



# INDUSTRIAL TOOLS & ACCESSORIES

## ELECTRIC • AIR • HYDRAULIC

**Abrasives**  
**Annular Cutters**  
**Band Saws**  
**Beveling & Deburring Machines**  
**Chain Saws**  
**Concrete Saws**  
**Corner Drills**  
**Diamond Core Drilling Machines**  
**Drills & Drive Units**  
**Dust Extraction Tools**  
**Flap Discs**

**Grinders & Polishers**  
**Hammer Drills**  
**Magnetic Drills**  
**Mixers**  
**Nibblers**  
**Non-Sparking Tools**  
**Nut Runners**  
**Pipe Sanders**  
**Power Hacksaws**  
**Reciprocating Saws**  
**Surface Finishers**  
**Vacuums**



800-700-5919

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*... the power of innovation!®*

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# UNITEC

**PNEUMATIC • ELECTRIC • HYDRAULIC  
PORTABLE SAWS**

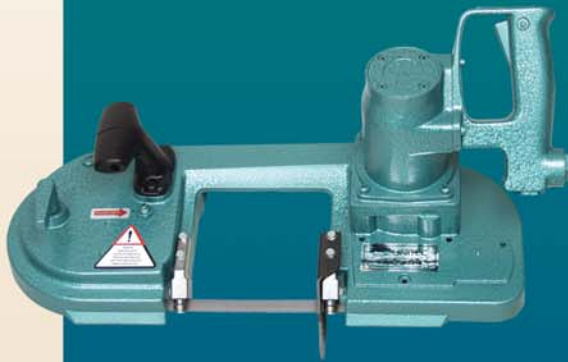
**HACKSAWS**

**RECIPROCATING SAWS**

**BAND SAWS**

**CHAIN SAWS**

**CUT-OFF SAWS**



**For Cutting  
Pipe, Structural  
Steel, Wood,  
Plastic, Concrete  
and Masonry**

## Heavy-duty Saws... Fast, accurate cutting on the job site!

CS Unitec's portable saws and tools are ideal for cutting pipe, structural steel, tanks, bolts, angle iron, concrete and other materials, including plastic and wood. We offer the widest range of portable pneumatic, electric and hydraulic saws in the industry.

Our saws can be used as hand-held tools or with an assortment of clamps for pipe and other materials. All CS Unitec saws are heavy-duty for use in industry and construction. Our complete saw line includes pneumatic-, electric- and hydraulic-powered tools, saw blades and accessories, all available for prompt delivery.

CS Unitec is the industry leader in:

- *Portable saws for cutting pipe, metal, concrete, etc.*
- *Compact, lightweight, hand-held and clamp-mounted saws*
- *The best power-to-weight ratios*
- *Long-lasting, heavy-duty saw blades for fast cutting of steel, stainless steel, Inconel, chrome, Hastelloy, aluminum, iron, plastics, masonry, concrete and other materials*

We offer:

- *Pneumatic-, electric- and hydraulic-powered saws*
- *Clamps for 90° cutting of pipe, structural steel and other materials*
- *Compact sizes for sawing in confined spaces*



### Tool and Accessory Index:

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## Choose your Power...



### Pneumatic-powered Saws

- ATEX Approved for use in hazardous areas
- Reliable and require less maintenance
- High power-to-weight ratios

**ATEX Approved**



### Electric-powered Saws

- Ideal for heavy-duty cutting applications in industry and construction
- Simple and easy to use
- Available in 110 Volt/60Hz or 220 Volt/50Hz



### Hydraulic-powered Saws

- Utilized for special cutting situations, such as underwater
- Ideal for professional sawing and drilling applications where hydraulic power is the norm

## Choose your Cutting Method...



### Hand-held

We lead the industry in rugged portable saws that are ideal for free-hand cutting applications.



### 90° with Pipe Clamps

Our portable saws are ideal for right-angle cutting of pipe and structural steel using chain clamps or vise-on clamps.



### Track-mounted

We offer a variety of clamps for applications that require the saw to be stable.

## Choose your Heavy-duty Blades and Chains...



### Reciprocating

Our extensive blade line includes a complete range of blades for reciprocating saws.



### Heavy-duty Thick

90° cutting with a clamp is easy when you use our heavy-duty thick blades.



### Chains and Blades

We offer diamond chains, carbide chains and chisel chains, as well as diamond saw blades, for a wide variety of sawing applications.

# Reciprocating Air Saws

ATEX Approved

## Compact, Quiet & Reliable

**Low Vibration/Low Air Volume**  
Cut Pipe, Structural Steel, Sheet Metal, Fiberglass, Plastic and More.

- Piston air motors use low air volume (CFM) while maintaining a fast cutting speed (2000 to 10,000 strokes per minute)
- Safe around gas and other flammable materials; recommended for fire and rescue applications where high CFM isn't available
- ATEX Approved – for use in hazardous areas
- CL and PL saws use standard hand hacksaw blades; convert to a 3/4" blade size simply by changing the nosepiece
- Rugged saw bodies constructed of heavy-duty cast steel and aluminum
- Built-in lubrication system automatically lubricates the motor
- Safety STOP/Isolator button disconnects air supply



### Lubricating Oils (see p. 29)

- ProLube™ is a super-premium, low-viscosity synthetic air tool lubricant
- ProLube-ATL/AF is a special blend preventing freezing in cold climate conditions

### MS Cleaner (MS 9105)

- An ideal conditioner for air tools used underwater



**PL Saws - For High-volume Production Environments**

p. 5



**CL Saws - For Demanding Maintenance Applications**

p. 6



**JP Saws - For Fiberglass and Sheet Metal Production**

p. 7

## Cengar Air Saw Blades

### 1/2" Wide Bi-metal Blades (for CL50, JP901 and PL905)

HB300/18	Hand	18 TPI	12" L
HB300/24	Hand	24 TPI	12" L
HB300/32	Hand	32 TPI	12" L
MC220/24	Machine	24 TPI	8 1/2" L
MC260/24	Machine	24 TPI	10 1/2" L
MYN150/18	Notched Yellow	18 TPI	6" L
MYT150/18	Tapered Yellow	18 TPI	6" L

### 3/4" Wide Bi-metal Blades (for CL75)

MB150/18	Machine	18 TPI	6" L
MB150/24	Machine	24 TPI	6" L
MB200/18	Machine	18 TPI	8" L
MB200/24	Machine	24 TPI	8" L
MB250/18	Machine	18 TPI	10" L
MB250/24	Machine	24 TPI	10" L
MB300/10	Machine	10 TPI	12" L
MB300/14	Machine	14 TPI	12" L
MB300/18	Machine	18 TPI	12" L



# Reciprocating Air Saws

**ATEX Approved**



*Ideal for cutting pipe, metals, fiberglass and more*



**Model PL905**  
Sturdy air saw for continuous use

**RECIPROCATING SAWS**

## Low Vibration • Low Noise

- Ideal for high-volume production applications such as cutting steel, repairing wooden pallets, building and repairing truck bodies and cutting fiberglass
- Also widely used by oil and gas contractors and fire rescue services
- Sturdy cast steel and aluminum saw body
- Low air volume – only 4 CFM



**Cut Sheet Metal**

**Standard Equipment:**  
carrying case, five MC220/24 saw blades, air tool oil, CD operating manual, allen key.



**Cut Nails**

- 7/8" blade stroke, up to 2000 strokes per minute
- Fitted with easy-to-use STOP/Isolator button on the handle for safety when changing blades
- Uses any 1/2" (12mm) wide Bi-metal hand, machine or yellow blades
- Easily converted to fit our 3/4" wide Bi-metal blade

### Cengar Saw Blades and Accessories (see page 4)

- 1/2" and 3/4" wide Bi-metal Blades suit a wide range of applications
- To fit our 3/4" Bi-metal blades, order 3/4" nosepiece – Part. No. 5075



Model PL905	
Motor Power	1 HP
Stroke Length	7/8"
Strokes per Min.	2000
Weight	5 1/4 lbs.
Length x Height x Width	11 3/4" x 5 1/4" x 1 5/8"
Air Consumption	4 CFM
Air Pressure	90 PSI
Air Connection	1/4" NPT
Air Hose	1/4" ID
Noise Level (dB)	69
Vibration Level (m/s <sup>2</sup> )	1.73

# Reciprocating Air Saws

ATEX Approved

Ideal for cutting metal, timber and fiberglass



**Models CL50 & CL75**  
Rugged air saws for versatile applications

## Low Vibration • Low Noise

- Workhorses for use in the fabrication, shipbuilding, ship repair, oil and petrochemical, boat building and aircraft maintenance fields
- Also utilized by fire and rescue professionals
- 1<sup>3</sup>/<sub>4</sub>" blade stroke, up to 1200 strokes per minute
- Fitted with easy-to-use STOP/Isolator button on the handle for safety when changing blades
- CL50 uses any 1/2" (12mm) wide Bi-metal hand or machine blade and can be easily converted to a CL75 by changing the nosepiece
- CL75 uses a 3/4" (19mm) wide Bi-metal machine blade



**Standard Equipment:** carrying case, five MC220/24 saw blades, air tool oil, CD operating manual, allen key.

### Cengar Saw Blades and Accessories (see page 4)

- 1/2" and 3/4" wide Bi-metal Blades suit a wide range of applications
- To fit our 3/4" Bi-metal blades, order 3/4" nosepiece – Part. No. 5075



## Models CL50 & CL75

Motor Power	1 HP
Stroke Length	1 3/4"
Strokes per Min.	1200
Weight	5 1/2 lbs.
Length x Height x Width	15 3/4" x 5 1/4" x 1 5/8"
Air Consumption	5 3/4 CFM
Air Pressure	90 PSI
Air Connection	1/4" NPT
Air Hose	1/4" ID
Noise Level (dB)	83
Vibration Level (m/s <sup>2</sup> )	3.69

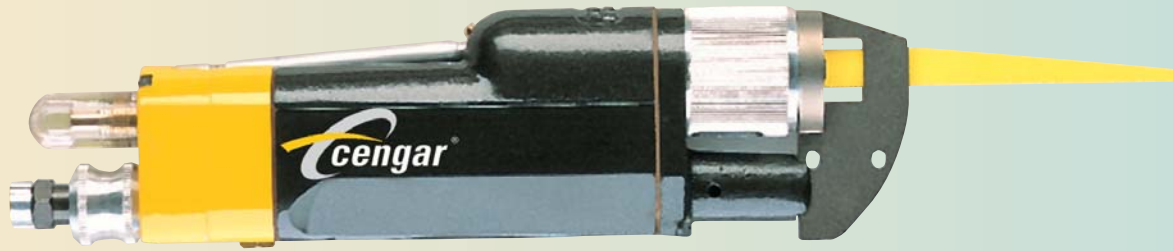


# Reciprocating Air Saws

ATEX Approved



Ideal for cutting fiberglass, light-gauge metal & fiberboard



## Model JP901

Speedy, lightweight air saw for repair and construction environments

### Low Vibration • Low Noise

- Ideal for cutting fiberglass, light-gauge metal and fiberboard up to  $\frac{3}{8}$ " (10mm) thick
- Utilized by boat builders and in the construction and repair of car, bus and truck bodies
- Low air consumption – only 4 CFM
- $\frac{3}{8}$ " blade stroke, up to 10,000 strokes per minute
- Has automatic lubrication and an easy-to-use STOP/Isolator button on the handle for safety when changing blades
- JP901 uses any  $\frac{1}{2}$ " (12mm) wide Bi-metal hand, machine or yellow blades and can be easily converted to use  $\frac{3}{4}$ " blades by simply changing the nosepiece



**Standard Equipment:** carrying case, five MYN150/18 saw blades, five MYT150/18 saw blades, air tool oil, CD operating manual, allen key.

### Cengar Saw Blades and Accessories (see page 4)

- $\frac{1}{2}$ " and  $\frac{3}{4}$ " wide Bi-metal Blades suit a wide range of applications
- To fit our  $\frac{3}{4}$ " Bi-metal blades, order  $\frac{3}{4}$ " nosepiece – Part. No. 5075



### Model JP901

Motor Power	1 HP
Stroke Length	$\frac{3}{8}$ "
Strokes per Min.	10,000
Weight	3 $\frac{1}{2}$ lbs.
Length x Height x Width	10 $\frac{3}{4}$ " x 2 $\frac{3}{4}$ " x 1 $\frac{5}{8}$ "
Air Consumption	4 CFM
Air Pressure	75 PSI
Air Connection	$\frac{1}{4}$ " NPT
Air Hose	$\frac{1}{4}$ " ID
Noise Level (dB)	69
Vibration Level (m/s <sup>2</sup> )	1.23

RECIPROCATING SAWS

# Portable Reciprocating Saws

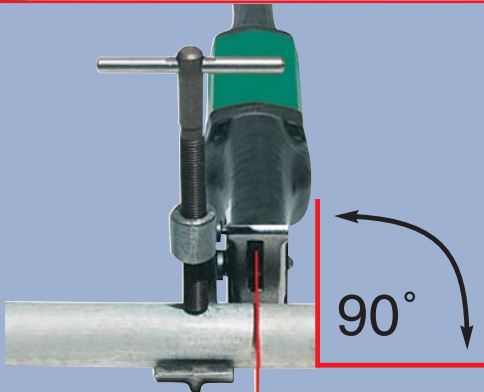
**The most powerful  
in the industry!**

**Hand-held or clamp-on cutting  
in tough environments**

**Pneumatic • Electric**

**Ideal for a wide range  
of industries, including gas  
utilities, offshore oil, petrochemical,  
power generation, industrial plant  
maintenance and construction**

- **Fast cutting of pipe, structural steel, bolts, nails, pallets and other material**
- **The best power-to-weight ratios in the industry**
- **Compact size allows cutting in confined spaces**
- **ANC gear drive reduces friction and increases gear life and power output**
- **Cut steel pipe and channel up to 6" dia. (or plastic pipe up to 8" dia.)**
- **90° cuts with optional clamps**



**The CAT - 1.3 HP Pneumatic Reciprocating Saw** p. 10



**The WOLF - 1.6 HP Pneumatic Reciprocating Saw** p. 11



**The FOX - 9.5 and 12 Amp Electric Reciprocating Saws** p. 12

## Pipe Clamps for 90° Cutting

**Cut faster by increasing your leverage 5x while safely securing the saw with our Pipe Clamps.**

**1/2" - 2" Pipe Vise Clamp  
- order Model No. 259.983**

**2 1/2" - 4" Pipe Vise Clamp  
- order Model No. 563.100**

**1/2" - 6" Pipe Chain Clamp  
- order Model No. 251.259**





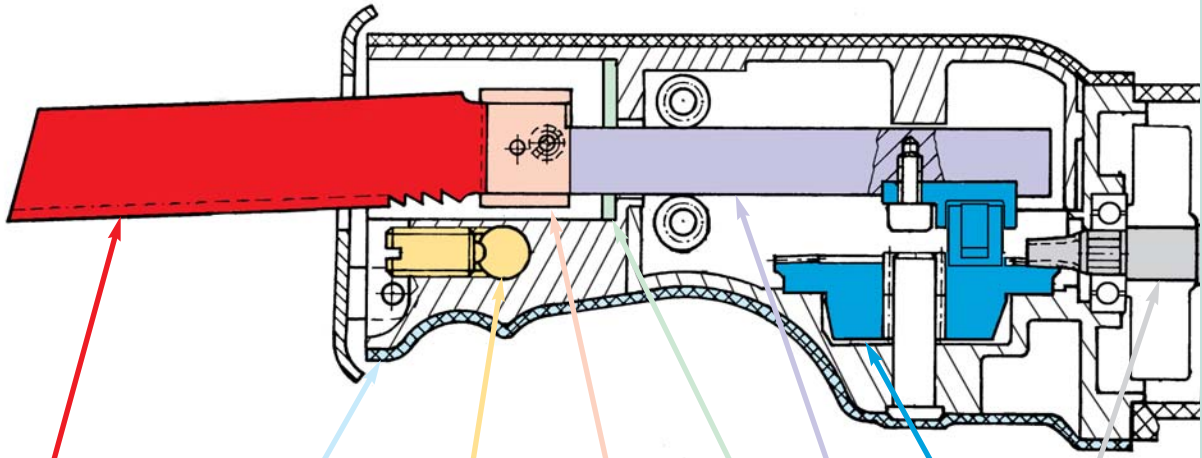
# Reciprocating Saws

## The New Generation Gear Head

**ANC = All-round Needle-bearing Crank Drive**



CS Unitec's reciprocating saws cut faster and last longer than other saws in their class. The ANC gear drive and heavy-duty air or electric motor provide the best power-to-weight ratio in the industry.



Universal 1/2" tang, double-tang or M-Tooth blade moves in aggressive orbital action

Ergonomically shaped housing grip

Pipe clamp connection

Patented saw blade mount

Silicone gasket

Patented square lift rod

ANC gear drive

Powerful, heavy-duty pneumatic or electric motor

## ANC Gear Drive: Low Friction • High Torque

The new, unique design of the ANC gear:

- reduces friction and wear, resulting in less heat and longer service life.
- resists dust and water, making the gear head maintenance free.
- allows for aggressive high-torque cutting, providing good chip flow and long blade life.

## Reciprocating Saw Blades



### Standard Blades

All CS Unitec reciprocating saws can use the widely available standard reciprocating blades with the 1/2" universal tang.



### Heavy-duty Blades

These blades are much thicker than standard blades and have a stronger double-tang mount for heavy-duty cutting, either free-hand or with a clamp.



**Cut in Both Directions!**

### M-Tooth Blades

Unique tooth geometry allows these blades to cut in both directions – twice as fast!

Extremely versatile, CS Unitec's reciprocating saws use the universal 1/2" tang or special double-tang saw blades (see page 13). Our extra-thick saw blades resist bending and cut pipe at right angles with a pipe clamp.

In addition, CS Unitec's Mega Sharp M-Tooth saw blades (see page 13) have a unique, patented tooth geometry that allows these blades to cut quickly with each stroke, forward and back, saving time and money.

RECIPROCATING SAWS

# 1.3 HP Pneumatic Reciprocating Saw

Ideal for cutting pipes, structural steel, pallets and more

## The CAT



Model 5 1217 0020  
Use hand-held or with a clamp



Model 5 1217 0020 includes carrying case and two No. 1001 heavy-duty blades.

**ATEX Approved**



Saw Kit (5 1217 0060) includes saw, 6" pipe clamp, case and five No. 1001 heavy-duty blades.

- Cuts steel pipe and channel 1/2" to 4" dia., plastic pipe to 8" dia.
- Ideal for the toughest use in refineries, chemical plants, gas utilities, construction, offshore oil, mining, marine and demolition industries
- 1.3 HP air motor provides more power than conventional air saws
- 1 1/8" blade stroke for fast, efficient cutting
- Can be mounted on a pipe clamp to make 90° cuts
- Variable speed of 0-1800 strokes per minute
- Accepts universal saw blades or thicker, heavy-duty double-tang saw blades (see page 13)
- Molded rubber boot for ergonomic grip
- One-year warranty

### Pipe Clamps for Straight Cutting up to 6" dia.

- Increase leverage 5x for faster cutting
- Safely secure the saw while cutting



### Reciprocating Saw Blades and Accessories (see page 13)

- Universal saw blades
- Thicker, heavy-duty double-tang blades for 90° cuts
- M-Tooth blades to cut on forward and back stroke



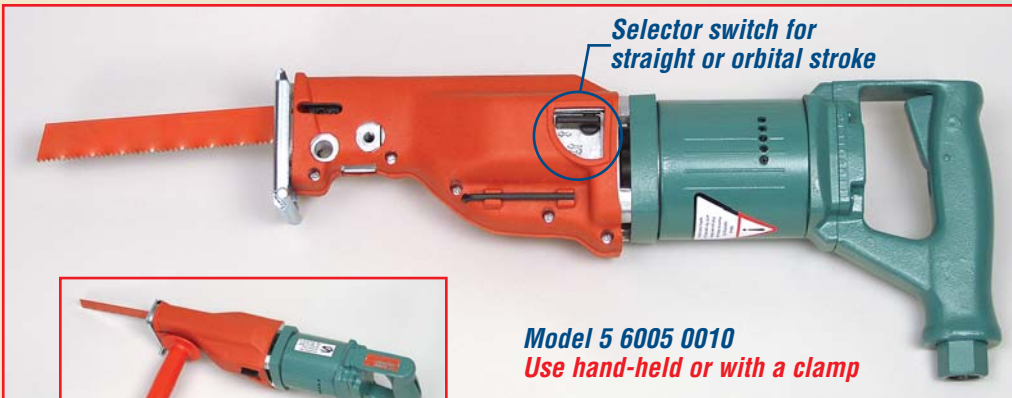
### Model 5 1217 0020

Motor Power	1.3 HP
Stroke Length	1 1/8"
Strokes per Min.	0-1800
Weight	9 lbs.
Length	15 7/8"
Air Consumption	46 CFM
Air Pressure	90 PSI
Air Connection	1/2" NPT (ID)
Saw Kit	Order Model 5 1217 0060



# 1.6 HP Pneumatic Reciprocating Saw

Ideal for cutting pipe, structural steel and other materials



## The WOLF



Shown with side handle

Model 5 6005 0010  
Use hand-held or with a clamp

- Cuts steel pipe and channel 1/2" to 6" dia., plastic pipe to 8" dia.
- Powerful 1.6 HP motor with reciprocating action for steel and long orbital stroke for cutting soft materials including wood, plastic and aluminum
- Can be mounted on a pipe clamp to make 90° cuts
- 1 1/8" blade stroke for fast, efficient cutting
- Selector switch changes stroke setting to either straight or orbital
- Variable speed from 0-2200 strokes per minute
- Accepts universal saw blades or thicker, heavy-duty double-tang saw blades (see page 13)
- Molded rubber boot for ergonomic grip; side handle included
- One-year warranty



Pipe Clamps for Straight Cutting up to 6" dia.

- Increase leverage 5x for faster cutting
- Safely secure the saw while cutting



Saw Kit (5 6005 0060) includes saw, 6" pipe clamp, case, side handle and five No. 1001 heavy-duty blades.



Reciprocating Saw Blades and Accessories (see page 13)

- Universal saw blades
- Thicker, heavy-duty double-tang blades for 90° cuts
- M-Tooth blades to cut on forward and back stroke



### Model 5 6005 0010

Motor Power	1.6 HP
Stroke Length	1 1/8"
Strokes per Min.	0-2200
Weight	10 3/4 lbs.
Length	17 3/4"
Air Consumption	51 CFM
Air Pressure	90 PSI
Air Connection	1/2" NPT (ID)
Saw Kit	Order Model 5 6005 0060

# 9.5 and 12 Amp Electric Reciprocating Saws

*Ideal for demolition, pipe repair, pallets and more*

## The **FOX** mini hacksaws - the industry's most powerful electric recip saws!

- Cut steel pipe and channel 1/2" to 4" dia., plastic pipe to 8" dia.
- Powerful 9.5 and 12 Amp motors, 110 Volt/60Hz (or 220 Volt/50Hz)
- Ideal for plumbing and electrical contractors as well as demolition jobs, cutting pallets and more
- Can be mounted on a pipe clamp to make 90° cuts
- 1 1/8" blade stroke for fast cutting
- 0-2200 variable stroke speed for models 5 6002 6000 and 5 6002 7000
- Accept universal saw blades or thicker, heavy-duty double-tang saw blades (see page 13)
- One-year warranty



*Model 5 6002 7000 with D-handle variable-speed trigger.*



*Models 5 6002 0000 and 5 6002 6000 with spade handle (below). Model 5 6002 6000 has variable-speed control dial.*



*Pipe Clamps for Straight Cutting up to 6" dia.*  
 • Increase leverage 5x for faster cutting  
 • Safely secure the saw while cutting



*Reciprocating Saw Blades and Accessories (see page 13)*

- Universal saw blades
- Thicker, heavy-duty double-tang blades for 90° cuts
- M-Tooth blades to cut on forward and back stroke



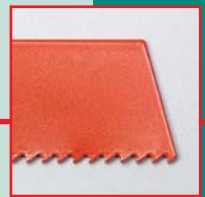
**Standard equipment includes 2" pipe clamp (#259.983), carrying case and two No. 1001 blades**

Model No.	Power	Stroke Length	Strokes per Min.	Handle Style	Length	Weight (lbs.)
<b>Single Speed</b>						
5 6002 0000	9.5 Amp, 110V*	1 1/8"	2200	Spade	19"	6
<b>Variable Speed</b>						
5 6002 6000**	12 Amp, 110V*	1 1/8"	0-2200	Spade	19"	6
5 6002 7000**	9.5 Amp, 110V*	1 1/8"	0-2200	D-handle	19"	6

\* 220 Volt also available \*\* 5 6002 6000 with speed control dial, 5 6002 7000 with variable-speed trigger.



# Reciprocating Saw Blades

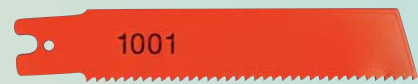


**Super quick and precise for pipe, steel, plastic, etc.**

**\*\*Use ProLube™ Specialty Lubricants with your Reciprocating Saw Blades to help your tools work cooler, longer and more efficiently. ProLube Lubricants are non-toxic and ideal for stainless steel and hard metal cutting applications. See page 31 for details.\*\***

## Extra-thick Blades for 90° Cutting with a Pipe Clamp, Double Shank\*

No. 1001	Cuts pipe up to 2"	8 TPI	6" L x 1" W x .060" T
No. 1002	Cuts pipe up to 4"	8 TPI	8" L x 1" W x .060" T
No. 007D/200*	Cuts pipe up to 4"	M-Tooth	8" L x 1" W x .050" T



\* 007D/200 has universal 1/2" tang • Ask for special blades to cut stainless steel.

## Heavy-duty HSS-Bi-metal Blades for Freehand Sawing, Double Shank

Made of tough resilient steel with 10/14 variable tooth pitch. The large blade width and double-shank mount deliver excellent cutting performance and durability.

No. 1005	10/14 TPI	6" L x 1" W x .035" T
No. 1003	10/14 TPI	8" L x 1" W x .035" T
No. 1004	10/14 TPI	12" L x 1" W x .035" T



## General-purpose Bi-metal Saw Blades with Universal 1/2" Shank

### Metal 1/8" and Thicker

No. 3013/150	14 TPI	6" L x 3/4" W x .035" T
No. 3013/200	14 TPI	8" L x 3/4" W x .035" T
No. 3018/280	10 TPI	12" L x 3/4" W x .035" T

### Metal up to 1/8" Thick

No. 3014/150	18 TPI	6" L x 3/4" W x .035" T
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### Metal up to 1/8" Thick (for Curved Cuts)

No. 3017/90	18 TPI	3 5/8" L x 5/16" W x .035" T
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### Plastic, Wood, Plasterboard

No. 3021/150	6 TPI	6" L x 3/4" W x .035" T
No. 3021/225	6 TPI	8" L x 3/4" W x .035" T
No. 3021/300	6 TPI	12" L x 3/4" W x .035" T

### All Woods with Steel (i.e. Embedded Nails)

No. 810C/150	8/10 TPI	6" L x 3/4" W x .035" T
No. 810C/225	8/10 TPI	9" L x 3/4" W x .035" T

### Cast Steel, Ductile Iron, Ceramics and Glass Fiber Products

No. D12/200	Tungsten Carbide Coarse	8" L x 3/4" W
-------------	-------------------------	---------------



## Mega Sharp M-Tooth Saw Blades for Freehand Cutting with Standard 1/2" Shank

### CUTS TWICE AS FAST!

M42 Bi-metal for cutting steel and stainless steel

### Metal 1/8" and Thicker

No. 007/150	M-Tooth	6" L x 3/4" W x .035" T
No. 007/200	M-Tooth	8" L x 3/4" W x .035" T
No. 007/280	M-Tooth	12" L x 3/4" W x .035" T

### Metal up to 1/8" Thick

No. 006/150	M-Tooth	6" L x 3/4" W x .035" T
No. 006/250	M-Tooth	7" L x 3/4" W x .035" T



The patented M-Tooth saw blade cuts 2x faster than ordinary blades. The teeth are designed to cut on the forward and back strokes, thereby saving time.



**Cuts in Both Directions!**



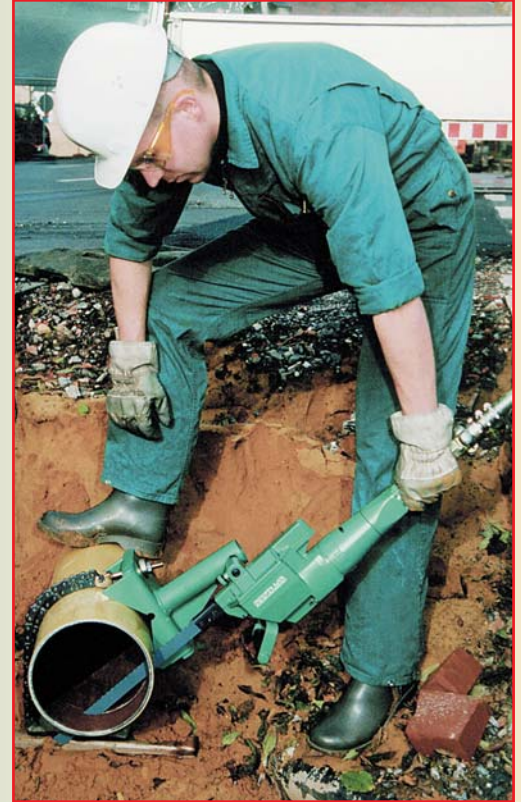
# Portable Hacksaws for Tough Duty

**On-site cutting of pipe up to 24" OD and structural steel**

**Pneumatic • Electric • Hydraulic**

CS Unitec's power hacksaws offer a wide range of options for portable cutting of pipe, structural steel, tanks and other materials. Our saws are designed for the toughest service in refineries, power plants, utilities, offshore oil, construction and demolition applications and are ideal for shutdowns and turnarounds in process piping industries. CS Unitec's pneumatic saws are safer than cutting with a welding torch in hazardous areas or confined spaces.

- Compact size, ideal for cutting in confined spaces
- 2 3/8" blade stroke
- Pipe clamps for 90° cutting of up to 24" OD pipe
- Profile clamps for structural steel
- Wide variety of blades and accessories for cutting steel, stainless steel, aluminum, plastic, wood and ductile iron
- Optional blade guide to ensure right-angle cuts
- Automatically cut pipe with our optional self-feeding, pneumatic-powered pipe clamp system



**Assorted pipe clamps for pipes up to 24" OD or profile clamps for structural steel**

**Heavy-duty saw blades from 8" to 37" long**

**HSS, HSS-SL, carbide-coated and boron-coated blades available**

**Twist or lever throttle**

**Pneumatic, electric or hydraulic motor**

**Pneumatic:**  
3/4" NPT Connection  
**Electric:**  
110 Volt (220V available)  
**Hydraulic:**  
3/8" FF (HTMA) Couplings

**Optional saw blade guide for added blade stability – ensures straight cutting!**

**Two sizes available (Not required)**



# Portable Power Hacksaws



## Air, Electric and Hydraulic for cutting pipe and steel

**Model 5 1212 0050**  
with lever throttle  
Pneumatic



ATEX Approved

3/4" NPT Air Connection

**Model 5 1215 0070**  
with variable speed  
Electric



11 Amps / 110 Volt (220 Volt Available)

**Model 5 1220 0010**  
Hydraulic



3/8" FF Couplings

- Pneumatic, electric or hydraulic motor with variable speeds
- Ideal for cutting pipe, tanks, structural steel, profiles and other materials
- Designed for the toughest service in refineries, chemical plants, utilities, pipelines, construction, offshore oil and demolition applications

Pipe Capacity

24" OD

Profile Capacity

21 3/4" h x 11 1/2" w

- Cut pipe up to 24" OD in one pass
- Chain clamps and profile clamps available for accurate 90° cutting of pipe and structural steel
- 2 3/8" stroke for heavy-duty cutting
- Ideal for cutting in confined spaces
- Accommodate heavy-duty blades up to 37" long
- Optional saw blade guides to increase blade stability
- Pneumatic pipe clamp system available for automatically cutting pipe; easily attaches to pneumatic hacksaw and shares same air supply (see accessory No. 5 1208 9940 on page 16)
- One-year warranty



Accessory Saw Blades  
(see page 17)

- HSS (High-speed Steel), HSS-SL (for stainless steel and hard metal), Carbide Coated and Boron Coated

### Throttle Types for Pneumatic Saws:



Roll Throttle (pneumatic model 5 1212 0010 only) – is used only with automatic feed pipe clamp (see page 16)

Lever Throttle (model 5 1212 0050) – provides on/off paddle switch for manual cutting with clamp

Model No.	Power	Throttle	Motor Specifications	Strokes per Min.	Blade Stroke	Hose	Weight (lbs.)
<b>Pneumatic - 3/4" ID NPT Air Connection</b>							
5 1212 0010	1.5 HP	Roll	Air Consumption: 51 CFM Air Pressure: 90 PSI	100-350	2 3/8"	1/2" ID	15.4
5 1212 0050	1.5 HP	Lever		100-350	2 3/8"	1/2" ID	15.4
<b>Electric - 11 Amps / 110 Volt**</b>							
5 1215 0070*	1.5 HP	Trigger	110V/60 Hz (220V/50Hz is available)	200-400	2 3/8"	Cable	13
<b>Hydraulic - 3/8" FF (HTMA) Couplings</b>							
5 1220 0010	3.8 HP	Roll	Oil Flow: 4 GPM at 2000 PSI	100-500	2 3/8"	1/2" ID	13.5

\* Model 5 1215 0070 has an electronic speed control dial. \*\*Also available as 220 Volt/50 Hz



# Hacksaw Accessories

## Automatic Feed Pipe Clamp for Pneumatic Saws



Model No. 5 1208 9940

- Save time and effort by automatically cutting pipe up to 12<sup>3</sup>/<sub>4</sub>" OD (up to 24" OD with extension chain)
- Self-feeding device saves operator time and makes work easier
- Easily attaches to CS Unitec pneumatic hacksaw and shares same 90 PSI air supply (Pipe clamp for use only with CS Unitec pneumatic hacksaw Model No. 5 1212 0010)
- Blade guide is optional (see below)

## Clamps for Pipes and Profiles

Ensure 90° cuts through pipe and profiles



Large Pipe Clamp,  
Model 5 1202 9960

Model No. 5 1207 9910  
6" OD pipe clamp

Model No. 5 1202 9960  
up to 12<sup>3</sup>/<sub>4</sub>" OD pipe clamp  
(up to 24" OD with extension  
chain shown below)

Model No. 5 1207 8970  
21<sup>5</sup>/<sub>8</sub>" x 11<sup>3</sup>/<sub>8</sub>" profile clamp



Small  
Pipe  
Clamp,  
Model  
5 1207 9910

Up to 6"  
pipe dia.



Profile Clamp,  
Model 5 1207 8970

## Extension Chains for Pipe Clamps



- Extend capacity of pipe clamps up to 24" OD

Model No. 5 1201 9010 – 17<sup>3</sup>/<sub>4</sub>" chain extension

Model No. 5 1201 9030 – 39<sup>3</sup>/<sub>8</sub>" chain extension  
(allows pipe clamp Nos. 5 1202 9960 and  
5 1208 9940 to fit 24" OD pipe)

## Blade Guides – Optional guides with two roller bearings

- Ensure straight cutting through pipe and difficult materials

Model No. 5 1207 9970  
for pipes up to 13" (20" min. blade length required)

Model No. 5 1207 8910  
for pipes up to 21" (30" min. blade length required)

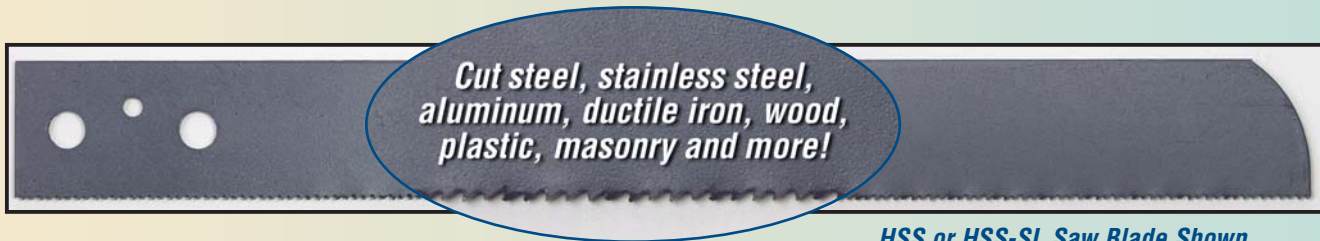




# Hacksaw Blades - 8" up to 37" long



**Heavy-duty cutting of pipe and structural steel**  
**Extra thick for 90° cutting**



HSS or HSS-SL Saw Blade Shown

**\*\*Use ProLube™ Specialty Lubricants with your Hacksaw Blades to help your tools work cooler, longer and more efficiently. ProLube Lubricants are non-toxic and ideal for stainless steel and hard metal cutting applications. See page 31 for details. \*\***

Order No.	Dimensions			Steel and Nonferrous Metal	Plastic and Wood	Ductile/Cast Iron and Masonry	Max. Dia. of Cut
	Length	Teeth/Inch	Thickness				
Z22-9 HSS	8"	8	1/16"	Steel/Aluminum	Plastics	—	3 1/8"
Z22-10 HSS	8"	16	1/16"	Steel	—	—	3 1/8"
Z22-11 HSS	8"	24	1/16"	Sheet Metal	—	—	3 1/8"
Z22-6 HSS	12"	16	1/16"	Steel	—	—	6 5/8"
Z22-6 HSS-SL*	12"	16	1/16"	Stainless Steel	—	—	6 5/8"
Z22-6 Carbide	12"	Coated	3/16"	—	—	Masonry	6 5/8"
Z22-31 HSS	12"	12	1/16"	Steel	—	—	6 5/8"
Z22-71 HSS	12"	4	1/16"	—	Plastics/Wood	—	6 5/8"
Z22-83 TDS	12"	Coated	3/32"	—	—	Ductile Iron	6 5/8"
Z22-7 HSS	16"	16	1/16"	Steel	—	—	10 5/8"
Z22-7 Carbide	16"	16	1/16"	—	—	Masonry	10 5/8"
Z22-29 HSS	16"	8	1/16"	Steel/Aluminum	Plastics	—	10 5/8"
Z22-32 WS	16"	4	1/16"	—	Plastics/Wood	—	10 5/8"
Z22-86 TDS	19"	Coated	7/64"	—	—	Ductile Iron	13"
Z22-72 HSS	20"	14	5/64"	Steel	—	—	14 5/8"
Z22-72 Carbide	20"	Coated	3/16"	—	—	Masonry	14 5/8"
Z22-30 HSS	21"	12	1/16"	Steel	—	—	15 5/8"
Z22-30 HSS-SL*	21"	12	1/16"	Stainless Steel	—	—	15 5/8"
Z22-40 HSS	21"	4	1/16"	—	Plastics/Wood	—	15 5/8"
Z22-73 HSS	24"	14	5/64"	Steel	—	—	18 1/2"
Z22-73 Carbide	24"	Coated	3/16"	—	—	Masonry	18 1/2"
Z22-74 HSS	24"	8	5/64"	Steel/Aluminum	Plastic	—	18 1/2"
Z22-75 HSS	30"	12	5/64"	Steel	—	—	24 7/8"
Z22-75 HSS-SL*	30"	12	5/64"	Stainless Steel	—	—	24 7/8"
Z22-37 HSS	37"	12	5/64"	Steel	—	—	31 7/8"

\* Use HSS-SL Blades for best cutting performance on stainless steel and hard metal.

# Portable Band Saws

**Fast, on-site cutting of pipe and other materials**

**Pneumatic • Electric • Hydraulic**

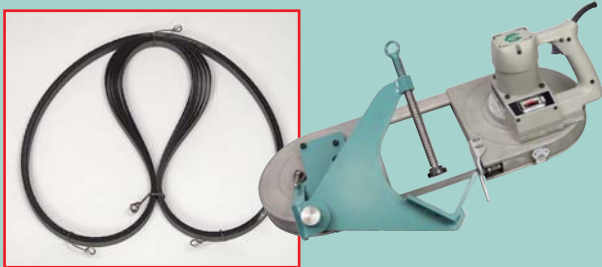
**Power for a wide range of industries**

- Ideal for the toughest use in refineries, chemical plants, gas utilities, construction, offshore oil, mining, marine and demolition industries
- Fast, deep cutting of pipe, conduit, bolts, cable, angle iron, structural steel, chain and more
- Cut steel, stainless steel, Inconel, chrome, Hastelloy, aluminum, copper, iron, fiberglass, plastics, wood and more



### Band Saw Accessories

We also offer a full line of Band Saw blades and accessories, including vise clamps for straight cutting. Please see page 21 for more information.



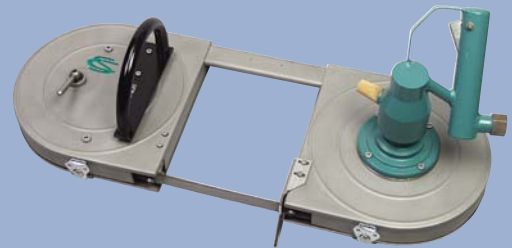
**4 3/4" AirBand™ Saw**

**p. 19**



**4 3/4" Electric Band Saw**

**p. 20**



**7" Deep Throat™ AirBand Saw**

**p. 19**



**7" Deep Throat™ Electric Band Saw**

**p. 20**



**4 3/4" and 7" Deep Throat™ Hydraulic Band Saws**

**p. 20**



# Pneumatic Portable Band Saws

ATEX Approved



Ideal for hazardous atmospheres and wet environments

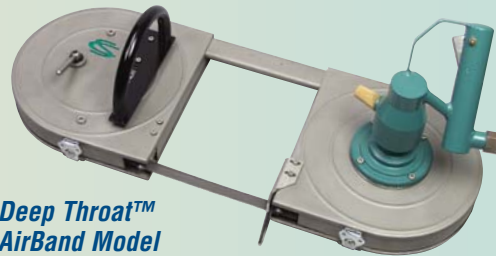
- Fast, on-site cutting
- Safer in hazardous atmospheres than electric saws
- Ideal for process shutdowns and turnarounds
- Reduces need for "hot work permits"
- No fear of electric shock or blown circuitry in wet environments
- AirBand™ models with aluminum housing cut up to 4<sup>3</sup>/<sub>4</sub>" OD
- Deep Throat™ models with planetary gearbox cut up to 7" OD



7" Cutting Capacity



**AirBand™ Model 5 6003 0010**  
4<sup>3</sup>/<sub>4</sub>" OD cutting capacity

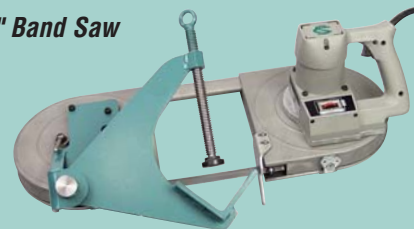


**Deep Throat™ AirBand Model 5 6031 0010**  
7" OD cutting capacity



**Vise Clamp for Straight Cutting**  
Securely clamp to round, square and angular materials for accurate cuts

**Model No. 5 6031 9400 – Clamp-on vise for 7" Band Saw**  
(Models 5 6031/5 6041/5 6047)  
Rounds: 7" (180mm);  
Squares: 5" (125mm);  
Angles: 5" (125mm)



Model No.	Motor Power and Specs.	Blade Speed (RPM)	Capacity		Blade Size	Housing	Overall Length	Air Connection	Air Hose	Wgt. (lbs.)
			Round	Rectangular						
<b>AirBand™</b>										
5 6003 0010	0.7 HP, 90 PSI, 20 CFM	Variable 130-220	4 <sup>3</sup> / <sub>4</sub> "	4 <sup>1</sup> / <sub>2</sub> " x 4 <sup>3</sup> / <sub>4</sub> "	44 <sup>7</sup> / <sub>8</sub> " x 1 <sup>1</sup> / <sub>2</sub> "	Aluminum	21 <sup>1</sup> / <sub>2</sub> "	1/4" NPT (ID)	3/8"	14
<b>Deep Throat™ AirBand</b>										
5 6031 0010	1.3 HP, 90 PSI, 43 CFM	Variable 240-295	7"	7" x 7"	66" x 5/8"	Stainless Steel	28 <sup>3</sup> / <sub>4</sub> "	1/2" NPT (ID)	1/2"	28

# Electric and Hydraulic Portable Band Saws

Construction, utility, marine and demolition applications

## Electric Band Saws



Electric Deep Throat™ Model 5 6047 0010 cuts a section of rail

- Ideal for plumbing and mechanical contractors, as well as demolition and plant maintenance
- Heavy-duty variable-speed motors operate on 110VAC; 220V available
- Standard models with aluminum housing cut up to 4<sup>3</sup>/<sub>4</sub>" OD
- Deep Throat™ models with stainless steel housing and planetary gearbox cut up to 7" OD
- Fast on-site cutting

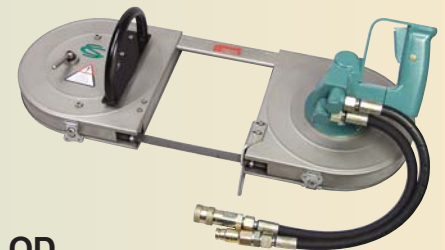


Electric Model 5 6046 0010

Model No.	Motor Power and Specs.*	Blade Speed (RPM)	Capacity		Blade Size	Housing	Overall Length	Weight (lbs.)
			Round	Rectangular				
<b>Electric</b>								
5 6046 0010	5.8 Amp, 110VAC	Variable 100-245	4 <sup>3</sup> / <sub>4</sub> "	4 <sup>1</sup> / <sub>2</sub> " x 4 <sup>3</sup> / <sub>4</sub> "	44 <sup>7</sup> / <sub>8</sub> " x 1 <sup>1</sup> / <sub>2</sub> "	Aluminum	21 <sup>1</sup> / <sub>2</sub> "	14
<b>Deep Throat™ Electric</b>								
5 6047 0010	5.8 Amp, 110VAC	Variable 100-245	7"	7" x 7"	66" x 5 <sup>5</sup> / <sub>8</sub> "	Stainless Steel	28 <sup>3</sup> / <sub>4</sub> "	28

## Hydraulic Band Saws

- Heavy-duty mining, utility, marine and construction applications
- Operate on 2000 PSI / 4 GPM (up to 13 GPM) hydraulic oil
- Standard models cut up to 4<sup>3</sup>/<sub>4</sub>" OD
- Deep Throat™ models with planetary gearbox cut up to 7" OD
- 3/8" Flush-face (HTMA) couplings and hoses are included



3/8" FF Coupling

Model No.	Motor Power Specs.	Blade Speed (RPM)	Capacity		Blade Size	Housing	Overall Length	Weight (lbs.)
			Round	Rectangular				
<b>Hydraulic - 3/8" FF (HTMA) Couplings</b>								
5 6043 0010	1.6 HP, 2000 PSI, 4 GPM	Variable 100-256	4 <sup>3</sup> / <sub>4</sub> "	4 <sup>1</sup> / <sub>2</sub> " x 4 <sup>3</sup> / <sub>4</sub> "	44 <sup>7</sup> / <sub>8</sub> " x 1 <sup>1</sup> / <sub>2</sub> "	Stainless Steel	22"	23
<b>Deep Throat™ Hydraulic - 3/8" FF (HTMA) Couplings</b>								
5 6041 0010	1.6 HP, 2000 PSI, 4 GPM	Variable 100-256	7"	7" x 7"	66" x 5 <sup>5</sup> / <sub>8</sub> "	Stainless Steel	28 <sup>3</sup> / <sub>4</sub> "	28



# Band Saw Blades and Accessories



## M42 Cobalt Steel SuperBand™ Saw Blades

CS Unitec's SuperBand™ saw blades are made of tough M42 steel. 8% cobalt gives our blades the highest heat resistance and wear resistance of all portable band saw blades. The hardness is Rc 67-69.

SuperBand™ saw blades easily cut most ferrous and nonferrous metals, including steel, stainless steel, Inconel, chrome, Hastelloy, tool steels, "super" alloys and other materials. Longer life, fewer blade changes and the fastest cutting rates result in SuperBand™ providing the lowest cost per cut.



### Blades for standard saws (Model Nos. 5 6003 0010, 5 6046 0010 and 5 6043 0010)

No. 9 2506 0010	18 TPI	Cuts material 1/8" - 1/4" thick	44 7/8" L x 1/2" W x .025" T
No. 9 2506 0020	14 TPI	Cuts material 3/16" - 1/2" thick	44 7/8" L x 1/2" W x .025" T
No. 9 2506 0030	10/14 TPI*	Cuts material 3/16" - 1/2" thick	44 7/8" L x 1/2" W x .025" T
No. 9 2506 0040	8/12 TPI*	Cuts material 1/2" and thicker	44 7/8" L x 1/2" W x .025" T



### Blades for Deep Throat™ saws (Model Nos. 5 6031 0010, 5 6047 0010 and 5 6041 0010)

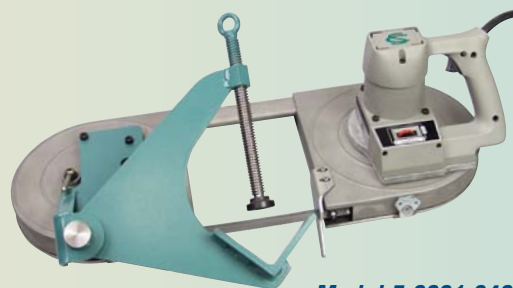
No. 9 2506 0220	14 TPI	Cuts material 3/16" - 1/2" thick	66" L x 5/8" W x .025" T
No. 9 2506 0230	10/14 TPI*	Cuts material 3/16" - 1/2" thick	66" L x 5/8" W x .025" T
No. 9 2506 0240	8/12 TPI*	Cuts material 1/2" and thicker	66" L x 5/8" W x .025" T
No. 9 2506 0200	8 TPI	Cuts material 3/4" and thicker	66" L x 5/8" W x .025" T



\* Variable tooth pitch (10/14 TPI and 8/12 TPI) saw blades cut faster and last longer than standard pitch blades. Varying tooth size and gullet depth reduce harmonic vibration for quieter, more efficient cutting.

## Vise Clamp for Accurate Cuts

- Securely clamp to round, square and angular materials for straight cutting
- Easily attach to CS Unitec Portable Band Saws, model numbers:  
5 6031 0010  
5 6041 0010  
5 6047 0010



Model 5 6031 9400  
with Band Saw

### Model No. 5 6031 9400

Clamp-on vise for 7" Deep Throat™ Band Saws

Maximum material size – rounds: 7"; squares: 5"; angles: 5"

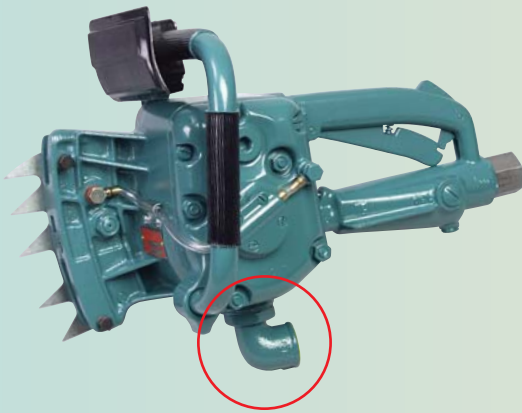


# 4 HP Pneumatic Chain Saw

**Powerful, efficient cutting of wood and plastic**

*Used successfully for many years in polyethylene plants, petrochemical industries, utilities, underground mines and marine applications*

**Model 5 1007 0040**  
25" cutting capacity



*Underwater chain saw shown with exhaust valve.*  
**Model Series 5 1008**



*Air Tool Line Conditioner for underwater air tools to displace moisture. Developed to inhibit rust and corrosion of air motors. 1 quart/liter, order part number **MS 9105***

- Ideal for use in polyethylene plants, petrochemical industries, utilities, underground mines and marine applications
- Pneumatic power is safer than gas or electric in hazardous atmospheres and wet environments, including underwater applications
- Low maintenance and easy startup – saw chain and motor are automatically oiled by two separate lubricating systems
- Powerful 4 HP motor at 90 PSI air pressure and 92 CFM
- Chain guard to protect operator
- Available with 15", 17", 21" and 25" cutting capacity
- .404 pitch Super Chisel saw chain is standard
- Carbide-tipped and Ripping saw chain are optional

Model No.	Power	Cutting Capacity	PSI	CFM	Length with Bar	Weight (lbs.)	Air Connection	Hose ID
<b>General Use</b>								
5 1007 0003	4 HP	15"	90	92	31"	16	3/4" NPT (ID)	5/8"
5 1007 0010	4 HP	17"	90	92	33"	18	3/4" NPT (ID)	5/8"
5 1007 0020	4 HP	21"	90	92	37"	19	3/4" NPT (ID)	5/8"
5 1007 0040	4 HP	25"	90	92	41"	20	3/4" NPT (ID)	5/8"
<b>Underwater Use*</b>								
5 1008 0030	4 HP	21"	90	92	37"	19	3/4" NPT (ID)	5/8"
5 1008 0040	4 HP	25"	90	92	41"	20	3/4" NPT (ID)	5/8"

\* Pneumatic Chain Saws with 15" and 17" cutting capacity are also available for underwater applications.



# Utility Pneumatic Chain Saw



## Compact, lightweight and powerful

- Ideal all-purpose air chain saw
- Only 5.4 lbs.
- 10" capacity
- Ideal for use in utilities, mines, construction and agriculture

### Model 5 1005 0010

Motor Power	1.2 HP
Cutting Capacity	10"
PSI	90
CFM	30
Length	21"
Weight	5.4 lbs.
Air Connection	1/4" NPT (ID)



Model 5 1005 0010  
10" cutting capacity  
Includes built-in chain oiler

## Chain Saw Extension Rod – extends saw reach to 7'

Part no.  
0165.0602

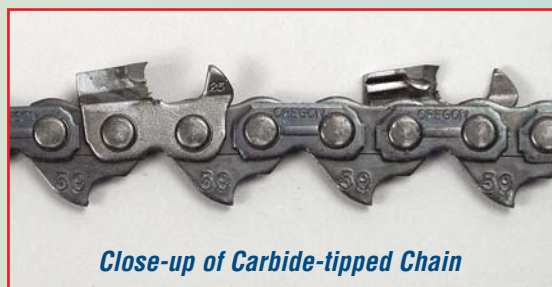
- For use with pneumatic chain saw, model no. 5 1005 0010 (above)

- Trigger on handle allows accurate control of speed



## Carbide-tipped Saw Chain

- More cutting efficiency with less down time
- Stays sharp 25x longer and lasts 10x longer than regular-life saw chains
- Efficiently cuts tough materials, including plastics, railroad ties, utility poles, hardwoods and soft masonry materials
- Withstands severe cutting conditions that include sand, mud, salvage work, etc.
- Easily resharpened
- Available in 10", 15", 17", 21" and 25" lengths



Close-up of Carbide-tipped Chain

Also available: Super Chisel and Ripping saw chain in 10", 15", 17", 21" and 25" lengths

## Guide Bars

- For wood and plastics
- Armor Tip available in 10", 15", 17", 21" and 25" lengths
- Sprocket Tip available in 10" length only





# Concrete Chain Saws

Pneumatic • Hydraulic

*Cut through walls, floors and columns in a single pass*



*Model CS 71773-2  
6.5 HP Air Motor*

*Built-in Wallwalker provides  
leverage to make cutting easier*

- Specifically designed for the demanding requirements of professional sawing and drilling contractors
- Deep plunge cuts – up to 14" deep
- Square corners up to 13" with no overcuts
- Cut mechanical openings and irregular shapes
- Easily cut through reinforced concrete, brick, block, concrete pipe and natural stone
- Durable industrial finish on die-cast aluminum body stands up to harsh environments
- Built-in Wallwalker provides leverage advantage to make cutting easier

**CS Unitec Offers 2 Types of Concrete Chain Saws to Meet Your Cutting Requirements:**

**CS 71773 Pneumatic**

- High torque output for tough cutting jobs
- Powerful 6.5 HP air motor
- No gas or engine fumes – ideal for confined spaces and indoor use
- Noise level: 88 dB at 3 feet (approx. 1 meter)
- Weight: 29 lbs. (without bar and chain)

**CS 71853 Hydraulic**

- Dependable, powerful 11 HP motor
- Hydraulic power for heavy-duty mining, utility, marine and construction applications
- Weight: 25 lbs. (without bar and chain)

*Plunge cut  
up to 14" deep!*

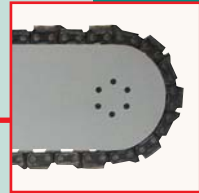


*Please see page 26 for Concrete Chain Saw Accessories, including:*

- *Diamond Chains*
- *Guide Bars*
- *SpeedHook®*
- *And More!*



# Concrete Chain Saws



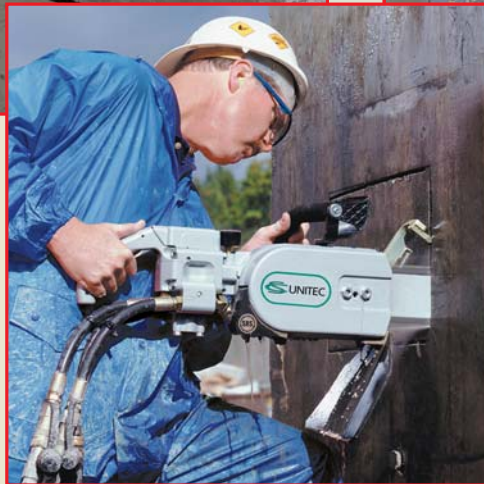
*Rugged construction for demanding applications*



*Above: Optional SpeedHook® guides saw for straight cutting.*



**Model CS 71853**  
**11 HP Hydraulic Motor**



**CONCRETE CHAIN SAWS**

Model No.	Power	No Load Speed	Max. Depth of Cut	Motor Specifications	Weight w/ Bar and Chain	No Load Torque (in.-lbs.)	Noise Level at 3 ft.
<b>Pneumatic Concrete Chain Saw</b>							
CS 71773-1	6.5 HP	5700 RPM	10"	124 CFM @ 90 PSI (6 bar)	32	104	88 dB
CS 71773-2	6.5 HP	5700 RPM	14"	124 CFM @ 90 PSI (6 bar)	33	104	88 dB
<b>Hydraulic Concrete Chain Saw</b>							
CS 71853-1	11 HP	5700 RPM	10"	8 GPM @ 2500 PSI (172 bar)	28	95	88 dB
CS 71853-2	11 HP	5700 RPM	14"	8 GPM @ 2500 PSI (172 bar)	29	95	88 dB



# Concrete Chain Saw Accessories

Make your concrete chain saw work for you

## Diamond Chains Three options for cutting



Match the Diamond Chain to the material or application:

- |  |   |   |
|--|---|---|
| <p><b>1.</b> <u>PremiumPRO</u><br/>For cutting concrete with steel reinforcement<br/>11" – CS 74715-11<br/>15" – CS 74717-15</p> | <p><b>2.</b> <u>TwinPRO</u><br/>General-purpose Diamond Chain<br/>11" – CS 74721-11<br/>15" – CS 74723-15</p> | <p><b>3.</b> <u>AbrasivePRO</u><br/>For cutting soft, abrasive material<br/>11" – CS 70717-11<br/>15" – CS 70721-15</p> |
|--|---|---|
- 11" chain has 28 segments for 10" max. cutting depth, 9" square corners
- 15" chain has 33 segments for 14" max. cutting depth, 13" square corners



## Guide Bars with internal water feed

11" Guide Bar  
CS 72269-11

- 10" cutting capacity
- 9" depth of square cut
- Accommodates a 28 segment Diamond Chain

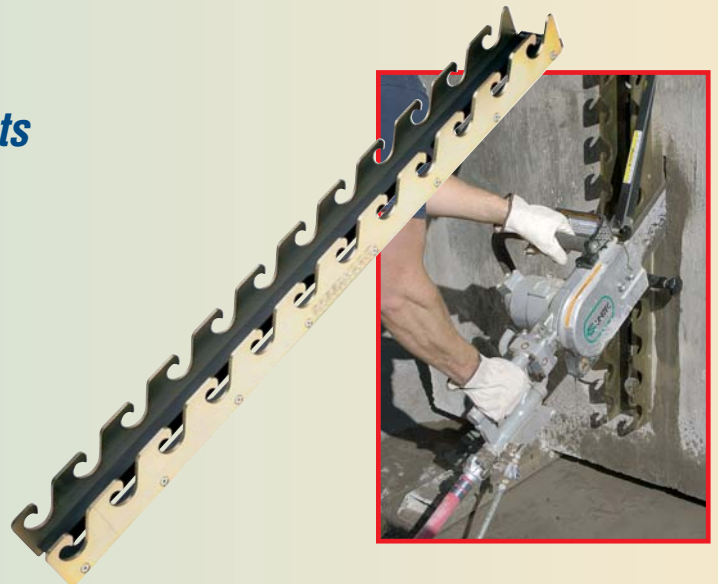
15" Guide Bar  
CS 72176-15

- 14" cutting capacity
- 13" depth of square cut
- Accommodates a 33 segment Diamond Chain

## SpeedHook® Guides the saw for straight cuts

SpeedHook® Complete Kit  
Part No. CS 70552  
(includes SpeedHook® 42" rail,  
1 saw adapter and 1 axle)

- Quickly and easily attaches to wall with anchors
- Guides saw for straight cutting through reinforced concrete, brick, block and natural stone
- Note: Reduces cutting depth by 3"





# Concrete Diamond Chain Life



## Maximize Diamond Chain life with these hints

Estimated chain life for PremiumPRO – 33 segment chain (Part No. CS 74717-15) is approximately 600 in.-ft. in concrete with up to 5/8" rebar.

Lineal feet in common wall thickness\*:

Wall Thickness	Lineal Cutting Feet
6 inches	100 feet
8 inches	75 feet
10 inches	60 feet

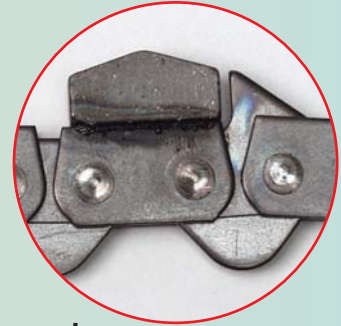
The cutting life of the chains is not guaranteed. There are many variables from job to job, including hardness of concrete, which make it impossible to accurately predict chain life. \*These numbers are rough, starting point estimates only, not for bidding purposes. Please refer to Operator's Manual for proper safety precautions.

Factors negatively affecting chain life:

- Steel reinforcing... many pieces of large diameter rebar cause reduced life
- Aggregate hardness... harder aggregates cause reduced life
- Operator experience... first-time users generally get less chain life

Cutting tips to improve chain life:

- Use minimum of 20 PSI water pressure
- Always cut at full throttle – slowly plunge into wall and push hard enough to cause the RPMs to drop by 25% to 30%
- Always apply steady feed force
- Slowly rock the bar and chain into the cut using Wallwalker® as a pry point
- Reduce arm motions – hold saw close to body, using legs and body to apply feed force; always cut with saw between shoulders and knees, preferably at waist height
- If saw begins to drift off the intended cut line, pull out and restart cut



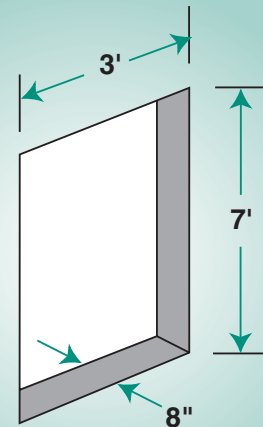
## How to calculate inch-foot (in.-ft.)

An inch-foot (in.-ft.) is equal to the Depth of Cut in inches x Length of Cut in feet. This measurement is used to determine chain or blade life.

For example:

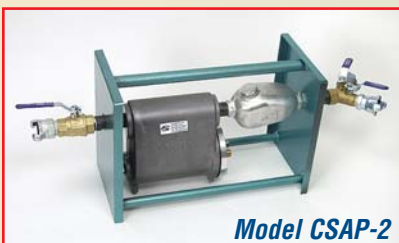
Calculate how many in.-ft. are in this doorway.

1. Determine the Depth of Cut in inches.  
For this example, it is 8 inches.
2. Determine the Length of Cut in feet.  
 $3 + 7 + 3 + 7 = 20$  feet.
3. Multiply the two numbers.  
 $8 \text{ in.} \times 20 \text{ ft.} = 160 \text{ in.-ft.}$



Note for metric users: 1cm = .3937 inches and 1 meter = 3.2808 ft.

## AirPac Extends life of pneumatic power tools see page 29 for more information



- Removes moisture and dirt from air lines; a float valve automatically ejects water and dirt
- Includes automatic oiler; prevents tools from freezing in cold environments
- Eliminates air motor downtime caused by water and dirt
- Connections for two tools, max. air flow 185 CFM



# Pneumatic Cut-off Saws - Hand-held and Walk-behind

Cut concrete, asphalt, masonry, steel and more



14" Cut-off Saw with diamond blade

## Hand-held Cut-off Saws, 14" and 18"

- Wet or dry cutting of concrete, reinforced concrete, asphalt, masonry, steel and more
- Cut up to 7" deep with no gas or engine fumes
- Low maintenance – no belts, pistons, fuel lines or carburetors
- Accept diamond or abrasive blades
- Adjustable blade guard with built-in water connection
- In-line oiler for motor lubrication
- 1" arbor size, 1/2" NPT air connection

Cut-off Saw with 12" abrasive blade

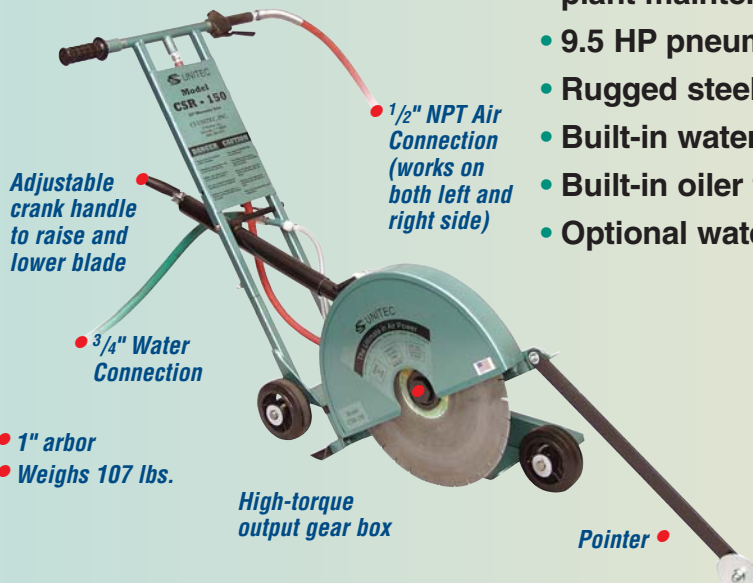


Model No.	Power	RPM (No Load)	Max. Depth of Cut	Max. Blade Capacity	CFM @ 100 PSI	Drive	Weight (lbs.)
CSH 100	5 HP	5250	4"	14	90	Direct	22
CSH 125	9.5 HP	3200	5"	14	92	Gearbox	26
CSH 150	9.5 HP	3200	7"	18	92	Gearbox	28



## Walk-behind Cut-off Saw – 20" Capacity

- Wet or dry cutting of concrete, asphalt and other materials
- Cut up to 7" deep with no gas or engine fumes
- Low maintenance – no belts, pistons, fuel lines or carburetors
- Designed for tough cutting jobs, including joint sawing, floor sawing, trenching, road repair and plant maintenance
- 9.5 HP pneumatic motor with gearbox drive
- Rugged steel construction – yet only 107 lbs.
- Built-in water connection for wet cutting
- Built-in oiler for motor lubrication
- Optional water tank kit



- 1" arbor
- Weighs 107 lbs.

High-torque output gear box

Pointer

### Model CSR 150

Power	9.5 HP
RPM (No Load)	2900
Max. Depth of Cut	7"
Max. Blade Capacity	20"
CFM @ 100 PSI	92
Drive	Gearbox
Weight	107 lbs.

# 9" Cut-off Saw with Dust Extraction



- Quick, precise cutting of concrete, masonry, block, brick, stone and more
- Adjustable cutting depth of 0" to 2 1/2"
- Accepts Diamond saw blades up to 9"

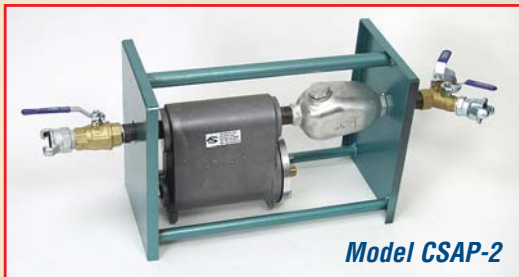


Optional carrying case  
Order No. 492.058

- Higher visibility for increased worker output and accuracy
- Dust extraction with CS 1225 vacuum makes for cleaner working conditions
- Dust exhaust guard rotates for upcut or downcut

Model A20/4	
Power (110 Volt or 220 Volt)	15 Amp
RPM (No Load)	4500
Depth of Cut	0-2 1/2" max.
Max. Blade Capacity	9"
Arbor	7/8"
Weight	15 lbs.
Saw with 9" Diamond Blade	Order Model A20/4D
Diamond Blade (9" x .095")	Order No. 255.753

## AirPac Extends life of pneumatic power tools



Model CSAP-2

- Removes water and contaminants from both portable and stationary compressed air systems to protect pneumatic tools
- Totally automatic – a float valve automatically ejects the accumulated water and dirt
- Maintenance-free – no filters or parts to replace or service

### How it Works:

- Air compressors compress air into small areas – this causes heat, which contains moisture
- As heated air travels through air lines, it cools, creating water droplets
- When this air/water mixture enters the AirPac, it travels through a baffle that traps the water and dirt and drops it into a holding area
- When enough water is accumulated, a float allows the water and dirt to be automatically ejected
- Dry air then enters the lubricator and is mixed with oil and sent to the tool

- Includes automatic 1/2 pint oiler; prevents tools from freezing in cold environments
- Two tool outlets; Chicago couplings on all connections
- Weighs 40 lbs., max. air 185 CFM
- Use Air Tool Lubricant for best results – see below for more information

## Air Tool Lubricant – Non-toxic

CS Unitec offers three types:

**ProLube-ATL:** A super-premium synthetic air tool lubricant; provides maximum lubrication, cleaning and protection for portable air tools.

**ProLube-ATL/AF (anti-freeze):** ProLube-ATL/AF blend that prevents freezing and is ideal for operating air tools in cold climate conditions.

**Air Tool Line Conditioner:** For use in underwater air tools. Displaces moisture. Developed to inhibit rust and corrosion of air motors.



### ProLube-ATL

1 gallon bottle	Case (4 bottles)
Order No. CS 7043-001	Order No. CS 7043-002

### ProLube-ATL/AF

1 gallon bottle	Case (4 bottles)
Order No. CS 7049-001	Order No. CS 7049-002

### Air Tool Line Conditioner

1 quart/liter bottle
Order No. MS 9105

# Pneumatic and Electric Nibblers

*Easily cut sheet metal and steel up to 3/8" thick*

- Pneumatic or electric power is ideal for cutting sheet metal, steel plate, weldments and double sheets, as well as exotic materials and plastics
- Two-speed gearbox (model CS-3400-P or -E)
- Heavy-duty construction
- Head can be rotated to four 90° positions (on selected models)
- Cut over 90° bends with optional die
- Maximum cutting capacity:  
Mild Steel: up to .375"  
Stainless Steel: up to .195"  
Aluminum: up to .500"
- Ideal for use in underground storage tank removal, I-beam splitting, plate cutting and more
- Lightweight construction with quick-change punch and die



*CS-3400 cuts up to 3/8" thick steel.*



Model No.	Power	CFM	Working Speed (ft./min.)	Start Hole Dia.	Min. Radius	Strokes per Minute	Max. Sheet Thickness			Weight (lbs.)
							Mild Steel	Stainless Steel	Aluminum	
<i>Electric (110 Volt)</i>										
CS-350-E	12 Amp	–	4	1.25"	.280"	650	.135"	.090"	.135"	7.5
CS-500-E	12 Amp	–	4.5	1.25"	3.125"	600	.197"	.135"	.276"	8.5
CS-700-E	17.4 Amp	–	5	2.75"	5.5"	400	.276"	.197"	.394"	26
CS-3400-E*	17.4 Amp	–	5.2	3"	16"	230 / 370	.375"	.276"	.500"	32
<i>Pneumatic</i>										
CS-350-P	1.5 HP/90 PSI	54	4	1.25"	.280"	530	.135"	.090"	.135"	10
CS-500-P	1.5 HP/90 PSI	54	4.5	1.25"	3.125"	530	.197"	.135"	.276"	10.5
CS-700-P	4 HP/90 PSI	100	5	2.75"	5.5"	340	.276"	.197"	.394"	27
CS-3400-P*	4 HP/90 PSI	100	5.2	3"	16"	210 / 350	.375"	.276"	.500"	32

\* 2-speed gearbox



# Lubricants

## ProLube™ Ideal for cutting steel, stainless steel and hard metals

Your cutting tools will work cooler, longer and more efficiently with ProLube™ Lubricants from CS Unitec.

- Improve cutting tool output and performance
- Prolong tool life by reducing friction and wear
- Unique composition provides excellent adhesion to cutting tools for maximum lubrication
- Corrosion inhibitor
- Ideal for saw blades and drill bits
- Non-toxic



**ProLube Solid**  
**CS 7020-013**  
1.6 oz. push tube  
**CS 7020-000**  
14.5 oz. push tube



**ProLube Liquid**  
Water soluble 16:1  
**CS 7010-504**  
1 gal. bottle



**ProLube Paste**  
**CS 7030-712**  
12 oz. tub

### Warranty

Products of CS Unitec, Inc. are warranted to be free from defects in material and workmanship for one year from date of purchase. This warranty does not apply to normal wear or products which have been abused, misused, modified or repaired by someone other than CS Unitec, Inc. or its Authorized Service Representatives.

If a product proves defective in material or workmanship within one year after purchase, return it to CS Unitec, Inc. or an Authorized Service Center, transportation prepaid. CS Unitec, Inc. will, at its option, repair or replace defective products free of charge.

CS Unitec, Inc.'s sole liability and your exclusive remedy under this warranty is limited to repair or replacement of the defective product. There are no other warranties expressed or implied and CS Unitec, Inc. shall not be liable for incidental, consequential or special damages, or expenses excepting only the cost or expense of repair or replacement as described above.

LUBRICANTS / WARRANTY

# Mini Diamond Drill with Water-cooled Bits for 5/32" to 3/4" Holes

**Drills perfect holes in seconds!  
For tile, natural stone and concrete.**

END 712 P is a new high-speed diamond drill for dowel, anchor and thru holes in tile, natural stone and concrete. There is no shock or hammering. It drills precise holes, even in hard ceramic "gres" tiles and granite. It is ideal for gravestones, countertops, plumbing and other masonry applications.

- Water-cooled diamond bits have long life
- Drills without shock; eliminating cracks and blow-out
- Easy bit changing with "click and go" keyless chuck
- Built-in water swivel with hose connection and valve
- Variable 0-8000 RPM, for easy starting... fast drilling
- Depth gauge for drilling blind holes for anchors, etc.
- Optional centering aids allow precise drilling and includes adapter for connecting a vacuum cleaner
- Optional water recycling vacuum (Model CS 2000) and wet/dry vacuum (CS 1500) available



END 712 P	
Power	6.3 Amp / 110 Volt
Hole Capacity	5/32" - 3/4" diameter
Load Speed	0 - 8000 RPM
Weight	5 lbs.



Wet  
Diamond Bit

### Standard Equipment:

Keyless chuck, carrying case, depth gauge, GFCI

### Kit – END 712 PC:

Includes standard equipment plus centering aid #3583B; diamond bits 1/4", 5/16" and 3/8"; slurry hose 3'; and sharpening block.

WET DIAMOND BITS					
Part No.	Dia.	Depth	Part No.	Dia.	Depth
FF-040851	5/32"	1.6"	FF-101056	3/8"	2.4"
FF-050951	3/16"	1.6"	FF-121306	1/2"	3.2"
FF-065951	1/4"	2"	FF-161306	5/8"	3.2"
FF-080951	5/16"	2"	FF-201306	3/4"	3.2"

Note: longer depth diamond bits available, special order

### Optional Accessories for END 712 P:

- 3583A Centering aid with suction cup
- 3583B Centering aid with handle
- 251.623 Water pressure tank, 3 gal. (plastic)
- CS 1500 Wet/dry vacuum, 13 gal.
- CS 2000 Water recycling vacuum, 13 gal.



Hand-held Aid



Suction Cup Aid

Specifications subject to change.

**CS UNITEC, Inc.**

22 Harbor Avenue, Norwalk, CT 06850  
Toll Free: (800) 700-5919 Tel: (203) 853-9522 Fax: (203) 853-9921  
Website: www.csunitec.com E-Mail: info@csunitec.com

# High-Speed Core Drill 3/8" to 1" Holes 50% Faster Than Hammer Drills

Using the new high-speed END 1521 PC drilling machine, you can drill holes 3/8" to 1" diameter in concrete and natural stone – 50% faster than with rotary hammers. The standard quick-change system makes the removal of the center core from the drill bit quick and easy.



The END 1521 PC offers the following advantages:

- Drilling without shock, dust and vibration
- Saves time versus rotary hammers when drilling in concrete or reinforced concrete
- Quick-change system allows fast removal of the center core
- Accurate drilling for anchors or rebar installation
- Includes centering aid and water collection

**Drill Small Diameter Holes Fast, Without Hammering!**

Accessories Included:  
3 bits (1/2", 5/8" and 3/4" dia.)  
5/8" x 11 UNC Adapter  
Centering Aid with water collection guide rings  
Carrying Case

**Ideal for drilling holes in concrete for installing rebar, anchors, etc.**

Diamond Core Bits			
Order No.	Drilling Dia.	Drilling Depth	Overall Length
EN38600	3/8"	6"	8"
EN12600	1/2"	6"	8"
EN58600	5/8"	6"	8"
EN34120	3/4"	12"	14"
EN78120	7/8"	12"	14"
EN01120	1"	12"	14"

Model END 1521 PC	
Power	13.6 AMP
Rated Voltage	110 Volt
Drilling Diameter	3/8" – 1"
Load Speed	6000 RPM
Bit Connection	Quick-Lock Connector and 5/8" x 11 UNC
Weight	8.5 lbs.

*Note: Specifications subject to change. Refer to Owner's Manual for operating instructions.*

## CS UNITEC, Inc.

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Website: [www.csunitec.com](http://www.csunitec.com) E-Mail: [info@csunitec.com](mailto:info@csunitec.com)



# Core Drill Hand-Held, Dry Holes up to 3-1/4" Diameter

CS Unitec's EHD 1300, a dry diamond drill for use in electrical and "clean" installation work, is the ideal tool to create installation holes in brick and block. This handy single-speed tool is capable of drilling accurate holes (e.g. switching and branching boxes) up to 3-1/4" diameter, even in hard materials such as sand-lime brick, brickwork and block.

The EHD 1300 operates smoothly to avoid damage to wall structures and is equipped with a mechanical slip clutch for user safety. Drill bits are easily changed without the need of a special tool. A dust exhaust attachment is available for connecting to a vacuum for dust-free drilling.

The EHD 1300 is furnished with a 5/8" x 11 UNC adapter and a metal carrying case. It is available as either a single unit or as a set which includes the drill and dust exhaust attachment. The dust exhaust can be connected directly to our professional dust extraction vacuum or to other heavy-duty industrial vacuums.



Model EHD 1300



Model EHD 1300	
Power	12 AMP
Rated Voltage	110 Volt
Maximum Drilling Diameter	3-1/4"
Load Speed	2000 RPM
Collet	5/8" x 11 UNC and 1-1/4" x 7 UNC
Weight	7 lbs.
Centering Aid	Part No. 35830000

*Note: Specifications subject to change. Refer to Owner's Manual for operating instructions.*

## CS UNITEC, Inc.

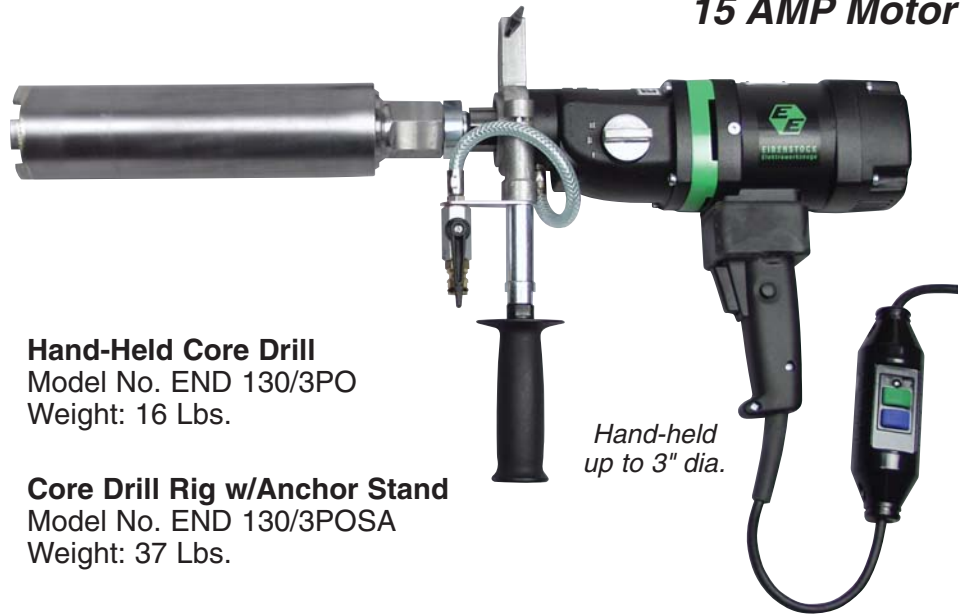
22 Harbor Avenue, Norwalk, CT 06850  
 Toll Free: (800) 700-5919 Tel: (203) 853-9522 Fax: (203) 853-9921  
 Website: [www.csunitec.com](http://www.csunitec.com) E-Mail: [info@csunitec.com](mailto:info@csunitec.com)

# Core Drill

3-speed Electric  
Hand-Held or Rig-Mounted  
Holes up to 6" Diameter  
15 AMP Motor



Rig-mounted  
up to 6" dia.



Hand-held  
up to 3" dia.

**Hand-Held Core Drill**  
Model No. END 130/3PO  
Weight: 16 Lbs.

**Core Drill Rig w/Anchor Stand**  
Model No. END 130/3POSA  
Weight: 37 Lbs.

**Core Drill Rig w/Anchor Stand and Vacuum Pump**  
Model No. END 130/3POSV  
Weight: 53 Lbs

The Eibenstock END 130/3PO is ideal for drilling holes in floors, walls, ceilings and for all concrete anchoring systems. Fast and efficient drilling of reinforced concrete, concrete, brick, block and stone.

Model END 130/3P combines a strong all aluminum housing, compact size and powerful 15 AMP motor for high performance. Features include a 3-speed gearbox, built-in leveling bubble, safety slip clutch, water swivel, overload signal, GFCI and carrying case. Connecting threads of 5/8" UNC, 1-1/4" UNC and G1/2" are included.

Model END 130/3PO	
Power	15 AMP
Rated Voltage	110 V
Maximum Drilling Dia.	6"
Load Speeds (RPM)	600-1300-2800
Connecting Threads	5/8" x 11 UNC, 1-1/4" x 7 UNC and G1/2"
Weight	16 lbs. (motor only)
Optional Centering Aid	Part No. 35846

Specifications subject to change.



## CS UNITEC, Inc.

22 Harbor Avenue, Norwalk, CT 06850  
Toll Free: (800) 700-5919 Tel: (203) 853-9522 Fax: (203) 853-9921  
Website: www.csunitec.com E-Mail: info@csunitec.com

# Core Drill

## 2-Speed, Wet and Dry Hand-Held or Rig-Mounted Holes up to 4" Diameter

Model ETN 2001 P is a heavy-duty Wet and Dry Diamond Core Drill with high torque output. This unit offers the unique advantage of wet and dry core drilling with the same machine. Two-speed gearbox provides optimum RPM for hole sizes up to 4" diameter. Electronic torque limitation and speed control guarantee constant RPM, even under load. Standard features include a slip clutch, thermal overload switch, built-in water swivel collar, GFCI and metal carrying case. 5/8" and 1-1/4" connecting threads are standard.



Model ETN 2001 P

### 2-Speed Hand-Held Core Drill

Model No. ETN 2001 P  
Weight: 15 lbs.

### Core Drill Rig with Anchor Stand

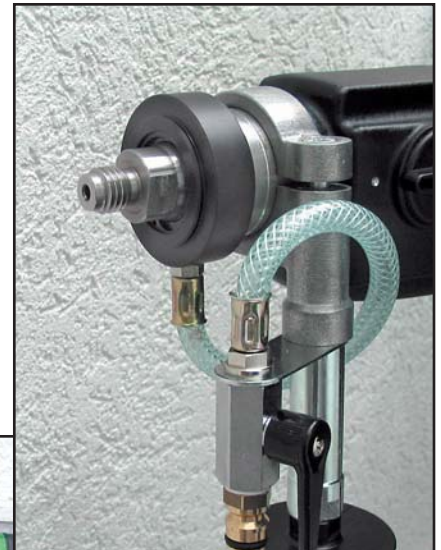
Model No. ETN 2001 PSA  
Weight: 36 lbs.

### Core Drill Rig with Anchor Stand and Vacuum Pump

Model No. ETN 2001 PSV  
Weight: 44 lbs.

### Special Feature:

The water swivel collar is easily removed to replace the seals. This eliminates downtime and costly repairs.



Model ETN 2001 P  
with Anchor Stand

Model ETN 2001 P	
Power	15 AMP
Rated Voltage	110 Volt
Maximum Drilling Diameter	4"
Load Speeds	0-800 RPM 0-1570 RPM
Collet	5/8" x 11 UNC and 1-1/4" x 7 UNC
Weight	15 lbs.

Note: Specifications subject to change. Refer to Owner's Manual for operating instructions.

## CS UNITEC, Inc.

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Website: www.csunitec.com E-Mail: info@csunitec.com





**Model ETN 152/3 PSA**  
Core Drill with Combination  
Vacuum / Anchor Angle Stand

**Holes Up To 6" Diameter  
Easily Connects To A  
Vacuum For Dust Collection**



**Model ETN 152/3 P**  
Hand-Held Core Drill



Built-In Water  
Supply / Dust  
Extraction Port

Model ETN 152/ 3P is a versatile Wet or Dry Diamond Core Drill with a **Water Swivel and Dust Extraction Port** built directly into the spindle. It easily connects to a vacuum for dust extraction. The drill stand **Quick Change** mount allows the operator to switch from hand-held to stand mounted drilling quickly. The drill stand is adjustable up to 45°. Core drill includes drill bit connections 5/8" x 11 UNC and 1-1/4" x 7 UNC.

Specifications	ETN 152/ 3P
Power:	17 AMP / 110 Volt (1900 W)
Maximum Drilling Diameter:	6"
Load Speeds (RPM):	0-550, 0-1250, 0-2700
Connecting Thread:	1-1/4" x 7 UNC
Connecting Adapter:	5/8" x 11 UNC
Carrying Case Included:	YES
Weight (drill only):	15 lbs.
<b>ETN 152/ 3PSA Anchor Rig</b>	Includes Drill Stand. Wgt. 40 lbs.
<b>ETN 152/ 3PSV Anchor &amp; Vacuum Rig</b>	Includes Drill Stand and Vacuum Pump No. 253.511. Wgt. 48 lbs.

**CS UNITEC, Inc.**

22 Harbor Avenue, Norwalk, CT 06850  
Tel: (203) 853-9522, Toll Free: (800) 700-5919, Fax: (203) 853-9921  
Website: www.csunitec.com E-Mail: Info@csunitec.com

**Most Powerful, Lightweight**  
**Core Drill Rig InThe Industry**

Powerful 18 AMP motor capable of drilling up to 6" holes in reinforced concrete, concrete, brick, block and stone.

- 6" Diameter Capacity
- 18 AMP, 4HP Motor
- Weighs Only 34 lbs.
- Single Speed 700 RPM
- Built-in Water Swivel
- Motor Overload Protection

<b>Model DBE 160</b>	
Power	18 AMP
Rated Voltage	110 Volt
Maximum Drilling Diameter	6"
No Load Speed	700 RPM
Connecting Threads	1-1/4" x 7 UNC
Weight	34 lbs.



**Model DBE 160**

***CS UNITEC, Inc.***

**Core Drill**  
**3-speed Electric**  
**Holes up to 14" Diameter**  
**High-torque, 24.5 AMP Motor**

**EBM 350/3P Core Drill**

The Eibenstock EBM 350/3P Core Drill combines a powerful 24.5 AMP motor with a rugged three-speed gearbox to drill holes up to 14" diameter. Ideal for heavy-duty drilling in concrete, reinforced concrete, asphalt and natural stone. No other drill in its class is so light and powerful.

**Features and Benefits:**

- Internal oil pump lubricates the gearbox and shaft for longer life
- High-torque 3-speed gearbox for optimal drilling speeds: 230-500-1030 RPM
- Soft start and overload protection
- Mechanical slip clutch protects in case of jamming
- 43" tall drill stand with Quick Lock Motor Mount, positive locking knob and wheels
- Hand-crank can be mounted on either side of the drill stand. The stand angle is adjustable up to 45 degrees

**Core Drill w/Anchor Stand**

Model No. EBM 350/3PSA  
 Weight: 79 lbs.

**Core Drill w/Combo Stand & Vacuum Pump**

Model No. EBM 350/3PSV  
 Weight: 95 lbs.



Available with

**ANCHOR STAND**  
 (shown above)

or

**COMBO ANCHOR/VACUUM STAND**

<b>Model EBM 350/3P</b>	
Power	24.5 AMP
Rated Voltage	110 V
Maximum Drilling Dia.	14"
Load Speeds (RPM)	230-500-1030
Connecting Threads	1-1/4" x 7 UNC, 5/8" x 11 UNC
Optional Adapter (5/8" UNC)	Part No. 35114000
Weight	28 lbs. (motor only)

*Specifications subject to change.*

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## 6" Electric Core Drill 3-Speed, 17.6 AMP Motor Hand-held or Rig-mounted

**Powerful Core Drilling Machine – fast and efficient for drilling reinforced concrete, concrete, brick, block and stone.**

Ideal for drilling holes in floors, walls and ceilings and for all concrete anchoring systems. Drill motor weighs only 18 lbs. Rig with motor weighs only 49 lbs.

### Drilling Capacity:

- Hand-held Drilling 1/2" – 3" dia.
  - Rig-mounted Drilling 1/2" – 6" dia.\*
- \*Do not use core bits larger than 6" diameter*  
*\*Use gear 1 in a drill stand only.*

Model 2 1320 0010	
Power	17.6 AMP
Rated Voltage	110 Volt
Drilling Diameter	Hand-held: 1/2" – 3"
	Rig-mounted: 1/2" – 6"
3 Speeds (RPM)	450, 1080, 2100
Bit Connection	1-1/4"x7 UNC, 5/8"x11 UNC, G 1/2"
Weight	Motor: 18 lbs.
	Motor and Rig: 49 lbs.

### Standard Equipment:

- Safety Slip Clutch
- 3-Speed Mechanical Gear Box with heat-treated gears
- Built-in Water Swivel
- Double-insulated Motor
- In-line Ground Fault Interrupter
- Thermal Overload Switch
- 1-1/4" x 7 UNC Spindle
- 5/8" x 11 UNC Adapter
- 360° Rotatable Side Handle
- Centering Aid P/N 2 1315 6800
- Metal Carrying Case P/N 5 1212 9000

### Optional Accessories:

- Water Collection Ring Kit P/N 255 037
- Anchor Stand P/N BST 162V
- Vacuum Pump, 110V P/N 253.511
- Portable Water Tank, 3.5 gallons P/N 251.623
- Unicore Wet Diamond Core Bits



**2 1320 0010 SA  
Drill & Anchor Stand**

**2 1320 0010 SV  
Drill, Stand & Vacuum Pump**



**2 1320 0010 Drill**

*Note: Specifications subject to change. Refer to Owner's Manual for operating instructions.*

## CS UNITEC, Inc.

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Toll Free: (800) 700-5919 Tel: (203) 853-9522 Fax: (203) 853-9921  
Website: www.csunitec.com E-Mail: info@csunitec.com

## 6" Air Core Drills 3-Speed, 2.1 or 3.8 HP Motor Hand-held or Rig-mounted

**Ideal for drilling holes in walls, floors, ceilings, refractory brick and for all concrete anchoring systems. Two models, 2.1 or 3.8 HP.**

### Drilling Capacity:

- Hand-held Drilling 1/2" – 3" dia.
  - Rig-mounted Drilling 1/2" – 6" dia.\*
- \*Do not use core bits larger than 6" diameter  
Use gear 1 in a drill stand only.*



**3-Speed Hand-held  
Air Core Drill**

<b>Model 2 1333 0010 – 2.1 HP (1.6 kW)</b>	
3 Speeds (RPM)	400, 900, 1600
Air Motor	2.1 HP (1.6 kW)
Air Consumption	77 CFM
Air Pressure	90 PSI
Air Connection	3/4" NPT
Bit Connection	1-1/4"x7 UNC, 5/8"x11 UNC, G 1/2"
Weight	18 lbs.

*Drill & Anchor Stand – 2 1333 0010 SA (49 lbs.)  
Drill, Stand & Vacuum Pump – 2 1333 0010 SV (51 lbs.)*

<b>Model 2 1335 0010 – 3.8 HP (2.8 kW)</b>	
3 Speeds (RPM)	300, 700, 1350
Air Motor	3.8 HP (2.8 kW)
Air Consumption	123 CFM
Air Pressure	90 PSI
Air Connection	3/4" NPT
Bit Connection	1-1/4"x7 UNC, 5/8"x11 UNC, G 1/2"
Weight	21 lbs.

*Drill & Anchor Stand – 2 1335 0010 SA (52 lbs.)  
Drill, Stand & Vacuum Pump – 2 1335 0010 SV (54 lbs.)*



**Rig-mounted Air Drill  
Only 52 lbs.**

**(Hand crank can be mounted on either side)**

### Standard Equipment:

- Safety Slip Clutch
- 3-Speed Mechanical Gear Box with heat-treated gears
- Built-in Water Swivel
- 1-1/4" x 7 UNC Spindle
- 5/8" x 11 UNC Adapter
- 360° Rotatable Side Handle
- Centering Aid P/N 2 1315 6800

### Optional Accessories:

- Metal Carrying Case P/N 5 1212 9000
- Anchor Stand P/N BST 162V
- Vacuum Pump, Pneumatic P/N 253.542
- Portable Water Tank, 3.5 gallons P/N 251.623
- Unicore Wet Diamond Core Bits

*Note: Specifications subject to change. Refer to Owner's Manual for operating instructions.*

## CS UNITEC, Inc.

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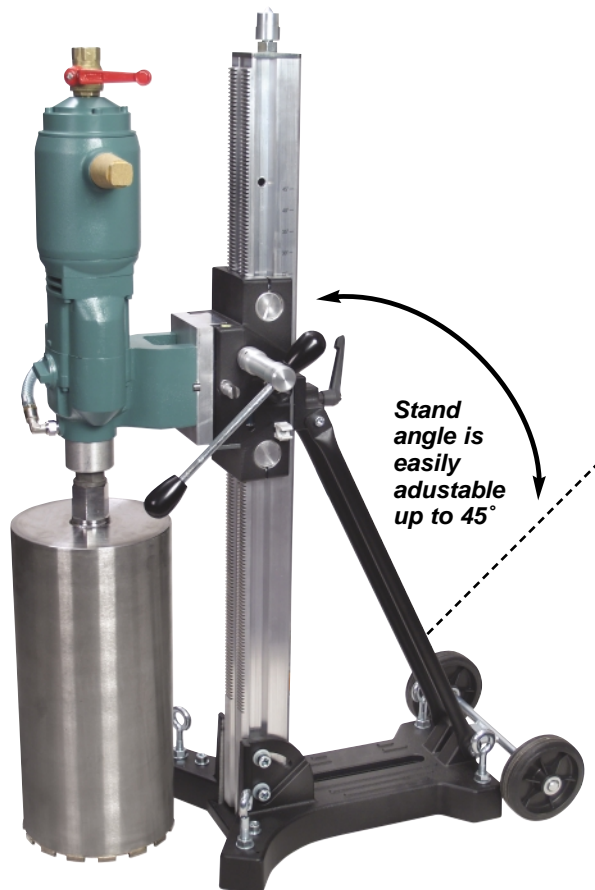
# 12" Air Core Drill 3-Speed, 3.8 HP Motor

## Model 2 1328 0050 SA

The 2 1328 0050 Core Drill combines a powerful 3.8 HP motor with a rugged 3-speed gearbox to drill holes from 1/2" to 12" diameter. Ideal for heavy-duty drilling in concrete, reinforced concrete, asphalt, natural stone and refractory. No other drill in its class is so light and powerful.

### Features and Benefits:

- High-torque 3-speed gearbox for optimal drilling speeds: 300-700-1350 RPM
- 1" to 12" bit capacity
- Heat-treated gears for long life
- Mechanical Slip Clutch protects in case of jamming
- 43" tall drill stand with Quick Lock Motor Mount, positive locking knob and wheels
- Hand-crank can be mounted on either side of the drill stand. The stand angle is adjustable up to 45°
- Built-in Water Swivel
- 1-1/4" x 7 UNC Spindle
- 5/8" x 11 UNC Adapter (optional)



Stand angle is easily adjustable up to 45°

**Rig-mounted Air Drill with Anchor Stand Only 66 lbs.**

Model 2 1328 0050 SA	
3 Speeds (RPM)	300, 700, 1350
Air Motor	3.8 HP (2.8 kW)
Air Consumption	123 CFM
Air Pressure	90 PSI
Air Connection	3/4" NPT
Bit Connection	1-1/4"x7 UNC, 5/8"x11 UNC*, G 1/2"
Weight	66 lbs. (includes motor and drill stand)

\* **Optional**

*Note: Specifications subject to change. Refer to Owner's Manual for operating instructions.*

### Core Drill with Anchor Stand

Model No. 2 1328 0050 SA

Weight: 66 lbs.

### Core Drill with Combo Stand & Pneumatic Vacuum Pump

Model No. 2 1328 0050 SV

Weight: 72 lbs.



**Air Core Drill Motor  
P/N 2 1328 0050**

## CS UNITEC, Inc.

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Toll Free: (800) 700-5919 Tel: (203) 853-9522 Fax: (203) 853-9921

Website: www.csunitec.com E-Mail: info@csunitec.com



## 6" Hydraulic Core Drill 3-Speed, 3.6 HP Motor Hand-held or Rig-mounted

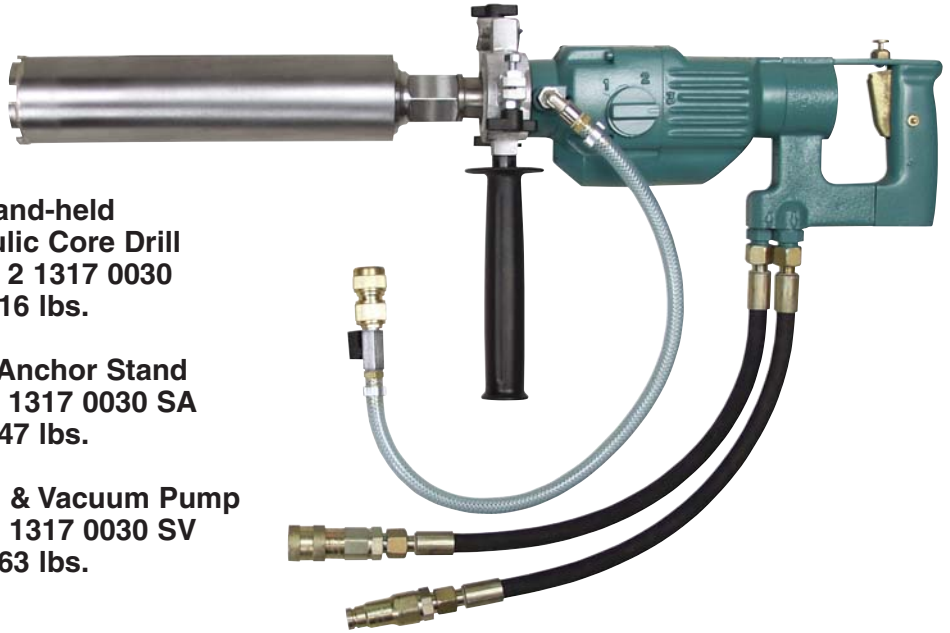
Model 2 1317 0030 is a heavy-duty hydraulic core drill. This wet diamond drill delivers outstanding performance in concrete, reinforced concrete, etc. The oil flow control is self regulating. The required volume is 6 GPM. Flow above 6 GPM, up to 13 GPM, is bypassed back to the tank. The drill features a 3-speed gear box, mechanical slip clutch, 360° rotatable side handle and centering aid.



**Hand-held  
Hydraulic Core Drill  
Model 2 1317 0030  
16 lbs.**

**Drill & Anchor Stand  
Model 2 1317 0030 SA  
47 lbs.**

**Drill, Stand & Vacuum Pump  
Model 2 1317 0030 SV  
63 lbs.**



Model 2 1317 0030	
Power	3.6 HP (2.8 kW)
3 Speeds (RPM)	380, 900, 1800
Connecting Threads	1-1/4"x7 UNC Male
	5/8"x11 UNC Male
	G 1/2" Female
Weight	16 lbs.
Oil Pressure	2000 PSI
Oil Flow	6 GPM (22 LPM)
Flow Control Valve	Up to 13 GPM allowed
Hose Diameter	1/2" ID Hose with 3/8" FF (HTMA) Couplings

**Ideal for use with our  
Model No. LPU-18 Power Unit for  
portable hydraulic power tools**

### Drilling Capacity:

- Hand-held Drilling 1/2" – 3" dia.
  - Rig-mounted Drilling 1/2" – 6" dia.\*
- \*Do not use core bits larger than 6" diameter  
\*Use gear 1 in a drill stand only.*

### Standard Equipment:

- Heat-treated Gears
- Safety Friction Slip Clutch
- 360° Rotatable Handle
- Centering Aid P/N 2 1315 6800
- Metal Carrying Case P/N 5 1212 9000

### Optional Accessories:

- Anchor/Vacuum Stand P/N BST 162V
- Vacuum Pump, 110 V P/N 253.511
- Portable Water Tank  
3.5 gallons P/N 251.623
- Unicore Wet Diamond Core Bits

*Note: Specifications subject to change. Refer to Owner's Manual for operating instructions.*

## CS UNITEC, Inc.

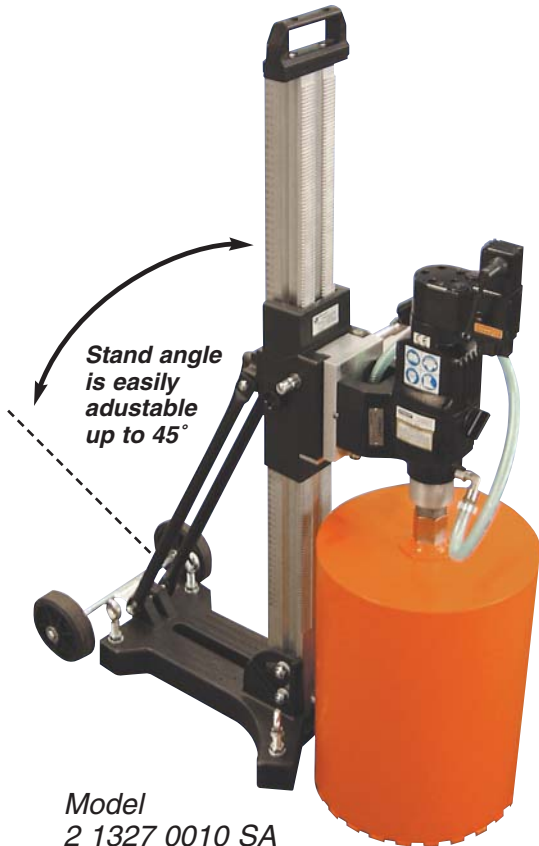
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Website: www.csunitec.com E-Mail: info@csunitec.com

# 12" Hydraulic Core Drill 3-Speed, 4.2 HP Motor

**Hydraulic core drill rig with self-regulating oil flow control, ideal for heavy-duty core drilling**

## Model 2 1327 0010 SA

- Powerful 4.2 HP motor and heat-treated gears
- Drill holes up to 12" diameter
- Rugged 3-speed gearbox with mechanical slip clutch
- Ideal for heavy-duty wet drilling in concrete, reinforced concrete, asphalt and natural stone
- Self-regulating oil flow control – required volume of 6 GPM; flow up to 13 GPM is automatically bypassed back to the tank



Model 2 1327 0010 SA shown with BST 300 anchor stand. Only 69 lbs.

*Optional anchor/vacuum stand (P/N BST 300V) allows for drilling on some concrete floors without an anchor hole.*



### Accessories:

- Anchor Stand – P/N BST 300
- Vacuum Anchor Stand – P/N BST 300V
- Vacuum Pump, 110 Volt – P/N 253.511
- Portable Water Tank, 3.5 gallons – P/N 251.623
- Unicore Wet Diamond Core Bits

**Ideal for use with our Model No. LPU-18 Power Unit for portable hydraulic power tools**

Model 2 1327 0010 SA	
Power	4.2 HP (3.1 kW)
3 Speeds (RPM)	380, 900, 1800
Connecting Threads	1-1/4" UNC Male / 1/2" Female (5/8"- 11 Optional)
Weight	69 lbs. (with anchor stand)
Oil Pressure	2000 PSI
Oil Flow with Control Valve	6 GPM (22 LPM), up to 13 GPM Allowed
Hose Diameter	1/2" ID Hose with 3/8" FF (HTMA) Couplings
Water Connection	3/4" Gardena System (included)
Drill Motor with Vacuum Stand	Order Model 2 1327 0010 SV (includes P/N 253.511)

*Note: Specifications subject to change. Refer to Owner's Manual for operating instructions.*

## CS UNITEC, Inc.

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# CS UNITEC

## Core Drill Stands

CS Unitec Core Drill Stands are lightweight, yet robust. They cover a wide range of core drilling applications up to 14" diameter. Most drill stands are adjustable up to 45° for angle drilling. Stands are available as anchor base or with vacuum base to handle all types of applications. We offer a variety of mounting options including 53mm, 60mm, and mounting brackets with screws.

### Optional Equipment:

Electric Vacuum Pump	253.511
Pneumatic Vacuum Pump	253.542
Portable Water Tank	251.623
Water Collection Kit (3/4"-6" dia.) BST 162 V	3587A
Water Collection Kit (3/4"-10" dia.) BST 300 and BST 300 V	35879
53 mm Motor Mount Adapter (reduces 60mm to 53 mm)	35820000

**BST 80/60  
(Anchor)**



**BST 85 V  
(Anchor/Vacuum)**



**BST 103/60 V  
(Anchor/Vacuum)**



**BST 162 V  
(Anchor/Vacuum)**



**BST 300  
(Anchor)**



**BST 300 V  
(Anchor/Vacuum)**



Specifications	BST 80/60	BST 85 V	BST 103/60 V	BST 162 V	BST 300	BST 300 V
Maximum Drilling Diameter	6"	4"	6"	6"	14"	14"
Height	33.5"	27"	30"	40"	40"	40"
Motor Mount	60mm *	53 mm	60mm *	60mm *	Universal with 4 screws	Universal with 4 screws
Drilling Angle	90° fixed	90°- 45°	90°- 45°	90°- 45°	90°- 45°	90°- 45°
Weight	16.5 lbs.	14.5 lbs.	21 lbs.	33 lbs.	41 lbs.	45 lbs.
Base Diameter L x W	9" x 6-3/4"	9-1/2" x 6-3/4"	15-1/2" x 9"	18-1/2" x 11"	17-3/4" x 13"	20-1/2" x 13"
Anchor or Vacuum Base	Anchor	Combination	Combination	Combination	Anchor	Combination

\* Optional Adapter for 53 mm P/N35820000

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# UNITEC

**ELECTRIC • PNEUMATIC • HYDRAULIC**



**Hole Cutting  
Twist Drilling  
Tapping  
Reaming  
Countersinking**



**Magnetic Drills  
Annular Cutters  
Hand-held Drills  
Drive Units  
Nut Runners  
Hammer Drills  
Beveling Machines**

## Fast, accurate hole cutting on the job site or in the shop!

CS Unitec's portable magnetic drills are ideal for drilling structural steel and virtually any metal. We offer the most compact and powerful series of portable magnetic drills for holes up to 5" diameter. All CS Unitec drills are heavy-duty for use in construction and industry. Our complete product line includes electric, pneumatic and hydraulic. They are available for prompt delivery.

CS Unitec is the industry leader in:

- Power-to-weight ratios
- Strongest clamping force high-density (HD) dual-coil magnets
- Magnetic drills for tapping
- Annular Cutters: TiAIN, HSS, cobalt steel, & carbide-tipped

We offer:

- Variable-speed, multiple-gear models
- Electric, pneumatic and hydraulic power
- Reversible motors for tapping and machining
- Swivel base stand for hard-to-reach areas

### Special Features

The magnetic force of your magnet depends on a number of factors:

- Thickness of material being drilled
- Coatings or paint layers on material
- Chips, dirt or grease between the magnet and the material



**EXTRA SAFETY**



The **SENSORTEC System** measures whether the magnet has sufficient adhesive force on the material. An LED indicator on the switch panel warns you of insufficient magnetic force (**Red Light**) or if the correct force is present (**Green Light**).



High-density (HD) dual-coil magnets are wound in two circles to increase the surface area and density of the magnetic field. The higher density increases the magnetic force by over 100% as compared to a single rectangular coil commonly used in electromagnetic drills.



**LONGER SERVICE LIFE**

**TEMPTEC Magnet**

**TEMPTEC Electromagnets** ensure that the magnet does not overheat. When the magnet is switched on for long periods of time, the coils could overheat or even burn out. The **TEMPTEC** feature ensures that the power of the magnets is reduced when the drill motor is not active. Therefore, it won't build up heat.



Keyless arbor allows easy, no-tools changeover of Annular Cutters. No more searching for allen keys or set screws – just twist and lock. Included on ECO-50, ECO-80 and ECO-100 series drills.

**ARMOR-PLATED™ TiAIN Cutters** are ideal for all drilling applications. A high surface hardness and greater lubricity allow drilling at high operating temperatures with more power and speed.





## Special Features



Many drills are offered with forward and reverse capabilities, allowing drilling and tapping with one unit.

High-torque motors are double insulated to increase operator safety.



Variable-speed dial on some models lets the operator adjust speed to match cutter diameter to correct RPM. This provides increased tool life and reduces cutter breakage.

Optional Power Assist provides delayed torque transfer, decreasing the load on both the cutter and machine. This allows the machine to maintain maximum RPM under full load. See page 21 for more information.



**ATEX Approved**

Some Pneumatic tools are ATEX Approved for use in hazardous and potentially explosive atmospheres.

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## Warranty

Products of CS Unitec, Inc. are warranted to be free from defects in material and workmanship for one year from date of purchase. This warranty does not apply to normal wear or products which have been abused, misused, modified or repaired by someone other than CS Unitec, Inc. or its Authorized Service Representatives.

If a product proves defective in material or workmanship within one year after purchase, return it to CS Unitec, Inc. or an Authorized Service Center, transportation prepaid. CS Unitec, Inc. will, at its option, repair or replace defective products free of charge.

CS Unitec, Inc.'s sole liability and your exclusive remedy under this warranty is limited to repair or replacement of the defective product. There are no other warranties expressed or implied and CS Unitec, Inc. shall not be liable for incidental, consequential or special damages, or expenses excepting only the cost or expense of repair or replacement as described above.





# ECO-30/3P



## Ultra-compact and lightweight with power assist



Model ECO-30/3P

- Compact height of 12<sup>1</sup>/<sub>4</sub>"
- Lightweight at 22 lbs.
- Patented power-assist mechanism reduces feed pressure to help prevent motor burn-out and cutter breakage
- Strong 7.5 Amp double-insulated motor
- Powerful high-density dual-coil magnet has superior holding strength of 3300 lbs.
- Drills up to 1<sup>1</sup>/<sub>8</sub>" diameter holes with Annular Cutters
- One-year warranty

Patented power-assist mechanism reduces load on motor and cutter. Standard with ECO-30/3P. See page 21.



**TEMPTEC Magnet**  
See page 2



Standard equipment includes auto lubrication, carrying case, chip guard, safety chain, carabin hook, gloves, safety glasses, ear protection and allen keys.

Model ECO-30/3P has an integrated auto-lubrication system.



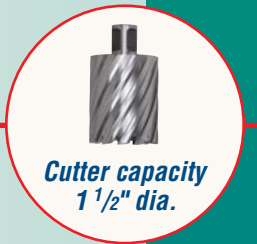
Cutter capacity up to 1<sup>1</sup>/<sub>8</sub>" dia., stroke: 2<sup>3</sup>/<sub>4</sub>"

See pages 18-24 for Annular Cutters and Accessories.

### Model ECO-30/3P

Motor Power	7.5 Amp / 110 Volt*
Weight	22 lbs.
Hole Capacity	1 1/8"
Speed	450 RPM
Magnet Base Size	6 3/8" L x 3 1/4" W
Dimensions	12 1/4" H x 9 3/8" L x 6 3/8" W
Magnetic Force (1" Plate)	3300 lbs.
Arbor Bore	3/4"
Automatic Lubrication	Included

\* 220 Volt / 50 Hz also available



## Heavy-duty compact hole drilling machine



Model MDM-40

- Powerful hole cutting machine for steel fabricators, bridge contractors and plant maintenance
- Compact height of 13" allows drilling in tight spaces
- Lightweight and portable at only 24 lbs. for use on the job site or in the shop
- Strong 9.25 Amp double-insulated motor
- One-piece motor mount and arbor support for added strength and stability
- High-density dual-coil magnet has holding strength of 2640 lbs.
- Drills up to 1 1/2" diameter holes with Annular Cutters
- One-year warranty



All CS Unitec high-density dual-coil magnets are ground, not cast, and are wound into two circles to increase the surface area and density of the magnetic field.



Standard equipment includes auto lubrication, carrying case, safety strap, carabin hook, gloves, safety glasses, ear protection and allen keys.



Cutter capacity up to 1 1/2" dia. stroke: 4 3/8"

See pages 18-24 for Annular Cutters and Accessories.

### Model MDM-40

Motor Power	9.25 Amp / 110 Volt
Weight	24 lbs.
Hole Capacity	1 1/2" dia.
No Load Speed	440 RPM
Magnet Base Size	6 1/2" L x 3 1/4" W
Dimensions	13" H x 9 1/2" L x 7" W
Magnetic Force (1" plate)	2640 lbs.
Arbor Bore	3/4"
Automatic Lubrication	Included

\* 220 Volt / 50 Hz also available



Cutter capacity  
1 1/4" dia.

# ECO-32 and ECO-32AK



## Best power-to-weight performance in the industry



Model ECO-32

- Lightweight and portable at only 24 lbs.
  - Compact height of 14 1/4" for drilling in tight spaces
  - Strong 8.2 Amp double-insulated motor
  - High-density dual-coil magnet has holding strength of 3080 lbs.
  - Drills up to 1 1/4" diameter holes with Annular Cutters; up to 1/2" with twist drills
  - Optional Power Assist to maintain maximum RPM under full load (Part No. 020.0330)
- See page 21 for more information.

**TEMPTEC**  
Magnet

**SENSORTEC**  
System

See page 2



7 1/2" stroke



Model ECO-32AK has an automatic cooling/lubrication system built into the arbor.



Standard equipment includes carrying case, safety chain, carabin hook and allen keys.

Includes one-year warranty

With a 1/2" chuck (Part No. IBK-17), these models easily convert to standard drill presses with a 7 1/2" stroke for conventional twist drills.

### Model ECO-32 and ECO-32AK

Motor Power	8.2 Amp / 110 Volt*
Weight	24 lbs.
Hole Capacity	1 1/4" dia.
Twist Drill Capacity	1/2" dia.
Speed	450 RPM
Magnet Base Size	6 5/16" L x 3 1/4" W
Dimensions	14 1/4" H x 9 1/2" L x 4 3/8" W
Magnetic Force (1" plate)	3080 lbs.
Arbor Bore	3/4"
Manual Lubrication	Order Model ECO-32
Automatic Lubrication	Order Model ECO-32AK

\* 220 Volt / 50 Hz also available \*\* Power Assist Part No. 020.0330



Cutter capacity up to 1 1/4" dia., stroke: 5 3/4"

Twist drill capacity up to 1/2" dia., stroke: 7 1/2"

See pages 18-24 for Annular Cutters and Accessories.



1-800-700-5919

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# ECO-32T and ECO-32TAK



## Reversible motor for drilling and tapping applications



Model ECO-32T

- Strong 9.5 Amp double-insulated reversible motor
- Stepless variable-speed control, 100-450 RPM
- Compact height of 14<sup>1</sup>/<sub>4</sub>" allows drilling in tight spaces
- Lightweight and portable at only 24 lbs.
- Best power-to-weight ratio in the industry
- HD dual-coil magnet has holding strength of 3080 lbs.
- Drills up to 1<sup>1</sup>/<sub>4</sub>" diameter holes with Annular Cutters and taps up to <sup>3</sup>/<sub>4</sub>"
- Optional Power Assist to maintain maximum RPM under full load (*Part No. 020.0330*)

See page 21 for more information.



With a <sup>1</sup>/<sub>2</sub>" chuck (*Part No. IBK-17*), these models easily convert to standard drill presses with a 7<sup>1</sup>/<sub>2</sub>" stroke for conventional twist drills.



Standard equipment includes carrying case, tap collet set, safety chain, carabin hook and allen keys.



Tap collet set included

Includes one-year warranty



Model ECO-32TAK has an automatic cooling/lubrication system built into the arbor.



### Model ECO-32T and ECO-32TAK

Motor Power	9.5 Amp / 110 Volt*
Weight	24 lbs.
Hole Capacity	1 <sup>1</sup> / <sub>4</sub> " dia.
Twist Drill Capacity	<sup>1</sup> / <sub>2</sub> " dia.
Tapping Capacity	<sup>3</sup> / <sub>16</sub> "- <sup>3</sup> / <sub>4</sub> " dia.
Speeds	100-450 RPM
Magnet Base Size	6 <sup>5</sup> / <sub>16</sub> " L x 3 <sup>1</sup> / <sub>4</sub> " W
Dimensions	14 <sup>1</sup> / <sub>4</sub> " H x 9 <sup>1</sup> / <sub>2</sub> " L x 4 <sup>3</sup> / <sub>8</sub> " W
Magnetic Force (1" plate)	3080 lbs.
Arbor Bore	<sup>3</sup> / <sub>4</sub> "
Manual Lubrication	Order Model ECO-32T
Automatic Lubrication	Order Model ECO-32TAK

\* 220 Volt / 50 Hz also available \*\* Power Assist Part No. 020.0330



Cutter capacity up to 1<sup>1</sup>/<sub>4</sub>" dia., stroke: 5<sup>3</sup>/<sub>4</sub>"

Twist drill capacity up to <sup>1</sup>/<sub>2</sub>" dia., stroke: 7<sup>1</sup>/<sub>2</sub>"

Tapping capacity up to <sup>3</sup>/<sub>4</sub>" dia.

See pages 18-24 for Annular Cutters and Accessories.



# ECO-50 and ECO-50AK



## Lightweight, two-speed high-performance drill



- Drills up to 2" diameter holes with Annular Cutters
- Lightweight and portable at 29 lbs.
- Strong 10.5 Amp motor and two-speed gearbox
- HD dual-coil magnet has holding strength of 3750 lbs.
- Easy "twist and lock" keyless arbor for cutters
- Compact height of 16 1/2" allows drilling in small spaces
- With a 3/4" chuck (Part No. IBK-22), these models easily convert to standard drill presses with a 5" stroke for up to 7/8" dia. twist drills
- Optional Power Assist to maintain maximum RPM under full load (*Part No. 020.0330*)

See page 21 for more information.

**TEMPTEC Magnet**

**SENORTEC System**

See page 2

*Model ECO-50AK has an automatic cooling/lubrication system built into the arbor.*



*Model ECO-50 with keyless chuck cutter holder*

*Standard equipment includes Auto Chuck cutter holder, carrying case, safety chain, carabin hook and allen keys.*

**Includes one-year warranty**



*With a 3/4" chuck (Part No. IBK-22) or MT2, these models easily convert to standard drill presses with a 5" stroke for conventional twist drills.*



*Cutter capacity up to 2" dia., stroke: 6"*  
*Twist drill capacity up to 7/8" dia., stroke: 5"*

**See pages 18-24 for Annular Cutters and Accessories.**

### Model ECO-50 and ECO-50AK

Motor Power	10.5 Amp / 110 Volt*
Weight	29 lbs.
Hole Capacity	2" dia.
Twist Drill Capacity	7/8" dia.
Speeds	Gear 1: 250, Gear 2: 450 RPM
Magnet Base Size	6 1/2" L x 3 1/2" W
Dimensions	16 1/2" H x 9" L x 6 3/8" W
Magnetic Force (1" plate)	3750 lbs.
Arbor Bore	3/4"
Manual Lubrication	Order Model ECO-50
Automatic Lubrication	Order Model ECO-50AK

\* 220 Volt / 50 Hz also available \*\* Power Assist Part No. 020.0330

# ECO-50T and ECO-50TAK



## Reversible motor for drilling and tapping applications



- Variable-speed control in two gears
- Ideal for drilling, tapping and countersinking
- Compact height of 16<sup>1</sup>/<sub>2</sub>"
- Lightweight and portable at 29 lbs.
- Strong 10.5 Amp reversible motor
- HD dual-coil magnet has holding strength of 3750 lbs.
- Easy "twist and lock" keyless arbor
- Drills up to 2" dia. holes with Annular Cutters
- Optional Power Assist to maintain maximum RPM under full load (*Part No. 020.0330*)

See page 21 for more information.



Model ECO-50TAK has an automatic cooling/lubrication system built into the arbor.

**TEMPTEC Magnet**

**SENORTEC System**

See page 2

With a 3/4" chuck (*Part No. IBK-22*) or MT2, these models easily convert to standard drill presses with a 5" stroke for conventional twist drills.



Model ECO-50T with keyless chuck cutter holder



Standard equipment includes carrying case, tap collet set, safety chain, carabin hook, Auto Chuck cutter holder and allen keys.

Includes one-year warranty



Tap collet set included



Optional quick-change tapping chuck with MT2 connection (*Model GSW.222*) has flexible collet to fit taps 5/16" to 5/8".



### Model ECO-50T and ECO-50TAK

Motor Power	10.5 Amp / 110 Volt*
Weight	29 lbs.
Hole Capacity	2" dia.
Twist Drill Capacity	7/8" dia.
Tapping Capacity	3/16"-15/16" dia.
Speeds	100-250 and 180-580 RPM
Magnet Base Size	7" L x 3 1/2" W
Dimensions	16 1/2" H x 9" L x 6 3/8" W
Magnetic Force (1" plate)	3750 lbs.
Arbor Bore	3/4"
Manual Lubrication	Order Model ECO-50T
Automatic Lubrication	Order Model ECO-50TAK

\* 220 Volt / 50 Hz also available \*\* Power Assist Part No. 020.0330



Cutter capacity up to 2" dia.

Twist drill capacity up to 7/8" dia.

Tapping capacity up to 15/16" dia.

See pages 18-24 for Annular Cutters and Accessories.





Cutter capacity  
3 3/16" dia.

# ECO-80AK



## Powerful high-torque motor with multiple speeds



Model ECO-80AK  
with keyless chuck  
cutter holder



Standard  
equipment  
includes Auto  
Chuck cutter  
holder, carrying  
case, safety chain  
and carabin hook.

Includes  
one-year  
warranty



Cutter capacity  
up to 3 3/16" dia.,  
stroke: 10"

Twist drill capacity  
up to 1 1/4" dia.,  
stroke: 6 1/2" w/chuck

- Robust, high-torque 15 Amp motor with four-speed gearbox (100 / 175 / 245 / 385 RPM)
- Multiple speeds match cutter diameter to correct RPM to provide increased tool life and reduced cutter breakage
- High-density dual-coil magnet has holding strength of 7040 lbs.
- Drills up to 3 3/16" diameter holes with annular cutters and 1 1/4" with twist drills
- Keyless arbor for annular cutters
- Mechanical slip clutch disconnects the transmission in case of overload
- Automatic lubrication system
- MT3 output spindle has 11 1/4" max. stroke
- Optional Power Assist to maintain maximum RPM under full load (*Part No. 020.0336*)

See page 21 for more information.



TEMPTEC  
Magnet

SENSETEC  
System

See page 2



With a 3/4" chuck  
(Part No. 1BK-21)  
or MT3, this model  
easily converts  
to a standard  
drill press with a  
stroke of 6 1/2".

### Model ECO-80AK

Motor Power	15 Amp / 110 Volt*
Weight	57 lbs.
Hole Capacity	3 3/16" dia.
Twist Drill Capacity	1 1/4" dia.
Speeds	100 / 175 / 245 / 385 RPM (4 gears)
Magnet Base Size	9" L x 4 3/8" W
Dimensions	19 1/2" H x 13 3/8" L x 7 1/2" W
Magnetic Force (1" plate)	7040 lbs.
Arbor Bore	3/4" **
Automatic Lubrication	Included

\* 220 Volt / 50 Hz also available \*\* 1 1/4" also available

\*\*\* Power Assist Part No. 020.0336

See pages 18-24 for  
Annular Cutters and Accessories.

# ECO-100/3AK and ECO-100/3DAK



## Powerful reversible motor for drilling and tapping



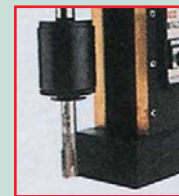
Model ECO-100/3AK with keyless chuck cutter holder

- Variable-speed, high-torque 16 Amp motor with 2 gears (40-140 and 120-480 RPM)
- Multiple speeds match cutter dia. to correct RPM to increase life
- Robust machine with 10" stroke is ideal for drilling structural steel
- High-density dual-coil magnet has holding strength of 6600 lbs.
- Drills up to 4" diameter holes with Annular Cutters
- Mechanical slip clutch disconnects the transmission in case of overload
- Variable torque control regulates power output
- Automatic lubrication system
- Optional arbor available for cutters with 1 1/4" Weldon shanks
- MT3 output spindle; 11 1/4" max. stroke
- Optional Power Assist to maintain maximum RPM under full load (Part No. 020.0336)

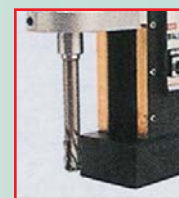
See page 21 for more information.



Twist Drilling



Tapping



Reaming

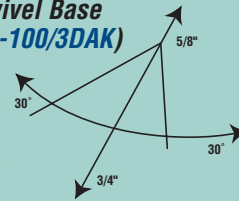


Standard equipment includes Auto Chuck cutter holder, carrying case, safety chain, carabin hook and allen keys.

Includes one-year warranty



Optional Swivel Base (Model ECO-100/3DAK) provides movement through 30° and 3/4".



TEMPTEC Magnet

SENSORTEC System

See page 2

### Model ECO-100/3AK and ECO-100/3DAK

Motor Power	16 Amp / 110 Volt*
Weight	57 lbs.
Hole Capacity	4" dia.
Twist Drill Capacity	1 1/4" dia.
Tapping Capacity	3/16"-1 1/8" dia.
Speeds	40-140 and 120-480 RPM
Magnet Base Size	9" L x 4" W
Dimensions	19 1/2" H x 13 3/8" L x 7 1/2" W
Magnetic Force (1" plate)	6600 lbs.
Arbor Bore	3/4" **
Automatic Lubrication	Included
Swivel Base	Order Model ECO-100/3DAK

\* 220 Volt / 50 Hz also available \*\* 1 1/4" also available

\*\*\* Power Assist Part No. 020.0336



Cutter capacity up to 4" dia. stroke: 10"

Twist drill capacity up to 1 1/4" dia. stroke: 6 1/2" w/chuck

Tapping capacity up to 1 1/8" dia.

See pages 18-24 for Annular Cutters and Accessories.





Cutter capacity  
5" dia.

# ECO-130AK



## Triple arbor bearing guidance for drilling up to 5" dia.



Model ECO-130AK

- Strongest magnetic drill press in its class
- Variable-speed and two gears (40-140 and 120-480 RPM)
- Multiple speeds match cutter diameter to correct RPM
- 3 1/3" stroke with special triple arbor bearing guide
- Powerful, high-torque 16 Amp motor with reverse
- Variable torque control regulates power output
- HD dual-coil magnet has holding strength of 10,560 lbs.
- Drills up to 5" diameter holes with TCT Annular Cutters
- Mechanical slip clutch disconnects the transmission in case of overload
- Automatic lubrication system
- Optional Power Assist to maintain maximum RPM under full load  
(Part No. 020.0336)

See page 21 for more information.



Automatic cooling/  
lubrication system



Triple arbor bearing guide ensures stability for large-diameter hole drilling.

**TEMPTEC**  
Magnet

**SENSORTEC**  
System

See page 2

Ideal for use with large-diameter Tungsten Carbide-tipped (TCT) cutters (see page 20).



Standard equipment includes carrying case, safety chain, carabin hook and allen keys.

Includes one-year warranty



Optional 3/4" arbor adapter, P/N IBK-32/19

Cutter capacity up to 5" dia.

See pages 18-24 for Annular Cutters and Accessories.

### Model ECO-130AK

Motor Power	16 Amp / 110 Volt*
Weight	79 lbs.
Hole Capacity	5" dia.
Speeds	40-140 and 120-480 RPM
Magnet Base Size	9 1/2" L x 4 3/4" W
Dimensions	26 1/4" H x 13 3/8" L x 7 1/2" W
Magnetic Force (1" plate)	10,560 lbs.
Arbor Bore	1 1/4"***
Automatic Lubrication	Included

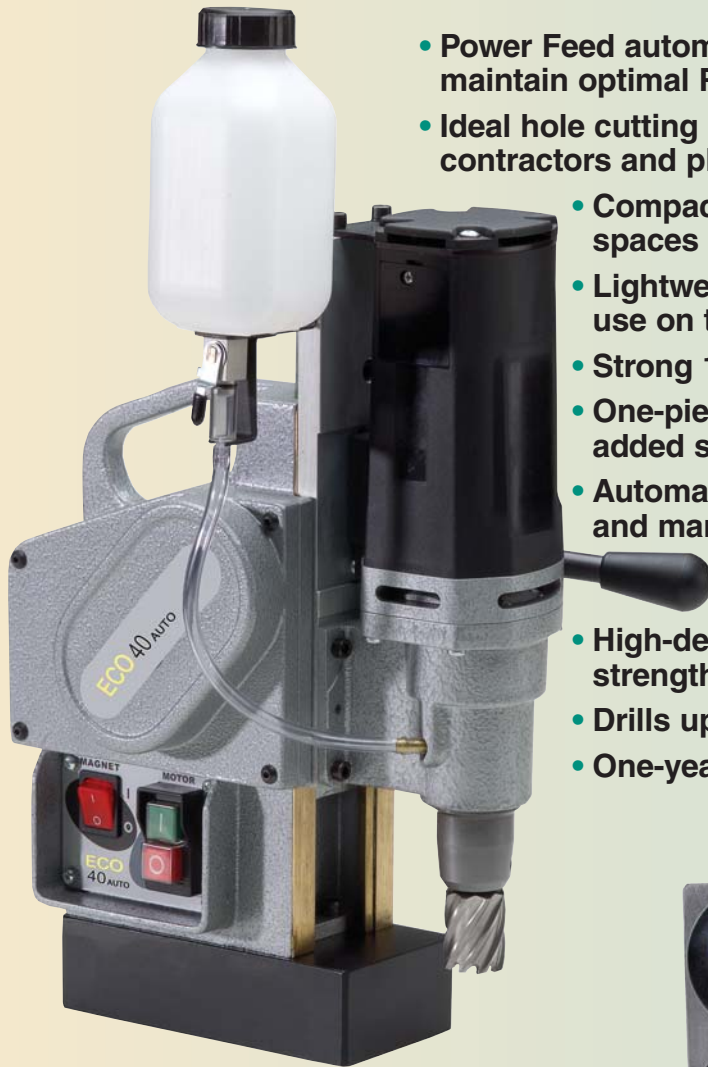
\* 220 Volt / 50 Hz also available    \*\* 3/4" also available, Part No. IBK-32/19  
\*\*\* Power Assist Part No. 020.0336



# ECO-40 Auto with Power Feed



## Heavy-duty compact drill with automatic feed



Model ECO-40 Auto

- Power Feed automatically controls drill pressure to maintain optimal RPM and feed rate
- Ideal hole cutting machine for steel fabricators, contractors and plant maintenance professionals
- Compact height of 16<sup>1</sup>/<sub>8</sub>" allows drilling in tight spaces
- Lightweight and portable at only 37<sup>1</sup>/<sub>2</sub> lbs. for use on the job site or in the shop
- Strong 10.5 Amp double-insulated motor
- One-piece motor mount and arbor support for added strength and stability
- Automatic feed mechanism with automatic stop and manual retraction
- High-density dual-coil magnet has holding strength of 2640 lbs.
- Drills up to 1<sup>1</sup>/<sub>2</sub>" dia. holes with Annular Cutters
- One-year warranty



All CS Unitec high-density dual-coil magnets are ground, not cast, and are wound into two circles to increase the surface area and density of the magnetic field.

Standard equipment includes auto lubrication, carrying case, safety strap, carabin hook, gloves, safety glasses, ear protection and allen keys.

Includes one-year warranty



Cutter capacity up to 1<sup>1</sup>/<sub>2</sub>" dia. stroke: 3"

See pages 18-24 for Annular Cutters and Accessories.

### Model ECO-40 Auto

Motor Power	10.5 Amp / 110 Volt
Weight	37 <sup>1</sup> / <sub>2</sub> lbs.
Hole Capacity	1 <sup>1</sup> / <sub>2</sub> " dia.
Speed	360 RPM
Magnet Base Size	7 <sup>1</sup> / <sub>16</sub> " L x 3 <sup>1</sup> / <sub>2</sub> " W
Dimensions	16 <sup>1</sup> / <sub>8</sub> " H x 12" L x 7 <sup>3</sup> / <sub>4</sub> " W
Magnetic Force (1" plate)	2640 lbs.
Arbor Bore	<sup>3</sup> / <sub>4</sub> "
Automatic Lubrication	Included



Cutter capacity  
2 1/16" dia.

# AIRBOR™ AB-4300-2 and AB-4300-2R

## Pneumatic power for hazardous environments

**ATEX Approved**

Motor and magnet are powered completely by compressed air



Model AB-4300-2

AIRBOR™ is inherently safer than electromagnetic drills in hazardous atmospheres and wet environments where electricity requires "hot work permits." **ATEX approved.**

- Industry's first completely air-operated magnetic drill – **NO ELECTRICITY!**
  - Fail-safe permanent magnet is activated "on" and "off" by air pressure; in the event of a loss of air flow, the magnet *will not* disengage
- Magnet has a holding strength of 1600 lbs.
- Powerful 1.6 HP drill motor
- Lightweight and portable
- Long drill stroke – up to 10 1/4"
- Drills up to 2 1/16" dia. holes with Annular Cutters
- Pressurized coolant system lubricates cutter and reduces risk of sparking



With a geared chuck adapter (Part No. IBK-18) and extra rack (Model No. AB-4300-2R), AIRBOR™ easily converts to a standard drill press with a 7 1/2" stroke.

AB-4300-2R shown with extra rack up (left) and extra rack down (right).



Cutter capacity up to 2 1/16" dia.

Twist drill capacity up to 1/2" dia.

See pages 18-24 for Annular Cutters and Accessories.

### Model AB-4300-2 and AB-4300-2R

Model Comparison			
AB-4300-2R		AB-4300-2	
<b>Drill Stroke</b>			
w/cutters	w/chuck	w/cutters	w/chuck
10 1/4"	7 1/2"	4 7/8"	1 3/4"
<b>Height</b>			
closed	open	closed	open
13 1/2"	22"	13 1/2"	17 1/2"
<b>Weight</b>			
lbs.	kg	lbs.	kg
43	20	38	18

Motor Power (Pneumatic)	1.6 HP
Hole Capacity	2 1/16" dia.
Twist Drill Capacity	1/2" dia.
No Load Speed	400 RPM
Air Consumption @ 90 PSI	64 CFM
Magnet Base Size	8 3/4" L x 3 1/2" W
Dimensions	13 1/2" H x 12 1/2" L x 4 3/4" W
Magnetic Force (1" plate)	1600 lbs.
Arbor Bore	3/4"
Automatic Lubrication	Included
Stroke Length: 4 7/8"	Order Model AB-4300-2
Stroke Length: 10 1/4"	Order Model AB-4300-2R

# HB-4400

Hydraulic for marine and construction – works underwater



Cutter capacity  
2 1/16" dia.



Hoses not included

Ratchet manually operates magnet

- Ideal for industrial, construction, marine and mining applications
- Hydraulic motor safe for underwater use
- Drill structural steel and other metals
- Stainless steel construction resists corrosion
- Manually operated permanent magnet with ratchet control has holding strength of 1300 lbs.
- Lightweight, rugged machine for cutting up to 2 1/16" diameter holes with Annular Cutters
- Easily converts to a standard drill press with a chuck for conventional twist drills up to 1/2" dia.
- Includes automatic lubrication



Standard equipment includes safety straps, allen keys and operating instructions.

With a 3/4" chuck (Part No. 602045A), this model easily converts to a standard drill press with a 3" stroke.



Cutter capacity up to 2 1/16" dia. stroke: 3 3/4"

Twist drill capacity up to 1/2" dia. stroke: 3"

See pages 18-24 for Annular Cutters and Accessories.

## Model HB-4400

Motor Power (Hydraulic)	1.5 HP
Weight	48 1/2 lbs.
Hole Capacity	2 1/16" dia.
Twist Drill Capacity	1/2" dia.
No Load Speed, Variable	0-630 RPM
Hydraulic Supply	Flow 6.5 GPM @ 2000 PSI
Magnetic Force (1" plate)	1300 lbs.
Automatic Lubrication	Included

PORTABLE HYDRAULIC MAGNETIC DRILLS

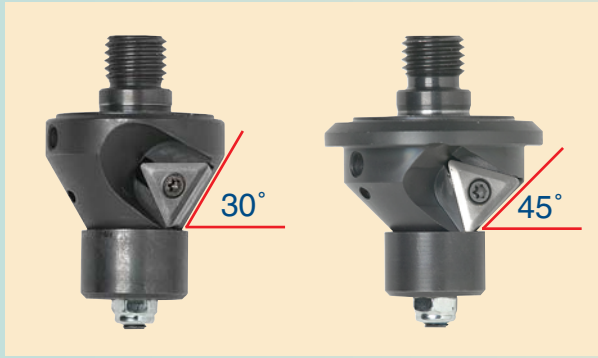


# Multi-purpose Beveling Machine

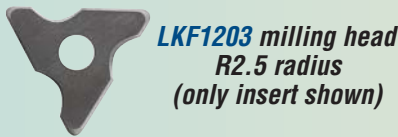
**Bevel, deburr & chamfer edges of steel plate faster and cleaner than angle grinders**



*One Machine, Three Milling Options*



LKF1201 milling head 30° LKF1202 milling head 45°



LKF1203 milling head  
R2.5 radius  
(only insert shown)

**Accessories:**

LKS20 - Sintered carbide cutting plate for LKF 1201 and LKF1202

LKS20-R - Sintered carbide cutting plate for LKF1203 (shown above)

- Bevel 30° or 45° weld seams on steel, stainless steel, nonferrous metals, brass and plastics
- Deburr and chamfer, straighten edges, internal and external radii and countersink holes from 7/8" dia.
- Fine adjustment feature for slight chamfers when deburring for the preparation of weld seams
- Three milling heads – 30°, 45° and radius R2.5 – are available
- Ideal for the following applications:
  - Moldmaking:** straighten edges, internal and external radii and countersink holes from 7/8" dia.
  - Boiler and process plant construction:** prepare weld seams on heat exchangers
  - Mechanical engineering:** deburr machine parts, chamfer edges to protect against paint peeling and create visible edges
  - Sheet metal:** deburr cut edges
- One-year warranty



Standard equipment includes milling head and 2 inserts, SW22 key, carrying case and user's manual.

Model No.	Beveling Angle	Bevel Width (Max.)*	Motor Power (Amps)	Voltage*	Cutting Speed (SFPM)	Dimensions (L x W x H)	Weight (lbs.)
LKF450-2A	30°	1/4"	10	110V	3000	12 1/4" x 5 1/2" x 11 5/8"	10 1/2
LKF450-2	45°	1/4"	10	110V	3000	12 1/4" x 5 1/2" x 11 5/8"	10 1/2

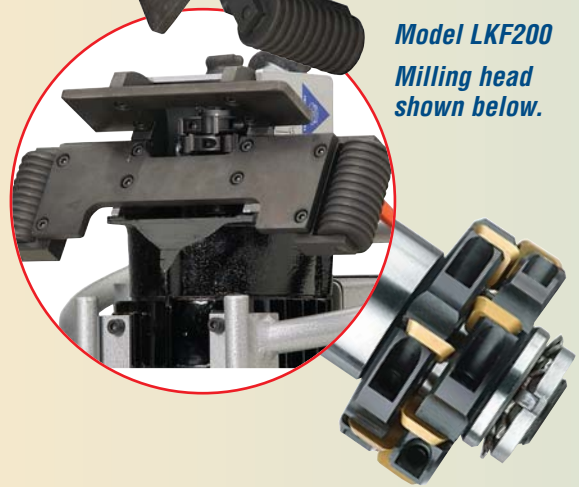
\*\* All units available in 220 Volt / 50Hz † Max. bevel width may require several passes, depending on material hardness

# Portable Beveling Machine

Bevel angles from 15° to 60° on plate and pipes



- Fast and easy preparation of weld seams
- Bevel 15° to 60° angles on plate or pipe
- High-quality performance allows better weld connections
- Continuously adjustable angle (15° to 60°) and land width up to 5/8"
- Ideal for steel, stainless steel, aluminum and nonferrous metals
- Robust design, single operator control and easy handling
- Includes two milling heads and 12 total indexable inserts for fast metal removal and extended tool life



*Model LKF200  
Milling head  
shown below.*

- Welding angles and weld preparation on pipes/tubes with a minimum OD of 6 1/4" (160mm) with included pipe roller guide
- Ideal for beveling pipe 6 1/4" OD and larger
- Designed for continuous operation
- Smooth roller guides
- One-year warranty



*Standard equipment includes two milling heads, each with 6 sintered carbide reversible cutting inserts, tools for assembly, LKF 225 pipe roller guide (shown at left), steel carrying case and user's manual.*



*Ideal for beveling pipe 6 1/4" OD and larger.*

**Accessories:**

**LKS10 - Sintered carbide cutting plates (10 per pack)**

Model No.	Adjustable Beveling Angle	Bevel Width (Max.)	Motor Power (Amps)	Voltage*	Rotation Speed (SFPM)	Dimensions (L xH)	Weight (lbs.)
<b>LKF200</b>	15° - 60°	5/8"†	14	110V	1800	16 1/2" x 13"	42

\*\* Available in 220 Volt / 50Hz † Max. bevel width may require several passes, depending on material hardness

# Unibroach® Annular Cutters

## Faster and more accurate than twist drilling

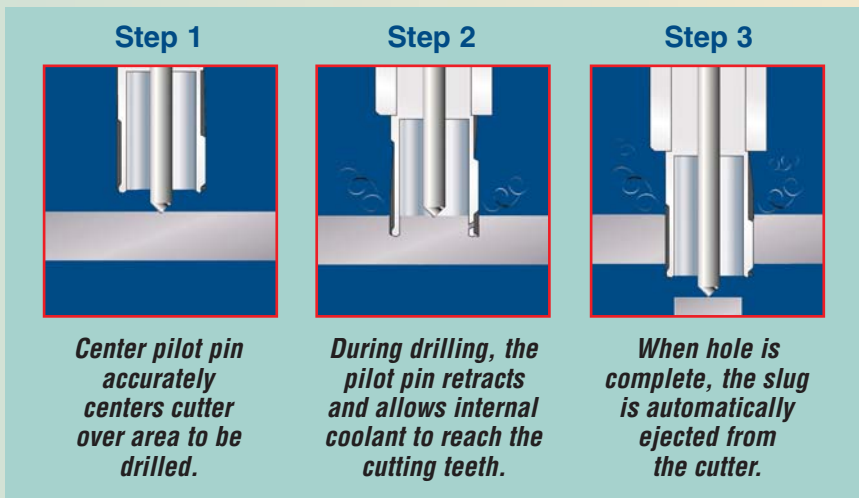
ANNULAR CUTTERS



*Unibroach® cutters are made of hardened, high-speed tool steel and precision ground with up to 16 teeth for fast drilling*

CS Unitec's Unibroach® Annular Cutters drill a burr-free finished hole by cutting only the material around the periphery of the hole. This forms a solid slug which automatically pops out.

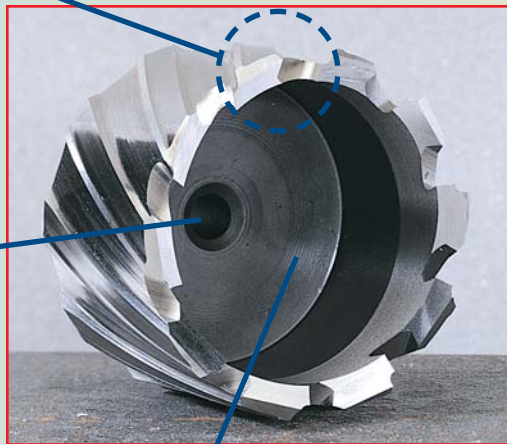
- Less time and energy are consumed per hole
- Faster feed rates are achieved with more cutting teeth and less tool wear
- Lighter, less powerful drilling equipment can be used
- Able to drill holes which are difficult or impossible to do accurately with conventional twist drill tooling – with no predrilling or stepdrilling required



*Double-action tooth geometry cuts, splits and ejects chips more efficiently,*

- increasing cutting speed
- reducing tooth load
- minimizing tool wear
- lengthening cutter life

*Center hole for pilot pin accurately aligns the cutter, allows for internal lubrication and removes the slug.*



*Engineered with a tapered inner wall for smooth, easy slug ejection.*

*Perfect drilling to close tolerances without runout. The result: a burr-free finished hole.*





# Unibroach® Annular Cutters



**Less Friction = Less Heat = More Holes!**  
**Increase tool life and achieve faster feed rates**

## ARMOR-PLATED Unibroach™ Cutters – TiAIN

ARMOR-PLATED Unibroach™ Cutters, at 90Rc hardness, are the state-of-the-art in hole cutting technology. They multiply service life, reduce cost and increase productivity.



- 3 to 4 times longer tool life with TiAIN coating
- Drill with less friction and more power
- Withstands higher working temperatures – up to 1480°F (800°C)
- Dry drilling or lubricating with water simplifies working conditions and cleanup\*
- Prevents cold weld – metal chips do not adhere to the cutter
- Ideal for structural steel and hard metal
- 3/4" dia. shank (1 1/4" dia. shank available)

\* After the TiAIN coating is worn, lubricate with cutting oil



ARMOR-PLATED Unibroach™ cutters are available in the following sizes:

- 1" drill depth –  $\varnothing 7/16"$  to  $\varnothing 5"$
- 2" drill depth –  $\varnothing 7/16"$  to  $\varnothing 5"$
- 3" drill depth –  $\varnothing 3/4"$  to  $\varnothing 5"$

- 3/4" shank is standard for cutters up to 3" dia.
- Metric cutters available on request
- See our price list for part numbers

## Unibroach® High-Speed Steel (HSS) Cutters



Annular Cutters are the standard hole-making drills in the industry. Ideal for heavy-duty use on-site or in the shop, our HSS Unibroach™ cutters are available in the following sizes:

- 1" drill depth –  $\varnothing 7/16"$  to  $\varnothing 5"$
- 2" drill depth –  $\varnothing 7/16"$  to  $\varnothing 5"$
- 3" drill depth –  $\varnothing 3/4"$  to  $\varnothing 5"$

- Metric cutters available on request
- See our price list for part numbers

- CNC precision ground for fast penetration, accuracy and long life
- Drill holes 3 times faster than twist drills
- Produce reamed-quality burr-free holes and solid slugs
- Reduce machine size and weight
- Cutting edges are resharpenable
- Eliminate time-consuming, costly pilot holes and step drilling



3/4" dia. shank. Also available with 1 1/4" dia. shank.

\* HSS Cutters must be used with lubricant. See page 21 for CS Unitec lubricants and cutting oil.

CNC-ground flutes run the length of the cutter for efficient chip clearance. This increases drilling productivity and decreases cutter breakage.

Unibroach® Stack Cutters are available in diameters from  $7/16"$  to  $1 1/8"$  in 1", 2" and 3" depths. Drill multiple layers of steel without stopping to remove the center slug. Please contact us or consult our price list for more information.

## Unibroach® Annular Cutters

High-speed drilling – on the job site or in the shop

### Unibroach® Tungsten Carbide-tipped (TCT) Cutters



- Metric cutters available on request
- See our price list for part numbers

- Use high-speed RPM for best results and faster holemaking
- Ideal for drilling steel with rust or paint
- Will outlast High-speed Steel cutters
- Leaves a burr-free finished hole
- Available in all sizes (fractional and metric)
- $\frac{3}{4}$ " or  $1\frac{1}{4}$ " shank

Available in the following sizes:

- 1" drill depth –  $\varnothing \frac{5}{8}$ " to  $\varnothing 2$ "
- 2" drill depth –  $\varnothing \frac{11}{16}$ " to  $\varnothing 5$ "
- 3" drill depth –  $\varnothing \frac{13}{16}$ " to  $\varnothing 2$ "

### Unibroach® Cobalt Cutters



- $\frac{3}{4}$ " shank is standard for cutters up to 3" dia.
- Metric cutters available on request
- See our price list for part numbers

- Unibroach® Cobalt Cutters are made with 5% cobalt to increase resistance to wear
- Excellent results when drilling high-tensile steel and difficult-to-machine materials
- Available with TiAlN coating upon request
- Available for hole sizes up to 5" dia.



### Unibroach® Large-diameter Hole Cutting

Drill perfect holes up to 5" diameter without runout

- Standard with  $\frac{3}{4}$ " or  $1\frac{1}{4}$ " shank diameters
- More cutting teeth to distribute the load evenly
- Increase tool life and achieve faster feed rates
- Use on milling machines, drill presses, CNC and other equipment
- A solid slug has a higher value for scrap metal
- Available in HSS, Cobalt, TCT and ARMOR-PLATED Unibroach™



### Unibroach® Cutter Kits

Kits include one each:  $\frac{9}{16}$ ",  $\frac{11}{16}$ ",  $\frac{13}{16}$ ",  $\frac{15}{16}$ ",  $1\frac{1}{16}$ " (for cutter depth of 1" or 2"), pilot pin and plastic case

# Lubricants

**Coolant extends the life of cutting tools!**

**ProLube™** Ideal for cutting steel, stainless steel and hard metals

Your cutting tools will work cooler, longer and more efficiently with ProLube™ Lubricants from CS Unitec.

- Prolong tool life by reducing friction and wear
- Unique composition provides excellent adhesion to cutting tools for maximum lubrication
- Corrosion inhibitor
- Non-toxic



**ProLube Liquid**  
Water soluble 16:1  
CS 7010-504  
1 gal. bottle



**ProLube Paste**  
CS 7030-712  
12 oz. tub

## Cutting Oil



[Part No. IBO.20Q (quart); IBO.20G (gallon)]

- High-alloy cutting oil for heavy removal of metal, including stainless steel
- Chlorine-free (MSDS on bottle)
- Not necessary to dilute with water

**Upgrade your drill's cooling system: see page 23 for arbors with automatic cooling.**



## Power Assist

The Power Assist is a standard capstan, designed with delayed torque transfer. This decreases the load on both cutter and drilling machine, allowing the machine to maintain max. RPM under full load

- Reduces drilling time
- Prevents cutter breakage
- Extends lifespan of cutter/drill bit
- Extends life of machine



Power Assist Capstan

- 030E.0048 – Included with ECO-30
- 020.0330 – Power Assist for ECO-32 and ECO-50 machines
- 020.0336 – Power Assist for ECO-80, ECO-100 and ECO-130 machines
- 020.0063 – Power Assist with wrench mechanism for ECO-32 and ECO-50 machines
- 020.0064 – Power Assist with wrench mechanism for ECO-80, ECO-100 and ECO-130 machines



Power Assist Wrench Mechanism



# Accessories



## Pilot Pins for Cutters

- Milled channel efficiently supplies internal lubrication to cutting teeth
- Available for cutter diameters ranging from 7/16" to 5" and 1", 2", 3" and 4" depth of cut
- See price list for part numbers

## Drill Chucks for Straight Shank Twist Drills

- Two capacities: 1/2" and 3/4"
- Four chucks and adapters to fit all magnetic drills:
  - A) **IBK-17** – 1/2" chuck for ECO-32 and ECO-32T
  - B) **IBK-18** – 1/2" chuck with 3/4" shank for AIRBOR™ and HB-4400 (fits all drills with 3/4" arbor bore)
  - C) **IBK-21** – 3/4" chuck with MT3 shank for ECO-80AK and ECO-100/3AK
  - D) **IBK-22** – 3/4" chuck with MT2 shank for ECO-50 and ECO-50T



## Tapping Tools, Tap Collets and Tapping Chucks



- Manufactured from high-quality HSS to ASA Standard (or DIN 376 for metric)
- Ideal for CS Unitec's portable drilling and tapping machines and other drills

*Tap collets fit magnetic drills with 3/4" arbor bore. They are available for taps 1/4" through 3/4". They hold standard USA taps conforming to ASA.*



*Model No. **GSW.222** quick-change tapping chuck with MT2 connection, complete with flexible collet to tap 5/16" to 5/8". For use with ECO-50T magnetic drill.*

*Model No. **GSW.830** tapping chuck utilizes two variable clamp collets to tap 3/8" to 1 1/8". It is the least expensive system if you will tap more than 4 sizes. **GSW.830** has an MT3 connection. For use with ECO-100 magnetic drill.*



*Variable clamp collets for use in tap chuck No. **GSW.830***

*Model No. **VSP.160** variable clamp collet fits shanks 3/8" – 5/8".*

*Model No. **VSP.230** variable clamp collet fits shanks 5/8" – 7/8".*



# Accessories

## Arbors for Annular Cutters



Manual Cooling



Automatic Cooling



Extended Length



Keyless Arbor with Automatic Cooling

Keyless cutter arbors allow fast, no-tools changeover for 3/4" dia. shank annular cutters.

IMC.2Q – Morse Taper No. 2

IMC.3Q – Morse Taper No. 3

- Can be used on any magnetic drill stand, drill press or shop equipment with a Morse Taper intake of No. 2, No. 3 or No. 4
- Available for Annular Cutter shank sizes of 3/4" or 1 1/4" Weldon
- Available for automatic internal cooling or manual cooling

**MC.2** – Morse Taper No. 2  
3/4" arbor bore  
manual cooling

**IMC.20** – Morse Taper No. 2  
3/4" arbor bore  
automatic cooling

**MC.3** – Morse Taper No. 3  
3/4" arbor bore  
manual cooling

**IMC.30** – Morse Taper No. 3  
3/4" arbor bore  
automatic cooling

**MC.4** – Morse Taper No. 4  
3/4" arbor bore  
manual cooling

**IMC.30/32** – Morse Taper No. 3  
1 1/4" arbor bore  
automatic cooling

### 82° and 90° Countersinks

- Manufactured of HSS with 5% cobalt
- 3/4" Weldon shank

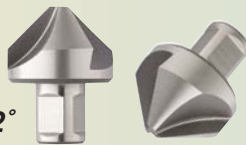
Countersink hole sizes:

**SCE 20** from 3/8" to 1 1/2" / 82°

**SCE 30** from 5/8" to 2" / 82°

**SCE 40** from 3/8" to 1 1/2" / 90°

**SCE 50** from 5/8" to 2 1/8" / 90°



### Twist Drills with 3/4" Weldon Shank

- Manufactured of high-speed steel
- Same 3/4" connection as Annular Cutters
- Bit diameters from 1/4" to 3/8"



## Cooling System

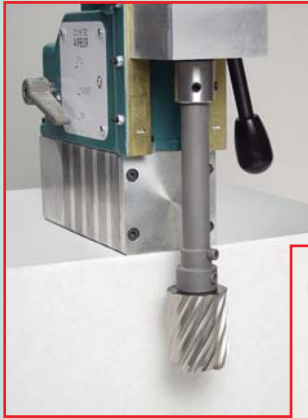
The cooling system on all our drills has been upgraded for easier use. The coolant reservoir is quickly and easily attached to the magnetic drill via a new magnet system. The coolant flow is measurable and easily monitored through a clear cylinder.

The hose connecting the reservoir to the spindle has also been upgraded. It is now equipped with a wear-resistant mechanical locking system that securely fastens the hose to the arbor.



# Accessories

## Extensions for Annular Cutters Extra-long holders extend stroke of drills



3/4" Weldon Shank  
(2 Flats)

6" length (p/n 7-9-906)  
12" length (p/n 7-9-912)

- Extend cutter reach up to 12"
- Available for magnetic drills with 3/4" arbor bore or MT3
- Also available with 3 flats for straight shank drill chucks and R8 shanks for drill presses



- Drill difficult-to-reach areas
- Extend cutter reach over the side or through an existing hole\*

3 Flats

\* Hole diameter must be larger than 1 5/16" to accommodate width of extension



R8



3 Flats for Geared Chucks x 3/4" arbor



MT2 or MT3 x 3/4" arbor

## Pipe Clamp Saddle System

Ensures safe, secure drilling of pipes and tubular material



Ideal for a wide variety of pneumatic, hydraulic or electric drills

- Quick clamping feature for fast setup on pipes up to 20" dia. and larger
- For use on steel, stainless steel and other materials
- Chain tensioner secures saddle to pipe in any position, while four independent steel feet automatically adjust to pipe contour
- Larger sizes available with optional extension chain\*

	Model PAK-100	Model PAK-200
	For models ECO-30/3P, ECO-32, ECO-32T and MDM-40	For models AB-4300-2, ECO-50, ECO-80, ECO-100/3, ECO-40 AUTO and HB-4400
Pipe OD	3 1/4" to 10" dia.	6" to 20" dia.
Maximum Magnet Dimensions	6 5/8" L x 3 5/16" W	9" L x 4 3/8" W
Weight	14 lbs.	23 lbs.

\* For larger pipe sizes, order 39" extension chain, Part No. PAK-CHAIN



# Electric Drills and Drive Units

## High-torque, multi-gearred and variable-speed motors



### Heavy-duty Drills for Industrial and Construction Applications:

- High-torque output
- Variable-speed, two- and four-gearred drills for optimum speed selection
- Reversible motors and electronic torque control on selected models
- Ideal for special applications including valve turning, tube rolling and other jobs
- Safety slip clutch on 1<sup>1</sup>/<sub>4</sub>" capacities to protect operator and tool
- Drilling capacities up to 1<sup>1</sup>/<sub>4</sub>" in steel
- Special OEM motors available on request
- One-year warranty



Model No.	Motor Power (Amps)	Voltage*	Load Speed (RPM)	Drilling Capacity in Steel	Torque Output (ft./lbs.)	Reversible	Chuck/Arbor	Weight (lbs.)
<b>EHB 16/1.4 S</b>	7.3	110V	0-500	5/8"	12	NO	5/8" Keyless	6.8
<b>EHB 16/2.4 S</b>	10	110V	0-430/0-760	5/8"	19	NO	5/8" Geared	7
<b>EHB 16/2.4 R/L</b>	10	110V	430/760	5/8"	19	YES	5/8" Geared	7
<b>EHB 16/2.4 S/RL</b>	10	110V	0-430/0-760	5/8"	19	YES	5/8" Geared	7
<b>EAW 16/2 R/L</b>	9	110V	900/1600	N/A	8	YES	5/8" X 16 UN	7
<b>EHB 20/2.4</b>	10.5	110V	250/450	3/4"	32	NO	MT2	9.2
<b>EHB 32/4.2</b>	15.5	110V	110/175/245/385	1 <sup>1</sup> / <sub>4</sub> "	112	NO	MT3	15.2

\* All units available in 220 Volt / 50Hz Special Motors available upon request.

# Slow-speed Electric Drills and Drive Units

## Two-gearred, variable-speed reversible motors



Model ETE 32/2.3 R/RL  
(shown with optional  
Square Drive adapter)

- High-torque, two-gearred and variable-speed reversible motors
- Ideal for drilling, reaming and tapping steel
- Driving applications include mills, spindles, bar boring, pipe beveling and valve turning
- Perfect for tube rolling and expanding for fire tube and water tube boilers
- Mechanical safety clutch prevents operator injury or damage to the tool
- Morse Taper #3 arbor
- One-year warranty



Model EHB 32/2.2 R/RL  
Model ETE 32/2.3 R/RL



Up to 1 1/4"  
twist drill  
capacity

1/2" and 3/4" Square Drive  
accessories allow motor  
compatibility for various  
drive applications.\*



Model No.	Motor Power (Amps)	Voltage**	Load Speed (RPM)	Drilling Cap. in Steel	Tube Rolling (max.)	Revers-ible	Torque Output (ft./lbs.)	Torque Control	Arbor	Weight (lbs.)
EHB 32/2.2 R/RL	16.3	110V	60-140 / 200-470	1 1/4"	2"	YES	92 max.	YES	MT3	14
ETE 32/2.3 R/RL	16.3	110V	30-75 / 90-230	N/A	3" ***	YES	174 max.	NO	MT3	15

\*\* All units available in 220 Volt / 50Hz

\*\*\* With Expander (Up to 2 1/2" with Bead Roller)

\* 1/2" Square Drive with MT3 – Part No. 830-1230-050

3/4" Square Drive with MT3 – Part No. 830-1230-075

## High-torque reversible drilling and tapping machines

- High-torque reversible drilling, tapping and threading machines
- Ideal for drilling, reaming, tube rolling, tube expanding and tapping
- Use for special applications including mills, spindles, slides, controllers, pipe tapping, valve turning and more
- Drill chucks and Morse Taper arbors
- Hammer drills for drilling concrete with up to 2200 blows per minute
- Special OEM air motors available on request
- One-year warranty

### Morse Taper Drills w/ Feed Spindle



*Model 2 2089 0030 with reverse and safety twist throttle*

### D-handle Drills



*Model 2 1310 0010*

### Pneumatic Hammer Drills    Pneumatic Pistol Drills



*Model 2 1266 0010*



*Model 2 1261 0010*



*See page 29 for Rotary Hammer Drills*

Model No.	Motor Power (HP)	Load Speed (RPM)	Reversible	Chuck/ Arbor	Drilling Cap. in Steel	Tube Rolling Cap.	Torque Output (ft./lbs)	CFM at 90 PSI	Length	Feed Length	Weight (lbs.)
<b>Pistol Drills</b>											
2 1261 0010	0.7	90-850	NO	1/2" Chuck	1/2"	N/A	7 max.	21	9 <sup>3</sup> / <sub>4</sub> "	N/A	4.6
<b>Hammer Drills (for concrete and underwater applications)</b>											
2 1266 0010	0.75	950	NO	1/2" Chuck	1/2"	N/A	7 max.	21	12"	N/A	6.7
<b>D-handle Drills</b>											
2 1310 0010	0.8	650	NO	1/2" Chuck	1/2"	N/A	8 max.	24	12 <sup>1</sup> / <sub>2</sub> "	N/A	12
2 1311 0010	0.8	650	NO	MT1	5/8"	N/A	8 max.	24	11"	N/A	12
<b>Morse Taper Drills w/ Feed Spindle</b>											
2 2089*	1.7	250	YES	MT3	1 <sup>1</sup> / <sub>4</sub> "	1"	36 max.	24	26 <sup>1</sup> / <sub>2</sub> "	1 <sup>5</sup> / <sub>8</sub> "	28
2 2506*	2.5	220	YES	MT3	1 <sup>1</sup> / <sub>4</sub> "	2"	63 max.	70	26 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>2</sub> "	32
2 2502*	2.5	80	YES	MT4	2"	2 <sup>1</sup> / <sub>2</sub> "	173 max.	70	26 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>2</sub> "	37

\* The last four digits of the Model No. identify the type of throttle. Please specify the four digits when ordering: 0010 for Lever Throttle or 0030 for Safety Twist Throttle.



# Pneumatic and Hydraulic Corner Drills and Drives

## High-torque drilling, reaming and driving units



Model 2 1801 0030

**ATEX**

### Corner Drills and Bridge Reamers

- Small side-to-side distance for working in tight spaces
- Self-closing roll throttle
- Built-in oiler for motor
- Ideal for bridge reaming and drilling applications
- One-year warranty
- Visit [www.csunitec.com](http://www.csunitec.com) for dimensions

### Slow-speed, High-torque Straight Drive Units



Model 2 2087 0010 with reverse and lever throttle

- Ideal for heavy-duty reaming, tube expanding and tapping
- Perfect for special driving applications, including pipe tapping and valve turning

### Square Drive Accessories

2 2089 7020 – 7/8" Male Square Drive to 3/4" Male Square Drive  
 2 2089 7070 – 7/8" Male Square Drive to 1" Male Square Drive

Pneumatic Corner Drill Model No.	Morse Taper	Drilling (in steel)	Reaming (in steel)	Tube Rolling Cap.	Torque Output (ft./lbs.)	Load Speed (RPM)	Motor Power (HP)	CFM at 90 PSI	Length	Weight (lbs.)
<b>Nonreversible</b>										
2 1602 0030	#1	5/8"	1/2"	N/A	7	500	0.7	21	12.5"	7
2 1701 0030	#2	7/8"	5/8"	N/A	35	270	1.8	49	20.9"	19
2 1801 0030	#3	1 1/4"	1"	N/A	53	260	2.6	63	22.5"	25
<b>Reversible</b>										
2 2104 0030	#4	2 1/8"	2"	2"	86	180	3.0	71	23.8"	37

Model No. 2 1602 0030 has a 3/8" NPT air inlet. 1/2" (13mm) hose is recommended. All other models have 3/4" NPT air inlet. A 1/2" (13mm) hose is recommended for model 2 1701 0030. A 5/8" (15mm) hose is recommended for models 2 1801 0030 and 2 2104 0030.

Hydraulic Corner Drill Model No.	Morse Taper	Drilling (in steel)	Reaming (in steel)	Tube Rolling Cap.	Torque Output (ft./lbs.)	Load Speed (RPM)	Motor Power (HP)	Oil Flow/PSI	Length	Weight (lbs.)
2 1806 0010	#3	1 1/4"	1"	N/A	60	220	3.8	4 GPM @2000	21"	25

Pneumatic Drive Unit Model No.	Square Drive ID	Torque Output (ft./lbs.)	Load Speed (RPM)	Reversible	Tube Rolling Cap.	Tapping Cap.	Motor Power (HP)	CFM at 90 PSI	Height x Length	Weight (lbs.)
2 2081*	13/16"	413	20	YES	3"	1 1/2"	1.35	53	10.9" x 26.5"	29
2 2087*†	7/8"	413	20	YES	3"	1 1/2"	1.35	53	10.9" x 26.5"	29
2 2088*†	7/8"	138	60	YES	2"	3/4"	1.35	53	10.9" x 26.5"	29

\* The last four digits of the Model No. identify the type of throttle. † Square drive accessories available (see above). Please specify the four digits when ordering: 0010 for Lever Throttle or 0030 for Safety Twist Throttle.

# Pneumatic and Hydraulic Rotary Hammer Drills

## Powerful percussion drilling for concrete and masonry

- Holes cost less with SDS drill bits
- Safety clutch protects against overloading and jamming
- Hammer drill holes in concrete, brick and masonry
- Rotary drilling mode for straight drilling of steel and wood



Air Model 2 2404 0010  
SDS Plus up to 1" dia.

### SDS Max – Modes of Operation

2" bit capacity for drilling concrete and masonry



**Hammer with Rotation**  
Ideal for concrete drilling

**Rotation Only**  
Ideal for drilling wood and steel

Air  
Model 2 2414 0010  
SDS Max

### SDS Plus – Hammer and Drill

1" bit capacity for drilling concrete and masonry

*Drill concrete anchor holes, thru holes, piping and mechanical openings and other construction and repair work. Switches to rotary drilling mode for steel and wood.*



Hydraulic Model  
2 2410 0010  
SDS Max

Second handle position

SAE #8 port for hydraulic hose connection



Hydraulic Model  
2 2406 0010  
SDS Plus

SAE #8 oil port

## SDS Drill Bits and Chisels



Small Masonry Bits  
SDS Plus up to 1" dia.



Large Masonry Bits  
SDS Max up to 2" dia.



Auger Drill Bit  
for wood



Chisel  
for demolition

Pneumatic Hammer Drill Model No.	Blows/Minute (BPM)	Drill Speed (RPM)	Solid Bit Capacity (Concrete)	Core Bit Capacity (Concrete)	Twist Drill (wood)	Power at 90 PSI	Air Consumption at 90 PSI	Tool System	Dimensions (inches)	Weight (lbs.)
2 2404 0010	0-3000	0-625	1" dia.	3" dia.	3/4" dia.	0.7 HP	21 CFM	SDS Plus	16 x 8 1/2 x 4	11
2 2404 0030*	0-3000	0-625	1" dia.	3" dia.	3/4" dia.	0.7 HP	21 CFM	SDS Plus	16 x 8 1/2 x 4	11
2 2414 0010	0-2500	0-250	2" dia.	6" dia.	1 1/4" dia.	1.6 HP	53 CFM	SDS Max	19 1/2 x 9.8 x 4 1/2	26

\* Underwater model – Optional underwater air tool line conditioner to displace moisture, Part No. MS 9105. See page 31.

Hydraulic Hammer Drill Model No.	Blows/Minute (BPM)	Drill Speed (RPM)	Solid Bit Capacity (Concrete)	Core Bit Capacity (Concrete)	Twist Drill (wood)	Power at 2000 PSI	Flow Range at 1450 PSI (GPM)	Tool System	Dimensions (inches)	Weight (lbs.)
2 2406 0010	0-3400	0-625	1" dia.	3" dia.	3/4" dia.	0.8 HP	5.8-13.2	SDS Plus	18 x 10 1/4 x 4	15
2 2410 0010	0-2500	0-250	2" dia.	6" dia.	1 1/4" dia.	1.8 HP	2.6-13.2	SDS Max	19 1/2 x 11 1/8 x 7 1/2	25

Hydraulic Hammer Drills operate at hydraulic pressures of 1,450 - 2,000 PSI

# Pneumatic and Hydraulic Nut Runners

ATEX

PNEUMATIC AND HYDRAULIC NUT RUNNERS

*Ideal for turning valves, tightening, tapping, reaming, pipe beveling, expanding and more*



- Worm gear drive provides high torque – up to 554 ft.-lbs.
- Lightweight and reversible
- Compact angle head allows access to confined spaces
- Both Pneumatic and Hydraulic models available
- One-year warranty



Model  
6 1015 0075

Model numbers pictured above (listed from top to bottom): 6 1015 0075 (with male drive), 6 1015 0010 (female), 6 1014 0075 (with male drive)

*Available with Male or Female Square Drives, in a variety of sizes*



Male Sq. Drive Head  
1/2" or 3/4"



Female Sq. Drive Head  
3/4" or 7/8"  
(7/8" pneumatic only)



### Square Drive Accessory

6 1015 7030

3/4" Male Square Drive (included with model numbers 6 1014 0075, 6 1015 0075 and 6 1016 0075)

6 1015 7020

1/2" Male Square Drive (included with model numbers 6 1014 0099, 6 1015 0099 and 6 1016 0099)

Pneumatic Nut Runner Model No.	Square Drive F=Female M=Male	Stall Torque at 90 PSI (ft.-lbs.)	Free Speed (RPM)	Load Speed (RPM)	Power (HP)	CFM at 90 PSI	Side to Center Distance (inches)	Length (inches)	Weight (lbs.)	Air Connection (inches)	Hose ID (inches)
6 1014 0010	3/4" F	100	180	100	0.9	42	1	16	10	NPT 3/8	1/2
6 1014 0075	3/4" M	100	180	100	0.9	42	1	16	11	NPT 3/8	1/2
6 1014 0099	1/2" M	100	180	100	0.9	42	1	16	11	NPT 3/8	1/2
6 1015 0010	3/4" F	423	44	22	0.9	45	1	21	10	NPT 3/8	1/2
6 1015 0075	3/4" M	423	44	22	0.9	45	1	21	10	NPT 3/8	1/2
6 1015 0099	1/2" M	423	44	22	0.9	45	1	21	10	NPT 3/8	1/2
6 1016 0010	3/4" F	141	120	67	0.9	42	1	21	10	NPT 3/8	1/2
6 1016 0075	3/4" M	141	120	67	0.9	42	1	21	11	NPT 3/8	1/2
6 1016 0099	1/2" M	141	120	67	0.9	42	1	21	11	NPT 3/8	1/2
6 1017 0010	3/4" F	60	260	125	0.9	46	1	21	11	NPT 3/8	1/2
6 1017 0075	3/4" M	60	260	125	0.9	46	1	21	11	NPT 3/8	1/2
6 1017 0099	1/2" M	60	260	125	0.9	46	1	21	11	NPT 3/8	1/2
6 1021 0010	7/8" F	423	44	22	0.9	45	1	21	11	NPT 3/8	1/2

Hydraulic Nut Runner Model No.	Square Drive F=Female M=Male	Stall Torque at 90 PSI (ft.-lbs.)	Free Speed (RPM)	Load Speed (RPM)	Power (HP)	Oil Flow (GPM)	Oil Pressure (GPM)	Side to Center Distance (inches)	Length (inches)	Weight (lbs.)	Connection Quick Couplers
3 6242 0010	3/4" F	554	44	22	1.6	4 - 13	1000	1	20	22	1/2" FF
3 6242 0075	3/4" M	554	44	22	1.6	4 - 13	1000	1	20	22	1/2" FF
3 6242 0099	1/2" M	554	44	22	1.6	4 - 13	1000	1	20	22	1/2" FF



**Features:**

- 554 ft-lb stall torque
- Reversible
- Compact Angle Head
- Wormgear Drive

**Available with:**

- 1/2" Square Drive (Male)
- 3/4" Square Drive (Male)
- 3/4" Square Drive (Female)



Hydraulic Model No.	Square Drive	Stall Torque at 90 PSI (ft-lbs)	Free Speed (RPM)	Load Speed (RPM)	Power (H.P.)	Oil Pressure (PSI)	Side to Center Distance (in.)	Length (in.)	Weight (lbs.)	Connection Quick Couplers
3 6242 0010	3/4" F	554	44	22	1.6	1000	1	20	22	1/2" FF
3 6242 0075	3/4" M	554	44	22	1.6	1000	1	20	22	1/2" FF
3 6242 0090	1/2" M	554	44	22	1.6	1000	1	20	22	1/2" FF

## DRIVE UNITS, HYDRAULIC & AIR

High torque and slow speed for special driving and tapping applications



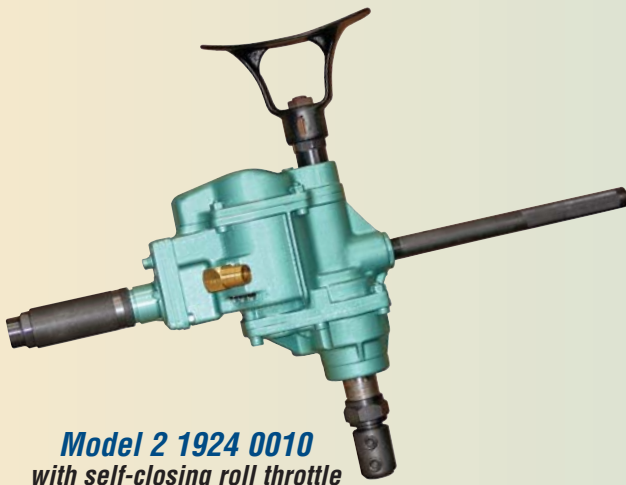
Hydraulic Model No.	Square Drive	Stall Torque at 90 PSI (ft-lbs)	Free Speed (RPM)	Load Speed (RPM)	Power (H.P.)	Oil Pressure (PSI)	Oil Flow (GPM)	Side to Center Distance (in.)	Weight (lbs.)	Connection Quick Couplers
2 2090 0010	3/4" F	565	40	20	1.5	1000	4-13	2.2	28	1/2" FF
2 2810 0010	1-1/8" F	2320	24	12	3.5	1000	4-13	3.6	77	1/2" FF

Air Model No.	Square Drive	Stall Torque at 90 PSI (ft-lbs)	Free Speed (RPM)	Load Speed (RPM)	Power (H.P.)	CFM at 90 PSI (in.)	Side to Center Distance (in.)	Weight (lbs.)	Air Connection (in.)	Hose ID (in.)
2 2804 0010	1-1/8" F	1970	40	20	5	141	3.6	82	NPT 1"	1"

(Reverse is available on Model 2 2081 0010)

# Woodboring Air Drills, Reversible

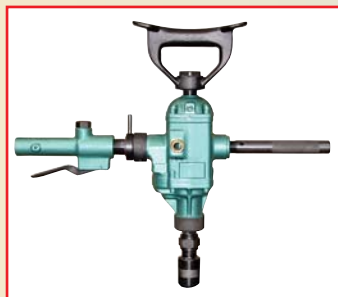
Heavy-duty power for underwater drilling and other wood boring applications



**Model 2 1924 0010**  
with self-closing roll throttle  
Up to 2" for boring wood

- Ideal for drilling wood in marine timbers, underwater use and railroad repair work
- Thrust bearing support for long life and efficient operation
- Lever throttle and durable spur gearing
- Breast plate and dead handle included
- Includes threaded exhaust port
- Use underwater with Air Tool Line Conditioner (shown below)

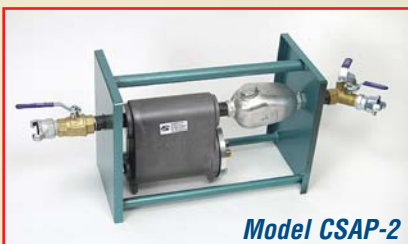
Accessories and woodboring drill bits from 1/2" dia. to 1 1/8" dia. in lengths from 12" to 36"



**Model 2 1903 0010**  
with lever throttle  
Up to 1" for boring wood

	Model 2 1903 0010	Model 2 1924 0010
Capacity in wood	1" Diameter	2" Diameter
Reversible	Yes	Yes
Power	2 HP	3 HP
Chuck Style	1/2" Woodboring	1/2" Woodboring
Spindle	Stub Taper	#2 Morse Taper
Free Speed	750 RPM	700 RPM
Recommended Hose Size	1/2"	1/2"
Overall Height	17 1/2"	18 1/2"
Weight	14 1/2 lbs.	24 3/4 lbs.
Air Inlet Thread	1/2" ID	1/2" ID
Air Exhaust Thread	1/2" NPT	1/2" NPT
Air Consumption at 90 PSI	39 CFM	50 CFM

## AirPac Extends life of pneumatic power tools



- Removes moisture and dirt from air lines; a float valve automatically ejects water and dirt
- Includes automatic oiler; prevents tools from freezing in cold environments
- Eliminates air motor downtime caused by water and dirt
- Connections for two tools; max. air flow 185 CFM



### Air Tool Line Conditioner

Underwater air tool conditioner for marine applications. Displaces moisture and inhibits rust/corrosion of air motors.

**MS 9105 – 1 quart/liter**

# Wet/Dry Vacuum Cleaner

Connect Electric Tools up to 15 AMPS  
Can Be Used With or Without Filter Bags



**MODEL CS 1225**

With Automatic Pulse Filter Cleaning System  
and Outlet for Electric Power Tools

- Electromagnetic Pulse Cleaning System maintains maximum airflow and suction with automatic filter vibration.
- "Power Take Off" outlet activates the vacuum ON/OFF from the power tool switch. Includes a 7 second shut-off delay to clean any dust in the hose.
- 4 Modes of operation: regular vacuum; power tool activation; auto-clean and auto-clean with power tool activation.
- 99.93% filtration efficiency of particles of 0.3 microns.
- Wet vacuuming capability with sensor for automatic shut off to protect motor and filters.
- Includes a 15' hose and 25' power cord for easy portability on jobsite.

Specifications	
Power	11 Amps / 120 V
Max. Tool Rating	15 Amps
Air Flow	130 CFM
Water Lift	98 Inches
Filter Area	9.25 Sq. Ft.
Canister Capacity	6.6 gallons
Dust Volume Capacity	4.2 gallons
Weight	24.3 lbs.

**Standard Equipment includes:**  
2 Filters (P/N 416069), 15' Hose,  
Tool Adapter and 25' Power Cord

**Accessories:**

**P/N 416014**

Filter Bags

**P/N 072401**

Cleaning Kit (including wands, nozzles and hose)



**Electromagnetic Pulse Filter Cleaning System** vibrates both filters to remove dust. Cleaning can be activated automatically or manually. This maximizes suction and doubles filter life.

## CS UNITEC, Inc.

22 Harbor Avenue, Norwalk, CT 06850

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Website: [www.csunitec.com](http://www.csunitec.com) E-Mail: [info@csunitec.com](mailto:info@csunitec.com)



# Dust Extraction Vacuum Wet or Dry

**Dust Extraction System for Power Tools  
Collects concrete dust, concrete slurry,  
job site debris and more**

CS Unitec's CS 1500 wet/dry dust extraction vacuum provides a clean, dust-free environment. The "Power Take Off" outlet activates the vacuum ON/OFF from the power tool switch. The Electromagnetic Pulse Filter Cleaning System automatically cleans the filters to maximize air flow, dust collection and suction power. The CS 1500 has a large tank capacity of 13 gallons.

**The versatile CS 1500 works in 4 ways:**

- Without filter bag – dust goes directly into tank
- With plastic filter bag for concrete and masonry dust
- With paper filter bag for normal dust and soot
- With slurry filter bag to capture concrete slurry from wet drilling, sawing and grinding



**Industry's  
1st Vacuum  
To Use  
Plastic Filter Bags**

**Model  
CS 1500**



**Three Filter Bag Options:  
Plastic, Paper and Slurry**

*For more information on the CS 1500, please see reverse.*



**Right: Back of CS 1500 with optional Cleaning Kit**



**Left: Y Splitter for two tools (included with CS 1500 K)**



**Right: Optional Vacuum Accessories and Cleaning Kit**

<b>CS 1500 Dust Extraction System</b>	
Wet or dry, 13 gal. capacity with three 10-gallon plastic filter bags and guide handle	
CS 1500	includes accessories for one tool
CS 1500 K	includes accessories for two tools
Optional Equipment	
Plastic Filter Bags, 5-pack	421742
Paper Filter Bags, 5-pack	416021
Slurry Filter Bags, 3-pack	420592
Filter Cartridge, 2-pack	416069
HEPA Filter Cartridge, 2-pack	419190
Cleaning Kit (wands, hose, crevice tool, floor cleaning tool)	072401

*Note: Specifications subject to change. Refer to Owner's Manual for operating instructions.*

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**Versatile, Dependable Dust Extraction System for Power Tools.  
Collects concrete dust, concrete slurry, job site debris and more.**

## The CS 1500 Vacuum features:

### Three Filter Bag Options; Four Ways to Use Vacuum



**No Filter Bag** – Dust goes directly into tank.



**Plastic Filter Bag** – Holds more than 20x the amount of concrete dust collected by paper filter bags. With a capacity of up to 10 gallons, plastic filter bags are ideal for fine concrete dust that would otherwise clog pores of paper bags. Tie strip closes bag to seal in dust for easy disposal. The special air guide maintains equal vacuum pressure inside and outside the bag to make it possible to use the plastic filter bags. With the largest capacity in the industry, plastic filter bags need fewer changes, saving you time and money.



**Paper Filter Bag** – For general debris collection, including normal dust and soot.

**Slurry Filter Bag** – Captures concrete slurry and allows the water to pass through the porous wall of the bag into the tank. This prevents the concrete from hardening in the tank. Slurry filter bags make for easy disposal of the concrete waste, preventing environmental pollution.

### Electromagnetic Pulse Filter Cleaning System

Automatically shakes dust from dual-filter system to maintain maximum air flow and suction power. If airflow is restricted by dirty filters, the vacuum sensor automatically activates the cleaning mode when the power tool is turned off. Manual activation is also available.

### Polyester Filters – Washable and Reusable

Save time and money – no need to carry spares. These filters are washable and reusable. Large surface area of 1,333 square inches. Standard filters (P/N 416069) capture 99.93% of all particles 0.3 microns and larger. Optional HEPA filters (P/N 419190) capture 99.9977% of all particles 0.3 microns and larger.

### Built-in Power Take-Off Socket – up to 15 Amps

Automatically turns vacuum ON/OFF from the power tool switch. Accepts 15-amp tools. When the tool is turned off, the vacuum runs for 7 seconds to clear the hose.

### Quiet Operation

Low noise level – only 69 dba.

### High Mobility and Dependability

Large wheels, locking front casters, 26-ft. power cord and removable handle allow for easy maneuverability and transport.

### No-Memory, Non-Static Heavy-Duty Hose

15' hose always maintains its shape – no kinking or knots.



**Filters mounted parallel to motor to maximize tank space. Located above dust and water levels to maintain maximum air flow and suction.**



**Power take-off socket automatically turns vacuum ON/OFF via power tool.**



**No-memory, non-static hose always maintains its shape – never any kinks or knots.**



## Water Recycling System for Power Tools, Flood Reclamation, Pond/Pool Cleaning and Wet/Dry Vacuuming

**Slurry and debris contained in filter bag – clean water passes into the tank for recycling**

The CS 2000 water recycling vacuum is ideal for contractors who use diamond core drills, masonry saws, grinders and other wet-working tools. An integrated sump pump delivers water from the tank to the tool, then the vacuum suction brings the water back to the tank and into a porous filter bag. Slurry and debris are captured and the clean water flows back into the tank for delivery back to the tool. This system saves time and allows safe, easy disposal of the slurry.

### The CS 2000 is 4 Tools in 1:

- **Portable water supply for power tools** – saves time with fewer interruptions for refilling water tanks. Keeps work site clean and traps slurry for easy waste disposal.
- **Flood vacuum cleaner** – picks up large volumes of water in a short time from flooded areas, including basements, and pumps it out of the location. Also ideal for draining water from pipes.
- **Pond and pool cleaning** – efficiently vacuums particles up to 3/8" dia., including algae, mud and foliage. The material is captured in the porous filter bag. The clear water can be pumped back into the pond/pool.
- **Universal wet/dry vacuum cleaner**



For more information on the CS 2000, please see reverse.

**Left: Integrated sump pump can recycle or discharge water.**

**Right: Vacuum System includes vacuum hose, water recycling/discharge hose, slurry filter bags and owner's manual.**



**Model CS 2000 and attachments**



CS 2000 Water Recycling/ Slurry Containment System	
Power	17 Amp, 115 VAC/60Hz, 1-phase <small>(includes 11 Amp Vac motor and 6 Amp sump pump)</small>
Water Capacity	7 gallons
Pump Output	78 GPM at ground level 10.5 GPM at 10 ft. discharge height
Water Lift	18 ft. max. discharge height
Water Pressure	14.5 PSI (pump delivery)
Air Flow	150 CFM
Canister Volume	13 gallons
Canister	Stainless steel tank with cart
Dimensions	20.5" W x 21.6" L x 39.5" H
Weight	59 lbs.
Optional Equipment	
Slurry Filter Bags, 3-pack	420592
Paper Filter Bags, 5-pack	416021
Cleaning Kit <small>(includes wands, hose, crevice tool and floor cleaning tool)</small>	072401

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Note: Specifications subject to change. Refer to Owner's Manual for operating instructions.



# Water Recycling and Slurry Containment Vacuum

*Versatile, Heavy-duty Water Recycling System for Power Tools and Other Applications.*

*Slurry and debris are captured in a porous filter bag – clean water flows into tank and can be cycled in a continuous loop or pumped out of the area.*

*The CS 2000 saves time and money, benefiting both the environment and your bottom line.*

*Work Faster*

With both a portable water supply and a continuous loop system, you will conserve water and save time normally used for refilling portable pumps.

*Work Cleaner*

The slurry containment and vacuum system keeps the work area clean and dry – spend less time cleaning up. Ideal for indoor and outdoor applications such as hospitals, office buildings, factories, patios and more.

*Work More Environmentally Friendly*

Slurry is contained in a porous filter bag, allowing for safe, easy, proper waste disposal.



*Stainless steel canister can either be tilted (above) or lifted out of cart (below).*

*Large wheels, locking front casters, 26-ft. power cord and removable handle allow for easy maneuverability and transport.*



*Two switches operate motor and pump independently.*



*Power socket for integrated sump pump.*

*The CS 2000 vacuum features:*

*Integrated Submersible Sump Pump with Replaceable Filter Sleeve*

Powerful, robust operation has a flow rate of 78 gallons per minute at level and a maximum water lift of 18 feet. Delivery is 10.5 GPM at 10 feet.



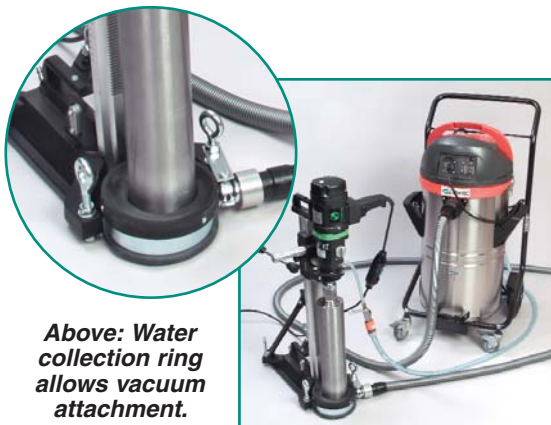
*Secure, Reliable Connections*

Power cable plug for sump pump and water recycling or discharge hose connection.



*Heavy-duty Seals*

Heavy-duty plugs seal vacuum for normal wet/dry cleaning and transport.



*Above: Water collection ring allows vacuum attachment.*

*When wet drilling, cutting or grinding, water can be continuously pumped to the work area, then vacuumed and filtered in the tank.*

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## Concrete Surface Preparation with Dust Collection Model EBS 125



- Remove paint, epoxy, glue and other hard coatings
- Smooth rough surfaces
- Clean concrete before applying new paint or coatings
- Collect dust for clean working area with CS 1225 dust extraction vacuum

The EBS 125 Concrete Grinder is held by two side handles. This ergonomic "H" design differs from traditional right angle grinders and allows the operator to finish larger surfaces with less fatigue. Additionally, the motor is set above the grinding wheel in a dust-free zone, resulting in longer tool life.

A brush shield protects against dust and enables adjustment of the working height to the wear of the diamond grinding wheel. Also, the EBS 125 has a removable front dust guard for finishing concrete floors into the corners and edges. This allows grinding right up to the wall (see below).



*With optional walk-behind cart and vacuum*

An optional walk-behind cart (P/N 37210, shown above) allows for comfortable operation of the EBS 125 Concrete Grinder. The perfect addition to virtually dust-free grinding when used with the CS 1225 vacuum (see left).

Model EBS 125 D includes one premium diamond wheel (P/N 253.115).



*Removable front dust guard*

**Standard Equipment includes:**  
Spanner wrench, open-ended wrench and metal carrying case.

**Accessories:**  
**P/N 253.115**  
5" Diamond Grinding Wheel for paint, epoxy, thermoplastics, adhesives and hard coatings.

**P/N 253.115 C**  
5" Diamond Grinding Wheel for finishing clear concrete, green concrete, mortar and masonry.

**P/N 37210**  
Walk-behind cart.

Model EBS 125	
Motor Power	14 AMP/110 Volt
Weight	9 lbs.
Load Speed	10,000 RPM

*Note: Specifications subject to change. Refer to Owner's Manual for operating instructions.*

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# Concrete Grinder 5" with Dust Extraction

## The most powerful in its class!



The EBS 1801 Concrete Grinder removes paint, epoxy, glue and other hard coatings. It can be used to prepare rough concrete and floors for application of new epoxy and/or coatings. This grinder is solidly built with a 16 AMP motor to enable a high load capacity. The EBS 1801 Concrete Grinder is especially suited for hard jobs, such as the grinding of two component adhesives.



*Removable front dust guard for grinding up to walls and edges.*

- Remove epoxy, glue, paint and other hard coatings
- Smooth rough surfaces or clean concrete before applying new paint or coatings
- Powerful 16 AMP motor with high load capacity
- Collect dust for clean working area with CS Unitec's CS 1225 or CS 1500 dust extraction vacuum

- High-performance motor is located above the diamond grinding wheel, away from dust, to extend the life of the grinder
- Brush shield allows the user to adjust the height of the grinder to the wear of the diamond wheel and protect against dust and debris
- Electronic features include soft start, overcurrent cut-off and optical overload indication
- Front edge of the dust guard is removable to allow grinding right up to the wall
- Optional walk-behind cart is available to eliminate kneeling or bending while grinding and to provide more comfort to the user (P/N 37210)
- Collect dust for clean working area with CS 1225 and CS 1500 wet/dry vacuums

### Standard Equipment includes:

Diamond Grinding Wheel and metal carrying case

### Accessories:

**P/N 253.115**

5" Diamond Grinding Wheel for epoxy, thermoplastics, paint, adhesives and hard coatings

**P/N 253.115 C**

5" Diamond Grinding Wheel for finishing clear concrete, green concrete, mortar and masonry

**P/N 37210**

Walk-behind cart

Model EBS 1801	
Motor Power	16 AMP/110 Volt
Capacity	5" diameter
Weight	12 lbs.
Load Speed	10,000 RPM

*Note: Specifications subject to change. Refer to Owner's Manual for operating instructions.*

## CS UNITEC, Inc.

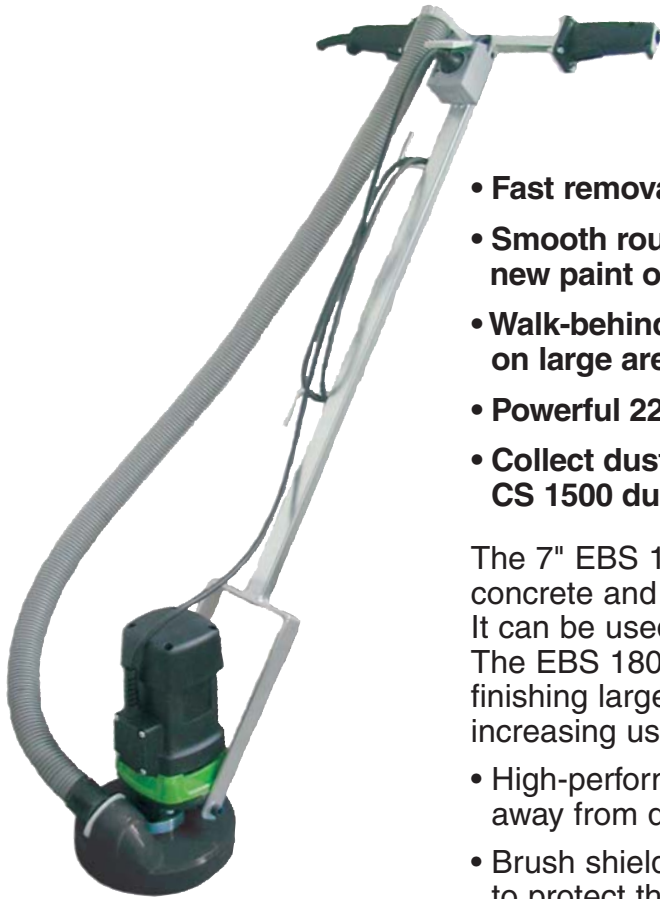
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# Concrete Floor Grinder 7" with Dust Extraction Powerful 22 AMP Motor Only 21 lbs. – Easily Portable



- Fast removal of epoxy, glue, paint and other hard coatings
- Smooth rough surfaces or clean concrete before applying new paint or coatings
- Walk-behind operation is comfortable for operator when working on large areas – eliminates kneeling and bending
- Powerful 22 AMP motor with high load capacity
- Collect dust for clean working area with CS Unitec's CS 1225 or CS 1500 dust extraction vacuum

The 7" EBS 180 walk-behind Concrete Floor Grinder prepares rough concrete and floors for the application of new epoxy and/or coatings. It can be used to remove epoxy, glue, paint and other hard coatings. The EBS 180 Concrete Floor Grinder weighs only 21 lbs. It makes finishing large areas easy by eliminating kneeling and bending, thus increasing user comfort.

- High-performance motor is located above the diamond wheel, away from dust and debris, to extend the lifetime of the grinder
- Brush shield allows the user to adjust the height of the grinder to protect the unit from surface dust, dirt and stones
- Electronic features include soft start, temperature control, overcurrent cut-off and constant speed
- Collect dust for clean working area with CS 1225 and CS 1500 wet/dry vacuums



**Standard Equipment includes:**

7" Diamond Grinding Wheel

**Accessories:**

**P/N 253.117**

7" Diamond Grinding Wheel for epoxy, adhesives, paint and hard coatings

**P/N 37112**

7" Diamond Grinding Wheel for clear (uncoated) concrete

**Model EBS 180**

Motor Power	22 AMP/110 Volt
Capacity	7" diameter
Weight	21 lbs.
Load Speed	6,000 RPM

*Note: Specifications subject to change. Refer to Owner's Manual for operating instructions.*

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# DUST EXTRACTION TOOLS CONCRETE GRINDER AND VACUUM



## **LD 1509 FR 5" Concrete Grinder**

Removes all kinds of coatings from concrete surfaces. Clean working conditions when used with an industrial vacuum. No rasping or jumping, perfect for spot jobs and edging. 11 AMP/10,000 RPM.

Wt.: 6 lbs Vacuum port: 1-1/4"

**Model LD 1509 FRD includes (1) 5" Premium Diamond Grinding Wheel (part no. 253.115)**

### **Standard Equipment:**

Clamping Flange (191.612)

Hose Clip (252.050)

### **Accessories:**

5" Diamond Grinding Wheel (253.115)

Carrying Case (252.185)



## **CS 1225 Industrial Vacuum with Automatic Filter Cleaning System**

Dust extraction vacuum – includes "power take-off" outlet for electric tools. Electromagnetic Pulse Filter Cleaning System vibrates two filters to remove dust. Ideal for concrete and masonry applications.



## **Thermo-Jet Diamond Wheel with large holes for dust extraction**

5" Thermo-Jet PN.253.115

7" Thermo-Jet PN.253.117

## ***CS UNITEC, Inc.***

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## Concrete Repair Tools with Dust Extraction



### Wall Chaser with Vacuum Port For Push and Pull Cutting Model MS 1706 FR-Set

The unique rotating motor system allows the machine to be used for pull cutting for vertical slots, and push cutting for horizontal slots.

Cuts two parallel slits up to 1.375" (35mm) deep and up to 1.2" (30mm) wide.

Motor: 11 AMP; 7,500 RPM; Wgt: 8.2 lbs.

Vacuum Port: 1-1/8" dia.

#### Model MS 1706 FR-Set includes:

(2) 5-1/2" Premium Diamond Cutting Blades (456.141).

#### Standard Equipment:

Side Handle (194.034)

SDS-Clic Quick-clamp Nut M 14 (253.049)

(5) Distance Spacers (318.914)

(2) Clamping Flanges (191.612)

Web Remover (229.253)

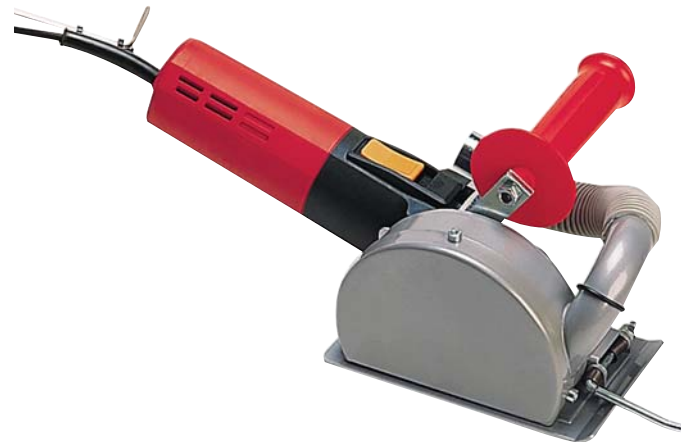
Dust Extractor Adapter (327.026)

(3) Cable Clips (252.188)

Plastic Carrying Case (327.034)

#### Accessories:

Premium Diamond Cutting Blade (456.141) 5-1/2"



### Joint Cutter with Vacuum Port For Tuck Pointing Jobs Models F 1509 FR and F 1509 FRD

Removes brittle mortar from long and generally horizontal brick joints for rapid restoration of old brick buildings. Clear view of joints.

Adjustable cutting depth to 1".

Motor: 11 AMP; 10,000 RPM; Arbor: 7/8"; Wgt: 7.5 lbs.

Vacuum Port: 1-1/8" dia.

#### Model F 1509 FRD includes:

(1) 5" Premium Diamond Blades (252.290).

#### Standard Equipment:

Holding Wrench (100.110)

Open-end Wrench (106.461)

4mm Hex Key (211.494)

(3) Cable Clips (252.188)

Metal Carrying Case (256.464)

#### Accessories:

Premium Diamond Blade (252.290) 5" x .080" x 7/8"

Premium Diamond Blade (252.291) 5" x .250" x 7/8"



### Dust Extraction System for Power Tools CS 1225 Wet/Dry Vacuum Cleaner With Automatic Filter Cleaning System

High vacuuming power (130 CFM) provides a clean, dust-free environment for the operator.

"Power Take Off" outlet activates vacuum ON/OFF from the power tool switch.

Electromagnetic Pulse Filter Cleaning System vibrates two filters to remove dust. Cleaning can be activated automatically or manually. Includes 2 filters (416069), 15' Hose, Tool Adapter and 25' Power Cord.

*Note: Specifications subject to change.*

*Refer to Owner's Manual for operating instructions.*

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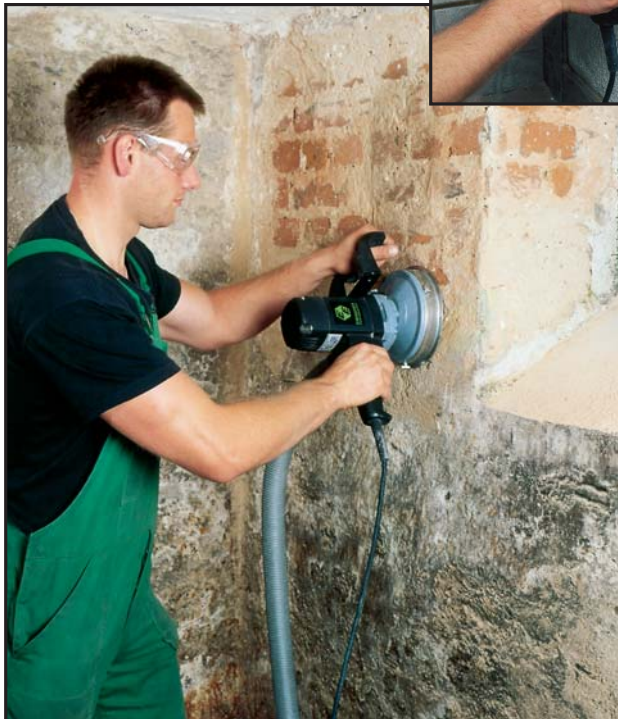


# Scouring Machine with Dust Extraction

## Extremely Versatile.

The new EPF 1502 Scouring Machine enables the user to knock off plaster, roughen concrete, level screed or remove old paint. The 13.6 AMP motor is powerful enough to scarify large surfaces. The dust guard is vertically adjustable and connects directly to a standard vacuum hose. The combination of a vertically mounted motor and dust guard extends the life of the tool by keeping dust away from the motor. The ergonomically designed tool reduces user fatigue.

This is an ideal tool for professional renovation. The EPF 1502 will roughen, descale, abrade, clean and texturize, as well as remove plaster, old paint, adhesives, plastics and resins.



**Roughen Concrete and  
Quickly Remove Plaster  
and Paint Dust-free**

### EPF 1502

Power	13.6 AMP
Rated Voltage	110 Volt
Milling Head Diameter	5"
Load Speed (min <sup>-1</sup> )	4000 RPM
Spindle	M 14
Weight	10 lbs.

*Note: Specifications subject to change.  
Refer to Owner's Manual for operating instructions.*

#### Spare Cutting Teeth Sets (1 Set = 16 pcs.)

**37421** Milling star, diagonal teeth (incl. washers)  
width 1/8" each

**37422** Milling star, straight teeth (incl. washers)  
width 1/8" each

## CS UNITEC, Inc.

22 Harbor Avenue, Norwalk, CT 06850  
Toll Free: (800) 700-5919 Tel: (203) 853-9522 Fax: (203) 853-9921  
Website: www.csunitec.com E-Mail: info@csunitec.com

## Spiked Rollers and Frames

### 9" and 18" for Epoxy Coatings, Self-levelers and Pumped Screeds

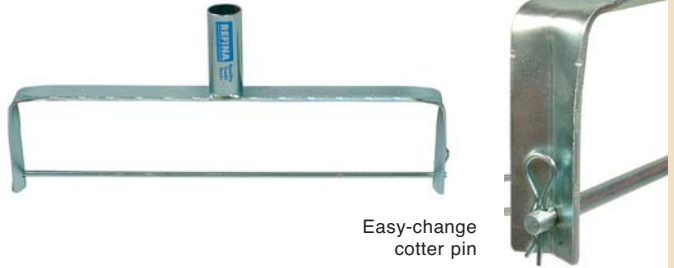
#### SPIKED ROLLERS

- Ideal for rolling out air bubbles and leveling and moving pumped floor coatings
- Also for epoxy coatings and self-levelers
- Individual, replaceable discs freely rotate
- 9" and 18" lengths available with 1-1/8" spikes; 4" overall diameter
- Also available with 5/8" spikes and other length rollers



#### ROLLER FRAMES

- Heavy-duty, double-arm construction
- Center bar is zinc coated to prevent rust
- 9" and 18" models (other lengths available)
- Bar is secured to frame with easy-change cotter pin
- For use with heavy-duty wooden handles



Order No.	Description
591209	9" Spiked Roller (1-1/8" Spike) and 9" Heavy-duty Double-arm Roller Frame Set
591218	18" Spiked Roller (1-1/8" Spike) and 18" Heavy-duty Double-arm Roller Frame Set
590209	9" Spiked Roller (1-1/8" Spike)
590218	18" Spiked Roller (1-1/8" Spike)
608309	9" Heavy-duty Double-arm Roller Frame (with quick release clip)
608318	18" Heavy-duty Double-arm Roller Frame (with quick release clip)

## Concrete Grinders and Dust Extraction System

### With dust extraction and walk-behind operation

#### Concrete Grinders – 5" & 7" Models

- Use hand-held or with a walk-behind cart
- Connect to vacuum for dust-free operation
- Powerful motors handle tough jobs like removing epoxy, paints and adhesives, as well as leveling and surface preparation



#### Dust Extraction Vacuum – Wet/Dry

- Vacuum for use with numerous concrete tools, including grinders, saws and power tools
- Collects concrete dust and more
- Use with or without paper, plastic and slurry filter bags
- Accommodates one or two tools (with optional Y splitter)
- Electromagnetic pulse filter cleaning system
- 99.85% filtration efficiency; HEPA filters optional
- Maintains clean, safe work environment







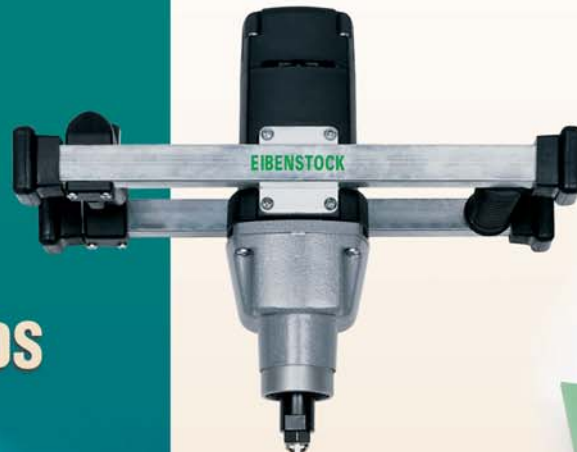
# UNITEC

EIBENSTOCK TOOLS ... *The Perfect Blend*

*Variable-speed • High-torque • Powerful • Robust*

## Electric and Pneumatic PORTABLE HAND-HELD MIXERS

**HEAVY-DUTY  
MIXERS,  
PADDLES AND  
MIXING STANDS**



**For mixing Mortar, Concrete,  
Plaster, Flooring Adhesives,  
Grout, Drywall Mud, Paint,  
Decorative Concrete Coatings  
& other Construction Materials**





From low-viscosity materials to prefab mortar, CS Unitec has a portable mixer to do the job quickly. Every CS Unitec mixer has been designed for high reliability, with the power to provide optimum blending of construction materials on the job site.

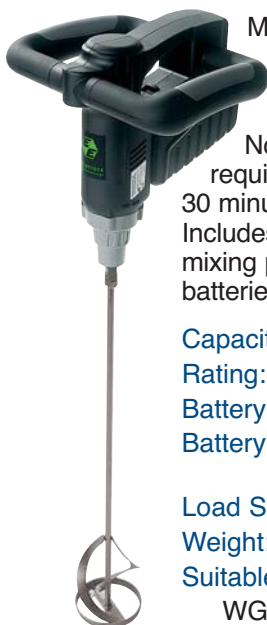
## Features That Make CS Unitec Mixers the Best Tools for the Construction Industry:

- **Soft Start and Variable Speed** – less splashing and better control
- **High-torque Motors with Specially Designed Gears** – provide maximum power. Mix quantities from 1 gallon to 200 pounds, including aggregate and other materials.
- **Special Paddles** – mix from the bottom up, eliminating injection of air for an optimum blend
- **Versatility** – can be used hand-held or with our portable mixing stands
- **Ergonomically Designed Metal Frame and Handles** – robust construction and balanced grip ensure comfortable handling
- **Unique Handle Design** – protects motor against damage when the mixer is laid down

## For Small to Medium Mixing Jobs

### Mixer AHR 24.1

*Compact, lightweight cordless portable mixer*



Mix up to 7 gallons of low- to medium-viscosity materials such as tile cement, paints, coating compounds and liquid media.

No external power source is required and mixer will run for 30 minutes on a full charge. Includes a 4" dia. RGA 100 mixing paddle, two 24V batteries and a 110V charger.

**Capacity:** 1 bag, 7 gal.

**Rating:** 24 Volt

**Battery Amp Hour:** 2.0

**Battery Life:** 30 min. on full charge (average)

**Load Speed:** 0-550 RPM

**Weight:** 6.5 lbs., including battery

**Suitable Paddles:**

WGA 100 (4" dia.)

RGA 100 (4" dia.)

### Mixer EHR 14.1 S

*The lightweight mixer with high torque*



Excellent for use by painters, tilers and contractors for mixing paint, glue, tile cement, drywall mud and other materials in small batches up to 50 lbs.

**Capacity:** 1 bag, 8 gal.

**Output:** up to 300 lbs./hour

**Power:** 8.8 Amp / 110 Volt AC

**Free Speed:** 550 RPM

**Load Speed:** 0-390 RPM

**Weight:** 6.5 lbs.

**Suitable Paddles:**

WG 120 (4.5" dia.)

RG 120 (4.5" dia.)



# For Larger Mixing Jobs

## Mixer EHR 15.1 SB

**The compact mixer for larger batches**

Easy-to-manage tool for continuous use in mixing larger amounts (up to 88 pounds) of liquid media such as paint, tile cement, plaster and mortar.

- Capacity: 2 bags, 20 gal.
- Output: up to 700 lbs./hour
- Power: 9.5 Amp / 110 Volt AC
- Free Speed: 700 RPM
- Load Speed: 0-450 RPM
- Weight: 6.75 lbs.
- Suitable Paddles:
  - WG 120 (4.5" dia.)
  - MG 120 (4.5" dia.)
  - RG 120 (4.5" dia.)



## Mixer EHR 20 R

**The standard mixer with high reliability for construction**

Ideal for medium- to high-viscosity powder and liquid materials such as finish plaster, latex, mortar, epoxy, leveling compounds and other materials in batches up to 120 pounds.

- Capacity: 3 bags, 25 gal.
- Output: up to 900 lbs./hour
- Power: 10.5 Amp / 110 Volt AC
- Free Speed: 900 RPM
- Load Speed: 250-580 RPM
- Weight: 11.5 lbs.
- Suitable Paddles:
  - WG 135 (5.4" dia.)
  - MG 140 (5.6" dia.)



## Mixer EHR 23/1.3R

**The powerful, professional unit for tough, continuous use**

A powerful motor allows mixing of up to 200 pounds of high-viscosity materials ranging from epoxy, mortars, plasters and cement to quartz-containing resins and flooring compounds, as well as insulation and other materials.

- Capacity: 5 bags, 35 gal.
- Output: up to 1800 lbs./hour
- Power: 14.5 Amp / 110 Volt AC
- Free Speed: 325 RPM
- Load Speed: 100-275 RPM
- Weight: 15 lbs.
- Suitable Paddles:
  - WG 160 (6.25" dia.)
  - MG 160 (6.25" dia.)



## Pneumatic-powered Mixers for Hazardous Environments

Three air-powered models are inherently safer for mixing paint, glue, epoxy, mortar, concrete, refractory cement and other materials in shipyards and the oil and gas industries. They can be used around water with no fear of shock or blown circuitry.



Model No.	Power	CFM @ 90 PSI	Load Speed (RPM)	Mixing Capacity	Weight	Air Connection	Suitable Paddles
7 1111 0010	1.5 HP	49 CFM	0-400	110 lbs.	14 lbs.	3/8"	MG 140, WG 135
7 1112 0010	1.5 HP	49 CFM	0-230 / 200-420	110 lbs.	15 lbs.	3/8"	MG 140, WG 135
7 1113 0010	2.2 HP	67 CFM	0-200 / 250-450	200 lbs.	23 lbs.	3/4"	MG 160, WG 160

## Automix 1801

### *The complete unit for mixing up to 110 lbs.*

Includes stand on wheels, a 17-gallon tub, paddle and a movable arm for mixing adjustments. This mixer, with a torque of 121 foot-pounds and a mechanical safety clutch, is designed for use with the heaviest of materials. It frees the operator to do other jobs while it mixes any material, regardless of viscosity, in batches up to 110 pounds. Tilttable machine arm allows easy bucket exchange. Wheeled stand includes pull bar for easy portability.

**Power:** 16 Amp / 110 Volt AC  
**Load Speed:** 70 RPM  
**Weight:** 58 lbs.  
**Special Paddle:** No. 31440 (included)



## *Twin Paddle Mixing* Save Time Mixing 2+ Component Materials

### Mixer EZR 21 S

#### *Quick, thorough mixing with twin paddles*

This dual-paddle mixer stirs heavy materials faster and more efficiently. A thorough, well-blended mixture results when mixing two or more component materials, as well as heavy products such as flooring compound, epoxies, mortars, fiber-filled cements, ceramics, granulates, pastes and putties. The blades rotate in opposite directions, eliminating counter torque and making the unit easy to handle – even while mixing the most demanding of materials. Each paddle is 4<sup>3</sup>/<sub>4</sub>" dia. with 8<sup>1</sup>/<sub>4</sub>" working width. Mix up to 200 pounds. Use hand-held or mount on RST 91 stand.

**Capacity:** 5 bags, 25 gal.  
**Output:** up to 1200 lbs./hour  
**Power:** 10.5 Amp / 110 Volt AC  
**Free Speed:** 680 RPM

**Load Speed:** 0-450 RPM  
**Weight:** 15 lbs.  
**Paddle Pair:** No. 31610000 (included)  
**Optional:** RST 91 stand and No. 3233900 adapter



### Automix 1150 Z

#### *Twin paddle mixing station for quick, homogenous mixing*

Ideal for mixing two components including epoxy resin, floor leveling materials and more. Two interlocking paddles allow very fast mixing and homogenous batches without clumps. Includes stand on wheels, a 17-gallon tub, two paddles and a movable arm for mixing adjustments. Batches up to 110 pounds can be mixed without supervision, freeing the operator to do other jobs. Paddles included.

**Power:** 10.5 Amp / 110 Volt AC  
**Load Speed:** 450 RPM  
**Weight:** 57 lbs.  
**Paddle Pair:** No. 31450 (included)





# Portable Mixing Stands Save Time by Running Mixers Independently



Optional 9.25" wide paddle shown

## Model 25GP-WD

Designed for easy setup, with no clamping required. Has rear wheels for extra portability. Ideal for use with 5-gallon pails and CS Unitec's EHR 20 R, EHR 23/1.3R or EZR 21 S mixers, as well as all CS Unitec pneumatic mixers.



Size: H-35" L-26" W-14"  
Weight: 64 lbs.



## Model RST 91

Has an adjustable swing arm and variable height adjustment, allowing use with various size pails. Easily set up. Use with EHR 20 R, EHR 23/1.3R or EZR 21 S electric mixers and all pneumatic mixers.



Size: H-65" L-28" W-20"  
Weight: 69 lbs.

# Heavy-duty Galvanized Steel Mixing Paddles Mix from the Bottom Up

Mixing paddles can be supplied in different configurations depending on the material to be mixed. They mix the product from the bottom up to prevent air bubbles from being sucked into the material. The paddles are made of robust welded steel and are galvanized for protection against corrosion and resistance against abrasion. These features make them ideal for continuous, professional use. The end result is a perfect blend for the mixing professional.

Thread Connection: 14mm

Paddle Length: All paddles are 24" (9" or 15" extensions are available)

Special Paddles in Stainless Steel are available for Food Applications.

Paddle pair for EZR 21 S: Order No. 31610000

Adapt any paddle to fit your mixer with our 5/8" 3-jaw chuck and 14mm adapter: Order No. 32142999

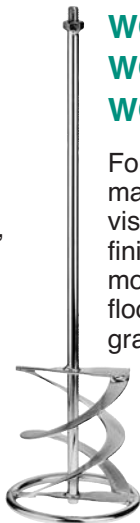
### Low Viscosity



**RG 120**  
4.5" dia.

Ideal for liquid materials with a low viscosity, including wall paints, lacquers, cement paints, chemicals, coating compounds and laitance.

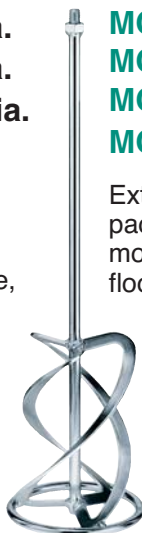
### Medium Viscosity



**WG 120** 4.5" dia.  
**WG 135** 5.4" dia.  
**WG 160** 6.25" dia.

For tenacious materials of a high viscosity such as finished plaster, mortar, gypsum, lime, floor compounds, granulates and quartz-filled epoxy resin.

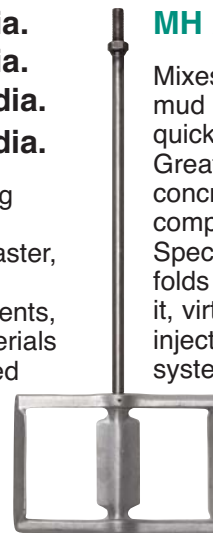
### High Viscosity



**MG 120** 4.5" dia.  
**MG 140** 5.6" dia.  
**MG 160** 6.25" dia.  
**MG 235** 9.25" dia.

Extra-robust stirring paddle for finished mortar, finished plaster, floor compounds, refractory cements, insulating materials and quartz-filled epoxy resin.

### Fold & Stir



**MH 240** 9.625" x 6.25"

Mixes all types of drywall mud and textured products quickly and completely. Great for decorative concrete coatings and comparable products. Specially designed blade folds material and then stirs it, virtually eliminating the injection of air into the system. Works in 5 to 55 gallon drums.

**UNITEC**  
... the power of innovation!®

CS UNITEC, Inc.

22 Harbor Avenue, Norwalk, CT 06850

Phone 800-700-5919 • 203-853-9522 • Fax 203-853-9921

Email info@csunitec.com • [www.csunitec.com](http://www.csunitec.com)





## Surface Finishing Tools & Accessories



**GRINDING  
SANDING  
POLISHING  
BEVELING**

High-performance Tools for  
Finishing Stainless Steel, Steel,  
Nonferrous Metals and Wood

 **UNITEC**

**ELECTRIC • PNEUMATIC**

*... the power of innovation!®*



# CS UNITEC Surface Finishing Tools & Accessories

CS UNITEC SURFACE FINISHING TOOLS, ABRASIVES & ACCESSORIES

CS Unitec offers professional power tools and abrasive accessories for surface finishing on steel, stainless steel, aluminum and other metals, as well as rigid plastics and wood.

**Innovation is the engine of efficiency!™**

Innovations in machine design, abrasive materials and production methods have led the way to:



### Hollow-core abrasives for linear grinding

The PTX Eco Smart is a surface finishing machine with a finned shaft for quick abrasive changing – simply slide on the abrasives and they secure automatically. This saves time and the abrasive wheels cost less. (Patented!)



### Quick flap disc changeover

The VARILEX® speed-controlled angle grinder is the most powerful tool in its class and allows you to change flap discs in seconds, without tools, with its EASY-LOCK system. (Patented!)

Belts with buttonhole fastening system for grinding and polishing closed pipe constructions. (Patented!)



### Important advancements in flap disc technology

- PLANTEX® high-tech hemp fiber compound (Patented!)
- TRIMTEX® for grinding inside corners; shown at left (Patented!)
- POLY-MAGIC-WHEEL for dry polishing inside corners
- MAGNUM® FLEECE TOP for surface conditioning, fine finishing and polishing

### Safer and more efficient!

The CS Unitec/Eisenblatter team is the source for flap discs and abrasives that are free of fiberglass, mineral fibers and epoxy resin. They offer superior material removal, longer service life and smoother ergonomic handling.

### Better for the environment!

The fiber in the high-tech PLANTEX®/TRIMTEX® compound is derived from the hemp plant – a sustainable raw material which counteracts greenhouse emissions as it grows. The PTX hollow-core abrasives not only improve production efficiencies, but also minimize pollution from production to waste disposal... no plastic insert!

### Better for your bottom line!

In addition to their time-saving features and high quality, flap discs and abrasives from CS Unitec can save you money – their cost of production is lower, their quality is among the best and they offer superior service life. Hollow-core abrasive wheels from CS Unitec are more affordable than traditional solid-core abrasives since they can be produced from less raw material. These new hollow-core abrasive wheels can also be used on traditional finishing machines with the aid of a simple core adapter (see page 6).



Hemp fiber is an almost ideal base material for backing plates of flap discs... and it is a renewable resource!



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### Surface Finishers

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PTX Eco Smart – electric

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LP 1503 AIR – pneumatic

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Brushes, Grinding Wheels, Belts, Abrasives, etc.

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### Speed-controlled Angle Grinders

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VARILEX® Speed-controlled Angle Grinder – 4" to 7" diameter

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### Flap Discs

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PLANTEX® – for grinding steel and stainless steel



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PLANTEX® COOL TOP – for grinding stainless steel

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TRIMTEX® – for grinding weld seams and in corners



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POLY-MAGIC-WHEEL – for dry polishing in corners

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MAGNUM® FLEECE – for conditioning, finishing and polishing

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MAGNUM® CLEAN – for pore-deep cleaning of metals

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TIGER SHARK-PLANTEX® – for grinding aluminum



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FIX HOOK & LOOP SYSTEM – elastic backing disc for finishing

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EP Diamond Discs – for grinding fiberglass and hard plastics

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EB Diamond Grinding Discs – for reduced sparking when grinding steel

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### Pipe Sanders

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LBR 1506 – weld seam grinder and pipe sander; electric or pneumatic

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BOA LRP 1503 – for polishing handrails, pipe and tubing; electric or pneumatic

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### More Angle Grinders, Sanders and Polishers

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L 1509 AIR Pneumatic Angle Grinder – 1 HP, 4-1/2" to 5" dia.

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Dust Extraction Angle Grinders/Sanders – electric and pneumatic

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Planetary Sander/Polisher

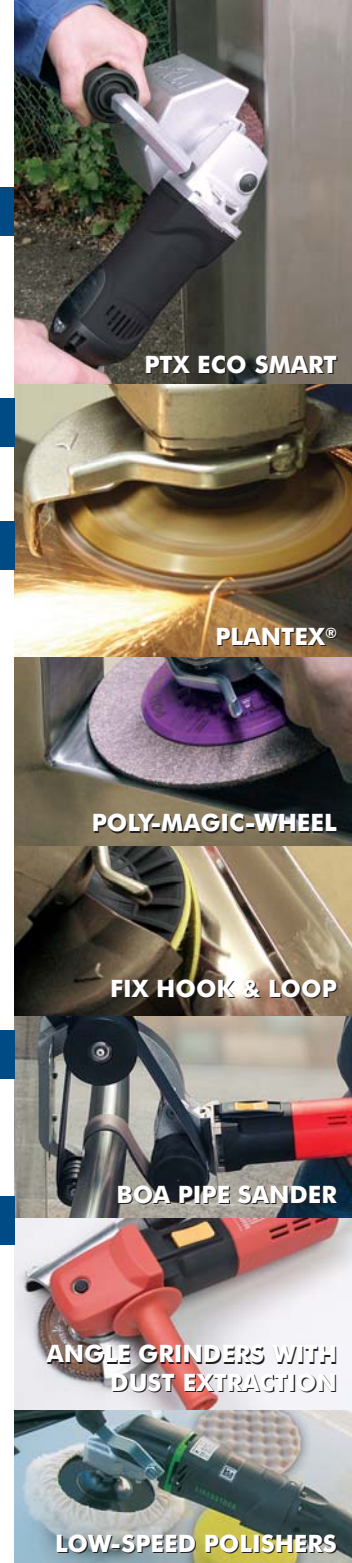
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Sheet Metal Deburring Machine

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Beveling Machines

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PTX ECO SMART

PLANTEX®

POLY-MAGIC-WHEEL

FIX HOOK & LOOP

BOA PIPE SANDER

ANGLE GRINDERS WITH DUST EXTRACTION

LOW-SPEED POLISHERS

### Safety Guidelines

Use all products according to the safety regulations of OSHA and directives by ANSI (American National Safety Institute) B7.1, European DIN EN 13743 and all other applicable international safety standards.

### Warranty

Products of CS Unitec, Inc. are warranted to be free from defects in material and workmanship for one year from date of purchase. This warranty does not apply to normal wear or products which have been abused, misused, modified or repaired by someone other than CS Unitec, Inc. or its Authorized Service Representatives.

If a product proves defective in material or workmanship within one year after purchase, return it to CS Unitec, Inc. or an Authorized Service Center, transportation prepaid. CS Unitec, Inc. will, at its option, repair or replace defective products free of charge.

CS Unitec, Inc.'s sole liability and your exclusive remedy under this warranty is limited to repair or replacement of the defective product. There are no other warranties expressed or implied and CS Unitec, Inc. shall not be liable for incidental, consequential or special damages, or expenses excepting only the cost or expense of repair or replacement as described above.

# PTX ECO SMART

The professional surface finisher for hard, continuous use.

A revolution in linear grinding! Simply slide on the abrasives and they secure themselves automatically when the machine turns. Fast and easy!



Press the spindle lock and simply slide on the abrasive wheels or brushes, turning in the correct direction onto the finned shaft. They will be secured automatically.



Even narrow abrasive wheels can be used on the PTX Eco Smart and positioned freely on the finned shaft (no spacer rings required).



Grinding in corners is easy – simply slide the abrasive wheel on the finned shaft a little towards the outside.

**SUBSTANTIAL  
COST SAVINGS  
ON ABRASIVES**



Grind closed pipe constructions using patented fleece belt with the buttonhole system.

Ergonomic design with anti-vibration handle for comfortable, fatigue-free operation

Service cover for fast carbon brush replacement



Variable-speed dial adjustment during operation



**PATENT  
PENDING!**



Satin finishing using interleaf fleece wheel.

\* Note: Shaft supplied with keyway and finned shaft adapter.

Finned shaft\*



Ergonomically positioned lockable ON/OFF switch



QUICK-LOCK cord for fast, easy attachment and replacement – for example, if the power cord is damaged (see accessories in our price list)





# Perfect finishes on large surfaces, with no shadows or streaks

*New abrasive mounting system saves time, reduces cost and eliminates vibration.*

PTX Eco Smart is a multi-functional grinding and polishing system for flat surfaces and open or closed pipe constructions. It grinds from coarse to very fine finishes and burnishes to a high-gloss finish. It enhances stainless steel, steel and nonferrous metals including aluminum, brass, bronze and copper, as well as wood and rigid plastic.

Balanced straight-line handling, high torque and electronic speed control enable the PTX to easily produce matte, satin and other decorative surfaces up to a mirror finish. Besides fine finishing, the PTX is ideal for coarse grinding to remove welds, deep scratches, oxidation, rust and paint.

PTX Eco Smart features a newly developed abrasive mounting system. This unique system allows grinding and polishing wheels to be changed in seconds, without tools or hardware. Simply slide the wheels and accessories onto the finned, rigid rubber shaft. They secure themselves automatically when the machine turns.

The finned shaft design ensures absolutely no vibrations during operation and 100% concentricity. The main savings compared to other linear grinders comes from the cost of abrasives. The elimination of an internal core means the abrasives wheels can be produced less expensively, while delivering the same high-quality results.

CS Unitec can provide you with an extensive range of abrasive tools (patent pending) and accessories to cover almost every conceivable surface finishing application.

### PTX Eco Smart Specifications

<b>Power</b>	12.27 Amp (1350 Watts) 110 Volt / 60 Hz (Also available: 230 Volt / 50 Hz)
<b>Variable speed</b>	Variable speed control from 950 to 3700 RPM with tachogenerator for constant speed, even under load
<b>Speed control dial</b>	With fine adjustment for using abrasives at optimum efficiency
<b>Wheel width</b>	up to 4" (or 6" wide abrasives)
<b>Wheel diameter</b>	up to 4-1/2"
<b>Weight</b>	7.25 lbs. (3.3 Kg)

**NOTE: We do continue to carry abrasives with core insert adapters for older LP 1503 VR model grinders and other machines. See our Price List for details.**



Slide-on grinding belt roller (Part Number 47006) is ideal for open and closed pipe constructions.



PTX Eco Smart Case Set (below, Part Number 47003a) and PTX Eco Smart Professional Kit (inset right, Part Number 47004a) are available.



A wide selection of hollow-core abrasives is available for the PTX Eco Smart. The lack of a core insert means that the abrasives are lighter, easier to use and less expensive.



# Pneumatic Surface Finisher

Save time sanding and polishing. 4" wide face is ideal for finishing stainless steel, metals, wood and synthetics.

The powerful LP 1503 AIR grinding and polishing machine produces a uniform finish fast and easy without leaving visible transitions and shadows. It is compact, lightweight and heavy duty. Ideal for graining, polishing, brushing, blending, deburring, cleaning welds, roughing and more. Easily achieve a #3, #4 or #8 finish. A wide speed range, high torque and a comprehensive line of accessories make this an essential tool for continuous-duty surface finishing.



1 HP air motor at 90 PSI

### Pneumatic LP 1503 AIR Specifications

<b>Load speed</b>	2500 RPM
<b>Motor</b>	1 HP (1/2" Air Connection)
<b>Air consumption</b>	20 CFM @ 90 PSI
<b>Weight</b>	8 lbs.

### Standard Equipment\*

4" Interleaf wheel - P/N 47312*
Finned shaft - P/N 42004*

\* Standard equipment for both PTX Eco Smart and LP 1503 AIR surface finishers.

## Accessories

### Hollow-core Shaft Adapter

Allows user to utilize more economical hollow-core abrasives on traditional surface finishers. Fits 3/4" dia. x 4" long shaft and 1/4" keyway(s).

Part Number: 42004



### PTX Professional Case (empty)

Strong, impact-resistant design with rigid foam internal compartments.

Lockable Case  
Part Number: 80002



## Special Brushes for Metals, Wood and Hard Plastics



### PTX Stranded Wire Wheels

Sturdy steel wire brush. For deburring, rust removal, roughing and cleaning metal. For brushing out soft annual rings on timber, leaving a rough rustic effect.

4" dia. x 2-7/8" wide - Part Number: 47701

4" dia. x 1" wide - Part Number: 47702



### PTX Bristle Wheel

Elastic nylon brush impregnated with abrasive grit. For roughing and deburring metal, as well as creating a rustic effect with even annual ring transitions on timber.

4" dia. x 2-7/8" wide - Part Number: 47711

4" dia. x 1" wide - Part Number: 47712



### PTX Stainless Steel Wire Wheels

Elastic stainless steel wire brush. For cleaning welds, deburring, removing rust, roughing and removing coatings.

4" dia. x 2-7/8" wide - Part Number: 47721

4" dia. x 1" wide - Part Number: 47722

### Stranded wire wheel for creating a rustic effect on wood



### PTX Fiber Wheel

Elastic fiber brush. For polishing stained wood, satin finishing, pore-deep dust removal and cleaning applications.

4" dia. x 4" wide - Part Number: 47731

# PTX Grinding Wheels for Coarse and Fine Finishing

PTX abrasives from CS Unitec are made according to high quality standards in Germany by Eisenblatter. A unique production process developed by Eisenblatter guarantees high concentricity and thus vibration-free grinding – a prerequisite for fatigue-free working and perfect surface finishes with no transitions or shadows.

**Simply try it!** You will be surprised how much smoother a PTX grinding wheel or brush wheel is.



**PTX FLEECE (Nonwoven) Wheel**  
Elastic nylon fleece impregnated with abrasives for a first-class finish. Produces shadow-free matte, satin and polished finishes. For removing oxidation on stainless steel and nonferrous metals and also suitable for smoothing wooden surfaces. Very high fleece content by fleece compression.  
Diameter: 4"  
Width: 2", 4" or 6"  
Grit: 60, 80, 180, 280, 400, 600, 900



**PTX Interleaf (Combi) Wheel**  
Nylon fleece combined with abrasive flaps for matte finishing, burnishing and removing light scratches, oxidation and handling marks on stainless steel and all metals. For removing old paint on wood while smoothing at the same time.  
Diameter: 4"  
Width: 2", 4" or 6"  
Grit: 60, 80, 180



**PTX Flap Wheel**  
With radial abrasive cloth flaps in various grit sizes for removing rust, oxidation layers, minor scratches and for the regrounding and burnishing of metals.  
Diameter: 4"  
Width: 2" or 4"  
Grit: 24, 40, 50, 60, 80, 120, 180, 240



**PTX CLEAN Wheel**  
Made of hard-textured, nonwoven fleece for cleaning and descaling welds, pore-deep removal of rust, oxidation and coatings, cleaning beams, bricks, etc. Produces an effective linear finish on stainless steel. A new production process guarantees 100% concentricity.  
Diameter: 4"  
Width: 2" or 4"  
Grit: Medium



**PTX GUM Wheel**  
Soft rubber impregnated with abrasive grit for the removal of minor scratches. Ideal for a bright, decorative linear finish on stainless steel and nonferrous metals and for smoothing wooden fibers.  
Diameter: 4"  
Width: 2" or 4"  
Grit: 60, 180

## PTX FLEECE (Nonwoven) Wheels

Part No.	Grit	Size
47411	60 grit	4" dia. x 4" wide
47412	80 grit	4" dia. x 4" wide
47413	180 grit	4" dia. x 4" wide
47414	280 grit	4" dia. x 4" wide
47415	400 grit	4" dia. x 4" wide
47416	600 grit	4" dia. x 4" wide
47417	900 grit	4" dia. x 4" wide
<hr/>		
47401	60 grit	4" dia. x 2" wide
47402	80 grit	4" dia. x 2" wide
47403	180 grit	4" dia. x 2" wide
47404	280 grit	4" dia. x 2" wide
47405	400 grit	4" dia. x 2" wide
47406	600 grit	4" dia. x 2" wide
<hr/>		
47422	80 grit	4" dia. x 6" extra wide
47423	180 grit	4" dia. x 6" extra wide

## PTX Interleaf (Combi) Wheels

Part No.	Grit	Size
47311	60 grit	4" dia. x 4" wide
47312	80 grit	4" dia. x 4" wide
47313	180 grit	4" dia. x 4" wide
<hr/>		
47301	60 grit	4" dia. x 2" wide
47302	80 grit	4" dia. x 2" wide
47303	180 grit	4" dia. x 2" wide
<hr/>		
47322	80 grit	4" dia. x 6" extra wide
47323	180 grit	4" dia. x 6" extra wide

## PTX Flap Wheels

Part No.	Grit	Size
47211	40 grit	4" dia. x 4" wide
47212	60 grit	4" dia. x 4" wide
47213	80 grit	4" dia. x 4" wide
47214	120 grit	4" dia. x 4" wide
47215	180 grit	4" dia. x 4" wide
47216	240 grit	4" dia. x 4" wide
<hr/>		
47201	24 grit	4" dia. x 2" wide
47202	40 grit	4" dia. x 2" wide
47203	50 grit	4" dia. x 2" wide
47204	60 grit	4" dia. x 2" wide
47205	80 grit	4" dia. x 2" wide
47206	120 grit	4" dia. x 2" wide
47207	180 grit	4" dia. x 2" wide
47208	240 grit	4" dia. x 2" wide

## PTX CLEAN Wheels

Part No.	Grit	Size
47511	Medium (black)	4" dia. x 4" wide
47501	Medium (black)	4" dia. x 2" wide

## PTX GUM Wheels

Part No.	Grit	Size
47611	60 grit	4" dia. x 4" wide
47612	180 grit	4" dia. x 4" wide
<hr/>		
47601	60 grit	4" dia. x 2" wide
47602	180 grit	4" dia. x 2" wide

### HOLLOW-CORE ABRASIVES HAVE MANY ADVANTAGES:

- Easy to mount – simply slide on and off
- 100% concentricity – no vibration
- Lower cost!

We continue to carry abrasives with core inserts.

See our Price List.



# Expansion Roller

Use with sanding belts, fleece and felt sleeves. The sleeves are simply pushed over the expansion roller and held securely in place by the centrifugal force. 3-1/2" dia. x 4" wide - **Part Number: 47005**

## TIPS & TRICKS

### Expansion Roller – Hard Rubber

Internal expansion slots now allow easier sleeve replacement and improved adjustment to the workpiece, as well as vibration absorption and concentricity.

**Part Number: 47005**



## Belt Sleeves for Expansion Roller



### PTX Zirconium Grinding Belt Sleeve

Made of zirconium. Removes deep scratches and grinds weld seams on metals. Far less rework is required as a result of using the time-saving linear grinding technique.

3-1/2" dia. x 4" wide  
Grit: 40, 60, 80, 120, 150, 180



### PTX "TZ" Pyramid Sleeve

New abrasive cloth with pyramid-shaped grit structure. Allows high material removal while producing a very fine finish, reducing the amount of work required when compared to grinding belt sleeves and fleece sleeves. Pyramid sleeves are ideal for pre-polishing for fine mirror finishes and for removing scratches and spot welds. Even roller scale can be removed easily.

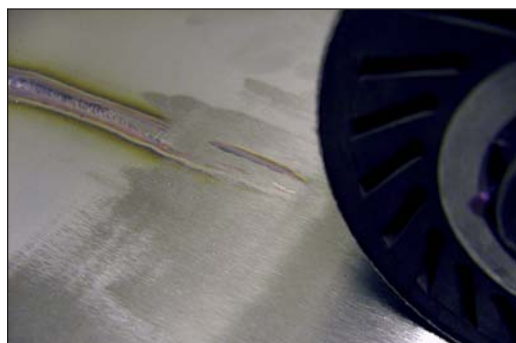
3-1/2" dia. x 4" wide  
Grit: A65/320, A45/400, A30/600, A16/1200, A06/2000



### PTX Fleece "Nonwoven" Sleeve

Nylon impregnated with abrasive grit for removing minor to medium scratch marks and oxidation coatings, matte and satin finishing and deburring applications.

3-1/2" dia. x 4" wide  
Grit: Coarse, Medium, Fine, Superfine



The expansion roller is helpful when grinding large areas and removing large welds.

### PTX Zirconium Grinding Belt Sleeves

Part No.	Grit	Size (dia. x width)	Quantity
42040	40 grit	3-1/2" x 4"	10 per pack
42060	60 grit	3-1/2" x 4"	10 per pack
42080	80 grit	3-1/2" x 4"	10 per pack
42120	120 grit	3-1/2" x 4"	10 per pack
42150	150 grit	3-1/2" x 4"	10 per pack
42180	180 grit	3-1/2" x 4"	10 per pack

### PTX "TZ" Pyramid Sleeves

Part No.	Grit	Size (dia. x width)	Quantity
42265	A65/320 grit	3-1/2" x 4"	10 per pack
42245	A45/400 grit	3-1/2" x 4"	10 per pack
42230	A30/600 grit	3-1/2" x 4"	10 per pack
42216	A16/1200 grit	3-1/2" x 4"	10 per pack
42206	A06/2000 grit	3-1/2" x 4"	10 per pack

### "TZ" PYRAMID GRIT COMPARISON TABLE

	A65	A45	A30	A16	A06
Corresponds to grit size	320	400	600	1200	2000

### PTX Fleece "Nonwoven" Sleeves

Part No.	Grit	Size (dia. x width)	Quantity
42010	coarse (brown)	3-1/2" x 4"	5 per pack
42011	medium (red)	3-1/2" x 4"	5 per pack
42012	fine (blue)	3-1/2" x 4"	5 per pack
42009	superfine (grey)	3-1/2" x 4"	5 per pack

### FLEECE COMPARISON TABLE

	Coarse (brown)	Medium (red)	Fine (blue)	Superfine (grey)
Corresponds to grit size	80	180	280	400

## TIPS & TRICKS



To remove the grinding sleeve, place the expansion roller on a round object that is slightly smaller than the roller. Then push the sleeve down slightly using both hands.



# Abrasives for Polishing to High-gloss and Mirror Finish



**PTX Felt Sleeve**  
 Made of soft merino (endless) for polishing large stainless steel and nonferrous surfaces quickly to a mirror finish. Also suitable for hard plastics. Must be used with the expansion roller.  
 3-1/2" dia. x 4" wide  
**Part Number: 42013**



**PTX SuperPolish Sleeve**  
 Revolutionary special fleece produces perfect brilliant, shadow-free mirror finishes on stainless steel and nonferrous metal surfaces using polishing compounds (white and blue) and pink polishing cream. SuperPolish fleece is absorbent, does not smear and saves significant work time. Must be used with the expansion roller.  
 3-1/2" dia. x 4" wide - **Part Number: 42013N**

## Polishing and Maintenance Products



**PTX Pre-grinding & Polishing Compound**  
 Essential for polishing all metals, including stainless steel, aluminum, etc.  
**PTX® WHITE** pre-polishing compound (23 oz.)  
**Part Number: 40013**  
**PTX® BLUE** finishing compound (23 oz.)  
**Part Number: 40014**  
 Cardboard dispenser contains 23 oz. (approx.)



**PTX Polishing Cream, Pink**  
 For finishing. Produces a perfect mirror finish on stainless steel and nonferrous metals when used with the SuperPolish Sleeve.  
**Can, 2.2 lbs. - Part Number: 40015**  
**Miniature tube, 2 oz. (approx.) - Part Number: 40015T**



**PTX Lime (noncaustic)**  
 For removing cream and compound residues. Scatter on the surface, and wipe off with a microfiber cloth.  
**Can, 2.2 lbs. - Part Number: 40016**  
**Aluminum scatter container - P/N: 4002A**



**Microfiber Cloths**  
 For pore-deep cleaning and even distribution of maintenance products and polishes. Our microfiber cloths produce a top finish on all materials.  
**Size: 13" x 14" - Part Number: 40030**



**Brilliance-Clean**  
 For streak- and residue-free cleaning of all surfaces, including stainless steel, steel, aluminum, brass and copper. Brilliance-Clean is not harmful to plastics, wood or coated surfaces. It removes fingerprints, dust, compound residue, minor oil and grease marks and adhesive residue effortlessly. Evaporates quickly without leaving any residue on the surface.  
**Canister (including spray bottle), 1.3 gal. - P/N: 40051**  
**Spray bottle, 17 oz. - Part Number: 40050**



**POLY Protection (oil film)**  
 For cleaning and preserving finished and polished stainless steel and nonferrous metal surfaces. Protects against shadows and finger and water marks for a long time. Spray on and rub off with a microfiber cloth. Produces a darker effect on finished surfaces. Also suitable for food-grade and outdoor use.  
**Canister (including spray bottle), 1.3 gal. - P/N: 40012**  
**Spray bottle, 17 oz. - Part Number: 40011**



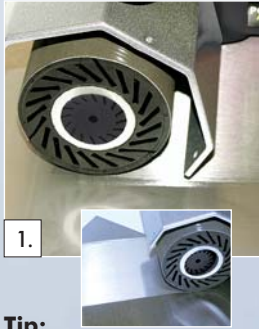
**INOX-Protect (hard sealant)**  
 Protects finished and polished metal surfaces (stainless steel, steel, aluminum, brass, copper, etc.) with a clear, dry adhesive film. Removes fingerprints and other dirt.  
**Canister (including spray bottle), 1.3 gal. - P/N: 40041**  
**Spray bottle, 17 oz. - Part Number: 40040**



## ↘ TIPS & TRICKS

### A perfect mirror finish on stainless steel and nonferrous metals.

The newly developed grinding and polishing system, featuring special "TZ" Pyramid and SuperPolish fabrics from CS Unitec, produces a perfect mirror finish quickly and in just a few steps.



**1.**

**Tip:** When grinding with "TZ" Pyramid abrasives, you must also move longitudinal and diagonally to the working direction to ensure that the material is removed evenly.

**Step 1**  
Prepare with "TZ" Pyramid sleeve A 45 (Gr 400) or A 65 (Gr 320) to remove roller scale, scratches and minor unevenness. Then rework with "TZ" Pyramid A 30 (Gr 600) and finish with A 16 (Gr 1200). We recommend that you prepare lower-quality stainless steel (with minor imperfections, etc.) or very hard material with A 06 (Gr 2000).

**Step 2**  
Use the yellow SuperPolish sleeve for the main polishing process in conjunction with preparation and finishing compound.

**Important:**  
After each step, remove the compound residue from the workpiece with PTX Lime and a microfiber cloth.

**Step 3**  
Finally, use the yellow SuperPolish sleeve together with the finish polishing cream. This time, only polish in a single direction.

**The result...  
a brilliant mirror finish!**



**3.**

**Tip:** With the pre-polishing compound you should also work longitudinal and diagonally to the working direction. This is not necessary for working with the finish compound and polishing cream.



**2.**

### Maintain and protect finished or polished stainless steel surfaces.

Compound and cream residues can be removed using **PTX Lime**. Simply scatter on the lime and wipe it off using a microfiber cloth.

Compound residues, fingerprints, dust, minor oil and grease marks and adhesive residue can be removed effortlessly with **Brilliance-Clean**. Any residue will evaporate immediately.



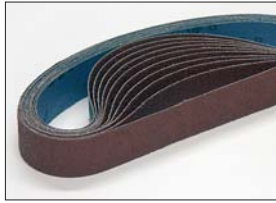
To protect finished or polished metal surfaces, spray **INOX-Protect** on the surface, rub off with a microfiber cloth, wipe the surface dry and then polish briefly. The surface will be protected by a dry, invisible film for several weeks. Polished finishes will not be darkened by this product.



# Abrasives for Pipe Constructions – Open or Closed



**PTX Grinding Belt Roller with stainless steel flanges**  
For grinding, fleece, SuperPolish and felt belts. The belt roller is made of wear-resistant soft Vulculan with stainless steel discs on the sides. The surface is grooved to ensure that the abrasive belt does not slip.  
Diameter: 3.5" x 2.8" **Part Number: 47006**



**PTX Grinding Belt in high-quality aluminum oxide (closed)**  
For coarse and initial grinding, rust removal and smoothing round metal pipes. For use with grinding belt rollers. For use on closed pipe constructions, see TIPS & TRICKS below. **Dimensions: 1.2" x 24"**  
**Grit: 40, 60, 80, 120, 150, 180, 240**  
See ordering information at right.



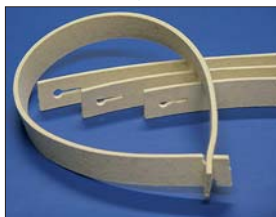
**PTX "TZ" Pyramid Belt (closed)**  
New abrasive fabric with pyramid-shaped grit structure for removing scratches, roller scale and spot welds. "TZ" Pyramid belts allow high material removal while producing a very fine finish. They are ideal for the initial grinding before polishing to a mirror finish. Because the grit fineness is increased slowly, it is possible to omit several operations. For

use with grinding belt rollers. For use on closed pipe constructions, see TIPS & TRICKS below. **Dimensions: 1.2" x 24"**; **Grit: A65, A45, A30, A16, A06**  
See ordering information at right.



**PTX Fleece Nonwoven Belt (open)**  
Buttonhole fastening system for fine grinding and pre-polishing on open and closed pipe constructions and handrails. The fleece belt can be opened and closed as often as necessary. For use with grinding belt rollers. International patent and design protected.  
**Dimensions: 1.2" x 26"**  
**Grit: coarse, medium, fine, superfine**  
See ordering information at right.

↑  
With buttonhole –  
**PATENTED!**  
↓



**PTX Felt Belt (open)**  
Made of merino felt with buttonhole fastening system for polishing work on open and closed pipe constructions and handrails. The polishing belt can be opened and closed as often as necessary. For use with grinding belt rollers and our polishing compounds and creams. Use a separate felt belt for each compound and cream grit. Do not use compounds with different grits on felt. International patent and design protected.

**Dimensions: 1.2" x 26"**; **Part Number: 49004**



**PTX Special Adhesive Tape**  
With glass fabric insert for joining grinding belts. Strong, heat-resistant adhesive force. For joining PTX grinding and "TZ" Pyramid belts for use on closed pipe constructions. Affix the adhesive tape over the entire length of the grinding belt, overlapping approximately 370°.  
**Dimensions: 1" x 165'** **Part Number: 49000**



**PTX SuperPolish Belt (closed)**  
For a perfect mirror finish on pipe constructions and handrails. SuperPolish is a new, special micro fleece that produces a perfect, brilliant mirror finish on stainless steel and nonferrous metals. Smears and shadows are eliminated

when used with our polishing compounds (white and blue) and pink cream. SuperPolish is absorbent and saves lots of work time. For use with grinding belt rollers.

**Dimensions: 1.2" x 26"** (not available with buttonhole fastening system)  
**Part Number: 49004N**

## PTX Grinding Belts (Aluminum Oxide)

Part No.	Grit	Size (width x length)	Quantity
49040	40 grit	1.2" x 24"	10 per pack
49060	60 grit	1.2" x 24"	10 per pack
49080	80 grit	1.2" x 24"	10 per pack
49120	120 grit	1.2" x 24"	10 per pack
49150	150 grit	1.2" x 24"	10 per pack
49180	180 grit	1.2" x 24"	10 per pack
49240	240 grit	1.2" x 24"	10 per pack

## PTX "TZ" Pyramid Belts

Part No.	Grit	Size (width x length)	Quantity
49365	A65/320 grit	1.2" x 24"	10 per pack
49345	A45/400 grit	1.2" x 24"	10 per pack
49330	A30/600 grit	1.2" x 24"	10 per pack
49316	A16/1200 grit	1.2" x 24"	10 per pack
49306	A06/2000 grit	1.2" x 24"	10 per pack

## PTX Fleece Nonwoven Belts (open)\*

Part No.	Grit	Size (width x length)
49001	coarse (brown)	1.2" x 26"
49002	medium (red)	1.2" x 26"
49003	fine (blue)	1.2" x 26"
49007	superfine (grey)	1.2" x 26"

\* Feature buttonhole fastening system

## TIPS & TRICKS

### Grinding and polishing closed pipe constructions

Fleece and felt belts with the patented buttonhole fastening system are ideal for working on closed pipe constructions and handrails. The grinding belt can be placed over the pipe and closed or opened again in a twist using the buttonhole system. Changing a belt is quick and easy. The belt can be opened and closed as often as required.

Closed belts such as the high-quality aluminum oxide belt or the "TZ" Pyramid belt must be cut open to work on closed pipe constructions. Place the belt over the pipe and join using our special adhesive tape (P/N 49000) over the entire length (approx. 370°).



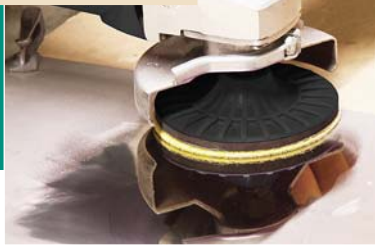


# VARILEX® WSF 1600

*Professional*

The most powerful  
speed-controlled angle  
grinder in its class.

Variable speed from 2000 to 7300 RPM, 12.27 Amp  
(1350 W) power, disc change in seconds without tools.  
For disc diameters of 4", 4-1/2", 5", 6" and 7".



VARILEX® is the ideal angle grinder for flap, grinding and cutting discs and the Hook & Loop system.

The carbon brushes are under the service cover for easy inspection and quick changing



Long-life magnetic field

Dust-tight field coil with special coating to protect against metal dust



QUICK-LOCK cord for fast, easy attachment and replacement – for example, if the power cord is damaged (see accessories in our price list)



Change discs in seconds without tools using the 5/8"-11 spindle and EASY-LOCK system (Patented!)



Easy speed control during operation



**Very powerful and infinitely adjustable**

New ergonomic design for comfortable, fatigue-free working

Much lower electromagnetic interference for the user due to the separation of the armature/field package and handle in the design

5/8"-11 UNC spindle thread



*Safety Notice: Always use the protective wheel guard and follow all applicable safety instructions and regulations.*

# The most powerful single-handed angle grinder in its class

The VARILEX® boasts a powerful motor up to 12.27 Amp, 1350 W that has been designed and developed for heavy industrial use. The speed is infinitely adjustable between 2000 and 7300 RPM. A tachogenerator keeps the speed constant, even when the grinder is operating at full load.

Sensitive variable-speed control makes the VARILEX® ideal for use with both flap discs and grinding and cutting wheels. This feature:

- Doubles the service life of a flap disc
- Prevents glazing of the disc and heat deformation on the workpiece
- Drastically reduces the noise level

The VARILEX® differs from a conventional angle grinder in its ability to change discs in seconds, without tools, using the patented EASY-LOCK clamping nut and spindle lock. It also offers:

- Optimal speed setting for a range of grinding and polishing tools, yielding perfect results every time
- A balanced handle that ensures fatigue-free grinding

### VARILEX® WSF 1600 Professional Specifications

<b>Power</b>	12.27 Amp (1350 Watts) 110 Volt / 60 Hz (Also available: 230 Volt / 50 Hz)
<b>Variable speed</b>	Infinitely adjustable from 2000 to 7300 RPM
<b>Diameters</b>	4" to 7"
<b>Spindle thread</b>	5/8"-11 UNC
<b>Arbor size</b>	7/8"
<b>Weight</b>	5.2 lbs.

### Use with various discs and safety guards

Available with safety guards (5", 6" and 7") for use with various-size grinding discs from 4" to 7" diameter (typical disc diameters are 4", 4-1/2", 5", 6" and 7").

### EASY-LOCK Clamping System



Using the EASY-LOCK clamping nut, you can change any CS Unitec/Eisenblatter abrasive on an angle grinder in a matter of seconds – without tools!

## Kit sets for VARILEX® WSF 1600 Professional angle grinders



**Basic Starter Kit** in a case, includes: VARILEX® angle grinder, PLANTEX® discs and TRIMTEX® discs. **Part Number: 80053**



**FIX Test Kit**  
FIX Hook & Loop backing disc with PUR foam, FIX fleece discs, FIX SuperPolish discs, FIX TZ Pyramid disc, mini polishing compounds and lime powder in a practical dispenser. **Part Number: 80051u**

The VARILEX® is not designed for continuous use at low speed for polishing paint in the automotive trade.

## TIPS & TRICKS



**Polish stainless steel to a mirror finish with the VARILEX® WSF 1600 Professional**

**(1) Initial grinding** (remove scratches and roller scale, level welds) with TZ Pyramid disc A45 (grit 400) or A65 (grit 320). Finish with TZ Pyramid disc A30 (grit 600) and A16 (grit 1200) (→ page 25)

**(2) Main polish** with SuperPolish disc and white polishing compound, then with blue polishing compound. Important: Use a separate disc for each compound grit.

**(3) Mirror finish** with SuperPolish disc and pink polishing cream (→ page 9)



# FLAP DISCS

Longer, faster  
and better grinding

**CS Unitec...**  
*Powered by  
Eisenblatter*



## Unbeatable technology and performance

Eisenblatter developed the first flap discs for high-speed angle grinders at the end of the 1970s. With more than 30 years of experience in the production of flap discs, Eisenblatter offers unbeatable technology and is now one of the leading manufacturers of flap discs in the world. In terms of material removal capacity, service life and grinding quality, the flap discs that bear the brands TRIMTEX® and TIGER SHARK-PLANTEX® – plus the newest development, PLANTEX®, made of hemp fiber high-tech compound – are among the best in the world.

### Top of the class in material removal, service life and quality

The performance and service life of a flap disc are not only dependent on the abrasive fabric used, but above all on the correct combination of elastic backing material; grit mixtures on the flaps; the angle at which the flap is held against the material; hard pressing; gluing system; and more. These considerations are part of what sets CS Unitec / Eisenblatter apart from the rest – not all flap discs are the same!

### Good for the environment and better for your health

Great care is taken to select raw materials that are environmentally sound and user friendly. Commonly used materials such as fiberglass, mineral fibers and epoxy resins are avoided in favor of sustainable raw materials such as hemp for the discs' backing plates. A patented, revolutionary elastic adhesive mounting system for the abrasive fabric flaps further contributes to the safety, performance, service life and user friendliness of CS Unitec / Eisenblatter flap discs. Our discs also considerably reduce vibration and noise while grinding.

### Unique patented production process

Completely new production technologies have been developed to manufacture our high-quality flap discs. The adhesion of the flaps to the backing disc is achieved using a patented, revolutionary adhesive system. In contrast to many rival products, at Eisenblatter the flaps are pressed on to the backing disc over their full area – throughout the entire hardening process – to produce a solid, compact and vibration-stable abrasive. This also gives added support to the grits and holds them firmly in their mounting, considerably extending the service life of the grinding discs.

**Standard and endurance tests ensure quality and play an essential role in progressive new developments.**

### Speed test

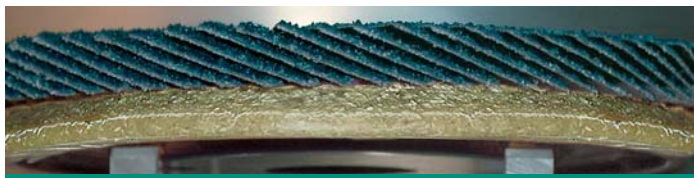
Grinding discs are tested on a centrifugal test machine to ensure that they can withstand the sort of speeds that are required for grinding work. The test system can test discs at speeds of up to 30,000 RPM.

### Endurance grinding test

Endurance tests are conducted to measure the material removal and service life of flap discs. New fabrics are tested to ensure their suitability and their grinding properties on various materials.

**Compliant with American and German standards set by ANSI B7.1 and DIN 13743.**





CS Unitec / Eisenblatter Flap Disc



Standard Flap Disc

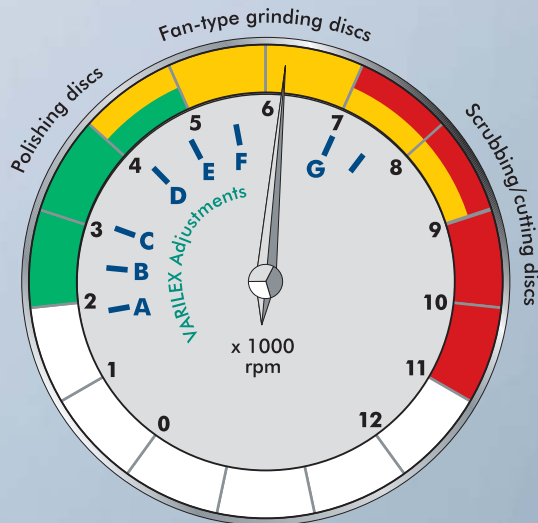
### A clear difference

These pictures show the clear difference between a CS Unitec / Eisenblatter flap disc with hard-pressed flaps (top) and a standard flap disc with fiberglass backing and unpressed flaps (bottom). The poorly pressed disc tends to "chatter" during the grinding process, generating vibrations and resulting in the grit pulling away from the mounting prematurely. This results in irregular grinding, poor grinding capacity, short service life and potential flap tearing.

## TIPS & TRICKS

### Check the speed

The right speed increases the service life of flap discs by up to 100% – a major factor in ensuring a low-cost workflow. Operating flap discs between 5000 and 8000 RPM sets the table for optimal grinding capacity and service life. Powerful, speed-controlled angle grinders such as the VARILEX® WSF 1600 Professional (see page 12) are ideal for working with flap discs.



Recommended speeds for maximum flap disc service life and economy:

4" diameter:	9000 – 11,000 RPM
4-1/2" diameter:	7000 – 9000 RPM
5" diameter:	6000 – 8000 RPM
6" diameter:	5000 – 7000 RPM
7" diameter:	4000 – 6000 RPM

## Grinding & Polishing Discs



### PLANTEX®

Flap discs for grinding steel and stainless steel, with hemp/polypropylene backing.

See page 16



### MAGNUM® CLEAN

For pore-deep cleaning of metals. See page 22



### TIGER SHARK-PLANTEX®

Specially designed for grinding aluminum.

See page 23



### FIX HOOK & LOOP SYSTEM

Highly elastic backing disc for outstanding finish quality.

See page 24



### EP DIAMOND DISCS

For fiberglass and plastics.

See page 26



### REDUCED SPARKING

EB diamond wheels reduce sparking. See page 27



### PLANTEX® COOL TOP

Provides additional cooling to improve grinding performance and service life for stainless steel. See page 18



### TRIMTEX®

For weld seams and spots in corners, flanges and on flat surfaces. See page 19



### POLY-MAGIC-WHEEL

Ideal for dry polishing in corners. See page 20



### MAGNUM® FLEECE

For surface conditioning, fine finishing and polishing. See page 21

# PLANTEX®

## High-tech Compound

Steel/Stainless Steel

### A quantum leap in flap disc technology



PLANTEX® offers important advances in grinding performance, service life, protection for the environment and personal safety.

The development of the new PLANTEX® high-tech compound has resulted in the production of the first flap discs in the world with a backing plate made of natural hemp, with polypropylene used to bind it. In addition to excellent material abrasion and a long service life, the discs offer maximum operator safety, protection of natural resources and environmental friendliness.

This new composite material (hemp and polypropylene) minimizes pollution from production to waste disposal. Even the polypropylene binding material combusts to approximately 1% carbon when disposed of by thermal methods, producing almost zero residue. Polypropylene is physiologically safe and is used in automotive engineering (interior) and medical technology for common items such as syringes, cannulae and infusion bottles. As a result of its fiber structure, the hemp fiber offers excellent tearing strength values. The superior strength values of this high-tech compound are achieved through a patented new treatment ("impact method") for hemp fibers.

Hemp fiber high-tech compound is an almost ideal base material for flap disc backing plates – it is elastic, heat-absorbent (for low grinding temperatures), very easy to trim, safe to use and easy to dispose of. The cavities of the hemp fiber structure, in conjunction with polypropylene, have a highly insulating, damping and noise-reducing effect, thus enhancing the safety features of the discs.



Made in Germany

**PATENTED!**

# PLANTEX®

## Hightech-Compound

CS Unitec...  
Powered by  
Eisenblatter

### Safer working conditions

- No fiberglass, no mineral fibers, no epoxy resin
- Easy to trim, safe to use, easy to dispose of

### Earth friendly

- Minimizes pollution, from production to disposal
- Hemp plant counteracts greenhouse effect

### Competitively priced

- Lower cost of production
- Superior service life; 100% utilization



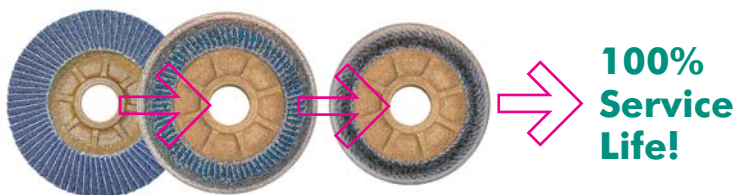
The high-tech compound material used for the PLANTEX® flap disc is perfectly safe. The backing plate is trimmed automatically during the grinding process or can be trimmed manually using cutting tools. The CO<sub>2</sub> and energy balance are also impressive. During its growth, 1 ton of hemp converts approximately 2 tons of carbon dioxide into oxygen by means of photosynthesis. Hemp therefore plays a beneficial role in counteracting the greenhouse effect.



Trimming with cutting tools produces soft, harmless chips that can be disposed of as domestic waste (smell is similar to wood chips).

### Grinding down to the last fraction of an inch

The backing plate used on PLANTEX® flap discs reduces in diameter automatically during grinding. It can also be trimmed with cutting tools, a process that is simple and straightforward. The PLANTEX® flap disc can be used down to the last flap of the abrading fabric – and saves you money in the process!



Use down to the last millimeter by automatic trimming during grinding or trimming using cutting tools on a sharp steel edge.

#### PLANTEX® Specifications

<b>Dimensions</b>	Diameter: 4", 4-1/2", 5", 7"
<b>Max. speed</b>	13,300 RPM for 4-1/2" diameter
<b>Ideal speed</b>	5000 to 8000 RPM
<b>Complies with</b>	ANSI B7.1, 260 ft./sec. DIN EN 13743
<b>Grits</b>	40, 60, 80, 120
<b>Arbor size</b>	5/8" or 7/8"

Ordering information follows on page 18.

## PLANTEX® – features to convince everybody!

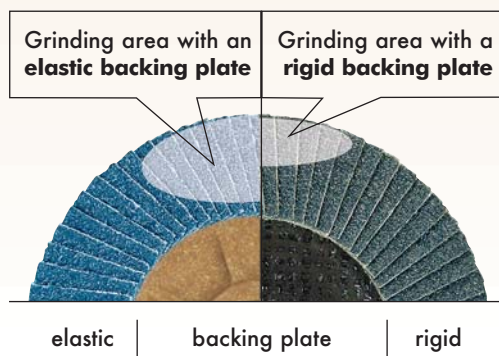


- Superior material abrasion and service life due to the discs' springy elasticity and 100% pure zirconium.
- Self-trimming and very easy to cut – the backing plate reduces in size automatically during the grinding process.
- Adjusts better to the surface of the workpiece during grinding.
- Absorbs vibration and noise due to its high fiber content.
- Heat-absorbent high-tech compound (with hollow fiber insulation) reduces the temperature during grinding.
- High strength, yet lightweight.
- High shape stability while maintaining elasticity.
- High-tech compound is resistant to most chemicals.
- Made of a sustainable raw material – protects valuable natural resources.
- The backing plate can be disposed of safely and easily (polypropylene binding combusts to approx. 1% carbon).
- Hemp provides good energy and CO<sub>2</sub> balance.
- Outstanding value: PLANTEX® costs no more than a medium-quality conventional flap disc.

## The clever ones give way!



The fiber substrate of the PLANTEX® high-tech compound gives it absorbent, spring-like properties that enhance grinding performance. This elasticity provides a greater contact surface area with the workpiece (more grit is used) that results in more material being abraded. The material removal capacity is therefore higher. The larger contact surface area also dissipates more heat, making the grinding work cooler – the workpiece does not suffer smearing and the abrasive fabric does not burn.







# PLANTEX® COOL TOP®

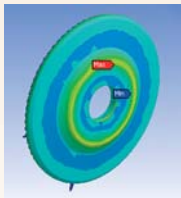
Flap disc with cool performance for grinding stainless steel

The PLANTEX® high-tech compound is becoming the standard flap disc for many companies. It is fiberglass free and provides excellent performance and service life. PLANTEX® also protects the environment and precious resources. These are good reasons for Eisenblatter / CS Unitec to continue to develop and improve the PLANTEX® high-tech compound.

**The result:**

**The PLANTEX® COOL TOP® high-tech compound has been specifically developed for grinding stainless steel.**

A new abrasive fabric with additional top-size coating improves grinding performance and service life and also provides additional cooling. Discs can be changed in seconds, without tools, using the EASY-LOCK clamping nut.



**Strength & safety with FEM**

The backing plate for the PLANTEX® high-tech compound is calculated using the finite element method (FEM). That ensures that it provides the optimal strength and safety properties, while minimizing material use.

Like all flap discs from Eisenblatter, PLANTEX® flap discs are approved for 260 ft./sec. to DIN EN 13743 and have been approved by the MPA (Material Testing Institute) in Hanover and by the BGIA (Professional Association Institute for Industrial Safety). PLANTEX® additionally complies with ANSI standard B7.1.

**PLANTEX® COOL TOP® Specifications**

<b>Dimensions</b>	Diameter: 4", 4-1/2", 5", 7"
<b>Max. speed</b>	13,300 RPM for 4-1/2" diameter
<b>Ideal speed</b>	5000 to 8000 RPM
<b>Complies with</b>	ANSI B7.1, 260 ft./sec. DIN EN 13743
<b>Grits</b>	40, 60 (for finer grits, use PLANTEX 80 and 120)
<b>Arbor size</b>	5/8" or 7/8"

## PLANTEX® Disc Ordering Information

**PLANTEX® Ordering Information**

Part No.	Size (dia. x width x arbor)	Grit	Max. Speed	Quantity
93514	4" x 0.63" x 5/8"	40	15,000 RPM	10 pack
93516	4" x 0.63" x 5/8"	60	15,000 RPM	10 pack
93518	4" x 0.63" x 5/8"	80	15,000 RPM	10 pack
93519	4" x 0.63" x 5/8"	120	15,000 RPM	10 pack
93524	4-1/2" x 0.87" x 7/8"	40	13,300 RPM	10 pack
93526	4-1/2" x 0.87" x 7/8"	60	13,300 RPM	10 pack
93528	4-1/2" x 0.87" x 7/8"	80	13,300 RPM	10 pack
93529	4-1/2" x 0.87" x 7/8"	120	13,300 RPM	10 pack
93534	5" x 0.87" x 7/8"	40	12,200 RPM	10 pack
93536	5" x 0.87" x 7/8"	60	12,200 RPM	10 pack
93538	5" x 0.87" x 7/8"	80	12,200 RPM	10 pack
93539	5" x 0.87" x 7/8"	120	12,200 RPM	10 pack
93544	7" x 0.87" x 7/8"	40	8600 RPM	10 pack
93546	7" x 0.87" x 7/8"	60	8600 RPM	10 pack
93548	7" x 0.87" x 7/8"	80	8600 RPM	10 pack
93549	7" x 0.87" x 7/8"	120	8600 RPM	10 pack

**PLANTEX® COOL TOP® Ordering Information**

Part No.	Size (dia. x width x arbor)	Grit	Max. Speed	Quantity
93614	4" x 0.63" x 5/8"	40	15,000 RPM	10 pack
93616	4" x 0.63" x 5/8"	60	15,000 RPM	10 pack
93624	4-1/2" x 0.87" x 7/8"	40	13,300 RPM	10 pack
93626	4-1/2" x 0.87" x 7/8"	60	13,300 RPM	10 pack
93634	5" x 0.87" x 7/8"	40	12,200 RPM	10 pack
93636	5" x 0.87" x 7/8"	60	12,200 RPM	10 pack
93644	7" x 0.87" x 7/8"	40	8600 RPM	10 pack
93646	7" x 0.87" x 7/8"	60	8600 RPM	10 pack



**CS Unitec...**  
Powered by Eisenblatter

## The solution for weld seams and spot welds on a self-trimming high-tech compound backing plate.

New disc for multifunctional grinding in corners and on flanges and flat surfaces. A large number of perpendicular grinding flaps (approximately twice as many as on conventional flap discs) with small gaps between them mean that for the first time it is possible to combine different operations, drastically cutting working time and tool costs.

### Benefits:

- Extremely high number of flaps provide very long service life.
- Ideal for smoothing welds in corners and on flanges (produces clean, “soft” transitions for a perfect look).
- Multifunction discs – if the contact pressure is increased, the flaps will compress to form a package that is as aggressive as conventional flap discs. If the contact pressure is low, the various flaps create a spring effect that is ideal for finish grinding, finishing and deburring.
- Hemp backing plate is trimmed automatically while grinding.
- Open construction creates a high cooling effect that drastically reduces the grinding temperature on both the workpiece and the grinding disc.
- The new active agent composition in the abrasive fabric further reduces the surface temperature of the workpiece.
- 100% pure zirconium ensures perfect results on steel and stainless steel.
- The flat design of the backing plate allows the user to reach into awkward places.
- The spring-effect arrangement of the flaps actively prevents grinding damage on the workpiece.
- Automatically adjusts to corner shapes.

*Ideal for use on speed-controlled angle grinders.*

### TRIMTEX® Specifications

<b>Dimensions</b>	Diameter: 4-1/2", 5"
<b>Max. speed</b>	12,000 RPM for 4-1/2" dia.
<b>Ideal speed</b>	6000 to 8000 RPM
<b>Complies with</b>	ANSI B7.1, 207 ft./sec.
<b>Grits</b>	40, 60, 80
<b>Arbor size</b>	7/8"

### TRIMTEX® Ordering Information

Part No.	Size (dia. x arbor)	Grit	Max. Speed	Quantity
93704	4-1/2" x 7/8"	40	12,000 RPM	5 pack
93706	4-1/2" x 7/8"	60	12,000 RPM	5 pack
93708	4-1/2" x 7/8"	80	12,000 RPM	5 pack
93714	5" x 7/8"	40	11,000 RPM	5 pack
93716	5" x 7/8"	60	11,000 RPM	5 pack
93718	5" x 7/8"	80	11,000 RPM	5 pack



Ideal for corners and grooves (e.g. at shipyards)





# POLY-MAGIC-WHEEL

A mirror finish in corners without polishing additives (dry polishing)

The POLY-MAGIC-WHEEL is designed for finishing and dry polishing in corners, producing up to a perfect mirror finish in just two steps. These discs are made of highly compressed fleece material and are made in a sophisticated production process using compressed single flaps that are strengthened by being impregnated with foam. This special process allows considerably more abrasive material to be used than on conventionally wound "unitized wheels and discs."

The POLY-MAGIC-WHEEL is ideal for grinding and polishing bead and corner welds. It may only be used frontally.

## POLY-MAGIC-WHEEL Specifications

<b>Dimensions</b>	6-1/2" dia. x 1/2" material thickness x 7/8" arbor
<b>Max. speed</b>	5000 RPM
<b>Ideal speed</b>	3000 to 4000 RPM
<b>Grits</b>	A/80, B/900

Ideal for speed-controlled angle grinders

## POLY-MAGIC-WHEEL Ordering Information

Part No.	Grit	Usage	Qty.
96720	Grit A (80 grit)	Initial grinding & leveling welds (red)	5 pk.
96721	Grit B (900 grit)	Polishing to a perfect mirror finish (gray)	5 pk.



Ideal for  
polishing  
in corners

## TIPS & TRICKS

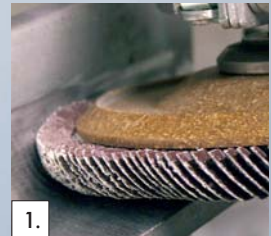
### Polishing corner welds with the POLY-MAGIC-WHEEL

Obtaining good polish quality when finishing corner welds is difficult, especially for the fabrication of railings. The POLY-MAGIC-WHEEL was designed to help you more easily produce a truly perfect finish in these applications. This highly compacted fleece disc was designed specifically for grinding and polishing bead and corner welds. The POLY-MAGIC-WHEEL disc can reduce the time required for this work to a minimum, and the result can only be described as a minor miracle.

Carry out the initial grinding and leveling of welds with the red disc, grit A (80 grit). If the weld is very coarse it is a good idea to use the TRIMTEX® disc first.

Then polish to a mirror finish using the POLY-MAGIC gray disc, grit B (900 grit). These discs are very aggressive; they save a lot of working time and the result is sensational. No polishing compounds or creams are required for polishing with the POLY-MAGIC-WHEEL (dry polish).

### Mirror finish in 3 steps:



1.

TRIMTEX® for coarse welds



2.

POLY-MAGIC-WHEEL A (80 grit)



3.

POLY-MAGIC-WHEEL B (900 grit)



# MAGNUM® TOPMIX

Increased material removal,  
longer service life

The MAGNUM® TOPMIX was developed to increase material removal during finishing while also improving service life. The 80 combination grit is much more aggressive than our MAGNUM® FLEECE TOP 80 grit (see below). Individual flaps with foamed and compressed fleece offer a much higher removal capacity, making it ideal for removing spot welds and deep scratches on stainless steel, steel and nonferrous metals. The coordinated fleece combination additionally ensures that a good finish is achieved. The MAGNUM® TOPMIX also offers excellent service life, making deburring and cleaning of cast parts and welds a breeze.

### MAGNUM® TOPMIX Specifications

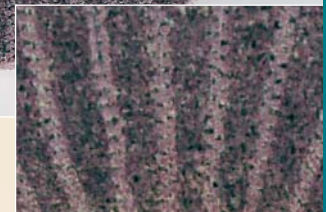
**Dimensions** 5" dia. x 5/8" fleece thickness x 7/8" arbor

**Ideal speed** 2000 to 4500 RPM

**Max. speed** 6000 RPM

**Grit** 80

*Ideal for speed-controlled angle grinders*



### MAGNUM® TOPMIX Ordering Information

Part No.	Size (dia. x thick x arbor)	Grit	Max. Speed	Qty.
96705	5" x 5/8" x 7/8"	80	6000 RPM	5 pk.

# MAGNUM® FLEECE TOP

Made of foamed, compressed-grit,  
interspersed nonwoven fleece

The MAGNUM® FLEECE TOP is a versatile fleece disc for surface conditioning, fine finishing and polishing, offering up to eight times the service life of traditional fleece and SC discs. Its range of uses is impressive. The FLEECE TOP is an ideal disc for metalworking that requires fine grinding and pre-polishing to a uniform clean finish, and it is effective at descaling and removing oxidation, scratches, rust, burrs and paint. It replaces a wire brush, abrasive paper and grinding rubbers and is self cleaning, with a special mixture that prevents glazing and loading. The foamed fleece ring is approx. 5/8" thick. This highly compressed quantity of fleece material ensures an extra-long service life.

### MAGNUM® FLEECE TOP Specifications

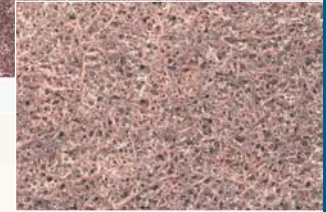
**Dimensions** 4-1/2" dia. x 5/8" fleece thickness x 7/8" arbor

**Ideal speed** 2000 to 4500 RPM

**Max. speed** 8000 RPM

**Grits** 80, 180, 280, 400, 600, 900

*Ideal for speed-controlled angle grinders*



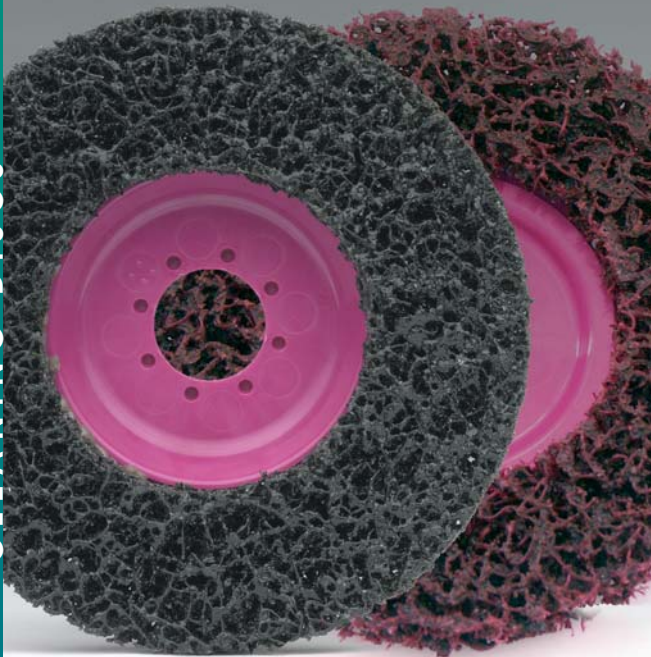
### MAGNUM® FLEECE TOP Ordering Information

Part No.	Size (dia. x thick x arbor)	Grit	Max. Speed	Qty.
96710	4-1/2" x 5/8" x 7/8"	80	8000 RPM	5 pk.
96711	4-1/2" x 5/8" x 7/8"	180	8000 RPM	5 pk.
96712	4-1/2" x 5/8" x 7/8"	280	8000 RPM	5 pk.
96713	4-1/2" x 5/8" x 7/8"	400	8000 RPM	5 pk.
96714	4-1/2" x 5/8" x 7/8"	600	8000 RPM	5 pk.
96715	4-1/2" x 5/8" x 7/8"	900	8000 RPM	5 pk.

# MAGNUM® CLEAN & MAGNUM® CLEAN PLUS

For pore-deep cleaning of metals (sand-blasting effect)

MAGNUM CLEAN® is an elastic cleaning disc for the pore-deep cleaning of metals. This elastic coarse fleece disc is interspersed with silicon carbide grit and cleans without harming the base material. The disc itself is iron-free, which means that there is no risk of corrosion. The coarse fleece material will not glaze or load, even if exposed to heavy contamination. MAGNUM CLEAN® is the ideal cleaning disc for pore-deep removal of paint, rust, scale and oil smears, as well as for cleaning and exposing without material removal. It is ideal for use in body shops (cleans thin sheet metal with no material removal) and in the automotive industry, and it is also suitable for underseal, renovating, painting and building work. MAGNUM CLEAN® is particularly good for removing paint and other coatings on wood, stone and metal (including window frames, doors and frames, furniture, house facades, graffiti, railings, fences, supports and machines).



### MAGNUM® CLEAN Specifications

<b>Dimensions</b>	5" dia. x 5/8" material thickness x 7/8" arbor
<b>Ideal speed</b>	2000 to 4500 RPM
<b>Max. speed</b>	5000 RPM
<b>Grits</b>	Medium/standard (black), extra hard (red)

Ideal for speed-controlled angle grinders

## MAGNUM® CLEAN



Hardness: Medium/Standard (black)

## MAGNUM® CLEAN PLUS



Hardness: Extra-hard (red)



### MAGNUM® CLEAN (BLACK)

Elastic cleaning disc for removing color, rust, oil stains and more

For pore-deep removal of paint, rust, scale and dirt on metals (similar effect to sandblasting), without removing the basic material. Perfect for cleaning welds on stainless steel and wood, or for removing paint and old material.



### MAGNUM® CLEAN PLUS (RED)

Elastic cleaning disc for the hardest dirt

For pore-deep removal of paint, rust, scale and dirt on metals (similar effect to sandblasting), without removing the basic material. These discs are complete without any metal, so there is no danger of corrosion. Perfect for cleaning welds on stainless steel.

### MAGNUM® CLEAN Ordering Information

Part No.	Size (dia. x thick x arbor)	Grit	Max. Speed	Qty.
96700	5" x 5/8" x 7/8"	medium (black)	5000 RPM	10 pk.
96701	5" x 5/8" x 7/8"	extra hard (red)	5000 RPM	10 pk.



Standard hardness for rust and paint.



Extra-hard for stubborn dirt.



# TIGER SHARK-PLANTEX® & KANGAROO ALU-FIX OIL

Aluminum

## The new dimension for grinding aluminum

TIGER SHARK-PLANTEX® elastic discs are unbeatable for the difficult grinding of aluminum. High material removal, reduced grinding temperature and no glazing with aluminum particles make the TIGER SHARK® the first choice for these applications. This flap disc, with its ceramic/corundum cotton abrasive fabric, also offers high grinding capacity and low tool costs for steel and nonferrous metals. The backing plate is elastic PLANTEX® earth-friendly compound and adjusts well to the shape of the workpiece. TIGER SHARK® is ideal for grinding curved surfaces and shapes, and it is often used in car body shops, car workshops and for tool making.

The excellent features of the TIGER SHARK® can be enhanced even further with the newly developed Kangaroo ALU-FIX® OIL. A quick spray on the workpiece will solve many of the problems you may have encountered while grinding aluminum in the past. Glazing is no longer necessary, the material removal rate is up to 300% higher, the finish is visibly better – and the flap disc will last around three times longer.

### TIGER SHARK-PLANTEX® Specifications

<b>Dimensions</b>	Diameter: 4", 4-1/2", 5", 7"
<b>Max. speed</b>	13,300 RPM for 4-1/2" diameter
<b>Ideal speed</b>	5000 to 8000 RPM
<b>Compliant with</b>	ANSI B7.1, 240 ft./sec. DIN EN 13743
<b>Grits</b>	40, 60, 80, 120

### TIGER SHARK-PLANTEX® Ordering Information

Order No.	Size (dia. x arbor)	Grit	Max. Speed	Quantity
93814	4" x 5/8"	40	15,000 RPM	10 pack
93816	4" x 5/8"	60	15,000 RPM	10 pack
93818	4" x 5/8"	80	15,000 RPM	10 pack
93819	4" x 5/8"	120	15,000 RPM	10 pack
93824	4-1/2" x 7/8"	40	13,300 RPM	10 pack
93826	4-1/2" x 7/8"	60	13,300 RPM	10 pack
93828	4-1/2" x 7/8"	80	13,300 RPM	10 pack
93829	4-1/2" x 7/8"	120	13,300 RPM	10 pack
93834	5" x 7/8"	40	12,200 RPM	10 pack
93836	5" x 7/8"	60	12,200 RPM	10 pack
93838	5" x 7/8"	80	12,200 RPM	10 pack
93839	5" x 7/8"	120	12,200 RPM	10 pack
93844	7" x 7/8"	40	8600 RPM	10 pack
93846	7" x 7/8"	60	8600 RPM	10 pack
93848	7" x 7/8"	80	8600 RPM	10 pack
93849	7" x 7/8"	120	8600 RPM	10 pack

### Kangaroo ALU-FIX® OIL

Spray on aluminum workpiece to improve the removal rate and increase abrasive life. Available in a 1 pint spray bottle or a 1.3 gal. canister with a spray bottle.

Part Numbers: 1-pint spray bottle - 40010  
1.3 gal. canister and spray bottle - 40010k



Unique flap discs with a PLANTEX® elastic backing disc.





**PATENTED!**

# FIX HOOK & LOOP SYSTEM

Highly elastic backing disc for previously impossible finish quality; ideal for surface conditioning and polishing up to a mirror finish

The FIX Hook & Loop system takes advantage of a flexible backing pad and allows a disc to be changed in seconds without tools.

The FIX Hook & Loop system is a good fit wherever disc flexibility and frequent changeover are important. It will save time in industrial metalworking applications such as car body shops and repair shops.

The system requires a speed-controlled angle grinder, such as the VARILEX WSF 1600 Professional. A wide range of abrasives are available for all steps leading from rough grinding up to a mirror finish.

The FIX Hook & Loop's "green" backing disc is made of natural materials. The flexibility of the abrasives allows you to achieve results similar to stationary grinding machines.



**The FIX Hook & Loop system is an essential surface finishing and polishing system for all sheet metal applications.**



**FIX Test Kit**

FIX Hook & Loop backing disc with PUR foam, FIX fleece discs, FIX SuperPolish discs, FIX TZ Pyramid disc, mini polishing compounds and lime powder in a practical dispenser. **Part Number: 80051u**



**FIX starter kit** in a case, includes: VARILEX® angle grinder, FIX backing disc, FIX fleece discs, FIX SuperPolish discs, FIX zirconium pad, mini polishing compounds and lime in a practical dispenser. **Part Number: 80050u**



*The FIX family of abrasives must be used with the FIX original backing disc.*

**Special FIX Backing Disc with PUR Foam Absorption Coating**

For use with the FIX Zirconium disc, FIX TZ Pyramid disc and FIX SuperPolish disc. The backing disc is made of elastic PUR with a special 1/4" absorption coating. Diameter: 4-1/2" with 5/8"-11 thread - **Part Number: 80115u**



**FIX Zirconium Disc**

Abrasive disc with Hook & Loop fastening and an outstanding grinding capacity. Ideal for body shops and car workshops.

Diameter: 4-1/2"; Grits: 40, 60, 80, 120

**FIX Zirconium Disc Ordering Information**

Part No.	Diameter	Grit	Quantity
80904	4-1/2"	40	50 pack
80906	4-1/2"	60	50 pack
80908	4-1/2"	80	50 pack
80909	4-1/2"	120	50 pack

# More Abrasives for the FIX Hook & Loop System



**FIX TZ Pyramid Disc**  
New abrasive fabric with pyramid-shaped grit structure. Allows high material removal while producing a very fine finish. FIX TZ Pyramid discs reduce the amount of work required compared to grinding belt sleeves and fleece sleeves and are ideal for pre-polishing for later mirror finishes and for removing scratches and spot

welds. An additional absorption coating drastically reduces the grinding temperature and protects the Hook & Loop components and the workpiece.

Diameter: 4-1/2"; Grits: A65, A45, A30, A16, A06 (see grit equivalents below)

## FIX TZ Pyramid Disc Ordering Information

Part No.	Diameter	Grit	Quantity
80932	4-1/2"	A65/320	10 pack
80940	4-1/2"	A45/400	10 pack
80960	4-1/2"	A30/600	10 pack
80970	4-1/2"	A16/1200	10 pack
80980	4-1/2"	A06/2000	10 pack



**FIX Fleece (Nonwoven) Disc**  
Versatile disc for fine surface conditioning and pre-polishing.  
Diameter: 4-1/2"  
Grits: coarse, medium, fine, superfine

## FIX Fleece (Nonwoven) Disc Ordering Information

Part No.	Diameter	Grit	Quantity
80615	4-1/2"	coarse (brown)	10 pack
80616	4-1/2"	medium (red)	10 pack
80617	4-1/2"	fine (blue)	10 pack
80618	4-1/2"	superfine (gray)	10 pack



**FIX SuperPolish Disc**  
SuperPolish is a new, special needle fleece that produces a perfect, brilliant mirror finish on stainless steel and nonferrous metals. Used with our polishing compounds (white and blue) and pink cream to avoid smears and shadows. SuperPolish is absorbent,

does not smear and saves lots of work time. A separate SuperPolish disc must be used for each compound or cream so as not to mix different compound grits.

Diameter: 4-1/2"; Thickness: 1/4"

Part Number: 80715n (10 pack)

## TIPS & TRICKS

### Perfect mirror finish on stainless steel and nonferrous metals

The new TZ Pyramid and SuperPolish discs for the FIX Hook & Loop system can be used with an angle grinder to create perfectly polished finishes on stainless steel and non-ferrous metals.

**Pre-grinding** to remove scratches and level welds using TZ Pyramid discs with grit A30.

**Fine grinding** using TZ Pyramid discs with grit A16.

These two stages prepare the surface for polishing. TZ Pyramid is an aggressive abrasive, so there is no need to slowly increase the grit fineness. Use only contact pressure to grind – the weight of the grinder is generally sufficient.

**Pre-polish** with SuperPolish disc and white polishing compound.

**Main polish** with SuperPolish disc and blue polishing compound.

**Perfect mirror finish** with SuperPolish disc and pink cream.



Use a separate SuperPolish disc for each compound and cream – the different compound grits must not be mixed. Remove compound and cream residues after each stage using POLY-PTX® lime and a microfiber cloth.





# ABRASIVE DISCS FOR FIBERGLASS

EP diamond discs are very aggressive and perform well when sanding/grinding fiberglass and hard plastics

Electro-plated (EP) diamond discs from CS Unitec are for grinding and sanding fiberglass and hard plastics. Fast working and long service life.

### EP DIAMOND DISC Specifications

<b>Dimensions</b>	Diameter: 4-1/2"
<b>Max. speed</b>	10,000 RPM
<b>Ideal speed</b>	2000 to 4000 RPM
<b>Grits</b>	30, 60, 100
<b>Arbor size</b>	5/8"-11 (7/8" optional)

### EP DIAMOND DISC Ordering Information

Order No.	Size (dia. x arbor)	Grit	Max. Speed	Qty.
DKGF5811530	4-1/2" x 5/8"-11	30	10,000 RPM	1 disc
DKGF5811580	4-1/2" x 5/8"-11	60	10,000 RPM	1 disc
DKGF58115100	4-1/2" x 5/8"-11	100	10,000 RPM	1 disc

Note: Also available with 7/8" arbor.

EP diamond disc shown in L1506 VV angle grinder with dust extraction (see page 31).



*Safety Notice: Follow all appropriate OSHA and international safety regulations for grinding fiberglass and hard plastics.*

## Grinders / Angle Grinders / Sanders with Dust Extraction

CS Unitec offers a variety of electric and pneumatic grinders and sanders that may be used in conjunction with our dust extraction vacuums. See page 31 for specifications on our L 1506 VV and VV AIR angle grinders / sanders and our CS 1500 and CS 1225 vacuums. Contact us or visit our Web site for more information on the concrete grinders shown below.



**LD 1509 FR**  
5" Angle Grinder  
(10,000 RPM)  
Perfect for spot jobs and edging on concrete surfaces.



**EBS 125 Concrete Grinder**  
(10,000 RPM)  
Perfect for concrete surface preparation and smoothing.



**CS 1500**  
Dust Extraction Vacuum



**L 1506 VV**  
Electric  
(2200 to 6800 RPM)



**L 1506 VV AIR**  
Pneumatic  
(6000 RPM)



# REDUCED SPARKING GRINDING DISCS

Designed for grinding steel, stainless steel and other materials in nuclear plants, oil and gas industries and applications where spark reduction is an important feature

Eco Brazing (EB) diamond grinding discs from CS Unitec reduce sparking by up to 1/100 of that produced by resinoid wheels, making EB diamond a better choice than resinoid for use in some hazardous environments.

- Diamond grit protrudes higher off the EB diamond disc than traditional diamond wheels, providing greater durability, longer service life and cutting freeness
- High-tensile steel backing disc reduces plate thickness for a lightweight wheel that allows for high-rotation grinding
- High yield strength makes the steel backing disc elastic, helping to ensure that operators do not grind the material by over-removal
- Reduced sparking increases the visibility of the workpiece
- The EB diamond wheel wears approximately 1% as much as a resinoid wheel, therefore significantly reducing the amount of abrasive dust emitted
- Ideal for grinding steel and stainless steel, as well as natural stone, granite, marble, fiberglass and other materials



## Benefits of reduced sparking:

- Workpiece visibility is improved, allowing more accurate grinding
- Reduced fire hazard from sparks

### EB DIAMOND DISC Specifications

<b>Dimensions</b>	Diameter: 4", 7"
<b>Max. speed</b>	13,000 RPM (4") or 8500 RPM (7")
<b>Ideal speed</b>	6000 RPM (4") or 3300 RPM (7")
<b>Grits</b>	30, 40, 50, 60, 80
<b>Arbor size</b>	7/8"

### EB DIAMOND DISC Ordering Information

Order No.	Size (dia. x arbor)	Grit	Max. Speed	Quantity
EB4007830	4" x 7/8"	30	13,000 RPM	1 disc
EB4007840	4" x 7/8"	40	13,000 RPM	1 disc
EB4007850	4" x 7/8"	50	13,000 RPM	1 disc
EB4007860	4" x 7/8"	60	13,000 RPM	1 disc
EB4007880	4" x 7/8"	80	13,000 RPM	1 disc
EB7007830	7" x 7/8"	30	8500 RPM	1 disc
EB7007840	7" x 7/8"	40	8500 RPM	1 disc
EB7007850	7" x 7/8"	50	8500 RPM	1 disc
EB7007860	7" x 7/8"	60	8500 RPM	1 disc
EB7007880	7" x 7/8"	80	8500 RPM	1 disc

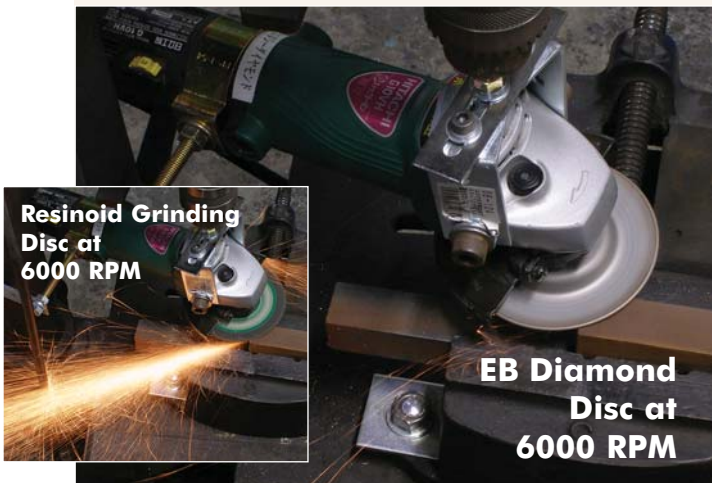
Though EB diamond discs have been shown to reduce sparking, we make no claim that sparking will be eliminated. Follow all appropriate safety regulations (ATEX, OSHA, ANSI) for all grinding applications, including those for working in hazardous environments.



**Resinoid Grinding Disc at 10,000 RPM**

**EB Diamond Disc at 10,000 RPM**

EB diamond grinding discs reduce sparking up to 1/100 of that produced by resinoid grinding wheels (inset left).



**Resinoid Grinding Disc at 6000 RPM**

**EB Diamond Disc at 6000 RPM**

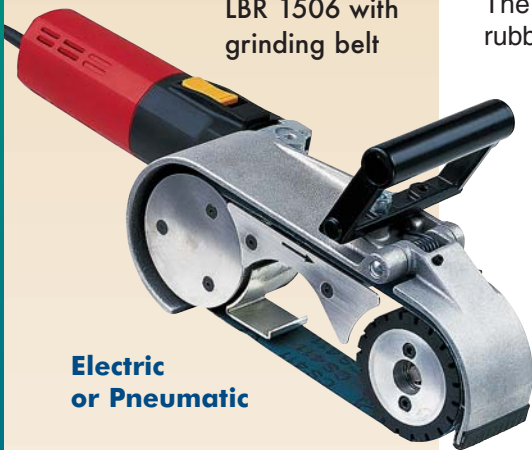
# WELD SEAM GRINDER & PIPE SANDER

*Electric or Air*

Removes welds and polishes pipe



LBR 1506 with grinding belt



**Electric or Pneumatic**

### LBR 1506 Accessories

#### Abrasive Grinding Belt (10/pack)

For grinding and surface structuring – Aluminum Zirconia

- 24" x 1-5/8", 36 grit [223.670](#)
- 24" x 1-5/8", 60 grit [223.689](#)
- 24" x 1-5/8", 120 grit [266.132](#)
- 24" x 1-5/8", 240 grit [250.610](#)

#### Abrasive Polishing Belt (3/pack)

For polishing and cleaning – Nonwoven abrasive

- 24" x 1-5/8", Coarse [250.586](#)
- 24" x 1-5/8", Medium [250.587](#)
- 24" x 1-5/8", Fine [250.588](#)

The LBR 1506 is a combination grinder and pipe belt sander. The front hard rubber contact roller drives the abrasive belt to grind flat surfaces. It removes weld seams in a straight line, without leaving edges or a wavy finish.

For sanding pipes or handrails, it is a flexible tool. The sanding belt follows every contour to grind and polish up to a high-gloss finish. The belt wraps around the pipe and requires only a few steps to polish the entire circumference. It is ideal for stainless steel, aluminum and high-quality metals.

- For sanding pipes from 3/8" to 10" diameter
- Grinds weld seams on flat surfaces – leaves no edges
- Powerful 11 Amp motor and variable-speed control from 33 to 100 ft./sec.
- Quick and easy tool-free changing of sanding belts
- Ideal for stainless steel and aluminum

### LBR 1506 Specifications

	Electric (LBR 1506 VR)	Pneumatic (LBR 1506 AIR)
<b>Belt size (L x W)</b>	24-1/3" x 1-5/8"*	
<b>Belt speed</b>	33 - 100 ft./sec.	
<b>Power</b>	11 Amp/1200 Watts	33 CFM @ 90 PSI
<b>Pipe ø max.</b>	10"	10"
<b>Weight</b>	11.25 lbs.	9 lbs.

\* Note: Exact belt size is 618mm x 40mm

### Standard Equipment

- 1 side handle - [Part No. 252.721](#)
- 1 spade-grip handle - [259.290](#)
- 1 sanding belt set, grits 60/120/240 - [1 set](#)
- 1 polishing fleece 1-5/8" x 24" (medium) - [250.587](#)
- 1 hex head wrench 5mm - [115.460](#)
- 1 hex head wrench 6mm - [104.167](#)



# BOA PIPE SANDER

*Electric or Pneumatic*

All-around polishing solution for handrails, pipe and tubing.



The LRP 1503 Boa Pipe Sander is the perfect solution for sanding and polishing pipe constructions. The sanding arm snakes up to 270° around the radius of the pipe. The operator simply rotates the BOA slightly to achieve a full 360° finish. Spring resistance between the deflection rollers ensures that the sanding arm and belt are always uniformly tensioned. The BOA saves time finishing stainless steel and other ferrous and nonferrous pipe.

- Variable-speed control; 12 to 40 ft./sec. belt speed
- Maximum pipe Ø: 5" diameter
- Quick, tool-free replacement of sanding belt
- High-quality 270° sanding arm is made of light alloy with two deflection rollers for quick progress, perfect finish and simple operation
- Additional side handle can be rotated 180° in narrow spaces

LRP 1503 VRA  
with sanding belt



**Electric  
or Pneumatic**

## Electric LRP 1503 VRA

<b>Power</b>	11 Amp
<b>Belt speed</b>	12 - 40 ft./sec.
<b>Belt dimensions</b>	30" x 1-1/2" or 3/4"*
<b>Weight</b>	8.2 lbs.

## Pneumatic LRP 1503 AIR

<b>Power</b>	1 HP
<b>Belt speed</b>	28 ft./sec.
<b>Air consumption</b>	20 CFM @ 90 PSI
<b>Weight</b>	8 lbs.

## Standard Equipment

1 carrying case with padding
1 sanding belt, continuous, grit 80, 30" x 1-1/2"
1 sanding belt, continuous, grit 120, 30" x 3/4"
1 sanding belt, continuous, grit 220, 30" x 3/4"
1 sanding fleece, continuous, fine, 30" x 1-1/2"
1 sanding fleece, continuous, medium, 30" x 1-1/2"
1 sanding-polishing belt, continuous, grit 600, 30" x 1-1/2"
1 sanding-polishing belt, continuous, grit 1500, 30" x 1-1/2"

\* Note: Exact belt size is 760mm x 40mm or 20mm

## Accessories

<b>Sanding belt, continuous (10/pkg.)</b> For polishing pipes and tubes	
• 30" x 1-1/2", grit 80	P/N 326.739
• 30" x 1-1/2", grit 120	326.755
• 30" x 1-1/2", grit 220	326.771
• 30" x 3/4", grit 120	326.801
• 30" x 3/4", grit 220	326.836
<b>Sanding fleece, continuous (3/pkg.)</b> For polishing pipes and tubes	
• 30" x 1-1/2", fine	326.852
• 30" x 1-1/2", medium	326.879
• 30" x 1-1/2", coarse	326.895
<b>Sanding-polishing belt, continuous</b> For high-gloss polishing, without polishing agents, in two steps	
• 30" x 1-1/2", grit 600	326.917
• 30" x 1-1/2", grit 1500	326.933

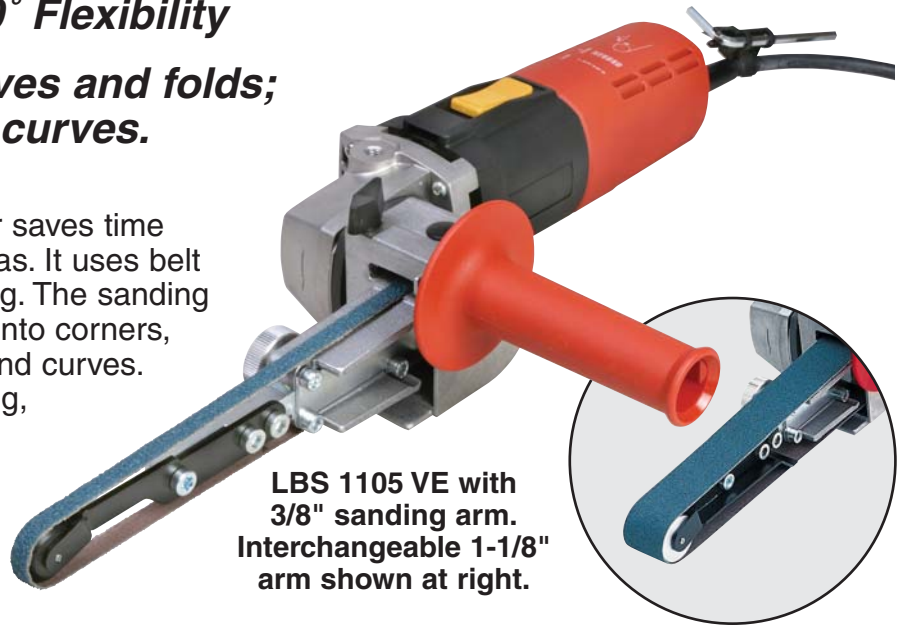


# Finger Belt Sander For Angles and Tight Spaces

## Swivel-mounted Arm, 140° Flexibility

**Reach into corners, grooves and folds;  
well-suited for pipes and curves.**

The LBS 1105 VE finger belt sander saves time grinding in confined and difficult areas. It uses belt sizes 3/16" to 1-1/8" wide by 21" long. The sanding arm rotates up to 140° for reaching into corners, grooves and folds, including pipes and curves. The finger sander is ideal for grinding, blending, polishing and deburring ferrous and nonferrous metal. It also works on wood, plastic, fiberglass and other material. Speed is adjustable from 13 to 39 ft./sec.



**LBS 1105 VE with  
3/8" sanding arm.  
Interchangeable 1-1/8"  
arm shown at right.**

### Accessories



#### Sanding Belts (10/pk.)

3/16", 60 grit	303.615
3/16", 120 grit	303.623
3/8", 40 grit	257.101
3/8", 60 grit	257.105
3/8", 120 grit	257.102
3/8", 220 grit	257.103
1-1/8", 40 grit	256.538
1-1/8", 60 grit	255.328
1-1/8", 120 grit	255.329
1-1/8", 220 grit	255.330

#### Sanding Fleece (3/pk.)

3/8", 240 grit	318.663
3/8", 400 grit	318.671
1-1/8", 240 grit	318.647
1-1/8", 400 grit	318.655

#### Dry Sand/Polish Belts (1/pk.)

1-1/8", 600 grit	318.132
1-1/8", 1500 grit	318.140

**Narrow filing arm  
and 140° adjustability  
allow sanding and  
grinding in confined  
and difficult areas.**



**Standard equipment  
includes a metal  
carrying case.**



### Model LBS 1105 VE

Belt Speeds	13-39 ft./sec.
Motor	6.1 AMP
Weight	5.5 lb.
Standard Equipment	
3/8" Sanding Arm (pointed)	256.525
Sanding Belt Kit (40, 120 and 220 grit belts)	1 set
Side Handle	194.034
Hexagon Socket Screw Key	115.460
Optional Equipment	
3/8" Sanding Arm (curved)	256.532
1-1/8" Sanding Arm (small roller)	255.282
1-1/8" Sanding Arm (large roller)	258.888

*Note: Specifications subject to change. Refer to Owner's Manual for operating instructions.*

## CS UNITEC, Inc.

22 Harbor Avenue, Norwalk, CT 06850  
Toll Free: (800) 700-5919 Tel: (203) 853-9522 Fax: (203) 853-9921  
Website: www.csunitec.com E-Mail: info@csunitec.com

### Never has changing a grinding disc been so quick and efficient

Thanks to the new **EASY-LOCK clamping nut**, abrasives can now be changed in seconds without any tools. The EASY-LOCK clamping nut will work with any abrasive with a hemp or ABS backing plate and a 7/8" arbor. That means you can change any CS Unitec/Eisenblatter abrasive on an angle grinder in a matter of seconds using this uniquely simple solution.

The secret behind it – the **EASY-LOCK self-clamping nut**  
P/N 65008-1 (5/8"-11 UNC)



The clamping collar shaped on the top of the EASY-LOCK clamping nut can secure flap discs and abrasives with a "thicker" backing disc as well as centering them. "Thin" abrasives such as cutting discs, etc. can simply be secured using the reverse of the EASY-LOCK clamping nut.



1. Secure the disc loosely by hand using the EASY-LOCK clamping nut.
2. Press the spindle lock and tighten the disc by turning it clockwise by hand. That's all there is to it!
3. To release the disc, press the spindle lock and turn the disc counter-clockwise by hand.

## Angle Grinders, Sanders & Polishers

### Electric and pneumatic

CS Unitec offers a variety of angle grinders, sanders and polishers to satisfy your most demanding needs. High torque output, variable speed and powerful motors make them ideal for use in metal fabrication, construction, shipyards, refineries, power plants and other heavy industries. Integrated dust extraction guard and vacuum systems are available for some models.

### Pneumatic Angle Grinder, 4-1/2" and 5"

#### 1 HP mini grinder with 5/8" spindle

The L 1509 AIR is a powerful, lightweight pneumatic angle grinder for grinding, cleaning, deburring, blending and smoothing. This lightweight, versatile angle grinder is ideal for use in the most demanding grinding and sanding applications.



L 1509 AIR  
(6500 RPM)

#### L 1509 AIR Specifications

<b>Power</b>	1 HP
<b>Speed</b>	6500 RPM
<b>Max. diameter</b>	5"
<b>Air consumption</b>	33 CFM @ 90 PSI
<b>Air connection</b>	1/4"
<b>Weight</b>	4.25 lbs.

- Heavy-duty pneumatic motor (1 HP / 6500 RPM) stands up to continuous use
- Accepts both 4-1/2" and 5" grinding discs
- Spindle size: 5/8"-11 UNC
- Removable side handle can be mounted on either side of the tool
- Spindle lock



# Angle Grinders / Sanders with Dust Extraction

**L 1506 VV** 4" and 4-1/2", Electric  
Extremely powerful 11 Amp angle grinder and sander with variable-speed electronic motor. Vacuum port: 1-1/4". Ideal for use with our CS 1225 or CS 1500 Dust Extraction Vacuum (see below).

**L 1506 VV AIR** 4" and 4-1/2", Pneumatic  
Extremely powerful 1 HP angle grinder and sander with 1 HP pneumatic motor. Vacuum port: 1-1/4". Ideal for use with our CS 1225 or CS 1500 Dust Extraction Vacuum (see below).

**Vacuum Port: 1-1/4"**

### L 1506 VV Specifications

	L 1506 VV	L 1506 VV AIR
<b>Max. diameter</b>	4-1/2"	4-1/2"
<b>Speed</b>	2200 - 6800 RPM	6000 RPM
<b>Power</b>	11 Amp	1 HP
<b>Spindle</b>	5/8"-11	5/8"-11
<b>Weight</b>	4 lbs.	4 lbs.
<b>Air consumption</b>	-	33 CFM @ 90 PSI
<b>Air connection</b>	-	1/4"



L 1506 VV with dust extraction (2200 to 6800 RPM)



Stepped Adapter (optional) adapts vacuum port to a 1-1/4" dia. hose  
Part Number: 5.453-016



L 1506 VV AIR (6000 RPM)  
(Hose not included)



CS 1500



CS 1225

## Dust Extraction Vacuums for Tools

CS Unitec's dust extraction vacuums offer strong 130 CFM air flow and an automatic filter cleaning system to maximize vacuum power and dust collection. The "Power Take-off" outlet activates the ON/OFF mode from the tool switch, making these vacuums ideal for use with power tools. Manual ON/OFF is necessary for pneumatic tools.

- Ideal for use with power tools
- 99.93% filtration efficiency of particles 3.0 microns is standard. HEPA filters are optional.
- Can also be used as a regular wet/dry vacuum



Stepped adapter and 15' hose included as standard equipment with CS 1225 and CS 1500

### Vacuum Specifications

	CS 1225	CS 1500
<b>Power</b>	11 Amp	11 Amp
<b>Air flow</b>	130 CFM	130 CFM
<b>Tank capacity</b>	6.6 gal.	13 gal.
<b>Weight</b>	24.3 lbs.	35.2 lbs.

We make no claim that use of a vacuum will eliminate contaminants. Wear an approved respirator mask and follow all appropriate OSHA safety regulations for proper ventilation, dust handling, eye protection, etc. when using a dust extraction grinder and vacuum.

# Electric Grinders, Sanders & Polishers

**L 1506 VR** 4-1/2" and 5"

**Compact, high-torque, variable-speed grinder/sander**

This powerful 11 Amp, full-wave electronic grinder/sander has infinitely adjustable variable speeds (2200 to 6800 RPM) and overload protection. It is a versatile tool that is ideal for grinding, roughing, cutting, deburring and rust removal. This is a popular choice among the metal, automotive and natural stone industries.

**L 1509 FR** is a single-speed (10,000 RPM), high-performance, 4-1/2" or 5" angle grinder.

**L 3410 VR** 4-1/2" and 5"

**Compact, high-performance, variable-speed grinder/sander**

The L 3410 VR is a small, agile grinder with a powerful 11 Amp, variable-speed motor (3000 to 11,000 RPM). A flat aluminum die-cast gear head allows the tool to reach into the tightest areas. No matter what the task and workspace, the slim, saddle-shaped motor housing and easily-accessible side switch allow this grinder to sit perfectly in your hand for comfortable operation.



**L 1506 VR**  
(2200 to 6800 RPM)

**L 1509 FR**  
(10,000 RPM)

**Specifications**

	L 1506 VR	L 1509 FR	L 3410 VR
<b>Max. diameter</b>	5"	5"	5"
<b>Speed</b>	2200 - 6800 RPM	10,000 RPM	3000 - 11,000 RPM
<b>Power</b>	11 Amp	11 Amp	11 Amp
<b>Spindle thread</b>	5/8"-11	5/8"-11	5/8"-11
<b>Weight</b>	4.2 lbs.	4.2 lbs.	4.1 lbs.



**L 3410 VR**  
(3000 to 11,000 RPM)

## Low-speed Polishers

*For metal, stone, concrete, plastic, glass and more*

CS Unitec offers several polishing tools for both dry and wet applications. These tools feature either double or triple gear reduction for maximum torque with minimum motor load and a longer service life.

### ELP 1300 Dry Polisher

*Triple gear reduction, 650 to 1150 RPM*

CS Unitec's ELP 1300 polisher is the ideal tool for low-speed dry polishing, especially under heavy load. In combination with various accessories, the ELP 1300 can be used for automotive, wood and metalworking applications such as polishing, fine brushing, matte finishing and sanding. This polisher is particularly suited for materials such as acrylic lacquer, glass, plastics and corian.



Removable handle

**ELP 1300** (650 to 1150 RPM)



Powerful 12 Amp motor is ideal for slow-speed polishing in the automotive and furniture industries.

- Triple transmission reduction for maximum torque with minimum motor load and a long lifetime
- Compact, nonslip handle balances weight distribution and minimizes vibrations
- Cover sheet for ventilation on the motor housing provides added dust protection
- Spindle stop for fast retooling
- Slim design for use in narrow spaces
- Ergonomic on/off switch with locking button

**ELP 1300 Specifications**

<b>Power input</b>	12 Amp (1300 W) 110 V / 60 Hz <small>(Also avail.: 230 V / 50 Hz)</small>
<b>Speed</b>	650 - 1150 RPM
<b>Max. diameter</b>	9"
<b>Spindle thread</b>	5/8"-11
<b>Weight</b>	6.4 lbs.



# EPO 1301 Dry Polisher

Double gear reduction, 1300 - 3050 RPM

The EPO 1301 is a powerful polisher for dry applications such as sanding and polishing metal, stone, concrete and other materials. When used with diamond sanding discs and velcro fastener, it is effective for sanding edges and stone polishing within the workshop or at the construction site.

- Double gear reduction for maximum performance with minimum motor load and a long service life
- Low wearing thanks to dust-protected gear bearings
- Flat gearbox
- Compact, nonslip handle (removable)
- Cover sheet for ventilation on the motor housing provides added dust protection
- Spindle stop for fast retooling
- Slim design for use in narrow spaces
- Ergonomic on/off switch with locking button



Removable handle

**EPO 1301** (1300 to 3050 RPM)

### EPO 1301 Specifications

<b>Power input</b>	12 Amp (1300 W) 110 V / 60 Hz (Also avail.: 230 V / 50 Hz)
<b>Speed</b>	1300 - 3050 RPM
<b>Max. diameter</b>	5"
<b>Spindle thread</b>	5/8"-11
<b>Weight</b>	5 lbs.

### CS Unitec...

Powered by Eibenstock

# EPN 1301 P Wet Polisher

Double gear reduction, 3 speeds

The EPN 1301 P wet polisher for natural stone and concrete applications is particularly suited for grinding and polishing edges and curvatures. It also excels at removing scratches from granite, marble and concrete. This polisher is ideal for stone cutters, natural stone processing companies and concrete fabricators.



Powerful 12 Amp motor is ideal for wet polishing and grinding of granite, marble and concrete.

- Double gear reduction for maximum performance with minimum motor load and a long service life; high torque output
- External water supply below the motor provides protection for the gearbox and easy gear head guiding; no water flows across the motor or gearbox
- GFCI protective switch for isolating transformer helps ensure electrical safety
- Ventilation slots on the motor housing are covered, protecting against water seepage
- Three-speed switch with splash guard; water-protected electronic components
- Spindle stop for fast tool change
- Motor with special sealing provides rust protection

### CS Unitec...

Powered by Eibenstock



Removable handle

**EPN 1301 P**  
(1300/2175/3075 RPM)

### EPN 1301 P Specifications

<b>Power input</b>	12 Amp (1300 W) 110 V / 60 Hz (Also avail.: 230 V / 50 Hz)
<b>3 speeds</b>	1300 / 2175 / 3075 RPM
<b>Max. diameter</b>	5"
<b>Spindle thread</b>	5/8"-11
<b>Weight</b>	6.4 lbs.

# DS 301 Planetary Sander/Polisher

*Sands, grinds, hones and polishes*

The DS 301 planetary polisher produces a flat, swirl-free finish on counter tops, floors, walls and steps. The unit will grind, hone, polish and clean concrete, terrazzo, marble, granite and corian surfaces using coated abrasives, diamond polishing systems and lightweight diamond wheels. The system operates wet by default, or dry with an optional dust cowl.



DS 301, wet operation

This is a true planetary-driven tool. The 12" platform turns at a lower rate than the higher rotational speed of the 5" platens. This combination of RPM provides the optimal speed for polishing, producing a perfect finish five times faster than a single-head polisher. A center coolant feed, precision bearings and sturdy construction make this the ultimate tool for perfect finishes and superior polish.



DS 301 with optional cowl for dry operation

### DS 301 Specifications

<b>Power</b>	10 Amp 110 V / 60 Hz
<b>12" platform speed</b>	150 - 450 RPM
<b>5" platen speed</b>	750 - 2200 RPM
<b>3 platens</b>	5" (with 5/8"-11 thread)
<b>Weight</b>	47 lbs.



## ROLEI® BE 5 Sheet Metal Deburring Machine

Double-sided deburring of metal sheets up to 0.2" thick can be achieved in a single operation with no additional treatment. The machine's flap wheels can be easily adjusted as they wear. One set of wheels lasts for approximately 6500 feet of stainless steel sheet. Supplied standard with two 80 grit flap wheels, the ROLEI® BE 5 can be used with other optional grits to suit the facet width and materials of your particular application.



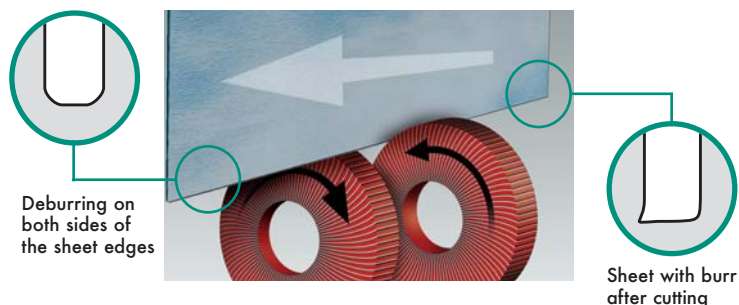
Can also be used on its side for large, thin sheets.

Optional accessories (see our Price List for details):

- Spare flap wheels (40, 60, 80, and 120 grit)
- Machine stand, made from strong steel
- Extension rail (guide rail), from 20" to 27" (must be ordered with machine)
- Port for industrial dust extractor
- 220 V or 440 V power are available

### ROLEI BE 5 Specifications

<b>3-phase motor</b> (optional voltage)	220 - 240 V 3-phase / 2 speeds 400 - 440 V 3-phase / 2 speeds Speed 1: fine deburring, 600 RPM Speed 2: standard deburring, 1200 RPM
<b>Dimensions</b>	19.7" x 12.8" x 7.9"
<b>Weight</b>	64 lbs.
<b>Options</b>	Longer guide rail, machine stand, dust extractor connection



Deburring on both sides of the sheet edges

Sheet with burr after cutting

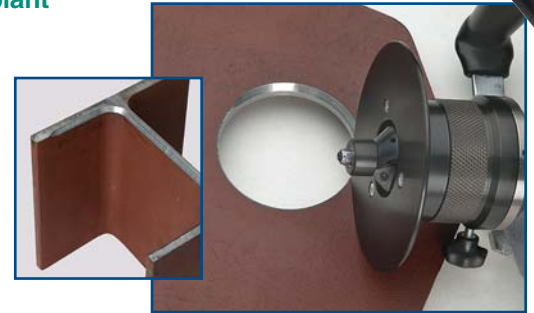


# Multipurpose Beveling Machine

*Bevel, deburr and chamfer edges of steel plate fast*

The LKF450 is designed to bevel 30° or 45° weld seams on steel, stainless steel, nonferrous metals, brass and plastics. It can also be used to deburr and chamfer; straighten edges, internal and external radii; and countersink holes from 7/8" diameter.

- Fine adjustment feature for slight chamfers when deburring for the preparation of weld seams
- Three milling heads – 30°, 45° and radius R2.5 – are available
- Ideal for the following applications: **Moldmaking** (straighten edges, internal and external radii and countersink holes from 7/8" dia.); **Boiler and process plant construction** (prepare weld seams on heat exchangers); **Mechanical engineering** (deburr machine parts, chamfer edges to protect against paint peeling and create visible edges); **Sheet metal** (deburr cut edges)



## Portable Beveler Specifications

	LKF450-2A*	LKF450-2*	LKF200
<b>Beveling angle*</b>	30°	45°	15° - 60°
<b>Bevel width (max.)**</b>	1/4"	1/4"	5/8"
<b>Motor power</b>	10 Amp	10 Amp	14 Amp
<b>Voltage</b>	All machines: 110 V (220 V / 50 Hz also available)		
<b>Cutting speed</b>	3000 SFPM	3000 SFPM	1800 SFPM
<b>Cutting inserts</b>	2	2	12
<b>Dimensions (L x W x H)</b>	12-1/2" x 5-1/2" x 11-5/8"	16-1/2" x 13" (L x H)	
<b>Weight</b>	10.5 lbs.	10.5 lbs.	42 lbs.

\* LKF450 milling heads are interchangeable.

\*\* Max. bevel width may require several passes, depending on material hardness

*LKF450 (above) standard equipment includes milling head and two inserts, SW22 key, carrying case and user's manual. Please see our Price List for available accessories.*

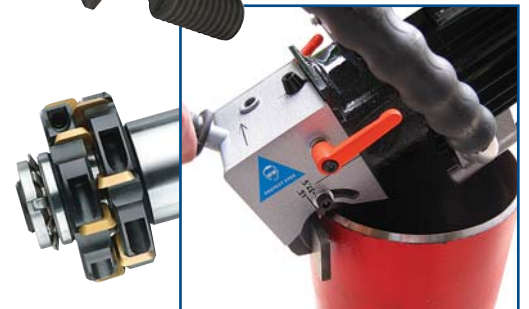
*LKF200 (below) standard equipment includes two milling heads, each with six sintered carbide reversible cutting inserts, tools for assembly, LKF pipe roller guide, steel carrying case and user's manual. Please see our Price List for available accessories.*

# Portable Beveling Machine

*Bevel angles from 15° to 60° on plate and pipes*

CS Unitec's LKF200 Beveling Machine provides fast and easy preparation of weld seams and bevels 15° to 60° angles on plate or pipe. It is ideal for use on steel, stainless steel, aluminum and nonferrous metals and offers high-quality performance that allows for superior weld connections.

- Continuously adjustable angle (15° to 60°) and land width up to 5/8"
- Robust design, single operator control and easy handling; designed for continuous operation with smooth roller guides
- Includes two milling heads and 12 total indexable inserts for fast metal removal and extended tool life
- Work on welding angles and weld preparation on pipes/tubes with a minimum OD of 6-1/4" (160mm) with included pipe roller guide; also ideal for beveling pipe 6-1/4" OD and larger





# UNITEC



# Catalogue

If you just had the right tools...



If you just had the right tools...



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**The weights and lengths stated  
are approximate only**



If you just had the right tools...



## CARLTSOE Spark Resistant Safety Tools

- greater safety for personnel and installations
- strong and long lasting
- comprehensive standard range
- non-magnetic
- corrosion resistant
- special tools made to customers own designs

When conventional steel tools are used in potentially combustible or explosive atmospheres, dangerous sparks may be accidentally created by tools slipping or being struck against hard surfaces.

The only safe way to eliminate fires and explosions in hazardous environments is to make sure that NO inflammable materials are present when using metal handtools.

In practice this is rarely possible and therefore plant managers and safety officers insist that SPARK RESISTANT tools are used for low-cost protection.

CARLTSOE spark resistant safety tools can provide a vital extra margin of safety under these conditions. This margin could be crucial in protecting personnel and installations from disaster.

For metallurgical and technological reasons is it today possible to manufacture spark resistant tools to 90-95% the same hardness etc. as high alloy steel. Frequent re-dressing to remove embedded particles of steel or other substances which could cause sparks is essential. Misuse must be avoided, e.g. extending the handle length of wrenches with piping or using air hammer tools as a crow bar.

All CARLTSOE spark resistant safety tools in this catalogue are manufactured from Copper-Beryllium, Aluminium Bronze (without beryllium) or Brass. Special precautions are to be taken when resharpener and grinding Copper-Beryllium tools. Directions are available upon request.

CARLTSOE Safety Tools are used extensively throughout the World in the following industries:

Oil and gas, off-shore and on-shore  
Petro-chemical  
Explosives manufacturing  
Flammable material manufacturing  
Chemical manufacturing  
Distilleries  
Grain handling  
Paint manufacturing  
Pipeline construction  
Public utilities - Gas, Electric  
Armed forces  
Pharmaceuticals  
Shipyards  
Tankers  
Aircraft and Missile Factories  
Airports  
Non-magnetic applications  
..... and many others where sparks are a potential fire or explosion hazard.

CARLTSOE Safety Tools are guaranteed against defects in materials and workmanship. Tools which fail because of misuse, intentional or unintentional, or for any reason other than those stated above, cannot be replaced free of charge.

All weights stated are for tools made of Copper-Beryllium. Tools made of Aluminium Bronze are about 6% lighter.

We reserve the right to change design or dimensions without prior notice.



If you just had the right tools...

<b>No.: 101</b>
Hammer - ball peen
Schlosserhammer, amerikanische Form
Marteau de mécanicien, type américain



kg	total length mm	lbs
0,2	280	0,440
0,5	320	1,000
0,7	320	1,500
0,9	350	2,000

<b>No.: 104</b>
Hammer - sledge, American type
Fäustel, bzw. Vorschlaghammer
Masse á pans



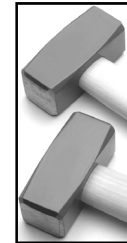
kg	total length mm	lbs
1,0	260	2,200
1,5	260	3,300
2,5	500	5,500
3,0	600	6,600
5,0	800	11,000
8,0	900	17,600

<b>No.: 102</b>
Hammer - cross peen
Vorschlaghammer
Marteau d'ajusteur



kg	total length mm	lbs
0,5	320	1,000
0,9	350	2,000

<b>No.: DIN 6475</b>
Hammer - sledge German type
Fäustel - deutsche Form
Masse á pans type allemand




kg	total length mm	lbs
1,0	260	2,200
1,5	280	3,300
2,0	300	4,400
3,0	600	6,600
4,0	700	8,800


<b>No.: DIN 1041</b>
Hammer, cross peen, German
Schlosserhammer
Marteau


kg	total length mm	lbs
0,1	260	0,220
0,2	280	0,440
0,3	300	0,660
0,5	320	1,000
0,8	350	1,800
1,0	360	2,200
1,5	380	3,300
2,0	400	4,500




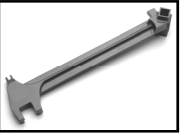
If you just had the right tools...

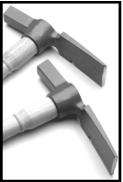
<b>No.: 105</b>		
Hammer - cutoff		
Schrotmeissel		
Tranche		
		
<b>kg</b>	<b>total length mm</b>	<b>lbs</b>
1,3	380	2,800
2,1	400	4,600


<b>No.: 106</b>		
Hammer - scaling		
Enrostungshammer		
Marteau à piquer		
		
<b>kg</b>	<b>total length mm</b>	<b>lbs</b>
0,2	280	0,440
0,4	300	0,880
0,6	320	1,300
0,9	350	2,000


<b>No.: 107</b>		
Wedge, stone		
Steinkeil		
Coin casse - joint		
		
<b>kg</b>	<b>length mm</b>	<b>lbs</b>
1,0	140	2,200

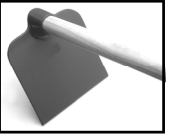
<b>No.: 108</b>		
Railroad pick		
Kreuzhacke		
Pioche		
		
<b>kg</b>	<b>head length mm</b>	<b>lbs</b>
1,4	420	3,080
3,3	700	7,260


<b>No.: 110 SPC</b>		
Multi-head bung wrench		
Fass - Schlüssel		
Clé à bonde universelle		
		
<b>kg</b>	<b>total length mm</b>	<b>lbs</b>
1,4	385	3,080

<b>No.: 112</b>		
Hammer - bricklayer's		
Maurerhammer		
Marteau de macon		
		
<b>kg</b>	<b>total length mm</b>	<b>lbs</b>
0,65	270	1,430

<b>No.: 113</b>		
Carbide drum opener		
Karbidtrommelöffner		
Ouvre - tonneau à Carbue		
		
<b>size mm</b>	<b>total length mm</b>	<b>kg</b>
85 X 65	310	0,8

<b>No.: 114</b>		
Scraper, pick and scalers		
Reinigungswerkzeug		
Pic à grattoir		
		
<b>head length mm</b>	<b>total length mm</b>	<b>kg</b>
140	450	2,1

<b>No.: 115</b>		
Hoe		
Haue		
Houe		
		
<b>size mm</b>	<b>total length mm</b>	<b>kg</b>
200 X 200	1300	1,6

<b>No.: 116</b>		
Rake		
Rechen		
Rateau		
		
<b>size mm</b>	<b>total length mm</b>	<b>kg</b>
350	1500	1,0

If you just had the right tools...

**No.: 117 (Mat.: Aluminium)**

Bucket 12 L

Eimer 12 L

Seau 12L



Dia. mm	Volume	kg
250	12 L	1,5

**No.: 118 A**

Hack saw frame

Bügelsäge

Monture de scie



length mm	blade length	kg
540	300	0,7

**No.: 118 B**

Blade, hack saw

Sägeblatt

Lame de scie à métaux



length mm	length inch	kg
300	12	0,03

**No.: 119**

Hand saw

Handsäge

Scie à main



length mm	length inch	kg
600	24	0,6

**No.: 120**

Hammer, metal sheet

Spann - und Schlichthammer

Chasse à parer



head length mm	total length mm	kg
100	320	0,5

**No.: 121**

Mallet

Gummi hammer

Massette (caoutchouc)



head length mm	total length mm	kg
110	270	0,4
115	320	0,7
125	350	1,0

**No.: 122**

Hammer, claw

Klauenhammer

Marteau d'emballage, emmanché



head length mm	total length mm	kg
122	320	0,5

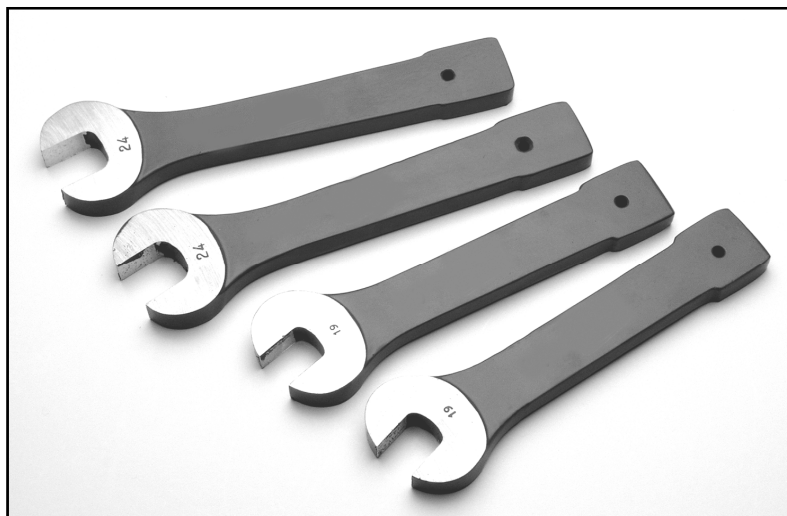
**”You don't see it?  
We can make it!”**

[www.carltsoe.com](http://www.carltsoe.com)



If you just had the right tools...

<b>No.: 200</b>
Striking open end wrench
Einfachmanuschlüssel
Clé à frapper, à fourche



size mm	length mm	kg
14	180	0,400
17	180	0,400
19	205	0,500
22	205	0,500
24	230	0,800
27	230	0,800
30	260	1,100
32	260	1,100
36	290	1,500
41	305	1,700
46	340	2,200
50	370	2,500
55	400	3,200
60	400	3,600
65	400	4,400
70	400	4,400
75	430	5,800
80	430	6,000
85	430	7,500
90	430	7,500
95	430	8,500
100	430	8,500
105	430	9,300
110	430	9,300

size inch	length inch	kg
9/16	7	0,400
11/16	8 1/4	0,500
3/4	8 1/4	0,500
7/8	8 1/4	0,500
15/16	9 1/16	0,800
1 1/16	9 1/16	0,800
1 1/4	10 1/4	1,100
1 7/16	11 7/16	1,500
1 5/8	12	1,700
1 13/16	13 3/8	2,200
2	14 19/32	2,500
2 3/16	15 3/4	3,200
2 3/8	16 15/16	3,600
2 9/16	18 1/8	4,400
3	16 15/16	5,800
3 1/8	16 15/16	6,000
3 9/16	16 15/16	7,500
4	17 3/4	8,500
4 5/16	17 3/4	9,300

Available in larger as well as intermediate sizes in mm and inch.

If you just had the right tools...

<b>No.: 201</b>
Single end box wrench
Ringschlüssel
Clé polygonale



size mm	length mm	kg
17	175	0,180
19	185	0,200
22	195	0,300
24	200	0,400
27	200	0,400
30	210	0,450
32	210	0,450
36	225	0,550
38	225	0,550
41	240	0,750
42	240	0,750
46	255	1,000
50	265	1,200
52	280	1,450
55	280	1,450
56	280	1,450
58	290	1,700
60	290	1,700
65	315	2,200
67	315	2,200
70	330	2,450
75	340	3,000
76	340	3,000
77	340	3,000
80	355	3,500
85	365	3,750

size inch.	length inch	kg
11/16	6 7/8	0,180
3/4	7 9/32	0,200
15/16	7 7/8	0,400
1 1/16	7 7/8	0,400
1 1/4	8 1/4	0,450
1 7/16	8 7/8	0,550
1 5/8	9 1/4	0,750
1 13/16	10 3/64	1,000
2	10 7/16	1,200
2 3/16	11	1,450
2 3/8	11 7/16	1,700
2 9/16	12 3/8	2,200
2 3/4	13	2,450
2 15/16	13 19/32	3,000
3 1/8	14 3/16	3,500
3 3/8	14 3/8	3,750

Available in larger as well as intermediate sizes in mm and inch.

If you just had the right tools...

<b>No.: 201B</b>
Striking box wrench, 6 or 12 point
Ringschlagschlüssel
Clé à frapper polygonale



size mm	length mm	kg
17	150	0,250
19	150	0,250
22	160	0,430
24	160	0,430
27	160	0,430
30	170	0,510
32	170	0,510
36	185	0,750
41	210	1,100
46	225	1,200
50	235	1,350
52	235	1,350
55	250	1,500
56	250	1,500
57	250	1,500
58	250	1,500
60	265	1,900
63	265	1,900
65	280	2,700
67	280	2,700
70	305	3,400
75	305	3,400
76	305	3,400
77	305	3,400
80	340	4,900
85	340	4,900
90	370	7,200
95	370	7,200
100	380	8,500
105	380	8,500
110	380	8,500
115	380	8,500
120	390	9,500
125	390	9,500
130	400	10,700

size inch	length inch	kg
11/16	5 7/8	0,250
3/4	5 7/8	0,250
7/8	5 15/16	0,430
1	5 15/16	0,430
1 1/16	5 15/16	0,430
1 3/16	6 11/16	0,510
1 1/4	6 11/16	0,510
1 13/32	7 5/16	0,750
1 5/8	8 1/4	1,100
1 13/16	8 3/4	1,200
2	9 1/4	1,350
2 1/16	9 3/4	1,500
2 3/16	9 3/4	1,500
2 13/64	9 3/4	1,500
2 1/4	9 3/4	1,500
2 5/16	10 3/8	1,900
2 3/8	10 3/8	1,900
2 1/2	10 3/8	1,900
2 9/16	11	2,700
2 5/8	11	2,700
2 3/4	12	3,400
2 15/16	12	3,400
3	12	3,400
3 1/16	12	3,400
3 1/8	13 11/32	4,900
3 3/8	13 11/32	4,900
3 1/2	14 1/2	7,200
3 9/16	14 1/2	7,200
3 3/4	14 1/2	7,200

Available in larger as well as intermediate sizes in mm and inch.



If you just had the right tools...

<b>No.: 201 F</b>
Striking box wrench, offset, 12 point
Ringschlagschlüssel, gekröpft
Clé à frapper, polygonale, coudée



size mm	length mm	kg
27	250	1,100
30	260	1,500
32	260	1,500
36	280	1,600
41	305	2,100
46	310	2,500
50	320	2,600
55	320	2,800
60	355	3,200
65	380	3,800
70	400	4,600
75	420	5,700
80	435	6,600
85	440	7,000
90	440	9,300
95	440	10,000
100	440	11,700
110	440	13,400
115	440	14,500

size inch	length inch	kg
1 1/16	9 5/8	1,100
1 1/4	10 5/8	1,500
1 7/16	11	1,600
1 5/8	12 3/16	2,100
1 13/16	12 5/8	2,500
2	12 1/2	2,600
2 3/16	12 1/2	2,800
2 3/8	14	3,200
2 9/16	15	3,800
2 3/4	15 3/4	4,600
2 15/16	16 1/2	5,700
3 1/8	17 1/8	6,600
3 3/8	17 15/16	7,000
3 1/2	17 3/4	9,300
3 3/4	17 3/4	10,000
3 7/8	17 3/4	11,700

Available in larger as well as intermediate sizes in mm and inch.

If you just had the right tools...

<b>No.: 202 F</b>
Double end box wrench, offset
Doppelringschlüssel, gekröpft
Clé polygonale, contrecoudée



size mm	length mm	kg
6 X 7	120	0,050
6 X 8	120	0,050
7 X 9	120	0,050
8 X 9	135	0,090
8 X 10	135	0,090
9 X 10	135	0,090
9 X 11	135	0,090
10 X 11	160	0,120
10 X 12	160	0,120
10 X 14	160	0,120
11 X 14	160	0,120
12 X 13	160	0,120
12 X 14	160	0,120
14 X 16	180	0,165
14 X 17	180	0,165
16 X 17	210	0,200
16 X 18	210	0,200
17 X 19	230	0,300
17 X 22	230	0,300
18 X 19	230	0,300
19 X 22	235	0,350
19 X 24	235	0,350
20 X 22	235	0,350
21 X 23	235	0,350
22 X 24	235	0,350
24 X 26	270	0,500
24 X 27	270	0,500
24 X 30	270	0,500
25 X 28	270	0,500
26 X 29	340	0,650
27 X 29	340	0,650
27 X 30	340	0,650
27 X 32	340	0,650
30 X 32	345	0,900
32 X 36	345	0,900
34 X 36	350	0,950
36 X 41	350	0,950
41 X 46	380	1,100
46 X 50	400	1,400
50 X 55	430	1,500
50 X 60	440	1,500
55 X 60	445	1,600

size inch	length inch	kg
7/32 X 1/4	4 17/32	0,050
1/4 X 5/16	4 17/32	0,050
5/16 X 3/8	4 17/32	0,050
3/8 X 7/16	5 1/2	0,090
7/16 X 1/2	6 5/16	0,120
1/2 X 9/16	6 5/16	0,120
1/2 X 19/32	6 5/16	0,120
9/16 X 5/8	7 9/32	0,165
5/8 X 11/16	8 15/32	0,300
5/8 X 3/4	8 15/32	0,300
11/16 X 25/32	8 15/32	0,300
3/4 X 13/16	8 15/32	0,300
3/4 X 7/8	8 15/32	0,300
13/16 X 7/8	9 7/16	0,350
7/8 X 15/16	9 7/16	0,350
7/8 X 31/32	9 7/16	0,350
7/8 X 1	10 3/16	0,500
7/8 X 1 1/16	10 3/16	0,500
15/16 X 1	10 3/16	0,500
15/16 X 1 1/16	10 3/16	0,500
1 X 1 1/16	10 3/16	0,500
1 X 1 1/8	10 3/16	0,500
1 1/16 X 1 1/8	12 3/8	0,650
1 1/16 X 1 1/4	12 3/8	0,650
1 1/8 X 1 5/16	13 9/16	0,900
1 1/4 X 1 5/16	13 9/16	0,900
1 1/4 X 1 7/16	14	0,950
1 7/16 X 1 5/8	14	0,950
1 5/8 X 1 13/16	15 5/32	1,100
1 13/16 X 2	15 15/16	1,400
2 1/16 X 2 3/16	17 1/2	1,500
2 X 2 3/8	17 1/2	1,500
2 1/4 X 2 3/8	17 3/4	1,600

Available in larger as well as intermediate sizes in mm and inch.

If you just had the right tools...

<b>No.: 203</b>
Double ended open 15° wrench
Doppelmaulschlüssel 15°
Clé à fourche, double plate



size mm	length mm	kg
6 X 7	125	0,055
6 X 8	125	0,055
7 X 9	135	0,085
8 X 9	135	0,085
8 X 10	135	0,085
9 X 10	135	0,085
9 X 11	145	0,090
10 X 11	145	0,090
10 X 12	145	0,090
11 X 13	145	0,090
12 X 13	155	0,115
13 X 14	155	0,115
14 X 15	165	0,160
14 X 16	165	0,160
14 X 17	165	0,160
16 X 17	180	0,220
17 X 19	180	0,220
17 X 22	195	0,240
18 X 19	180	0,220
18 X 20	180	0,220
19 X 22	195	0,240
20 X 22	195	0,240

size mm	length mm	kg
21 X 23	205	0,280
22 X 24	205	0,280
22 X 27	225	0,300
23 X 26	245	0,450
24 X 26	245	0,450
24 X 27	245	0,450
25 X 27	245	0,450
25 X 28	245	0,450
26 X 28	260	0,500
27 X 29	260	0,500
27 X 30	260	0,500
27 X 32	280	0,600
30 X 32	280	0,600
30 X 36	300	0,650
32 X 36	300	0,650
35 X 38	300	0,650
36 X 38	325	0,750
36 X 41	340	1,000
41 X 46	365	1,150
46 X 50	390	1,300
50 X 55	400	1,500
50 X 60	400	1,500
55 X 60	455	1,850
60 X 65	480	2,300
65 X 70	510	2,600
70 X 80	545	3,000



If you just had the right tools...

<b>No.: 203</b>
Double ended open 15° wrench
Doppelmaulschlüssel 15°
Clé à fourche, double plate



size inch	length inch	kg
7/32 X 1/4	4 15/16	0,055
1/4 X 9/32	4 15/16	0,055
1/4 X 5/16	4 15/16	0,055
5/16 X 3/8	5 5/16	0,085
3/8 X 7/16	5 3/4	0,090
7/16 X 1/2	6 1/8	0,115
1/2 X 9/16	6 1/2	0,160
1/2 X 5/8	6 1/2	0,160
1/2 X 11/16	6 1/2	0,160
9/16 X 5/8	6 1/2	0,160
9/16 X 3/4	7 1/8	0,220
19/32 X 11/16	7 1/8	0,220
19/32 X 25/32	7 1/8	0,220
5/8 X 11/16	7 1/8	0,220
5/8 X 3/4	7 1/8	0,220
11/16 X 25/32	7 1/8	0,220
11/16 X 7/8	7 11/16	0,240
3/4 X 13/16	7 11/16	0,240
3/4 X 7/8	7 11/16	0,240
25/32 X 13/16	7 11/16	0,240
25/32 X 7/8	7 11/16	0,240
13/16 X 7/8	8 1/16	0,280
7/8 X 15/16	8 1/16	0,280

size inch	length inch	kg
7/8 X 31/32	8 7/8	0,300
7/8 X 1	8 7/8	0,300
15/16 X 1	8 7/8	0,300
7/8 X 1 1/16	8 7/8	0,300
15/16 X 1 1/16	8 7/8	0,300
1 X 1 1/16	9 9/16	0,450
1 X 1 1/8	9 9/16	0,450
1 1/16 X 1 1/8	11 1/16	0,600
1 1/16 X 1 1/4	11 1/16	0,600
1 1/8 X 1 5/16	11 1/16	0,600
1 1/16 X 1 7/16	11 13/16	0,650
1 1/8 X 1 1/2	11 13/16	0,650
1 1/4 X 1 3/8	11 13/16	0,650
1 1/4 X 1 7/16	11 13/16	0,650
1 5/16 X 1 1/2	11 13/16	0,650
1 3/8 X 1 1/2	12 3/16	0,750
1 7/16 X 1 5/8	13 3/8	1,000
1 1/2 X 1 11/16	13 3/8	1,000
1 5/8 X 1 13/16	14 3/8	1,150
1 5/8 X 1 3/4	14 3/8	1,150
1 11/16 X 1 7/8	14 3/8	1,150
1 13/16 X 2	15 3/8	1,300
2 1/16 X 2 5/16	15 3/4	1,500
2 1/4 X 2 3/8	17 15/16	1,850

If you just had the right tools...

**No.: 204 SPC**

Construction box wrench with pin, double hex, offset

Montageringschlüssel mit Dorn, gekröpft

Clé à broche polygonale, coudée



size mm	length mm	kg
22	355	0,500
24	355	0,500
27	405	0,700
30	405	0,800
32	405	0,800
36	450	1,000
38	450	1,000
41	450	1,000
44	450	1,000
46	450	1,100
50	450	1,300

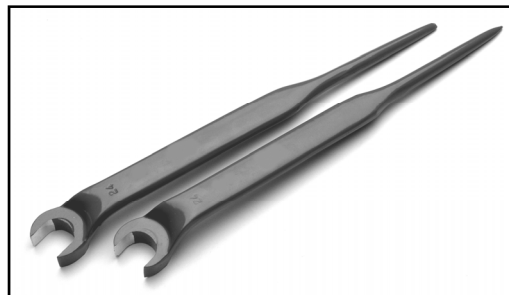
size inch	length inch	kg
7/8	14	0,500
15/16	14	0,500
1 1/16	16	0,700
1 1/4	16	0,800
1 5/16	16	0,900
1 7/16	18	1,000
1 1/2	18	1,000
1 5/8	18	1,100
1 3/4	18	1,100
1 13/16	18	1,100
2	18	1,300

**No.: 205 SPC**

Construction wrench with pin, open end, offset

Montageringschlüssel mit Dorn, gekröpft

Clé à broche fourche, coudée



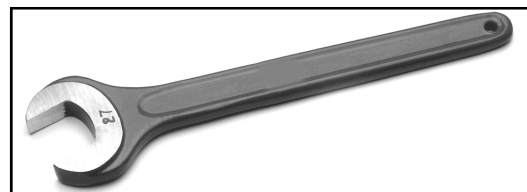
size mm	length mm	kg
22	355	0,500
24	355	0,500
27	405	0,800
30	405	0,800
32	405	0,900
36	450	1,100

size inch	length inch	kg
7/8	14	0,500
15/16	14	0,500
1 1/16	16	0,800
1 1/4	16	0,800
1 5/16	16	0,900
1 7/16	18	1,100

Available in larger as well as intermediate sizes in mm and inch.

If you just had the right tools...

<b>No.: 205</b>
Single open end wrench
Einfachmaulschlüssel
Clé à fourche simple



size mm	length mm	kg
6	110	0,030
7	110	0,030
8	115	0,040
9	115	0,040
10	125	0,050
11	125	0,050
12	140	0,080
13	140	0,080
14	140	0,080
15	140	0,080
16	160	0,110
17	160	0,110
18	160	0,110
19	160	0,110
20	160	0,110
21	185	0,150
22	185	0,150
23	185	0,150
24	195	0,170
25	195	0,170
26	195	0,170
27	235	0,350
28	235	0,350
29	235	0,350
30	235	0,350
32	260	0,400
34	260	0,400
36	280	0,500
38	280	0,500
39	280	0,500
40	310	0,700
41	310	0,700
42	310	0,700
46	365	0,900
50	395	1,100
55	430	1,300
60	475	1,700
65	510	2,000
70	540	2,400
75	590	2,850

size inch	length inch	kg
1/4	4 5/16	0,030
5/16	4 5/16	0,040
3/8	4 17/32	0,050
7/16	4 17/32	0,050
1/2	4 15/16	0,080
9/16	4 15/16	0,080
5/8	5 15/16	0,100
11/16	6 1/2	0,110
3/4	6 1/2	0,110
7/8	7 5/16	0,150
1	8 1/2	0,250
1 1/16	8 1/2	0,250
1 1/8	9 1/4	0,350
1 1/4	10 1/4	0,400
1 5/16	11 1/4	0,500
1 7/16	11 1/4	0,500
1 5/8	11 1/4	0,500
1 13/16	12 3/16	0,800
1 7/8	14 3/8	0,900
2	16 9/16	1,100

Available in larger as well as intermediate sizes in mm and inch.



If you just had the right tools...

<b>No.: 206</b>
Combination wrench 15°
Ringmaulschlüssel 15°
Clé mixte



size mm	length mm	kg
8	145	0,060
9	145	0,060
10	185	0,080
11	185	0,080
12	185	0,080
13	190	0,135
14	190	0,135
15	190	0,135
16	210	0,150
17	235	0,240
18	235	0,240
19	235	0,240
20	260	0,250
21	260	0,250
22	285	0,380
23	285	0,380
24	310	0,500
25	310	0,500
26	310	0,500

size mm	length mm	kg
27	310	0,500
28	310	0,500
29	335	0,600
30	335	0,600
31	365	0,700
32	365	0,700
34		
35	395	0,900
36	395	0,900
38	410	1,100
40	410	1,100
41	410	1,100
42	410	1,100
46	415	1,200
48	435	1,600
50	435	1,600
55	450	2,000
60	470	2,500
65	475	3,200
70	515	3,800
75	570	4,500
80	575	5,000
85	575	5,400
90	575	5,800
95	575	6,000

If you just had the right tools...

<b>No.: 206</b>
Combination wrench 15°
Ringmaulschlüssel 15°
Clé mixte



size inch	length inch	kg
1/4	4 15/16	0,050
5/16	5 3/4	0,060
11/32	5 3/4	0,060
3/8	6 5/16	0,080
7/16	6 5/16	0,080
1/2	7 1/2	0,135
9/16	7 1/2	0,135
5/8	8 1/2	0,150
11/16	9 1/4	0,240
3/4	9 1/4	0,240
13/16	9 5/8	0,380
7/8	9 5/8	0,380
15/16	11 1/4	0,500

size inch	length inch	kg
1	11 1/4	0,500
1 1/16	11 1/4	0,500
1 1/8	12 1/8	0,600
1 1/4	14 3/8	0,700
1 5/16	14 3/8	0,700
1 3/8	15 3/8	0,900
1 7/16	15 3/8	0,900
1 1/2	15 7/8	1,100
1 5/8	15 7/8	1,100
1 11/16	16 3/8	1,200
1 13/16	16 3/8	1,200
1 7/8	17	1,400
2	17 3/8	1,600

Available in larger intermediate sizes in inch.

If you just had the right tools...

<b>No.: 207</b>
Valve wheel key
Ventilhaken
Clé à valve



size mm	length mm	kg
32	250	0,450
36	272	0,600
41	300	0,750
50	320	0,900

size inch	length inch	kg
1 1/4	9 7/8	0,450
1 7/16	10 3/4	0,600
1 5/8	11 13/16	0,750
2	12 5/8	0,900

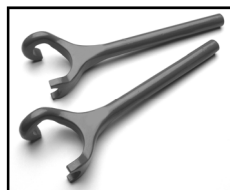
<b>No.: 207 SPC</b>
Valve wheel key, special
Spezial Ventilhaken
Clé à valve spéciale



size mm	length mm	kg
76 - 178	215	0,200
203 - 381	400	0,850
406 - 508	490	2,200

size inch	length inch	kg
3 - 7	11 1/2	0,200
8 - 15	15 3/4	0,850
16 - 20	19 5/16	2,200

<b>No.: 207 EX.SPC</b>
Valve wheel key, heavy duty
Spezial Ventilhaken, schwere Ausführung
Clé à valve spéciale, gros travaux



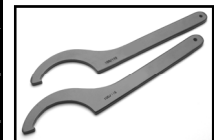
size mm	length mm	kg
76 - 178	290	1,000
203 - 381	430	2,300
406 - 508	520	4,500
406 - 508	800	5,900

size inch	length inch	kg
3 - 7	11 1/2	1,000
8 - 15	17	2,300
16 - 20	20 1/2	4,500
16 - 20	31 1/2	5,900

<b>No.: 207H</b>
Valve wheel hook
Ventilhaken
Clé à valve

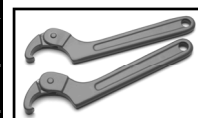
size mm	length mm	kg
30	300	0,500
40	400	0,900
50	500	1,600
60	600	2,500
70	700	3,800
80	800	5,000

<b>No.: 208</b>
Hook spanner
Hakenschlüssel
Clé à ergot



size mm	length mm	kg
12/14	105	0,040
16/20	108	0,050
25/28	130	0,080
30/32	168	0,100
34/36	168	0,100
40/42	205	0,150
45/50	205	0,200
52/55	205	0,200
58/62	235	0,300
68/75	255	0,500
80/90	280	0,600
90/100	305	0,700
95/100	305	0,800
100/110	330	0,800
110/115	330	0,900
120/130	340	0,900
135/145	350	0,900

<b>No.: 208 SPC</b>
Adjustable hook spanner
Gelenkhakenschlüssel
Clé à ergot articulée



size mm	length mm	kg
32 - 75	205	0,280
50 - 120	285	0,500
115 - 170	310	0,700



If you just had the right tools...

<b>No.: 209</b>
Hex key / Allen key
Sechskant- Winkelschraubendreher (Inbus)
Clé mâle pour vis creuse à 6 pans



size mm	length mm	kg
1,5	45 X 14	0,005
2	50 X 16	0,005
2,5	56 X 18	0,005
3	63 X 20	0,010
4	70 X 25	0,010
5	80 X 28	0,020
6	90 X 32	0,035
7	95 X 34	0,050
8	100 X 36	0,065
9	100 X 36	0,095
10	112 X 40	0,115
12	125 X 45	0,180
14	155 X 80	0,500
17	195 X 90	0,800
19	195 X 90	0,800
22	200 X 100	1,000
24	220 X 105	1,400
27	220 X 105	1,400
32	220 X 105	1,500
36	230 X 110	1,600

size inch	length mm	kg
1/8	63 X 20	0,010
9/64	70 X 25	0,010
5/32	70 X 20	0,010
3/16	80 X 28	0,020
7/32	90 X 32	0,035
1/4	95 X 34	0,050
5/16	100 X 36	0,065
3/8	112 X 40	0,115
7/16	125 X 45	0,180
1/2	125 X 45	0,180
9/16	155 X 80	0,500
5/8	195 X 90	0,800
11/16	195 X 90	0,800
3/4	195 X 90	0,800
7/8	200 X 100	1,000
1	220 X 105	1,400
1 1/16	220 X 105	1,400
1 1/8	220 X 105	1,400
1 1/4	220 X 105	1,500
1 5/16	220 X 105	1,500
1 3/8	220 X 105	1,500
1 7/16	230 X 110	1,600
1 1/2	230 X 110	1,600

<b>No.: 209</b>
Ballpoint hex driver, long arm
Sechskant, lang, mit kugelkopf
Clé mâle longue

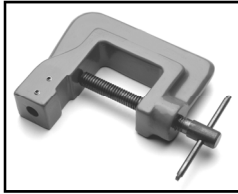
size mm	length mm	kg
3	128	0,080
4	144	0,170
5	163	0,310
6	184	0,510
8	190	1,100
10	220	1,150
12	270	1,350

**“Carltsø Safety Tools  
since 1956”**

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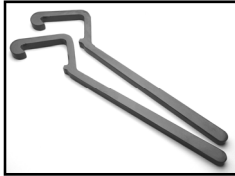
If you just had the right tools...

**No.: 211**  
Grounding clamp  
Schraubzwinde für Erdleitungen  
Serre-joint pour conduits de terre



size mm	length mm	kg
60	170	1,500

**No.: 212**  
Gas tube wrench  
Gasschlauchschlüssel  
Clé à boyau à gaz



size mm	length mm	kg
51	540	2,300
76	590	2,700

**No.: 213**  
Bung wrench  
Vierkantschlüssel  
Clé à mâle, carré



size mm	length mm	kg
22	255	1,200
24	255	1,200
27	310	1,800
32	310	1,800

**No.: 215**  
Single end box wrench -  
For extension tube (216)  
Ringzugschlüssel  
Clé polygonale à traction



size mm	size no. 216	kg
30	Ø 22	0,800
32	Ø 22	0,800
36	Ø 22	0,900
41	Ø 22	1,000
46	Ø 25	1,400
50	Ø 25	1,600

**No.: 216**  
Drive tube (Extension for no.215)  
Aufstechrohr für no. 215  
Tupe - leveier pour no. 215



size mm	length mm	kg
Ø 22	600	0,800
Ø 25	750	1,500
Ø 30	850	2,300

**No.: 301C**  
Drift pin, straight type  
Zugdorn, konisch  
Chasse-goupille, conique



size mm	Length mm	kg
2 X 10	150	0,260
3 X 10	150	0,260
4 X 10	150	0,260
5 X 10	150	0,260
6 X 10	150	0,260
7 X 12	150	0,265
8 X 12	150	0,265
9 X 14	150	0,270
10 X 14	150	0,270
11 X 16	150	0,280
12 X 16	150	0,280
13 X 18	150	0,300
14 X 18	200	0,300
15 X 20	200	0,330
16 X 20	200	0,330
17 X 22	200	0,350
18 X 22	200	0,350
19 X 24	250	0,400
20 X 24	250	0,400
21 X 26	250	0,500
22 X 26	250	0,500
23 X 28	250	0,800
24 X 28	250	0,800
25 X 30	250	0,900
26 X 30	300	0,950
27 X 32	300	1,000
28 X 32	300	1,000
29 X 34	300	1,200
30 X 34	300	1,200

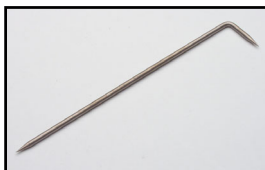
If you just had the right tools...

<b>No.: 301Ø</b>
Pin punch, cylindrical
Zugdom, zylindrisch
Chasse-goupille



size mm	length mm	kg
4 X 10	110	0,060
6 X 12	115	0,090
7 X 14	120	0,140
8 X 14	120	0,140
10 X 16	145	0,200
12 X 18	160	0,300
14 X 20	180	0,400
16 X 24	200	0,650
18 X 30	225	1,100
20 X 32	225	1,300
32 X 40	250	2,200

<b>No.: 302</b>
Pin, offset, marking tool
Reissnadel
Pointe à tracer



size mm	length mm	kg
Ø 4	200	0,040

<b>No.: 303</b>
Center punch
Körner
Pointeau



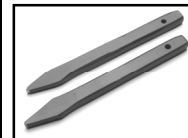
size mm	length mm	kg
Ø 10	100	0,050
Ø 10	150	0,080

<b>No.: 304</b>
Chisel, hand, oval
Flachmeissel
Burin, plat



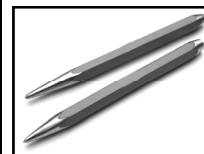
size mm	size inch	kg
22 X 150	7/8 X 5 7/8	0,250
22 X 200	7/8 X 7 7/8	0,350
24 X 250	1 X 9 7/8	0,450
24 X 300	1 X 11 13/16	0,600
27 X 400	1 1/16 X 15 3/4	1,100

<b>No.: 305</b>
Chisel, cape
Kreuzmeissel
Bédane



length mm	length inch	kg
150	5 7/8	0,180
200	7 7/8	0,250
300	9 7/8	0,400

<b>No.: 306</b>
Chisel, bull point
Betonmeissel
Burin, pour béton



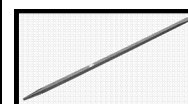
length mm	length inch	kg
200	7 7/8	0,300
250	9 7/8	0,450
300	11 13/16	0,650
400	15 3/4	1,000

<b>No.: 308A</b>
Caulking tool
Stemmwerkzeug
Ebauchoir



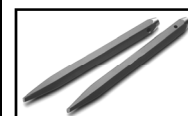
length mm	length inch	kg
200	7 7/8	0,600

<b>No.: 308B</b>
Bar, Pinch
Brechstange
Pince à talon



size mm	length mm	kg
32	1000	6,200
36	1200	12,000
36	1500	14,000
50	1000	19,000
50	1200	23,000

<b>No.: 309</b>
Chisel, diamond point
Diamantspitzmeissel
Burin, pointe de diamant

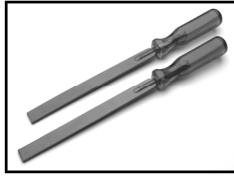


length mm	length inch	kg
200	7 7/8	0,300
250	9 7/8	0,450
300	11 13/16	0,600
400	15 3/4	0,900



If you just had the right tools...

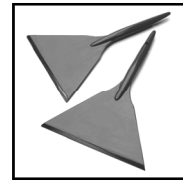
<b>No.: 401</b>
Scraper, flat
Flachscharer
Grattoir emmanché



size mm	length mm	kg
18	300	0,150
30	300	0,200

size inch	length inch	kg
45/64	11 13/16	0,150
1 11/64	11 13/16	0,200

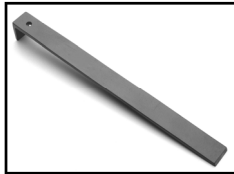
<b>No.: 404</b>
Scraper, hoe
Scharer
Garaoir



size mm	length mm	kg
75	115	0,200
125	195	0,275

size inch	length inch	kg
3	4	0,200
5	6	0,275

<b>No.: 402</b>
Scraper, angle
Winkelscharer
Grattoir, coudé



size mm	length mm	kg
25	300	0,350

size inch	length inch	kg
1	11 13/16	0,350

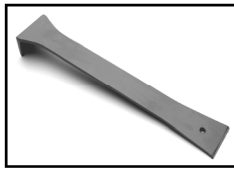
<b>No.: 405</b>
Scraper, deck
Rostscharer
Garaoir



size mm	length mm	kg
75	150	0,300
125	235	0,900

size inch	length inch	kg
3	6	0,300
5	9 1/4	0,900

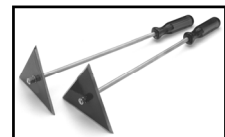
<b>No.: 402B</b>
Scraper, angle
Winkelscharer
Grattoir, coudé



size mm	length mm	kg
50	300	0,500

size inch	length inch	kg
2	11 13/16	0,500

<b>No.: 406</b>
Scraper, ship
Plattenscharer
Grattoirs, forme trianglaire



size mm	length mm	kg
150	470	0,900

size inch	length inch	kg
6	18 1/2	0,900

<b>No.: 403</b>
Scraper, triangular
Dreikantscharer
Grattoir, triangulaire



length mm	length inch	kg
300	11 13/16	0,200

<b>No.: 407</b>
Scraper, without handle
Scharer
Grattoirs, sans manche

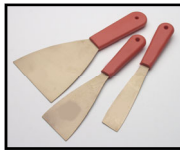


size mm	length mm	kg
60	185	0,600
100	225	0,900
125	255	1,100

size inch	length inch	kg
2 3/8	7 5/16	0,600
4	8 7/8	0,900
5	10 3/64	1,100

If you just had the right tools...

<b>No.: 408</b>
Knife - putty
Spachtel
Couteau à palette



size mm	length mm	kg
25	200	0,065
50	200	0,070
100	200	0,135

size inch	length inch	kg
1	8	0,065
2	8	0,070
4	8	0,135

<b>No.: 501</b>
Adjustable end wrench
Rollgabelschlüssel
Clé à molette



length mm	length inch	kg
150	6	0,210
200	8	0,330
250	10	0,550
300	12	0,800
375	15	1,600
450	18	2,500
600	24	5,500

<b>No.: 409</b>
Knife - putty clipt
Spachtelmesser
Couteau



size mm	length mm	kg
30	200	0,065

size inch	length inch	kg
1 13/16	8	0,065

<b>No.: 502</b>
Adjustable pipe wrench
Rohrzange
Clé serre - tube



<b>No.: 410</b>
Knife, common
Messer
Couteau



length mm	length inch	kg
250	10	0,085

length mm	length inch	kg
150	6	0,450
200	8	0,500
250	10	1,200
300	12	1,300
350	14	2,300
450	18	3,000
600	24	4,000
900	36	7,000
1200	48	12,000

<b>No.: 411</b>
Half round file
Halbrundfeile
Lime, demi-ronde



length mm	length inch	kg
200	8	0,300

**”Carltsø Safety Tools  
if you don't  
compromise on Safety”**

If you just had the right tools...

<b>No.: 504</b>
Ratchet wrench
Knarre, umschaltbare
Manche à cliquet



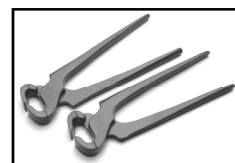
size mm	length mm	kg
11	150	0,150
13	150	0,150
14	260	0,600
17	260	0,600
19	260	0,600
22	390	1,500
24	390	1,500
27	390	1,500
30	390	1,500
32	390	1,500
36	390	1,500

<b>No.: 602</b>
Pliers, pipe
Konuszange
Pince combinée



size mm	size inch	kg
200	8	0,300

<b>No.: 603</b>
Pliers, cutting
Beisszange
Tenaille



size mm	size inch	kg
180	7 1/8	0,300

<b>No.: 505</b>
Pliers, pipe Swedish type
Eckschwede - Rohrzanzen
Clé serre-tube, modèle suédois



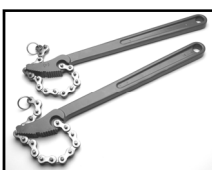
length mm	pipe size inch	kg
420	1 1/2	1,600
550	2	3,300

<b>No.: 604</b>
Pliers - groove joint
Wasserpumpenzange
Pince multiprise



size mm	size inch	kg
250	10	0,400
300	12	0,450
350	14	0,500
400	16	0,700

<b>No.: 600</b>
Chain pipe wrench
Kettenrohrzange
Serre - tupe à chaîne



max tupe size	length mm	kg
50 (2 inch)	600	2,200
100 (4 inch)	600	2,800
150 (6 inch)	600	3,500

<b>No.: 606</b>
Pliers - flat nose
Flachzange
Pince plate



length mm	length inch	kg
155	6	0,125

<b>No.: 601</b>
Pliers, diagonal cutting
Seitenschneider
Pince coupant diagonale



size mm	size inch	kg
150	6	0,500
200	8	0,600

<b>No.: 607</b>
Pliers - round nose
Rundzange
Pince ronde



length mm	length inch	kg
150	6	0,110



If you just had the right tools...

<b>No.: 608</b>
Snips plate shears
Blechscherer
Cisaille à tôle



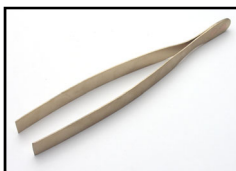
size mm	size inch	kg
275	11	0,550

<b>No.: 609</b>
Shears, cutting
Schere
Ciseaux



size mm	size inch	kg
225	9	0,250

<b>No.: 610</b>
Tweezers
Pinzette
Pincette



size mm	size inch	kg
15 X 200	19/32 X 7 7/8	0,035

<b>No.: 611</b>
Pliers, long nose, with cutter
Telefonzange
Pince d'électricien



size mm	size inch	kg
180	7 1/8	0,150

<b>No.: 612</b>
Pliers, combination, with cutter
Kombinationszange
Pince universelle



size mm	size inch	kg
210	8 1/4	0,500

<b>No.: 701</b>
Socket wrench L-type
Sechskantsteckschlüssel
Clé à pipe, 6 pans



size mm	length mm	kg
8	70 X 110	0,100
9	70 X 110	0,100
10	70 X 110	0,100
11	70 X 110	0,100
12	80 X 160	0,300
13	80 X 160	0,300
14	80 X 160	0,300
17	85 X 190	0,400
19	85 X 190	0,400
22	95 X 200	0,800
24	95 X 200	0,800
27	95 X 200	0,800
30	100 X 210	0,900
32	100 X 210	0,900
36	100 X 210	0,900
41	110 X 220	1,100
46	110 X 220	1,100
50	110 X 260	1,700

<b>No.: 702</b>
Socket wrench T-type
Sechskantsteckschlüssel
Clé à double douille, 6 pans



size mm	length mm	kg
8	170	0,250
9	170	0,250
10	170	0,250
11	170	0,250
12	170	0,250
13	170	0,250
14	170	0,250
17	230	0,400
19	230	0,400
22	260	0,750
24	260	0,750
27	260	0,750
30	280	1,000
32	280	1,000
36	280	1,000

If you just had the right tools...

<b>No.: 801</b>
Screwdriver
Schraubendreher
Tournevis



size mm	total length mm	kg
3 X 50	125	0,030
4 X 100	175	0,035
4 X 150	225	0,040
6 X 100	195	0,060
8 X 150	255	0,130
10 X 200	305	0,200
10 X 300	405	0,250

<b>No.: 802</b>
Screwdriver - offset
Winkelschraubendreher
Tournevis, coudé



size mm	length	kg
4	125	0,030
6	130	0,040
10	140	0,080

<b>No.: 803</b>
Screwdriver - Phillips type
Kreuzschlitzschraubendreher
Tournevis, Phillips



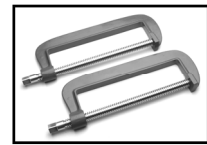
No. size	total length mm	kg
1 X 80	155	0,050
2 X 100	195	0,060
3 X 150	255	0,150
4 X 200	305	0,190

<b>No.: 900</b>
Shackle
Schäkel
Manille



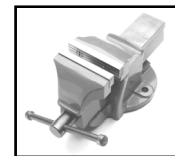
size inch	length inch	kg
1/2	2	0,500

<b>No.: 901</b>
Clamp
Schraubzwinge
Serre - joint



size mm	size inch	kg
90	3 9/16	1,700
160	6 5/16	2,400
250	10	3,100

<b>No.: 902</b>
Parallel vice
Schraubstock
Serre - joint



size mm	size inch	kg
100	4	15,000
125	5	17,700

<b>No.: 903</b>
Chain hoist
Flaschenzug
Palan



Max load	kg
0.5 ton	14,000
1.0 ton	14,000
1.5 ton	
2.0 ton	18,000
3.0 ton	22,000
5.0 ton	

<b>No.: 904</b>
Trolley for Chain hoist

size	kg
1.0 ton	
3.0 ton	

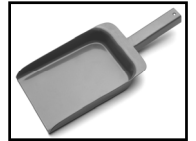
If you just had the right tools...

<b>No.: 999</b>
Wheel brush (brass)
Rundbürste (messing)
Brosse, circulaire (laiton)



size mm	size pin mm	kg
75 X 10	Ø 6	0,050

<b>No.: 1004</b>
Dust pan (brass)
Handschaufel (messing)
Pelle (laiton)



size mm	size inch	kg
325	12 3/4	0,800

<b>No.: 1000</b>
Cup brush (brass)
Topfbürste (messing)
Brosse, forme lapidaire (laiton)



dia. mm	dia. inch	kg
100	4	0,200
150	6	0,700

<b>No.: 1005</b>
Shovel, square edge (brass)
Randschaufel (messing)
Pelle creuse (laiton)



size mm	total length	kg
300 X 250	1330	1,500

<b>No.: 1001</b>
Brush hand (brass)
Bürste mit Griff (messing)
Brosse, emmanchée (laiton)



rows	length mm	kg
2	285	0,100
3	290	0,110
4	295	0,150

<b>No.: 1006</b>
Shovel, round point (brass)
Schaufel, frankfurter (messing)
Pelle de terrassier (laiton)



size mm	total length	kg
300 X 250	1180	1,500

<b>No.: 1002</b>
Brush, flat back (brass)
Bürste ohne Griff (messing)
Brosse (laiton)



rows	length mm	kg
5 X 15	210	0,350

<b>No.: 1007</b>
Edging spade (brass)
Spaten (messing)
Bêche (laiton)



size mm	total length	kg
290 X 195	1120	1,500

<b>No.: 1003</b>
Wheel brush, knot wire (brass)
Rundbürste (messing)
Brosse (laiton)



dia. mm	hole inch	kg

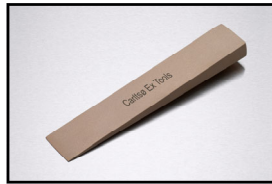
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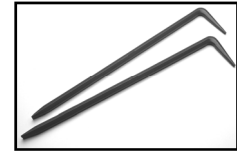
If you just had the right tools...

<b>No.: 1101</b>
Wedge, flange
Keile
Coin



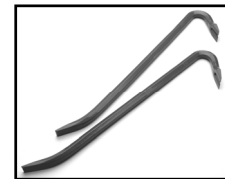
size mm	size inch	kg
80 X 13 X 6		
100 X 50 X 10	4 X 2 X 3/8	0,300
135 X 50 X 18	53/8 X 2 X 11/16	0,600
150 X 25 X 8	6 X 1 X 5/16	0,150
150 X 40 X 8	6 X 1 1/2 X 5/16	0,240
150 X 50 X 13	6 X 2 X 1/2	0,400
180 X 32 X 13		
180 X 50 X 19	7 1/16 X 2 X 3/4	0,800
200 X 20 X 30	8 X 13/16 X 13/16	0,600
200 X 30 X 30	8 X 13/16 X 13/16	0,800
200 X 40 X 40	8 X 1 1/2 X 1 1/2	1,500
200 X 50 X 12	8 X 2 X 1/2	0,600
230 X 40 X 20	9 X 1 1/2 X 3/4	0,800
250 X 40 X 30	10 X 19/16 X 13/16	1,300
300 X 50 X 40	12 X 2 X 19/16	2,600

<b>No.: 1302</b>
Angle tracing point
Winkelhaken
Pince à levier, coudée



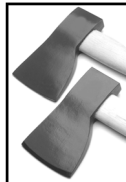
size mm	length mm	kg
16	500	1,300
20	600	2,400
22	800	3,400

<b>No.: 1303</b>
Bar, wrecking
Hebestange mit Nagelklaue
Pince à décoffrer



size mm	length mm	kg
16	450	1,300
19	600	2,400
19	760	2,800
19	900	3,600

<b>No.: 1201</b>
Axe, flat head
Axt
Hache à main



size mm	total length mm	kg
100	450	1,600

<b>No.: 1501</b>
Ratchet
Knarre, umschaltbare
Manche à cliquet



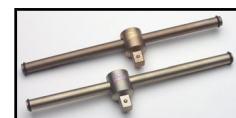
squre drive	length mm	kg
1/4 inch	150	0,150
3/8 inch	150	0,150
1/2 inch	260	0,600
3/4 inch	390	1,500
1 inch	390	1,500

<b>No.: 1202</b>
Hatchet
Beil
Hachette de charpentier

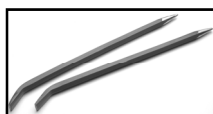


size mm	total length mm	kg
85	380	1,200

<b>No.: 1502</b>
Sliding T bar
Quergriff
Poignée Couissante



<b>No.: 1301</b>
Bar, crow
Brechstangen
Pince à talon



size mm	length mm	kg
19	500	1,000
23	800	2,800
28	1000	4,400

squre drive	length mm	kg
1/4 inch	130	0,200
3/8 inch	130	0,200
1/2 inch	260	0,500
3/4 inch	260	0,600
1 inch	300	1,000

If you just had the right tools...

<b>No.: 1503 (DIN 3124 &amp; 3120)</b>
Socket
Steckschlüsseinsatz
Douille



squre drive inch	size mm	size inch
1/4	4	3/16
1/4	5	7/32
1/4	6	1/4
1/4	7	9/32
1/4	8	5/16
1/4	9	11/32
1/4	10	3/8
1/4	11	7/16
1/4	12	1/2
1/4	13	9/16
1/4	14	

squre drive inch	size mm	size inch
1/2	7	5/16
1/2	8	3/8
1/2	9	7/16
1/2	10	1/2
1/2	11	9/16
1/2	12	19/32
1/2	13	5/8
1/2	14	11/16
1/2	15	3/4
1/2	16	25/32
1/2	17	13/16
1/2	18	7/8
1/2	19	15/16
1/2	20	1
1/2	21	1 1/16
1/2	22	1 1/8
1/2	23	1 1/4
1/2	24	
1/2	25	
1/2	26	
1/2	27	
1/2	28	
1/2	30	
1/2	32	

squre drive inch	size mm	size inch
3/4	22	1 5/16
3/4	24	1 3/8
3/4	27	1 7/16
3/4	30	1 1/2
3/4	32	1 9/16
3/4	34	1 5/8
3/4	36	1 11/16
3/4	38	1 3/4
3/4	41	1 13/16
3/4	46	1 7/8
3/4	50	2

squre drive inch	size mm	size inch
1	46	2 1/16
1	50	2 3/16
1	55	2 3/8
1	60	2 9/16
1	65	2 3/4
1	70	2 15/16
1	75	3 1/8
1	80	

Available in larger as well as intermediate sizes in mm and inch.  
**Impact**, special sizes and **Deep** sockets are also available.

If you just had the right tools...

<b>No.: 1503I (DIN 3129 &amp; 3121)</b>
Impact Socket
Impact Steckschlüsseinsatz
Impact Douille

squre drive inch	size mm
1/2	8
1/2	9
1/2	10
1/2	11
1/2	12
1/2	13
1/2	14
1/2	15
1/2	16
1/2	17
1/2	18
1/2	19
1/2	21
1/2	22
1/2	24
1/2	27
1/2	30



squre drive inch	size mm
3/4	17
3/4	18
3/4	19
3/4	21
3/4	22
3/4	24
3/4	27
3/4	30
3/4	32
3/4	34
3/4	41
3/4	46

squre drive inch	size mm
1	22
1	24
1	27
1	30
1	32
1	34
1	36
1	41
1	46
1	50
1	55
1	60
1	65
1	70

squre drive inch	size mm
1 1/2	36
1 1/2	41
1 1/2	46
1 1/2	50
1 1/2	55
1 1/2	60
1 1/2	65
1 1/2	70

Available in larger as well as intermediate sizes in mm and inch.



If you just had the right tools...

<b>No.: 1504</b>
Extension bar
Verlängerung
Rallonge



square drive	length mm	kg
1/4 inch	100	0,050
1/4 inch	200	0,100
3/8 inch	100	0,080
3/8 inch	200	0,1500
1/2 inch	100	0,210
1/2 inch	200	0,320
1/2 inch	250	0,390
3/4 inch	100	0,350
3/4 inch	200	0,575
3/4 inch	250	0,700
1 inch	100	0,830
1 inch	250	1,400

<b>No.: 1505</b>
Speed handle
Winde
Vilebrequin



square drive	length mm	kg
3/8 inch	380	1,200
1/2 inch	380	1,200
3/4 inch	380	1,400
1 inch	380	1,400

<b>No.: 1506</b>
Hinged handle
Gelenkgriff
Poignée articulée



square drive	length mm	kg
1/2 inch	380	1,000
3/4 inch	380	1,100
1 inch	380	1,200

<b>No.: 1507</b>
Universal joint
Kardangelen
Joint à cardan



square drive	length mm	kg
1/2 inch	65	0,200
3/4 inch	85	0,550
1 inch	115	1,550

<b>No.: 1508</b>
Handle, offset grip
Winkelgriff
Poignée coudée



square drive	length mm	kg
1/2 inch	260	0,400
3/4 inch	300	0,800
1 inch	300	1,000

<b>No.: 1509</b>
Converter
Übergangsstück
Adaptateur



male inch	female inch
1/2	3/4
3/4	1/2
3/4	1
1	3/4
1	1 1/2
1 1/2	1

**“You don't see it?  
We can make it!”**

[www.carltsoe.com](http://www.carltsoe.com)

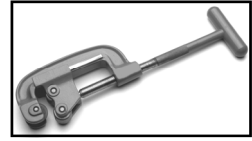
If you just had the right tools...

<b>No.: 1510</b>
Tupe spanner, 12 point
Steckschlüssel, 12 kant
Clé à douille, 12 pans



size mm	length mm	size 1511
7	150	Ø 6
8	150	Ø 6
9	150	Ø 6
10	150	Ø 8
11	150	Ø 8
12	150	Ø 8

<b>No.: 1512</b>
Pipe cutter
Rohrabschneider
Couteuse de tuyau



size	length	kg
50 (2 inch)	430 (17 inch)	2,300

<b>No.: 1511</b>
Sliding bar for 1510
Quergiff für 1510
Broches pour 1510



size mm	length mm
Ø 6	180
Ø 8	180



#### 1500 Box for set of sockets

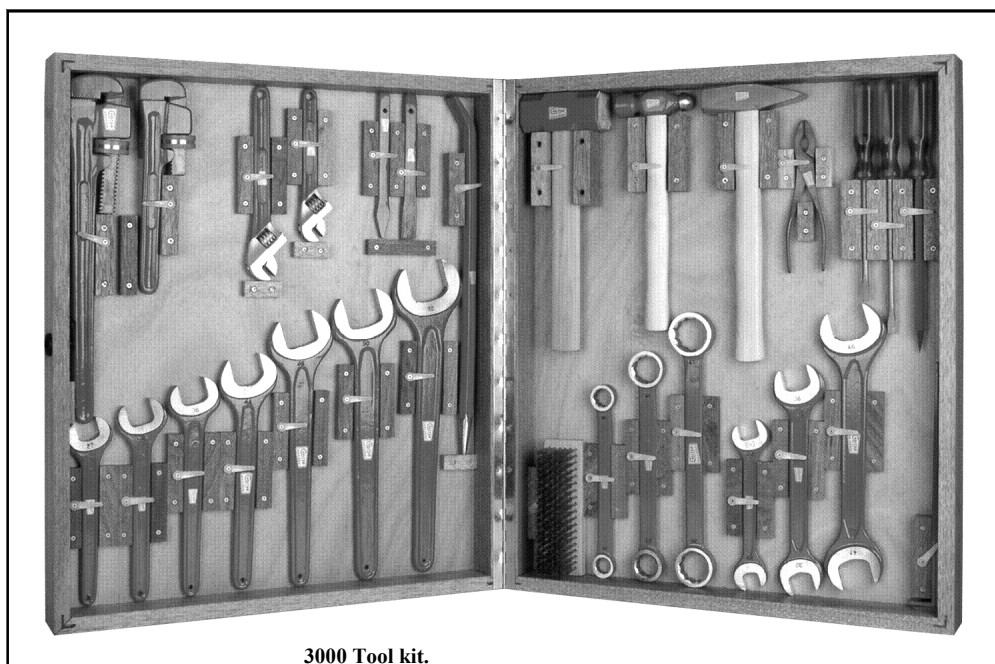
The box can contain:

- 21 sockets No. 1503 - 1/2 inch drive.
- 1 wrench ratchet No. 1501 - 1/2 inch drive.
- 1 sliding Tee No. 1502 - 1/2 inch drive.
- 1 extention bar No. 1504 - 1/2 inch drive length 100 mm.
- 1 extention bar No. 1504 - 1/2 inch drive length 200 mm.
- 1 hinged handle No. 1506 - 1/2 inch drive.
- 1 universal joint No. 1507 - 1/2 inch drive.

#### May be modified according to your requirements

Box dimension: 360 X 460 X 110  
 Weight empty: 1,800 kg.  
 Weight full: 6,300 kg.

If you just had the right tools...



**3000 Tool kit.**

**3000 Tool kit, wood**

- 1 No. 101 - 0,5 kg.
- 1 No. 104 - 2,5 kg.
- 1 No. 1041 - 1,0 kg.
- 1 No. 202 - 19x22 mm.
- 1 No. 202 - 27x32 mm.
- 1 No. 202 - 36x41 mm.
- 1 No. 203 - 22x27 mm.
- 1 No. 203 - 32x36 mm.
- 1 No. 203 - 41x46 mm.
- 1 No. 205 - 27 mm.
- 1 No. 205 - 32 mm.
- 1 No. 205 - 36 mm.
- 1 No. 205 - 41 mm.
- 1 No. 205 - 46 mm.
- 1 No. 205 - 50 mm.
- 1 No. 205 - 55 mm.
- 1 No. 304 - 200 mm.
- 1 No. 305 - 200 mm.
- 2 No. 402 - 25x300 mm.
- 1 No. 403 - 300 mm.
- 1 No. 501 - 24 mm.
- 1 No. 501 - 32 mm.
- 1 No. 502 - 32 mm.
- 1 No. 502 - 75 mm.
- 1 No. 602 - 205 mm.
- 1 No. 801 - 8x150 mm.
- 1 No. 801 - 10x200 mm.
- 2 No. 1002 - 5x15 rows.
- 2 No. 1004 - 325 mm.
- 1 No. 1301 - 500 mm.
- Box dim.: 595x695X146
- Weight empty: 12,100 kg.
- Weight full: 33,400 kg.

**2000 Tool kit, wood**

- 1 No. 101 - 0,5 kg.
- 1 No. 104 - 2,5 kg.
- 2 No. 106 - 0,4 kg.
- 1 No. 207 - 50 mm.
- 1 No. 301Ø - 10x16x145 mm.
- 1 No. 304 - 200 mm.
- 2 No. 402B - 50x300 mm.
- 1 No. 403 - 300 mm.
- 2 No. 404 - 75 mm.
- 1 No. 501 - 32 mm.
- 1 No. 501 - 50 mm.
- 1 No. 502 - 64 mm.
- 1 No. 604 - 250 mm.
- 1 No. 801 - 8x150 mm.
- 1 No. 801 - 10x200 mm.
- 2 No. 1001 - 3 rows.
- 2 No. 1004 - 325 mm.
- 1 No. 1301 - 500 mm.
- Box dim.: 595x695X146
- Weight empty: 12,100 kg.
- Weight full: 26,800 kg.

**4000 Tool kit, wood**

- 2 No. 106 - 0,2 kg.
- 2 No. 106 - 0,4 kg.
- 2 No. 106 - 0,6 kg.
- 1 No. 401 - 30x300 mm.
- 6 No. 402 - 25x50 mm.
- 1 No. 403 - 300 mm.
- 3 No. 404 - 75 mm.
- 3 No. 404 - 125 mm.
- 3 No. 1001 - 3 rows.
- 1 No. 1004 - 5x15 rows.
- Box dim.: 595x695X146
- Weight empty: 12,100 kg.
- Weight full: 20,400 kg.

Tool kit in wood box  
may be modified according to  
Your requirements



If you just had the right tools...



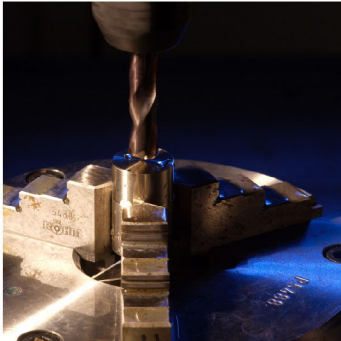
If you just had the right tools...

# EOD SAFETY TOOLS



**Carltsø EOD set 84 pices**

**Carltsø EOD Safety Tools are manufactured according to meet the specification in STANAG 2897**



**Exclusive Distributor North America: CS UNITEC**

**22 Harbor Avenue, Norwalk, CT 06850**

**Toll Free: (800) 700-5919 / Tel: (203) 853-9522**

**Fax: (203) 853-9921**

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The world of...

**CARLTSO SAFETY TOOLS**



- Rugged construction
- Easy to move with lift and latch handle
- Delivers 5 gpm or 8 gpm at 2000 psi
- Electronic Throttle with two power modes: **Automatic Control** senses working load and adjusts to tool demand and returns to idle when load falls below threshold and **Always-On** which maintains constant engine speed at all work loads.
- Easy servicing with access to parts and removable upper frame
- All electric control system with fully sealed and potted rotary switches
- Quartz hour meter records engine time
- Hydraulic pump is mounted directly on engine to insure alignment and long life of drive coupling
- In-tank hydraulic filter continually cleans hydraulic fluid and refill fluid
- Easily accessible 35 Ah, non spill, no maintenance battery
- Automatic pressure lubrication system keeps bearings bathed in oil with automatic low oil level off switch
- Conforms to HTMA Type 1 and Type 2 tool circuit recommended performance as well as the 5 hp heat rejection capacity recommendation



## LPU 18 Delivers Up To 8 GPM @ 2000 PSI

Technical Specifications	LPU 18	
	USA	METRIC
Output Capacity	8 gpm	30 lpm
Pressure	2000 psi	140 bar
Circuit Type	Open center	
Fuel Capacity	7 gallons	26 liters
Hydraulic Reservoir	3 gallons	11 liters
Weight (Wet)	330 lbs	150 kg
Length	35 inches	89 cm
Width	21.5 inches	54.6 cm
Height	29 inches	73.7 cm
Engine	Briggs & Stratton 18 HP Vanguard Honda 20 H OHV	

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# AIR MOVERS

*Efficient • Durable • Safe*



## QUIET AND COMPACT

CS Air Movers are lightweight, easy to handle and highly efficient for moving large volumes of air. Operating on compressed air, they are ideal for ventilation in hazardous areas and volatile atmospheres. No moving parts make them safe to use and easy to maintain.

### Features and Benefits

- The sturdy housing is made of stainless steel and the nozzle is made of brass to withstand high mechanical loads and chemical influence. Consequently, CS Air Movers have a nearly unlimited service life and they are quieter than comparable units.
- No moving parts- safe for hazardous locations.
- CS Air movers have suspension lugs for easy mounting. Therefore, they can be aligned exactly with the required blower area.
- Model W 40 and W 70 have ball-type shut off valves.
- Connection for static ground wire.

### Performance Data

Type	Inlet Pressure		
	40 PSI	60 PSI	90 PSI
	Total Air Flow	Total Air Flow	Total Air Flow
W 20	125 CFM	155 CFM	207 CFM
W 40	777 CFM	1028 CFM	1480 CFM
W 70	2296 CFM	2719 CFM	3430 CFM
	Air Consumed	Air Consumed	Air Consumed
W 20	8 CFM	9 CFM	12 CFM
W 40	56 CFM	71 CFM	87 CFM
W 70	115 CFM	141 CFM	169 CFM

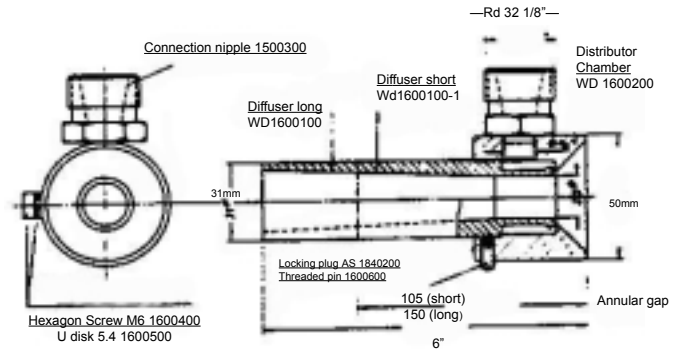
### DIMENSIONS AND MEASUREMENTS

Type	Overall Length	Diameter of Base	Diameter Top of Horn	Annular Gap	Net Weight
W 20	6.00"	2.32"	1.25"	0.0048"	2.9 lbs.
W 40	12.80"	4.60"	3.68"	0.0100"	11.0 lbs.
W 70	21.00"	6.00"	5.80"	0.0120"	22.0 lbs

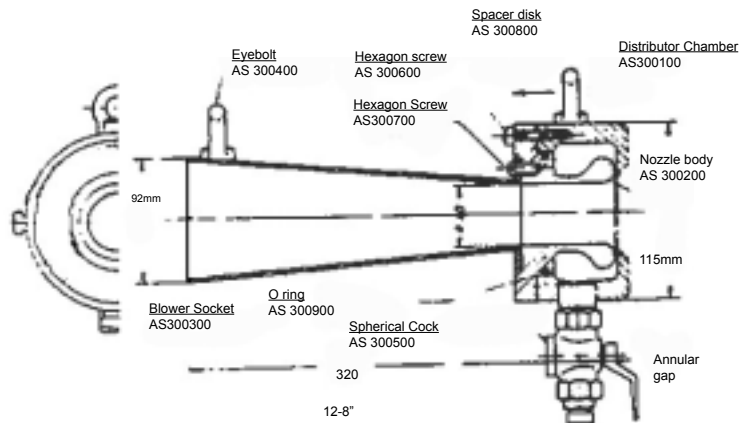
**CS Unitec, Inc.** 22 Harbor Ave., Norwalk, CT 06850 Tel: (800) 700-5919 (203) 853-9522  
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Note: Specifications subject to change. Refer to Owners Manual for operating instructions.

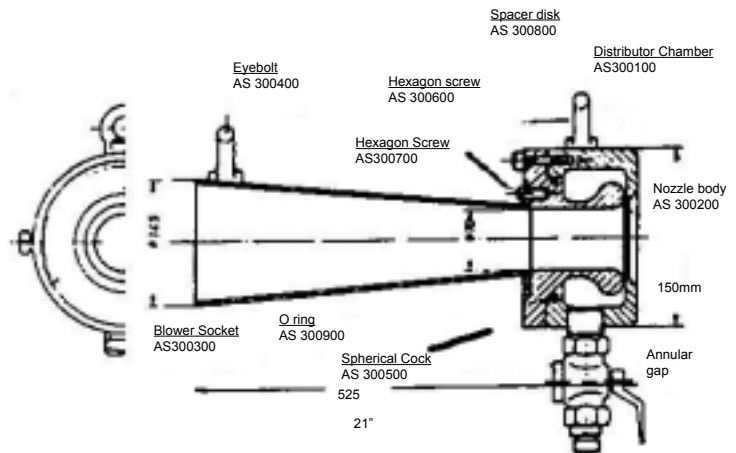
## Air Mover Type W 20



## Air Mover Type W 40



## Air Mover Type W 70



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## AXIAL FANS AIR DRIVEN (EX)



8 1521 0300 - 8 1524 0300



8 1601 0300 - 8 1603 0300  
With protective grille on inlet side

### Small Portable Fans 8 15.. Series

for numerous applications.

These fans are suitable for blowing air, extracting fumes from tanks, containers, pump rooms and in cleaning, painting and repair work.

Do **not** fit oilers to the Airline.

### Large Fans

These fans are suitable for moving large volumes of air through ductwork, for cooling, fume removal and all general blowing and exhausting of air, especially in:

- Underground Mining
- Shipyards
- Refineries
- Petro Chemical Industry
- Steel Works
- Power Stations

The design features are the same as Type 8 1601 but without protective grilles.

Ductwork connections Standard:  
Slip-on sleeve to DIN 21600.

Special design:  
Flange to DIN 21603.  
Earthing cable.

For Flanges, see Accessories

### Design Features

The fans are driven by a rugged, low-maintenance turbine.

All components used in the fan construction, except shaft and ball bearings, which are located inside an aluminium enclosure, are made of non-ferrous metal and are spark and explosion proof.

An aluminium protective grille is mounted on the air intake side of Types 8 1601/2/3.

Two types of slip-on sleeves are available on request.

On models 8 1601 and 8 1602 the spent compressed air is fed back into the air stream generated by the fan.

On model 8 1603 the spent compressed air is vented to atmosphere thus preventing contaminated air entering the air stream.

Approved by "GERMANISCHER LLOYD".

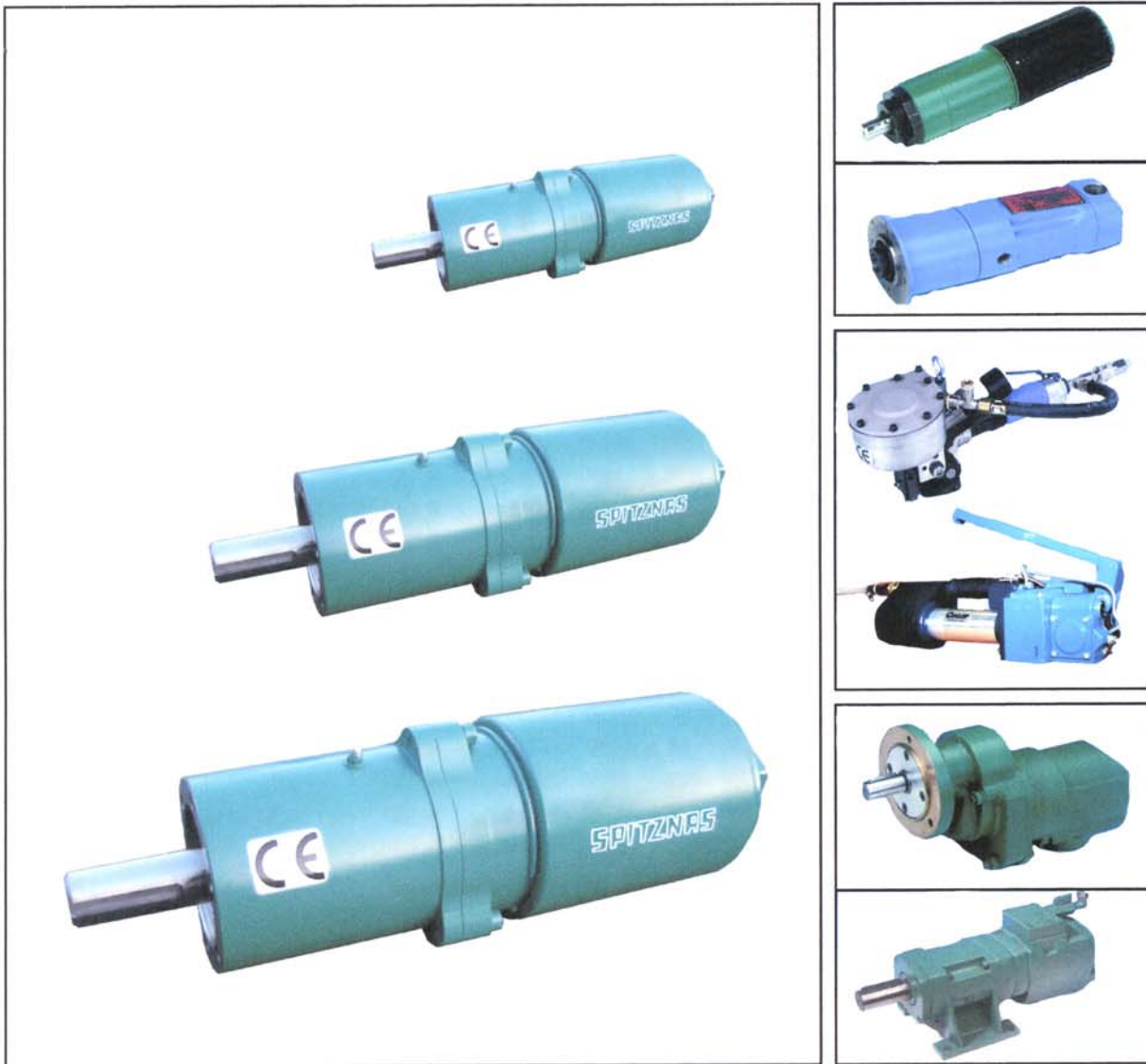
Type	Nominal Diameter	Unit Length	Weight	Operating Pressure	Air Consumption	Number of Drive Nozzles	Volume Flow Unrestricted Discharge	Volume Flow depending on Total Pressure based on Air at 20° C, 1 Atmosphere											
								1	1,5	2,5	3,5	5	7	9	11	13	mbar		
8 1601 0300	300	350	13	5	0,58	1	0,78	0,78	0,62	0,43	0,28	0,09							m³/s
8 1602 0300	300	350	13	5	1,16	2	1,0	0,96	0,87	0,71	0,58	0,43	0,23						m³/s
8 1603 0300	300	370	13,5	5	0,58	1	0,78	0,78	0,62	0,43	0,28	0,09							m³/s
8 1501 0300	300	440	22	4	1,28	1	1,53				1,49	1,38	1,18	0,91	0,38				m³/s
8 1502 0300	400	440	32	4	2,11	1	2,7				2,41	2,23	1,98	1,66	1,17				m³/s
8 1503 0300	500	520	46	4	2,73	1	4,33			2,54	4,28	3,78	2,92	2,07					m³/s
8 1504 0300	600	520	58	4	3,84	1	5,83				5,42	4,97	4,27	3,51	2,04	0,82			m³/s
8 1521 0300	300	440	22	6	1,28	1	1,53				1,49	1,38	1,18	0,91	0,38				m³/s
8 1522 0300	400	440	32	6	2,11	1	2,7			2,54	2,41	2,23	1,98	1,66	1,17				m³/s
8 1523 0300	500	520	46	6	2,73	1	4,33				4,28	3,78	2,92	2,07					m³/s
8 1524 0300	600	520	58	6	3,84	1	5,83				5,42	4,97	4,27	3,51	2,04	0,82			m³/s

Model	Dia.	Volume Flow	Length	Weight
8 1521 0300	12"	3,938 cfm @ 90 psi	17 inches	48 Lb.
8 1522 0300	16"	6,655 cfm @ 90 psi	17 inches	70 Lb.
8 1523 0300	20"	10,824 cfm @ 90 psi	21 inches	101 Lb.
8 1524 0300	24"	14,476 cfm @ 90 psi	21 inches	128 Lb.

# CS UNITEC, INC.

## AIR MOTORS

- CLOCKWISE AND COUNTER-CLOCKWISE
- REVERSIBLE AND NON-REVERSIBLE
- VANE-TYPE
- GEARED AND NON-GEARED
- .75 TO 10 HP



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# TECHNICAL SPECIFICATION

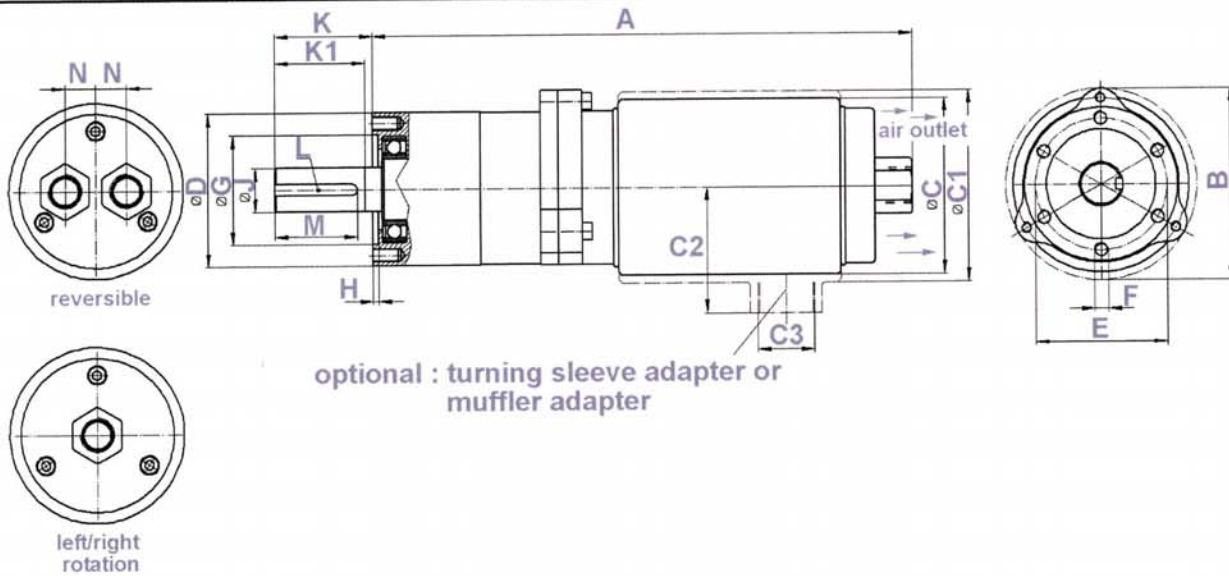


Type		Power	Speed Under Load	Free Speed	Torque Under Load	Air connection	Air Consumption	Weight	Exhaust Air Outlet
clockwise	counter-clockwise	HP	rpm	rpm	Ft-lbs.		CFM	lbs.	
3 6220 0020	3 6220 0050	3.54	97	185	182	R 1/2"	95.34	20.02	free
3 6221 0020	3 6221 0050	3.54	97	185	182	R 1/2"	95.34	20.35	turning sleeve
3 6222 0020	3 6222 0050	3.54	725	1400	26.8	R 1/2"	95.34	17.38	free
3 6223 0020	3 6223 0050	3.54	725	1400	26.8	R 1/2"	95.34	17.71	turning sleeve
3 6224 0020	3 6224 0050	3.54	725	1400	26.8	R 1/2"	95.34	17.38	free
3 6225 0020	3 6225 0050	3.54	725	1400	26.8	R 1/2"	95.34	17.71	turning sleeve
3 6250 0020	3 6250 0050	1.47	110	220	72.8	R 1/2"	48.02	8.58	free
3 6251 0020	3 6251 0050	1.47	110	220	72.8	R 1/2"	48.02	8.80	turning sleeve
3 6252 0020	3 6252 0050	1.47	670	1320	11.7	R 1/2"	48.02	7.48	free
3 6253 0020	3 6253 0050	1.47	670	1320	11.7	R 1/2"	48.02	7.70	turning sleeve
3 6412 0020	3 6452 0050	5.50	635	1100	62.6	R 3/4"	218.92		free
reversible									
3 6220 0030		3.06	83	170	180	R 1/2"	95.34	20.46	free
3 6221 0030		3.06	83	170	180	R 1/2"	95.34	20.79	turning sleeve
3 6222 0030		3.06	620	1280	24.9	R 1/2"	95.34	18.04	free
3 6223 0030		3.06	620	1280	24.9	R 1/2"	95.34	18.37	turning sleeve
3 6224 0030		3.06	620	1280	24.9	R 1/2"	95.34	18.04	free
3 6225 0030		3.06	620	1280	24.9	R 1/2"	95.34	18.37	turning sleeve
3 6250 0030		1.25	94	195	66.6	R 1/2"	218.92	9.02	free
3 6251 0030		1.25	94	195	66.6	R 1/2"	218.92	9.24	turning sleeve
3 6252 0030		1.25	570	1120	10.8	R 1/2"	218.92	7.92	free
3 6253 0030		1.25	570	1120	10.8	R 1/2"	218.92	8.14	turning sleeve

Technical specification at an operating pressure of 6 bar (90 PSI).



# DIMENSIONS



NOTE: Flange mounts are available with US/(Imperial) or Metric size bolt holes. Please advise your requirements.

## METRIC TABLE MEASUREMENTS

A	B	C	C1	C2	C3	D	E	F	G	H	J	K	K1	□ L	M	N
311	114	102				88.9	76.2	6xM8	63.5H9	3.17	∅25.4	57		6.35	48	
311	114		111	73	R1"	88.9	76.2	6xM8	63.5H9	3.17	∅25.4	57		6.35	48	
258	114	102				88.9	76.2	6xM8	63.5H9	3.17	∅25.4	57		6.35	48	
258	114		111	73	R1"	88.9	76.2	6xM8	63.5H9	3.17	∅25.4	57		6.35	48	
321.5	114	102		73		76.2	63.5	5x7.15	50.8g6	3.17	□ 1/2"					18
321.5	114		111		R1"	76.2	63.5	5x7.15	50.8g6	3.17	□ 1/2"					18
243	86	83				68.2	57.15	6xM8	44.45H7	3.4	∅19.05	56.55	45.5	4.76	42.6	
243	86		92	60	R3/4"	68.2	57.15	6xM8	44.45H7	3.4	∅19.05	56.55	45.5	4.76	42.6	
	86	83				68.2	57.15	6xM8	44.45H7	3.4	∅19.05	48	45.5	4.76	42.6	
	86		92	60	R3/4"	68.2	57.15	6xM8	44.45H7	3.4	∅19.05	48	45.5	4.76	42.6	
237		130				88.9	76.2	6xM8	63.5H7	3.5	∅25.4	57.15		6.35	48	

Dimensions all in mm.

# ACCESSORIES FOR AIR MOTORS

## 4/3-WAY PILOT VALVE

for use in motors with pilot-operated remote control. These valves have two connections for clockwise and counter-clockwise rotation and are available as lock-type hand operated or push-button valve.

Illustration: Push-button valve with stop button



## OILER

air motors must be serviced and lubricated. The compressed air should be clean and contain sufficient oil to ensure sufficient lubrication. Under normal conditions, 2-5 drops per m<sup>3</sup>/min are used (one drop = 0.02g).

Illustration: Steel oiler, for use directly on motor or in the hose line (before the control element)



## SERVICE UNIT WITHOUT PRESSURE REGULATOR

is a filter and oiler with an adjustable nozzle according to the dynamic pressure principle. The direction of flow is prescribed. The nozzle must be attached in the direction indicated by the arrow. The service unit will be connected to the stationary compressed air line.

Illustration: Service unit without pressure regulator



## SERVICE UNIT WITH PRESSURE REGULATOR

as described above but with a pressure regulator connected between the filter and lubricator which does not rely on starting pressure, is reversible and fitted with a manometer. The flow volume must be considered when selecting the pressure. Wherever possible, the unit should be installed less than 5 m away from the motor.

Illustration: Service unit with pressure regulator and stand



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Air Starters are designed to start up diesel engines or gas turbines. Before starting the engine the cycloid design will guarantee 100% positioning of the pinion drive on the ring gear. After adjusting, the starter will build up its highest starting torque to start the engine. Air starter Model No. 3 4055 0010 is able to start up diesel engines up to 12,000 HP (9000KW).



Model 3 4053 0010



Model 3 4054 0010



Model 3 4055 0010

## Special Features:

- High start up torque
- Low air consumption
- Pneumatic and electric control systems
- Right-hand or left-hand rotation
- Cycloid pinion drive guarantees 100% starting
- Long Life expectancy
- Driving gear made of bronze or steel
- Works in extreme thermal conditions
- SAE flange connection or clamp on
- Maintenance free
- Explosion proof design
- Integrated free running
- Closed and robust design
- Positioning and turning device (hand crank) on air starter Type 3 4055 0010

<b>Technical Specifications:</b>		<b>3 4053 0010</b>	<b>3 4054 0010</b>	<b>3 4055 0010</b>
Start-up Torque @ pmax.	T max.	ft./lbs. 63.4	174	376
Air Pressure	p <sub>operation</sub>	PSI 58-218	58-218	145-218
Nominal Speed	n <sub>operation</sub>	RPM 1500	2000	2000
Speed Range	n	RPM 0-3000	0-3000	0-3000
Power @ p <sub>operation</sub>	P	HP 4-20	16-44	60-106
Torque @ n <sub>operation</sub>	T	ft.lbs. 14-60	36-170	141-258
Air Consumption @ n <sub>operation</sub>	Q	CFM 106-953	318-1412	1642-2224
Weight		lbs. 35	88	140

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