5 grinder!

### Productivity gain with our grinders compared to closest competitor (using HP XX wheels)



## OUR GRINDERS

### GENERAL FEATURES

**Variable DialSpeed™** Electronic speed control at the back of the machine to adjust the speed for optimum performance. DYNAMAX™ electronics regulate the power supply to the motor to ensure constant speed under full load for optimal control.

**Soft Start™** Tools equipped with Soft Start™ will ensure a progressive increase of RPM for a safer use, as opposed to a high start-up "kick".

**Brake system** Fastest mechanical brake available on the market, that will stop the tool within two seconds, for optimal user safety.

**Powerguard™** A temperature sensor is built into the electric motor to help protect the tool from burn-out.

**Quick-R™ release** Lets you change grinding and cut-off wheels in seconds, without any keys or wrenches.

**Anti-vibration side handle** High-tech, vibration absorbing side handle offers a safer and more comfortable operation without fatigue.

**Paddle switch (non-locking)** For added safety, the double action non-locking paddle switch will stop the grinder if you are not holding it.

**Safety restart** Following a power interruption the power tool will not restart on its own when power is restored. If the switch is left in the ON position, the LED will start blinking when the power is restored. To restart the grinder, it must be reset by switching it OFF and then ON. If the cord breaks, the LED link will flash.

**DYNAMAX™ electronics** Ensure that spindle RPM speeds remain constant even under load for maximum productivity.

**Tool-free guard** New, quick-release guard lever lets you adjust or remove the wheel guard without any tools, in a matter of seconds.

**Stabilizer** Significantly reduces vibration during operation, making the tools more ergonomic and extending the life of both the tool and abrasives by up to 200%.

**Safety clutch** Built into the gear drive, the safety slip clutch neutralizes momentum and eliminates dangerous backlash.

**2 SEC** Brake system

### More protection

All Walter 4 1/2", 5" and 6" angle grinders are covered by our 24-month LONG-RUN warranty and exclusive SERVICEGUARD™ protection plan.





# ZIPCUTTER

A powerful cordless cutting tool

The Zipcutter is a powerful cordless cutting tool that delivers the most cuts and longest battery life when paired with Walter cut-off wheels. It comes with an 18V/ 5.2 Ah battery pack and a Ventilated Charging System, allowing you to charge faster and reduce downtime. This cordless cutter features the DYNAMAX electronic RPM control, which protects the unit from overloading and overheating. It also contains a 270° rotating battery pack so you can adjust the battery for greater comfort while working and offers easy access to the internal carbon brushes.

This cordless cutter features electronic single cell protection, which prevents the cutter from short-circuiting and emptying the battery prematurely. Its special design prevents misalignment and vibration, allowing for more precise cutting and greater operator safety. The tool is available in two versions, a versatile 4.5"/5" version and a 6" version for greater cutting depth.



## Can accommodate up to 6" wheels

One of the most powerful cordless tools on the market, and one of the few that can accommodate a 6" wheel.

**No.: 34-B 160**

### ZIPCUTTER SYSTEM

**Includes:**

- 1 ZIPCUTTER (34-A 150 for 045 kit and 050 kit / 34-A 160 for 060 kit) with standard equipment plus carrying case (34-B 013)
- 2 battery packs 5.2Ah (34-B 001)
- 1 ventilated charging station (34-B 002),
- 1 closed guard adaptor (34-B 011 for 045 and 050 /34-B 012 for 060)

Model	Order No.	Disc dia.	RPM	Spindle thread	Voltage	Weight with battery
050	34-A 150	4.5" / 5"	8,000	5/8"-11	18 V	2.4 kg
060	34-A 160	6"	8,000	5/8"-11	18 V	2.4 kg
045 KIT	34-A 949	4.5"	8,000	5/8"-11	18 V	
050 KIT	34-A 950	5"	8,000	5/8"-11	18 V	
060 KIT	34-A 951	6"	8,000	5/8"-11	18 V	

**STANDARD EQUIPMENT 050/060:** 1 wheel guard (050 = 48-M 519 / 060 = 48-M 520), 1 Anti-vibration handle (32-B 027), 1 flange (30-B 057), nut (30-B 037).

**OPTIONAL ACCESSORY:** 4 1/2" guard (48-M 518)

#### Battery pack 5.2Ah

**Order No.:** 34-B 001

One of the most powerful batteries available on the market, and the ideal battery suited to handle aggressive cutting wheels for an extended period of time. More amps for added endurance under load. The only battery that fits with our **Ventilated charging station**.



#### Ventilated charging station 110V-18V

**Order No.:**34-B 002

Integrated fan to cool down the battery and extend battery life. Allows for a faster battery recharge. LED lights incorporated to indicate shortage, overheating or full charge level.

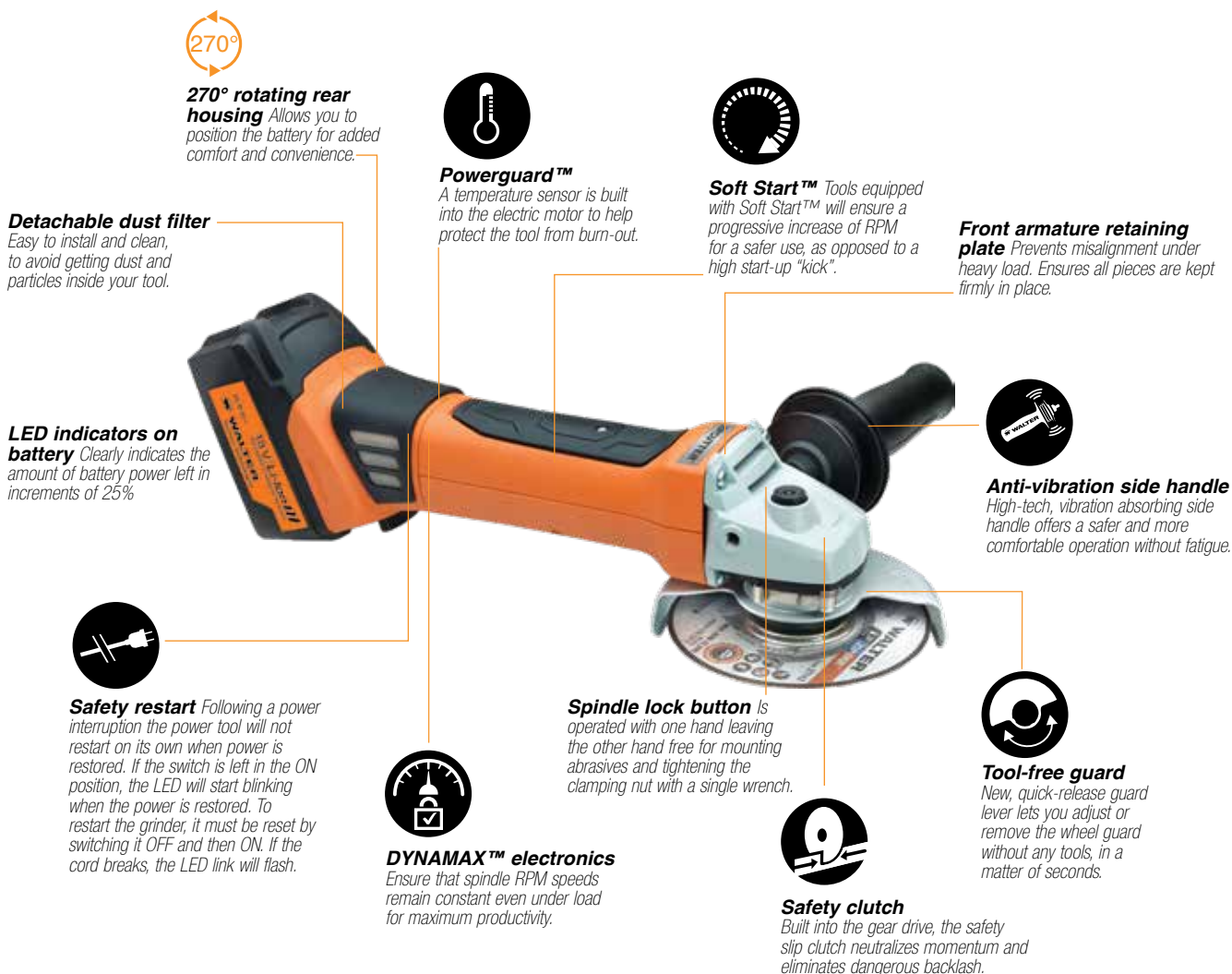


Video available at The Walter Network  
[www.youtube.com/user/TheWalterNetwork](http://www.youtube.com/user/TheWalterNetwork)



## LIGHTWEIGHT CORDLESS GRINDER

### FEATURES



#### Accessories



**Closed guard adaptor**  
Order No. 4 ½": 34-B 010  
Order No. 5": 34-B 011  
Order No. 6": 34-B 012

Lightweight and portable. Provides optimal protection while cutting. Easily installed onto the cutting guard. Does not get in the way when changing your cutting wheel.



**Carrying case**  
Order No.: 34-B 013  
Conveniently fits your cordless cutter and all standard equipment for easy portability.

# 4.5" ANGLE GRINDERS



WARRANTY  
LONG-RUN SERVICEGUARD™ Protection Plan  
24 MONTHS

## MINI GRINDER™

Order no. 30-A 161

Light, compact and durable

The Mini™ 4.5" grinder's state-of-the-art features include the new Walter anti-vibration handle that makes the grinder more comfortable to use and Walter's QUICK-R™ instant release function for disc change outs that take just seconds. The Mini™ has an additional 100 watts of power and features a rear vent to keep the armature cooler, allowing you to work longer while extending the life of the tool.



WARRANTY  
LONG-RUN SERVICEGUARD™ Protection Plan  
24 MONTHS

## MINI PS™

Order no. 30-A 163

Additional job site safety

The Mini PS™ is the ideal choice when a paddle switch is needed on a 4 1/2" grinder. It can be plugged into a generator, making it the perfect fit for construction sites. The double action non-locking paddle switch will stop when you release it, making it the safest choice without sacrificing productivity.



WARRANTY  
LONG-RUN SERVICEGUARD™ Protection Plan  
24 MONTHS

## MINI PLUS™

Order no. 30-A 255

Powerful variable speed grinder

The MINI PLUS™ grinder provides premium performance and the most advanced features in the industry. Put it to work taking down welds, cutting tubing, light sanding, or removing rust and paint. With an autobalancer, our DYNAMAX™ speed control and POWERGUARD™ protection from overheating, the MINI PLUS™ delivers superior performance no matter the job. Remove more material faster while also significantly extending the life of your abrasives with a premium power tool.

Description	MINI™	MINI PS™	MINI PLUS™
Model name	6161K	6163B	6255J
Order No.	30-A 161	30-A 163	30-A 255
Anti vibration side handle	√	√	√
Safety clutch	√	√	√
QUICK-R™ instant release function	√	√	√
Tool-free rotating guard	√	√	√
Non-locking paddle switch		√	√
Lock-on switch		√	√
AC/DC compatibility	√	√	AC compatibility only
Stabilizer™			√
Soft-Start™			√
Restart protection			√
DYNAMAX™ RPM monitoring			√
POWERGUARD™ overheat protection			√
LED indicator			√
DIALSPEED™ variable RPM selector			√
Spindle	5/8" - 11	5/8" - 11	5/8" - 11
RPM no-load	10,500	10,500	2,800 to 10,500
Amps	8.5 A	8.5 A	9.5 A
Power	900 W	900 W	1000 W
Tool weight	4.6 lbs	4.6 lbs	4.8 lbs
Maximum wheel diameter	4 1/2"	4 1/2"	5"
<b>Standard Equipment</b>			
Wheel guard type 27	48-M 441	48-M 441	48-M 444
Side handle	30-B 075		30-B 075
Inner flange	30-B 057		30-B 057
QUICK-R™ front nut	30-B 020		30-B 020
<b>Optional Equipment</b>			
Close guard adaptor	34-B 010	34-B 010	34-B 011
Manual clamping nut	30-B 037	30-B 037	30-B 037
Nut holder	30-B 023	30-B 023	30-B 023
Pin key wrench	48-Z 148	48-Z 148	48-Z 148
SPIN-ON™ kit	30-B 024	30-B 024	30-B 024

## 5" ANGLE GRINDERS



### SUPER 5™

**Order no.** 30-A 150

The perfect intermediate size grinder

Now boasting a 10.5A motor, this grinder is the right choice for those jobs that require extra power from a lightweight tool. This industrial grade power tool is built to last, and when paired with 5" Walter abrasives it provides one of the safest and most productive systems to tackle a wide range of jobs.

### SUPER 5 PS™

**Order no.** 30-A 153

Safety and performance

The Super 5 PS™ allows you to grind, cut, sand, finish and clean at a much faster and smoother rate. Furthermore, rest assured that when you hold the Super 5 PS™, you are holding the safest grinder thanks to Soft Start™, Powerguard™, a safety clutch and a safety restart that prevents the tool from starting on its own after a power interruption.

### PRO 5™

**Order no.** 30-A 157

The best ratio of weight and performance

The Pro 5™ has no peers among 5" angle grinders when it comes to removal rate or cutting speed. Equipped with the Walter Stabilizer™, DYNAMAX™, Powerguard™, and Soft Start™ technologies, the Pro 5™ is in a class of its own and offers the most comprehensive safety and productivity enhancing features.

Description	SUPER 5™	SUPER 5 PS™	PRO 5™
Model name	6150i	6153B	6157A
Order No.	30-A 150	30-A 153	30-A 157
Anti vibration side handle	√	√	√
Safety clutch	√	√	√
QUICK-R™ instant release function	√	√	√
Tool-free rotating guard	√	√	√
Non-locking paddle switch		√	
Lock-on switch	√		√
AC/DC compatibility	√		AC compatibility only
Stabilizer™			√
Soft-Start™		√	√
Restart protection		√	√
DYNAMAX™ RPM monitoring		√	√
POWERGUARD™ overheat protection		√	√
LED indicator		√	√
Spindle	5/8" - 11	5/8" - 11	5/8" - 11
RPM no-load	11,000	11,000	11,000
Amps	10.5 A	13.5 A	13.5 A
Power	1200 W	1550 W	1550 W
Tool weight	5.3 lbs	5.5 lbs	5.7 lbs
Maximum wheel diameter	5"	5"	5"
<b>Standard Equipment</b>			
Wheel guard type 27	48-M 444	48-M 444	48-M 444
Side handle	30-B 075	30-B 075	30-B 075
Inner flange	30-B 057	30-B 057	30-B 057
QUICK-R™ front nut	30-B 020	30-B 020	30-B 020
<b>Optional Equipment</b>			
Close guard adaptor	34-B 011	34-B 011	34-B 011
Manual clamping nut	30-B 037	30-B 037	30-B 037
Nut holder	30-B 023	30-B 023	30-B 023
Pin key wrench	48-Z 148	48-Z 148	48-Z 148
SPIN-ON™ kit	30-B 024	30-B 024	30-B 024

# 6" ANGLE GRINDERS



WARRANTY  
LONG-RUN  
SERVICEGUARD™  
Protection Plan **24**  
MONTHS

## BIG 6™

**Order no.** 30-A 260

The best ratio of weight and performance

The Big 6™ is the most powerful grinder in its class. The only grinder that can deliver 1,700 watts with a 6" wheel capacity, the Big 6™ is built for heavy duty applications. It offers a secure grip thanks to the new Walter Stabilizer™ system, which reduces vibration and increases the life of each wheel by at least 30%. The Big 6™ has extensive safety features, making it ideal for production environments that require the performance of a 7" or even 9" grinder without the weight that contributes to operator fatigue.



WARRANTY  
LONG-RUN  
SERVICEGUARD™  
Protection Plan **24**  
MONTHS

## BIG 6 PS™

**Order no.** 30-A 263

Heavy-duty performance with additional safety features

The Big 6 PS™ comes with a paddle switch and a mechanical brake to stop the grinder within 2 seconds of relieving the trigger. The Big 6 PS™ is the safest heavy duty grinder on the market and also comes with a Walter Stabilizer™ to reduce vibration, improving workplace ergonomics while improving the life and removal rate of your abrasives.

Description	BIG 6™	BIG 6 PS™
Model name	6260J	6263B
Order No.	30-A 260	30-A 263
Anti vibration side handle	✓	✓
Safety clutch	✓	✓
QUICK-R™ instant release function	✓	✓
Tool-free rotating guard	✓	✓
Lock-on switch	✓	✓
Non-locking paddle switch	✓	✓
Mechanical brake system		✓
AC/DC compatibility	AC compatibility only	AC compatibility only
Stabilizer™	✓	✓
Soft-Start™	✓	✓
Restart protection	✓	✓
DYNAMAX™ RPM monitoring	✓	✓
POWERGUARD™ overheat protection	✓	✓
LED indicator	✓	✓
Spindle	5/8" - 11	5/8" - 11
RPM no-load	9,600	9,600
Amps	14.5 A	14.5 A
Power	1700 W	1700 W
Tool weight	5.9 lbs	6.2 lbs
Maximum wheel diameter	6"	6"
<b>Standard Equipment</b>		
Wheel guard type 27	48-M 446	48-M 446
Side handle	30-B 075	30-B 075
Inner flange	30-B 057	30-B 057
QUICK-R™ front nut	30-B 020	30-B 020
<b>Optional Equipment</b>		
Close guard adaptor	34-B 011	34-B 011
Manual clamping nut	30-B 037	30-B 037
Nut holder	30-B 023	30-B 023
Pin key wrench	48-Z 148	48-Z 148
SPIN-ON™ kit	30-B 024	30-B 024

# IRONMAN™ GRINDERS

## WARRANTY

**LONG-RUN**  
SERVICEGUARD™  
Protection Plan

**24**  
MONTHS



## IRONMAN™

**Order no.** 30-A 560

Top performance in strenuous and prolonged applications

With its ergonomic rat-tail design, the Ironman™ delivers 1,750 watts with 6" wheel capacity. It comes with a Walter Stabilizer™ to reduce vibration and extend the life and removal rate of your abrasives by up to 30%. Ideal for prolonged applications, when combined with Walter abrasives, Ironman™ is among the industry's most productive systems available.

## IRONMAN™ PS

**Order no.** 30-A 563

Exceptional performance with added safety features

If it's high performance and added safety you're after, the Ironman™ PS comes with a paddle switch and a mechanical brake to stop grinding wheels from turning within 2 seconds of relieving the trigger, and cutting wheels within 1.5 seconds. It delivers 1,750 watts of power and comes with a Walter Stabilizer™ to reduce vibration, improve ergonomics and extend the life and removal rate of your abrasives.

Description	IRONMAN™	IRONMAN™ PS
Model name	6560A	6563A
Order No.	30-A 560	30-A 563
Anti vibration side handle	√	√
Safety clutch	√	√
QUICK-R™ instant release function	√	√
Tool-free rotating guard	√	√
Lock-on switch		√
Mechanical brake system		2-second brake system
AC/DC compatibility	AC compatibility only	AC compatibility only
Stabilizer™	√	√
Soft-Start™	√	√
Restart protection	√	√
DYNAMAX™ RPM monitoring	√	√
POWERGUARD™ overheat protection	√	√
LED indicator	√	√
Spindle	5/8" - 11	5/8" - 11
RPM no-load	9,600	9,600
Amps	14.5 A	14.5 A
Power	1750 W	1750 W
Tool weight	6.2 lbs	6.2 lbs
Maximum wheel diameter	6"	6"
<b>Standard Equipment</b>		
Wheel guard type 27	48-M 444	48-M 446
Side handle	30-B 075	30-B 075
QUICK-R™ front nut	30-B 020	30-B 020
<b>Optional Equipment</b>		
Close guard adaptor	34-B 011	34-B 012
Manual clamping nut	30-B 037	30-B 037
Nut holder	30-B 023	30-B 023
Pin key wrench	48-Z 148	48-Z 148
SPIN-ON™ kit	30-B 024	30-B 024

# MAXI™ GRINDERS



**WARRANTY**  
**LONG-RUN** **24**  
 SERVICEGUARD™  
 Protection Plan MONTHS

## MAXI™ 7"

Order no. 30-A 170

## MAXI™ 9"

Order no. 30-A 190

Pound for pound, they deliver more power and better performance

These full-size industrial angle grinders now deliver even more power and speed to get heavy-duty grinding and finishing jobs done faster and with less effort. Well established and recognized quality motors generate less heat and deliver a higher removal rate under load. These grinders will stay on the job longer in the most demanding applications such as bevelling, grinding and taking down heavy welds.

Description	MAXI™ 7"	MAXI™ 9"
Model name	6170i	6190i
Order No.	30-A 170	30-A 190
Anti vibration side handle	√	√
Lock-on switch	√	√
AC/DC compatibility	√	√
Swivel rear handle	√	√
Spindle	5/8" - 11	5/8" - 11
RPM no-load	8,500	6,800
Amps	15 A	15 A
Power	2400 W	2400 W
Tool weight	12.8 lbs	12.8 lbs
Maximum wheel diameter	7"	9"
<b>Standard Equipment</b>		
Wheel guard	48-M 472	48-M 517
Side handle	48-M 401	48-M 401
Inner flange	30-B 057	30-B 057
Clamping nut	30-B 037	30-B 037
Pin key wrench	48-M 483	48-M 483
<b>Optional Equipment</b>		
Cut-off guard	34-B 065	34-B 066

\* Non-locking switch available upon request for MAXI™ grinder models.

# Straight-Mate™

**Order no.** 30-A 606 (30A607 for the kit)

The ultimate straight grinder and lightweight polishing and buffing tool

The Straight-Mate™ packs a punch as the ultimate lightweight straight grinder with Walter's Dynamax™ variable speed control and RPM range of 1,600 to 4,800. A versatile grinding, polishing and buffing tool.



## Features

- ▷ *Dynamax™ variable speed control*
- ▷ *RPM range: 1,600-4,800*
- ▷ *Lightweight: 7 lbs (3.2 kg)*
- ▷ *Max wheel diameter: 6" (150mm).*
- ▷ *Compatible with cotton wheels and polishing pastes*
- ▷ *Compatible with wire brush and Line-Mate™ drums*
- ▷ *Compatible with non-woven abrasives, Plugs and cones*
- ▷ *Compatible with snagging wheels*

## STRAIGHT-MATE KIT

**Order no.** 30-A 607

### Includes:

- 1 FX Stainless (07-X 661)
- 1 Blendex U (07-U 613)
- 1 2-in-1 Turbo Drum (07-K 441)
- 1 2-in-1 Drum (07-K 342)
- 1 Blendex Drum (07-M 323)
- 1 Cotton Drum (07-T 425)
- 1 Polishing Paste (07-T 907)
- 1 Wire Drums (13-M 454)
- 1 Straight-Mate (30-A 606)

Description	STRAIGHT-MATE™	220V
Model Name	6606A	6626A
Order No.	30-A 606 (30A607 for kit)	30-A 626
Lock-on switch	yes	yes
AC compatibility only	yes	yes
Soft-Start <sup>MC</sup>	yes	yes
Restart protection	no	no
DYNAMAX™ RPM monitoring	yes	yes
LED indicator	no	no
DIALSPEED™ variable RPM selector	yes	yes
Spindle	5/8" - 11	M14
RPM no-load	1600-4800	1600-4800
Amperage	11.8	6.5
Power	1300W	1500W
Tool weight	6.6 lbs	6.6 lbs
Maximum wheel diameter	6" (150mm)	6" (150mm)

# SANDER-POLISHER

## QUICK-STEP FINISHER™

**Order no.** 30-A 275

The perfect tool for surface finishing and polishing

This variable speed tool was specifically designed to get the most out of the QUICK-STEP™ surface finishing system. Whether you sand, buff or polish, the QUICK-STEP Finisher™ will provide you with a uniform, top quality finish and reduced finishing times. With all the latest electronic safety controls, the QUICK-STEP Finisher™ is the smart choice for professionals looking to reduce cycle time and finishing costs.



## QUICK-STEP Finisher™ system

**Order no.** 30-A 277

**Includes:**

- 1 Quick-Step Finisher (30-A 275) with standard equipment plus carrying case
- 1 Quick-Step backing pad MG (07-Q 149)
- 1 Quick-Step FX (07-X 845)
- 1 Quick-Step FLEX grit 120 (07-Q 512)
- 1 Quick-Step FLEX grit 60 (07-Q 506)
- 1 Quick-Step interface pad (07-Q 045)
- 2 Quick-Step XX grit 120 (15-V 412)
- 2 Quick-Step XX grit 240 (15-V 424)
- 2 Quick-Step Blendex med (07-R 453)
- 1 Quick-Step Blendex fine (07-R 454)



Description	QUICK-STEP FINISHER™
Model name	6275B
Order No.	30-A 275
Anti vibration side handle	✓
Safety clutch	✓
QUICK-R™ instant release function	✓
Lock-on switch	✓
AC/DC compatibility	AC compatibility only
Soft-Start™	✓
Restart protection	✓
DYNAMAX™ RPM monitoring	✓
POWERGUARD™ overheat protection	✓
LED indicator	✓
DIALSPEED™ variable RPM selector	✓
Spindle	5/8" - 11
RPM no-load	2,000 to 7,600
Amps	12.2 A
Power	1550 W
Tool weight	5.5 lbs
Maximum wheel diameter	6"
<b>Standard Equipment</b>	
Wheel guard type 27	48-M 446
Side handle	30-B 075
Inner flange	30-B 057
QUICK-R™ front nut	30-B 020
<b>Optional Equipment</b>	
Manual clamping nut	30-B 037
Nut holder	30-B 023
Pin key wrench	48-Z 148



# SANDER-POLISHER

## QUICK-STEP BIG-BUFF III™

**Order no.** 30-A 265

The most comfortable and versatile tool for metal polishing

The Quick-Step Big-Buff III™ is a variable speed tool designed to provide operators with the power and versatility to tackle any job that requires sanding, buffing or polishing. The ergonomic design reduces operator fatigue and ensures smooth operation during the most demanding jobs.



### QUICK-STEP BIG-BUFF III™ SYSTEM – 4 1/2"

**Order no.** 30-A 267

**Includes:**

- 1 Quick-Step backing pad MG (07-Q 149)
- 1 Quick-Step FX (07-X 845)
- 1 Quick-Step FLEX grit 120 (07-Q 512)
- 1 Quick-Step FLEX grit 60 (07-Q 506),
- 1 Quick-Step interface pad (07-Q 045)
- 2 Quick-Step XX grit 120 (15-V 412)
- 2 Quick-Step XX grit 240 (15-V 424)
- 2 Quick-Step Blendex med (07-R 453)
- 2 Quick-Step Blendex fine (07-R 454)
- 1 Quick-Step Felt (07-T 450)
- 1 Quick-Step high polish (07-T 454)
- 1 instant polishing paste (07-T 907)
- 1 Quick-Step Big-Buff and carrying case (30-A 265)



Description	QUICK-STEP BIG-BUFF III™
Model name	6265C
Order No.	30-A 265
Lock-on switch	√
AC/DC compatibility	AC compatibility only
Soft-Start™	√
Restart protection	√
DYNAMAX™ RPM monitoring	√
POWERGUARD™ overheat protection	√
DIALSPEED™ variable RPM selector	√
Spindle	5/8" - 11
RPM no-load	2,000 to 7,300
Amps	12.4 A
Power	1500 W
Weight	6 lbs
Maximum wheel diameter	6"
<b>Standard Equipment</b>	
Side handle	48-A 054
Inner flange	30-B 057
Manual clamping nut	30-B 037
Pin key wrench	48-Z 148

# FILLET WELD GRINDER

## ULTI-MATE™

Variable speed fillet weld grinder

Ulti-Mate™ is a variable speed fillet weld grinder and finishing tool designed to work in tight corners that other tools have a difficult time reaching. By combining this tool and our range of quality abrasives, you can go from a rough weld all the way to a mirror finish in just minutes.



### ULTI-MATE™ FILLET WELD GRINDER SYSTEM

Order no. 30-A 287

**Includes:**

- 1 Ulti-Mate grinder
- 1 Enduro-Flex 2-in-1 Turbo (15-I 451)
- 1 Enduro-Flex 2-in-1 (15-I 453)
- 1 Blendex U Turbo, 1/4" width (07-U 625)
- 1 Blendex U Turbo, 1/8" width (07-U 615)
- 1 Blendex U 2SF, 1/4" width (07-U 621)
- 1 FX Stainless wheel, 1/4" width (07-X 662)



Description	ULTI-MATE™ WELD GRINDER SYSTEM
Model name	6285A
Order No.	30-A 287
Anti vibration side handle	✓
Safety clutch	✓
Lock-on switch	✓
AC/DC compatibility	AC compatibility only
Soft-Start™	✓
Restart protection	✓
DYNAMAX™ RPM monitoring	✓
POWERGUARD™ overheat protection	✓
LED indicator	✓
DIALSPEED™ variable RPM selector	✓
Spindle	5/8" - 11
RPM no-load	2,500 to 8,750
Amps	12.2 A
Power	1550 W
Weight	7.7 lbs
Maximum wheel diameter	6"

# TUBE / PIPE SANDER

## RAIL-MATE™

Remove welds and finish pipes, tubes and railings faster

This power tool allows you to use our premium abrasive products to finish pipes, tubes and railings. This powerful finishing tool features Soft-Start technology to avoid kickback when starting the tool, Dialspeed™ variable speed control and Dynamax™ RPM Monitoring to maintain consistent speed under load.



### RAIL-MATE™ SANDER SYSTEM

Order no. 30-A 289

#### Includes:

- 1 Rail-Mate sander
- 6 Coolcut XX belts (2 of each: grit 60, 14-X 156; grit 80, 14-X 158; grit 120: 14-X 162)
- 3 Blendex belts (1 of each grade: Coarse, 07-D 152; Medium 07-D 153; Fine 07-D 154)



Description	RAIL-MATE™ SANDER SYSTEM
Model name	6288A
Order No.	30-A 289
Lock-on switch	√
AC/DC compatibility	AC compatibility only
Soft-Start™	√
Restart protection	√
DYNAMAX™ RPM monitoring	√
POWERGUARD™ overheat protection	√
LED indicator	√
DIALSPEED™ variable RPM selector	√
Spindle	5/8" - 11
RPM no-load	1,600 to 3,200
Surface speed	3-12 m/sec.
MAX belt size L x W	760 mm x 40 mm
MAX pipe diameter	7 in. (180 mm)
MAX polishing deg.	270°
Amps	10A
Power	1200 W
Tool weight	6.8 lbs
QUICK-R™ front nut	30-B 020

# DRUM SANDER

## QUICK-STEP LINE-MATE III™

Order no. 30-A 268



### Linear finishing made easy

The Line-Mate III™ is a versatile variable speed tool that allows you to quickly and easily apply a wide range of linear finishes to metal surfaces. Its powerful motor will help you complete even the toughest jobs with ease. RPM remains constant under load for a consistent and uniform finish every time. When you have a project that requires a linear scratch pattern applied to the surface, trust Line-Mate to get the job done quickly and efficiently.

## LINE-MATE III™ SYSTEM

Order no. 30-A 269

### Includes:

- 1 Line-Mate III™ with standard equipment plus carrying case
- 1 pneumatic drum (07-F 051)
- 6 cloth drum belts (2 each grit: 60: 07-F 506, 80: 07-F 508 and 120: 07-F 511)
- 2 BLENDEX drum belts (Coarse: 07-H 502, medium: 07-H 503)
- 1 TWO-IN-ONE drum (4 ¼" x 4": 07-K 342)
- 1 BLENDEX drum (4 ¼" x 4" medium: 07-M 343)



Description	QUICK-STEP LINE-MATE III™
Model name	6268C
Order No.	30-A 268
Lock-on switch	✓
AC/DC compatibility	AC only
Soft-Start™	✓
Restart protection	✓
DYNAMAX™ RPM monitoring	✓
POWERGUARD™ overheat protection	✓
DIALSPEED™ variable RPM selector	✓
Spindle	5/8" - 11
RPM no-load	1,000 to 3,800
Amps	12.4 A
Power	1500 W
Weight	6 lbs
Max. wheel dimensions	4 ½" diameter x 4" length
<b>Standard Equipment</b>	
Side handle	48-Z 034
Manual clamping nut	30-B 037
Pin key wrench	48-Z 148
Inner flange	30-B 057

# POINT GRINDER

## DIALSPEED™ 6141

Order no. 30-A 141

For fitting and finishing work

The convenient design of this very popular point grinder results in increased performance and operator comfort to let you reach new levels of productivity. Proven electronics and the quality construction of the motor deliver more power to the spindle while the ergonomic housing minimizes fatigue. This tool is the perfect companion to our premium carbide burs for any deburring or shaping applications.

SPEED 1	10,000 rpm
SPEED 2	14,000 rpm
SPEED 3	18,500 rpm
SPEED 4	22,000 rpm
SPEED 5	26,000 rpm
SPEED 6	30,500 rpm



Description	DIALSPEED™ 6141
Model name	6141E
Order No.	30-A 141
Lock-on switch	√
AC/DC compatibility	AC compatibility only
Soft-Start™	√
Restart protection	√
DYNAMAX™ RPM monitoring	√
POWERGUARD™ overheat protection	√
DIALSPEED™ variable RPM selector	√
Collet	¼"
RPM no-load	10,000 to 30,500
Amps	6.4 A
Power	710 W
Tool weight	4.2 lbs
Tool length	13.75"
Maximum wheel diameter	1.5"
<b>Standard Equipment</b>	
¼ collet	30-B 046
Spanner	48-Z 019
<b>Optional Equipment</b>	
Cutting guard	30-B 051

# STRAIGHT GRINDER

## DIALSPEED™ 6145

**Order no.** 30-A 145

For finishing, brushing and polishing work

Our Dialspeed™ Straight Grinder operates at a lower RPM range, making it the perfect companion for mounted flap wheels or wire brushes for brushing, finishing or polishing applications. The newly designed planetary gears allow you to get closer to the workpiece, producing a uniform and straight finish. This industrial power tool is built to last and also features a side handle for increased control in applications requiring a delicate touch.

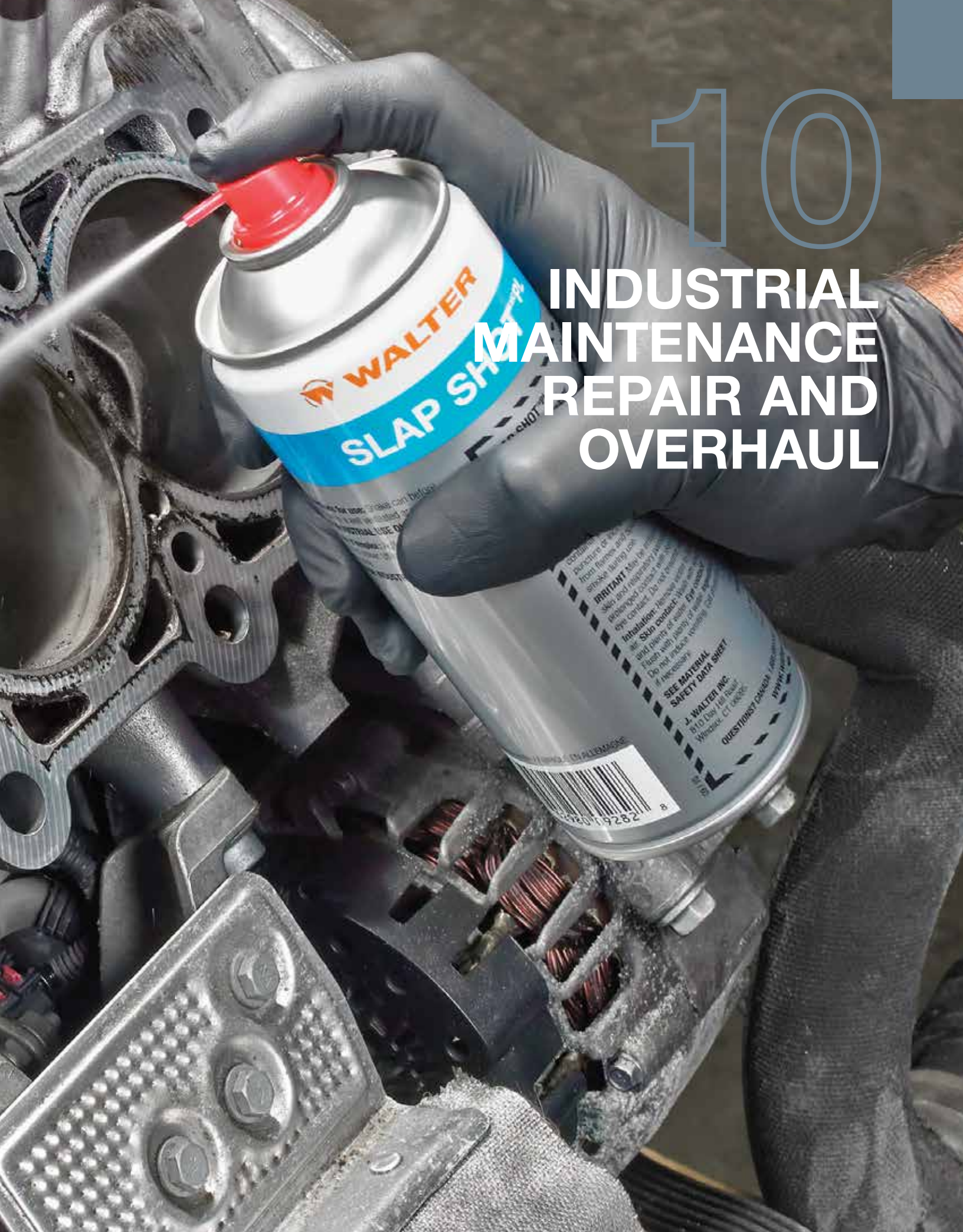


SPEED 1	2,500 rpm
SPEED 2	4,000 rpm
SPEED 3	5,500 rpm
SPEED 4	7,000 rpm
SPEED 5	8,000 rpm
SPEED 6	8,700 rpm

Description	DIALSPEED™ STRAIGHT GRINDER 6145
Model name	6145E
Order No.	30-A 145
Lock-on switch	√
AC/DC compatibility	AC compatibility only
Soft-Start™	√
Restart protection	√
DYNAMAX™ RPM monitoring	√
POWERGUARD™ overheat protection	√
DIALSPEED™ variable RPM selector	√
Collet	¼"
RPM no-load	2,500 to 8,700
Amps	8.5 A
Power	950 W
Tool weight	4.3 lbs
Tool length	14"
Maximum wheel diameter	1.5"
<b>Standard Equipment</b>	
Side handle	48-L 555
¼ collet	30-B 046
Spanner	48-Z 019
<b>Optional Equipment</b>	
Cutting guard	30-B 051

# 10

## INDUSTRIAL MAINTENANCE REPAIR AND OVERHAUL



# FAST EVAPORATING CLEANING AND DEGREASING

AF-PL™ is a system with a base unit that automatically dispenses AF-PL™ liquid cleaner and compressed air into refillable spray cans. Save money by buying your cleaner in bulk and reduce costs associated with the disposal of aerosol cans, all while reducing your environmental impact.



## Air Force AF-PL™

Plastic-safe, fast-evaporating parts degreaser

AF-PL™ is a residue-free, fast-evaporating cleaner/degreaser that dissolves and removes grease, oil, and grime safely and effectively. Specially formulated for maximum compatibility with plastics and rubber-like compounds. Bulk packaging provides great cost-effectiveness.



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	20 L	5.2 gal	53-C 557	L-65	1
Liquid	200 L	52.8 gal	53-C 558	L-65	1

### ACCESSORIES

	Order no.
Industrial pump sprayer for SC 400, PRO CLEAN, CB 100, AF-PL, FT 100 and OMNI.	53-L 120
Spout for 20 L round metal pail and 200L metal drum 3/4" NPT	53-L 208

### Applications

- ▷ Cleaning metal parts in presence of plastic or gaskets
- ▷ Removal of grease and oil

### Benefits

- ▷ Eliminates aerosol disposal costs
- ▷ Reduces environmental impact
- ▷ Improves sustainability

### Features

- ▷ Cost-effective brake cleaner alternative
- ▷ Safe for most plastics and rubber compounds
- ▷ Non-chlorinated solvents penetrate and displace moisture
- ▷ Evaporates fast—no residues, no rinsing



# AIR FORCE AF-PL™ START-UP PACKAGES

## Air Force AF-PL™ 20 L / 5.3 gal.

The start-up package includes:

- ▷ 1 x 53-C 557 AF-PL 20 L / 5.3 gal. pail
- ▷ 1 x 53-M 041 pail adaptor
- ▷ 6 x 53-M 101 refillable bottle
- ▷ 6 x 53-M 054 variable spray valve

Order no.: 53-M 012AFPLP



## Air Force AF-PL™ 200 L / 52.8 gal.

The start-up package includes:

- ▷ 1 x 53-C 558 AF-PL 200 L / 52.8 gal. drum
- ▷ 1 x 53-M 038 drum adaptor
- ▷ 1 x 53-M 025 safety valve
- ▷ 6 x 53-M 101 refillable bottle
- ▷ 6 x 53-M 054 variable spray valve

Order no.: 53-M 012AFPLD



## AF-PL™

Refillable sprayer

Durable and light weight aluminum AF-PL sprayer comes with an AF-PL specific label to clearly identify the contents and ensure full WHMIS and OSHA compliance.

**Fill capacity:** 400 ml / 13.5 oz

**Operating pressure:** 90 - 125 psi

**Order no. 53-M 101** (sold in package of 2)



Optional nozzles	Order No.
Wide spray	53-M 022
Long extension tube	53-M 052
Short extension tube	53-M 053
Variable spray	53-M 054
Accessories	Order No.
Air refilling station	53-M 010
Air nozzle	53-M 015
Replacement valve kit (includes 2 valves and 2 spray tips)	53-M 030
Brass screw cap	53-M 037
Replacement filling valve	53-M 039
Pail adaptor	53-M 041
Drum adaptor	53-M 038
Safety valve	53-M 025



*No more disposing  
of hazardous  
aerosol cans*



53-M 010

# FAST EVAPORATING CLEANING AND DEGREASING

## SLAP SHOT™

Plastic safe fast evaporating degreaser

SLAP SHOT™ is a highly effective, residue-free, fast evaporating cleaner/degreaser that dissolves and removes grease, oil, and grime on contact. **NSF category K1, registration #154299 (Aerosol) #154300 (Liquid)**

### Applications

- ▷ *Cleaning and degreasing for maintenance and repair*
- ▷ *Preparing surfaces for painting or relubrication*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	500 ml	16.9 fl.oz.	53-C 502	L-39	12
Liquid, trigger sprayer	500 ml	16.9 fl.oz.	53-C 503	L-40	12
Liquid	5 L	1.3 gal	53-C 506	L-40	1
Liquid	20 L	5.2 gal	53-C 507	L-40	1
Liquid	200 L	52.8 gal	53-C 508	L-40	1

### ACCESSORIES

	Order no.
Spout for 20 L round metal pail and 200L metal drum 3/4" NPT	53-L 208
Refillable trigger sprayer bottles	53-L 311

## SLAP SHOT™ PL

Plastic safe fast evaporating degreaser

SLAP SHOT™ PL is a highly effective, residue-free, fast evaporating cleaner/degreaser that dissolves and removes grease, oil, and grime on contact. Specially formulated for maximum compatibility with plastics and rubber-like compounds.

### Applications

- ▷ *Cleaning metal parts in presence of plastic or gaskets*
- ▷ *Removal of grease and oil*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 fl.oz.	53-C 552	L-64	12



### Benefits

- ▷ *Fast acting—dissolves stubborn contaminants quickly and completely*
- ▷ *No residues, no rinsing*

### Features

- ▷ *Multipurpose*
- ▷ *Safe on all metals*
- ▷ *Free of chlorinated solvent*
- ▷ *Strong aerosol jet*



### Benefits

- ▷ *Fast acting—dissolves stubborn contaminants quickly and completely*
- ▷ *No residues, no rinsing*

### Features

- ▷ *Multipurpose*
- ▷ *Safe on all metals and most plastics and rubber compounds*
- ▷ *Free of chlorinated solvent*
- ▷ *Strong aerosol jet*

# ELECTRONIC CONTACT CLEANING

## CONTACT CLEAN™

Nonflammable electronics and electrical equipment cleaner

Contact Clean™ removes grease, oil, and contaminants from sensitive electronics and electrical equipment to prevent contact failure. Fast-evaporating formula dries residue-free in seconds. Safe to use on most plastics.

**NSF category K2, registration #154540**



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	340 g	12 oz.	53-C 712	L-165	12

### Applications

- ▷ Removing contaminants from electrical parts
- ▷ Instrument and equipment junction cleaning (PLCs, printed circuit boards, vehicle fuse boxes)

### Benefits

- ▷ Fast acting—dissolves stubborn contaminants quickly and completely
- ▷ Fast evaporating
- ▷ No residues, no rinsing

### Features

- ▷ Safely cleans most plastics and rubber compounds
- ▷ Strong aerosol jet
- ▷ Nonconductive
- ▷ VOC compliant (per CARB310)



# FOOD GRADE LUBRICANTS

## FOOD ZONE™

Food grade general purpose lubricant

FOOD ZONE™ is a multipurpose lubricant and penetrating oil developed for food industry manufacturing plants. Extends equipment life by protecting against friction, wear, and corrosion.

**NSF category H1, registration #148372**

### Applications

- ▷ Lubrication and temporary corrosion protection of food and beverage processing equipment
- ▷ Loosening of rust, scale, grime, and corrosion



All Metals

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 oz.	53-D 602	L-153	12



### Benefits

- ▷ Lubricates and protects
- ▷ Displaces moisture and water
- ▷ Loosens rusted parts

### Features

- ▷ Fast-penetrating oil leaves a thin protective film
- ▷ Multipurpose

## FOOD ZONE™ V

High viscosity food grade lubricant

FOOD ZONE™ V is an industrial-strength lubricant designed for heavy-duty applications and chain lubrication in food-manufacturing facilities. Foamy, non-drying formula adheres to surfaces and reduces friction, wear, and corrosion in heavy-loaded machinery.

**NSF category H1, registration #148374**

### Applications

- ▷ Lubrication of chains and conveyor systems
- ▷ Lubrication of moving parts in heavy-loaded industrial machinery



Rubber

Plastic

All Metals

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 oz.	53-D 652	L-154	12



### Benefits

- ▷ Easy to apply
- ▷ Maximum adherence
- ▷ Protects against wear and corrosion

### Features

- ▷ Heavy-duty, high-grade formula with PTFE additives
- ▷ Thick, non-drying, water-resistant film
- ▷ Ideal for vertical surfaces

## OPEN GEAR™

High-load drive lubricant

OPEN GEAR™ is an adherent, long-lasting, high-load gear grease that prevents metal-to-metal contact. Increases efficiency and service life of drives and gears—even in harsh environments.

### Applications

- ▷ All types of heavy-duty chains, drives, and gears



All Metals

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 oz.	53-E 102	L-16	12



### Benefits

- ▷ Excellent lubrication under tremendous load and in harsh environments
- ▷ Won't fly off gears
- ▷ Extends machine life
- ▷ Minimizes downtime

### Features

- ▷ Contains moly and EP additives for high-load lubrication
- ▷ Highly adhesive
- ▷ Water- and dirt-resistant
- ▷ Resists loads up to 90 000 lbs/in<sup>2</sup>

## CHAIN GANG™

High load chain lubricant

CHAIN GANG™ is a high-performance synthetic lubricant that lasts longer than traditional lubricants. Effectively penetrates fine pins and bushings to seal out dust, dirt, water, and other contaminants. Provides excellent protection and enhances the life of any machinery that uses chains or wire cables.

### Applications

- ▷ All types of chain drives, O-ring chains, and wire rope
- ▷ Machinery (especially forklifts)



All Metals

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 oz.	53-D 102	L-05	12



### Benefits

- ▷ Reduces costly downtime due to seized chains, pin breakage, and premature wear
- ▷ Stays cleaner and lasts longer than hot grease dips
- ▷ Requires fewer applications than other lubricants
- ▷ Prolongs chain life

### Features

- ▷ Contains microscopic moly particles for excellent lubricity
- ▷ Penetrates fine clearances
- ▷ Water-resistant and dust-resistant
- ▷ Repels dirt particles

## HANG-ON™

Adhesive lubricant

HANG-ON™ is a highly adhesive maintenance lubricant that provides effective, long-lasting lubrication under harsh conditions and over extended periods of time.

### Applications

- ▷ Forklift truck chains, locking pins, snowplows, hinges, etc.
- ▷ Differentials in coupling units



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 oz.	53-D 812	L-33	12
Liquid	20 L	5.2 gal	53-D 817	L-45	1

### ACCESSORIES

Refillable trigger sprayer bottles

### Order no.

53-L 331

## BOLT-OUT™

Penetrating Lubricant

BOLT-OUT™ is a heavy-duty, non-chlorinated liquid solution that penetrates and lubricates to efficiently free seized parts while inhibiting further rust. Works well in a wide range of temperatures.

### Applications

- ▷ Loosening seized bolts, nuts, studs, and pins
- ▷ Disassembly of seized bolts, nuts, mechanisms, pins, bushings, etc.



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 oz.	53-D 892	L-08	12
Liquid, trigger sprayer	500 ml	16.9 fl.oz.	53-D 893	L-26	12
Liquid	20 L	5.2 gal	53-D 897	L-26	1

### ACCESSORIES

Refillable trigger sprayer bottles

### Order no.

53-L 332



### Benefits

- ▷ Outperforms and lasts longer than all-purpose and standard thin-film lubricants
- ▷ Resists exposure to weather, salt water, mild chemicals, high loads, and temperatures up to 200 °C (390 °F)
- ▷ Doesn't drip or stain vertical surfaces
- ▷ Efficient, long-lasting action reduces downtimes and maintenance frequencies

### Features

- ▷ Silicone-free chlorinated solvent
- ▷ Adheres extremely well to surfaces
- ▷ Penetrates fine clearances
- ▷ Displaces water and moisture



### Benefits

- ▷ Enables faster, easier disassembly
- ▷ Prevents/protects against further corrosion

### Features

- ▷ Nonflammable, silicone-free, no chlorinated solvents
- ▷ Contains microscopic moly particles for excellent lubricity
- ▷ Displaces moisture
- ▷ Effective from -20 °C to 250 °C (-4 °F to 482 °F)

## COLD SHOCK™ **NEW**

Seized parts are no match for fast penetrating Cold Shock™

Cold Shock™ is a high tech lubricant that frees corroded and seized parts by creating a sudden, shock-freezing effect to -35°C. Cold Shock™ penetrates micro-fissures to loosen nuts, bolts, studs, pins and other seized parts in an instant.

### Applications

- ▷ For use on corroded and seized nuts, bolts, studs, pins and other components.



### Benefits

- ▷ Loosens corroded and seized parts through cooling
- ▷ Powerful 1 to 2-minute penetration time

### Features

- ▷ Decreases parts temperatures to -35°C Shock-effect lubricant
- ▷ Straw extension for precise targeting

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 oz.	53-D 892	L-98F	12

## ROCK'N ROLL™

Ceramic anti-seize lubricant

ROCK'N ROLL™ is an inert, non toxic, metal-free white lubricant that prevents seizing of assemblies. Provides long-term protection against corrosion. Highly effective in a wide range of temperatures (-30C or -22°F to 1400C or 2500°F) and in extreme conditions.

### Applications

- ▷ Lubrication of all threaded components, bushings, and press fits
- ▷ Lubrication of highly stressed bearings



### Benefits

- ▷ Makes disassembly easy and efficient
- ▷ Provides long-term corrosion protection
- ▷ No galling or seizing
- ▷ Safe for food industry applications

### Features

- ▷ Inert ingredients
- ▷ Non-carbonizing
- ▷ (Paste) highly resistant to water, seawater, benzene, and most acids and alkalis



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 oz.	53-D 852	L-43	12
Paste/Brush	300 g	10.6 oz.	53-D 854	L-44	12

# CUTTING FLUIDS

## COOLCUT™

Metal cutting lubricant

Coolcut™ is a ready-to-use, high-performance metal cutting lubricant that stands up to pressure and heat to reduce tool wear and prevent tool breakage.

### Applications

- ▷ Machining operations
- ▷ Drilling



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	312 g	11 oz.	53-B 002	L-01	12
Solid Stick	300 g	300 g	53-B 013	L-22E	
Liquid/Squeeze bottle	350 ml	11.8 fl.oz.	53-B 003	L-09	12
Trigger sprayer	500 ml	16.9 oz.	53-B 004	L-09	12
Liquid	3.78 L	1 gal	53-B 005	L-09	1
Liquid	20 L	5.2 gal	53-B 007	L-09	1
Liquid	208 L	55 gal	53-B 008	L-09	1

### ACCESSORIES

	Order no.
Spout for 20 L square plastic pail	53-L 207
Spout for 208L plastic drum 2" NPT	53-L 209
Spout for 208L plastic drum 3/4" NPT	53-L 210



### Benefits

- ▷ Reduces friction and heat
- ▷ Extends cutting tool life
- ▷ Improves finish
- ▷ Increases productivity

### Features

- ▷ Contains extreme pressure additives (EP)
- ▷ Suitable for all ferrous and non-ferrous metals
- ▷ Non hazardous, biodegradable
- ▷ Free of solvents and chlorinated ingredients





## COOLCUT S-30™

Water miscible cutting lubricant

Coolcut S-30™ is a ready-to-use, high-performance metal cutting lubricant specially designed for automatic and semiautomatic metal removing operations.

### Applications

- ▷ *Drilling*
- ▷ *Milling*

### Benefits

- ▷ *Will not gum up slides and guides*
- ▷ *Increases feed, speed, and production*
- ▷ *Prevents bacterial growth when not in use*
- ▷ *Reduces friction and heat*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	3.78 L	1 gal	53-C 005	L-119	1
Liquid	20 L	5.2 gal	53-C 007	L-119	1
Liquid	208 L	55 gal	53-C 008	L-119	1

### ACCESSORIES

	Order no.
SB-30 System booster	53-C 011
Spout for 20 L square plastic pail	53-L 207
Spout for 208L plastic drum 2" NPT	53-L 209

## COOLCUT S-50™

Water-miscible cutting lubricant for high-pressure applications

Coolcut S-50™ is a ready-to-use, high-performance metal cutting lubricant specially designed for automatic and semi-automatic metal removing operations, even in severe machining processes and high-pressure conditions. Ideal for hard-to-machine materials.

### Applications

- ▷ *Drilling*
- ▷ *Milling*

### Benefits

- ▷ *Increases feed, speed and production*
- ▷ *Extends cutting tool life*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	3.78 L	1 gal	53-C 025	L-109	1
Liquid	20 L	5.2 gal	53-C 027	L-109	1
Liquid	208 L	55 gal	53-C 028	L-109	1



### Features

- ▷ *Formulated with extended corrosion protection*
- ▷ *Stable emulsion*
- ▷ *Contains extreme pressure additives (EP), bacterial control ingredients, and no chlorine*
- ▷ *Can be diluted up to 1:30*



### Features

- ▷ *Contains extreme pressure additives (EP)*
- ▷ *Formulated with extended corrosion protection*
- ▷ *Bactericide-free*
- ▷ *Can be diluted up to 1:30*

## ALUCUT™

Solid stick aluminum cutting lubricant

Alucut™ is a high-performance lubricant that extends cutting tool life. Specially formulated for use with aluminum and other non-ferrous metals.

### Applications

- ▷ *Cutting with circular chopsaws*
- ▷ *Drilling*

### Benefits

- ▷ *Reduces scoring and chatter marks*
- ▷ *Improves finish*
- ▷ *Increases productivity*
- ▷ *Minimizes waste*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Solid Stick	300 g	10.5 oz.	53-B 303	L-04E	12

## STAINLESSCUT™

Stainless steel cutting lubricant

STAINLESSCUT™ is a heavy-duty cutting lubricant designed for tough metal cutting operations. Formulated for stainless steel, alloys, and ferrous alloys.

### Applications

- ▷ *Machining operations*
- ▷ *Drilling*

### Benefits

- ▷ *Washes off completely with water*
- ▷ *Easy clean-up*
- ▷ *Improves finish to prolong tool life*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	312 g	11 oz.	53-B 202	L-53	12
Liquid/Squeeze bottle	350 ml	11.8 fl.oz.	53-B 203	L-114	12
Liquid	3.78 L	1 gal	53-B 205	L-114	1



### Features

- ▷ *Solid stick*
- ▷ *Clean, precise, stain-free application*
- ▷ *Coats cutting edge or workpiece*
- ▷ *Ideal for inclined, vertical, and overhead surfaces*



### Features

- ▷ *Contains extreme pressure additives (EP)*
- ▷ *Solvent-free, sulfur-free, and chlorine-free*
- ▷ *High lubricity and cooling properties*
- ▷ *Non hazardous, biodegradable*

## ICECUT™

Ready-to-use coolant/lubricant

ICECUT™ is a ready-to-use coolant/lubricant specially formulated for use with magnetic drilling units to reduce tool wear and improve production rates.

### Applications

- ▷ *Drilling with annular cutters, carbide core cutters, and drill bits*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	3.78 L	1 gal	53-C 055	L-122E	1
Liquid	20 L	5.2 gal	53-C 057	L-122E	1

### ACCESSORIES

Spout for 20 L square plastic pail

**Order no.**  
53-L 207



### Benefits

- ▷ *Reduces friction and heat*
- ▷ *Extends cutting tool life*
- ▷ *Increases productivity*
- ▷ *Improves finish*

### Features

- ▷ *Nitrate-free, amine-free, boron-free, phenol-free and active sulfur-free*

## TAPCUT™

Thread cutting lubricant

TAPCUT™ lubricant is specially formulated for thread cutting with taps and dies.

### Applications

- ▷ *Hand tapping*
- ▷ *Machine tapping*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid / Squeeze bottle	350 ml	11.8 fl.oz.	53-A 103	L-115E	12
Liquid	3.78 L	1 gal	53-A 105	L-115E	1
Liquid	20 L	5.2 gal	53-A 107	L-115E	1

### ACCESSORIES

Spout for 20 L square plastic pail

**Order no.**  
53-L 207



### Benefits

- ▷ *Taps and dies cut faster and last longer*
- ▷ *Cleans up easily with water*

### Features

- ▷ *Special antiwear additives for thread cutting*
- ▷ *Produces clean, accurate threads*
- ▷ *Non hazardous, biodegradable*

# CORROSION PROTECTION

## ZINC 100™

Bright galvanizing spray

ZINC 100™ is a bright, long-lasting corrosion protection spray specially formulated for the touch-up and repair of hot galvanized parts.

### Applications

- ▷ Food processing equipment
- ▷ Water and storage tanks

### Benefits

- ▷ Effective, long-lasting corrosion protection
- ▷ Resists chemical and water attack
- ▷ Can be painted over



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	11.5 oz.	53-H 102	L-54	12

## ZINC 200™

Cold galvanizing spray

ZINC 200™ is a high-performance, fast-drying corrosion protection spray specially formulated for ferrous metals. Provides the ultimate protection—even when surfaces get scratched.

### Applications

- ▷ Marine equipment
- ▷ Weather-exposed parts

### Benefits

- ▷ Longest lasting corrosion protection in the marketplace
- ▷ Extremely effective when used as a primer
- ▷ Withstands harsh environmental conditions



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	11.5 oz.	53-H 152	L-95	12

## SHIELD PRO™

Heavy-duty industrial corrosion protection

SHIELD PRO™ is an adherent, non-drying solution that coats metal parts to protect against corrosion. Ideal for indoor and outdoor storage.

### Applications

- ▷ Corrosion protection of outdoor equipment and tools, overseas storage and shipments, cables, chains, pulleys, pump and hose assemblies, and more
- ▷ Suitable for all types of maintenance and repair applications

### Benefits

- ▷ Long-term indoor and outdoor corrosion protection
- ▷ Withstands harsh conditions

### Features

- ▷ Non-drying film
- ▷ Penetrates and displace moistures
- ▷ Salt water resistant



### Features

- ▷ Zinc flakes permanently bond to metallic surfaces
- ▷ Bright metallic finish matches hot dipped look
- ▷ Fast drying
- ▷ Zinc-rich formula meets ASTM A780 standard



### Features

- ▷ Actively fights rust & corrosion
- ▷ Dual-action protection (resin coat and galvanic action)
- ▷ Meets ASTM A780
- ▷ Dull finish, dries to touch in 3-5 min.



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	3.78 L	1 gal	53-H 255	L-170	1
Liquid	20 L	5.2 gal	53-H 257	L-170	1
Liquid	200 L	52.8 gal	53-H 258	L-170	1

### ACCESSORIES

Spout for 20 L round metal pail and 200L metal drum  
3/4" NPT

**Order no.**  
53-L 208

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# BIO-CIRCLE<sup>®</sup> PRODUCT LINE

ECO-FRIENDLY  
HIGH PERFORMANCE  
CLEANING, DEGREASING  
AND LUBRICATING  
SOLUTIONS



CAP: 3T

BIO-CIRCLE  
CB 100

BIO-CIRCLE  
CB 500

# BETTER WORKER SAFETY AND PRODUCTIVITY FROM BETTER CLEANING SOLUTIONS



Walter Surface Technologies' Bio-Circle® product line offers high-performance cleaning, degreasing and lubricating solutions that are eco-friendly and improve worker health and safety. Our bio-remediating and bio-renewable liquids replace hazardous solvents and reduce the costs of protecting workers from exposure to toxic chemicals.

Bio-Circle® products create a safer and healthier work environment by using nonflammable, biodegradable, VOC-reduced and VOC-free formulas. Our nature-powered products come in a wide range of sizes and formats to suit your needs. From small, no-drip, continuous spray mist bottles to bulk barrels or totes, Walter's got you covered.

Because our focus is maintenance, repair and overhaul (MRO) businesses, as well as industrial manufacturing processes, you can be confident we understand your needs. Walter representatives will analyze your contaminants and cleaning processes and recommend ways to improve productivity. We'll provide a detailed cost-analysis report to help you make informed decisions.

Our industry-leading formulas satisfy ultra-specific, high-volume surface treatment and cleaning needs, making the Bio-Circle® family of products the clear choice for manufacturing applications of all kinds.

No matter how stringent your cleaning requirements, we can provide the perfect custom solution—to improve working conditions, reduce waste, protect the environment and maximize productivity. Refer to our selection chart on page 192 for quick tips on choosing the right cleaner to get the job done.

# CLEANING BASICS

Before exploring all that Walter’s Bio-Circle® product line has to offer, here are some quick and easy tips that will help you choose the right cleaner to get the job done.

Cleaning products are divided into water-based cleaners and solvents. What differentiates water-based cleaners (and the way they remove contaminants) is their pH; they can be acidic, neutral or alkaline. Once you know the required pH for your application, you can easily choose the best cleaner to remove the given contaminant quickly and easily.

Acidic cleaners are used to remove inorganic contaminants such as rust, limescale and mineral deposits from metallic surfaces.

Neutral cleaners are used whenever the use of acidic or alkaline cleaners is a concern, or if the items to be cleaned are delicate.

Alkaline cleaners are used to remove organic contaminants such as grease, oil and protein residues.

	Cleaner type	Products	Comparatives
0	<b>Acidic</b>		
	Oxidation Rust Mineral deposits	E-NOX CLEAN POWER CLEANER 100	Battery acid Gastric acid Vinegar Cola Coffee Beer, wine Saliva
		BIO-RUST	
5	<b>Neutral</b>		
	Oil, grease, rust	BIO-CIRCLE L BIO-CIRCLE ULTRA BIO-CIRCLE AERO CB 100 ALU	Seawater Baking soda Drinking water
10	<b>Alkaline</b>		
	Oil, proteins, grease, wax, resin	CB 100 E-NOX SHINE, UNO S, UNO S F, FT 100, FT 200 ALUSTAR 200 STAR 200 ALUSTAR 300	Liquid ammonia Soapy water
14			

## The Cleaning Matrix

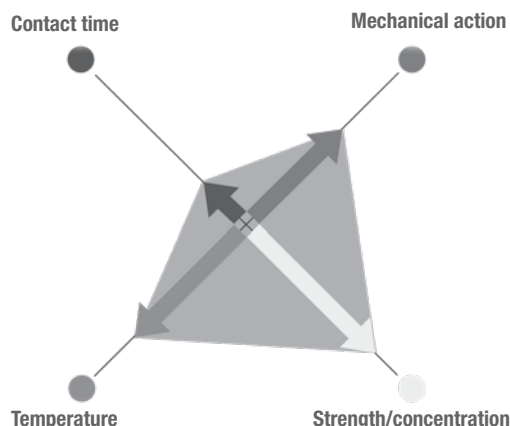
When it comes to cleaning and cleaning efficiency, each product’s cleaning performance can be improved by four key elements:

- Contact time
- Mechanical action
- Temperature
- Strength/concentration

If any of these four elements are increased, the performance of your given product will be improved.

For example:

Using a high pressure washer (mechanical) and hot tap water (temperature) mixed with a cleaner in its strongest concentration (power) for 1 minute (time) will result in a given cleaner performance. By increasing the time or the temperature at which you use the product, you will increase the performance of the product.



# CLEANING AND DEGREASING SELECTION CHART

TYPE OF CLEANERS		ALKALINE / NEUTRAL							
Contaminant		<i>Organic: grease, oil, corrosion protection, lubricants, smoke, finger prints, dust, carbon, graphite, soot, etc.</i>							
Cleaning process		Spray and wipe	Ultrasonic bath	Floor washing machine and general maintenance	Pressure washer	Hot parts washer	Automated parts washer	Dip tank	Manual parts washer
Parent material	Steel	UNO S F UNO S FT 100 FT 200	CB 100 STAR 200	UNO S F	UNO S F	STAR 200 ALUSTAR 200 ALUSTAR 300	STAR 200 ALUSTAR 200 ALUSTAR 300	CB 100	Bio-Circle L Bio-Circle Ultra CB 100
	Stainless steel	UNO S F UNO S FT 100 FT 200 E-Nox Shine	CB 100 STAR 200	UNO S F	UNO S F	STAR 200 ALUSTAR 200 ALUSTAR 300	STAR 200 ALUSTAR 200 ALUSTAR 300	CB 100	
	Aluminum	FT 100 FT 200 E-Nox Shine	CB 100 ALU ALUSTAR 200 ALUSTAR 300			ALUSTAR 200 ALUSTAR 300	ALUSTAR 200 ALUSTAR 300	CB 100 ALU	Bio-Circle Aero CB 100 ALU
	Copper / Brass	FT 100 FT 200	CB 100 ALU			ALUSTAR 200 ALUSTAR 300	ALUSTAR 200 ALUSTAR 300	CB 100 ALU	
	Glass	UNO S F UNO S FT 100 FT 200	CB 100	UNO S F	UNO S F	STAR 200 ALUSTAR 200 ALUSTAR 300	STAR 200 ALUSTAR 200 ALUSTAR 300	CB 100	—
	Plastic	UNO S F UNO S FT 100 FT 200	CB 100	UNO S F	UNO S F	STAR 200 ALUSTAR 200 ALUSTAR 300	STAR 200 ALUSTAR 200 ALUSTAR 300	CB 100	—

Note: It is very important to know the next step after cleaning. For instance, if painting is required after the cleaning operation, a surface preparation cleaner may be recommended.

**Inorganic contaminant:** Mineral-based compounds such as rust, limescale, etc.

**Organic contaminants:** Carbon-based compounds such as oil, grease, etc.

**Other contaminants:** Can be a combination of organic and inorganic contaminants

Neutralization of acidic cleaners: Proper neutralization with an alkaline cleaner is always required to deactivate the acid and prevent damages to the parent material

Steps to proper neutralization:

1. Wipe off the excess of acid
2. Apply an alkaline cleaner
3. Wipe off the surface with a clean rag (rinse and dry when necessary)



ACIDIC					ULTRA-POWERFUL NATURAL CLEANER AND DEGREASER		
<i>Inorganic:</i> rust, corrosion, limescale, calamine, heat tint, etc.					<i>Other:</i> paint, glue, adhesive, ink, wax, tar, etc.		
Spray and wipe	Ultrasonic bath	Hot parts washer	Automated parts washer	Dip tank	Spray and wipe	Ultrasonic bath	Dip tank
E-Nox Clean	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	Bio-Rust and Power Cleaner 100	PRO CLEAN SC 400	CB 100	PRO CLEAN CB 100
E-Nox Clean	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	PRO CLEAN SC 400	CB 100	PRO CLEAN CB 100
E-Nox Clean	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	PRO CLEAN SC 400	CB 100 ALU CB 100 ALU	PRO CLEAN CB 100 ALU
E-Nox Clean	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	PRO CLEAN SC 400	CB 100 ALU	PRO CLEAN CB 100 ALU
E-Nox Clean	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	Power Cleaner 100	PRO CLEAN SC 400	CB 100	PRO CLEAN CB 100
—	—	—	—	—	—	CB 100	CB 100



# CLEANER CHARACTERISTICS

	Fast evaporating	Flammability	pH level	Residue	Short term protection	Long term protection	Rinsable	Dilutable	Biodegradable
BIO-CIRCLE L BIO-CIRCLE ULTRA BIO-CIRCLE AERO	No	None	Neutral	Yes	Yes	No	Yes	No	Yes
CB 100	No	None	Slightly alkaline	Yes	Yes	No	Yes	No	Yes
CB 100 ALU	No	None	Slightly alkaline	Yes	Yes	No	Yes	No	Yes
UNO S	No	None	Alkaline	Yes	Yes	No	Yes	Yes (up to 40:1)	Yes
UNO S F	No	None	Alkaline	Yes	Yes	No	Yes	Yes (up to 40:1)	Yes
STAR 200	No	None	Alkaline	Yes	Yes	No	Yes	Yes (up to 1:200)	Yes
ALUSTAR 200	No	None	Alkaline	Low (when used as directed)	Yes	No	Yes	Yes (up to 1:200)	Yes
ALUSTAR 300	No	None	Alkaline	Low	Yes	No	Yes	Yes (up to 1:200)	Yes
E-NOX CLEAN	No	None	Acidic	Yes	No	No	Yes	Yes (up to 40:1)	Yes
E-NOX SHINE	No	None	Alkaline	Yes	Yes	No	Yes	No	Yes
BIO-RUST	No	None	Slightly acidic	Yes	Yes	No	Yes	No	Yes
POWER CLEANER 100	No	None	Acidic	Yes	No	No	Yes	Yes (up to 40:1)	Yes
PRO CLEAN	No	Low (102°C/215°F)	---	Yes	No	No	No	No	Yes
SC 400	No	Mod. (45°C/113°F)	---	Yes	No	No	No	No	Yes
OMNI	No	Low (125°C/257°F)	---	Yes	Yes	Yes	No	No	No
FT 100	Yes (after wiping)	Mod.(43°C/104°F)	Slightly alkaline	Low	No	No	Yes	No	Yes
FT 200	Yes (after wiping)	Mod.(40°C/104°F)	Slightly alkaline	Low	No	No	Yes	No	Yes
AF-PL	Yes	High (-24°C/-11°F)	---	No	No	No	No	No	No
SLAP SHOT	Yes	High (-24°C/-11°F)	---	No	No	No	No	No	No
CONTACT CLEAN	Yes	None	---	No	No	No	No	No	No

Legend: ● Water-based ● Natural solvent-based ● Oil-based ● Solvent-based



**Accepted for use in food plants**

Products with this logo presented are accepted for use in food plants within Canadian borders.



**Volatile Organic Compounds Free**

Consumers today are far more knowledgeable regarding products containing potentially toxic levels of volatile organic compounds, commonly known as VOCs. Paints, stains, and varnishes have long contributed considerably to the prolific release of VOCs, sometimes known as off-gassing. This explains the growing popularity of low-VOC and VOC-free products. Products where you see the VOC-free logo guarantee that they contain no volatile organic compounds.



**CAS - Clean Air Solvent Certification**

The Clean Air Act Solvent Certification is delivered by the SCAQMD (South Coast Air Quality Management District). They are committed to protect the health of residents in the Orange County and the urban portion of Los Angeles, Riverside and San Bernardino counties (California). Their environmental certification criteria are among the most strict around the world.

# CLEANER APPROVALS

	TSCA compliant	DSL/NDSL compliant <sup>2</sup>	NSF approved <sup>1</sup>	Accepted for use in food plants in Canada
BIO-CIRCLE L BIO-CIRCLE ULTRA BIO-CIRCLE AERO	Yes	Yes	Yes	Yes
CB 100	Yes	Yes	Yes	No
CB 100 ALU	Yes	Yes	No	No
UNO S	Yes	Yes	Yes	Yes
UNO S F	Yes	Yes	Yes	Yes
STAR 200	Yes	Yes	No	Yes
ALUSTAR 200	Yes	Yes	Yes	Yes
ALUSTAR 300	Yes	Yes	Yes	Yes
E-NOX CLEAN	Yes	Yes	Yes	Yes
E-NOX SHINE	Yes	Yes	Yes	Yes
BIO-RUST	Yes	Yes	Yes	No
POWER CLEANER 100	Yes	Yes	Yes	Yes
PRO CLEAN	Yes	Yes	Yes	Yes
SC 400	Yes	Yes	No	No
OMNI	Yes	Yes	Yes	Yes
FT 100	Yes	Yes	Yes	No
FT 200	Yes	Yes	Yes	Yes
AF-PL	Yes	Yes	No	No
SLAP SHOT	Yes	Yes	Yes	Yes
CONTACT CLEAN	Yes	Yes	Yes	No



<sup>1</sup> National Sanitation Foundation

<sup>2</sup> Domestic Substances List



### Nonfood Compounds Program

The global food industry relies upon nonfood compounds to facilitate the efficient processing, handling and storage of food throughout the supply chain. Nonfood compounds include such substances as cleaners, sanitizers, boiler compounds and lubricants. NSF International Nonfood Compounds Registration Program provides beneficial product information to three important stakeholder groups.



### Low Energy Surfactant (LES) technology

These unique surfactants can clean and degrease effectively at lower temperatures, thus generating substantial energy savings. Lower the temperature of your automated industrial parts washers today! NOTE: Dilution up to 1:200

## CLEANER SELECTOR APP

# Choose the right cleaner every time!

By answering three simple questions, the Bio-Circle Cleaner Selector app leads you to the perfect cleaner/degreaser that will get the job done quickly and easily.

- 1. Choose the contaminant you want to clean**
- 2. Choose the surface material**
- 3. Choose your cleaning method**

This app will recommend the ideal cleaner/degreaser for your requirements and provide you with valuable information, features and benefits, applications, tips as well as access to SDS/TDS, videos and free samples!



# LIQUIDS AVAILABLE SIZES

Our Bio-Circle® nature-powered cleaning and degreasing products come in a wide range of sizes and formats to suit your needs. From small, no-drip, continuous spray mist bottles to bulk barrels or totes, Walter's got you covered.

Our industry-leading Bio-Circle® formulas and delivery systems can satisfy ultra-specific, high-volume surface treatment and cleaning needs, making the Bio-Circle® family of products the clear choice for manufacturing applications of all kinds. No matter how stringent your cleaning requirements, Walter's team of Bio-Circle® experts will provide you with the perfect custom solution—one that improves working conditions, reduces waste, protects the environment, and maximizes productivity.



# BIO-RENEWABLE AND BIO-REMEDICATING SOLUTIONS



## BIO-RENEWABLE SOLUTIONS

Heavy-duty cleaning for removing ink, adhesive, synthetic oils, heavy grease and other tough contaminants. Working exceptionally well at room temperature, these solutions only need periodical oil skimming.

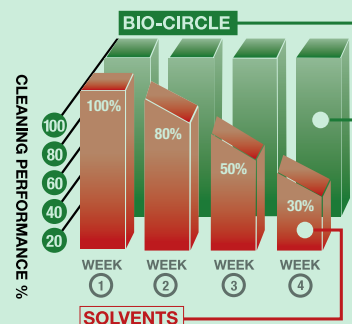
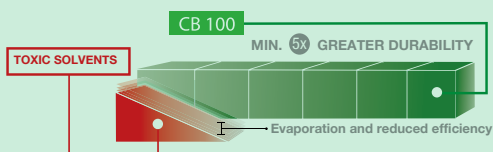
Bio-renewable cleaning liquids are powered by Nature Boost™ an exclusive and powerful ingredient derived from plant-based extracts. Bio-renewable solutions keep their full cleaning power over a longer period of time than toxic solvents because the oil separates and floats to the surface, allowing you to skim oils from the top of your tank.

## BIO-REMEDICATING SOLUTIONS

These self-regenerating solutions contain micro-organisms that break down oils and greases into CO<sub>2</sub> and H<sub>2</sub>O, with almost ZERO waste products to dispose of.

Our bio-remediating family of cleaners contain live micro-organisms that digest oils and other organic contaminants, turning them into water and carbon dioxide. Bio-remediating liquids maintain their cleaning power over time, an economical and environmental advantage over toxic solvents and weaker water based systems.

### Durability comparison





# BIO-RENEWABLE SOLUTIONS

Heavy-duty cleaning for removing ink, adhesive, synthetic oils, heavy grease and other tough contaminants. These solutions work exceptionally well at room temperature and only require periodical oil skimming.

## CB 100™

Natural industrial-strength cleaner and degreaser

CB 100™ is next-generation cleaning technology. Powered by our exclusive Nature Boost™ formula, CB 100™ is unsurpassed in its ability to remove the most stubborn industrial contaminants.

**NSF category C1, registration #148555**

### Applications

- ▷ *Cleaning asphalt from paving equipment*
- ▷ *Removing tough greases from gears and bearings*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 oz.	53-G 163	L-155	12
Liquid	3.78 L	1 gal	53-G 165	L-155	1
Liquid	20 L	5.2 gal	53-G 167	L-155	1
Liquid	208 L	55 gal	53-G 168	L-155	1
Liquid	1000 L	264 gal	53-G 169	L-155	1



### Benefits

- ▷ *Outlasts solvent cleaners by 3-5x*
- ▷ *Shortens cleaning time*
- ▷ *Creates a safer, more pleasant work environment*
- ▷ *Reduces workplace liability*

### Features

- ▷ *Ready-to-use, non-caustic, non-hazardous, phosphate-free, and butyl-free*
- ▷ *Cuts through contaminants most solvents can't touch*
- ▷ *Great cleaning power at room temperature*
- ▷ *VOC-free*

## CB 100 ALU™

Natural industrial-strength cleaner and degreaser for non-ferrous alloys

CB 100™ ALU is a powerful cleaner/degreaser powered by our unique Nature Boost™ technology. Similar to the CB 100™ cleaning solution, yet specially designed for cleaning aluminum and sensitive alloys. Replaces hazardous solvents and petroleum-based products for improved health and safety in the workplace.

### Applications

- ▷ *Removing coolants and cutting oils from parts in machine shops*
- ▷ *Degreasing engine components during repair and rebuild operations*
- ▷ *New and improved formula coming in the summer of 2019.*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer	500 ml	16.9 fl.oz.	53-G 123	L-158	12
Liquid	3.78 L	1 gal	53-G 125	L-158	1
Liquid	20 L	5.2 gal	53-G 127	L-158	1
Liquid	208 L	55 gal	53-G 128	L-158	1
Liquid	1000 L	264 gal	53-G 129	L-158	1



### Benefits

- ▷ *Outlasts solvent cleaners by 3-5x*
- ▷ *Shortens cleaning time*
- ▷ *Eliminates material compatibility issues*
- ▷ *Reduces workplace liability*

### Features

- ▷ *Ready-to-use, non-caustic, non-hazardous, phosphate-free, and butyl-free*
- ▷ *Great cleaning power at room temperature*
- ▷ *VOC free*
- ▷ *Formulated with special corrosion protection*

# BIO-REMEDIATING SOLUTIONS

These self-regenerating solutions contain micro-organisms that break down oils and greases into CO<sub>2</sub> and H<sub>2</sub>O, with almost ZERO waste products to dispose of.

## BIO-CIRCLE® L

Bio-remediating parts cleaner and degreaser

Bio-Circle® L is a top-selling Bio-remediating parts cleaner and degreaser used in thousands of operations worldwide. Maintains its cleaning power over time, offering an economical and environmental advantage over toxic solvents and weaker water-based systems.

**NSF category C1, registration #141285**

### Applications

- ▷ *Parts cleaning*
- ▷ *Facility maintenance*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	20 L	5.2 gal	55-A 007	L-78	1
Liquid	200 L	55 gal	55-A 008	L-78	1
Liquid	1000 L	264 gal	55-A 009	L-78	1



### Benefits

- ▷ *Maximum strength for life of product*
- ▷ *Reduces waste and disposal costs*
- ▷ *Creates a safer, more pleasant work environment*
- ▷ *No respiration equipment required*

### Features

- ▷ *Continuously self-renewing with minimal waste streams*
- ▷ *Non-hazardous, nonflammable, VOC-free*
- ▷ *Pleasant scent—no harsh fumes or vapors*
- ▷ *Safe on skin*

## BIO-CIRCLE® ULTRA



Extra powerful bio-remediating parts cleaner and degreaser

Bio-Circle® Ultra is a bio-remediating parts cleaner and degreaser that easily cuts through some of the toughest industrial contaminants including crude oil, bitumen, and heavy grease. Maintains its cleaning power over time, offering an economical and environmental advantage over toxic solvents and weaker water-based systems.

**NSF category C1, registration #145549**

### Applications

- ▷ *MRO and production*
- ▷ *Rebuild and repair operations*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	20 L	5.2 gal	55-A 107	L-148	1
Liquid	208 L	55 gal	55-A 108	L-148	1
Liquid	1000 L	264 gal	55-A 109	L-148	1



### Benefits

- ▷ *Maximum strength for life of product*
- ▷ *Reduces waste and disposal costs*
- ▷ *Creates a safer, more pleasant work environment*
- ▷ *No respiration equipment required*

### Features

- ▷ *Continuously self-renewing with minimal waste streams*
- ▷ *Non-hazardous, nonflammable, VOC-free*
- ▷ *Powered by Nature Boost™, an exclusive, highly effective natural ingredient*
- ▷ *Pleasant scent—no harsh fumes or vapors*



# BIO-CIRCLE® Aero

Bio-remediating parts cleaner and degreaser for aircraft use

Bio-Circle® Aero liquid is a bio-remediating parts cleaner and degreaser designed to meet the aeronautical industry's stringent requirements. Safe for use with aluminum and other sensitive alloys.

## Applications

- ▷ Airport maintenance
- ▷ Aerospace parts manufacturing



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	20 L	5.2 gal	55-A 207	L-161	1
Liquid	208 L	55 gal	55-A 208	L-161	1
Liquid	1000 L	264 gal	55-A 209	L-161	1

## Benefits

- ▷ Maximum strength for life of product
- ▷ Eliminates material compatibility issues
- ▷ Reduces waste and disposal costs
- ▷ Creates a safer, more pleasant work environment

## Features

- ▷ Continuously self-renewing with minimal waste streams
- ▷ Conforms to: Boeing D6-17487 Revision R Douglas Aircraft Company CSD No.1 (Type I) AMS 1526C
- ▷ Non-hazardous, nonflammable, Non-hazardous, VOC-free, pH neutral
- ▷ Safe for all metals and most surfaces



# PARTS WASHER FEATURES

If you're looking to create a safer workplace without compromising performance, our Bio-Circle® MAXI industrial parts washer is built for you. This cutting-edge cleaning and degreasing system is sturdy, reliable, low maintenance, and specially designed for water-based cleaning, allowing you to quickly power through the most demanding cleaning jobs. When paired with Bio-Circle® or CB 100™ solutions, our parts washer will transform your cleaning operations, making them easy, eco-friendly, efficient and safe.

- 1 Electronically controlled PCB board with onboard diagnostics
- 2 LED flashing push button: *Flashing LED push button displays machine status*
- 3 Air pump: *Provides air circulation and convection*
- 4 In-line filter housing: *Ensures filtration of heavy metal pieces and contaminants*
- 5 CSA certified: *Conforms to industry standards for safety compliance materials and electronics*
- 6 Fluid pump: *Electronically controlled fluid pump for liquid circulation*
- 7 Air diffuser: *Distributes air evenly for maximum circulation*
- 8 Probe: *Rugged stainless probe construction houses temperature and thermal shut-off safety sensors*
- 9 Heater: *Liquid heating ensures optimal cleaning performance*
- 10 Under-sink filter bag : *Ensures filtration of heavy metal pieces and contaminants*
- 11 Gasket: *Prevents unwanted liquid evaporation*
- 12 Sink filter assembly:
  - Magnet: *Traps metallic particles*
  - Flapper: *Prevents unwanted liquid evaporation*
  - In-sink filters: *Filter meshes (2 sizes) trap heavy metal pieces and contaminants*
- 13 Two-way valve:
  - Flexible articulated hose: *Provides steady stream of liquid for cleaning*
  - Multijet flow-through brush: *Provides steady stream of liquid for cleaning, plus integration brush for scrubbing*



## BIO-CIRCLE® MAXI

Order No.	Dimensions	Max tank capacity	Load capacity
55-D 600	97 x 69 x 110 (38" x 27" x 43")	140 L (37 gal)	220 Kg (500 lbs)

ACCESSORIES	Order No.
Sink lid	55-B 047
Stainless steel sink insert	55-B 048
Casters	55-B 049

# BIO-RENEWABLE START-UP PACKAGES

Each start-up package includes the Bio-Circle® MAXI industrial parts washer and ultra-powerful natural cleaning and degreasing solutions.



***INCLUDED: 6 PAILS (20L / 5.2 GAL.)***

Name	Order No.
CB 100	55-D 615CBP
CB 100 ALU	55-D 615CBAP

***INCLUDED: 1 DRUM (208L / 55 GAL.)***

Name	Order No.
CB 100	55-D 615CBD
CB 100 ALU	55-D 615CBAD

# BIO-REMEDICATING START-UP PACKAGES

Each start-up package includes the Bio-Circle® MAXI industrial parts washer and safe and efficient BIO-REMEDICATING cleaning solutions. These Bio-Circle® liquids maintain their cleaning power over time, a clear advantage over solvents.



***INCLUDED: 6 PAILS (20L / 5.2 GAL.)***

Name	Order No.
Bio-Circle® L	55-D 600BCLP
Bio-Circle® ULTRA	55-D 600BCUP
Bio-Circle® Aero	55-D 600BCAP

***INCLUDED: 1 DRUM (208L / 55 GAL.)***

Name	Order No.
Bio-Circle® L	55-D 600BCLD
Bio-Circle® ULTRA	55-D 600BCUD
Bio-Circle® Aero	55-D 600BCAD

# WALTER AND GRAYMILLS

PARTNERS IN SUPERIOR PARTS CLEANING SOLUTIONS

*Graymills parts washer systems perfectly complement Walter's cleaning and degreasing solutions.*

*We've got you covered! Combine Bio-Circle's array of parts washing liquids with Graymills' range of ultrasonic, automated or small parts washers for great results.*



## GRAYMILLS

Graymills order no. PH922

*Easy to use, it offers quick on-site cleaning of shop parts. This modular washer features an integrated sink and holding tank for efficient cleaning.*



## BIOMATIC

Graymills order no. BIO922

*Uses a bioremediation process involving hydrocarbon converting microbes to reduce solid waste and eliminate fluid disposal.*



## THE PERFECT MATCH!

*Get great results when paired with Walter's CB 100™, Bio-Circle® or STAR™ parts washing liquids.*

# INDUSTRIAL CLEANING AND DEGREASING

Bio-Circle's UNO™ family of cleaning and degreasing products are ideal for various applications conducted at room temperature. Save time and money with UNO™ and its Low Energy Surfactant (LES) technology which allows the product to achieve optimal results at ambient temperature.

## UNO™ S

Concentrated cleaner and degreaser

UNO™ S is a highly concentrated, powerful foaming cleaner/degreaser that lifts dirt and grease fast. Ideal for manual spraying applications. Excellent substitute for solvent-base cleaners.

**NSF category A1, registration #142608**

### Applications

- ▷ *Cleaning stainless steel equipment in food industry*
- ▷ *Removal of cutting fluids, stamping oils & grease*

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid, trigger sprayer	500 ml	16.9 oz.	53-G 033	L-143	12
Liquid	3.78 L	1 gal	53-G 035	L-143	1
Liquid	20 L	5.2 gal	53-G 037	L-143	1
Liquid	208 L	55 gal	53-G 038	L-143	1
Liquid	1000 L	264 gal	53-G 039	L-143	1



### Benefits

- ▷ *Versatile — can be used for a variety of applications*
- ▷ *Less chemical required per cleaning*
- ▷ *Creates a safer, healthier work environment*

### Features

- ▷ *Nonflammable, phosphate-free, VOC-free*
- ▷ *Foaming action for increased contact time*
- ▷ *Low Energy Surfactant Technology cleans at lower temperatures*
- ▷ *Dilutable up to 1:40*

## UNO™ SF

Concentrated foamless cleaner and degreaser

UNO™ SF is a highly concentrated, powerful foamless cleaner/degreaser that can cut through dirt and grease throughout your facility. Uses range from floor washing and pressure washing of large parts to automatic parts washers. Excellent substitute for solvent-base cleaners. **NSF category A1, registration #142609**

### Applications

- ▷ *Cleaning of stainless steel equipment*
- ▷ *Removal of cutting fluids, stamping oils & grease*

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Trigger sprayer	500 ml	16.9 fl.oz.	53-G 023	L-48	12
Liquid	3.78 L	1 gal	53-G 015	L-48	1
Liquid	20 L	5.2 gal	53-G 017	L-48	1
Liquid	208 L	55 gal	53-G 018	L-48	1
Liquid	1000 L	264,6 gal	53-G 019	L-48	1



### Benefits

- ▷ *Versatile—can be used for a variety of applications*
- ▷ *Less chemical required per cleaning*
- ▷ *Creates a safer, healthier work environment*

### Features

- ▷ *Nonflammable, VOC-free*
- ▷ *Low Energy Surfactant Technology cleans at lower temperatures*
- ▷ *Foamless for high-pressure or agitation cleaning systems*
- ▷ *Dilutable up to 1:40*

# STAR™ LINE OF CLEANERS AND DEGREASERS FOR AUTOMATED PARTS WASHERS

An excellent substitute to solvent-based cleaners! Save on energy and costs with Low Energy Surfactant (LES) Technology! These unique surfactants can clean and degrease effectively at lower temperatures, thus generating substantial energy savings. Lower the temperature of your automated industrial parts washers today!

## STAR™ 200

Concentrated alkaline cleaner/degreaser for parts washing systems

STAR™ 200 is a foamless demulsifying alkaline cleaner/degreaser specially formulated for cleaning iron, cast iron, steel, and stainless steel. Excellent at dissolving thick oil, grease, lubricants, and grime.

### Applications

- ▷ Hot parts washers, cleaning tunnels, ultrasonic baths, turntable washers, spray cabinets, and agitated tanks
- ▷ Maintenance, repair, and cleaning applications



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	20 L	5.2 gal	53-G 067	L-107	1
Liquid	208 L	55 gal	53-G 068	L-107	1
Liquid	1000 L	264 gal	53-G 069	L-107	1



### Benefits

- ▷ Less chemical required per cleaning
- ▷ Lasts longer
- ▷ Saves money
- ▷ Lowers energy costs

### Features

- ▷ Highly concentrated - dilutable up to 1:200
- ▷ Phosphate-free, VOC-Free
- ▷ Biodegradable
- ▷ Built-in corrosion inhibitors

## ALUSTAR™ 200

Automated parts washer cleaner and degreaser for non-ferrous alloys

Alustar™ 200 is a foamless demulsifying cleaner/degreaser that dissolves and removes thick oil, grease, lubricants, and grime from aluminum and other nonferrous alloys. Ideal for applications that are subject to strict cleaning specifications.

**NSF category A8, registration #145452**

### Applications

- ▷ Automated and semi-automated hot parts washers, cleaning tunnels, ultrasonic baths, turntable washers, spray cabinets, and agitated tanks
- ▷ Removing cutting oils after machining

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	3.78 L	1 gal	53-G 705	L-79	1
Liquid	20 L	5.2 gal	53-G 707	L-79	1
Liquid	208 L	55 gal	53-G 708	L-79	1
Liquid	1000 L	264 gal	53-G 709	L-79	1



### Benefits

- ▷ Less chemical required per cleaning
- ▷ Lasts longer
- ▷ Saves money
- ▷ Lowers energy costs

### Features

- ▷ Highly concentrated - dilutable up to 1:200
- ▷ Phosphate-free, VOC-Free
- ▷ Biodegradable
- ▷ Low Energy Surfactant Technology cleans at lower temperatures

## ALUSTAR 300™

Heavy-duty automated parts washer cleaner and degreaser for non-ferrous alloys

Alustar™ 300 is a foamless demulsifying cleaner/ degreaser that easily dissolves and removes persistent oil, grease, lubricants and grime from aluminum, steel, and stainless steel. Excellent for heavy-duty maintenance, repair, and operations cleaning applications.

**NSF category A8, registration #145453**

### Applications

- ▷ Automated and semi-automated hot parts washers, cleaning tunnels, ultrasonic baths, turntable washers, spray cabinets, and agitated tanks
- ▷ Heavy-duty maintenance, repair, and cleaning applications

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid	20 L	5.2 gal	53-G 757	L-106	1
Liquid	208 L	55 gal	53-G 758	L-106	1
Liquid	1000 L	264 gal	53-G 759	L-106	1



### Benefits

- ▷ Less chemical required per cleaning
- ▷ Lasts longer
- ▷ Saves money
- ▷ Lowers energy costs

### Features

- ▷ Highly concentrated - dilutable up to 1:200
- ▷ Phosphate-free, VOC-Free
- ▷ Biodegradable
- ▷ Built-in corrosion inhibitors

# Corrosion Inhibitor

For STAR and UNO family of aqueous cleaners

Provides additional corrosion protection when used with aqueous cleaners. Is concentrated, 100% active ingredients and is foamless.

### Applications

- ▷ Use with any UNO Cleaning Solution
- ▷ Add to cleaning solution and/or rinsing water



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer	950 ml	32.1 fl.oz.	53-G 001	L-56	1
Liquid	20 L	5.2 gal	53-G 927	L-56	1
Liquid	208 L	55 gal	53-G 928	L-56	1

# Defoamer additive

For STAR and UNO family of aqueous cleaners

Quick and permanent foam dissipation for aqueous cleaners. Comes concentrated with a suggested dilution rate of 0.5% to 1%.



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Sprayer	950 ml	32.1 fl.oz.	53-G 002	L-57	1
Liquid	20 L	5.2 gal	53-G 937	L-57	1

# Titration Kit

For use with STAR and UNO family of products

High concentration cleaning solutions such as the STAR™ and UNO™ family can be diluted with water to alter the cleaning strength of the product. With the titration kit, you can easily determine the exact level of concentration of your solution to maintain a high level of cleaning productivity.

### Applications

- ▷ For use with automated mechanical cleaning systems
- ▷ For immersion tank

Order No.	MSDS	Std. Pkg.
53-L 160	L-145 L-144	1

# Proportioning system

Offers a complete system for dispensing BIO-CIRCLE® bulk aqueous cleaners. It will automatically dilute the solution and fill spray bottles, buckets and other containers.

Order No.	Std. Pkg.
53-L 162	1



### Features

- ▷ Non-flammable. Not controlled under WHMIS 2015
- ▷ Solvent, phosphate and butyl-free. Biodegradable
- ▷ Protects steel parts and equipment from flash-rust



### Features

- ▷ Silicone-free
- ▷ Eliminates all foaming with water-based products



### Features

- ▷ 2 high flow (bucket feed)
- ▷ 2 low flow (bottle feed)
- ▷ Push button activated
- ▷ Metering tips from 350:1 to 3.5:1 at 3.5 GPM



# STAINLESS CLEANING

## E-NOX CLEAN™

High strength stainless steel cleaner

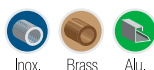
E-NOX CLEAN™ is a highly concentrated gel formulation cleaner that removes tarnish, rust, and mineral deposits and brightens surfaces. Outperforms abrasives while saving time and energy.

**NSF category A3, registration #142614**

### Applications

- ▷ *Brightening stained and exposed finishes*
- ▷ *Cleaning of food and pharmaceutical equipment*

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Gel, trigger sprayer	500 ml	16.9 fl.oz.	53-G 303	L-59	12
Liquid	3.78 L	1 gal	53-G 305	L-59	1
Liquid	20 L	5.2 gal	53-G 307	L-59	1
Liquid	208 L	55 gal	53-G 308	L-59	1



### Benefits

- ▷ *Fast acting*
- ▷ *Clean, precise application minimizes dripping*
- ▷ *Improves efficiency*

### Features

- ▷ *Nonflammable, VOC-free*
- ▷ *Safe for use on aluminum, chrome, and other nonferrous metals*
- ▷ *Free of nitric and hydrochloric acid*
- ▷ *Gel sticks to vertical surfaces*

# E-NOX SHINE™

Stainless steel cleaner and protector

E-NOX SHINE™ is a surface cleaner designed to remove light contaminants such as dust, light oils, and fingerprints prior to shipping. Creates a thin, invisible protective film to preserve the quality of your work until it reaches its final destination.

**NSF category P1, registration #131393**

### Applications

- ▷ *Removing oil, carbon, light dirt, and fingerprints*
- ▷ *Brightening and protecting indoor finishes*

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Trigger sprayer	500 ml	16.9 fl.oz.	53-G 403	L-102	12
Liquid	3.78 L	1 gal	53-G 405	L-102	1
Liquid	20 L	5.2 gal	53-G 407	L-102	1
Liquid	208 L	55 gal	53-G 408	L-102	1



### Benefits

- ▷ *Gives finished work a polished, flawless look*

### Features

- ▷ *Nonflammable, solvent-free, silicone-free, phosphate-free*
- ▷ *Uniform finish, no streaking*
- ▷ *NSF Registered*
- ▷ *Ready to use*

# RUST-REMOVAL AND BRIGHTENING

## BIO-RUST™

Non-caustic rust remover

BIO-RUST™ is a non-caustic that safely eliminates rust on all ferrous alloys. **NSF category A2, registration #146173**

### Applications

- ▷ Removal of rust and other metallic particles
- ▷ We recommend degreasing parts before using BIO-RUST™.



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Trigger sprayer	500 ml	16.9 fl.oz.	53-G 243	L-134	12
Liquid	20 L	5.2 gal	53-G 247	L-134	1
Liquid	208 L	55 gal	53-G 248	L-134	1

ACCESSORIES	Order No.
Chrome plated drum pump	53-L 116
Spout for 20 L square plastic pail	53-L 207
Spout for 208L plastic drum 2" NPT	53-L 209



### Benefits

- ▷ Reduces scrap rate
- ▷ Requires less time and effort than abrasives
- ▷ Safe to handle and store

### Features

- ▷ Removes rust without attacking surface material
- ▷ Slightly acidic pH range, non-caustic and biodegradable
- ▷ Nonflammable, phosphate-free, VOC-free
- ▷ Non-hazardous—OSHA and WHMIS compliant

Use with CleanBox® Dip for pre-soaking

Order no. 55-D 010



## POWER CLEANER 100™

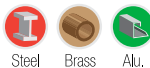
Rust and mineral remover plus brightener

POWER CLEANER 100™ is a highly concentrated cleaner/brightener that quickly breaks down rust, dissolves limescale, eliminates mineral deposits, and brightens metallic surfaces.

**NSF category A3, registration #141944**

### Applications

- ▷ Removing rust, limescale, and mineral deposits on sheet metal, metallic structures, heating coils, pumps, heat exchanger plates, and storage tanks
- ▷ Brightening metallic surfaces



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Trigger sprayer	500 ml	16.9 fl.oz.	53-G 253	L-23	12
Liquid	3.78 L	1 gal	53-G 255	L-23	1
Liquid	20 L	5.2 gal	53-G 257	L-23	1

ACCESSORIES	Order No.
Spout for 20 L square plastic pail	53-L 207
Empty refillable trigger sprayer for POWER CLEANER 100	53-L 309



### Benefits

- ▷ Fast acting
- ▷ Easier and more efficient than manual rust removal
- ▷ No need to salvage rusted parts or equipment

### Features

- ▷ Does not contain nitric, hydrofluoric or hydrochloric acid
- ▷ Fully restores dull or tarnished metal surfaces
- ▷ Can be diluted up to 1:40 with water

# PAINT, INK, GLUE AND ADHESIVE CLEANING

## SC 400™

High strength citrus solvent

Formulated with citrus peel extracts (not aerosol), SC 400™ is a heavy duty, powerful, fast-acting alternative to petroleum-based solvent cleaners. Easily removes adhesives, glues, sealants, rubber residues, tar, paint, ink, pen marks, grease, lubricants, and oils.

### Applications

- ▷ *Cleaning machine parts, tools, pumps, gears*
- ▷ *Not for use on plastics, rubber, and other solvent-sensitive materials*



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	11.5 fl.oz.	53-G 512	L-68	12
Trigger sprayer	500 ml	16.9 fl.oz.	53-G 513	L-68	12
Liquid	3.78 L	1 gal	53-G 516	L-68	1
Liquid	20 L	5.2 gal	53-G 517	L-68	1
Liquid	200 L	52.8 gal	53-G 518	L-68	1

ACCESSORIES	Order No.
Industrial pump sprayer for SC 400, PRO CLEAN, CB 100, AF-PL, FT 200, FT 100 and OMNI.	53-L 120
Spout for 20 L round metal pail and 200L metal drum 3/4" NPT	53-L 208
Empty refillable trigger sprayer for SC 400	53-L 313
Bio-Circle Air Drying Gun	55-B 085



### Benefits

- ▷ *Cuts through contaminants quickly and effectively*
- ▷ *Slow drying formula covers larger surface areas*
- ▷ *Safer than more flammable alternatives*

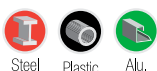
### Features

- ▷ *Formulated with 100% natural and renewable ingredients*
- ▷ *Low residue, slow drying*
- ▷ *High flashpoint 113°F (45°C)*

## PRO CLEAN™

High strength natural solvent

Made from bio-renewable extracts, PRO CLEAN™ is a powerful, 100% concentrated solvent that removes hard-to-clean contaminants. Its Nature Boost™ formula quickly and easily removes paint, ink, adhesives, anti-corrosion waxes, resins and tar. **NSF category K3, registration number 146172**



Description	Size		Order No.	MSDS
	Metric	US Gal		
Trigger sprayer	500 ml	16.9 oz.	53-G 523	L-169
Liquid	3.78 L	1 gal	53-G 525	L-169
Liquid	20 L	5.2 gal	53-G 527	L-169
Liquid	208 L	55 gal	53-G 528	L-169



### Benefits

- ▷ *Creates a safer, more pleasant work environment*
- ▷ *Safer to handle than toxic and volatile solvents*
- ▷ *Improves sustainability*
- ▷ *Reduces workplace liability*

### Features

- ▷ *Formulated with natural and bio-renewable ingredients*
- ▷ *Test before use on rubber*
- ▷ *Non-corrosive*
- ▷ *High-strength formulation—fast acting, very effective*

# PRE-PRIMING PRE-SHIPPING

## FT 100™

Stainless steel and glass surface cleaner

FT 100™ is a surfactant-free, fast-drying cleaning agent that removes light oil pollution, dust, fingerprints, felt pen, and pencil residues from lacquered surfaces, plastics, glass, mirrors, metals, and all highly polished glossy surfaces.

**NSF category A1, registration #154672**

### Applications

- ▷ Final step before any treatment in process (painting, varnish, sealing, gluing, coating, etc.)
- ▷ Final step before showcasing a final product

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	400 ml	13.5 oz.	53-G 182	L-172	12
Sprayer	500 ml	16.9 oz.	53-G 183	L-167	12
Liquid	20 L	5.2 gal	53-G 187	L-167	1
Liquid	208 L	55 gal	53-G 188	L-167	1



Plastic



Glass and Mirror



All Metals



### Benefits

- ▷ Leaves no residue, streaks, or stains
- ▷ Ready to use

### Features

- ▷ One product for multiple processes and surfaces
- ▷ Fast acting, fast drying
- ▷ VOC compliant (per CARB 310)

## FT 200™

Fast drying surface preparation cleaner

FT 200™ prepares metallic surfaces for painting, priming, coating, bonding, corrosion protection, metalizing, welding, and a variety of other processes. Evaporates after it's wiped off surfaces. Lasts 7x longer than traditional fast-evaporating surface preparation solvents such as acetone.

**NSF category A1, registration #142612**

### Applications

- ▷ Preparing metallic surfaces prior to coating
- ▷ Removal of light contaminants such as processing oils, anti-corrosion oils, and light waxes

Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Liquid, trigger sprayer	500 ml	16.9 oz.	53-G 173	L-128	12
Liquid	20 L	5.2 gal	53-G 177	L-128	1
Liquid	208 L	55 gal	53-G 178	L-128	1



Plastic



Glass and Mirror



Alu.



All Metals



### Benefits

- ▷ Increased surface coverage
- ▷ Improves adhesion quality in coating applications
- ▷ A safer alternative to traditional solvents

### Features

- ▷ Phosphate free and biodegradable
- ▷ Low VOC (7% content), slow evaporation rate, and minimal odor
- ▷ High flash point
- ▷ Residue-free after wiping

# CLEANING, LUBRICATING AND TEMPORARY PROTECTION

## OMNI™

Cleaner/lubricant/protector (CLP)

Multifunctional maintenance cleaner/lubricant/protector. Excellent penetrating and lubricating capability. Protects surfaces from oxidation.

**NSF category A8, registration #142610**

### Applications

- ▷ Dissolving light rust and graphite
- ▷ Loosening rusted and seized hardware

### Benefits

- ▷ Cleans, penetrates, lubricates, and protects in one easy step
- ▷ Versatile—can be used for multiple maintenance applications
- ▷ Reduces rework
- ▷ Creates a safer, healthier work environment

### Features

- ▷ Nonflammable, silicone-free, Teflon-free
- ▷ High flash point 257 °F (125 °C)
- ▷ Dielectric strength 350 Volts/Mil, dielectric breakdown voltage 35 000 Volts as per ASTM D877-13, procedure A
- ▷ Pleasant scent—no harsh fumes or vapors



Description	Size		Order No.	MSDS	Std. Pkg.
	Metric	US Gal			
Aerosol	480 ml	16.2 fl.oz.	53-X 002	L-73	12
Trigger sprayer	500 ml	16.9 oz.	53-X 003	L-74	12
Liquid	3.78 L	1 gal	53-X 005	L-74	1
Liquid	20 L	5.2 gal	53-X 007	L-74	1
Liquid	208 L	55 gal	53-X 008	L-74	1
Liquid	1000 L	264.6 gal	53-X 009	L-74	1

### ACCESSORIES

	Order No.
Industrial pump sprayer for SC 400, PRO CLEAN, CB 100, AF-PL, FT 200, FT 100 and OMNI.	53-L 120
Spout for 20 L square plastic pail	53-L 207
Spout for 208L plastic drum 2" NPT	53-L 209
Empty refillable trigger sprayer for OMNI	53-L 314
Bio-Circle Microfiber / Pack of 10	57-M 001

# AIR FORCE AF-OMNI™

AF-OMNI is a system with a base unit that automatically dispenses AF-OMNI liquid and compressed air into refillable spray cans. Save money by buying in bulk and reduce costs associated with the disposal of aerosol cans, all while reducing your environmental impact.



### Benefits

- ▷ Eliminates aerosol disposal costs
- ▷ Reduces environmental impact
- ▷ Improves sustainability

*No more disposing  
of hazardous  
aerosol cans*



# AIR FORCE AF-OMNI™ START-UP PACKAGES

## Air Force AF-OMNI™ 20 L / 5.3 gal.

**Includes:**

- ▷ Use of Air Force OMNI station
- ▷ 1 x 53-X 007 OMNI 20 L / 5.3 gal
- ▷ 1 x 53-M 058 pail adaptor
- ▷ 6 x 53-M 132 refillable bottles
- ▷ 6 x 53-M 054 variable spray valves

**Order No.:** 53-M 012AF0BB



## Air Force AF-OMNI™ 208 L / 55 gal.

**Includes:**

- ▷ Use of Air Force OMNI station
- ▷ 1 x 53-X 008 OMNI 208 L / 55 gal
- ▷ 1 x 53-M 038 drum adaptor
- ▷ 1 x 53-M 025 safety valve
- ▷ 6 x 53-M 132 refillable bottles
- ▷ 6 x 53-M 054 variable spray valves

**Order No.:** 53-M 012AF0D



## AF-OMNI™

Refillable sprayer

Durable and light weight aluminum OMNI™ sprayer comes with an OMNI™ specific label to clearly identify the contents and ensure full workplace compliance.

Fill capacity	Operating pressure	Order No.
400 ml / 13.5 oz	90 - 125 psi	53-M 132



53-M 010

	Order No.
<b>Optional nozzles</b>	
Wide spray	53-M 022
Long extension tube	53-M 052
Short extension tube	53-M 053
Variable spray	53-M 054
<b>Accessories</b>	
Air refilling station	53-M 010
Air nozzle	53-M 015
Replacement valve kit (includes 2 valves and 2 spray tips)	53-M 030
Brass screw cap	53-M 037
Replacement filling valve	53-M 039
Pail adaptor	53-M 041
Drum adaptor	53-M 038
Safety valve	53-M 025

# ACCESSORIES





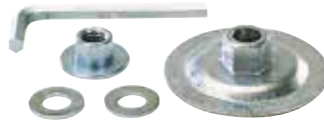
## Threaded throw-away adaptors

Description	Order No.
For 1/8" wheels (5/8"NC)	08-B 002
For 1/4" wheels (5/8"NC)	08-B 001
For 1/2" wheels (5/8"NC)	08-B 003



## Reusable adaptor kit

Description	Order No.
For depressed center wheels	08-B 031



## Mandrels for ZIP wheels

Description	Order No.
<b>Flush mandrels with 1/4" shaft</b>	
For 2 and 3" wheels, 1/4" and 3/8" arbor	11-L 007
For 2" wheels, 5/16" arbor	11-L 001
For 3" and 4" wheels, 1/4" arbor	11-L 006
For 3" and 4" wheels, 3/8" arbor	11-L 003
<b>General purpose mandrels with 1/4" shaft</b>	
For 2" wheels, 3/8" arbor	11-L 008
For 2" wheels, 5/16" arbor	11-L 002
For 3" and 4" wheels, 3/8" arbor	11-L 004
<b>with 5/16" shaft</b>	
For 3" and 4" wheels, 3/8" arbor	11-L 005



## Mandrel for finishing wheels

Description	Order No.
Plastic, 8 mm shaft, self-expanding, flush mounting for 1" thick wheels	07-C 003



## 1/4" shaft for TWIST backing pads

Description	Order No.
with 1/4"-20 thread	
For 2" and 3" pads	04-X 001



## Mounting accessories for FX wheels

Mandrels for use on straight grinders and drills

Description	Order No.
<b>For use with 4" FX wheels</b>	
1/4" shaft	07-X 004
8 mm shaft	07-X 003
<b>For use with 6" FX wheels</b>	
1/4" shaft	07-X 006
8 mm shaft	07-X 005
<b>Extension mandrels for use on angle grinders</b>	
M14 x 2.0 thread	07-C 005
5/8"-11 thread	07-C 006



Two wheels can be mounted on each mandrel.

## Wheel dressers

Description	Order No.
<b>For bench grinder wheels</b>	
Standard	12-E 001
Heavy-duty	12-E 002
<b>Replacement wheels</b>	
Set for 12-E 001	12-E 004
Set for 12-E 002	12-E 005



## Extra clamping nuts



Description	Order No.
<b>For 4" backing pads</b>	
3/8"-24	15-D 015
<b>For 4 1/2" and 5" backing pads</b>	
M10 x 1.25	15-D 010
5/8"-11	15-D 014
<b>For 6" and 7" backing pads</b>	
5/8"-11	15-H 014
<b>For 7" Turbo Action backing pad</b>	
5/8"-11	15-M 014

## SPACER WASHERS

Description	Order No.
For grinders with: 5/8"-11 spindle	07-Q 001
For grinders with: M14x2.0 spindle	07-Z 005

## Wire brush adaptors and mandrels

Description	Order No.
<b>Use these threaded adaptors to convert brushes with 5/8"-11 arbor</b>	
To M10 x 1.25 female	13-D 001
To M10 x 1.5 female	13-D 002
To 3/8"-24 female	13-D 003
To 3/8"-16 female	13-D 007
<b>Use these mandrels for double-sided knot-twisted mounted brushes.</b>	
To fit with 13-C 303 (3/8" X 1/4")	13-D 008
To fit with 13-C 404 (1/2" X 1/4")	13-D 009



## Clamping flanges

Description	Order No.
Clamping flanges set to mount 9" cut-off wheels on 5/8"-11 spindles	30-B 022



## SPIN-ON performance kit

Description	Order No.
Contains 1 universal clamping nut holder for all types of clamping flanges. Allows quick and easy storage of clamping flange when not in use. Also includes 2 silicone rings.	30-B 024



## Mounting flanges

Description	Order No.
5/8"-11 clamping nut for 6150, 6161, 6170, 6190, 6255, 6260, 6350 and 6360.	30-B 037
Thick backing flange for a flush fit and minimal exposure of spindle beyond the clamping nut for Walter grinders with: 5/8"-11 spindles	30-B 017



## Quick release backing flange

Description	Order No.
For quick and easy removal of wheel	30-B 057
Special heat resistant silicone ring for retention of the back flange to the spindle. Package of 10.	30-B 027
Thick backing flange for a flush fit and minimal exposure of spindle beyond the clamping nut for Walter grinders with: M14x2.0 spindles	30-B 016
Quick nut 5/8"-11	30-B 020



## Flanges for flush mounting wheels

Description	Order No.
Thick backing flange for a flush fit and minimal exposure of spindle beyond the clamping nut for Walter grinders with: 5/8"-11 spindles	30-B 017
<b>Flush mounting set (includes special flange and clamping nut)</b>	
Complete set for a flush fit and minimal spindle exposure beyond the clamping nut, for other brands of grinders with: 5/8"-11 spindles	30-B 021
<b>ErgoFlex mounting set</b>	
5/8"-11 spindle	30-B 030



## Spacer washers

Description	Order No.
For grinders with: 5/8"-11 spindle	07-Q 001
For grinders with: M14x2.0 spindle	07-Z 005



## Pin keys

Description	Order No.
Pin key for clamping nuts: 15-H 009, 15-H 010, 15-H 011, 15-H 012, 15-D 013 and 15-H 024	15-H 021
For all other clamping nuts	48-Z 148



## Side handles

Description	Order No.
4-1/2", 5" and 6"	32-B 027
7" and 9"	48-M 401
Quick-Step Big Buff	48-A 054
Line-Mate III	48-A 034
6145 straight grinder	48-L 555



## Nut holder

Description	Order No.
Thread your clamping nut directly on your grinder when not in use. Prevents losses.	30-B 023



## Carrying case

Description	Order No.
Sturdy steel carrying case with protective foam and ample room for accessories. For 6141, 6145, 6150, 6161, 6255, and 6260 grinders.	30-B 010



## Flexible shaft

Description	Order No.
For delicate finishing work with 6141 and 6145. 1/4" collet, 5 ft. long.	30-B 050



## Bench mount

Description	Order No.
For use with flexible shaft, for 6141 and 6145.	30-B 002



## Replacement collets

Size	Order No.
<b>For 6141 and 6145.</b>	
1/4"	30-B 046
1/8"	30-B 047
6 mm	30-B 048



## Special "Top-Up" lubricants

Description	Order No.
For models: 6145, 6150, 6161, 6170, 6190, 6255, 6260, 6265, 6268, 6330, 6350, 6352, 6360 and 6362.	48-Z 392



## Carbon brush Diamond brush seating stick

Order No.
48-Z 449



## Spouts

Description	Order No.
Spout for 5 L / 1.3 gal plastic pail	53-L 113
Spout for 20 L / 5.3 gal square plastic pail	53-L 207
Spout for 208 L plastic drum and 200 L / 55 gal metal drum, 2" NPT	53-L 209
Spout for 200 L metal drum, 3/4" NPT	53-L 210

## Accessories for air grinders

Description	Order No.
<b>Use these adaptors to convert accessories with 5/8"-11 arbors</b>	
To 3/8"-16 (male)	13-D 004
To 5/16"-24 (male)	13-D 005
<b>Use these extensions to mount accessories</b>	
With 3/8"-24 on spindles with 3/8"-24 thread	08-B 006
With 3/8"-24 on spindles with 7/16"-20 thread	08-B 005
With 5/8"-11 on spindles with 1/2"-13 thread	08-B 008
<b>Clamping nut for use with above extension 3/8"-24 thread, to mount grinding wheels</b>	
With 5/8" arbor	08-B 007
<b>Mounting flange to mount 4" type 27 grinding wheels on air grinders</b>	
with 3/8"-24 spindle	08-B 004



13-D 004



13-D 005



08-B 006



08-B 005



08-B 008



08-B 007



08-B 004

## Cutting guard

Size	Order No.
<b>Designed to make all cutting operations even safer.</b>	
3"	30-B 051
4 1/2"	30-B 062
5"	30-B 063
6"	30-B 064
7"	30-B 065
9"	30-B 066



## WALTER INDUSTRIAL GLOVES

Protective, sleek, and tight fitting for comfort. Walter's newly-designed work gloves are made to last in the toughest applications. They are made of 100% Black Goatskin leather, with neoprene inserts that reduce vibration. The thumb curve is made with Kevlar™, a natural anti-slip solution. Simply put, these gloves are the toughest and most comfortable for demanding industrial applications.



Size	Order No.
Large	30-B 093
Extra-Large	30-B 095

## REFILLABLE TRIGGER SPRAYERS

Sprayers equipped with precision mechanism – guarantees minimal constant spray mist / no dripping. Clearly identified with product specific labels showing product features, GHS information and directions for use.



Description	Size		Order No.	Std. Pkg.
	Metric	US Gal		
E-Weld	500 ml	16.9 oz	53-L 321	1
E-Weld 3	500 ml	16.9 oz	53-L 320	1
E-Weld 4	500 ml	16.9 oz	53-L 338	1



## Bio-Circle® POWERCLOTH™

- ▷ Ideal for streak free clean-ups
- ▷ Non-abrasive, won't scratch mirror finish, paint or clear coat



Description	Order No.	Std. Pkg.
Bag	57-M 001	10
Box	57-M 005	50
Case	57-M 010	100

## REFILLABLE TRIGGER SPRAYERS

Practical and sturdy, all bottles are clearly identified with product specific labels showing product features, hazard information and directions for use. High-quality, resistant trigger for longest life. Transparent bottle allows you to see product level. Can be refilled hundreds of times.



Description	Size		Order No.	Std. Pkg.
	Metric	US Gal		
UNO S F	950 ml	32.1 oz	53-L 158	1
POWER CLEANER 100	500 ml	16.9 oz	53-L 309	1
SC 400	500 ml	16.9 oz	53-L 313	1
OMNI	500 ml	16.9 oz	53-L 314	1
UNO S	500 ml	16.9 oz	53-L 315	1
E-NOX SHINE	500 ml	16.9 oz	53-L 316	1
FT 200	500 ml	16.9 oz	53-L 322	1
UNO SV	500 ml	16.9 oz	53-L 336	1
E-NOX CLEAN	500 ml	16.9 oz	53-L 337	1
PRO CLEAN	500 ml	16.9 oz	53-L 341	1
SLAP SHOT	500 ml	16.9 oz	53-L 311	1
HANG-ON	500 ml	16.9 oz	53-L 331	1
BOLT-OUT	500 ml	16.9 oz	53-L 332	1
CB 100	500 ml	16.9 oz	53-L 342	1
CB 100 ALU	500 ml	16.9 oz	53-L 343	1

## INDUSTRIAL PUMP SPRAYERS

Rugged and convenient sprayers designed to effectively dispense a variety of Bio-Circle® cleaners and lubricants.

The spray pattern can easily be adjusted from a pin pointjet for accurate product dispensing to a wide fan for fast surface coverage. Viton gaskets and corrosion-proofspring for optimal chemical resistance. These thick walled polyethylene bottles feature a wide neck for easy filling hundreds of times.



Description	Size		Order No.	Std. Pkg.	Std. Pkg.
	Metric	US Gal			
<b>Industrial pump sprayer for SC 400, PRO CLEAN, CB 100, AF-PL, FT 200 and OMNI.</b>					
For SC 400, PRO CLEAN, CB 100, AF-PL, FT 200, OMNI	900 ml	30 oz	53-L 120	1	1

ACCESSORIES	Order No.
Replacement Viton gasket set	53-L 100
Replacement spray nozzle (without gaskets)	53-L 104
Replacement swirl piece (without gaskets)	53-L 114

# BIO-CIRCLE® PARTS CLEANING SYSTEM ACCESSORIES

## Parts washing basket

- 9" dia x 8 1/4" high
- 1/4" holes

55-B 004



## Filter cartridge

- Reusable 350 micron 55-B 011
- Reusable 200 micron 55-B 038
- Reusable 150 micron 55-B 037
- Reusable 100 micron 55-B 036
- Disposable 100 micron 55-B 012
- Disposable 200 micron 55-B 021



## Bio-Circle® scraper

55-B 063



## Angled flow through brush

55-B 007



## Disposable filter bags for Bio-Circle® machines

- 50 micron 55-B 041
- 100 micron 55-B 042
- 200 micron 55-B 043



## Bio-Circle® Air Drying Gun

55-B 085



## Sink lid

- For MAXI
- 55-B 047



## Replacement flow-through brush

55-B 005



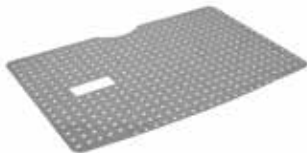
## Filter housing spanner

- For MAXI
- 55-B 035



## Stainless steel sink insert

- For MAXI
- 55-B 048



## Small industrial parts washing basket

55-B 087



## Casters

- For MAXI
- 55-B 049



# SPROUTS

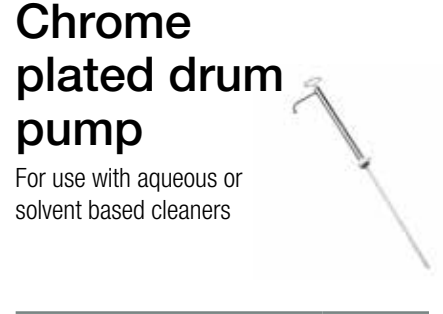
**Tech tip!**  
 When transferring flammable liquids, always ensure containers are grounded and follow normal safety rules.

Description	Order No.
Spout for 5 L / 1.3 gal plastic pail	53-L 113 *
Spout for 20 L / 5.3 gal square plastic pail	53-L 207 *
Spout for 20 L / 5.3 gal round metal pail (plastic spout)	53-L 211 *
Spout for 20 L / 5.3 gal round metal pail and 200 L / 55 gal metal drum, (metal spout), 3/4" NPT	53-L 208 *
Spout for 208 L plastic drum and 200 L / 55 gal metal drum, 2" NPT	53-L 209
Spout for 200 L metal drum, 3/4" NPT	53-L 210 *

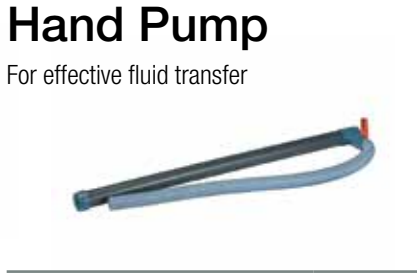
\* Allows to fill 500 ml trigger sprayer bottles or any other larger container directly.



Description	Order No.
Delivers 12 oz per stroke.	53-L 115



Description	Order No.
Delivers 8 oz per stroke	53-L 116



Description	Order No.
Use with Bio-Circle®	55-B 051

# THE **WALTER** **VENDING** PROGRAM



OPTIMIZED **CHOICE**

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OPTIMIZED **QUANTITIES**

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OPTIMIZED **INVENTORY**

---

OPTIMIZED **SAVINGS**

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# THE WALTER VENDING PROGRAM

The right tool at the click of a button.  
Get the convenience of



READY-TO-GO, PRE-PACKED UNITS  
ROUND-THE-CLOCK AVAILABILITY

**Get our vending program to work  
for you and benefit from:**



- ▷ Pre-packed products
- ▷ Convenient single-pack quantities
- ▷ Vast product choice
- ▷ Optimized inventory

See back cover for contact details

## WALTER PRODUCTS AVAILABLE

PACKS OF 5



### ZIPCUT™ TYPE 1

Order No.	Description	Std. Pkg.	Std. Ctn.
11T042V	4-1/2X3/64 ZIPCUT WHEELS	5	80
11T052V	5X3/64X7/8 ZIPCUT WHEEL	5	80
11T062V	6X3/64X7/8 ZIPCUT WHEEL	5	40



### ZIP XXXTREME™

Order No.	Description	Std. Pkg.	Std. Ctn.
11T044V	4-1/2X3/64 ZIP XXXTREME WHEELS	5	20
11T054V	5X3/64X7/8 ZIP XXXTREME WHEELS	5	80



### ZIPCUT™ TYPE 27

Order No.	Description	Std. Pkg.	Std. Ctn.
11T142V	4-1/2X3/64 ZIPCUT TYPE 27	5	80
11T152V	5X3/64X7/8 ZIPCUT TYPE 27	5	80
11T162V	6X3/64X7/8 ZIPCUT TYPE 27	5	80



### ZIP TITAN™

Order No.	Description	Std. Pkg.	Std. Ctn.
11H042V	4-1/2X3/64 ZIP TITAN WHEELS	5	80
11H052V	5X3/64 ZIP TITAN WHEELS	5	80
11H062V	6X3/64 ZIP TITAN WHEELS	5	40



PACKS OF 5



### ZIP+ XTRA™ TYPE 1

Order No.	Description	Std. Pkg.	Std. Ctn.
11T242V	4-1/2 x 1/16 ZIP + WHEEL	5	80
11T252V	5 X 1/16 ZIP + WHEEL	5	80
11T262V	6 X 1/16 ZIP + WHEEL	5	40



### ZIP+ XTRA™ TYPE 27

Order No.	Description	Std. Pkg.	Std. Ctn.
11T453V	4-1/2 X 1/16 ZIP+ TYPE 27	5	80
11T503V	5 X 1/16 ZIP+ WHEELS TYPE 27	5	80
11T603V	6 X 1/16 ZIP+ TYPE 27	5	40



### TOUGH CUT™

Order No.	Description	Std. Pkg.	Std. Ctn.
11R042V	4-1/2X3/32 A30 TOUGH CUT	5	40
11R052V	5X3/32X7/8 A30 TOUGH CUT	5	40
11R062V	6X3/32X7/8 A30 TOUGH CUT	5	20



### ZIP ONE™ TYPE 1

Order No.	Description	Std. Pkg.	Std. Ctn.
11T542V	4-1/2x1/32 ZIP ONE WHEEL	5	80
11T552V	5"x 1/32" ZIP ONE WHEEL	5	80



### ZIP ONE™ TYPE 27

Order No.	Description	Std. Pkg.	Std. Ctn.
11T642V	4-1/2x1/32 ZIP ONE TYPE 27	5	80
11T652V	5"x 1/32" ZIP ONE TYPE 27	5	80
11T662V	6"x 1/32" ZIP ONE TYPE 27	5	40



### ZIP STAINLESS™ TYPE 1

Order No.	Description	Std. Pkg.	Std. Ctn.
11F042V	4-1/2X3/64 ZIP STAINLESS	5	80
11F052V	5"X3/64 ZIP STAINLESS	5	80
11F062V	6"X3/64 ZIP STAINLESS	5	40



### ZIP STAINLESS™ TYPE 27

Order No.	Description	Std. Pkg.	Std. Ctn.
11F142V	4-1/2X3/64 ZIP ST TYPE 27	5	80
11F152V	5X3/64 ZIP STAINLESS TYPE 27	5	80
11F162V	6X3/64 ZIP STAINLESS TYPE 27	5	40



### ZIP ALU™ TYPE 1

Order No.	Description	Std. Pkg.	Std. Ctn.
11U042V	4-1/2X3/64 ZIP ALU WHEEL	5	80
11U052V	5X3/64 ZIP ALU WHEEL	5	80
11U062V	6 X 3/64 ZIP ALU WHEEL	5	40



### ZIP ALU™ TYPE 27

Order No.	Description	Std. Pkg.	Std. Ctn.
11U142V	4-1/2X3/64 ZIP ALU TYPE 27	5	80
11U152V	5X3/64 ZIP ALU TYPE 27	5	80
11U162V	6 X 3/64 ZIP ALU TYPE 27	5	40



### ZIP ALU™ TYPE 1

Order No.	Description	Std. Pkg.	Std. Ctn.
11U303V	3X1/32X3/8 ALU C/O WHEEL	5	40

# THE WALTER VENDING PROGRAM

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## COMBO ZIP™

Order No.	Description	Std. Pkg.	Std. Ctn.
11T842V	4-1/2X5/64 COMBO ZIP	5	80
11T852V	5X5/64 COMBO ZIP	5	80
11T862V	6X5/64 COMBO ZIP	5	40



## ZIP™ 2" TYPE 1

Order No.	Description	Std. Pkg.	Std. Ctn.
11L202V	2X1/32X1/4 ZIP CUT-OFF WHEELS	5	40
11L203V	2X1/32X3/8 ZIP CUT-OFF WHEELS	5	40
11L211V	2X1/16X5/16 ZIP CUT-OFF WHEELS	5	40
11L212V	2X1/16X1/4 ZIP CUT-OFF WHEELS	5	40
11L213V	2X1/16X3/8 ZIP C/O WHEEL	5	40
11L221V	2X1/8X5/16 ZIP CUT-OFF WHEELS	5	40
11L223V	2X1/8X3/8 ZIP C/O WHEEL	5	40
11L231V	2X1/4X5/16 ZIP GR WHEELS	5	40
11L233V	2X1/4X3/8 ZIP C/O WHEEL	5	40
11L251V	2X1/2X5/16 ZIP GR WHEELS	5	40
11L253V	2X1/2X3/8 ZIP C/O WHEEL	5	40



## ZIP™ 2 1/2" TYPE 1

Order No.	Description	Std. Pkg.	Std. Ctn.
11L262V	2.5X1/16X1/4 ZIP CUT-OFF WHEEL	5	40
11L263V	2.5X1/32X3/8 ZIP CUT-OFF WHEEL	5	40



## ZIP™ 3" TYPE 1

Order No.	Description	Std. Pkg.	Std. Ctn.
11L302V	3X1/32X1/4 ZIP C/O WHEELS	5	40
11L303V	3X1/32X3/8 ZIP C/O WHEELS	5	40
11L308V	3X1/32X3/8 TYPE 27	5	40
11L312V	3X1/16X1/4 ZIP C/O WHEELS	5	40
11L313V	3X1/16X3/8 ZIP CUT-OFF WHEELS	5	40
11L316V	3X1/16X1/4 ZIP C/O WHEELS	5	40
11L317V	3X1/16X3/8 ZIP C/O WHEELS	5	40
11L322V	3X1/8X1/4 ZIP C/O WHEELS	5	40
11L323V	3X1/8X3/8 ZIP CUT-OFF WHEELS	5	40
11L333V	3X1/4X3/8 ZIP GR WHEELS	5	20
11L353V	3X1/2X3/8 ZIP GR WHEELS	5	20

## ZIP™ 4" TYPE 1

Order No.	Description	Std. Pkg.	Std. Ctn.
11L402V	4X1/32X1/4 ZIP C/O WHEELS	5	40
11L403V	4X1/32X3/8 ZIP C/O WHEELS	5	40
11L405V	4X1/32X5/8 ZIP C/O WHEELS	5	40
11L406V	4X1/32X1/4 ZIP C/O WHEELS	5	40
11L408V	4X1/32X3/8 ZIP C/O WHEELS	5	40
11L412V	4X1/16X1/4 ZIP C/O WHEELS	5	40
11L413V	4X1/16X3/8 ZIP C/O WHEELS	5	40
11L415V	4X1/16X5/8 ZIP C/O WHEELS	5	40
11L417V	4X1/16X3/8 ZIP C/O WHEELS	5	40



## COOLCUT XX™

Order No.	Description	Std. Pkg.	Std. Ctn.
15X452V	4-1/2 GR24 COOLCUT XX DISCS	5	50
15X453V	4-1/2 GR36 COOLCUT XX DISCS	5	50
15X455V	4-1/2 GR50 COOLCUT XX	5	50
15X456V	4-1/2 GR60 COOLCUT XX DISCS	5	50
15X458V	4-1/2 GR80 COOLCUT XX DISCS	5	50
15X460V	4-1/2 GR100 COOLCUT XX	5	50
15X462V	4-1/2 GR120 COOLCUT XX DISCS	5	50
15X473V	4.5"GR36 COOLCUT XX/Q. CHANGE	5	50
15X475V	4.5"GR50 COOLCUT XX/Q. CHANGE	5	50
15X476V	4.5"GR60 COOLCUT XX/Q. CHANGE	5	50
15X478V	4.5"GR80 COOLCUT XX/Q. CHANGE	5	50
15X482V	4.5"GR120 COOLCUT XX/Q. CHANGE	5	50
15X502V	5" GR24 COOLCUT XX DISCS	5	50
15X503V	5" GR36 COOLCUT XX DISCS	5	50
15X505V	5" GR50 COOLCUT XX	5	50
15X506V	5" GR60 COOLCUT XX DISCS	5	50
15X508V	5" GR80 COOLCUT XX DISCS	5	50
15X510V	5" GR100 COOLCUT XX	5	50
15X512V	5" GR120 COOLCUT XX DISCS	5	50
15X523V	5" GR36 COOLCUT XX/Q. CHANGE	5	50
15X525V	5" GR50 COOLCUT XX/Q. CHANGE	5	50
15X526V	5" GR60 COOLCUT XX/Q. CHANGE	5	50
15X528V	5" GR80 COOLCUT XX/Q. CHANGE	5	50
15X532V	5" GR120 COOLCUT XX/Q. CHANGE	5	50
15X602V	6" GR24 COOLCUT XX DISCS	5	50
15X603V	6" GR36 COOLCUT XX DISCS	5	50
15X605V	6" GR50 COOLCUT XX DISCS	5	50
15X606V	6" GR60 COOLCUT XX DISCS	5	50
15X608V	6" GR80 COOLCUT XX DISCS	5	50
15X610V	6" GR100 COOLCUT XX DISCS	5	50
15X612V	6" GR120 COOLCUT XX DISCS	5	50
15X622V	6" GR24 COOLCUT XX/Q. CHANGE	5	50
15X623V	6" GR36 COOLCUT XX/Q. CHANGE	5	50
15X625V	6" GR50 COOLCUT XX/Q. CHANGE	5	50
15X626V	6" GR60 COOLCUT XX/Q. CHANGE	5	50
15X628V	6" GR80 COOLCUT XX/Q. CHANGE	5	50
15X630V	6" GR100 COOLCUT XX/Q. CHANGE	5	50
15X632V	6" GR120 COOLCUT XX/Q. CHANGE	5	50

PACKS OF 5



**TOPCUT™**

Order No.	Description	Std. Pkg.	Std. Ctn.
15P452V	4-1/2" GR24 TOPCUT DISCS	5	50
15P453V	4-1/2" GR36 TOPCUT DISCS	5	50
15P456V	4-1/2" GR60 TOPCUT DISCS	5	50
15P458V	4-1/2" GR80 TOPCUT DISCS	5	50
15P502V	5" GR24 TOPCUT SAND DISCS	5	50
15P503V	5" GR36 TOPCUT SAND DISCS	5	50
15P506V	5" GR60 TOPCUT SAND DISCS	5	50
15P508V	5" GR80 TOPCUT SAND DISCS	5	50



**COOLCUT™**

Order No.	Description	Std. Pkg.	Std. Ctn.
15C452V	4-1/2 GR24 COOLCUT DISCS	5	50
15C453V	4-1/2 GR36 COOLCUT DISCS	5	50
15C454V	4-1/2 GR40 COOLCUT DISCS	5	50
15C455V	4-1/2 GR50 COOLCUT DISCS	5	50
15C456V	4-1/2 GR60 COOLCUT DISCS	5	50
15C458V	4-1/2 GR80 COOLCUT DISCS	5	50
15C460V	4-1/2 GR100 COOLCUT DISCS	5	50
15C462V	4-1/2 GR120 COOLCUT DISCS	5	50
15C502V	5" GR24 COOLCUT SAND DISCS	5	50
15C503V	5" GR36 COOLCUT SAND DISC	5	50
15C504V	5" GR40 COOLCUT SAND DISCS	5	50
15C505V	5" GR50 COOLCUT SAND DISC	5	50
15C506V	5" GR60 COOLCUT SAND DISCS	5	50
15C508V	5" GR80 COOLCUT SAND DISCS	5	50
15C510V	5" GR100 COOLCUT SAND DISC	5	50
15C512V	5" GR120 COOLCUT SAND DISC	5	50



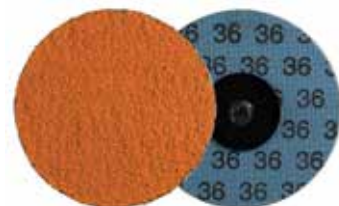
**QUICK-STEP XX™**

Order No.	Description	Std. Pkg.	Std. Ctn.
15V412V	4-1/2 GR120 QUICK STEP XX DISCS	5	50
15V418V	4-1/2 GR180 QUICK STEP XX DISCS	5	50
15V424V	4-1/2 GR240 QUICK STEP XX DISCS	5	50
15V512V	5" GR120 QUICK STEP XX DISCS	5	50
15V518V	5" GR180 QUICK STEP XX DISCS	5	50
15V524V	5" GR240 QUICK STEP XX DISCS	5	50
15V612V	6" GR120 QUICK STEP XX DISCS	5	50
15V618V	6" GR180 QUICK STEP XX DISCS	5	50
15V624V	6" GR240 QUICK STEP XX DISCS	5	50



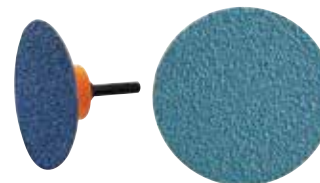
**TWIST FLAP DISCS™**

Order No.	Description	Std. Pkg.	Std. Ctn.
04A254V	2-1/2" FLAP DISC - GR40	2	80
04A256V	2-1/2" FLAP DISC - GR60	2	80
04A258V	2-1/2" FLAP DISC - GR80	2	80
04A262V	2-1/2" FLAP DISC - GR120	2	80



**TWIST™ COOLCUT SANDING DISCS**

Order No.	Description	Std. Pkg.	Std. Ctn.
04C203V	2" TWIST COOLCUT XX - GR 36	10	100
04C205V	2" TWIST COOLCUT XX - GR 50	10	100
04C206V	2" TWIST COOLCUT XX - GR 60	10	100
04C208V	2" TWIST COOLCUT XX - GR 80	10	100
04C212V	2" TWIST COOLCUT XX - GR 120	10	100
04C303V	3" TWIST COOLCUT XX - GR 36	10	100
04C305V	3" TWIST COOLCUT XX - GR 50	10	100
04C306V	3" TWIST COOLCUT XX - GR 60	10	100
04C308V	3" TWIST COOLCUT XX - GR 80	10	100
04C312V	3" TWIST COOLCUT XX - GR 120	10	100



**TWIST™ TOPCUT SANDING DISCS**

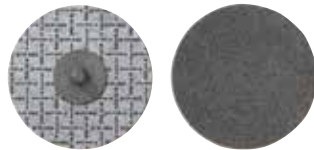
Order No.	Description	Std. Pkg.	Std. Ctn.
04D203V	2" TOPCUT DISC - GR 36	10	400
04D205V	2" TOPCUT DISC - GR 50	10	400
04D206V	2" TOPCUT DISC - GR 60	10	400
04D208V	2" TOPCUT DISC - GR 80	10	400
04D210V	2" TOPCUT DISC - GR 100	10	400
04D212V	2" TOPCUT DISC - GR 120	10	400
04D303V	3" TOPCUT DISC - GR 36	10	200
04D305V	3" TOPCUT DISC - GR 50	10	200
04D306V	3" TOPCUT DISC - GR 60	10	200
04D308V	3" TOPCUT DISC - GR 80	10	200
04D310V	3" TOPCUT DISC - GR 100	10	200
04D312V	3" TOPCUT DISC - GR 120	10	200

# THE WALTER VENDING PROGRAM



## TWIST™ BLENDIX CONDITIONING DISCS

Order No.	Description	Std. Pkg.	Std. Ctn.
04G202V	2" BLENDIX TWIST - COARSE	5	200
04G203V	2" BLENDIX TWIST - MED	5	200
04G204V	2" BLENDIX TWIST - FINE	5	200
04G205V	2" BLENDIX TWIST - S. FINE	5	200
04G302V	3" BLENDIX TWIST - COARSE	5	200
04G303V	3" BLENDIX TWIST - MED	5	200
04G304V	3" BLENDIX TWIST - FINE	5	200
04G305V	3" BLENDIX TWIST - S. FINE	5	100



## TWIST™ BLENDIX U DISCS

Order No.	Description	Std. Pkg.	Std. Ctn.
04U321V	3" BLENDIX U TWIST-2SF	2	20
04U322V	3" BLENDIX U TWIST-6SF	2	20
04U323V	3" BLENDIX U TWIST-6AM	2	20



## FX™ SURFACE CLEANING DISCS

Order No.	Description	Std. Pkg.	Std. Ctn.
04L200V	2" FX DISC	2	80
04L300V	3" FX DISC	2	40



## TWIST™ FELT DISCS

Order No.	Description	Std. Pkg.	Std. Ctn.
04T204V	2" TWIST FELT DISC	5	200
04T304V	3" TWIST FELT DISC	5	100

PACKS OF 5



## SST™ 118° JOBBERS LENGTH FRACTIONAL SINGLE PACKS

Order No.	Description	Std. Pkg.	Std. Ctn.
01A004A	1/16 SST JOBBER QCK SHANK	5	240
01A005A	5/64 SST JOBBER QCK SHANK	5	240
01A006A	3/32 SST JOBBER QCK SHANK	5	240
01A007A	7/64 SST JOBBER QCK SHANK	5	240
01A008A	1/8 SST JOBBER QCK SHANK	5	240
01A009A	9/64 SST JOBBER QCK SHANK	5	240
01A010A	5/32 SST JOBBER QCK SHANK	5	240
01A011A	11/64 SST JOBBER QCK SHANK	5	240
01A012A	3/16 SST JOBBER QCK SHANK	5	240
01A013A	13/64 SST JOBBER QCK SHANK	5	240
01A014A	7/32 SST JOBBER QCK SHANK	5	240
01A015A	15/64 SST JOBBER QCK SHANK	5	240
01A016A	1/4 SST JOBBER QCK SHANK	5	240
01A017A	17/64 SST JOBBER QCK SHANK	5	240
01A018A	9/32 SST JOBBER QCK SHANK	5	240
01A019A	19/64 SST JOBBER QCK SHANK	5	240
01A020A	5/16 SST JOBBER QCK SHANK	5	240
01A021A	21/64 SST JOBBER QCK SHANK	5	240
01A022A	11/32 SST JOBBER QCK SHANK	5	240
01A023A	23/64 SST JOBBER QCK SHANK	5	240
01A024A	3/8 SST JOBBER QCK SHANK	5	240
01A025A	25/64 SST JOBBER QCK SHANK	5	240
01A026A	13/32 SST JOBBER QCK SHANK	5	240
01A027A	27/64 SST JOBBER QCK SHANK	5	240
01A028A	7/16 SST JOBBER QCK SHANK	5	240
01A029A	29/64 SST JOBBER QCK SHANK	5	240
01A030A	15/32 SST JOBBER QCK SHANK	5	240
01A031A	31/64 SST JOBBER QCK SHANK	5	240
01A032A	1/2 SST JOBBER QCK SHANK	5	240



# Product Listing

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01A004A	1/16 SST JOBBER Q/S BLISTER	228	01A026	13/32 SST JOBBER QCK SHANK	123
01A005	5/64 SST JOBBER QCK SHANK	123	01A026A	13/32 SST JOB Q/S, BLISTER	228
01A005A	5/64 SST JOBBER Q/S BLISTER	228	01A027	27/64 SST JOBBER QCK SHANK	123
01A006	3/32 SST JOBBER QCK SHANK	123	01A027A	27/64 SST JOB Q/S, BLISTER	228
01A006A	3/32 SST JOBBER Q/S BLISTER	228	01A028	7/16 SST JOBBER QCK SHANK	123
01A007	7/64 SST JOBBER QCK SHANK	123	01A028A	7/16 SST JOB Q/S, BLISTER	228
01A007A	7/64 SST JOBBER Q/S BLISTER	228	01A029	29/64 SST JOBBER QCK SHANK	123
01A008	1/8 SST JOBBER QCK SHANK	123	01A029A	29/64 SST JOB Q/S, BLISTER	228
01A008A	1/8 SST JOBBER Q/S BLISTER	228	01A030	15/32 SST JOBBER QCK SHANK	123
01A009	9/64 SST JOBBER QCK SHANK	123	01A030A	15/32 SST JOB Q/S, BLISTER	228
01A009A	9/64 SST JOBBER Q/S BLISTER	228	01A031	31/64 SST JOBBER QCK SHANK	123
01A010	5/32 SST JOBBER QCK SHANK	123	01A031A	31/64 SST JOB Q/S, BLISTER	228
01A010A	5/32 SST JOBBER Q/S BLISTER	228	01A032	1/2 SST JOBBER QCK SHANK	123
01A011	11/64 SST JOBBER QCK SHANK	123	01A032A	1/2 SST JOB Q/S, BLISTER	228
01A011A	11/64 SST JOBBER Q/S BLISTER	228	01A501	1/64 SST+ DRILL BIT	124
01A012	3/16 SST JOBBER QCK SHANK	123	01A502	1/32 SST+ DRILL BIT	124
01A012A	3/16 SST JOBBER Q/S BLISTER	228	01A503	3/64 SST+ DRILL BIT	124
01A013	13/64 SST JOBBER QCK SHANK	123	01A504	1/16 SST+ DRILL BIT	124
01A013A	13/64 SST JOBBER Q/S BLISTER	228	01A505	5/64 SST+ DRILL BIT	124
01A014	7/32 SST JOBBER QCK SHANK	123	01A506	3/32 SST+ DRILL BIT	124
01A014A	7/32 SST JOBBER Q/S BLISTER	228	01A507	7/64 SST+ DRILL BIT	124
01A015	15/64 SST JOBBER QCK SHANK	123	01A508	1/8 SST+ DRILL BIT	124
01A015A	15/64 SST JOBBER Q/S BLISTER	228	01A509	9/64 SST+ DRILL BIT	124
01A016	1/4 SST JOBBER QCK SHANK	123	01A510	5/32 SST+ DRILL BIT	124
01A016A	1/4 SST JOBBER Q/S BLISTER	228	01A511	11/64 SST+ DRILL BIT	124
01A017	17/64 SST JOBBER QCK SHANK	123	01A512	3/16 SST+ DRILL BIT	124
01A017A	17/64 SST JOBBER Q/S BLISTER	228	01A513	13/64 SST+ DRILL BIT	124
01A018	9/32 SST JOBBER QCK SHANK	123	01A514	7/32 SST+ DRILL BIT	124
01A018A	9/32 SST JOBBER Q/S BLISTER	228	01A515	15/64 SST+ DRILL BIT	124
01A019	19/64 SST JOBBER QCK SHANK	123	01A516	1/4 SST+ DRILL BIT	124
01A019A	19/64 SST JOB Q/S, BLISTER	228	01A517	17/64 SST+ DRILL BIT	124
01A020	5/16 SST JOBBER QCK SHANK	123	01A518	9/32 SST+ DRILL BIT	124
01A020A	5/16 SST JOB Q/S, BLISTER	228	01A519	19/64 SST+ DRILL BIT	124
01A021	21/64 SST JOBBER QCK SHANK	123	01A520	5/16 SST+ DRILL BIT	124
01A021A	21/64 SST JOB Q/S, BLISTER	228	01A521	21/64 SST+ DRILL BIT	124
01A022	11/32 SST JOBBER QCK SHANK	123	01A522	11/32 SST+ DRILL BIT	124
01A022A	11/32 SST JOB Q/S, BLISTER	228	01A523	23/64 SST+ DRILL BIT	124
01A023	23/64 SST JOBBER QCK SHANK	123	01A524	3/8 SST+ DRILL BIT	124
01A023A	23/64 SST JOB Q/S, BLISTER	228	01A525	25/64 SST+ DRILL BIT	124
01A024	3/8 SST JOBBER QCK SHANK	123	01A526	13/32 SST+ DRILL BIT	124
01A024A	3/8 SST JOB Q/S, BLISTER	228	01A527	27/64 SST+ DRILL BIT	124
01A025	25/64 SST JOBBER QCK SHANK	123	01A528	7/16 SST+ DRILL BIT	124

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01A530	15/32 SST+ DRILL BIT	124	01D510	1.0MM SST DRILL BIT	125
01A531	31/64 SST+ DRILL BIT	124	01D515	1.50MM SST DRILL BIT	125
01A532	1/2 SST+ DRILL BIT	124	01D520	2.00MM SST DRILL BIT	125
01B501	#1 SST JOBBER DRILL	126	01D525	2.50MM SST DRILL BIT	125
01B502	#2 SST JOBBER DRILL	126	01D530	3.00MM SST DRILL BIT	125
01B503	#3 SST JOBBER DRILL	126	01D533	3.30MM SST DRILL BIT	125
01B504	#4 SST JOBBER DRILL	126	01D535	3.5MM SST DRILL BIT	125
01B505	#5 SST JOBBER DRILL	126	01D540	4.00MM SST DRILL BIT	125
01B506	#6 SST JOBBER DRILL	126	01D542	4.20MM SST DRILL BIT	125
01B507	#7 SST JOBBER DRILL	126	01D545	4.50MM SST DRILL BIT	125
01B508	#8 SST JOBBER DRILL	126	01D550	5.00MM SST DRILL BIT	125
01B509	#9 SST JOBBER DRILL	126	01D555	5.50MM SST DRILL BIT	125
01B510	#10 SST JOBBER DRILL	126	01D560	6.00MM SST DRILL BIT	125
01B511	#11 SST JOBBER DRILL	126	01D565	6.50MM SST DRILL BIT	125
01B512	#12 SST JOBBER DRILL	126	01D567	6.7MM SST DRILL BIT	125
01B513	#13 SST JOBBER DRILL	126	01D570	7.00MM SST DRILL BIT	125
01B514	#14 SST JOBBER DRILL	126	01D575	7.50MM SST DRILL BIT	125
01B515	#15 SST JOBBER DRILL	126	01D580	8.00MM SST DRILL BIT	125
01B516	#16 SST JOBBER DRILL	126	01D585	8.5MM SST DRILL BIT	125
01B517	#17 SST JOBBER DRILL	126	01D590	9.00MM SST DRILL BIT	125
01B518	#18 SST JOBBER DRILL	126	01D595	9.50MM SST DRILL BIT	125
01B519	#19 SST JOBBER DRILL	126	01D600	10.00MM SST DRILL BIT	125
01B520	#20 SST JOBBER DRILL	126	01D602	10.2MM SST DRILL BIT	125
01B521	#21 SST JOBBER DRILL	126	01D605	10.50MM SST DRILL BIT	125
01B522	#22 SST JOBBER DRILL	126	01D610	11.00MM SST DRILL BIT	125
01B523	#23 SST JOBBER DRILL	126	01D615	11.50MM SST DRILL BIT	125
01B524	#24 SST JOBBER DRILL	126	01D620	12.00MM SST DRILL BIT	125
01B525	#25 SST JOBBER DRILL	126	01D625	12.50MM SST DRILL BIT	125
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01B527	#27 SST JOBBER DRILL	126	01E118	#29 SST QUICK SHANK DRILL SET	123
01B528	#28 SST JOBBER DRILL	126	01E178	#29 SST QCK SHANK DRILL SET/PLASTIC BOX	123
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01B530	#30 SST JOBBER DRILL	126	01E606	#15SST+ DRILL SET W BOX	131
01B531	#31 SST JOBBER DRILL	126	01E618	#29 SST DRILL SET W BOX	124
01B532	#32 SST JOBBER DRILL	126	01E619	1-60 SST DRILL SET C/W BOX	131
01B533	#33 SST JOBBER DRILL	126	01E621	#21SST+ DRILL SET W BOX	131
01B534	#34 SST JOBBER DRILL	126	01E625	#25 SST+ METRIC SET W BOX	131
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01B539	#39 SST JOBBER DRILL	126	01H005	5/64 SST STUB DRILL	129
01B540	#40 SST JOBBER DRILL	126	01H006	3/32 SST STUB DRILL	129
01B541	#41 SST JOBBER DRILL	126	01H007	7/64 SST STUB DRILL	129
01B542	#42 SST JOBBER DRILL	126	01H008	1/8 SST STUB DRILL	129
01B543	#43 SST JOBBER DRILL	126	01H009	9/64 SST STUB DRILL	129
01B544	#44 SST JOBBER DRILL	126	01H010	5/32 SST STUB DRILL	129
01B545	#45 SST JOBBER DRILL	126	01H011	11/64 SST STUB DRILL	129
01B546	#46 SST JOBBER DRILL	126	01H012	3/16 SST STUB DRILL	129
01B547	#47 SST JOBBER DRILL	126	01H013	13/64 SST STUB DRILL	129
01B548	#48 SST JOBBER DRILL	126	01H014	7/32 SST STUB DRILL	129
01B549	#49 SST JOBBER DRILL	126	01H015	15/64 SST STUB DRILL	129
01B550	#50 SST JOBBER DRILL	126	01H016	1/4 SST STUB DRILL	129
01B551	#51 SST JOBBER DRILL	126	01H017	17/64 SST STUB DRILL	129
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01B554	#54 SST JOBBER DRILL	126	01H020	5/16 SST STUB DRILL	129
01B555	#55 SST JOBBER DRILL	126	01H021	21/64 SST STUB DRILL	129
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01B559	#59 SST JOBBER DRILL	126	01H025	25/64 SST STUB DRILL	129
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01H109	9/64 HEX SST STUB DRILL	128	01K007	7/64 SST DOUBLE-END STUB DRILL	127
01H110	5/32 HEX SST STUB DRILL	128	01K008	1/8 SST DOUBLE-END STUB DRILL	127
01H111	11/64 HEX SST STUB DRILL	128	01K009	9/64 SST DOUBLE-END STUB DRILL	127
01H112	3/16 HEX SST STUB DRILL	128	01K010	5/32 SST DOUBLE-END STUB DRILL	127
01H113	13/64 HEX SST STUB DRILL	128	01K011	11/64 SST DOUBLE-END STUB DRILL	127
01H114	7/32 HEX SST STUB DRILL	128	01K012	3/16 SST DOUBLE-END STUB DRILL	127
01H115	15/64 HEX SST STUB DRILL	128	01K013	13/64 SST DOUBLE-END STUB DRILL	127
01H116	1/4 HEX SST STUB DRILL	128	01K014	7/32 SST DOUBLE-END STUB DRILL	127
01H117	17/64 HEX SST STUB DRILL	128	01K015	15/64 SST DOUBLE-END STUB DRILL	127
01H118	9/32 HEX SST STUB DRILL	128	01K016	1/4 SST DOUBLE-END STUB DRILL	127
01H119	19/64 HEX SST STUB DRILL	128	01K101	#1 SST DOUBLE-END STUB DRILL	127
01H120	5/16 HEX SST STUB DRILL	128	01K110	#10 SST DOUBLE-END STUB DRILL	127
01H121	21/64 HEX SST STUB DRILL	128	01K120	#20 SST DOUBLE-END STUB DRILL	127
01H122	11/32 HEX SST STUB DRILL	128	01K130	#30 SST DOUBLE-END STUB DRILL	127
01H123	23/64 HEX SST STUB DRILL	128	01K140	#40 SST DOUBLE-END STUB DRILL	127
01H124	3/8 SST STUB QCK SHANK	128	01K151	#51 SST DOUBLE-END STUB DRILL	127
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01H128	7/16 HEX SST STUB DRILL	128	01M535	35/64 SST PRENTICE DRILL	130
01H129	29/64 HEX SST STUB DRILL	128	01M536	9/16 SST PRENTICE DRILL	130
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15T506	5" X 7/8 GR60 ERGOFLEX	72	15X506V	5" GR60 COOLCUT XX DISCS-PKG 5	226
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54B033	MINI SURFOX WAND KIT	18	55B087	STAINLESS STEEL BASKET	221
54B038	NARROW INSERT-90 DEG/MINI	15	55D010	CLEAN BOX	210
54B043	LARGE PAD/GRAPHITE INSERT-PKG/10	18	55D600	BIO-CIRCLE MAXI PART WASHER	202
54B044	BLOTTER PAPER-PKG/100	24	55D600BCAD	BIO-CIRCLE MAXI with 1 AERO 208L	203
54B045	WHITE FELT TIPS-PKG/5, ID TESTER	24	55D600BCAP	BIO-CIRCLE MAXI with 6 AERO 20L	203
54B048	LARGE GRAPHITE INSERT/MINI	15	55D600BCLD	BIO-CIRCLE MAXI & 1 BIO-CIRCLE L 208L	203
54B050	CART FOR SURFOX	18	55D600BCLP	BIO-CIRCLE MAXI with 6 BIO-CIRCLE L 208L	203
54B051	LARGE PAD/GRAPHITE INSERT-PKG/10	15	55D600BCUD	BIO-CIRCLE MAXI with 1 ULTRA 208L	203
54B052	LARGE PAD/GRAPHITE INSERT-PKG/5	13	55D600BCUP	BIO-CIRCLE MAXI with 6 ULTRA 20L	203
54B063	CORD SET	20	55D615CBAD	BIO-CIRCLE MAXI & 1 CB100 ALU 208L	203
54B073	170X108MM STENCIL	20	55D615CBAP	BIO-CIRCLE MAXI & 6 CB100 ALU 20L	203
54B074	257X170MM STENCIL	20	55D615CBD	BIO-CIRCLE MAXI & 1 CB100 208L	203
54B076	54X32MM STENCIL	20	55D615CBP	BIO-CIRCLE MAXI & 6 CB100 20L	203
54B077	85X54MM STENCIL	20	57M001	GREEN POWERCLOTH / PKG 10	220
54B080	STANDARD SURFOX MARKING KIT	19	57M005	16X16 MICROFIBER CLOTH/PKG 50	220
54B081	SURFOX PRO MARKING KIT/PRINTER	19	57M010	16X16 MICROFIBER CLOTH/PKG 100	220





# Authorized service centers

## *Mechanical product lines*

### ALBERTA

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#### *Calgary*

#### **INDUSTRIAL POWER TOOL MAINTENANCE LTD**

4115 64 Ave SE #8, Calgary, AB T2C 2C8  
403 261-0780

#### *Edmonton*

#### **DAN'S POWER TOOL REPAIR SERVICE INC.**

8153 Wagner Rd. NW, T6E 4N6  
780 490-1955

#### **QUALITY TOOL REPAIR LTD**

11216 - 156 St., T5M 1Y3  
780 702-1686

### BRITISH COLUMBIA

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#### *Burnaby*

#### **PROTOOL SALES & SERVICE LTD**

109-3070 Norland Avenue, V5B 3A6  
604 299-6664

#### *Kelowna*

#### **CENTRAL ELECTRIC MOTOR REWIND LTD**

104-1765 Springfield Rd., V1Y 5V5  
250 860-4415

#### *Mission*

#### **ROB'S TOOL SERVICES**

12325 Cardinal Place, V4S 1L3  
604 374-1830

#### *Port Coquitlam*

#### **ROB'S TOOL SERVICES C/O R.J. GAS LTD**

404-1952 Kingsway, V3C 1S5  
604 374-1830

#### *Richmond*

#### **PROTOOL INDUSTRIAL SALES & SERVICE LTD**

160-11960 Hammersmith Way, V7A 5C9  
604 271-3220

### MANITOBA

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#### *Winnipeg*

#### **ATHENA SMALL EQUIPMENT REPAIR**

1474 Wellington Ave., R3E 0K5  
204 786-1900

#### **ACCUTOOL INDUSTRIAL SOLUTIONS**

532 Berry St., R3H 0R9  
204 772-6523

### NEWFOUNDLAND

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#### *St. John's*

#### **RIDEOUT TOOL & MACHINES INC.**

222 Kenmount Rd., A1B 3R2  
709 754-2240

### NOVA SCOTIA

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#### *Dartmouth*

#### **DEITER'S TOOL & SAW SERVICE LTD**

109 Ilsley Ave., Unit 10, B3B 1S8  
902 468-4888

### ONTARIO

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#### *Barrie*

#### **TONY'S POWER TOOL & VACUUM SERVICE**

59 Bellfarm Rd., L4M 5G1  
705 726-1142

#### *Bradford*

#### **BRADFORD RENTAL SALES & SERVICE LTD**

192 Bridge St., L3Z 3H2  
905 775-7101

#### *Brantford*

#### **TOLHURST POWER TOOL REPAIR**

53 Hill Ave., N3R 4G8  
519 755-6277

#### *Chelmsford*

#### **BRS BATTERY LTD**

3450 Highway 144 North, P0M 1L0  
705 855-0473

#### *Concord*

#### **CONCORD HARDWARE**

374 Bowes Rd., L4K 1K1  
905 669-9914

#### *Cornwall*

#### **D-TECH POWER TOOL SERVICE**

1112 Marleau Ave., K6K 2W8  
613 938-9157

#### *Hamilton*

#### **ACTIVE TOOL REPAIR**

955 Barton St. E., L8L 3C4  
905 545-7646

#### *Innerkip*

#### **KC'S REPAIR CENTER**

156 Blandford St., N0J 1M0  
519 469-3351

#### *Kitchener*

#### **RMW ELECTRIC INC.**

350, Shirley Ave., Unit No. 6, N2B 2E1  
519 744-1821

#### *London*

#### **PRYDE INDUSTRIAL INC.**

542 187 Exeter Rd., N6L 1A4  
519 690-1111

#### *Mississauga*

#### **MISSISSAUGA REPAIR CENTER**

3120 Glen Erin Drive, L5L 1R6  
905 828-1565

#### **ORIGINAL POWER TOOL CO. LTD**

7508 Bath Rd., L4T 1L2  
905 612-8252

#### *North Bay*

#### **GATEWAY PROFESSIONAL TOOLS**

790B Cassells St., P1B 4A4  
705 495-4906

### *Ottawa*

#### **MYTEK POWER TOOLS SERVICE**

1541 Star Top Rd., K1B 3W5  
613 749-7294

#### **OTTAWA FASTENER SUPPLY LTD**

2205 Robertson Rd., K2H 5Z2  
613 828-8399

### *Sarnia*

#### **SERV A TOOL & REPAIRS LTD**

504 McGregor Side Road, N7T 7H5  
519 344-8837

### *Scarborough*

#### **GEORGE POWER TOOL SERVICE INC.**

1365 Morningside Ave., Unit 11  
M1B 4Y5  
416 286-3933

### *St. Catharines*

#### **A & A POWER TOOL REPAIR LTD**

10-A Nihan Drive, L2N 1L1  
905 646-4881

### *Stoney Creek*

#### **APOLLO TOOL REPAIR & SALES LTD**

367 Barton St. E., L8E 2L2  
905 544-5202

### *Toronto*

#### **IMPACT TOOLS & SUPPLIES**

1170 The Queensway, M8Z 1R5  
416 255-7789

## **QUÉBEC**

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### *Alma*

#### **RÉPARATION INDUSTRIELLE**

##### **LAC ST-JEAN**

1950, ave. Lamountain Nord, G8B 4Y1  
418 668-3350

### *Anjou*

#### **DORSON LTÉE**

8551, boul. Parkway Blvd, H1J 1N1  
514 351-0160

### *Beloil*

#### **OUTILLAGE PLACIDE MATHIEU INC.**

670, rue Picard, J3G 5X9  
450 467-3565

### *Chicoutimi*

#### **J. SIROIS ÉLECTRIQUE INC.**

2203, rue Roussel, G7G 1W4  
418 543-3308

### *Drummondville*

#### **DOCTEUR DE L'OUTIL INC.**

2405, rue St-Pierre, J2C 5A7  
819 478-1109

### *Granby*

#### **FIXACLOUS INC.**

625, rue Cowie, J2G 3X4  
450 378-0049

### *Laval*

#### **SERVICE D'OUTILS F.G.L. INC.**

949, rue Michelin, H7L 5B6  
450 972-7979

### *Marieville*

#### **OXYMAX INC.**

115, ch. du Ruisseau St-Louis O., J3M  
1P7  
450 460-7255

### *Matane*

#### **ROLAND DUMAS (1997) INC.**

147, rue Thibeault, G4W 2V8  
418 562-4947

### *Mont-Laurier*

#### **CENTRE DE RÉPARATION**

##### **LÉON GRENIER INC.**

1260, boul. A. Paquette, J9L 1M7  
819 623-3740

### *Mont-Royal*

#### **OUTIL PAC INC.**

5895, ave. Andover, H4T 1H8  
514 733-3555

### *Montmagny*

#### **RÉPARATION ÉLECTRIQUE**

##### **MONTMAGNY INC.**

170, 4<sup>ème</sup> rue, G5V 3L5  
418 248-2072

### *Montréal*

#### **INOLEC INC.**

100, rue De Port Royal E., H3L 1H7  
514 384-9021

#### **J. CARRIER FOURNITURES INDUSTRIELLES**

100 rue de Port Royal Est, H3L 1H7  
514 384-9021

### *Plessisville*

#### **SERVI MAX**

1124, rue St-Calixte, G6L 1N8  
800 567-3186

### *Québec*

#### **CLINIQUE D'OUTILLAGE M.P. INC.**

3075, boul. Wilfrid-Hamel  
Suite 107, G1P 4C6  
418 877-3371

#### **RÉPARATION D'OUTILS**

##### **RAYMOND MARTEL INC.**

2025, rue Lavoisier, bur. 180, G1N 4L6  
418 681-9444

### *Rimouski-Est*

#### **ONDINE INC.**

##### **RÉPARATION YVES PROULX**

570-C St-Germain, G5L 1G4  
418 725-0800

### *Rouyn Noranda*

#### **ATELIER REPAR ENR.**

47, ave. De la Matapédia, J9X 1R4  
819 762-4446

#### **ÉQUIPEMENTS TNO (2005) INC.**

325, boul. Industriel, J9X 6P2  
819 764-3221

### *Sept-Îles*

#### **DISTRIBUTIONS JRV INC.**

5, rue Regnault, G4R 3R4  
418 962-6249

### *Sherbrooke*

#### **DO-MAR ÉLECTRIQUE INC.**

1136, rue King E., J1G 1E4  
819 563-2234

### *St-Antoine*

#### **ALAIN MAILLOUX DYNATECH**

788, ch. Rivière-Verte, G0L 2J0  
418 867-3811

### *St-Georges-de-Beauce*

#### **VEILLEUX & FILS INC.**

3195, boul. Dionne, G5Y 5E6  
418 228-6207

### *St-Jean-sur-Richelieu*

#### **MOTEURS ÉLECTRIQUES ST-JEAN INC.**

505, rue St-Jacques, J3B 2M1  
450 347-3265

### *Trois-Rivières*

#### **BEL-OUTIL ENR.**

1200, rue Dubord, G8T 9C7  
819 378-0237

### *Val d'Or*

#### **HYTEX 85 INC.**

1721, ch. Sullivan, J9P 1M7  
819 825-1475

### *Ville-Marie*

#### **TEMLAC LTÉE**

43, rue des Oblats N., J9X 1J1  
819 629-3143

## **SASKATCHEWAN**

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### *Saskatoon*

#### **SASK TOOL REPAIR LTD**

311A 47th St. E., S7K 5H2  
306 244-9981



## Walter Surface Technologies

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Toll free: 1 888 821-9444  
Fax: 905 795-8558

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V3M 6M2  
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Toll free: 1 877 366-9258  
Fax: 604 540-4778  
Fax toll free: 1 877 329-9258

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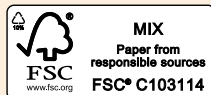
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