



### CHOOSE THE SLIMCUT™ THAT IS RIGHT FOR YOU!





### **SLIMCUT™**

**FOR ALUMINUM** 

Long life and aggressive cutting. Non-loading on aluminum and non-ferrous metals. Engineered for cutting aluminum quickly without clogging



### SLIMCUT™ PLUS COMBO

**ALUMINUM OXIDE** 

CUT & GRIND wheels combo wheels can be used for cutting, notching, deburring and light grinding... ALL WITH 1 WHEEL!



All Slimcut<sup>™</sup> abrasive wheels are in stackable plastic containers to protect from damage and moisture. 25 wheels per container, easy to carry and store.

Except Slimcut™ Plus Combo



# ALL SLIMCUT™ WHEELS ARE AVAILABLE IN T-1 AND T-27

SS = For stainless steel



### SMALL DIAMETER CUT-OFF WHEEL





#### **PREMIUM**

**SILICON CARBIDE** 

For masonry, concrete, stone, cast iron and non-ferrous metals.

### LARGE DIAMETER CUT-OFF WHEEL



### DIAMOND BLADES FOR METAL APPLICATIONS - XTREMETM



- ULTRA THIN KERF
- VACUUM BRAZED **TECHNOLOGY**
- MAINTAINS BLADE DIAMETER
- FEWER BLADE CHANGES
- LESS DUST AND DEBRIS THAN CONVENTIONAL **ABRASIVE WHEELS**

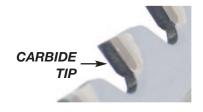


FAST CUTTING. NO WHEEL SHRINKAGE. FEWER WHEEL CHANGES. SS

## LOWEST COST PER CUT!

## CARBIDE TIP BLADES - TC-1000™





Pearl's Titanium Carbide Tip metal blades (TC-1000™) are designed to cut a variety of metals with fewer burrs, less dust and reduced material burning than abrasive products. They provide much longer life than traditional abrasive wheels. The Pearl TC-1000™ blades are engineered with a triple chip design for added durability.



### PEARL'S FINE-GRIT BACK LAYER IMPROVES GRINDING ACTION!

Our Fine, Hard Back Depressed Center Grinding Wheels feature a finer-grit mixture in the top half of the grinding wheel that limits premature shedding or "spalling" and allows for a smoother grinding action from start to finish.

- Designed for maximum productivity
- Longer wheel life
- Engineered to produce sharp beveled edges
- · Extra durable with minimal stress
- A coarse grit bottom added for efficiency and safety





### PREMIUM D.A. SERIES FOR ALUMINUM

Exclusive non-loading formula. For Soft Non-Ferrous Metals, Copper, Brass, Bronze etc.



# PREMIUM FOR MASONRY

**SILICON CARBIDE** 

For Concrete, Stone, Cast Iron and Non-Ferrous Metals.

steel = For stainless steel





**PEARL** 

### FLEXIBLE GRINDING WHEELS

GRINDING, SHAPING, FINISHING OR SANDING....
ONE WHEEL DOES IT ALL!





5 REASONS THE PEARL FLEXIBLE GRINDING WHEELS GIVE A BETTER FINISH:

- 1. Flexible wheels are extremely versatile
- 2. Increase grinding surface area
- 3. Superior surface finish
- 4. Less vibration
- 5. Exclusive non-woven reinforcement



ONTAMINATION FREE (S)

### TYPE-11 GRINDING CUP STONES



# METAL-BACKED FOR ADDED SAFETY!

For grinding and cleaning applications. Coarse grit wheel for tough grinding applications. Excellent for cleaning castings, mold marks, removing flashing.



### BENCH GRINDING WHEELS



Wheels are not affected by water, oils or acids. Each wheel is balanced and ring tested. One size wheel can fit several different machines using the included bushing set. Use Aluminum Oxide bench grinding wheels for general purpose tool sharpening, light to heavy stock removal on ferrous metals carbon steel, steel and iron. Use Green Silicon Carbide bench grinding wheels for fast burr-free grinding of tungsten carbide tipped tools, ferrous and non-ferrous metals.





FROM CUTTING AND GRINDING
TO DEBURRING ALUMINUM,
PEARL HAS THE
SOLUTIONS YOU NEED!

**WORKS WITH MOST 7" & 9" GRINDERS!** 





### MAXIDISC™ FLAP DISCS

# CHOOSE THE MAXIDISC™ THAT IS RIGHT FOR YOU!



### **1** APPLICATIONS

Pearl Abrasive offers an assortment of Maxidiscs<sup>™</sup> for specific applications on a variety of materials.

- Stainless Steel
  - ess Steel Aluminum
- Carbon Steel
- Glass
- Sheet Metal
- Stone

- Iron
- High Tensile Alloys

### **2** ABRASIVE MATERIALS

- Pearl Abrasive uses only the best abrasive grains and backing material for our Maxidiscs™.
- We only use 100% polyester or a combination of polyester/cotton, NEVER PAPER.
- Pearl's unique way of embedding the grains to a durable polyester or polyester/cotton backing results in a construction that provides superior performance and life.
- Aluminum Oxide, zirconia, ceramic and silicon carbide grains.

### 3 DISC CONFIGURATIONS & HUB BACKING TYPES

 Pearl Abrasive offers a variety of flap configurations for specific applications.
 Variables to consider in overall flap configuration are:

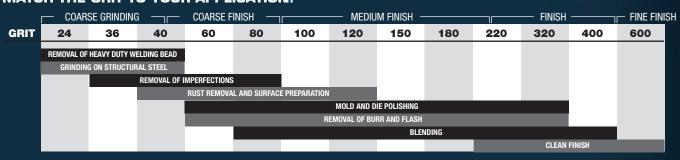
Flap Angle - For flexibility, and Disc Shape - For aggressiveness

- Type 27 and Type 29. 5/8-11 center.
- Conventional fiberglass or trimmable back.

#### **CHOOSE YOUR APPLICATIONS:**

- Polishing
- Grinding
- Stock removal
- Weld blending
- Cleaning
- Finishing
- Edge chamfering
- Burr removal
- Sanding
- Deflashing
- Paint removal

### **MATCH THE GRIT TO YOUR APPLICATION:**



### **CHOOSE THE GRAIN:**

### ALUMINUM OXIDE



Premium Blue-fired. Friable Aluminum Oxide with active grinding agent.

The wedge shape of this tough grain is made for long life and stock removal. The cutting edges work great for grinding and cutting:

- Ferrous metals
- Iron
- Steel

#### **ZIRCONIA**



100% Zirconia with active grinding agent.

This extremely tough and sharp gain is made for **high stock removal**. Long life and cool running are characteristics of the high performance grain. Its constant selfsharpening edges work well on:

- Ferrous metals
- Stainless steel
- · Other high tensile alloys

### SILICON CARBIDE



Manufactured crystalline compound with active grinding agent.

A very hard and sharp abrasive grain that allows for very **fast stock removal** and at the same time runs cool. Silicon carbide grains work well with very light pressure. This grain is made to

- Stone, concrete, marble and granite Non-ferrous metals such as inum, bronze as well as glass

#### ZIRCONIA FOR STAINLESS STEEL



Proprietary zirconia with special active grinding agent.

This special grain was developed for superior work on stainless steel. The mixture of zirconia and aluminum oxide was developed to avoid overheating, glazing and discoloration. It has exceptional stock removal

properties.
• Stainless steel

#### **CERAMIC**



Special crystalline nonfused ceramic aluminum oxide grain with grinding agent.

work, extremely long life, and high stock removal on stainless steel and other metals. The crystalline structure allows for micro-fracturing of the abrasive grain during operation which constantly produces sharp edge
• Stainless steel • Ferrous metals

Other high tensile alloys

#### **CHOOSE YOUR FLEXIBILITY:**



Discs with less flexibility are designed for aggressive stock removal. Discs with low flexibility are excellent for grinding where a lot of material needs to be removed.

Discs with high flexibility are designed for light grinding, sanding, blending, and finishing. Highly flexible discs are also ideal for increased flexibility when working on uneven or curved surfaces.

#### **CHOOSE YOUR SHAPE:**



Use Type 29 Maxidiscs™ for the maximum aggressiveness and full use of each flap when grinding at an angle.

TYPE 27

Use Type 27 Maxidiscs™ for smooth grinding, blending and increased flexibility.

### **CHOOSE YOUR HUB BACKING:**





### MAXIDISC™ FLAP DISCS - ALUMINUM OXIDE FOR METAL



### MAXIDISC™ FLAP DISCS - ZIRCONIA FOR METAL/STAINLESS STEEL



### MAXIDISC™ FLAP DISCS - CERAMIC FOR METAL/STAINLESS STEEL



#### **REDLINE™ CBT**

High performance

#### REDLINE™ CBT TRIMMABLE

High performance trimmable. Available with Quickmount™

# UP TO 50% HIGHER STOCK REMOVAL RATE THAN ZIRCONIA FLAP DISCS!

#### PEARL'S CERAMIC BONDED TECHNOLOGY™ (CBT™) GRAIN

is a non-fused ceramic aluminum oxide that is extremely strong and durable. It is a very fine crystalline structure, which allows for micro-fracturing of the abrasive grain. This promotes constant generation of new edges allowing for longer life and faster stock removal throughout the entire life of the wheel. In addition, CBT<sup>TM</sup> grains perform exceptionally well on stainless steel.



- Faster stock removal compared to aluminum oxide and zirconia radial flap discs in the same class
- Longer life compared to aluminum oxide and zirconia flap discs in the same class
- · Grinds cool Doesn't burn the work piece
- Grains remain sharp through entire life of the wheel – "self sharpening"
- Exceptional performance on stainless steel and other high tensile alloys
- · Consistent surface finishes



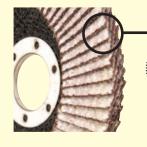
### MAXIDISC™ FLAP DISC - FOR ALUMINUM



# PREMIUM FOR ALUMINUM

ALUMINUM OXIDE CALCIUM STEARATE

Twice the life of a traditional flap disc on aluminum and other non-ferrous metals. This cost effective disc has higher production rates than other flap discs because it is specifically designed for aluminum.



#### **Calcium Stearate**

Calcium stearate coating on abrasive material liquefies with heat and doesn't allow the disc to load.



**INTERLEAF** 

BEFORE

**Aluminum Oxide Grains** 

### MAXIDISC™ FLAP DISCS - NON-WOVEN ALUMINUM OXIDE

NEW!

2021



### **BRITEMAX™ NON-WOVEN**

Maxidisc™ BriteMax™ is created of high-quality aluminum oxide grains in overlapping non-woven flaps resulting in high durability and long life. The disc is designed to offer maximum performance and safety.

Applications: Surface conditioning, deburring, blending, cleaning, removal of rust, corrosion, mild scale, paint, adhesives





**DUALMAX™ INTERLEAF** 





Premium coated abrasive layer for quick, controlled and cool removal of material.

Surface conditioning flaps ensure an even finish, even at low pressure.

### RESIN FIBER DISCS COATED ABRASIVES





### FAST STOCK REMOVAL THAN STANDARD CERAMIC GRAIN!





SRTMax™ Ceramic breakdown

Standard Ceramic breakdown

The new Pearl SRTMax  $^{\text{TM}}$  grain is manufactured in a new way that results in a much finer crystalline structure. This unique mineral fracture gives the abrasive product a longer life and more aggressive grains with an improved self-sharpening effect.

TOP-SIZE added cooling agent for cool grinding and extremely long life!



Top-Size (Additive Coat)

Ceramic Grain Size Coat Base Coat Backing



- Grains remain sharp through entire life of the wheel - "self sharpening"
- Exceptional performance on stainless steel and other high tensile alloys
- Consistent surface finishes
- Resists glazing and loading

# Available with Type 2 Arbor Lock

Available with Pearl's Type 2 arbor lock fastener. This allows the operator to make quick disc changes, with a tool-free twist on and off motion. They can be used with standard back-up pads. With these quick change fasteners, the operator can change discs quickly allowing more time to grind/sand.

### **CARBIDE BURS**



= For stainless steel



The Double Cut is the most popular bur for ferrous materials. The flutes are precision ground in both left and right directions, offering aggressive stock removal and a smooth finish.

The Aluminum Cut is designed to be used on Non-Ferrous metals and has an open cut for aggressive stock removal and avoids loading of material on softer metals.

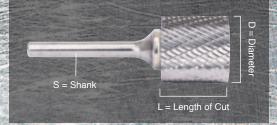


# PEARL CARBIDE BUR SPECIFICATIONS

- Precision ground tungsten carbide for aggressive cutting and long life
- Double Cut allows for smooth operation with little or no vibration
- Ideal for smaller, hard-to-reach areas
- Excellent for weld dressing, smoothing castings and shaping holes
- 1/4" Shank

#### **SELECTING THE RIGHT PRODUCT**





SA	CYLINDRICAL PLAIN END	Ideal for contour finishing
SB	CYLINDRICAL WITH END CUT	Ideal for finishing contour and right angled corners
SC	CYLINDRICAL BALL NOSE	Ideal for machining contour and circular arc surface
SD	BALL	Ideal for rounded edge processing, end deburring and end pre-machining before welding
SE	OVAL	ldeal for rounded edge processing
SF	ARCH BALL NOSE	Ideal for rounded edge processing in small places
SG	ARCH POINTED NOSE	Ideal for processing small places, and acute angled contour
SH	FLAME	ldeal for rounded edge processing
SK	90° CONE	Ideal for counterboring and chamfering bores with 90° angle
SL	CONICAL BALL NOSE	Ideal for rounded edge and surface processing in small places
SM	CONICAL POINTED NOSE	Ideal for rounded edge and surface processing in small places
SN	INVERTED CONE	ldeal for rearside chamfering





### HIGH QUALITY, INDUSTRIAL GRADE WIRE BRUSHES FROM PEARL!



#### **KNOT CUP**

- Removal of rust, scale, paint, and corrosion
- Cleaning and preparation of large metal surfaces
- · Tempered and stainless wire



#### **CRIMPED CUP**

- Light and medium duty cleaning and surface prep
- Removal of rust, scale, paint, burrs, and corrosion



### BANDED (BRIDLE) KNOT CUP

- · Band prevents wire from flaring
- Aggressive and controlled brushing for very heavy-duty applications



#### **BENCH WHEEL**

- Removal or rust, scale, paint and other coatings
- Light deburring, edge finishing, and surface finishing/cleaning



### KNOT WHEEL STRI-NGER BEAD TWIST

- · Bead scale removal
- Cleaning root and hot passes and reaching into corner
- Tempered and stainless wire



# KNOT WHEEL REGULAR TWIST

- Cleaning filler & cap passes
- Removing residues of adhesive, hard scale, rust, and paint
- Tempered & stainless wire



### **CRIMPED WHEEL**

- Light duty brushing, deburring, edge blending and cleaning
- Removal of rust and corrosion



### 12" CRACK CLEANING BRUSH

- Removes fillings from expansion joints
- Longer wire to get deeper into crevices. Excellent for working on concrete or asphalt



SS

# CRIMPED WHEEL END BRUSH

- Removal or rust, scale, splatter, dirt, paint and other coatings
- Internal and external cleaning and deburring
- Tempered and stainless wire



#### **CRIMPED END BRUSH**

- Flexible brushing good for light-duty cleaning of corners and other contoured surfaces
- Broad range of general purpose applications
- Tempered and stainless wire



#### **KNOT END BRUSH**

- Aggressive with some flexibility good for cleaning/deburring internal passages, recessed areas, and spot facing
- Cleaning of dies, molds, and tooling
- Tempered and stainless wire

Also available: 10-PACK PREMIUM WIRE BRUSHES



STAINLESS WIRE Made with 304 stainless

### SCRATCH BRUSHES



3 X 19 CURVED HANDLE WIRE SCRATCH BRUSH



4 X 16 SHOE HANDLE WIRE SCRATCH BRUSH



3 X 7 SMALL CLEANING WIRE SCRATCH BRUSH



ACID BRUSH





#### FEATURES:

- High performance products manufactured from a tight nonwoven fiber web with a woven backing and impregnated with specially processed aluminum oxide grain
- Tough, long lasting and build-up resistant
- Discs feature a Hook & Loop fastening system

Deburring, blending, cleaning, and removal of rust, corrosion, mild scale, paint, adhesives





Also available: BACK UP PADS For hook & loop surface conditioning discs. Firm bonded pad with 1/4" foam



### QUICKMOUNT™ MINI CONDITIONING DISCS

#### **FEATURES:**

- Fast, clean and easy to use
- Non-loading
- Does not gouge, mark or scratch base material
- Type R style

#### APPLICATIONS:

- Surface prep before coating & painting
- Remove rust, paint and oxidation
- Remove weld discoloration
- Clean tools and engine parts



WARNING! Abrasive products MUST NOT be used without proper personal protective equipment and approved dust control methods. Failure to do so may result in the inhalation of respirable crystalline silica and can cause serious or fatal respiratory diseases, including silicosis.

#### **Dust and Silica Warning**

The use of abrasive tools generate dust. This dust may contain respirable crystalline silica. Repeated and/or substantial inhalation of airborne crystalline silica can cause serious or fatal respiratory diseases, including silicosis. In addition. California and some other authorities have listed respirable crystalline silica as a substance known to cause cancer.

These products **MUST NOT** be used without (1) proper personal protection equipment that has been fit tested to the worker, and (2) dust containment and collection systems, or (3) integrated water delivery systems. Acceptable work practices and recommendations for dust control methods can be found in the 29 CFR §

If you are unfamiliar with the risks associated with cutting, grinding, or polishing quartz, quartzite, granite, sintered material, concrete, mortar, brick, or block, please review the products' material safety data sheet and/or consult your employer, the manufacturers /suppliers, or governmental agencies such as OSHA and NIOSH and other sources on the hazardous of these materials.



WARNING: Products in this catalog can expose you to the following chemicals, which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, go to www.p65Warnings.ca.gov

Formaldehyde, Cobalt, Nickel, Lead



## OXIDE

Premium general purpose. Non-woven and laminated cloth discs.



## **CERAMIC**

Super high performance ceramic. Laminated cloth discs.





### 6 x 9" ULTRA PREP™ NON-WOVEN HAND PADS

Use for Finishing, Blending, Polishing, Deburring, Cleaning (Light Duty to Heavy Duty)

- Easily conforms to substrate surface for maximum contact
- Can be cut and shaped for specific applications
- Non-loading for consistent finish
- Tough construction to resist shredding and increase life

Fibers are coated on all sides for maximum life and abrasive performance!



### SURFACE PREP WHEELS



### TURBO CUT™ DISC **SILICON CARBIDE**

CONCRETE/STONE For Stone, Cast Iron, Non-Ferrous Metals and Floor Coatings

> Also available: HEAVY DUTY RUBBER BACK UP PADS



### TURBO CUT™ DISC HARD BACK

**SILICON CARBIDE** 

General Surface Cleaning and Prep on Concrete, Metal, Wood, Stone, Fiberglass. Remove coatings, paint, rust, old adhesives, grime. Clean and prep hard surfaces without removing base material. Remove high spots on plywood deck floors. No back up pad required.





### SILICON CARBIDE

**WHEEL - GREY** 

NON-FERROUS Stone, Glass, Plastic, Bronze, Ceramics, Aluminum



#### STRIPPING DISCS

METAL/STAINLESS STEEL Ferrous Metals, Iron, Steel and Stainless Steel. Paint, Rust, Stain Removal.

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### FLAP WHEELS

#### **ALUMINUM OXIDE**

Metal, Ferrous Metals, Iron, Steel, Stainless Steel, Aluminum, Copper, Wood, Plastic and Fiberglass.

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= For stainless steel







