

20
14

“Only the best”

INNOVATIVE SOLUTIONS FOR THE METAL WORKING INDUSTRY

| CUTTING | GRINDING | BLENDING | WELDING | SANDING | FINISHING | BRUSHING | TOOLING |



CLAUDE-SIMON LANGLOIS
Special Editions
PHOTOGRAPHIE

Langlois

New
2014

ZIP ONE™ type 27

With the same ultra-thin design as the current 1/32" ZIP ONE type 1 cutting wheel, the breakthrough ZIP ONE type 27 features a special raised center for extra rigidity, durability and an even thinner profile. The unique design of the type 27 center hub allows for a larger cutting surface than standard progressive hubs, while enabling straighter, sharper, more precise and quicker cuts for flush cutting applications. Manufactured with an iron-free mix, ZIP ONE type 27 cuts cooler and faster and is guaranteed not to contaminate stainless steel. It avoids discoloration of the workpiece and cuts burr-free, reducing post-cut finishing, saving you time and money.



XCAVATOR™

Ultra High Removal Grinding

Walter's dedication to providing the ultimate in innovation is ensured through rigorous testing. Confronted with some of the industry's toughest metals, from tungsten carbide to quenched and tempered steel, the XCAVATOR demonstrated time and time again its capacity for Ultra High Removal. XCAVATOR is also capable of providing extremely aggressive grinding on steel and stainless steel, making it one of our toughest and most versatile grinding wheels to date.



QUICK-STEP Flex™

The QUICK-STEP Flex provides long-lasting, aggressive material removal while ensuring a uniform finish. The QUICK-STEP Flex is the first step in a multi-step process which leads to the highest level of consistency in your finishing work. This process equates to less re-work, less passes, and a higher quality finished workpiece. The QUICK-STEP Flex offers all the weld breaking power of the Enduro-Flex with a more refined touch to ensure a consistent surface finish. Used with our patented velcro backing pad with an integrated center pin, the QUICK-STEP Flex ensures quick changeovers and increased productivity.



QUICK-STEP Finisher™

Ideal for surface finishing

This lightweight, ergonomic tool packs a powerful punch despite its compact size. With a variable speed setting, the QUICK STEP Finisher can take you all the way from light weld blending to applying a mirror finish using our QUICK STEP abrasive line. Best of all, this tool is compact, allowing you to reach places larger tools simply cannot. Get to the finish faster with the new QUICK STEP Finisher!



High Performance Power Brushes

Whether it is our crimped wire cup brushes, knot twisted saucer cup brushes or our new double-row knot-twisted brushes, Walter looks to provide the highest productivity tools to help our customer work better. Walter brushes help ensure that the customer works faster and smarter while providing a high quality long lasting product.

Check out the brushing section to learn more about all the brushes that have been added to the 2014 line up.



SURFOX™ 204

Electrochemical Weld Cleaning System
for Stainless Steel

The SURFOX 204 is an electrochemical weld cleaning system that offers a highly effective method of removing heat tint from welded stainless steel (TIG, spot, and pulsed 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.





Walter Surface Technologies

Innovation, Efficiency and Safety

At Walter Surface Technologies, our goal is to contribute to our customers' success by helping them work better. This means providing you with superior tools to decrease your overall material costs while boosting productivity. If we're not saving you time and money, then we're not doing our job. Each product in this catalog has been engineered to perform to the highest standards and is backed by superior service, technical support and our 100% Money Maker Guarantee.

Our purpose

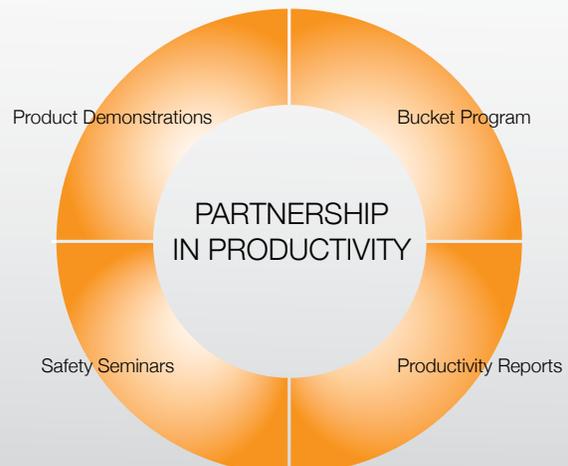
*To contribute to our customers' success
by helping them work better!*



Partnership in Productivity

Through its Partnership in Productivity Program, Walter implements processes and tools that help improve productivity, safety and measurability. We build long-term business relationships that ensure success.

Product Demonstrations, The Bucket Program, Productivity Reports and Safety Seminars, implemented by Walter in conjunction with our strategic distributors, are offered as a unified approach and a proven strategy to improve productivity and safety for end-users worldwide.





Differentiating ourselves through a dedicated sales team who work directly with our customers, Walter Surface Technologies is not only providing tools for the metal fabricating and finishing market; we are an integral part of the industry. Our team is trained to listen and provide innovative solutions that answer customer needs. Walter helps make the fabricating and finishing process more efficient; reducing both abrasive and labor costs.

Bucket Program

Evaluation of cost savings potential and improved worker safety

Walter, jointly with our distributors, will place buckets in strategic locations throughout our customer's facility. Over the course of a few weeks, the used abrasives, brushes, tooling, etc. are collected in orange Walter bucket(s). A Walter Sales Representative will return to the given facility, analyze the bucket contents and will provide recommendations that will help the customer optimize their abrasive use as well as provide suggested work process improvements. The Bucket Program helps customers: reduce abrasive costs, improve productivity and encourage safer working habits, maximizing every dollar spent.



Productivity Reports

With an abrasives usage analysis, made possible through the bucket program, a member of the Walter sales team provides the customer with a detailed productivity report. This report compares Walter product versus competitive product in terms of yearly usage, removal, labor time and cost, product life, product cost, etc. With all the facts in hand, we aim at providing our customers with the information needed to make decisions that will positively impact their business.

Safety Seminars

Because health and safety are top priority

As an addition to Walter's added value services, we offer FREE Safety Seminars to encourage a safer work environment. Whether it is the Abrasives Safety Seminar or the Chemical Safety Seminar, we work with our customers to customize the perfect training for their team(s). These safety seminars are free of charge and help us set the standard for industry best practices.





COME SHARE THE PASSION AT THE WALTER NETWORK

WWW.WALTER.COM/VIDEOS



Visit www.walter.com/videos and click through to **The Walter Network**. TWN has valuable resources that you can view and take advantage of 24/7! Select from:

- **Video Testimonials**
- **Product Demonstrations**
- **Safety Advice**
- **Tips & Hints**



Chemical products legend



Volatile Organic Compounds

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.



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.



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.



NFPA 704

"Standard System for the Identification of the Hazards of Materials for Emergency Response" is a standard maintained by the US based National Fire Protection Association. The four divisions are typically color-coded, with blue indicating level of health hazard, red indicating flammability, yellow (chemical) reactivity, and white containing special codes for unique hazards. Each of health, flammability and reactivity is rated on a scale from 0 (no hazard) to 4 (severe risk).

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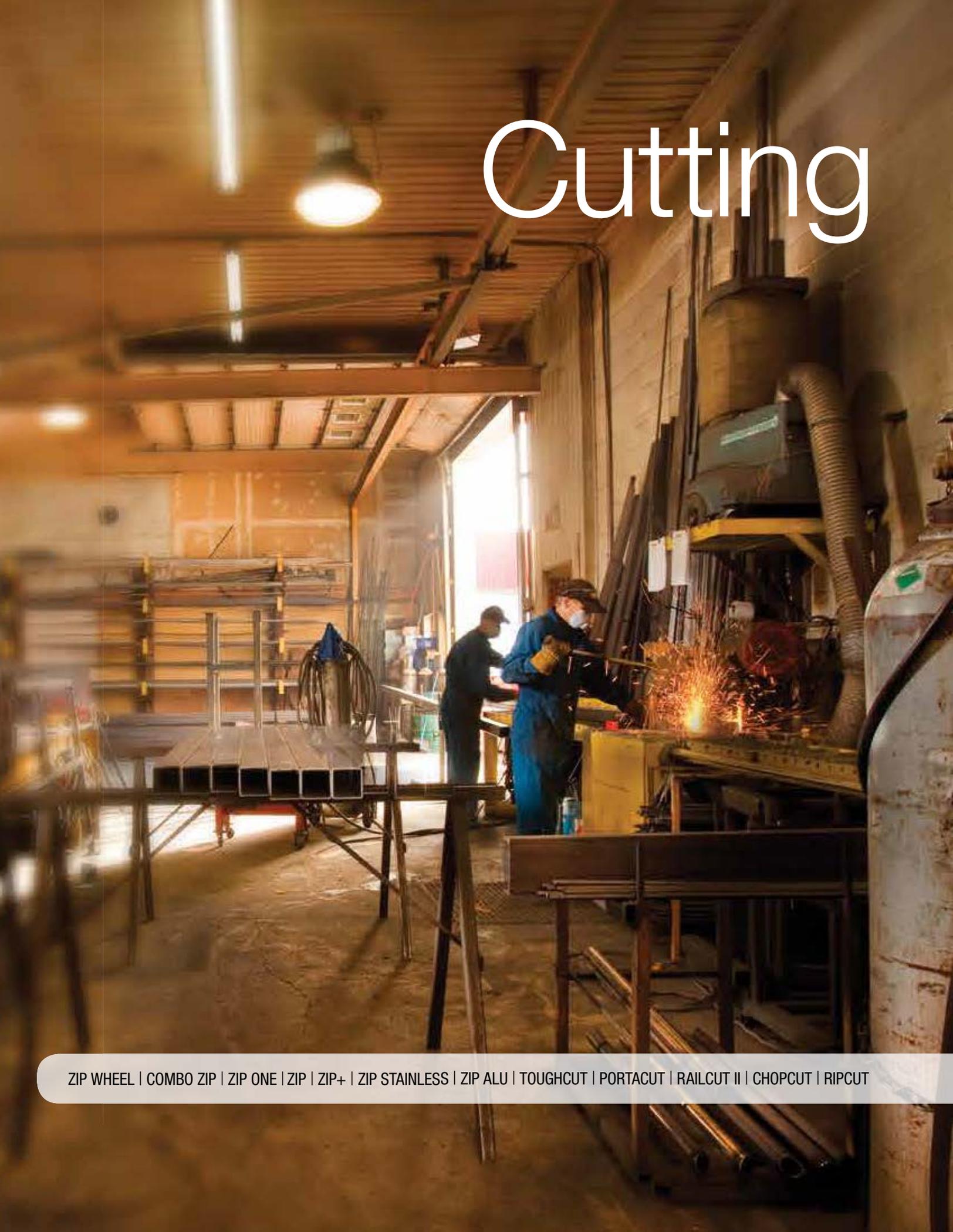
WALTER cut-off wheels are engineered from the ground up to save you time and money. While other cut-off wheels will try to sell you on the idea of a lower initial price tag, only WALTER can offer you the lowest cost-per-cut in the industry. That's because each WALTER cut-off wheel lasts longer and provides up to 40% more cuts than competitive wheels. That means fewer wheels used and less time wasted changing out spent wheels all day, every day.

If you are serious about saving money while also using the best performing cut-off wheels in the industry, join the thousands of professionals throughout the world who trust WALTER to get the job done on time and on budget.



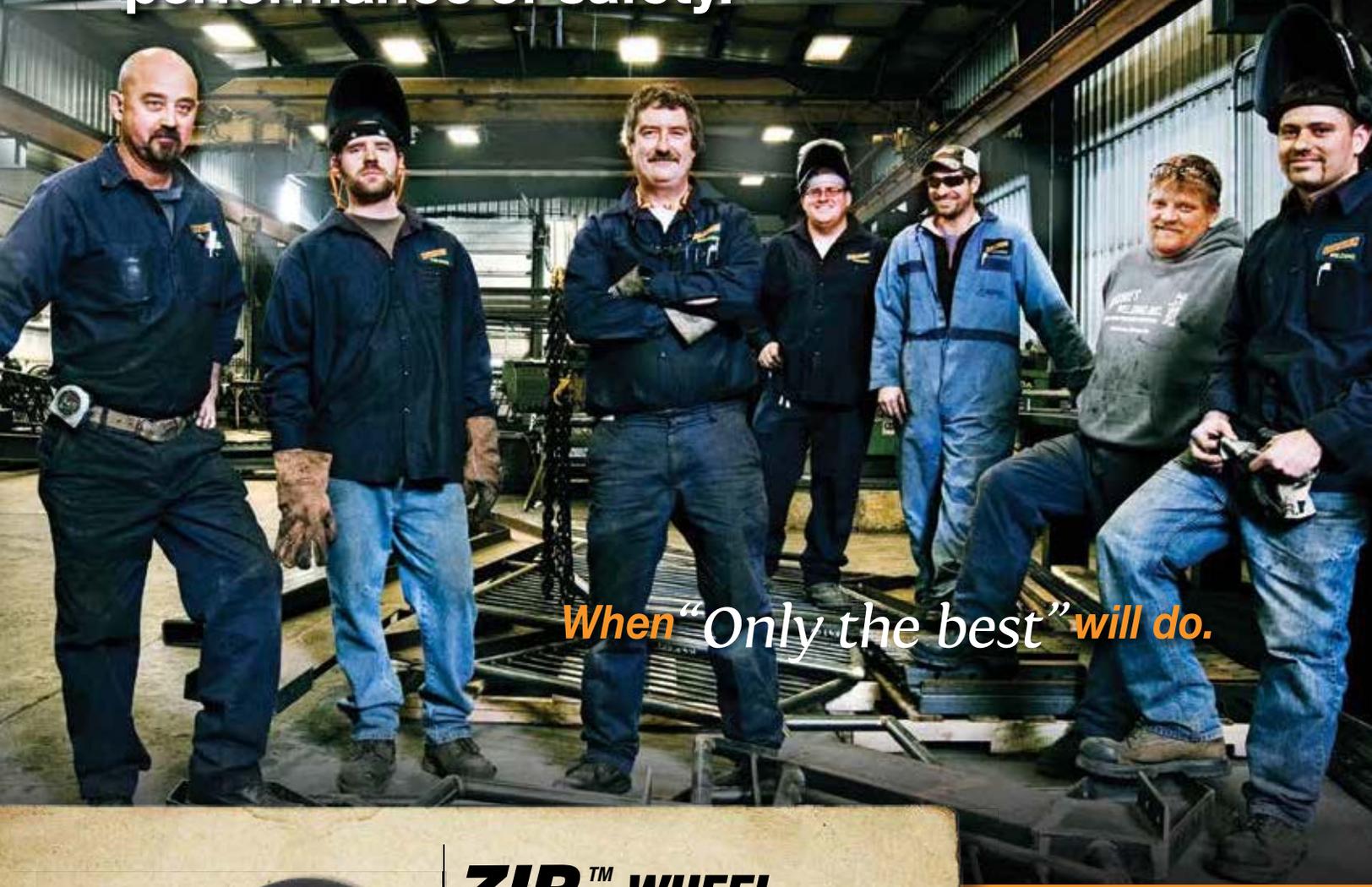
A handwritten signature in white ink, appearing to read "C. Langlois", enclosed in a thin white rectangular border.

Cutting

A large industrial metal cutting facility. In the foreground, a worker in a blue uniform and cap is operating a cutting machine, with bright sparks flying from the cutting point. Another worker is visible in the background near a large window. The facility is filled with metal structures, including a rack of pipes and a large gas cylinder on the right. The lighting is warm and industrial, with a large overhead light fixture visible.

ZIP WHEEL | COMBO ZIP | ZIP ONE | ZIP | ZIP+ | ZIP STAINLESS | ZIP ALU | TOUGH CUT | PORTACUT | RAILCUT II | CHOPCUT | RIPCUT

You work hard producing the best product in the industry, without compromising on performance or safety.



When "Only the best" will do.



ZIP™ WHEEL

The standard for cut-off wheels

- ✓ Longest life guaranteed
- ✓ The most cuts per wheel in the industry
- ✓ Less friction and faster cutting

ZIP WHEELS: Faster, Cooler and Free Cutting.

VIDEO



walter.com

 **WALTER**
Surface Technologies

Walter labels | Basic information

Materials

Red for steel



Blue for stainless steels and nickel-based alloys



Green for aluminum and non-ferrous metals



Black for plastic



Grey for concrete and ductile



Dark grey for mill scale



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 www.walter.com/safety

Working angle

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



Type 27 / (EN 42) – depressed center



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°



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

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



ZIP WHEEL | Family of products

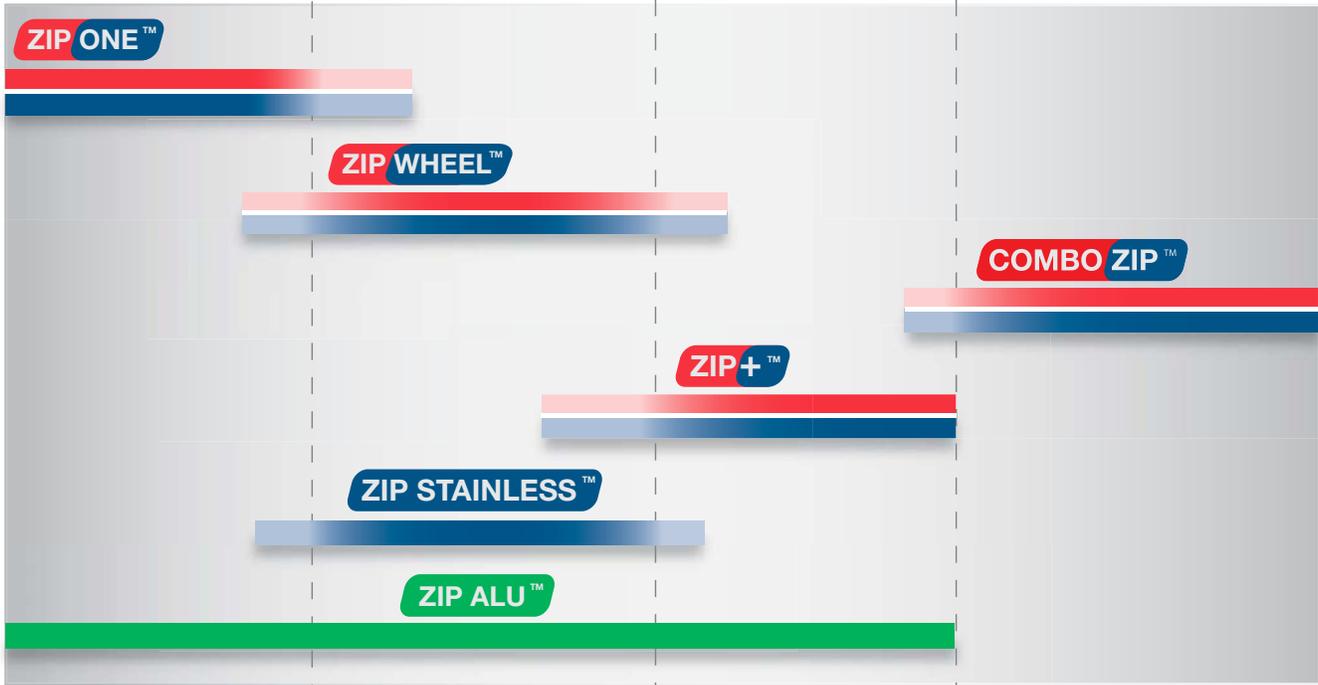


Thin gauge cutting

General cutting

Rough cutting

Cutting and deburring



● Steel ● Stainless steel ● Aluminum



Exclusive packaging!

ZIP wheels are sold in a unique and reusable plastic container that preserves their physical properties thereby enhancing performance and safety.

ZIP WHEEL™

The most cuts per wheel & lowest cost per cut in the industry

The ZIP WHEEL is widely recognized throughout industry as the ultimate in performance cutting. Heavily reinforced for safety while maintaining a thin profile for quick, cool cuts, ZIP WHEEL is the preferred choice for most cutting applications.



TYPE 1



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

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

Longest life! The most cuts per wheel in the industry, guaranteed!

- > Significantly more cuts than the competition*
- > Lowest cost per cut in the industry
- > Less friction and faster cutting

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

TYPE 1



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

TYPE 27



Dia.	Thickness	Arbor	Order No.	Grade	Max RPM	Std. Pkg.	Std. Ctn.
4 1/2"	3/64" (.045")	7/8"	11-T 142	A-60-ZIP	13,300	25	400
5"	3/64" (.045")	7/8"	11-T 152	A-60-ZIP	12,200	25	400
6"	3/64" (.045")	7/8"	11-T 162	A-60-ZIP	10,200	25	200
7"	1/16" (.062")	7/8"	11-T 172	A-30-ZIP	8,600	25	100
9"	5/64" (.078")	7/8"	11-T 192	A-30-ZIP	6,600	25	100

Accessory

Reducer bushing 7/8" to 5/8"

Order No. 10-A 984

The Type-27 exclusive metal cladding prevents contact with the workpiece, improving safety.



A WALTER
Exclusive



- > Perfectly centered wheel for total operator comfort
- > Quick and easy wheel changes for minimum downtime
- > Vibration-free cutting for maximum productivity



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



ZIP WHEEL™ SPIN-ON

High performance cutting with SPIN-ON system

Now available with a spin-on hub for quicker disc changes and minimal vibration during operation.

SPIN-ON

TYPE 27



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

COMBO ZIP

Cutting & 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 health and safety with Combo Zip.

TYPE 27



Fe-S-CI
<0.1%



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

COMBO ZIP SPIN-ON



Even easier mounting

Now available with a spin-on hub for quick and easy mounting.

SPIN-ON

TYPE 27



Fe-S-CI
<0.1%



Dia.	Thickness	Arbor	Order No.	Grade	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/64" (.078")	5/8"-11	11-T 844	A-60-COMBO ZIP	13,300	25	200
5"	5/64" (.078")	5/8"-11	11-T 854	A-60-COMBO ZIP	12,200	25	200
6"	5/64" (.078")	5/8"-11	11-T 864	A-60-COMBO ZIP	10,200	25	200

ZIP ONE™

Specially designed 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.

TYPE 1

Fe-S-CI
<0.1%



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

TYPE 27

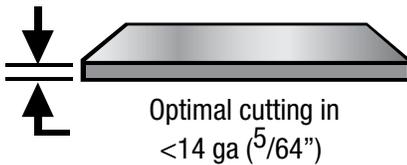
Fe-S-CI
<0.1%



Dia.	Thickness	Arbor	Order No.	Grade	Max RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/32" (.032")	7/8"	11-T 642	ZA-60-ZIP	13,300	25	400
5"	1/32" (.032")	7/8"	11-T 652	ZA-60-ZIP	12,200	25	400

Type 1:

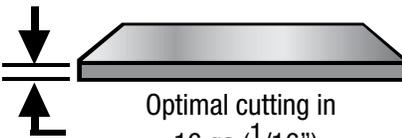
Max. Thickness: 8 ga (3/16")



Optimal cutting in
<14 ga (5/64")

Type 27:

Max. Thickness: 11 ga (1/8")



Optimal cutting in
<16 ga (1/16")



- > Extra thin for ultra-quick precision cutting
- > Clean cutting with minimal burr
- > 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





- > Fast, cool and free cutting, allowing the operator to work with minimal pressure for the best control
- > Excellent wheel life



Mounting accessories

FLUSH MANDRELS with 1/4" shaft

- for wheel thickness up to 1/8" **Order No.**
- 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" **Order No.**
- 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

Type 27:

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

ZIP™

Cut-Off and Grinding Wheels for Straight Shaft and Die Grinders

ZIP wheels are the best performing wheels 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 $\geq 1/8"$. For grinding applications, $\geq 1/4"$ is recommended.

2" TYPE 1

Dia.	Thick.	Arbor	Order No.	Grade	Max RPM	Std. Pkg.	Std. Ctn.
2"	1/16"	5/16"	11-L 211	A-24-ZIP	31,000	25	200
2"	1/8"	5/16"	11-L 221	A-24-ZIP	31,000	25	200
2"	1/4"	5/16"	11-L 231	A-24-ZIP	31,000	25	200
2"	1/2"	5/16"	11-L 251	A-24-ZIP	31,000	25	200
2"	1/16"	3/8"	11-L 213	A-24-ZIP	31,000	25	200
2"	1/8"	3/8"	11-L 223	A-24-ZIP	31,000	25	200
2"	1/4"	3/8"	11-L 233	A-24-ZIP	31,000	25	200
2"	1/2"	3/8"	11-L 253	A-24-ZIP	31,000	25	200

3" TYPE 1

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

4" TYPE 1

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

3" and 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-ZIP	25,470	25	200
4"	1/32"	3/8"	11-L 408**	A-60-ZIP	19,100	25	200

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

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

ZIP+™

Straighter Cuts on Thick Material

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



TYPE 1



Dia.	Thickness	Arbor	Order No.	Grade	Max RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/16" (.062")	7/8"	11-T 242	A-46-ZIP	13,300	25	400
5"	1/16" (.062")	7/8"	11-T 252	A-46-ZIP	12,200	25	400
6"	1/16" (.062")	7/8"	11-T 262	A-46-ZIP	10,200	25	200
7"	5/64" (.078")	7/8"	11-T 272	A-46-ZIP	8,600	25	100
9"	3/32" (.094")	7/8"	11-T 292	A-46-ZIP	6,600	25	100

- Best life and performance for cutting material 1/8" and up

TYPE 27



Dia.	Thickness	Arbor	Order No.	Grade	Max RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/16" (.062")	7/8"	11-T 453	A-46-ZIP	13,300	25	400
5"	1/16" (.062")	7/8"	11-T 503	A-46-ZIP	12,200	25	400
6"	1/16" (.062")	7/8"	11-T 603	A-46-ZIP	10,200	25	200

- The type 27 is equipped with a metal hub cladding for extra strength, control and safety
- The preferred wheel for flush cutting in confined spaces



Mounting accessories

Complete set for a flush fit and minimal spindle exposure beyond the clamping nut

For 5/8"-11 spindles

Order No. 30-B 021



Clamping flanges set to mount 9" cut-off wheels

For 5/8"-11 spindles

Order No. 30-B 022





- > Free of iron, sulfur and chlorine so as not to contaminate stainless steel
- > Type 27 has metal hub cladding for extra strength, control and safety

ZIP STAINLESS™

Guaranteed not to contaminate stainless steel

This cut-off wheel is free of iron, sulfur and chlorine and guaranteed not to contaminate stainless steel or other nickel alloyed steels. It offers cool, free cuts and the best overall performance on stainless steel out of any member of the ZIP WHEEL family.

TYPE 1



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

TYPE 27



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

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



- > Best wheel life and extra fast cutting in aluminum



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

For mandrels see page 16.

TYPE 27



Dia.	Thickness	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

TOUGH CUT™

Performance cutting with angle grinders and circular saws

These thin wheels for angle grinders and circular saws will cut fast and free without binding to minimize the load on the tool and maintain high RPM for a clean cut and the best 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

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

Accessory

Reducer bushing 7/8" to 5/8"

Order No. 10-A 984



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 engineered for an optimal cutting speed to wheel life ratio, PORTACUT is the preferred choice for true professionals.

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



- > 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

New and Improved



RAILCUT II™

The quickest cuts in the rail industry

The new RAILCUT II is designed for fast cutting of all types of rail without glazing. These sturdy wheels are also heavily reinforced for maximum safety, smooth cutting and more cuts per wheel than ever before!

TYPE 1



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

Accessories

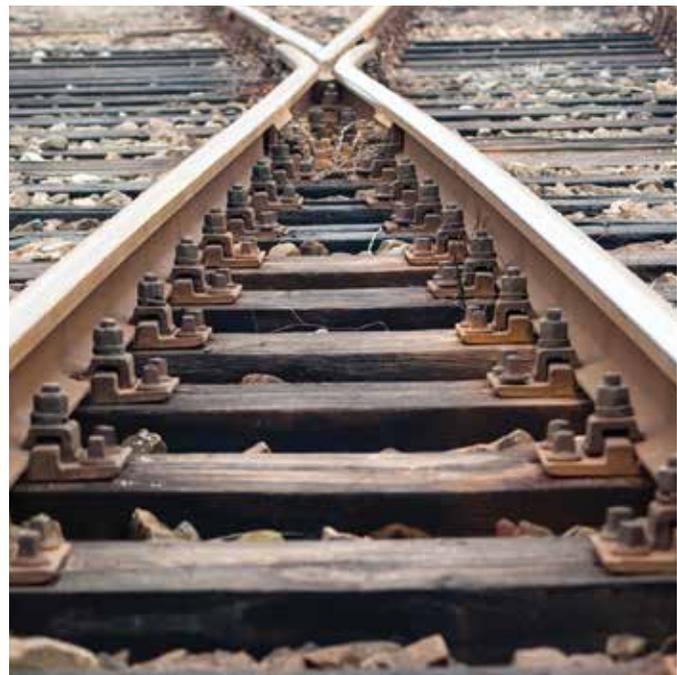
Reducer bushings

From 1" to 20 mm
1" to 7/8"

Order No. 10-A 989

Order No. 10-A 988

- > New formulation of high performance abrasive grains and resin
- > Longer life
- > Faster cutting



CHOPCUT™

Performance cutting with Portable Chop saws

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

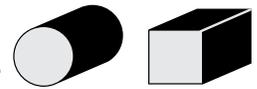


CHOPCUT

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-HC+	5,100	10	50
14"	3/32"	1"	10-Q 143	A-30-HC+	4,400	10	50
16"	7/64"	1"	10-Q 163	A-30-HC+	3,800	10	50



- > **Reinforced center**
- > The wheel of choice for solids and stainless tubes
- > Optimized for use on low power chop saws—reduces load on machine and creates fewer burrs



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



- > **Double external reinforcement**
- > The wheel of choice for tubing and extrusions
- > Even longer life than ever before for the toughest applications

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-ALU	5,100	10	50
14"	3/32"	1"	10-L 143	A-30-ALU	4,400	10	50

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





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

- > Out performs all other comparable wheels
- > Cuts most anything from thin-walled shapes to solid shafts
- > For use on high power machines (>10 HP)

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



RIPCUT™

Versatile Cutting on Stationary Cut-Off Machines

Available in several styles, these versatile wheels can tackle anything from thin walled profiles to heavy solids and provide more cuts faster to give you the lowest cost-per-cut in the industry.

RIPCUT

General

purpose TYPE 1



Fe-S-CI
<0.1%



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

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-RIP	5,100	10	50
14"	1/8"	1"	10-A 143	A-24-RIP	4,400	10	30
16"	5/32"	1"	10-A 163	A-24-RIP	3,800	10	30
18"	3/16"	1"	10-A 183	A-24-RIP	3,400	10	20
20"	3/16"	1"	10-A 203	A-24-RIP	3,000	5	10
20"	3/16"	40 mm	10-A 206	A-24-RIP	3,000	5	10
24"	1/4"	40 mm	10-A 246	A-24-RIP	2,550	5	10

RIPCUT STAINLESS

Stainless TYPE 1



Fe-S-CI
<0.1%



Dia.	Thick.	Arbor	Order No.	Grade	Max RPM	Std. Pkg.	Std. Ctn.
12"	1/8"	1"	10-C 123	A-36-SS	5,100	10	50
14"	1/8"	1"	10-C 143	A-36-SS	4,400	10	30
16"	5/32"	1"	10-C 163	A-36-SS	3,800	10	30
20"	3/16"	1"	10-C 203	A-36-SS	3,000	5	10
20"	3/16"	40 mm	10-C 206	A-36-SS	3,000	5	10

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

Faster, more precise cuts on thin gauge metal



ZIPONE™ type 27

Extra thin 0.032" (0.9 mm) cut-off wheel

- ✓ Fastest cuts on thin gauge metal
- ✓ No burrs
- ✓ No overheating of the workpiece
- ✓ Extra thin for precision cutting
- ✓ Ideal for flush cutting

Visit walter.com or contact your Walter representative

 **WALTER**
Surface Technologies



When you choose a WALTER grinding wheel, you are guaranteed the fastest removal rates and longest wheel life in the industry. More importantly, though, our wheels are designed to the highest standards to ensure worker safety. Each wheel is carefully balanced to hug the work piece, minimizing vibration and ensuring maximum operator comfort in even the most demanding grinding applications. Thinner 1/8" wheels are specially designed to ensure safe cutting and intermittent light grinding all in one wheel.

The bottom line is that our grinding wheels and mounted points are designed to provide you with the longest lasting, safest tools in the industry. By maximizing your productivity and minimizing costly downtime, we can demonstrate proven cost savings while minimizing workplace accidents.



A stylized signature of "C. Langlois" in a cursive script, enclosed in a thin rectangular border.

Grinding



XCAVATOR | HP | ALLSTEEL | PIPEFITTER | STAINLESS | ALU | CONCRETE | ACCESSORIES

Grinding: Which Wheel is Right for Me?

High performance

1/4" HP 

For all your steel applications

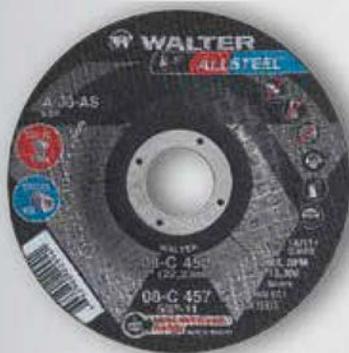
High performance for all day grinding with exceptional smoothness!



ALLSTEEL  

For all your steel and stainless steel applications

The perfect combination of high removal and cool grinding!



Ultra high performance

XCAVATOR  

For all your steel and stainless steel applications

Highest removal rate, especially on hard metals



Extreme performance

HP XX 

For all your steel applications

High removal rate combined with the longest overall life!



ALLSTEEL XX  

For all your steel and stainless steel applications

Highest removal rate for heavy welds and other tough applications!



XCAVATOR™



Ultra High Removal Grinding

XCAVATOR is the newest member of Walter's family of high performance grinding wheels. Joining the ranks with HP, Allsteel, HP XX and Allsteel XX, the XCAVATOR makes its debut on the metal fabricating and finishing scene in spring 2014. XCAVATOR has the highest removal rate of any WALTER grinding wheel and is compatible with all metals (steel, stainless, cast iron, hard alloyed steel, etc.). When the number one priority is high removal, XCAVATOR is the wheel of choice. You will feel the bite of this wheel in every type of metal. **XCAVATOR is the preferred grinding wheel of true professionals!**

Walter's dedication to providing the ultimate in innovation is ensured through rigorous testing; the XCAVATOR is no exception. Confronted with some of the toughest metals in the industry, from tungsten carbide to quenched and tempered steel, the XCAVATOR demonstrated time and time again its capacity for Ultra High Removal. Put some power behind your tool and try the XCAVATOR today!



Available Spring 2014!



Dia.	Thick.	Arbor	Order No.	Grade	Max RPM	Std. Pkg.	Std. Ctn.
4 1/2"	1/4"	5/8"-11 SPIN-ON	08-P 450	A-16-P	13,300	20	80
4 1/2"	1/4"	7/8"-11 Metal Hub	08-P 455	A-16-P	13,300	10	80
4 1/2"	1/4"	7/8"	08-P 460	A-16-P	13,300	25	100
5"	1/4"	5/8"-11 SPIN-ON	08-P 500	A-16-P	12,200	20	80
5"	1/4"	7/8"	08-P 510	A-16-P	12,200	25	100
6"	1/4"	7/8"	08-P 600	A-16-P	10,200	25	100
7"	1/4"	7/8"	08-P 700	A-16-P	8,600	25	50
7"	1/4"	5/8"-11 Metal Hub	08-P 705	A-16-P	8,600	10	40
9"	1/4"	7/8"	08-P 900	A-16-P	6,600	25	50
9"	1/4"	5/8"-11 Metal Hub	08-P 905	A-16-P	6,600	10	40

- > Ultra High Removal Rate
- > Patented UHR multi-layer manufacturing process
- > Advanced design prevents edge flaking (added safety)
- > Fe-Free formulation (guaranteed not to contaminate stainless steel)
- > Optimal power transfer from operator to working surface





- > High performance wheels grind off metal faster
- > Smooth grinding with an aggressive, controlled bite
- > Extra long wheel life

ADDITIONAL BENEFITS OF

- > Spin-on option offers fast and easy changeover for minimum downtime
- > Perfectly centered wheel each and every time for the best performance

Tech tip!

Type 28 grinding wheels can be used at a shallower working angle for maximum operator comfort



1/4" HP™

High Performance 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 take down welds quicker and with less effort with one of the best overall values in grinding.

1/4" TYPE 27

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-HPS	13,300	20	80
4 1/2"	1/4"	5/8"-11 Metal Hub	08-B 455	A-24-HPS	13,300	10	80
5"	1/4"	5/8"-11	08-B 500	A-24-HPS	12,200	20	80
5"	1/4"	5/8"-11 Metal Hub	08-B 505	A-24-HPS	12,200	10	80
6"	1/4"	5/8"-11	08-B 630	A-24-HPS	10,200	20	80
7"	1/4"	5/8"-11 Metal Hub	08-B 715	A-24-HPS	8,600	10	40
9"	1/4"	5/8"-11 Metal Hub	08-B 915	A-24-HPS	6,600	10	40

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

1/4" TYPE 28

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-HPS	13,300	20	80
5"	1/4"	5/8"-11	08-B 501	A-24-HPS	12,200	20	80
7"	1/4"	5/8"-11 Metal Hub	08-B 706	A-24-HPS	8,600	10	40
9"	1/4"	5/8"-11 Metal Hub	08-B 906	A-24-HPS	6,600	10	40

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

1/4" TYPE 27

Dia.	Thick.	Arbor	Order No.	Grade	Max RPM	Std. Pkg.	Std. Ctn.
3"	1/4"	3/8"	08-B 310	A-24-HPS	20,000	25	100
4"	1/4"	3/8"	08-B 410	A-24-HPS	15,000	25	100
4"	1/4"	5/8"	08-B 400	A-24-HPS	15,000	25	100
4 1/2"	1/4"	7/8"	08-B 460	A-24-HPS	13,300	25	100
5"	1/4"	7/8"	08-B 510	A-24-HPS	12,200	25	100
6"	1/4"	7/8"	08-B 600	A-24-HPS	10,200	25	100
7"	1/4"	7/8"	08-B 710	A-24-HPS	8,600	25	50
9"	1/4"	7/8"	08-B 910	A-24-HPS	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-B 701	A-24-HPS	8,600	25	50
9"	1/4"	7/8"	08-B 901	A-24-HPS	6,600	10	40

1/8" HP COMBO™

One wheel for Cutting and Grinding

These 1/8" wheels are among the most versatile in the industry. They are specially reinforced to withstand the stress in off-hand cutting applications, so whether you are cutting, grooving, notching or doing some occasional light grinding, these wheels are guaranteed to provide the longest wheel life, fastest material removal and maximum safety.



1/8" SPIN-ON TYPE 27



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-COMBO	13,300	25	200
4 1/2"	1/8"	5/8"-11 Metal Hub	08-B 457	A-30-COMBO	13,300	10	80
5"	1/8"	5/8"-11	08-B 502	A-30-COMBO	12,200	25	200
5"	1/8"	5/8"-11 Metal Hub	08-B 507	A-30-COMBO	12,200	10	80
6"	1/8"	5/8"-11	08-B 632	A-30-COMBO	10,200	25	100
7"	1/8"	5/8"-11 Metal Hub	08-B 717	A-30-COMBO	8,600	10	40
9"	1/8"	5/8"-11 Metal Hub	08-B 917	A-30-COMBO	6,600	10	40

Always use with flange 30-B 057

- > Ideal for both cutting and light grinding work
- > Hold their cutting edge longer to give you a cutting life beyond compare
- > Equipped with an exclusive metal hub cladding for extra strength and control

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-COMBO	20,000	25	200
4"	1/8"	3/8"	08-B 412	A-24-COMBO	15,000	25	200
4"	1/8"	5/8"	08-B 402	A-24-COMBO	15,000	25	200
4 1/2"	1/8"	7/8"	08-B 462	A-30-COMBO	13,300	25	200
5"	1/8"	7/8"	08-B 512	A-30-COMBO	12,200	25	200
6"	1/8"	7/8"	08-B 602	A-30-COMBO	10,200	25	100
7"	1/8"	7/8"	08-B 712	A-30-COMBO	8,600	25	100
9"	1/8"	7/8"	08-B 912	A-30-COMBO	6,600	25	100



PATENTED INTEGRATED CENTER REINFORCEMENT DESIGN FOR EXTREME TOUGHNESS.





- > Our longest lasting grinding wheel
- > Improved bonding technology and state-of-the-art manufacturing ensure a working life that is unsurpassed — to reach new heights in productivity



ADDITIONAL BENEFITS OF **SPIN-ON**

- > Ultra resistant built-in threaded arbor ensures minimum vibration for maximum operator comfort
- > Minimal need for pin key

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.

1/4" SPIN-ON TYPE 27  

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-X	13,300	20	80
4 1/2"	1/4"	5/8"-11 Metal Hub	08-K 455	A-20-X	12,200	20	80
5"	1/4"	5/8"-11	08-K 500	A-20-X	12,200	20	80
7"	1/4"	5/8"-11 Metal Hub	08-K 705	A-20-X	8,600	10	40
9"	1/4"	5/8"-11 Metal Hub	08-K 905	A-20-X	6,600	10	40

Always use with flange 30-B 057 listed on page 97.

1/4" TYPE 27  

Dia.	Thick.	Arbor	Order No.	Grade	Max RPM	Std. Pkg.	Std. Ctn.
4"	1/4"	3/8"	08-K 410	A-20-X	15,300	25	100
4"	1/4"	5/8"	08-K 400	A-20-X	15,300	25	100
4 1/2"	1/4"	7/8"	08-K 460	A-20-X	13,300	25	100
5"	1/4"	7/8"	08-K 510	A-20-X	12,200	25	100
6"	1/4"	7/8"	08-K 600	A-16-X	10,200	25	100
7"	1/4"	7/8"	08-K 700	A-16-X	8,600	25	50
9"	1/4"	7/8"	08-K 900	A-16-X	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-16-X	8,600	25	50
7"	1/4"	5/8"-11 Metal Hub	08-K 706	A-16-X	8,600	10	40
9"	1/4"	7/8"	08-K 901	A-16-X	6,600	25	50
9"	1/4"	5/8"-11 Metal Hub	08-K 906	A-16-X	6,600	10	40



ALLSTEEL™

Superior Grinding on Steel or Stainless Steel

ALLSTEEL 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.



1/8" TYPE 27



CUTTING ONLY



Dia.	Thick.	Arbor	Order No.	Grade	Max PM	Std. Pkg.	Std. Ctn.
4 1/2"	1/8"	7/8"	08-C 452	A-30-AS	13,300	25	200
4 1/2"	1/8"	5/8"-11 Metal Hub	08-C 457	A-30-AS	13,300	10	80
5"	1/8"	7/8"	08-C 502	A-30-AS	12,200	25	200
5"	1/8"	5/8"-11 Metal Hub	08-C 507	A-30-AS	12,200	10	80
6"	1/8"	7/8"	08-C 602	A-30-AS	10,200	25	100
7"	1/8"	7/8"	08-C 702	A-30-AS	8,600	25	100
7"	1/8"	5/8"-11 Metal Hub	08-C 707	A-30-AS	8,600	10	40
9"	1/8"	7/8"	08-C 902	A-30-AS	6,600	25	100
9"	1/8"	5/8"-11 Metal Hub	08-C 907	A-30-AS	6,600	10	40

1/8" Cutting:

- > Fastest cutting wheel in its class
- > Cool and free cutting
- > Resists bending and twisting for extra safety

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-AS	13,300	25	100
4 1/2"	1/4"	5/8"-11 Metal Hub	08-C 455	A-24-AS	13,300	10	80
5"	1/4"	7/8"	08-C 500	A-24-AS	12,200	25	100
5"	1/4"	5/8"-11 Metal Hub	08-C 505	A-24-AS	12,200	10	80
6"	1/4"	7/8"	08-C 600	A-24-AS	10,200	25	100
7"	1/4"	7/8"	08-C 700	A-24-AS	8,600	25	50
7"	1/4"	5/8"-11 Metal Hub	08-C 705	A-24-AS	8,600	10	40
9"	1/4"	7/8"	08-C 900	A-24-AS	6,600	10	40
9"	1/4"	5/8"-11 Metal Hub	08-C 905	A-24-AS	6,600	10	40

1/4" Grinding:

- > Fast removal rates and cool grinding action for entire life of wheel
- > Excellent comfort and handling
- > Heavily reinforced for absolute safety





- > Exceptional grinding with less pressure and better control
- > Outstanding life in both steel and stainless steel
- > Wheels are balance-controlled within tolerances twice as strict for absolute safety

ALLSTEEL XX™

Exceptional Grinding with Less Effort

More aggressive and longer lasting than our regular ALLSTEEL wheels, these versatile grinding wheels require less pressure to do the same job. ALLSTEEL XX offers the lowest overall cost of grinding when working with stainless 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-ASXX	13,300	25	200
4 1/2"	1/8"	5/8"-11 Metal Hub	08-H 457	A-24-ASXX	13,300	10	80
5"	1/8"	7/8"	08-H 502	A-24-ASXX	12,200	25	200
6"	1/8"	7/8"	08-H 602	A-24-ASXX	10,200	25	200
7"	1/8"	7/8"	08-H 702	A-24-ASXX	8,600	25	100
7"	1/8"	5/8"-11 Metal Hub	08-H 707	A-24-ASXX	8,600	10	40
9"	1/8"	7/8"	08-H 902	A-24-ASXX	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-H 450	A-24-ASXX	13,300	25	100
4 1/2"	1/4"	5/8"-11 Metal Hub	08-H 455	A-24-ASXX	13,300	10	80
5"	1/4"	7/8"	08-H 500	A-24-ASXX	12,200	25	100
6"	1/4"	7/8"	08-H 600	A-24-ASXX	10,200	25	100
7"	1/4"	7/8"	08-H 700	A-24-ASXX	8,600	25	50
7"	1/4"	5/8"-11 Metal Hub	08-H 705	A-24-ASXX	8,600	10	40
9"	1/4"	7/8"	08-H 900	A-24-ASXX	6,600	25	50
9"	1/4"	5/8"-11 Metal Hub	08-H 905	A-24-ASXX	6,600	10	40



PIPEFITTER™

Outstanding Performance in Pipeline Construction

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

3/32" TYPE 27



Fe-S-Cl
<0.1%



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

1/8" TYPE 27



Fe-S-Cl
<0.1%



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

5/32" TYPE 27



Fe-S-Cl
<0.1%



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

SPIN-ON TYPE 27



Fe-S-Cl
<0.1%



Dia.	Thick.	Arbor	Order No.	Grade	Max RPM	Std. Pkg.	Std. Ctn.
5"	3/32"	5/8"-11	08-N 533	A-36-PIPE	12,200	25	200
7"	5/32"	5/8"-11	08-N 709	A-20-PIPE	8,600	10	40
9"	5/32"	5/8"-11"	08-N 909	A-20 PIPE	6,600	10	40



- > 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





1/8" Cutting & Light Grinding:

- > High performance cutting and intermittent light grinding
- > Maintains a superior cutting edge for the entire life of the wheel

ADDITIONAL BENEFITS OF **SPIN-ON**

- > Spin-on system allows for fast and easy changeover of for minimum downtime
- > Perfectly centered wheel each and every time for best performance

STAINLESS™

Superior Performance on Stainless Steel

The name says it all! When you need a wheel that is guaranteed not to contaminate stainless steel, this is the wheel for the job. These wheels hug the work piece for controlled grinding and a smooth, high quality finish.

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

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-SS COMBO	13,300	25	200
4 1/2"	1/8"	5/8"-11 Metal Hub	08-F 457	A-30-SS COMBO	13,300	10	80
5"	1/8"	5/8"-11	08-F 502	A-30-SS COMBO	12,200	25	200
7"	1/8"	5/8"-11 Metal Hub	08-F 707	A-30-SS COMBO	8,600	10	40

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-SS COMBO	13,300	25	200
5"	1/8"	7/8"	08-F 512	A-30-SS COMBO	12,200	25	200
6"	1/8"	7/8"	08-F 602	A-30-SS COMBO	10,200	25	100
7"	1/8"	7/8"	08-F 702	A-30-SS COMBO	8,600	25	100
9"	1/8"	7/8"	08-F 902	A-30-SS COMBO	6,600	25	100

Always use 1/8" wheels with flange 30B057.

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

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-SS	13,300	20	80
4 1/2"	1/4"	5/8"-11 Metal Hub	08-F 455	A-30-SS	13,300	10	80
5"	1/4"	5/8"-11	08-F 500	A-30-SS	12,200	20	80
7"	1/4"	5/8"-11 Metal Hub	08-F 705	A-30-SS	8,600	10	40
9"	1/4"	5/8"-11 Metal Hub	08-F 905	A-30-SS	6,600	10	40

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-SS	13,300	25	100
5"	1/4"	7/8"	08-F 510	A-30-SS	12,200	25	100
6"	1/4"	7/8"	08-F 600	A-30-SS	10,200	25	100
7"	1/4"	7/8"	08-F 700	A-30-SS	8,600	25	50
9"	1/4"	7/8"	08-F 900	A-30-SS	6,600	25	50

1/4" **SPIN-ON** TYPE 28

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-SS	13,300	20	80
5"	1/4"	5/8"-11	08-F 501	A-30-SS	12,200	20	80

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

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-ALU	13,300	25	200
5"	1/8"	7/8"	08-L 502	A-24-ALU	12,200	25	200
6"	1/8"	7/8"	08-L 602	A-24-ALU	10,200	25	100
7"	1/8"	7/8"	08-L 702	A-24-ALU	8,600	25	100
7"	1/8"	5/8"-11 Metal Hub	08-L 707	A-24-ALU	8,600	10	40
9"	1/8"	7/8"	08-L 902	A-24-ALU	6,600	25	100
9"	1/8"	5/8"-11 Metal Hub	08-L 907	A-24-ALU	6,600	10	40

1/8" Cutting & Light Grinding:

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

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-ALU	13,300	25	100
4 1/2"	1/4"	5/8"-11 Metal Hub	08-L 455	A-24-ALU	13,300	10	80
5"	1/4"	7/8"	08-L 500	A-24-ALU	12,200	25	100
6"	1/4"	7/8"	08-L 600	A-24-ALU	10,200	25	100
7"	1/4"	7/8"	08-L 700	A-24-ALU	8,600	25	50
7"	1/4"	5/8"-11 Metal Hub	08-L 705	A-24-ALU	8,600	10	40
9"	1/4"	7/8"	08-L 900	A-24-ALU	6,600	25	50
9"	1/4"	5/8"-11 Metal Hub	08-L 905	A-24-ALU	6,600	10	40

1/4" Grinding:

- > Fast removal rate and long wheel life
- > No clogging in any type of aluminum

CONCRETE™

High Performance Grinding

These wheels have multiple high strength reinforcements and a matched super tough bond for extra safety in tough grinding applications. They are made for fast, smooth grinding of concrete, masonry, stone and similar building materials.

1/4" TYPE 27 



Dia.	Thick.	Arbor	Order No.	Grade	Max RPM	Std. Pkg.	Std. Ctn.
7"	1/4"	7/8"	08-E 700	C-24	8,600	25	50
7"	1/4"	5/8"-11	08-E 705	C-24	8,600	10	40

- > Superior performance in hard facing and cast iron
- > Excellent control in demanding applications
- > Extra hard silicon carbide grain for fast material removal and long wheel life

HP cup wheels

Maximum Life and Safety

The heavy-duty wheels are perfect for rough grinding or snagging work on concrete or steel. A deeply anchored wrap-around steel hub ensures maximum life and safety, and the 5/8"-11 threaded arbor allows for quick spin-on mounting.

TYPE 11 



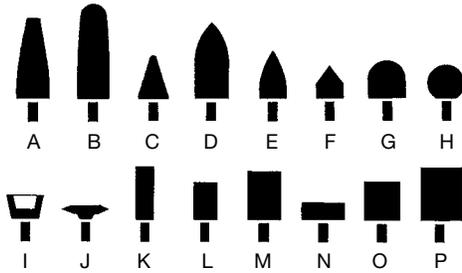
Dia.	Arbor	Order No.	Max RPM	Std. Pkg.	Std. Ctn.
4"	5/8"-11	12-A 004	9,100	1	10
5"	5/8"-11	12-A 005	8,600	1	10
6"	5/8"-11	12-A 006	6,800	1	10



- > For heavy-duty grinding with excellent wheel life



- > For fitting, shaping or enlarging holes and finishing work in confined spaces
- > For use on die grinders, point grinders, flexible shaft machines, etc.



Accessories

Dressing stones

Dimensions	Order No.	Std pkg	Std Ctn
2 3/4" x 5/8" x 5/16"	12-D 900	1	10
4" x 1" x 1/2"	12-D 901	1	10



Mounted points

Our mounted points are specially crafted to provide long life and minimal vibration so you can work longer and more comfortably. No matter the application or the material you are working with, we have a mounted point to get the job done.

Orange



Mild steel and cast iron

Illus. Dia.	Length	Order No.	Type	Max RPM*	Std. Pkg.	Std. Ctn.	
A	3/4"	2 1/2"	12-D 002	A-1	19,800	1	10
B	1"	2 3/4"	12-D 012	A-3	16,100	1	10
C	3/4"	1 1/8"	12-D 022	A-5	45,000	1	10
D	7/8"	2"	12-D 032	A-11	19,860	1	10
E	1 1/16"	1 1/4"	12-D 037	A-12	48,000	1	10
F	1 1/16"	7/8"	12-D 047	A-14	55,560	1	10
G	1"	1"	12-D 057	A-21	34,500	1	10
H	1"	1"	12-D 077	A-25	35,620	1	10
I	1"	5/8"	12-D 092	A-32	38,200	1	10
J	1 1/4"	1/4"	12-D 117	A-37	30,560	1	10
K	3/8"	1 1/4"	12-D 592	W-179	45,750	1	10
L	5/8"	1"	12-D 677	W-196	35,250	1	10
M	3/4"	1"	12-D 722	W-205	34,500	1	10
N	1"	3/8"	12-D 782	W-217	38,200	1	10
J	1"	1"	12-D 797	W-220	25,500	1	10
P	1"	2"	12-D 807	W-222	15,900	1	10

Pink



Tool and high tensile steel

A	3/4"	2 1/2"	12-D 001	A-1	19,800	1	10
B	1"	2 3/4"	12-D 011	A-3	16,100	1	10
C	3/4"	1 1/8"	12-D 021	A-5	45,000	1	10
D	7/8"	2"	12-D 031	A-11	19,860	1	10
E	1 1/16"	1 1/4"	12-D 036	A-12	48,000	1	10
F	1 1/16"	7/8"	12-D 046	A-14	55,560	1	10
G	1"	1"	12-D 056	A-21	34,500	1	10
H	1"	1"	12-D 076	A-25	35,620	1	10
I	1"	5/8"	12-D 091	A-32	38,200	1	10
J	1 1/4"	1/4"	12-D 116	A-37	30,560	1	10
K	3/8"	1 1/4"	12-D 591	W-179	45,750	1	10
L	5/8"	1"	12-D 676	W-196	35,250	1	10
M	3/4"	1"	12-D 721	W-205	34,500	1	10
N	1"	3/8"	12-D 781	W-217	38,200	1	10
O	1"	1"	12-D 796	W-220	25,500	1	10
P	1"	2"	12-D 806	W-222	15,900	1	10

Brown



B	1"	2 3/4"	12-D 013	A-3	16,100	1	10
C	3/4"	1 1/8"	12-D 023	A-5	45,000	1	10
D	7/8"	2"	12-D 033	A-11	19,860	1	10
E	1 1/16"	1 1/4"	12-D 038	A-12	48,000	1	10
G	1"	1"	12-D 058	A-21	34,500	1	10
H	1"	1"	12-D 078	A-25	35,620	1	10
K	3/8"	1 1/4"	12-D 593	W-179	45,750	1	10
L	5/8"	1"	12-D 678	W-196	35,250	1	10
M	3/4"	1"	12-D 723	W-205	34,500	1	10
N	1"	3/8"	12-D 783	W-217	38,200	1	10
O	1"	1"	12-D 798	W-220	25,500	1	10

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



Bench grinding wheels

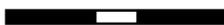
Our bench grinding wheels are perfect for general purpose grinding on bench and pedestal grinders. Each wheel comes with a set of nested reducer bushings to fit on 1/2", 5/8", 3/4" or 1" shafts.

TYPE 1



Dia.	Thickness	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
7"	1 1/4"	1"	12-E 454	36 coarse	3,600	1	1
7"	1 1/4"	1"	12-E 457	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 653	24 coarse	2,500	1	1
10"	1 1/4"	1"	12-E 657	60 fine	2,500	1	1

TYPE 1



Dia.	Thickness	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
7"	1 1/4"	1"	12-E 459	80 fine	3,600	1	1
8"	7/8"	1"	12-E 539	80 fine	3,600	1	1
8"	1"	1"	12-E 549	80 fine	3,600	1	1
8"	1 1/4"	1"	12-E 559	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

Weld blending is one of the most common applications in metal fabrication. However, it's also one of the most misunderstood. There is no "one size fits all" approach to blending a weld. The type of metal, type of weld and desired finish all affect which abrasive would best suit your application. That's why we at WALTER offer a variety of solutions to help you achieve the perfect finish in the most efficient manner.

Take a look at what we have to offer. If you have any questions, our highly trained staff is here to help. We can even perform a FREE consultation at your facility, take a look at your process and offer practical recommendations to save you time and money. That's the WALTER way.

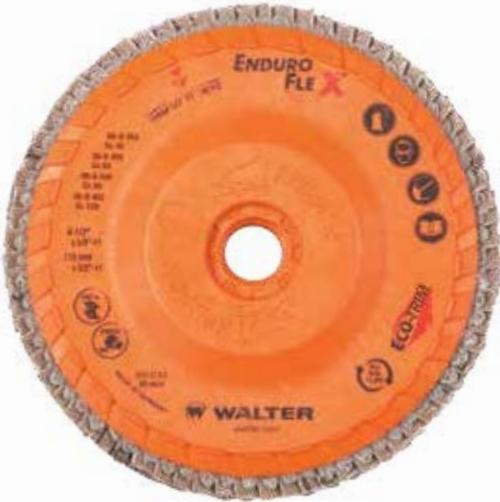


Blending

ENDURO-FLEX | ENDURO-FLEX STAINLESS | ENDURO-FLEX TURBO | ENDURO-FLEX 2-IN-1 | FLEXCUT | FLEXCUT MILL SCALE



Save time, money & the environment with ENDURO-FLEX



A percentage of all ENDURO-FLEX sales are used to fund the planting of new trees to regenerate forests for future generations.

Walter Surface Technologies has been leading the industry in green initiatives for years. Our BIO-CIRCLE line of environmentally-friendly industrial chemicals has helped to improve the lives of thousands of workers while reducing the industrial waste stream for companies worldwide. Now, we have brought that same passion and initiative to our abrasive line with the introduction of our new and improved ECO-TRIM backing to our ENDURO-FLEX and ENDURO-FLEX STAINLESS flap discs.

Unlike traditional fiberglass or plastic backing pads, our patented ECO-TRIM backing is made from a renewable wood fiber that reduces the industrial waste stream. As the name suggests, ECO-TRIM can be trimmed back to expose fresh abrasive grain, significantly extending the life of our flap discs and further reducing waste. As an added sign of our commitment to the environment, a portion of the proceeds from each ENDURO-FLEX product sold will go towards funding the planting of new trees to regenerate forests for future generations.

Go green, cut your costs and improve productivity with the new ENDURO-FLEX with ECO-TRIM backing.



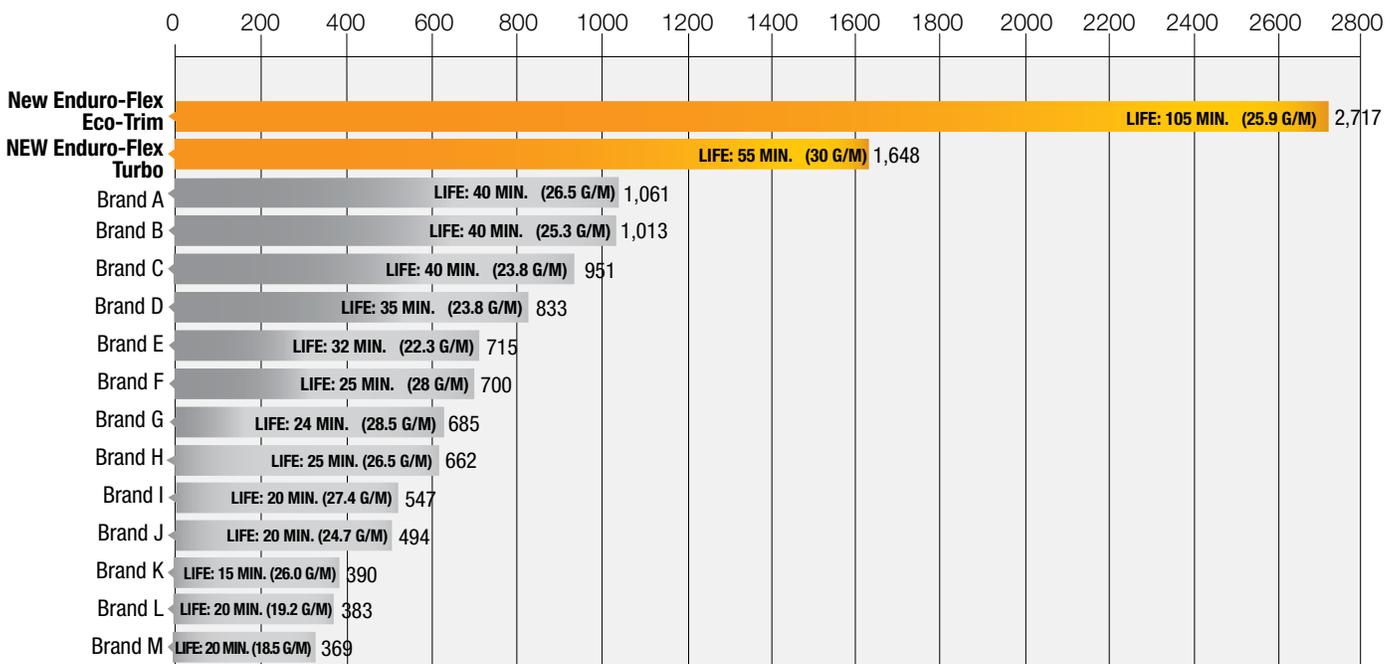
- ✓ Be innovative.
- ✓ Be efficient.
- ✓ Reduce your waste stream.
- ✓ Choose ENDURO-FLEX!

**THE LONGEST
LASTING
FLAP DISCS
ON THE MARKET**



NEW ENDURO-FLEX AND ENDURO-FLEX TURBO
COMPARATIVE TEST BETWEEN 5" FLAP DISCS, 40 GRIT

Total quantity of grams removed on steel





New disc



After 35 min.*



After 100 min.*

* Based on average material removal in steel.



- > 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



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 a new 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 bottom line: switch to orange and save some green.

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 a backing flange 30-B 057.



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
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

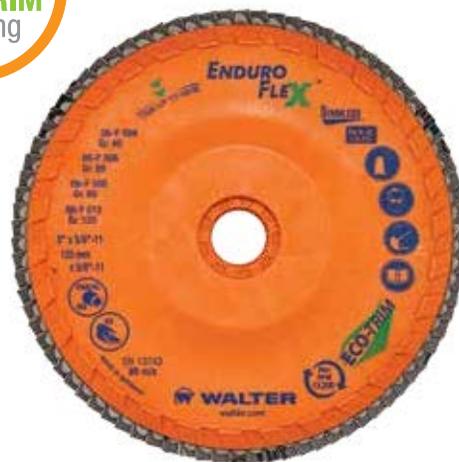
Always use with a backing flange 30-B 057.

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, aluminum and other sensitive alloys.



SPIN-ON



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 a backing flange 30-B 057.

- › Specially formulated for use on heat sensitive metals such as stainless steel and aluminum
- › Fe-free abrasive cloth
- › Consistent finish without any discoloration
- › Will not load up or glaze; will outperform any other flap disc on aluminum



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 a backing flange 30-B 057.





ENDURO-FLEX Turbo™

The Fastest Removal Rate in the Industry

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 work piece, increasing product life and minimizing heat transfer to the surface. Whether you are working with steel, stainless steel, aluminum or other non-ferrous alloys, ENDURO-FLEX TURBO will help you blend welds and break edges faster guaranteed.

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



Dia.	Arbor	Grit	Order No.	Max RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"-11	36/60	06-A 452	13,300	10	40
5"	5/8"-11	36/60	06-A 502	12,200	10	40
6"	5/8"-11	36/60	06-A 602	10,200	10	40

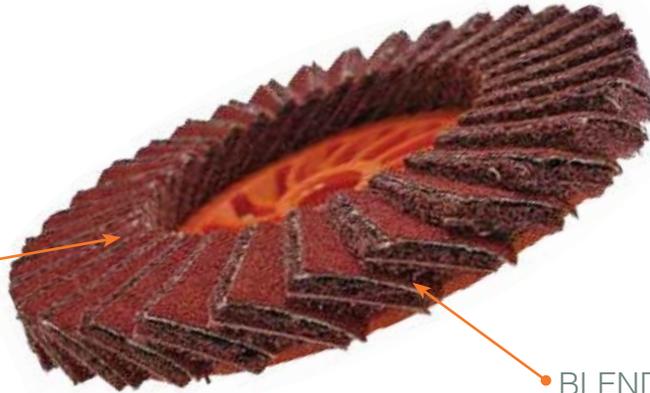
Always use with a backing flange 30-B 057.



ENDURO-FLEX 2-in-1™ finishing disc

Blend and Finish in One Easy Step

These long-lasting discs were designed to save you time by eliminating multiple steps in the finishing process. ENDURO-FLEX 2-IN-1 will remove TIG welds and finish the surface in just one step so you don't need to waste time switching out numerous discs to achieve the same result. In addition, ENDURO-FLEX 2-IN-1 can also break edges, blend and remove surface imperfections such as oxidation and discoloration. Save time and reduce your inventory costs with one disc that can perform the same functions as over 20 conventional discs with ENDURO-FLEX 2-IN-1.



Sanding flaps

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

BLENDLEX flaps

- > Allows operators to achieve a food grade finish
- > Non-woven material, will not smear or contaminate the work piece
- > Tear resistant for longest life



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



Tech tip!

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

PRESSURE Higher pressure will increase removal rate while a lower pressure will improve the surface finish

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

FLEXCUT™

Performance Grinding on Curved Surfaces

Nothing comes close to the performance of FLEXCUT when grinding or blending welds on curved surfaces. FLEXCUT is specially designed to provide maximum control and easy handling on sensitive work surfaces. The deep diamond-cut pattern allows for quick, easy material removal so that you don't have to sacrifice productivity while also allowing FLEXCUT to run cool enough to be used on heat-sensitive metals such as stainless steel and aluminum.



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
SPIN-ON						
4 1/2"	5/8"-11	A-36-X-FLEX	15-L 453	13,300	25	200
4 1/2"	5/8"-11	A-60-X-FLEX	15-L 456	13,300	25	200
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	200
5"	5/8"-11	A-60-X-FLEX	15-L 506	12,200	25	200
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
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.

Fe-S-CI
<0.1%



Dia.	Arbor	Grit	Order No.	Max RPM	Std. Pkg.	Std. Ctn.
4 1/2"	7/8"	A-36-X-FLEX	15-L 463	13,300	25	200



Deep Diamond-Cut™ pattern and optimized formulation offer:

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



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.

SPIN-ON

Fe-S-GI
<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	200
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
7"	7/8"	15-L 873	A-36-FLEX	8,600	25	100



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



At Walter Surface Technologies, we understand that the quality of a welded piece is highly dependent on the products that are used in the process. Our line of anti-spatter solutions, emulsions and gels are designed with safety and productivity in mind. With exclusive formulas, many manufactured using natural plant extracts, Walter provides solutions that are VOC-free and create a healthier work environment for welders. A safer and more productive welding process translates into higher quality and lower costs.



C. Langlois

Welding



SURFOX | AF-WELD | E-WELD | ACCESSORIES



SURFOX™

WELD CLEANING SYSTEM FOR STAINLESS STEEL

The safest and most efficient way to clean and passivate stainless steel welds

The SURFOX electrochemical weld cleaning system is a highly effective method of removing heat tint from welded stainless steel while passivating the surface.

SURFOX is safer, faster and more effective than hazardous pickling pastes or abrasive weld cleaning processes and will not scratch or alter the surface.

This innovative system is:

- ◆ **SAFE** SURFOX cleaning electrolytes are NSF registered to be used in food plants and pose no health hazards for operators.
- ◆ **FAST** Uniform cleaning and passivation at a rate of 3 to 5 feet per minute.
- ◆ **EASY TO USE** The integrated reservoir and dispensing pump automatically deliver the cleaning electrolyte to the tip of the SURFOX machine to ensure no interruption in the cleaning process.

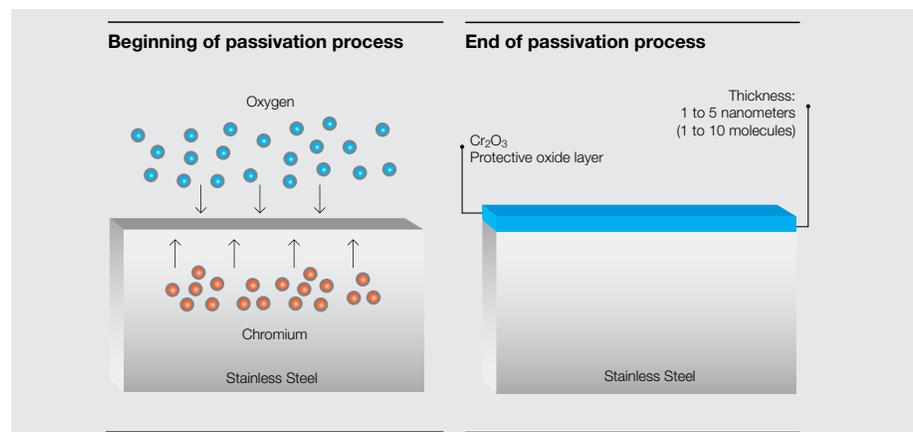
Passivation

Why is passivation important?

Stainless steel is 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 and avoid any interference in the passivation process, the heat tint and other surface contaminants must be removed.

SURFOX is a safe, effective and fast electrochemical cleaning system. 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 stabilized and complete.





SURFOX™ 204

Versatile Production Unit

This is the premium Surfox model. This workhorse will keep you up and running through all three shifts while providing the most options to fit your ever-changing job requirements. With the addition of a DC mode, SURFOX 204 has additional capabilities, such as etching and polishing stainless steel, that are not available with the Surfox 104. Its vapor elimination system provides the healthiest work environment possible, and its self-regulating inverter board ensures that the system is consistently functioning at a high level.



Order No. 54-D 214.

Standard equipment

- › 3 cleaning pads
- › 1 clamp ring
- › 1 tungsten insert
- › 1 ground wire with clamp
- › 1 carrying case

Unit Features:

- › Easy-to-use dial for selecting the appropriate current for each application
- › Ergonomic wand also contains pump on/off switch for ease of use
- › Electrical outlet for optional marking/etching hand piece (hand piece not included)
- › Variable output: AC mode for cleaning and marking, DC mode for polishing and etching
- › Built-in vapor elimination system (for confined areas)

Also available as a kit with the carbon fiber brush and Micro-Wand (54-B 133) for small, narrow areas.



SURFOX™ 104

The perfect unit for everyday use

This SURFOX unit is designed for continual use in a production environment while shedding features that may be unnecessary for your line of work. SURFOX 104 is capable of cleaning, passivating and marking stainless steel but cannot etch or polish like SURFOX 204. Nevertheless, this unit will deliver consistent performance thanks to its self-regulating inverter board and internal reservoir. Deliver consistent performance in an easy-to-use package with SURFOX 104.

Order No. 54-D 114

Standard equipment

- › 3 cleaning pads
- › 1 clamp ring
- › 1 tungsten insert
- › 1 drip guard
- › 1 ground wire with clamp
- › 1 carrying case

The unit comes with:

- › Ergonomic wand also contains pump on/off switch for ease of use
- › Electrical outlet for optional marking hand piece (hand piece not included)

Also available as a kit with the carbon fiber brush and Micro-Wand (54-B 133) for small narrow areas.



MINI SURFOX™

Portable Unit for Occasional Use & Field Work

SURFOX MINI is designed to provide a lightweight, portable solution for all your weld cleaning needs. This recently upgraded unit now features a self-regulating inverter board like the larger models, helping to ensure consistent performance while making SURFOX MINI easier to use than ever before. Whether you just need to do occasional touch up work or require a unit that you can take into the field for on-site jobs and repairs, SURFOX MINI can help you get the job done faster and safer.

Order No. 54-D 054

Standard equipment

- › 1 tungsten insert
- › 1 carbon fiber brush
- › 1 clamp ring
- › 1 standard cleaning pad
- › 1 ground wire with clamp
- › 1 carrying case

SURFOX unit specifications

Model	Order No.	Electrical		Dimensions			Tank capacity	Length of hose	Weight
		Input	Output	Length	Width	Height			
MINI	54-D 054	120 V, 50/60 Hz, 1.5 A	10-30V AC/DC	12"	4 1/2"	8.86"	–	–	8.4 lbs
104	54-D 114	120 V, 50/60 Hz, 4.0 A	30V AC, 12A	18 1/2"	9 3/4"	15"	64.2 ounces	13 feet	36.4 lbs
204	54-D 214	120 V, 50/60 Hz, 4.0 A	10-30V AC/DC, 15A	18 1/2"	9 3/4"	15"	64.2 ounces	13 feet	38 lbs

SURFOX-G™

pH Neutral Solution

Must be used with the high conductivity pads or boots.

Features

- › Cleans TIG and spot welds on stainless steel
- › pH neutral, non-acidic
- › Less fumes
- › Safe alternative to pickling paste and strong acids
- › Non-corrosive
- › Salt-based
- › Compatible with all SURFOX machines
- › Lower environmental impact



SURFOX-T™

Heavy Duty Solution

For the best performance, use with the high conductivity pads or boots.

Features

- › Cleans tough TIG and pulsed MIG welds on stainless steel
- › Safe alternative to pickling paste and strong acids
- › SCAQMD compliant



SURFOX-N™

Cleaning and Neutralizing Solution

Features

- › Must be used to clean and neutralize all SURFOX electrolyte solutions
- › SCAQMD compliant



Description	Size		Order No.	MSDS	Std Pkg
	Metric	US Gal			
SURFOX-T	100 ml	3.4 oz	54-A 001	S-01E	1
SURFOX-T	1.5 L	51 oz	54-A 005	S-01E	4
SURFOX-T	20 L	5.2 gal	54-A 007	S-01E	1
SURFOX-T	208 L	55 gal	54-A 008	S-01E	1
SURFOX-G	100 ml	3.4 oz	54-A 061	S-10E	1
SURFOX-G	1.5 L	51 oz	54-A 065	S-10E	4
SURFOX-G	20 L	5.2 gal	54-A 067	S-10E	1
SURFOX-G	208 L	55 gal	54-A 068	S-10E	1
SURFOX-N	500 ml	16.9 oz	54-A 023	S-03E	12
SURFOX-N	20 L	5.2 gal	54-A 027	S-03E	1
SURFOX-N	208 L	55 gal	54-A 028	S-03E	1

SURFOX™ accessories

For MINI SURFOX



Tungsten insert 90°
Order No.: 54-B 036
 Use with cleaning pads 54-B 026 or 54-B 040 and clamp ring 54-B 002, or boots 54-B 005 or 54-B 055



Tungsten insert 60°
Order No.: 54-B 037
 Use with cleaning pad 54-B 027 and clamp ring 54-B 002 or boots 54-B 006 or 54-B 056



Large graphite insert for Micro-Wand
Order No.: 54-B 048
 1.4" W - Ideal for surface renewing or restoring, and to clean the back of MIG welds



Narrow tungsten insert 90°
Order No.: 54-B 038
 Use with cleaning pads 54-B 028 or 54-B 041 and clamp ring 54-B 020, or boots 54-B 007 or 54-B 057



Narrow tungsten insert 60°
Order No.: 54-B 039
 Use with cleaning pad 54-B 028 and clamp ring 54-B 020 or boots 54-B 008 or 54-B 058



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

Electrolyte straw
Order No.: 48-R 294
 10 per package



Tungsten insert kit for MINI SURFOX
Order No.: 54-B 042
 Includes:
 1 x 54-B 036
 1 x 54-B 037
 1 x 54-B 038
 1 x 54-B 039



For SURFOX 104 and 204



Tungsten insert 90°
Order No.: 48-R 133
 Use with cleaning pads 54-B 026 or 54-B 040 and clamp ring 54-B 002, or boots 54-B 005 or 54-B 055



Tungsten insert 60°
Order No.: 54-B 016
 Use with cleaning pad 54-B 027 and clamp ring 54-B 002 or boot 54-B 006 or 54-B 056



Narrow tungsten insert 90°
Order No.: 54-B 017
 Use with cleaning pads 54-B 028 or 54-B 041 and clamp ring 54-B 020, or boots 54-B 007 or 54-B 057



Narrow tungsten insert 60°
Order No.: 54-B 018
 Use with cleaning pad 54-B 028 and clamp ring 54-B 020 or boot 54-B 008 or 54-B 058



Large graphite insert for SURFOX 204
Order No.: 54-B 009
 1.8" W - Ideal for surface renewing or restoring, and to clean the back of MIG welds



Large pads for large graphite insert
Order No.: 54-B 043
 3.5" L x 2" W x 0.8" T
 Pack of 10 with O-ring

Tungsten insert kit for SURFOX 104 and 204
Order No.: 54-B 012
 Includes:
 1 x 48-R 133
 1 x 54-B 017
 1 x 54-B 016
 1 x 54-B 018



For all models



Narrow clamp ring for narrow pads
Order No.: 54-B 020
 Use with narrow inserts 54-B 017, 54-B 018, 54-B 038 and 54-B 039
 10 per package



Clamp ring for cleaning pads
Order No.: 54-B 002
 Use with inserts 48-R 133, 54-B 016, 54-B 036 and 54-B 037
 10 per package



Carbon fiber brush for micro-wand
Order No.: 54-B 029
 Ideal for tight corners and intricate areas. Pack of 5

SURFOX POWERCLOTH
Order No.: 54-B 090
 Pack of 10



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

SURFOX station **Order No.:** 54-B 050

Increased Efficiency for Production Units

This sturdy, portable workstation was designed from the ground up to offer convenient storage and handling for all things SURFOX. Keep your work area neat and organized while increasing the portability of your SURFOX 104 or 204 unit with the new SURFOX STATION.



SURFOX™ accessories

High conductivity cleaning boots

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



Cleaning boot for inside corners 90°
Order No.: 54-B 055
 Use with inserts 48-R 133 or 54-B 036
 10 per package



Cleaning boot for inside corners 60°
Order No.: 54-B 056
 Use with inserts 54-B 016 or 54-B 037
 10 per package



Narrow cleaning boot 90°
Order No.: 54-B 057
 Use with inserts 54-B 017 or 54-B 038
 10 per package



Narrow cleaning boot 60°
Order No.: 54-B 058
 Use with inserts 54-B 018 or 54-B 039
 10 per package



Cleaning boots kit
Order No.: 54-B 059
 Includes: 10 of each boot 54-B 055, 54-B 056,
 54-B 057 and 54-B 058

Classic cleaning pads

Designed to be used with SURFOX-T liquid



Standard cleaning pad
Order No.: 54-B 040
 Use with inserts 48-R 133
 and 54-B 036
 10 per package (includes 1 clamp ring)



Narrow cleaning pad
Order No.: 54-B 041
 Use with inserts 54-B 017
 and 54-B 038
 10 per package (includes 1 clamp ring)

Classic cleaning boots



Cleaning boot for inside corners 90°
Order No.: 54-B 005
 Use with inserts 48-R 133
 and 54-B 036, 5 per package



Cleaning boot for inside corners 60°
Order No.: 54-B 006
 Use with inserts 54-B 016
 and 54-B 037, 5 per package



Narrow cleaning boot 90°
Order No.: 54-B 007
 Use with inserts 54-B 017
 and 54-B 038, 5 per package



Narrow cleaning boot 60°
Order No.: 54-B 008
 Use with inserts 54-B 018
 and 54-B 039, 5 per package

High conductivity cleaning pads

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



Standard cleaning pad
Order no: 54-B 026
 1.8" L x 0.9" W x 0.15" H
 Use with inserts 48-R 133
 and 54-B 036
 10 per package plus
 clamp ring



Inside corners cleaning pad
Order no: 54-B 027
 2.3" L x 1.4" W x 0.07" H
 Use with inserts 54-B 016
 and 54-B 037
 10 per package plus
 clamp ring



Narrow cleaning pad
Order No.: 54-B 028
 1.8" L x 0.9" W x 0.07" H
 Use with inserts 54-B 017,
 54-B 018, 54-B 038
 and 54-B 039
 10 per package plus
 clamp ring

For MINI SURFOX

Cartridge refiller for MINI SURFOX
Order No.: 54-B 092

For SURFOX 104



Drip guard
Order No.: 54-B 003
 1 per package



SURFOX™ marking kits

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.

PRO kit - For Custom Graphics & Maximum Flexibility.

Order no. 54-B 081

The PRO MARKING KIT gives you the flexibility to print your own custom stencils through special, easy-to-use computer software and a thermal printer. This kit is perfect for applying bar codes, serial numbers and any other text or graphics to your work.

Packaged in a professional and sturdy casing, the kit includes:

- › Marking wand and black cable
- › Pack of 20 marking pads, 5 o-rings and 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 roll of stencil paper 20 meter (65.6')

Standard kit - For Consistent Graphics, Logos, etc.

Order no. 54-B 080

The STANDARD KIT requires the use of permanent stencils which can be ordered directly from Walter Surface Technologies. This kit is perfect for applying logos, certifications and other text or graphics that remain consistent from one work piece to the next.

The standard kit includes:

- › Marking wand and power cable
- › Pack of 20 marking pads, 5 O-rings and 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)



Marking kits accessories



SURFOX-M marking solution
100 ml squeeze bottle
No. 54-A 031
Also available in 5 L format
No. 54-A 036



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



Stencil paper roll
65.6' L x 4" W
No. 54-B 086
164' L x 4" W
No. 54-B 087



Marking wand
No. 54-B 082



Marking pads
Pack of 20
No. 54-B 083



Graphite marking insert
No. 54-B 088



Power cable
No. 54-B 063



O-rings
Pack of 5
No. 54-B 089



PERMANENT STENCILS

Custom made stencils from a .bmp, .jpg, .tiff, .dmg, .ai, .cdr, .doc, .pdf document. Many sizes are available. Permanent stencils are ideal for the marking of your company logo and address as well as other recurring information from one part to another. Permanent stencils can be reused hundreds of times if well maintained. For increased durability, neutralize the stencil with SURFOX-N and rinse after use and store in a sealable jar of water.

DISPOSABLE STENCILS

Disposable stencils are ideal for serial numbers, lots and batch numbers, barcodes, QR codes and other information that require constant change and evolution. You may now print labels on which the data changes for each label, for example, counter, serial numbers, date, and time. Use it once and dispose of it. Printing disposable stencils has never been easier with the PRO marking kit that includes a thermal printer and stencil paper rolls to suit your needs.

SURFOX™ testing devices

Passivation tester

Order no. 54-T 010

Improve Your Quality Control and Avoid Costly Rework

An electro-chemical testing device that provides a recordable data reading to verify your work piece is passivated for quality control purposes.

- › Monitor, measure and guarantee the passivation level on workpieces or finished goods
- › Exceeds customers' standards
- › Minimize costly downtime caused by reworks
- › Record and store information

Product description

- › Testing device
- › Data entry software with USB port
- › Disposable felt tips

Accessories

- › Replacement cartridge: **54-A 050**
- › White felt tips: **54-B 046** (Pkg 5)



A negative value indicates that the protective layer is damaged or non-existent.

A value of zero and above indicates that the surface is passivated.

The read out is a quantitative representation of the quality and thickness of the protective chromium oxide layer.



Positive reading



Negative reading

Stainless steel grade identification tester

Order no. 54-T 001

Improve your quality control process

There are many types of stainless steel, mainly grouped into three categories, or grades: 200, 300 and 400.

Since it is impossible to differentiate 200, 304, 316 and 400 grade stainless steel based on sight alone, WALTER has developed a test kit that can help you to instantly identify the grade of stainless steel you are working with.

Product description

- › Testing device
- › Contains two chemicals that help identify the grade of stainless steel being tested
- › Blotting paper

Accessories

- › Manganese cartridge: **54-A 052**
- › Blotter papers: **54-B 044** (Pkg 100)
- › White felt tips: **54-B 045** (Pkg 5)
- › Molybdenum reagent: **54-A 051** (100 ml)





Achieve Premium Welding Results with Air Force AF-WELD™

Premium anti-spatter system

Air Force AF-Weld is a state of the art anti-spatter which protects work-pieces from the adherence of spatter. AF-Weld is the only anti-spatter on the market which will help you achieve porosity-free, crack-free welds while drastically reducing your environmental impact. Compressed air is the propellant, and you eliminate the disposal of empty aerosol cans.

AF-Weld anti-spatter retracts in the presence of heat, leaving the immediate welding area clean and void of liquid. This effectively prevents anti-spatter liquid from chemically interacting with the weld pool during fusion. AF-Weld improves productivity and weld quality!

Benefits

- › Porosity-free
- › No weld cracking
- › Corrosion resistant
- › Allows immediate painting

Features

- › VOC-free, solvent-free and silicone-free, biodegradable
- › Formulation based on natural plant extracts
- › Pleasant citrus scent
- › 10 L (2.6 gal) innovative bag-in-box packaging for low environmental impact
- › Large 208 L (55 gal) format for even greater cost savings!
- › Effective welding amperage range: 100-225 A

Value-added

- › Create a healthier and safer work environment
- › Reduce your chemical waste stream
- › Lower operating costs
- › Increase quality of welds
- › Increase welder productivity



Description	Size		Order No.	MSDS	Std Pkg
	Metric	US Gal			
Bag-in-box	10 L	2.6 gal	57-F 005	L-141E	1
Drum	208 L	55 gal	57-F 008	L-141E	1
Refillable sprayer bottle	300 ml	10 oz	57-B 110	L-141E	1
Replacement valve kit			57-B 001		1

Air Force AF-WELD™ kits

A unique, eco-friendly and cost efficient anti-spatter system

Benefits

- › The Air Force station is safe, convenient, effective and very easy to use
- › The safety and cost-effectiveness of bulk packaging
- › Convenience of aerosols
- › No more disposal of hazardous aerosol cans
- › Environmentally friendly



Did you know...

A 10L (2.6 gal) bag-in-box of AF-Weld anti-spatter replaces as many as 36 aerosol cans. AF-Weld reduces costs associated with storage, handling and disposal while utilizing the most effective anti-spatter on the market.

Air Force AF-WELD Bag-in-Box Starter kit

Order no. 57-D 110 K

Includes:

- › Use of Walter Air Force station*
- › 4 x 2.6 gal of AF-WELD liquid
- › 2 x refillable AF-WELD bottles
- › 1 year of CARE service preventative maintenance
- › Customer Service help desk
- › Walter's commitment to Life Cycle Stewardship of the Air Force station
- › Free shipping



4x

2x

Air Force AF-WELD Drum Starter kit

Order no. 57-D 210 K

Includes:

- › Use of Walter Air Force station*
- › 1 x 55 gal of AF-WELD liquid
- › 6 x refillable AF-WELD bottles
- › 1 year of CARE service preventative maintenance
- › Customer Service help desk
- › Walter's commitment to Life Cycle Stewardship of the Air Force station
- › Free shipping



1x

6x

*Air Force station remains the property of Walter. A usage agreement will need to be signed between the customer and Walter upon purchase on any Air Force System.

NEW
+40%
ACTIVE INGREDIENTS

- › 40% more active ingredients (aerosol only)



E-WELD™



General Purpose Anti-Spatter

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

Features

- › Corrosion resistant
- › Allows for immediate painting
- › VOC-free, solvent-free and silicone-free, biodegradable, non-flammable
- › Formulation based on natural plant extracts
- › Odorless
- › Effective welding amperage range: 100-225A



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	5 L	1.3 gal	53-F 206	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

E-WELD 3™



High Energy Anti-Spatter

E-WELD 3 is a high performance anti-spatter solution that both cleans the work piece and protects it from high energy spatter, eliminating an extra step in the welding process while avoiding costly rework.

Benefits

- › Cleans and degreases weld area
- › Allows multi pass welding
- › Allows immediate painting

Features

- › VOC-free, solvent-free and silicone-free, 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	5 L	1.3 gal	55-F 256	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



Tech tip!

Economical! Only requires a thin protective film to prevent spatter adhesion

E-WELD 4™



Guaranteed Porosity-Free Welds

In addition to protecting the work piece from the adherence of spatter, E-WELD 4 is guaranteed to ensure “clean” welds and eliminate the need for time-consuming, costly rework by preventing weld porosity and weld cracks from forming. This is the ultimate anti-spatter for saving time and improving the quality of your work!

Benefits

- › Prevents weld porosity
- › No weld cracking
- › Corrosion resistant
- › Allows for immediate painting

Features

- › VOC-free, solvent-free and silicone-free, 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	5 L	1.3 gal.	53-F 406	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: Light green



E-WELD GEL™

Premium Anti-Spatter Gel

Superior anti-spatter gel for protecting welding gun nozzles and contact tips.

Benefits

- › Extends welding torch life
- › Fast, easier cleaning of nozzles and contact tips
- › Free of chlorinated compounds and silicone

Features

- › Protection of the inside and outside of welding nozzles and contact tips
- › Odorless
- › Packaging height is designed to prevent clogging of gas diffusers in welding nozzle

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

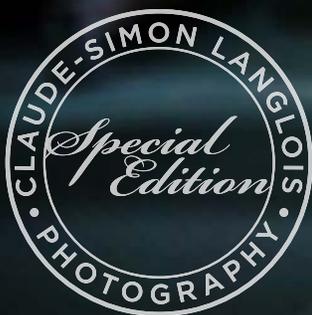
Color: Translucent



Magnetic tin “sticks” to steel work tables and vertical surfaces

Our sanding and coated abrasive products are engineered to the highest standards to provide effective solutions for modern industry. Technology is changing rapidly, and our product engineers are continually innovating to provide you with the most efficient and technologically advanced products available.

We proudly stand behind the quality of our coated abrasive and sanding products, and once you try them, we think you will too.

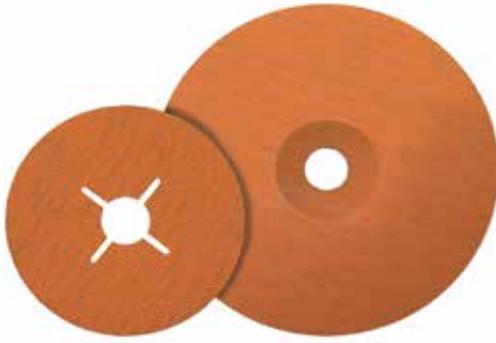


C. Langlois

Sanding



COOLCUT XX | X-TRACUT | TOPCUT | COOLCUT | TWO-IN-ONE | BLENDEX | FX | ACCESSORIES



- > Remove more material in less time even when compared to some grinding wheels
- > Provide a consistent surface finish, disc after disc
- > Cooling agents ensure cool cutting to prevent burning and distortion
- > All 7" sanding discs are preformed to fit precisely on backing pads* without warping, allowing maximum contact with the workpiece

* Use Turbo backing pads for best results



COOLCUT XX™



The Longest Lasting, Most Aggressive Sanding Discs

The new and improved COOLCUT XX sanding discs use our exclusive Cyclone™ Technology to aggressively remove material long after most other sanding discs are spent. Speed up production while using fewer abrasives with Coolcut XX.

- ✓ **IMPROVED! 90% more stock removal**
- ✓ **6 times more stock removal than regular sanding discs**
- ✓ **2 times faster cutting than regular sanding discs**



Dia.	Arbor	Grit	Order No.	Min. Pkg.	Std. Ctn.
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"	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
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

X-TRACUT™

Non-woven sanding discs

These revolutionary sanding discs are guaranteed to cut cooler, faster and last much longer than conventional sanding discs.



Dia.	Arbor	Order No.	Min. Pkg.	Std. Ctn.
4 1/2"	7/8"	15-A 453	10	100
5"	7/8"	15-A 503	10	100
7"	7/8"	15-A 703	10	100

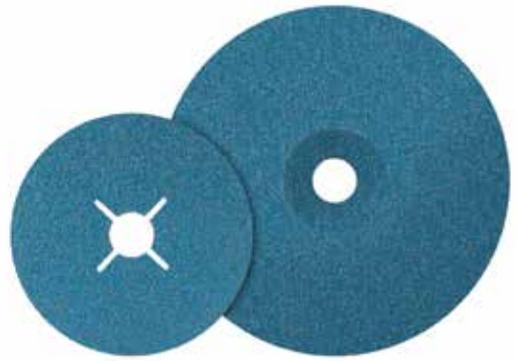
TOPCUT™

Tough Sanding Applications

Topcut is the perfect choice for your tough weld removal, grinding or blending applications. It also runs cool, making it the ideal choice when working with stainless steel.



Dia.	Arbor	Grit	Order No.	Min. 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



- For the toughest weld removal, grinding and blending applications
- "Blue" zirconium abrasive grains remove more material faster
- High strength heat resistant bond for longest disc life



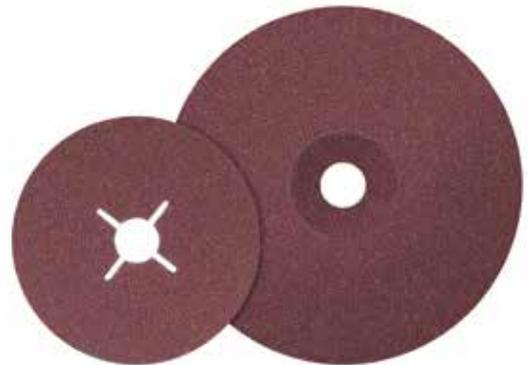
COOLCUT™

General Purpose Sanding

Coolcut offers superior sanding, light weld removal, surface cleaning and finishing on steel.



Dia.	Arbor	Grit	Order No.	Min. 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



- For general purpose sanding, light weld removal, surface cleaning and finishing
- Premium blend of aluminum oxide grain
- High removal rate, cool cutting



- > High quality impact resistant plastic with excellent heat dissipation to extend the life of your sanding discs



- > Standard pad, black, medium flexibility for light weld removal and blending



- > Soft pad, white, extra flexible for surface finishing where a wider contact area is required



Backing pad assemblies



Dia.	Thread	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4"	M10 × 1.25	15-D 030	15,000	1	10
4"	3/8"-24	15-D 035	15,000	1	10
4 1/2"	M14 × 2.0	15-D 042	13,300	1	10
4 1/2"	5/8"-11	15-D 044	13,300	1	10
5"	M14 × 2.0	15-D 052	12,200	1	10
5"	5/8"-11	15-D 054	12,200	1	10
6"	M14 × 2.0	15-D 062	10,200	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 pads

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.



Dia.	Thread	Color	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"-11	Black	15-M 044	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
7"	5/8"-11	Black	15-M 007	8,600	1	10
7"	5/8"-11	White	15-M 008	8,600	1	10

Clamping nuts *(supplied separately)*

	Order No.		Order No.
For 4" backing pads			
M10 × 1.25	15-D 016	3/8"-24	15-D 015
For 4 1/2" and 5" backing pads			
M10 × 1.25	15-D 010	1/2"-13	15-D 013
M10 × 1.5	15-D 011	5/8"-11	15-D 014
M14 × 2.0	15-D 012		
For 6" and 7" backing pads		5/8"-11	15-H 014
For 7" Turbo Action backing pad		5/8"-11	15-M 014
Spacer washers (supplied separately)			
			Order No.
For grinders with:		5/8"-11 spindle	07-Q 001
		M14 × 2.0 spindle	07-Z 005

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 abrasives 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	1	10
1"	3/8"	60	15-F 056	30,000	27,500	1	10
1"	3/8"	80	15-F 058	30,000	27,500	1	10
1"	3/8"	120	15-F 062	30,000	27,500	1	10
1"	1"	40	15-F 154	30,000	27,500	1	10
1"	1"	60	15-F 156	30,000	27,500	1	10
1"	1"	80	15-F 158	30,000	27,500	1	10
1"	1"	120	15-F 162	30,000	27,500	1	10
1 1/2"	3/8"	40	15-F 004	25,000	19,100	1	10
1 1/2"	3/8"	60	15-F 006	25,000	19,100	1	10
1 1/2"	3/8"	80	15-F 008	25,000	19,100	1	10
1 1/2"	3/8"	120	15-F 012	25,000	19,100	1	10
1 1/2"	1"	40	15-F 104	25,000	19,100	1	10
1 1/2"	1"	60	15-F 106	25,000	19,100	1	10
1 1/2"	1"	80	15-F 108	25,000	19,100	1	10
1 1/2"	1"	120	15-F 112	25,000	19,100	1	10
1 1/2"	1"	240	15-F 124	25,000	19,100	1	10
2"	3/8"	40	15-F 204	25,000	15,200	1	10
2"	3/8"	60	15-F 206	25,000	15,200	1	10
2"	3/8"	80	15-F 208	25,000	15,200	1	10
2"	3/8"	120	15-F 212	25,000	15,200	1	10
2"	1"	40	15-F 304	25,000	15,200	1	10
2"	1"	60	15-F 306	25,000	15,200	1	10
2"	1"	80	15-F 308	25,000	15,200	1	10
2"	1"	120	15-F 312	25,000	15,200	1	10
2"	1"	240	15-F 324	25,000	15,200	1	10
2 1/2"	1 1/2"	40	15-F 504	20,000	12,700	1	10
2 1/2"	1 1/2"	60	15-F 506	20,000	12,700	1	10
2 1/2"	1 1/2"	80	15-F 508	20,000	12,700	1	10
2 1/2"	1 1/2"	120	15-F 512	20,000	12,700	1	10
2 1/2"	1 1/2"	240	15-F 524	20,000	12,700	1	10
3"	1"	40	15-F 704	15,000	8,900	1	10
3"	1"	60	15-F 706	15,000	8,900	1	10
3"	1"	80	15-F 708	15,000	8,900	1	10
3"	1"	120	15-F 712	15,000	8,900	1	10
3"	1 1/2"	40	15-F 804	15,000	8,900	1	10
3"	1 1/2"	80	15-F 808	15,000	8,900	1	10
3"	1 1/2"	120	15-F 812	15,000	8,900	1	10
3"	1 1/2"	240	15-F 824	15,000	8,900	1	10
3"	2"	40	15-F 904	11,000	8,900	1	10
3"	2"	60	15-F 906	11,000	8,900	1	10
3"	2"	80	15-F 908	11,000	8,900	1	10
3"	2"	120	15-F 912	11,000	8,900	1	10





TWO-IN-ONE™ flap wheels

Two-In-One flap wheels remove material nearly as fast as regular flap wheels while leaving a finer finish thanks to the non-woven material between each sanding flap. Save time and eliminate a step in your finishing process with the Two-In-One flap wheel!



Copper
Brass



Finishing guide - TWO-IN-ONE

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



Dia.	Width	Shaft	Grit	Order No.	Max. RPM	Opt. 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

Dia.	Width	Thread	Grit	Order No.	Max. RPM	Opt. RPM	Std. Pkg.	Std. Ctn.
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

Dia.	Width	Arbor	Grit	Order No.	Max. RPM	Opt. RPM	Std. Pkg.	Std. Ctn.
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.



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



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

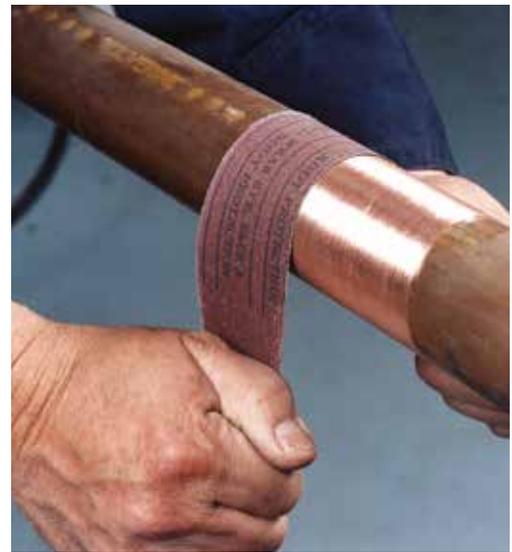
COOLCUT™ shop rolls

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 work piece cool, minimizing wear and extending the life of the shop roll while making it safe to use on all metals.

Shop rolls

All metals

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 1/2"	50 yards	60	14-C 206	1	10
1 1/2"	50 yards	80	14-C 208	1	10
1 1/2"	50 yards	100	14-C 210	1	10
1 1/2"	50 yards	120	14-C 212	1	10
1 1/2"	50 yards	180	14-C 218	1	10
1 1/2"	50 yards	240	14-C 224	1	10
1 1/2"	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
- > Perfect for making strip belts for use with the Line-Mate system belt drive roller
- > Ideal for use in maintenance shops, machine shops, manufacturing plants and more

BLENDIX™ hand finishing abrasives

These flexible non-woven sheets come in a variety of grits and are ideal for general purpose sanding, deburring, surface cleaning and finishing. They easily adapt to irregular surfaces, making them indispensable in repair and maintenance applications.

Hand pads

Copper
Brass

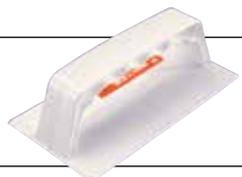


Size	Order No.	Color	Type	Std. Pkg.
6" x 9"	07-A 100	Maroon	Blending	60
6" x 9"	07-A 200	Grey	Finishing/Polishing	60
6" x 9"	07-A 300	Tan	Heavy-duty	60
6" x 9"	07-A 400	Green	General purpose	60
6" x 9"	07-A 500	White	Cleaning	60

Accessory

Hand pad holder Order No. 07-A 001

With molded hook pattern for positive pad holding and easy grip handle 3" x 6"



- > Pads are washable and can be reused
- > Unlike steel wool, will not rust, splinter or contaminate the workpiece



A craftsman wearing safety glasses and a dark jacket is focused on sanding a wooden piece with a power sander. The workshop background is blurred, showing various tools and equipment. The lighting is warm, highlighting the texture of the wood and the craftsman's concentration.

Bringing a work piece to the final finish is often one of the most time-consuming and difficult applications in fabrication. Meeting a customer's specific requirements can present unique challenges that push you and your tools to the limit.

However, this is where WALTER truly shines. We are dedicated to "contributing to our customers' success by helping them work better." What this means is bringing our extensive knowledge of finishing to your operation, guiding you to the most efficient and cost effective solution and eliminating all your finishing-related headaches.

Our finishing tools and abrasives are designed to the highest standards to ensure you will have a consistent, uniform finish each time. Best of all, we have a variety of solutions that reduce the number of steps in your process, saving you considerable time and money spent on unnecessary tools and labor. Call us today for a free on-site consultation where we will take a look at your current process and provide practical recommendations. It's the least we can do to make your life a little bit easier.



A handwritten signature in cursive script, reading "Claude-Simon Langlois".

Finishing



FINISHING KITS | BLENDX | QUICK-STEP | TWIST | ACCESSORIES

Check out The Walter Network for tips and shortcuts to achieving some of the most common industrial finishes with the use of WALTER products.



To get to TWN, visit www.walter.com/videos
Click on **Mechanical**, then **Finishing!**



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

STEP 1



07-Q 504

STEP 2



07-R 453

STEP 3



07-K 422

Check out what TWN has to offer to make your finishing process quick and easy!!

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



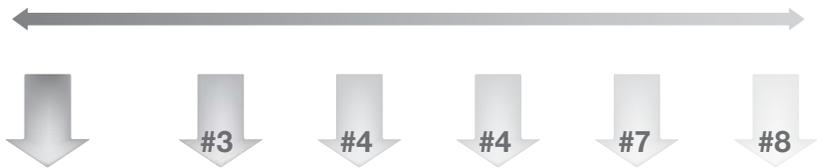
Follow us on:



Linear finishing



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



DRUMS

Product	Application	Product category	Grit size	Pre-finishing (>60 µin)	Coarse finish (60-50 µin)	Sanitary (40-25 µin)	Pharmaceutical (16-12 µin)	Light polish (8-4 µin)	Mirror finish (4-1 µin)
FX Drums @ 2000 RPM	Cleaning	07-L	Coarse						
Coolcut Flap Drums @ 2000 RPM	Graining	07-J	40						
			60						
			80						
			120						
Blendex Drums @ 2000 RPM	Linear finishing	07-M	Coarse						
			Medium						
			Fine						
			Super fine						
			Ultra fine						
2-in-1 Drums @ 2000 RPM	Linear finishing	07-K	80 + medium						
Buffing Drums and polishing pastes @ 2000 RPM	Mirror finishing	07-T + paste	White 1200-1500						
		07-T + paste	Blue 2000						

BELTS

Cloth Drum Belts @ 2000 RPM	Removing deep scratches (Stock removal)	07-F	40						
			60						
			80						
			120						
Blendex Drum Belts @ 2000 RPM	Graining and mirror finishing	07-H	Coarse						
			Medium						
			Fine						
			Super Fine						
Felt Drum Belts and polishing pastes	Mirror finishing	07-T + paste	White 1200-1500						
		07-T + paste	Blue 2000						

See how to achieve these perfect finishes in our online videos at walter.com

Circular finishing



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

Product	Application	Product category	Grit size	Finish progression					
				Pre-finishing (>60 µin)	Coarse Finish (60-50 µin)	Sanitary (40-25 µin)	Pharmaceutical (20-12 µin)	Light polish (8-4 µin)	Mirror finish (4-1 µin)
Quick-Step FX @ 5000 RPM	Cleaning	07-X	Coarse						
Quick-Step Flex @ 7000 RPM	Blending	07-Q	40						
			60						
			80						
			120						
Quick-Step Blendex @ 5 000 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	White 1200-1500						
			Blue 1200-1500						

Visit The Walter Network at www.walter.com/videos for step-by-step video instruction on how to achieve some of these common industrial finishes.



QUICK-STEP™ Finisher (Sander / Polisher)

The most versatile tool for surface finishing and polishing

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 smartest tool out there!



Variable speed control

Electronic speed control at the back of the tool for adjusting the speed to achieve the perfect finish every time. DYNAMAX™ electronics regulate the power supply to the motor to ensure constant speed under full load for consistent and uniform surface finishing.

Electronic Safety Features

This tool is equipped with Soft Start, which ensures a progressive increase of RPM for safer use. Following a power interruption, such as a power failure, the Quick-Step Finisher will not restart on its own to protect the operator. 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.

Extra large gear

High tech motor design with plenty of torque even at lower speeds to help you complete even the toughest jobs with ease.

Powerguard™

A temperature sensor is built into the electric motor to protect the tool from burn-out.

Anti-vibration side handle

High-tech, vibration absorbing side handle offers safer and more comfortable operation while reducing operator fatigue.

Compact and light design

Compact and extra light weight design makes this sander/polisher easy to fit in hard-to-reach and intricate areas.

Maximum cooling

14 side air vents ensure motor stays cool even under the harshest conditions to prolong the life of the tool.



Safety clutch

Model	Order No.	Disc dia.	RPM	Spindle thread	Motor	Amps	Weight
6275	30-A 275	4 1/2" to 6"	2,000-7,000	5/8"-11	120V A.C. only	12.2	5.3 lbs
6275 KIT	30-A 277	4 1/2"	2,000- 7,000	5/8"-11	120V A.C. only	12.2	10.2 lbs

Quick-Step Finisher kit – 4 1/2"

Includes: 1 QUICK-STEP finisher with standard equipment plus carrying case, 1 QUICK-STEP Backing Pads (07-Q 049), 1 QUICK-STEP FX Disc (07-X 845), 1 QUICK-STEP Flex 40 Grit Flap Disc (07-Q 504), 1 QUICK-STEP Flex 120 Grit Flap Disc (07-Q 512), 2 Blendex Discs (coarse, 07-R 452), 2 Blendex Discs (medium, 07-R 453), 1 Blendex Disc (fine, 07-R 454).



QUICK-STEP Big-Buff III™ (Sander / Polisher)

The perfect tool for metal polishing

Specifically designed to get the most out of the QUICK-STEP surface finishing system. Whether you sand, buff or polish, the Quick-Step Big-Buff III will provide you with a uniform, top quality finish and reduced finishing times.



Variable speed control

Electronic speed control conveniently located on the top of the handle makes it easy to select the appropriate speed to achieve the desired finish. DYNAMAX™ electronics regulate the power supply to the motor to ensure constant speed under full load for consistent and uniform surface finishing.

Powerguard™

A temperature sensor is built into the electric motor to protect the tool from burn-out.

Extra large gear

High tech motor design with plenty of torque even at lower speeds to help you complete even the toughest jobs with ease.

Ergonomic design

Sleek, slim line design and extra light weight make this sander/polisher easy to control, allowing the operator work continuously without fatigue.

Brush service door

Both carbon brushes can be accessed quickly for easy maintenance.

Maximum cooling

14 side air vents ensure motor stays cool even under the harshest conditions to prolong the life of the tool.



Model	Order No.	Disc dia.	RPM	Spindle thread	Motor	Amps	Weight
6265	30-A 265	4 1/2" to 6"	2,000–7,300	5/8"–11	120V A.C. only	12.4	6 lbs
6265 KIT	30-A 267	4 1/2"	2,000–7,300	5/8"–11	120V A.C. only	12.4	16 lbs

Quick-Step Big-Buff III kit – 4 1/2"

Includes: 1 BIG-BUFF III with standard equipment plus 1 carrying case, 1 2-in-1 disc 4 1/2" [15-I 453], 1 BLENDEUX U Cup disc 4 1/2" [07-U 451], 1 Quick-Step backing pad 4 1/2" [07-Q 049], 2 QUICK-STEP flap discs (grit 40 [07-Q 454] and 120 [07-Q 462]), 3 BLENDEX discs (medium [07-R 453]), 1 FX disc [07-X 845], 2 felt discs (1 regular [07-T 450] and 1 high polish [07-T 454]), 1 white [07-T 901] and 1 blue polishing paste [07-T 905].



Line-Mate III™ (Drum sander)

The professional choice for linear finishing

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 any metal surface, this system offers the most complete range of products (pages 78–81) to match the linear finish required for your applications.

Ergonomic design

Sleek, slim line design and extra light weight make this drum sander easy to control, allowing the operator to work continuously without fatigue.

Brush service door

Both carbon brushes are quickly accessible for easy maintenance.

Powerguard™

A temperature sensor is built into the electric motor to protect the tool from burn-out.

Speed control on top of tool

Fully integrated DIALSPEED™ control with DYNAMAX™ electronics ensure that spindle speeds are fully adjustable and remain constant even under load for a consistent and uniform finish.

Maximum cooling

Optimized air vents assure motor stays cool even under the harshest conditions to extend the tool's life.

Extra large gear

Powerful, high efficiency motor with precision helical bevelled gears will help you complete even the toughest jobs with ease.



Model	Order No.	RPM	Spindle thread	Motor	Amps	Weight
6268	30-A 268	1,000–3,800	5/8"–11	120V A.C. only	12.4	6.5 lbs
6268 KIT	30-A 269	1,000–3,800	5/8"–11	120V A.C. only	12.4	16 lbs

Line-Mate III™ Kit

Includes 1 LINE-MATE III with standard equipment plus 1 carrying case, 1 pneumatic drum [07-F 051], 6 cloth drum belts (2 of 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 1/2" x 4" [07-K 442]) and 1 BLENDEX drum (4 1/2" x 4" medium [07-M 443]).





- > Open web-like construction ensures cool operation that resists loading
- > Removes rust, paint and scale with ease
- > Firm, coarse non-woven flaps for tough cleaning applications



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



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

Improved Performance



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

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

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 1/2"	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

BLENDEX™ drums



Dia.	Width	Arbor	Grit	Order No.	Max. RPM	Std. Pkg.	Std. Ctn.
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

** 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.

07-M 442 and 07-M 443: Now with "Perfect Brush Finish" technology. Exclusive to Walter, this technology enhances the finish by providing a shadow-free finish right from the start.

BLENDEX HD™ drums



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



- > For demanding applications like deburring, working on outside corners or finishing square tubing
- > Denser construction for longer life and better performance

Buffing drums



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

Use with polishing paste.



- > Ideal for enhancing and brightening existing finishes, taking out stains in metals and bringing out a new luster in work surfaces
- > Use with our polishing pastes to produce 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 be used with extension 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
Valve core for both drums	07-F 013



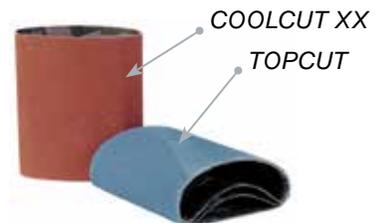
Put a cushion of air between your abrasives to:

- > Eliminate edge cutting and swirl marks
- > Increase sandpaper life by reducing heat build-up
- > Increases flexibility – conforms to concave and convex surfaces

TOPCUT™ and COOLCUT XX™ Cloth drum belts



Width	Length	Diameter	Grit	Order No.	Min. Pkg.	Std. Ctn.
3 1/2"	15 1/2"	5"	40 TOPCUT	07-F 364	5	100
3 1/2"	15 1/2"	5"	60 COOLCUT XX	07-F 366	5	100
3 1/2"	15 1/2"	5"	80 COOLCUT XX	07-F 368	5	100
3 1/2"	15 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



- > Will 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 rate



- > Ideal for cleaning or finishing pipes, tubing and railings
- > Will produce a new sheen on tarnished pipes
- > Special T-Lock allows quick and easy access when finishing closed loop workpieces
- > Can be used with the Line-Mate III tool with the addition of a belt drive roller (07-F 002)



BLENDEX™ T-Lock belts



Width	Length	Grit	Color	Order No.	Min. Pkg.	Std. Ctn.
1 3/16"	25"	Coarse	Tan	07-H 242	3	48
1 3/16"	25"	Medium	Maroon	07-H 243	3	48
1 3/16"	25"	Fine	Blue	07-H 244	3	48
1 3/16"	25"	Super fine	Grey	07-H 245	3	48

T-Lock polishing felt belt



Width	Length	Color	Order No.	Min. Pkg.	Std. Ctn.
1 3/16"	25"	White	07-T 225	3	48

Use with polishing paste.

Accessory

Belt drive roller

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

Order No. 07-F 002



Inox tape

Thin stainless steel tape with adhesive strip. Use in conjunction with our Line-Mate III tool for best results.

Length	Width	Thickness	Order No.	Std. Pkg.
16'	1 5/8"	.005"	07-T 100	1
30'	3/4"	.01"	07-T 105	1

- > Create perfectly mitered corner finishes
- > Use only on cool surfaces



BLENDEX™ drum belts



Width	Length	Dia.	Grit	Order No.	Min. 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



- > **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 as a last step before mirror finishing or to produce decorative finishes

Felt drum belt



Width	Length	Dia.	Color	Order No.	Min. Pkg.	Std. Ctn.
5 3/8"	11 5/8"	3 1/2"	White	07-T 530	1	10



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

Accessories

White polishing paste

Approx. 600 g Grit 1200-1500

Order No. 07-T 901

Blue mirror finishing paste*

Approx. 650 g Grit 2000

Order No. 07-T 905

* Does not contain animal fat and is suitable for use by food processing industries.



- > Re-sealable polishing paste tube with convenient push-through system to protect paste from contaminants

Hand rail finishing kit

Order No. 07-H 992

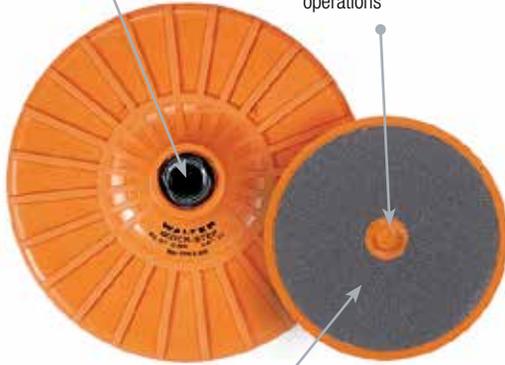
Includes: 1 belt drive roller, 4 BLENDEX strip belts (1 coarse, 1 medium, 1 fine, 1 super fine). To be used with Line-Mate III drum sander.



Improved Performance

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

Exclusive centering pin guarantees vibration-free operations



Torque resistant mushroom hooks hold discs securely in place

Improved Performance



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

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.

Accessories

QUICK-STEP backing pads

Description	Order No. M14 nut	Order No. 5/8"-11 nut
For 4 1/2" discs, 4" pad		07-Q 044*
For 4 1/2" discs, 4 1/2" pad	07-Q 047	07-Q 049
For 5" discs, 5" pad		07-Q 054
For 6" discs, 6" pad	07-Q 062	07-Q 064
For 7" discs, 7" pad		07-Q 074

* 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 MG backing pad

For maximum grip when working at high speeds, use this backing pad with the BLENDX surface conditioning discs.

Description 5/8"-11 nut	Order No.
For 4 1/2" discs, 4 1/2" pad	07-Q 149

QUICK-STEP™ metal surface finishing system

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, you can do it all with QUICK-STEP.

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	5	40
6"	07-X 860	6,000	3,000	5	40



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 bringing down and blending in light welds, 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



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		10	100
4 1/2"	COARSE, tan	07-R 452	11,000	4,000	10	100
4 1/2"	MEDIUM, maroon	07-R 453	11,000	to	10	100
4 1/2"	FINE, blue	07-R 454	11,000	6,500	10	100
4 1/2"	SUPER FINE, grey	07-R 455	11,000		10	100
5"	X-TRA COARSE, brown	07-R 500	11,000	3,000	10	100
5"	COARSE, tan	07-R 502	11,000	to	10	100
5"	MEDIUM, maroon	07-R 503	11,000	6,500	10	100
5"	FINE, blue	07-R 504	11,000		10	100
6"	X-TRA COARSE, brown	07-R 600	8,600	3,000	10	100
6"	COARSE, tan	07-R 602	8,600	to	10	100
6"	MEDIUM, maroon	07-R 603	8,600	6,500	10	100
6"	FINE, blue	07-R 604	8,600		10	100
7"	X-TRA COARSE, brown	07-R 700	6,800	2,500	10	100
7"	COARSE, tan	07-R 702	6,800	to	10	100
7"	MEDIUM, maroon	07-R 703	6,800	5,000	10	100
7"	FINE, blue	07-R 704	6,800		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

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



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



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

Tech tip!

Use a clean Quick-Step High Polish Disc as the final step (after working with the blue paste) to remove any excess paste and leave a bright mirror finish without using any cleaning agent.



- > To be used with polishing pastes
- > For use on angle grinders with a suitable speed range



- > The answer to all your finishing needs, from weld blending to a #8 mirror finish



QUICK-STEP felt discs



Dia.	Order No.	Recommended RPM	Std. Pkg.	Std. Ctn.
4 1/2"	07-T 450	2,500 to 3,500	5	40
6"	07-T 600	2,000 to 3,000	5	40
7"	07-T 700	1,500 to 2,500	5	40

QUICK-STEP high polish discs



Dia.	Order No.	Recommended RPM	Std. Pkg.	Std. Ctn.
4 1/2"	07-T 454	2,500 to 3,500	10	100
6"	07-T 604	2,000 to 3,000	10	100
7"	07-T 704	1,500 to 2,500	10	100

Accessories

White polishing paste

Approx. 600 g Grit 1200-1500

Order No. 07-T 901

Blue mirror finishing paste*

Approx. 650 g Grit 2000

Order No. 07-T 905

* Does not contain animal fat and is suitable for use by food processing industries.

QUICK-STEP interface pads

To be used with surface conditioning discs when working on curved surfaces or when greater flexibility is required. It has a soft foam cushion to increase flexibility and provide a better finish without gouging.

Dia.	Order No.	Std Pkg	Std Ctn
4 1/2"	07-Q 045	1	10
5"	07-Q 050	1	10
6"	07-Q 060	1	10
7"	07-Q 070	1	10

Spacer washers

For long 5/8"-11 spindles

Order No. 07-Q 001

For long M14x2.0 spindles

Order No. 07-Z 005

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

QUICK-STEP starter kits

Includes: 1 backing pad, 1 flap disc (grit 120), 9 BLENDEX discs (3 coarse, 3 medium, 2 fine and 1 super fine), 1 felt disc, 1 high polish disc, 1 mini white paste and 1 mini blue paste.

Dia.	Arbor	Order No.	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"-11	07-Q 953	1	5

BLENDEX U™

Superior Finishes in Less Time

BLENDEX U is made from a unitized material that is excellent for deburring, cleaning, blending and finishing on all kinds of metal...even plastic or fiberglass! Blendex U comes in different densities that can replace many traditional abrasives while offering several unique advantages.

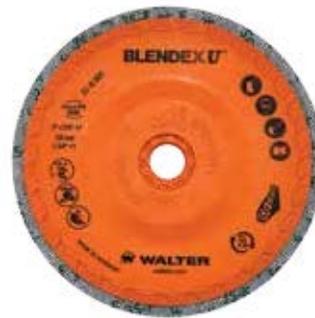
- **Long Lasting** Minimal heat buildup and resistance to sharp edges ensures a long lifespan
- **Non-Loading** Safe for use on sensitive metals such as stainless steel, titanium, aluminum and other alloys
- **Versatile** Different densities for different applications. All densities can be trimmed/shaped to fit your specific application
- **Provides a Superb Finish** As close as you can get to a mirror finish without the use of polishing paste



BLENDEX U cup discs



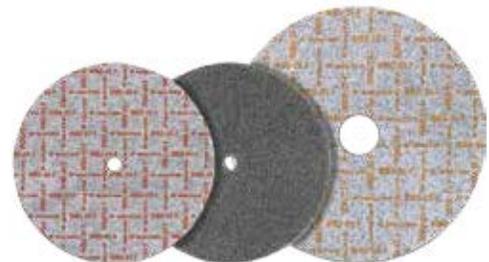
Dia.	Arbor	Grade	Order No.	Max RPM	Optimal RPM	Std. Pkg.	Std. Ctn.
4 1/2"	5/8"-11	3SF	07-U 451	10,500	6,000	5	20
5"	5/8"-11	3SF	07-U 501	10,500	6,000	5	20



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
			6SF	07-U 322	18,100	20	200
			6AM	07-U 323	18,100	20	200
6"	1/4"	1"	2SF	07-U 621	5,000	5	40
			6SF	07-U 622	7,500	5	40
			6AM	07-U 623	7,500	5	40
6"	1/2"	1"	2SF	07-U 651	5,000	4	36
			6SF	07-U 652	7,500	4	36
			6AM	07-U 653	7,500	4	36
6"	1"	1"	2SF	07-U 611	5,000	2	16
			6SF	07-U 612	7,500	2	16
			6AM	07-U 613	7,500	2	16



- For use on portable or stationary machines
- Can be used on edge or either side of the wheel

BLENDEX U mounted points

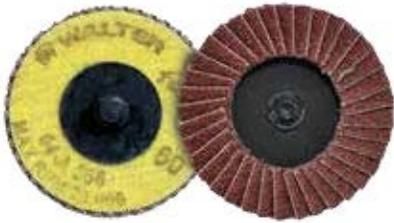


Dia.	Length	Grade	Color	Order No.	Max RPM	Std. Pkg.
3/8"	1 1/4"	2SF	Orange	07-U 101	37,210	5
3/8"	1 1/4"	6SF	Red	07-U 102	37,210	5
3/8"	1 1/4"	6AM	Black	07-U 103	37,210	5



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

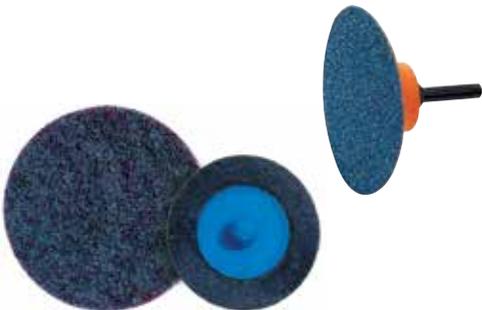
Also see BLNDEX U™ Twist discs.



- > Long lasting with a consistent finish throughout the life of the disc
- > Very high removal rate
- > One-step grinding and finishing



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



- > High metal removal rate
- > Long life due to special formulation
- > Unique construction for optimal heat dissipation and resistance to wear

TWIST™ Quick-change metal surface finishing system

This system makes finishing quick and easy. Each disc can be mounted or removed from the backing pad with a quick turn, reducing downtime and allowing you to go from grinding and blending to applying the final finish in just minutes. Save time and improve the quality of your work!

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

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 TOPCUT sanding discs



Dia.	Grit	Colour	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

COLOR CODED FOR EASY IDENTIFICATION

Grit 36 Grit 50 Grit 60 Grit 80 Grit 100 Grit 120



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

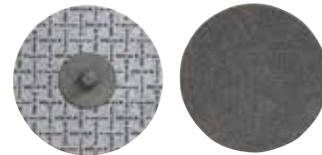


- COARSE:** For most heavy-duty applications
- MEDIUM:** For cleaning and removing surface imperfections
- FINE:** For producing a fine scratch pattern
- SUPER FINE:** Use as a last step before mirror finishing or to produce decorative finishes

TWIST BLENDEX 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



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

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

Use with polishing pastes.

- › Designed for final cosmetic finishing
- › 100% pure premium wool product



Accessories

TWIST backing pads

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

Color code: Medium = orange
Hard = black



- › Molded polyurethane construction
- › Removable mandrel
- › Surface design ensures uniform disc support

TWIST starter kits

2" assortment: Consists of 1 medium backing pad, 2 flap discs (1 ea. grits 40 and 80), 15 TOPCUT discs (3 ea. grits 36, 50, 60, 80 and 120), 12 BLENDEX discs (3 ea. coarse, medium, fine and super fine) and 1 FX disc.
Order No. 04-Z 992

3" assortment: Consists of 1 medium backing pad, 10 TOPCUT discs (2 each, grits 36, 50, 60, 80 and 120), 4 BLENDEX discs (1 each, coarse, medium, fine and super fine) and 1 FX disc.
Order No. 04-Z 993





Power brushes have long been used for edge and surface conditioning on a wide variety of materials. Unlike other abrasives that remove base material along with surface contaminants, power brushes work on the metal surface without altering the base material.

Thousands of wire tips brush and clean the metal to achieve the desired surface, ready for re-work, repair or maintenance. To withstand that kind of abuse, every Walter Surface Technologies power brush is made of only the finest industrial grade materials. Each of our brushes have been designed and assembled using the latest manufacturing technology and have met the strictest quality control standards in order to provide our customers with premium brushes that make employees more productive while ensuring maximum safety.



A handwritten signature in cursive script that reads "Claude-Simon Langlois".

Brushing

A photograph of a male worker in a blue uniform and cap, wearing safety glasses and gloves, using a wire brush on a metal part. The background shows industrial machinery, including a large vertical pipe and various tools.

WIRE CUP BRUSHES | SAUCER-CUP BRUSHES | WIRE WHEEL BRUSHES | MOUNTED WIRE BRUSHES | ACCESSORIES



High performance power brushes

Perfect Balance

Every knot is perfectly balanced through accurate wire count and 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.

- > Choice of threads for direct mounting on all angle grinders available on the market today
- > Product and safety information are clearly and permanently embossed on each brush
- > Brushes are color coded for easy identification
 - Orange brushes = steel
 - Blue brushes = stainless steel, aluminum



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

Walter presents the newest member of our line of high quality cup brushes with the double-row knot-twisted power brush. These brushes cover more area (1"), allowing you to clean and prepare the work surface quicker and more easily. The removable ring keeps the wires firmly in place and significantly increases their life.

Double-row knot-twisted cup brush with ring



Dia.	Arbor	Order No.	Wire	Thick.	Max RPM	Std. Pkg.	Std. Ctn.
5"	5/8"-11	13-G 574	.035"	1"	8,600	1	10

Double-row knot-twisted cup brush with ring



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



Wire cup brushes

High Performance Cleaning of Large Surface Areas

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.

Color coded hubs for easy identification

Hub color Wire type

Orange Made with premium carbon steel wire that is oil hardened and tempered for longest life and maximum brushing action.

Blue Made with stainless steel #304 wire to help prevent contamination and surface rusting of brushed stainless steel parts. Also may be used on aluminum and other non-ferrous metals.

Crimped



Dia.	Arbor	Order No.	Wire	Max RPM	Std. Pkg.	Std. Ctn.
3"	M10 × 1.25	13-D 300	.0118"	12,000	1	10
3"	M14 × 2.0	13-D 302	.0118"	12,000	1	10
3"	5/8"-11	13-D 304	.0118"	12,000	1	10
5"	5/8"-11	13-E 504	.020"	8,600	1	10

Crimped



3"	M14 × 2.0	13-D 312	.0118"	12,000	1	10
3"	5/8"-11	13-D 314	.0118"	12,000	1	10
5"	5/8"-11	13-E 514	.020"	8,600	1	10

Knot-twisted



Dia.	Arbor	Order No.	Wire	Max RPM	Std. Pkg.	Std. Ctn.
3"	M10 × 1.25	13-F 300	.015"	12,000	1	10
3"	M10 × 1.5	13-F 301	.015"	12,000	1	10
3"	M14 × 2.0	13-F 302	.015"	12,000	1	10
3"	1/2"-13	13-F 303	.015"	12,000	1	10
3"	5/8"-11	13-F 304	.015"	12,000	1	10
3"	5/8"-11	13-F 354	.020"	12,000	1	10

Knot-twisted



3"	M10 × 1.25	13-F 310	.015"	12,000	1	10
3"	M14 × 2.0	13-F 312	.015"	12,000	1	10
3"	5/8"-11	13-F 314	.015"	12,000	1	10

Knot-twisted with ring



Dia.	Arbor	Order No.	Wire	Thick.	Max RPM	Std. Pkg.	Std. Ctn.
3"	M14 × 2.0	13-G 302	.020"	1/2"	12,000	1	10
3"	1/2"-13	13-G 303	.020"	1/2"	12,000	1	10
3"	5/8"-11	13-G 304	.020"	1/2"	12,000	1	10
4"	5/8"-11	13-G 404	.020"	1/2"	8,600	1	10
5"	5/8"-11	13-G 504	.020"	1/2"	8,600	1	10
5"	5/8"-11	13-G 554	.035"	1/2"	8,600	1	10
6"	5/8"-11	13-G 604	.020"	1/2"	6,800	1	10

Knot-twisted with ring



3"	M14 × 2.0	13-G 312	.020"	1/2"	12,000	1	10
3"	5/8"-11	13-G 314	.020"	1/2"	12,000	1	10
5"	5/8"-11	13-G 514	.020"	1/2"	8,600	1	10



➤ Excellent for light surface cleaning, rust and paint removal, etc.

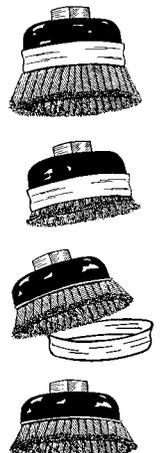


➤ Knot-twisted for heavy-duty brushing such as deburring, weld edge cleaning, removal of scale, spatter, heavy rust and corrosion, etc.



➤ Knot-twisted 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



- › For surface cleaning such as removing paint, rust and corrosion
- › Tightly knotted for maximum impact and long brush life

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. They are also tightly knotted to remove surface imperfections quickly and ensure a long, productive lifespan.



Crimped



Dia.	Arbor	Order No.	Wire	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



NEW

Knot-twisted



Dia.	Arbor	Order No.	Wire	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



NEW

Knot-twisted



Dia.	Arbor	Order No.	Wire	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 97 for special threaded adaptors.

Choose the right wire brush for your application

POWER TOOL USED	TYPE OF BRUSH	BRUSH DIA.	ANGLE GRINDER RATED AS	WIRE CONSTRUCTION	APPLICATION	METAL
 Flat brushing	Cup Brushes	3"	4", 4 1/2", 5", 6" 7", 9" 7", 9" 9"	Crimped	For surface cleaning and fine finishing on large surfaces.	
		4" 5" 6"		Knotted	For heavy-duty cleaning and brushing such as deburring, weld edge cleaning, etc.	
 Angle brushing	Saucer-Cup Brushes	4" 5" 6" 7"	4", 4 1/2", 5" 5", 6" 7", 9"	Knotted	For weld cleaning, weld spatter removal and deburring in hard to reach places such as inside corners, edges and contours.	
 Vertical brushing	Wire Wheel Brushes	4" 4 1/2" 5" 6", 6 7/8"	4", 4 1/2", 5" 4 1/2", 5" 5", 6" 7", 9"	Stringer	For cleaning pipe welds between passes, brushing in narrow grooves, etc.	
		Knotted		For surface cleaning after welding, to remove scale, spatter, rust and corrosion.		
 Vertical brushing	Mounted Brushes	3/4" to 3"	All die grinders with suitable speed range	Crimped	For general surface cleaning, rust, scale and paint removal.	
				Knotted	For heavy-duty applications such as deburring, removing heavy rust, etc.	
 Vertical brushing	Brushes for Bench/Pedestal Grinders	4" to 10"	All suitable bench and pedestal grinders	Crimped	For light deburring and similar cleaning jobs, to remove paint, rust, etc.	

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 user safety. Quicker surface cleaning and safer operation make our wire wheel brushes the preferred choice for professionals throughout North America.



Stringer bead



Dia.	Width	Arbor	Order No.	Wire	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



Dia.	Width	Arbor	Order No.	Wire	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



- Stringer bead brushes are extra narrow to clean pipe welds between passes, to brush in narrow grooves, etc.

Knot-twisted



Dia.	Width	Arbor	Order No.	Wire	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



Dia.	Width	Arbor	Order No.	Wire	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



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



- › Crimped wire has optimal density for the most effective brushing action
- › For general purpose surface cleaning and deburring applications

Wire wheel brushes

General Surface Cleaning & Deburring on Bench & Pedestal Grinders

Whether you are deburring, cleaning welds or removing paint, scale or rust, our wire wheel brushes for bench and pedestal grinders are designed to run smoothly and last longer than the competition. Get the most out of your tool with WALTER wire wheel brushes.

Crimped



Dia.	Width	Arbor	Order No.	Tool steel wire	Max RPM	Std. Pkg.	Std. Ctn.
4"	3/4"	1/2"	13-B 040	.0118"	6,000	1	10
6"	3/4"	1 1/4"*	13-B 065	.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
7"	3/4"	1 1/4" *	13-B 075	.0118"	6,000	1	10
7"	7/8"	1 1/4" *	13-B 070	.0118"	6,000	1	10
8"	3/4"	1 1/4" *	13-B 085	.0118"	4,500	1	10
8"	1"	1 1/4" *	13-B 080	.0118"	4,500	1	10
10"	1"	1 1/4" *	13-B 100	.0118"	3,600	1	10

Crimped



Dia.	Width	Arbor	Order No.	Stainless steel wire	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".



Knot-twisted



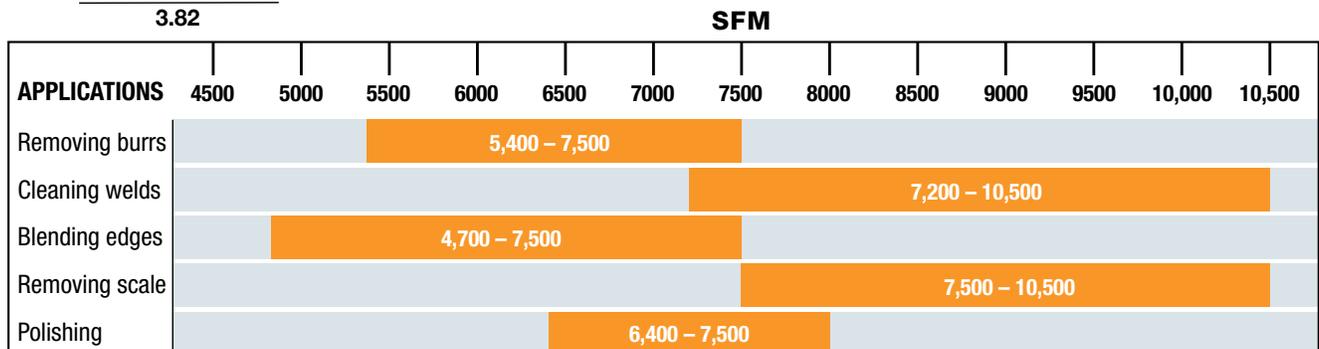
Dia.	Width	Arbor	Order No.	Tool steel wire	Max RPM	Std. Pkg.	Std. Ctn.
6"	5/8"	1 1/4" **	13-B 260	.0118"	9,000	1	10
8"	5/8"	1 1/4" **	13-B 280	.0118"	8,500	1	10

** These brushes come with 1/2" reducer bushings.

Choose the right speed for your application

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

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



Mounted wire brushes

For Precision Cleaning & Deburring on Die Grinders

Our mounted wire brushes come in a variety of sizes and configurations to fit numerous industrial applications.

Crimped



Type	Dia.	Width	Order No.	Tool steel wire	Max RPM	Std. Pkg.	Std. Ctn.
A	1/2"		13-C 003	.010"	25,000	1	10
A	1/2"		13-C 005	.020"	25,000	1	10
A	3/4"		13-C 008	.014"	25,000	1	10
B	1 3/8"	1/4"	13-C 110	.008"	25,000	1	10
B	2"	5/8"	13-C 120	.0118"	25,000	1	10
B	3"	1/4"	13-C 123	.0118"	12,000	1	10
B	3"	3/4"	13-C 125	.0118"	12,000	1	10
B	4"	1/4"	13-C 128	.0118"	6,000	1	10
C	1 1/2"		13-C 015	.0118"	13,000	1	10
C	2 3/8"		13-C 018	.0118"	13,000	1	10



Crimped



Type	Dia.	Width	Order No.	Stainless Steel Wire	Max RPM	Std. Pkg.	Std. Ctn.
A	1/2"		13-C 053	.010"	25,000	1	10
A	1/2"		13-C 055	.020"	25,000	1	10
A	3/4"		13-C 058	.014"	25,000	1	10
B	1 3/8"	1/4"	13-C 160	.008"	25,000	1	10
B	2"	5/8"	13-C 170	.0118"	25,000	1	10
B	3"	1/4"	13-C 173	.0118"	12,000	1	10
B	3"	3/4"	13-C 175	.0118"	12,000	1	10
B	4"	1/4"	13-C 178	.0118"	6,000	1	10
C	1 1/2"		13-C 065	.0118"	13,000	1	10
C	2 3/8"		13-C 068	.0118"	13,000	1	10



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

Knot-twisted



Type	Dia.	Width	Order No.	Tool steel wire	Max RPM	Std. Pkg.	Std. Ctn.
D	1 1/8"		13-C 020	.020"	25,000	1	10
E	2 3/4"	3/8"	13-C 130	.020"	25,000	1	10
F	3"	1/2"	13-C 270	.020"	25,000	1	10
G	4"	1/2"	13-C 370	.020"	12,000	1	10



> Knot-twisted wire for heavy-duty brushing such as deburring, removing heavy rust and corrosion, etc.

Knot-twisted



Type	Dia.	Width	Order No.	Stainless Steel Wire	Max RPM	Std. Pkg.	Std. Ctn.
D	1 1/8"		13-C 070	.020"	20,000	1	10
E	2 3/4"	3/8"	13-C 180	.020"	20,000	1	10



Knot-twisted without shaft



Type	Dia.	Width	Arbor	Order No.	Tool Steel Wire	Max RPM	Std. Pkg.	Std. Ctn.
E	3"	3/8"	3/8" - 1/2"	13-C 303	.0118"	25,000	1	10
E	4"	3/8"	1/2" - 5/8"	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).

Reusable adaptor kit

For depressed center wheels

Order No. 08-B 031



Mandrels for ZIP wheels

Flush mounting mandrels

with 1/4" shaft, for wheel thickness up to 1/8"

Order No.

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"

Order No.

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



General purpose mandrels

with 5/16" shaft

Order No.

For 3" and 4" wheels, 3/8" arbor

11-L 005

Extension mandrels for use on angle grinders

5/8"-11 thread

07-C 006

Two wheels can be mounted on each mandrel.



1/4" shaft for TWIST backing pads

with 1/4"-20 thread

For 2" and 3" pads

Order No. 04-X 001



Wheel dressers

For bench grinder wheels

Standard type

Order No. 12-E 001

Heavy-duty

Order No. 12-E 002



Replacement wheels

Set for 12-E 001

Order No.

12-E 004

Set for 12-E 002

12-E 005

Wire brush adaptors and mandrels

	Order No.	
Use these threaded adaptors to convert brushes with $\frac{5}{8}$ "-11 arbor		
To M10 × 1.25 female	13-D 001	
To M10 × 1.5 female	13-D 002	
To $\frac{3}{8}$ "-24 female	13-D 003	
To $\frac{3}{8}$ "-16 female	13-D 007	

Clamping flanges

Clamping flange set to mount 9" cut-off wheels on $\frac{5}{8}$ "-11 spindles
Order No. 30-B 022



Clamping nuts

For grinders with $\frac{5}{8}$ "-11 spindle
Order No. 30-B 037



SPIN-ON performance kit

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.



Order No. 30-B 024

Quick release backing flange

For quick and easy removal of wheel
Order No. 30-B 057



Special heat resistant silicone ring for retention of the back flange to the spindle.
 Package of 10.

Order No. 30-B 027



Flanges for flush mounting wheels

Order No.
Flush Mounting Set
 for other brands of grinders with:
 $\frac{5}{8}$ "-11 spindle **Order No.** 30-B 021
 (includes special flange and clamping nut)



Spacer washers

For grinders with:
 $\frac{5}{8}$ "-11 spindle **Order No.** 07-Q 001



M14 × 2.0 spindle **Order No.** 07-Z 005



Pin keys

For all other clamping nuts
Order No. 48-Z 148



Driven by end-user needs, Walter Surface Technologies is continually innovating to offer tooling that incorporates the latest technology and materials.

Walter carbide burrs are specifically designed for use on portable power tools. As such they resist the high strains caused by tough operating conditions and allow the customer to take full advantage of their power tool's performance.

Our goal is to provide tooling that allows customers to work faster and with less effort.



C. Langlois

Tooling



CARBIDE BURRS



- > First grade tungsten carbide – For the toughest applications in a wide range of materials
- > Exclusive tooth design – Guarantees maximum cutting performance
- > Precise manufacturing – Burrs run perfectly true without vibration
- > High strength brazed joint – Stringent manufacturing process guarantees no breakage
- > Advanced flute geometry – Ensures maximum cutting capacity and chip evacuation from tip to bottom

Carbide burr production set

Contains one of each of the following:
01-V 002, 006, 011, 015 and 018

Order No. 01-V 990K



Carbide burrs

High performance

Our carbide burrs are made from first grade tungsten carbide and are manufactured with the highest degree of accuracy for perfect concentricity and balance. They offer fast material removal and longest life.

1/4" shank, double cut

	Burr Dia. × Length	Order No.	6" shank Order No.	Std. Pkg.	Std. Ctn.
	Cylindrical (SA)				
	1/4" × 5/8"	01-V 001	01-V 601	1	10
	5/16" × 3/4"	01-V 037	—	1	10
	3/8" × 3/4"	01-V 002	01-V 602	1	10
	7/16" × 1"	01-V 038	—	1	10
	1/2" × 1"	01-V 004	01-V 604	1	10
	Cylindrical round nose (SC)				
	1/4" × 5/8"	01-V 005	01-V 605	1	10
	5/16" × 3/4"	01-V 039	—	1	10
	3/8" × 3/4"	01-V 006	01-V 606	1	10
	7/16" × 1"	01-V 040	—	1	10
	1/2" × 1"	01-V 007	01-V 607	1	10
	Ball (SD)				
	1/4" × 7/32"	01-V 009	01-V 609	1	10
	3/8" × 5/16"	01-V 010	01-V 610	1	10
	1/2" × 7/16"	01-V 026	01-V 626	1	10
	5/8" × 9/16"	01-V 011	—	1	10
	Tapered (SG)				
	1/4" × 5/8"	01-V 044	01-V 644	1	10
	5/16" × 3/4"	01-V 045	—	1	10
	3/8" × 3/4"	01-V 046	01-V 646	1	10
	1/2" × 1"	01-V 013	01-V 613	1	10
	Tree (SF)				
	1/4" × 5/8"	01-V 041	01-V 641	1	10
	5/16" × 5/8"	01-V 042	—	1	10
	3/8" × 3/4"	01-V 014	01-V 614	1	10
	7/16" × 1"	01-V 043	—	1	10
	1/2" × 1"	01-V 015	01-V 615	1	10
	Cone (SL)				
	1/4" × 5/8"	01-V 017	—	1	10
	5/16" × 7/8"	01-V 051	—	1	10
	3/8" × 1 1/16"	01-V 031	01-V 631	1	10
	5/8" × 3/16"	01-V 052	01-V 652	1	10
	1/2" × 1 1/8"	01-V 032	—	1	10
	Conical (SM)				
	1/4" × 1/2"	01-V 047	—	1	10
	1/4" × 3/4"	01-V 048	—	1	10
	1/4" × 1"	01-V 049	—	1	10
	3/8" × 5/8"	01-V 050	—	1	10
	1/2" × 7/8"	01-V 018	—	1	10
	Egg (SE)				
	3/8" × 5/8"	01-V 027	—	1	10
	1/2" × 7/8"	01-V 028	—	1	10
	Flame (SH)				
	5/16" × 3/4"	01-V 029	—	1	10
	1/2" × 1 1/4"	01-V 030	—	1	10

1/4" shank, non-ferrous, aluminum and soft metals, single cut

Shape	Burr Dia. × Length	Order No.	Std. Pkg.	Std. Ctn.
CYLINDRICAL (SA)	3/8" × 3/4"	01-V 003	1	10
CYLINDRICAL ROUND NOSE (SC)	1/2" × 1"	01-V 008	1	10
TREE (SF)	1/2" × 1"	01-V 016	1	10
CONE (SL)	3/8" × 1 1/4"	01-V 036	1	10

1/4" shank, hard alloys, double cut

Shape	Burr Dia. × Length	Order No.	Std. Pkg.	Std. Ctn.
CYLINDRICAL ROUND NOSE (SC)	1/2" × 1"	01-V 033	1	10
TREE (SF)	1/2" × 1"	01-V 034	1	10
CONE (SL)	1/2" × 1 1/8"	01-V 035	1	10

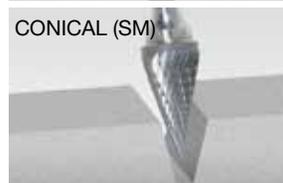
1/8" shank, double cut

Shape	Burr Dia. × Length	Order No.	Std. Pkg.	Std. Ctn.														
CYLINDRICAL (SA)	1/8" × 9/16"	01-V 020	1	10														
BALL (SD)	1/8" × 1/8"	01-V 021	1	10														
TREE (SF)	1/8" × 1/2"	01-V 022	1 </tr <tr> <td>TAPERED (SG)</td> <td>1/8" × 1/2"</td> <td>01-V 023</td> <td>1</td> <td>10</td> </tr> <tr> <td>CONE (SL)</td> <td>1/8" × 1/2"</td> <td>01-V 024</td> <td>1</td> <td>10</td> </tr> <tr> <td>CONICAL (SM)</td> <td>1/8" × 7/16"</td> <td>01-V 025</td> <td>1</td> <td>10</td> </tr>	TAPERED (SG)	1/8" × 1/2"	01-V 023	1	10	CONE (SL)	1/8" × 1/2"	01-V 024	1	10	CONICAL (SM)	1/8" × 7/16"	01-V 025	1	10
TAPERED (SG)	1/8" × 1/2"	01-V 023	1	10														
CONE (SL)	1/8" × 1/2"	01-V 024	1	10														
CONICAL (SM)	1/8" × 7/16"	01-V 025	1	10														

Burr diameter	Maximum cutting speed (RPM) for standard length burrs	Maximum cutting speed (RPM) 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	Plastics	x	-
Brass	x	x	Hard rubber	x	-
Bronze	x	-	Steel - 45-55Rc	x	-
Cast iron	x	-	Steel - 55-60Rc	x	-
Copper	-	x	Steel - Carbon	x	-
Carbon fiber	-	x	Steel - Nickel		
Fiberglass	x	-	Chrome	x	-
Inconel	x	-	Steel - Stainless	x	-
Magnesium	-	x	Steel - Weldments	x	-
Plastics	x	-	Titanium	x	-
Hard rubber	x	-	Zinc	-	x



Order No.	Description	Page	Order No.	Description	Page
01V001	CARBIDE BURR	100	04L200	2" FX DISC	86
01V002	CARBIDE BURR	100	04L300	3" FX DISC	86
01V003	CARBIDE BURR-ALU	101	04T204	TWIST FELT DISC	87
01V004	CARBIDE BURR	100	04T304	TWIST FELT DISC	87
01V005	CARBIDE BURR	100	04U321	3" BLENDEX U TWIST-2SF	87
01V006	CARBIDE BURR	100	04U322	3" BLENDEX U TWIST-6SF	87
01V007	CARBIDE BURR	100	04U323	3" BLENDEX U TWIST-6AM	87
01V008	CARBIDE BURR-ALU	101	04X001	1/4"-20 SHAFT/TWIST	96
01V009	CARBIDE BURR	100	04X202	2" TWIST PACKING PAD - MEDIUM	87
01V010	CARBIDE BURR	100	04X203	2" TWIST PACKING PAD - HARD	87
01V011	CARBIDE BURR	100	04X302	3" TWIST PACKING PAD - MEDIUM	87
01V013	CARBIDE BURR	100	04X303	3" TWIST PACKING PAD - HARD	87
01V014	CARBIDE BURR	100	06A452	4-1/2 X 5/8 ENDUROFLEX TURBO	44
01V015	CARBIDE BURR	100	06A502	5 X 5/8-11 ENDUROFLEX TURBO	44
01V016	CARBIDE BURR-ALU	101	06A602	6 X 5/8-11 ENDUROFLEX TURBO	44
01V017	CARBIDE BURR	100	06B454	4-1/2 GR40 ENDURO-FLEX	42
01V018	CARBIDE BURR	100	06B456	4-1/2 GR60 ENDURO-FLEX	42
01V020	CARBIDE BURR	101	06B458	4-1/2 GR80 ENDURO-FLEX	42
01V021	CARBIDE BURR	101	06B462	4-1/2 GR120 ENDURO-FLEX	42
01V022	CARBIDE BURR	101	06B504	5" GR40 ENDURO-FLEX	42
01V023	CARBIDE BURR	101	06B506	5" GR60 ENDURO-FLEX	42
01V024	CARBIDE BURR	101	06B508	5" GR80 ENDURO-FLEX	42
01V025	CARBIDE BURR	101	06B512	5" GR120 ENDURO-FLEX	42
01V026	CARBIDE BURR	100	06B604	6" GR40 ENDURO-FLEX	42
01V027	CARBIDE BURR	100	06B606	6" GR60 ENDURO-FLEX	42
01V028	CARBIDE BURR	100	06B608	6" GR80 ENDURO-FLEX	42
01V029	CARBIDE BURR	100	06B612	6" GR120 ENDURO-FLEX	42
01V030	CARBIDE BURR	100	06F454	4-1/2 GR40 ENDURO-FLEX-ST	43
01V031	CARBIDE BURR	100	06F456	4-1/2 GR60 ENDURO-FLEX-ST	43
01V032	CARBIDE BURR	100	06F458	4-1/2 GR80 ENDURO-FLEX-ST	43
01V033	CARBIDE BURR	101	06F462	4-1/2 GR120 ENDURO-FLEX-ST	43
01V034	CARBIDE BURR	101	06F504	5" GR40 ENDURO-FLEX-ST	43
01V035	CARBIDE BURR	101	06F506	5" GR60 ENDURO-FLEX-ST	43
01V036	CARBIDE BURR - ALU	101	06F508	5" GR80 ENDURO-FLEX-ST	43
01V037	CARBIDE BURR -	100	06F512	5" GR120 ENDURO-FLEX-ST	43
01V038	CARBIDE BURR -	100	06F604	6" GR40 ENDURO-FLEX-ST	43
01V039	CARBIDE BURR -	100	06F606	6" GR60 ENDURO-FLEX-ST	43
01V040	CARBIDE BURR -	100	06F608	6" GR80 ENDURO-FLEX-ST	43
01V041	CARBIDE BURR -	100	06F612	6" GR120 ENDURO-FLEX-ST	43
01V042	CARBIDE BURR -	100	07A001	BLENDEX PAD HOLDER	69
01V043	CARBIDE BURR -	100	07A100	6X9 BLENDEX PAD-MAROON	69
01V044	CARBIDE BURR -	100	07A200	6X9 BLENDEX PAD-GREY	69
01V045	CARBIDE BURR -	100	07A300	6X9 BLENDEX PAD-TAN	69
01V046	CARBIDE BURR -	100	07A400	6X9 BLENDEX PAD-GREEN	69
01V047	CARBIDE BURR -	100	07A500	6X9 BLENDEX PAD-WHITE	69
01V048	CARBIDE BURR -	100	07C005	EXTENSION M14 / 6" FX	96
01V049	CARBIDE BURR -	100	07C006	EXTENSION 5/8"-11 /FX	96
01V050	CARBIDE BURR -	100	07F002	BELT DRIVE ROLLER	80
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04A256	2-1/2" FLAP DISC - GR60	86	07F051	5-1/4" DRUM-SOFT / 5/8-11	79
04A258	2-1/2" FLAP DISC - GR80	86	07F093	3-1/2" REPL. BLADDER	79
04A262	2-1/2" FLAP DISC - GR120	86	07F095	5-1/4" REPL. BLADDER	79
04D203	2" TOPCUT DISC - GR 36	86	07F364	3.5"X15.5" GR40 DRUM BELT	79
04D205	2" TOPCUT DISC - GR 50	86	07F366	3.5"X15.5" GR60 DRUM BELT	79
04D206	2" TOPCUT DISC - GR 60	86	07F368	3.5"X15.5" GR80 DRUM BELT	79
04D208	2" TOPCUT DISC - GR 80	86	07F371	3.5"X15.5" GR120 DRUM BELT	79
04D210	2" TOPCUT DISC - GR 100	86	07F504	5-3/8" GR40 DRUM BELT	79
04D212	2" TOPCUT DISC - GR 120	86	07F506	5-3/8" GR60 DRUM BELT	79
04D303	3" TOPCUT DISC - GR 36	86	07F508	5-3/8" GR80 DRUM BELT	79
04D305	3" TOPCUT DISC - GR 50	86	07F511	5-3/8" GR120 DRUM BELT	79
04D306	3" TOPCUT DISC - GR 60	86	07H242	BLENDEX STRIP BELT-COARSE	80
04D308	3" TOPCUT DISC - GR 80	86	07H243	BLENDEX STRIP BELT-MEDIUM	80
04D310	3" TOPCUT DISC - GR 100	86	07H244	BLENDEX STRIP BELT-FINE	80
04D312	3" TOPCUT DISC - GR 120	86	07H245	BLENDEX STRIP BELT-S FINE	80
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04G205	2" BLENDEX TWIST - S. FINE	87	07H365	3.5X15.5"BLEND DRUM BELTSF	81
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04G303	3" BLENDEX TWIST - MED	87	07H503	5-3/8" BLENDEX DRUM BELT/M	81
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07J428	4-1/4X2 GR.80 FLAP DRUM	78
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07M423	4-1/4X2" BLENDEX DRUM-MED	78
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15E654	3X1-1/2 FINE THREADED 2IN1	68	15M064	6" TURBO PAD - BLACK	66
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15E658	3X1-1/2 POLISH THREAD 2IN1	68	15P453	4-1/2" GR36 TOPCUT DISCS	65
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15F006	1-1/2X3/8X60 FLAP WHEEL	67	15P458	4-1/2" GR80 TOPCUT DISCS	65
15F008	1-1/2X3/8X80 FLAP WHEEL	67	15P502	5" GR24 TOPCUT SAND DISCS	65
15F012	1-1/2X3/8X120 FLAP WHEEL	67	15P503	5" GR36 TOPCUT SAND DISCS	65
15F054	1X3/8X40 FLAP WHEEL	67	15P506	5" GR60 TOPCUT SAND DISCS	65
15F056	1X3/8 GR60 FLAP WHEEL	67	15P508	5" GR80 TOPCUT SAND DISCS	65
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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 the 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 in 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 poorly 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 OSHA, ANSI, CSA, WHMIS 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 70 °F (22 °C).

SAFETY SEMINAR

Walter offers free in-plant safety seminars to promote the safe use of abrasives. Reserve your safety seminar today by calling: **1-866-592-5837**.

Walter Surface Technologies

810 Day Hill Road
Windsor, CT 06095
Phone: 1-860-298-1100
Fax: 1-860-298-1112
Email: info@jwalterinc.com
www.walter.com

CUSTOMER SERVICE:

Toll-Free: 1-800-522-0321
Fax Orders: 1-866-274-4435
Email: orderdesk@jwalterinc.com

TECHNICAL/PRODUCT SUPPORT:

Toll-Free: 1-866-JWALTER
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