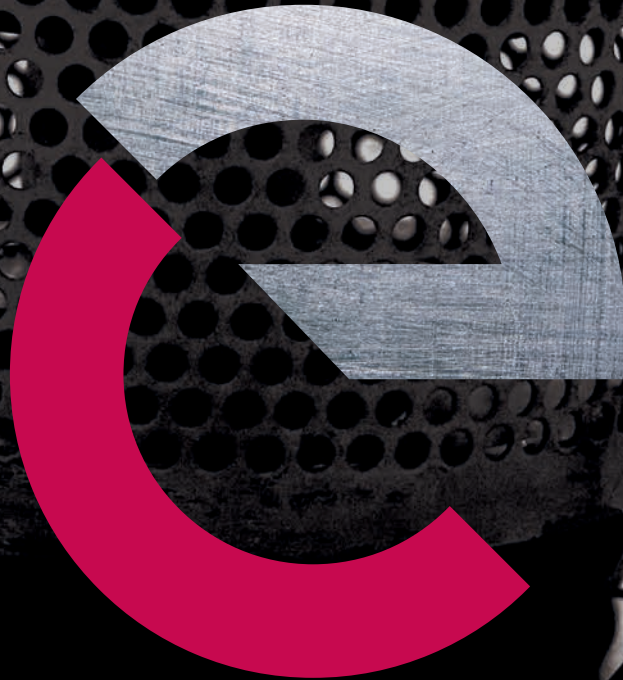





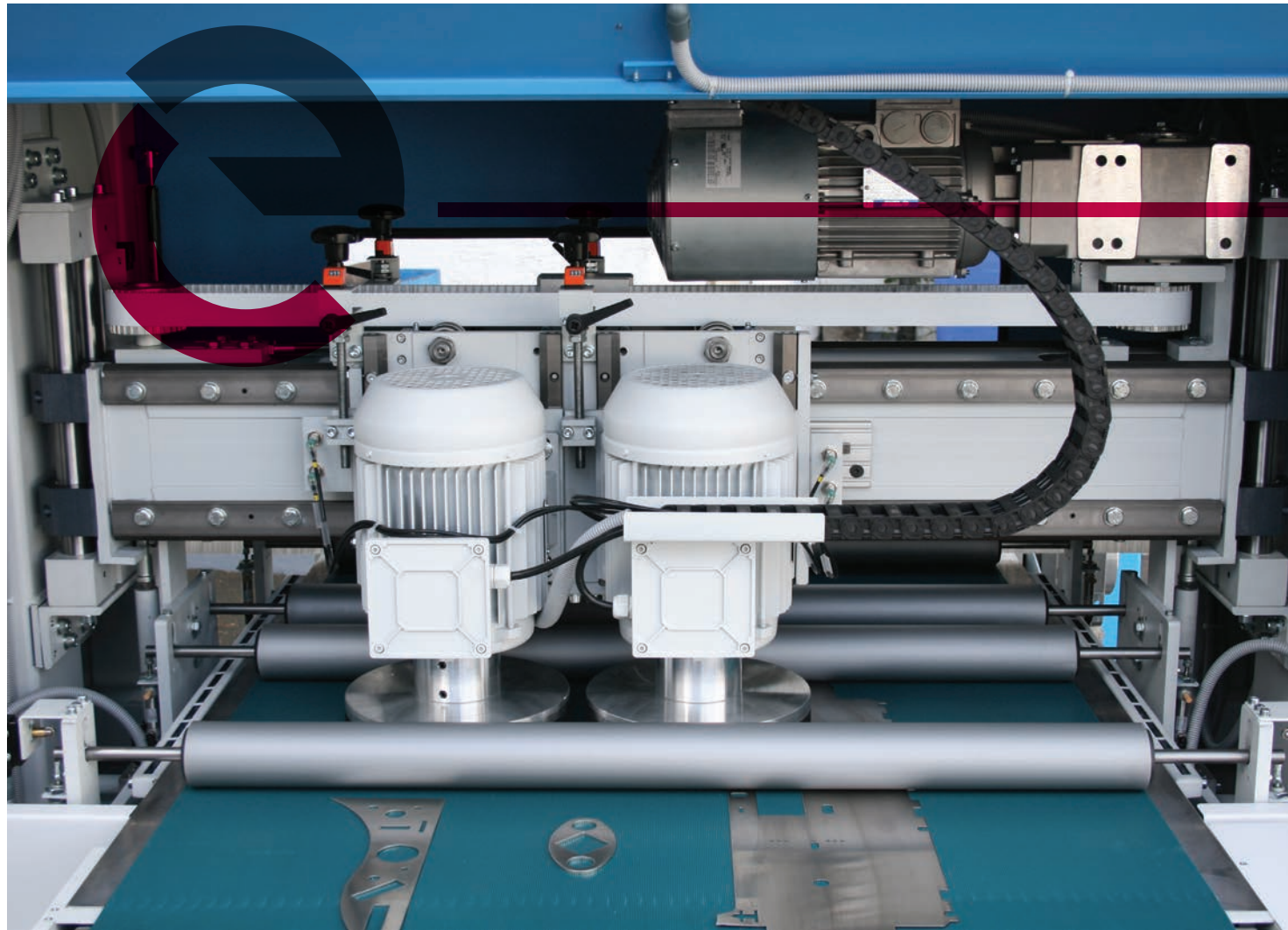
Engineering
Utilities



**LOEWER &
DEBURRSHOP**



MAKING **DEBURRING,**
EDGE ROUNDING &
EDGE OXIDE REMOVAL
EASY!



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WELCOME

Established in 1976, Engineering Utilities is a second generation family business which specialises in supplying equipment and consumables for metal preparation, finishing and cleaning to a diverse range of market sectors throughout the UK, Ireland and overseas.

With a solutions-driven approach, we have developed a well-earned reputation for providing an efficient, integral and reliable service. We regularly source bespoke machines and equipment based on a customer's specific requirements, bringing first-class innovation to the sector. This ensures that we maintain our unrivalled reputation for offering outstanding service, expert advice and quality products at competitive prices.

Our commitment to quality has led to Engineering Utilities owning the exclusive licences to distribute a number of innovative products including Eisenblatter, TIG Brush, Boeck, NS Maquinas and the revolutionary Loewer in the UK and Ireland.

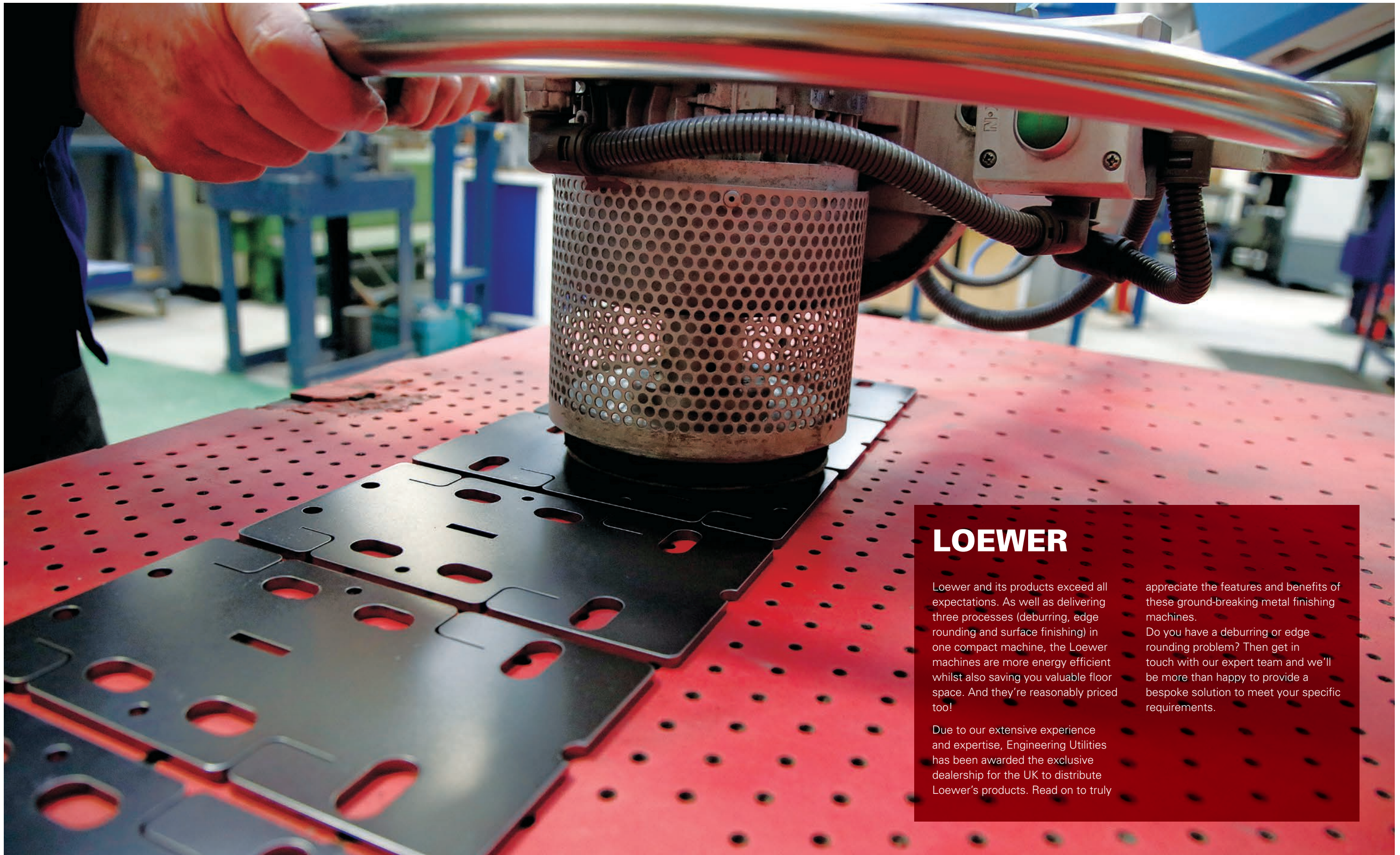
LOEWER

The metal cutting industry – whether it be laser, plasma, water jet or punching – all have a common need for high quality deburring and edge rounding. And it is our mission to constantly provide the most innovative and advanced solutions available for our customers.

It is with this in mind that led us to travel the world to find the best machines available. While there are a host of different machines with varying levels of technology, many have a number of disadvantages - high cost outlay or worse still poor build quality, large footprint, expensive consumables, operator unfriendly, ineffective and so on. That is until we tried Loewer's products...

DEBURRSHOP

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LOEWER

Loewer and its products exceed all expectations. As well as delivering three processes (deburring, edge rounding and surface finishing) in one compact machine, the Loewer machines are more energy efficient whilst also saving you valuable floor space. And they're reasonably priced too!

Due to our extensive experience and expertise, Engineering Utilities has been awarded the exclusive dealership for the UK to distribute Loewer's products. Read on to truly

appreciate the features and benefits of these ground-breaking metal finishing machines.

Do you have a deburring or edge rounding problem? Then get in touch with our expert team and we'll be more than happy to provide a bespoke solution to meet your specific requirements.

THE SWINGGRINDER

Deburring and edge rounding machine for sheet metal parts



THE ORIGINAL LOEWER SWINGGRINDER

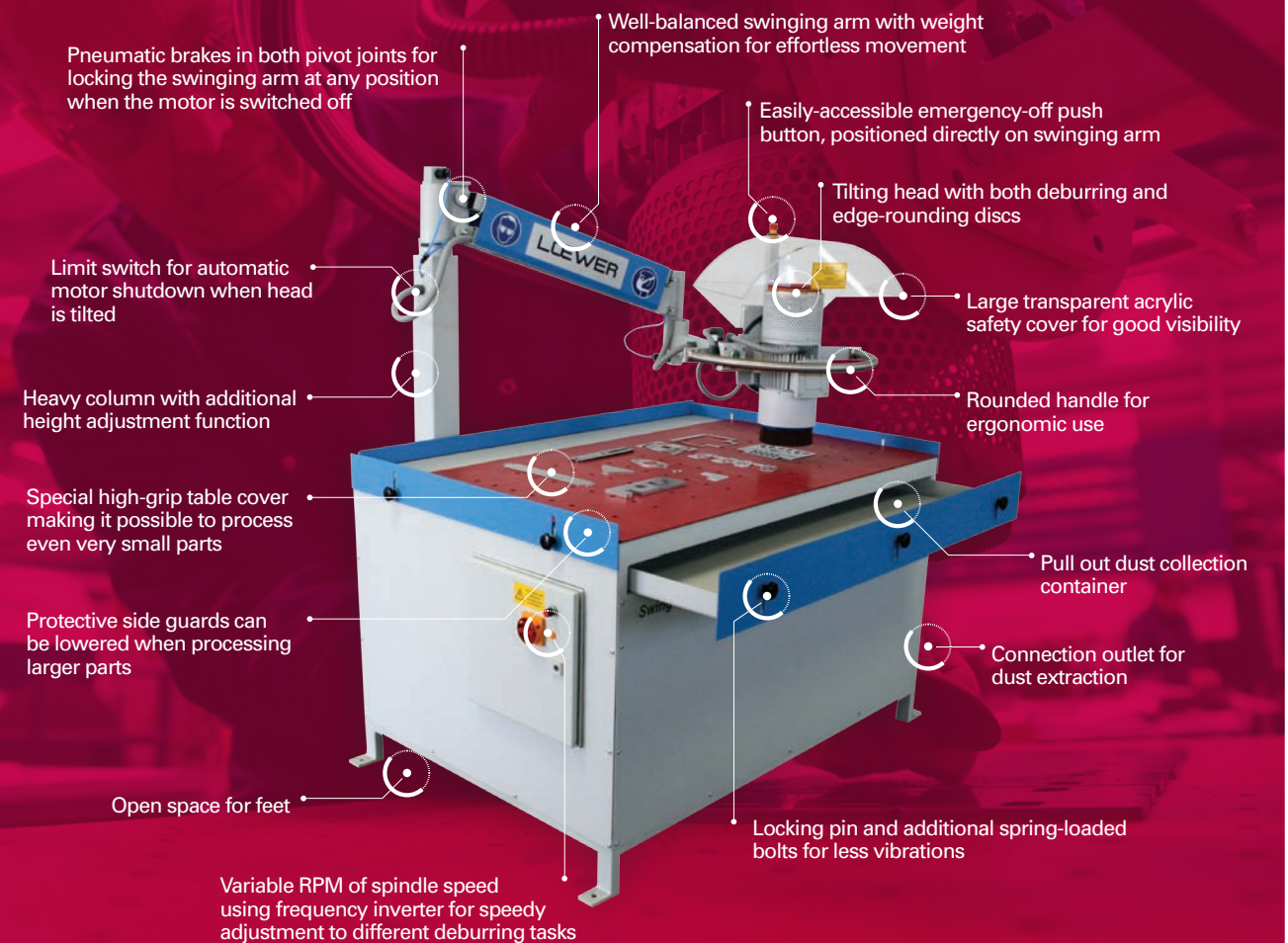
Straightforward, Fast and Great Value

Up to now there were really only two methods for deburring CNC cut sheet metal - either manually with power tools or using expensive through-feed machines.

The Loewer SwingGrinder offers a third approach. The grinding head consists of two rotating disc tools mounted to a swinging arm which in turn is equipped with a weight compensation device. This grinding unit is guided easily over the work piece by hand and grinding pressure is

applied manually from above. The inside and outside edges of the work piece are processed efficiently from all angles and directions. The grinding head can be tilted 180° - allowing for a speedy switch from a deburring disc to a rounding disc and back. The table comes with a high grip cover to prevent work pieces moving. When deburring from the top, the work pieces are pushed against the grip cover, thus allowing even small parts to be processed easily.

WELL-ENGINEERED DETAILS FOR EASY USE





OUR ADVANTAGES

Quick processing: The unit is guided easily over the work pieces whilst applying light pressure from above. The 150mm diameter discs cover a large area at one time.

Deburring/Edge Rounding: The tilting head is equipped with a deburring and an edge rounding disc making both tools available in seconds.

Ergonomically designed: The SwingGrinder is easy to use with swinging arm and weight compensation.

Processes small parts: The discs are always parallel to the table and the table is covered with a special high-grip cover thus allowing small parts to be processed easily.

Processes large parts: The table size is 1400 x 800mm. Larger parts can be processed efficiently by lowering the protective side guards.

Processes steel/stainless-steel: By changing only two tools the machine can be used for different materials.

Quick Return on Investment: Working with the SwingGrinder is up to 3-4 times quicker than manual deburring. The small initial investment and low tool costs lead to a quick return on investment.



OUR SAFETY FEATURES

The SwingGrinder is equipped with the following safety features:

- > Spindle covers on both sides
- > Automatic motor shutdown when head is tilted
- > Pneumatic brakes for locking the swinging arm at any position when the motor is switched off
- > Easily-accessible emergency-off push button
- > Large transparent acrylic safety cover over the top disc

TECHNICAL DATA

Standard features:

- > Disc unit 0,75kW with variable RPM using frequency inverter
- > Tilting head with locking pin and additional spring-supported clamping pins
- > Automatic motor shutdown when head is tilted
- > Strong swinging arm with weight compensation and pneumatic brakes
- > Table 1400 x 800mm with special high grip cover for processing small parts (from 20mm diameter)
- > Holes in table and pull-out dust collection container underneath table
Outlet D=120mm for connection to dust extraction unit.
- > An extraction unit may not always be required
- This depends on the individual grinding application.
- > 400V, 50Hz, 3P, compressed air connection, CE

Optional extras:

- > Selection of disc tools for deburring, edge rounding and finishing
- > Suitable dust extraction units for processing steel, stainless steel or aluminium.

CAUTION: Dust extraction units must be selected to suit the material being processed (danger of explosive dust). As the SwingGrinder is equipped with a high friction table cover it is not necessary to create a vacuum effect.



TEST THE SWINGGRINDER FOR YOURSELF!

Discover the easy-handling and the exceptional deburring and edge rounding results at our demonstration facilities in Leeds, or we can bring a machine to you for on-site trials.
Please enquire for further details.

DEBURRSHOP

RANGE OF TOOLS AVAILABLE FOR THE SWINGGRINDER



THE COMBI DISC

The Combi Disc is for removing heavy burrs on inside and outside edges of laser cut components, when used in conjunction with the special Velcro backed ceramic abrasive disc. The soft interface section between the two aluminium plates, enables the ceramic disc to achieve aggressive edge deburring without applying too much pressure to the surface of the component.

* Available in 60, 80 & 120 grit



THE SOFT DISC

The Soft Disc is for removing medium burrs on inside and outside edges of laser cut components, when used in conjunction with the special Velcro backed Scotch-Brite abrasive disc. The soft rubber surface enables the Scotch-Brite discs to achieve very effective edge deburring without applying too much pressure to the surface of the component.

* Available in coarse, medium & fine



THE DEBURRING DISC

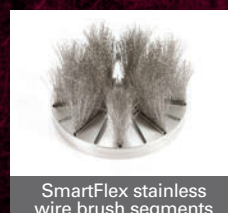
(Refer to the DeburrShop section of this brochure for the range of different specifications available to suit your particular requirements)

The Medium Disc is for edge rounding components after they have been processed with either the Combi Disc or the Soft Disc – or straight from the cutting machine if there is only light burrs present. The flexible combination of Scotch-Brite and abrasive cloth enables a rapid and effective edge rounding process on inside and outside edges of components.



THE SMARTFLEX DISC

The Smart Flex Disc is special slotted aluminium carrier for taking either the abrasive/brush segments or the stainless steel wire brush segments. The abrasive/brush option is designed for edge rounding; components that have protective plastic coating on, galvanized components or 3D parts with stamped or drawn forms. The stainless steel brush segments are designed for removing the oxide on the cut face of the metal components.



THE CROSSMASTER DD

Compact deburring and edge rounding machine for small sheet metal parts



THROUGH-FEED DEBURRING AND EDGE ROUNDING MACHINE

The **CrossMaster DD** is equipped with two disc units, one for deburring and one for edge rounding. The work pieces are placed on a high-friction feed belt. The disc tools are parallel to the work piece and push the work piece against the feed belt during operation. As a result, it is possible on a disc-only machine to process even very small work pieces starting from 20 x 20mm. The CrossMaster DD is available in working widths of 150mm or 300mm.

ADVANTAGES

Deburring and edge rounding in one pass

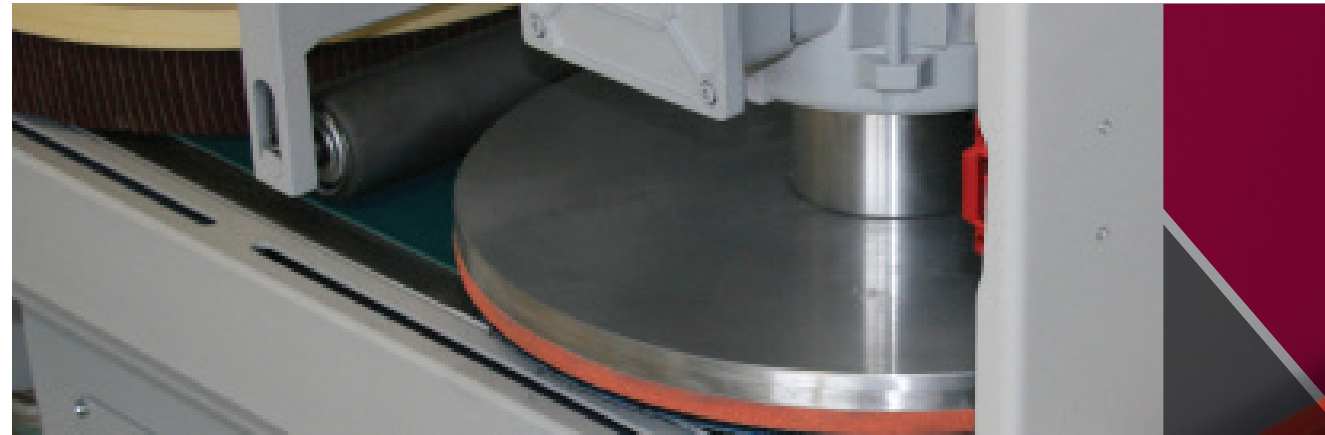
Removal of higher burrs and spatters

Uniform wearing of tools irrespective of size of work piece or where it is placed on the feed belt

Quick change of tools and easy setting when processing steel/stainless steel

Processes very small parts from 20mm diameter

Great variety of abrasive tools for different applications



TECHNICAL DATA

2 disc units from top, for disc diameter

Max. working width (width of feed belt)

Disc drive, each disc

Height adjustment by handwheel with digital counter

Separate height adjustment of each disc to compensate for tool wear

Variable feed speed using frequency inverter

Brush strip below feed belt for removing loose dust

Spring-loaded hold down rollers for longer work pieces

Dust extraction connection outlet, diameter 400V, 50Hz, 3P, CE-certification

250mm

50mm

0,75kW, 750 UPM

0 - 100mm

standard

1 - 6m/min

standard

3 pieces

1 x 150mm

400mm

300mm

1,5kW, 750 UPM

0 - 100mm

standard

1 - 6m/min

standard

3 pieces

1 x 150mm

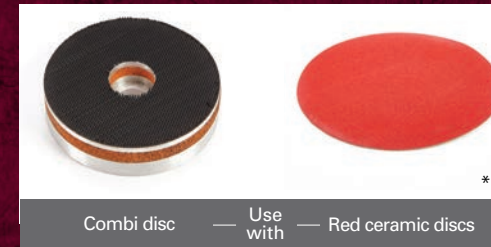
Optional Extras

- > Variable RPM of discs using two frequency inverters, each disc can be set separately
- > Rotating cleaning brush under feed belt for dust removal
- > Motorized height adjustment with push buttons up/down



DEBURRSHOP

RANGE OF TOOLS AVAILABLE FOR CROSSMASTER DD



Combi disc — Use with — Red ceramic discs *

THE COMBI DISC

The Combi Disc is for removing heavy burrs on inside and outside edges of laser cut components, when used in conjunction with the special Velcro backed ceramic abrasive disc. The soft interface section between the two aluminium plates, enables the ceramic disc to achieve aggressive edge deburring without applying too much pressure to the surface of the component.

* Available in 60, 80 & 120 grit



Soft disc — Use with — Scotch Brite abrasive discs *

THE SOFT DISC

The Soft Disc is for removing medium burrs on inside and outside edges of laser cut components, when used in conjunction with the special Velcro backed Scotch-Brite abrasive disc. The soft rubber surface enables the Scotch-Brite discs to achieve very effective edge deburring without applying too much pressure to the surface of the component.

* Available in coarse, medium & fine



260 Blue edition

THE DEBURRING DISC

(Refer to the DeburrShop section of this brochure for the range of different specifications available to suit your particular requirements)

The Medium Disc is for edge rounding components after they have been processed with either the Combi Disc or the Soft Disc – or straight from the cutting machine if there is only light burrs present. The flexible combination of Scotch-Brite and abrasive cloth enables a rapid and effective edge rounding process on inside and outside edges of components.



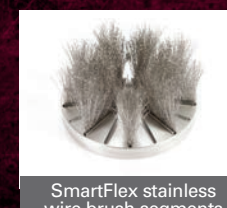
SmartFlex Disc



SmartFlex abrasive & Brush segments

THE SMARTFLEX DISC

The Smart Flex Disc is special slotted aluminium carrier for taking either the abrasive/brush segments or the stainless steel wire brush segments. The abrasive/brush option is designed for edge rounding; components that have protective plastic coating on, galvanized components or 3D parts with stamped or drawn forms. The stainless steel brush segments are designed for removing the oxide on the cut face of the metal components.



SmartFlex stainless steel wire brush segments

THE CROSSMASTER 2TD - 50

Deburring and edge rounding machine for laser and punched sheet metal

Deburring and edge rounding in one pass. The Crossmaster 2Td is equipped with one large deburring disc and one large edge rounding disc. The discs oscillate continuously over the work piece during the through feed.



THIS UNIQUE TECHNOLOGY HAS SEVERAL ADVANTAGES:

Deburring and edge rounding in one pass

All inside and outside edges are processed from all angles and directions

Working width 500mm and for small parts from 20 x 20mm

Uniform wearing of abrasive tools irrespective of the size of the work piece or where it is placed on the conveyor belt. The machine can therefore process wider parts without having to calibrate any tools.

When processing mixed materials (*i.e. steel/stainless-steel*) the tools must be changed. The two discs on the CrossMaster 2TD can be changed within minutes.

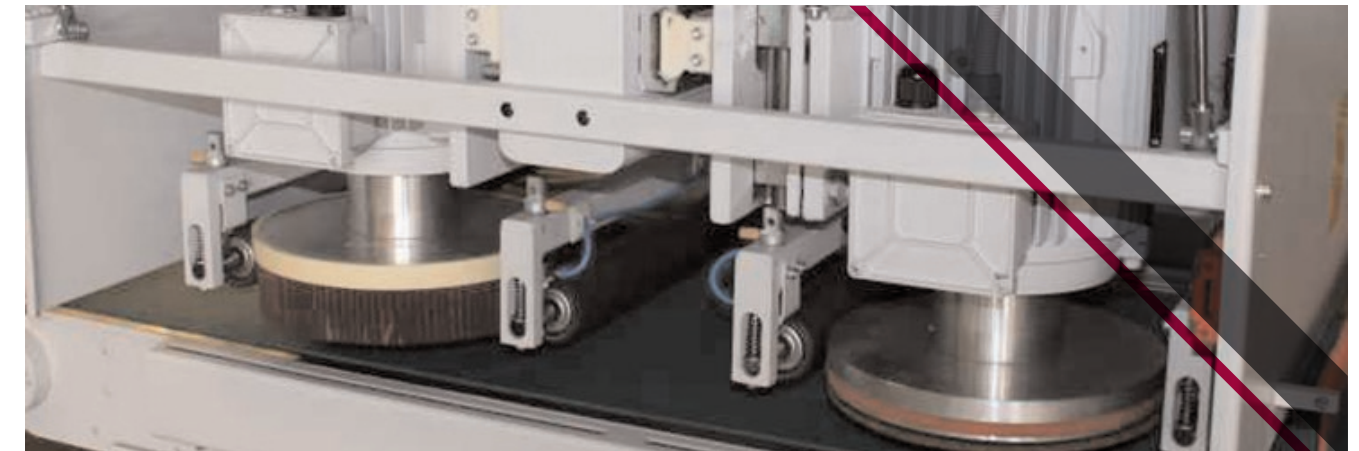
A large variety of disc tools are available on the market. This keeps tooling costs down and increases the versatility of the machine.

Low investment, low tooling costs and low operating costs ensure a speedy return on investment.

HOW THE MACHINE WORKS

The work piece passes through the machine on a conveyor belt. A rotating deburring disc and a rotating edge rounding disc, oscillate continuously over the work piece during through feed. All inside and outside edges are processed uniformly from all angles and directions.

The work pieces are placed on a high friction feed belt. Spring mounted hold down rollers push the work piece under the discs. The disc tools also push the work piece against the feed belt during operation so it is possible to process even very small work pieces starting from 20 x 20mm.



TECHNICAL DATA

- > Max. Working width 500mm, work piece thickness 1 - 100mm
- > One disc on in feed side, one disc on out feed side, each 2,2kw, 750 RPM, diameter 250mm, separate height adjustment for compensation of tool wearing
- > Oscillation by gear motor 0,75kW, infinitely variable oscillation speed
- > High friction feed belt with infinitely variable feed speed 1-6m/min
- > 4 spring loaded hold down rollers with pneumatically controlled lifting device
- > Adjustment of work piece thickness using hand wheel with mechanical digital display
- > Brush strips under feed belt for wiping off dust on the feed belt
- > Dust extraction connection 1 x 150mm diameter
- > 400V, 50Hz, 3P
- > Length 1500mm, width 1400mm 900kg

Optional Extras

- > Infinitely variable RPM of discs 400-1600RPM using two frequency inverters (for in feed disc and out feed disc separately)
- > Integrated rotating cleaning brush for feed belt
- > Motorized height adjustment of work piece thickness



DEBURRSHOP

RANGE OF TOOLS AVAILABLE FOR **CROSSMASTER 2TD-50**



THE COMBI DISC

The Combi Disc is for removing heavy burrs on inside and outside edges of laser cut components, when used in conjunction with the special Velcro backed ceramic abrasive disc. The soft interface section between the two aluminium plates, enables the ceramic disc to achieve aggressive edge deburring without applying too much pressure to the surface of the component.

* Available in 60, 80 & 120 grit



THE SOFT DISC

The Soft Disc is for removing medium burrs on inside and outside edges of laser cut components, when used in conjunction with the special Velcro backed Scotch-Brite abrasive disc. The soft rubber surface enables the Scotch-Brite discs to achieve very effective edge deburring without applying too much pressure to the surface of the component.

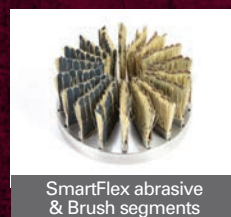
* Available in coarse, medium & fine



THE DEBURRING DISC

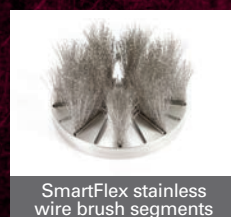
(Refer to the DeburrShop section of this brochure for the range of different specifications available to suit your particular requirements)

The Medium Disc is for edge rounding components after they have been processed with either the Combi Disc or the Soft Disc – or straight from the cutting machine if there is only light burrs present. The flexible combination of Scotch-Brite and abrasive cloth enables a rapid and effective edge rounding process on inside and outside edges of components.



THE SMARTFLEX DISC

The Smart Flex Disc is special slotted aluminium carrier for taking either the abrasive/brush segments or the stainless steel wire brush segments. The abrasive/brush option is designed for edge rounding; components that have protective plastic coating on, galvanized components or 3D parts with stamped or drawn forms. The stainless steel brush segments are designed for removing the oxide on the cut face of the metal components.

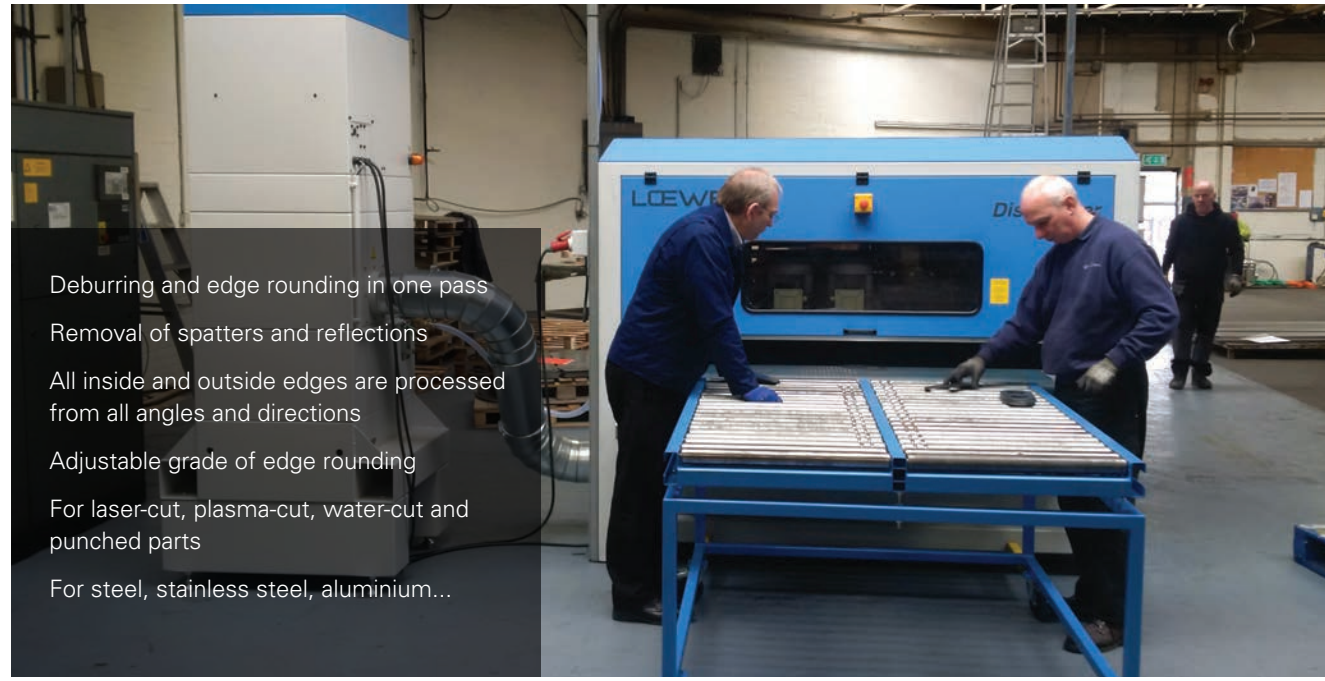


THE DISCMASTER 4TD

Deburring and edge rounding machine for sheet metal

Through-feed deburring and edge rounding. The Discmaster 4TD is equipped with four disc units which oscillate continuously over the full width of the feed belt. This unique technology offers greater advantages compared to conventional deburring machines.

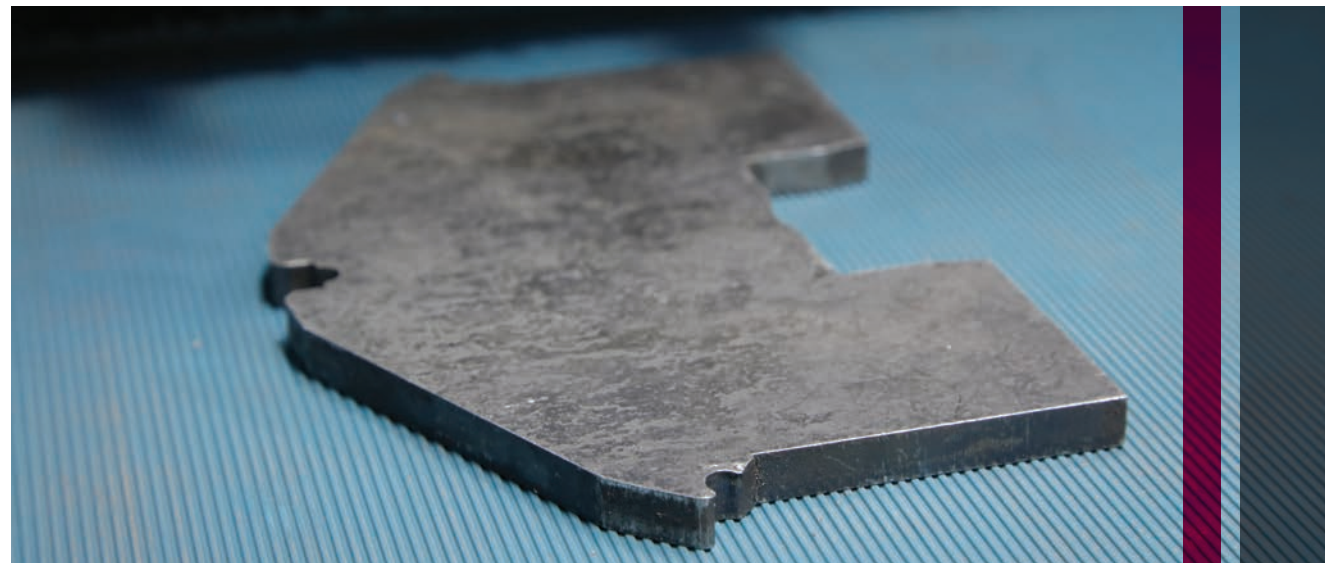
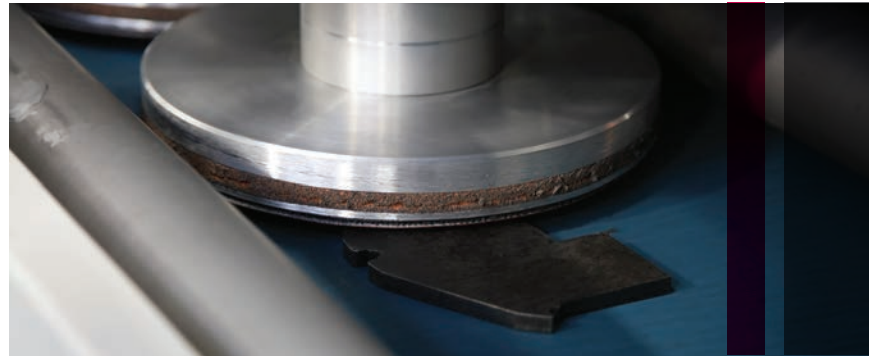




Deburring and edge rounding in one pass
 Removal of spatters and reflections
 All inside and outside edges are processed from all angles and directions
 Adjustable grade of edge rounding
 For laser-cut, plasma-cut, water-cut and punched parts
 For steel, stainless steel, aluminium...

HOW IT WORKS: The 360 Processing Principle

The work pieces are placed on a conveyor belt. Two rotating deburring discs and two rotating edge-rounding discs oscillate continuously over the full width of the work piece during the through-feed. All inside and outside edges are processed from all angles and directions. The result is uniform deburring and edge rounding independent of the orientation of the cutting contours.



THE ADVANTAGES

Deburring

The flexible pad on the Soft-Disc leads to an aggressive grinding action at the edges of the work piece while applying very little pressure to the surface. The Soft-Discs will remove burrs and spatters.

Edge rounding

The large 250mm diameter Medium-Discs offer thorough edge rounding. Due to the 360° processing principle very uniform results are achieved on all inside and outside edges of the work piece.

Small parts

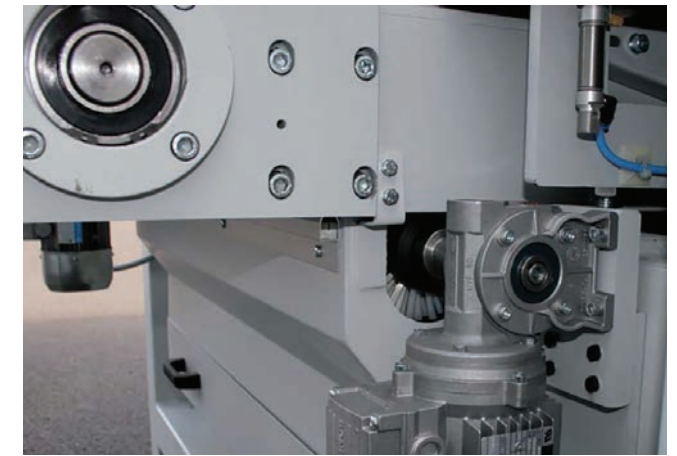
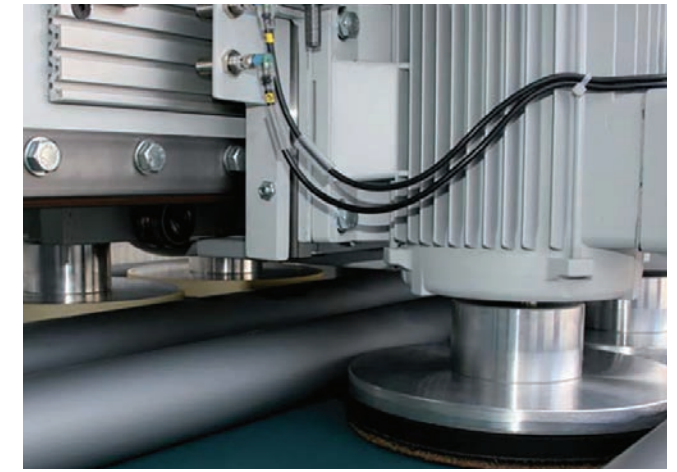
The work pieces are placed on a high-friction feed belt. The disc tools are parallel to the work piece and push the work piece against the feed belt during operation. As a result it is possible with a disc-only machine to process even very small work pieces starting from 20 x 20mm. For small parts the oscillation stroke can be reduced.

Larger parts

The Discmaster 4TD is available in working widths of 1000mm or 1500mm. Spring-loaded hold down rollers are applied pneumatically when running larger parts.

3-dimensional parts

Parts with stamped or drawn forms can be processed with the Smart-Flex discs for raised and lower parts of the work piece.



Foil-laminated/zinc-plated parts

These parts are processed with the Medium-Discs or the Smart-Flex discs. By reducing the spindle RPM (optional extra) the tools work very gently without destroying the foil or taking off too much zinc.

Material mix

When processing mixed materials (i.e. steel/stainless steel) the tools must be changed. As the Discmaster 4TD works with only four discs these can be changed quickly within a few minutes. All four disc units are individually adjustable in height in order to compensate for different tool thicknesses.

Uniform wearing of tools

As the discs oscillate over the full width of the feed belt the abrasive tools wear evenly irrespective of the size of the work piece or where it is placed on the conveyor belt. The machine can therefore process wider parts without having to calibrate any tools.

Costs

This "disc only" concept makes it possible to dispense with expensive vacuum or magnetic hold down features and thus allows the machine to be priced competitively. Low energy consumption and inexpensive abrasive costs ensure a speedy return on investment.



TECHNICAL DATA

Standard Features

Discmaster 4TD-1000 (4TD-1500):

- > Max. Working width 1000mm (1500mm)
- > Two disc units at in feed, two disc units at out feed, for
- > disc diameter 250mm
- > Height adjustment using handwheel with digital counter
- > Separate height adjustment of each individual disc, each with digital counter
- > Oscillation by gear motor and tooth belt, variable oscillation speed using frequency inverter
- > Oscillation with two strokes (full width or small parts)
- > Conveyor belt feed using gear motor, variable feed speed 1-5m/min using frequency inverter
- > Automatic tracking of conveyor belt, pneumatically controlled
- > Four spring-loaded hold down rollers with pneumatic lifting
- > Brush strip under conveyor belt for removing loose dust
- > Dust extraction connection outlet 1 x 200mm diameter
- > 400V, 50Hz, 3P, 11.5kW, connection for compressed air
- > Length 1900mm, width 1900mm (2400mm)
- > CE

Optional Extras:

- > Variable RPM of disc units using two frequency inverters (separately for in feed and out feed discs)
- > Integrated rotating brush for cleaning conveyor belt
- > Motorized height adjustment with push buttons up/down
- > Suitable dust extraction units for steel, stainless steel or aluminium
- > Surface conditioning abrasives: D=250mm, grit size 100, 180 and 240 (deburring)
- > Ceramic abrasive discs: grit size 60/80/120 (deburring))
- > Medium-Disc: D=250mm, grit size 40/80/120
- > Nylon-coated abrasives: D=250mm, medium, very fine (finish)
- > Smart-Flex-Disc: abrasive grit size 80/100/120/150/180 (Edge rounding))



LOEWER // Deburring, edge rounding & oxide removal specialists

DEBURRSHOP

RANGE OF TOOLS AVAILABLE FOR CROSSMASTER 4TD



Combi disc — Use with — Red ceramic discs *

THE COMBI DISC

The Combi Disc is for removing heavy burrs on inside and outside edges of laser cut components, when used in conjunction with the special Velcro backed ceramic abrasive disc. The soft interface section between the two aluminium plates, enables the ceramic disc to achieve aggressive edge deburring without applying too much pressure to the surface of the component.

* Available in 60, 80 & 120 grit



Soft disc — Use with — Scotch Brite abrasive discs *

THE SOFT DISC

The Soft Disc is for removing medium burrs on inside and outside edges of laser cut components, when used in conjunction with the special Velcro backed Scotch-Brite abrasive disc. The soft rubber surface enables the Scotch-Brite discs to achieve very effective edge deburring without applying too much pressure to the surface of the component.

* Available in coarse, medium & fine



260 Green edition

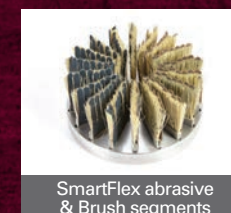
THE DEBURRING DISC

(Refer to the DeburrShop section of this brochure for the range of different specifications available to suit your particular requirements)

The Medium Disc is for edge rounding components after they have been processed with either the Combi Disc or the Soft Disc – or straight from the cutting machine if there is only light burrs present. The flexible combination of Scotch-Brite and abrasive cloth enables a rapid and effective edge rounding process on inside and outside edges of components.



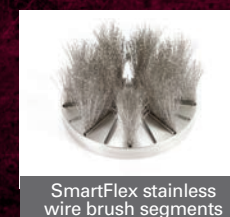
SmartFlex Disc



SmartFlex abrasive & Brush segments

THE SMARTFLEX DISC

The Smart Flex Disc is special slotted aluminium carrier for taking either the abrasive/brush segments or the stainless steel wire brush segments. The abrasive/brush option is designed for edge rounding; components that have protective plastic coating on, galvanized components or 3D parts with stamped or drawn forms. The stainless steel brush segments are designed for removing the oxide on the cut face of the metal components.



SmartFlex stainless steel wire brush segments

THE BELTMASTER K-4TD

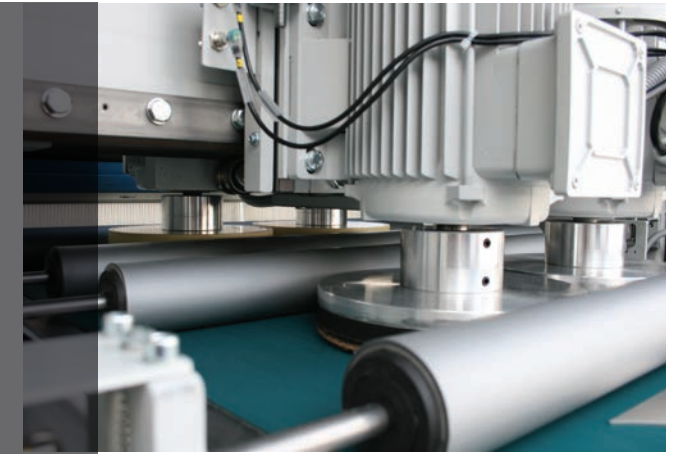
Versatile grinding, deburring and edge rounding machine

The Beltmaster K-4TD is equipped with one abrasive belt unit followed by two oscillating disc units, each with two large rotating discs, making it ideal for grinding, deburring, edge rounding and oxide removal.



THE ADDITIONAL ABRASIVE BELT UNIT

The Beltmaster K-4TD is based on our unique tried and tested Discmaster 4TD but features an additional abrasive belt unit on the in feed side. The abrasive belt unit removes higher burrs or creates a grinding finish on the material (option „variable belt speed“ required). A large variety of abrasive belts and nylon abrasive belts are available for different applications.



THE 360° PROCESSING PRINCIPLE

The work pieces are placed on a conveyor belt. The abrasive belt unit will remove higher burrs. Two rotating discs in the centre of the machine followed by two rotating discs at the out feed side oscillate continuously over the full width of the work piece. Inside and outside edges are processed from all angles and directions. The result is uniform deburring and edge rounding independent of the orientation of the cutting contours.

It is possible to use different disc tools in the centre and on the out feed discs, depending on the application.

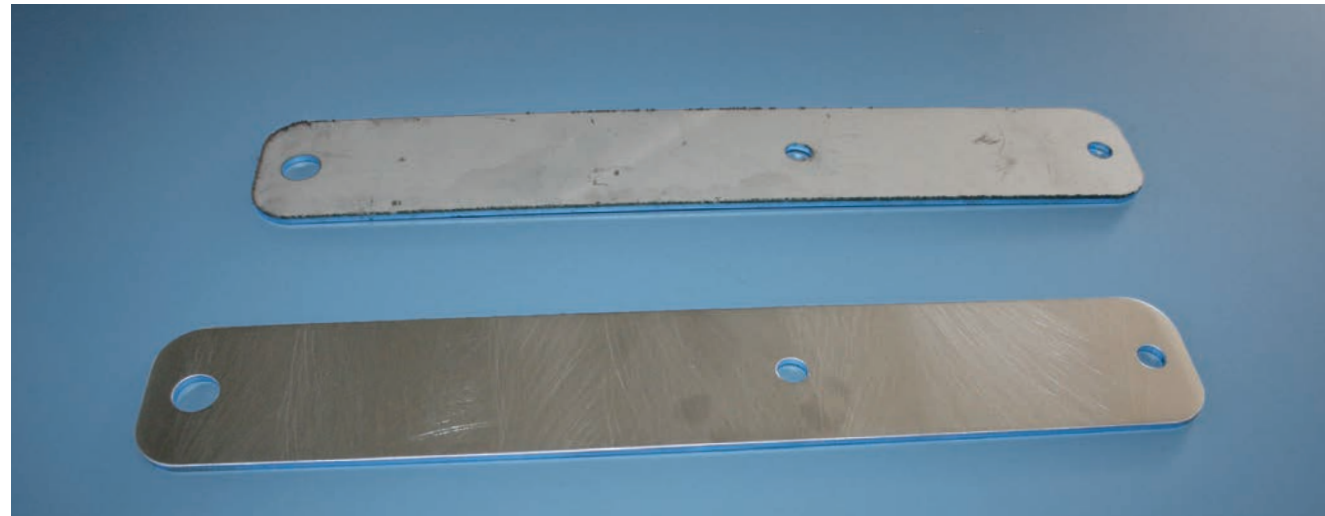
THE POSSIBILITIES

Deburring

The abrasive belt unit with 15kW drive motor is capable of removing even high burrs. Abrasive belts have their limitations when it comes to smaller parts shorter than 200mm. With our Beltmaster the contact drum can be lifted and small parts can be deburred using the two centre featuring our Combidisc tools. These tools can also deburr large parts with a maximum burr of 3mm. As a result the abrasive belt unit is only needed for larger parts with higher burrs.

Edge rounding

The large 250mm diameter Medium-Discs offer thorough edge rounding. Due to the 360° processing principle very uniform results are achieved. If stronger edge rounding is required it is possible to use coarser medium discs on the centre disc units and additional medium discs on the out feed Disc units. Four discs with full-width-oscillation for uniform 360° processing, individually adjustable in height Rotating cleaning brush for feed belt (option)



Oxide removal

Oxide on the side edges can be removed using stainless steel wire brushes. These wires tend to bend in one direction after a while and it is then possible to change the rotation direction of the discs for compensation.

Grinding

The abrasive belt unit is used to create a grinded finish on the surface. Different finishes can be achieved using different abrasive belts or nylon abrasive belts. (optional variable belt speed is required for grinding).

Small parts

Small parts can be processed using discs only. The disc tools are parallel to the table and push the work pieces against the high friction feed belt during operation. As a result it is possible to process even very small work pieces starting from 20 x 20mm. For small parts the oscillation stroke can be reduced.

Bigger parts

The maximum working width is 1350mm. For bigger parts hold down rollers can be activated pneumatically.



ONE PASS OPERATIONS

Depending on the setting

- > Deburring, oxide removal and edge rounding in one pass
- > Deburring higher parts of burrs, additional deburring and edge rounding in one pass
- > Deburring, coarse edge rounding and finer edge rounding in one pass
- > Deburring and edge rounding of small parts with discs only
- > Finish grinding with abrasive belt only

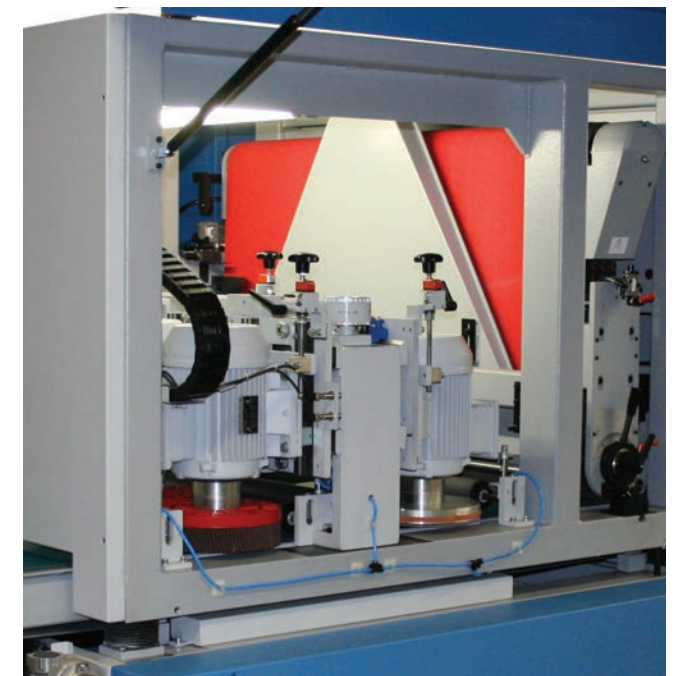


TECHNICAL DATA

- > Max. Working width 1350mm
- > Abrasive belt motor 15kW, contact drum D=180mm, with spiral grooved rubber roller and height adjustment
- > Two discs in the centre, two discs at the out feed, disc diameter 250mm
- > Separate height adjustment with digital read-out of each individual disc for compensation of tool wear and different tool thickness
- > Oscillation by gear motor and tooth belt, variable oscillation speed using frequency inverter
- > Oscillation with two strokes (full width or small parts)
- > Conveyor belt feed using gear motor, variable feed speed 1-8m/min using frequency inverter
- > Automatic tracking of conveyor belt, pneumatically-controlled
- > Spring loaded hold down rollers, pneumatic lifting at disc area
- > Motorized height adjustment using gear-motor, electronic digital display
- > Brush strip under conveyor belt for removing loose dust
- > Dust extraction connection 1 x 180mm, 1 x 150mm diameter
- > 400V, 50Hz, 3P, 8 bar air supply
- > Length 2590mm, width 2000mm, height 1950mm
- > CE

Optional Extras

- > Variable speed of abrasive belt 7-18m/min using frequency inverter (deburring, grinding)
- > Variable RPM of disc units using two frequency inverters (separately for centre and out feed discs)
- > Integrated rotating brush for cleaning conveyor belt
- > Magnetic track 250mm wide, (oxide removal of small parts)
- > Suitable dust extraction units
- > Abrasive belts and nylon abrasive belts 1370 x 1900mm
- > Wide variety of disc tools



DeBURRSHOP

RANGE OF TOOLS AVAILABLE FOR DISCMASTER K4-TD



THE COMBI DISC

The Combi Disc is for removing heavy burrs on inside and outside edges of laser cut components, when used in conjunction with the special Velcro backed ceramic abrasive disc. The soft interface section between the two aluminium plates, enables the ceramic disc to achieve aggressive edge deburring without applying too much pressure to the surface of the component.

* Available in 60, 80 & 120 grit



THE SOFT DISC

The Soft Disc is for removing medium burrs on inside and outside edges of laser cut components, when used in conjunction with the special Velcro backed Scotch-Brite abrasive disc. The soft rubber surface enables the Scotch-Brite discs to achieve very effective edge deburring without applying too much pressure to the surface of the component.

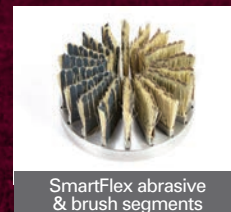
* Available in coarse, medium & fine



THE DEBURRING DISC

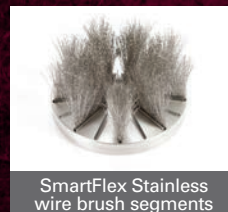
(Refer to the DeburrShop section of this brochure for the range of different specifications available to suit your particular requirements)

The Medium Disc is for edge rounding components after they have been processed with either the Combi Disc or the Soft Disc – or straight from the cutting machine if there is only light burrs present. The flexible combination of Scotch-Brite and abrasive cloth enables a rapid and effective edge rounding process on inside and outside edges of components.



THE SMARTFLEX DISC

The Smart Flex Disc is special slotted aluminium carrier for taking either the abrasive/brush segments or the stainless steel wire brush segments. The abrasive/brush option is designed for edge rounding; components that have protective plastic coating on, galvanized components or 3D parts with stamped or drawn forms. The stainless steel brush segments are designed for removing the oxide on the cut face of the metal components.



THE ABRASIVE BELT

Please speak to one of our consultants to discuss the best abrasive belt specification for your particular requirements. We carry a range of belts 1370 x 1900mm in various abrasive minerals and backing configurations.

THE DISCMASTER SF

Deburring, edge removal and oxide removal machine



360° DEBURRING AND EDGE ROUNDING FROM TOP AND BOTTOM

The Discmaster SF is equipped with oscillating disc stations on the top and on bottom. These discs with flexible abrasive sanding strips rotate and oscillate over the work piece. The inside and outside edges are processed from all angles and directions resulting in uniform edge rounding independent of the orientation of the cutting contours.



THE WORK PIECE TRANSPORT

- > Work pieces are fed through the machine by rubber covered rollers with adjustable feed speed
- > The sanding strips can be set below the level of the rollers a big advantage over a feed belt drive
- > Three-dimensional formed parts can be processed due to the softness of the feed rollers



THE ADVANTAGES

- > Top and bottom processing in one pass
- > Uniform 360° edge rounding independent of direction of contour
- > Adjustable grade of edge rounding
- > Possible to set abrasives below roller level
- > For laser-cut or punched parts
- > For flat or formed parts
- > For oxide removal
- > Very gentle on surface when processing zinc-coated or foiled parts
- > Low energy consumption
- > Silent processing
- > Very forgiving with differences in material thickness
- > Easy to use Touch Panel

THE DISCMASTER SF IS AVAILABLE IN TWO DIFFERENT MODELS

Discmaster SF1/1:

One oscillating disc station from top, one from the bottom, in 1000mm or 1500mm working width. This is the economical model for 360° top and bottom processing.

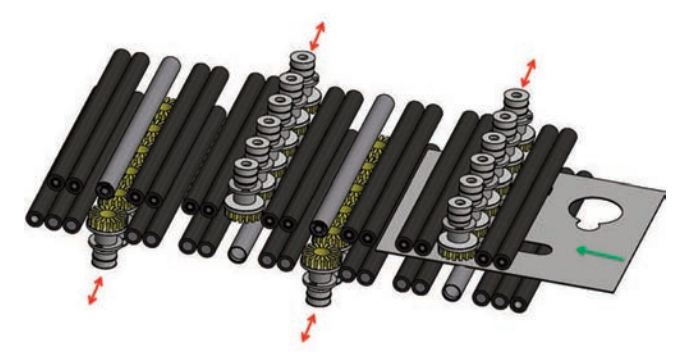
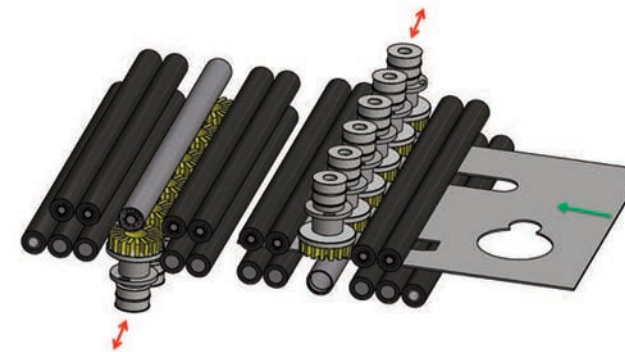
When equipped with Smart-Flex sanding strips it is ideal for deburring/edge rounding formed parts, zinc-coated parts or foiled sheet metal - parts which are difficult for standard abrasive belt deburring machines.

When equipped with stainless steel wire brushes the machine is ideal for 360° oxide removal in one pass.

Discmaster SF 2/2:

Two oscillating disc stations from top, two from the bottom, in 1000mm or 1500mm working width. For more pronounced edge rounding it is possible to use different grit sizes, e.g. grit 60 on the first and grit 80 on the second units.

When using Smart-Flex sanding strips on the first and stainless steel wire brushes on the second units the machine is ideal for edge rounding and oxide removal of laser cut steel parts in one pass.



TouchPanel Control

The Discmaster SF is equipped with a modern Touch Panel Controls and step motors for quick and exact setting. The disc units, oscillation motors and the feed speed are adjustable using frequency inverters. Also it is possible to store machine programs and the machine is very easy to use..

Even wearing of abrasive tools

The optional work piece scanning device detects the position of the work pieces in the machine. Lights on the in feed side show the operator where to preferably place the next work piece on the conveyor rollers in order to achieve an even wearing of the abrasives. This simple but effective solution will keep the abrasive costs down.



DEBURRSHOP



SmartFlex stainless wire brush segments

Grooved discs for holding sanding strips



SmartFlex abrasive & brush segments

Stainless steel wire brushes for oxide removal



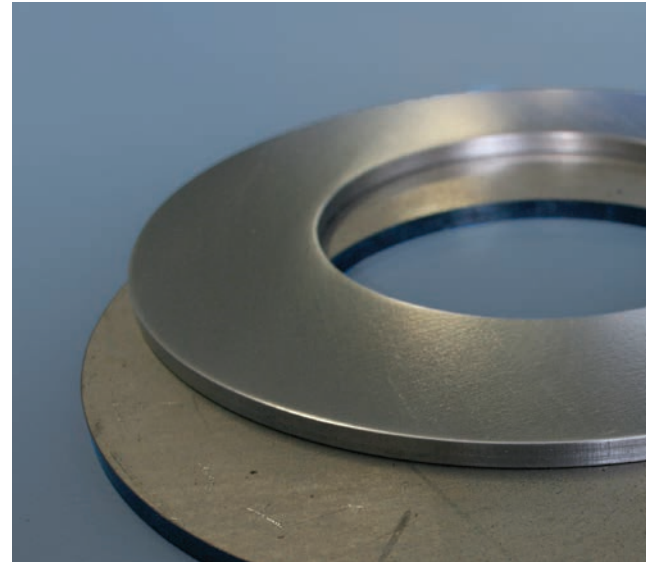
SmartFlex Disc

High quality abrasive sanding strips available in different heights, grit sizes, cutting widths and support brushes

TECHNICAL DATA

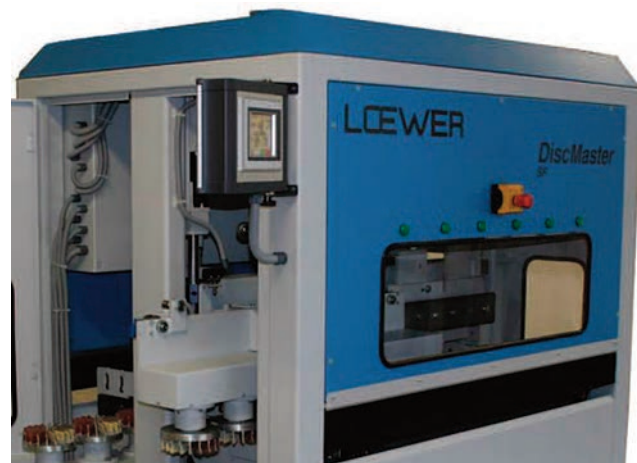
Discmaster SF 1/1 - 1000 (1500)

- > Max. Working width 1000mm (1500mm)
- > One disc station top, one disc station bottom
- > Disc station with 6 discs (9 discs), with separately variable RPM using frequency inverters, separate height adjustment by step motor, individual oscillation by gear motor, disc diameter 150mm
- > Rubber-covered feed rollers and rubber covered spring loaded hold down rollers, variable feed speed 0,5 - 4m/min by frequency inverter
- > Motorized height adjustment of work piece thickness
- > Touch Panel controls
- > CE



Discmaster SF 2/2 - 1000 (1500)

- > Max. Working width 1000mm (1500mm)
- > Two disc station top, two disc station bottom
- > Disc station with 6 discs (9 discs), with separately variable RPM using frequency inverters, separate height adjustment by step motor, individual oscillation by gear motor, disc diameter 150mm
- > Rubber-covered feed rollers and rubber covered spring loaded hold down rollers, variable feed speed 0,5 - 4m/min by frequency inverter
- > Motorized height adjustment of work piece thickness
- > CE



Optional Extras:

- > Work piece scanning device with indication lights for a more even wearing of abrasive tools
- > Large range of Smart-Flex sanding strips
- > Stainless steel wire brushes for oxide removal
- > Suitable dust extraction units

THE SMARTGRINDER 150

The affordable through feed abrasive belt grinding machine for metal



Highly versatile: Grinding, bur removing or finishing of flat bar, sheet metal or hollow sections. The wet grinding facility makes it ideal for a mixed production of steel, stainless steel or aluminium.

First class surface results are achieved by using the wet grinding facility with constant through-feed speed and constant grinding pressure. The SmartGrinder can be used with abrasive belts in grit sizes of 40-400, super finish belts, abrasive nylon belts or different kinds of brushes/wheels.

Great value for money made possible by manufacturing a large number of machines with standard features. A lot of machine parts have been used from our top of the range model FST.

SmartGrinder Highlights

- > Highly versatile due to wet system and use of belts or wheels
- > Separate height adjustment of each unit
- > Quick change of feed belt, special feed belt available for processing short pieces
- > Perfect grinding of hollow sections using the optional extra "floating head" (no bending, no blue surface)

HOW THE MACHINE WORKS:

SmartGrinder models with one or two stations use the same machine frame. This way the second unit can be fitted to a single unit machine even at a later date. Each station has its own height adjustment for easy and quick setting of the machine. The hold-down rollers can be easily adjusted in height and distance to compensate for different diameters of contact wheels and abrasive wheels.



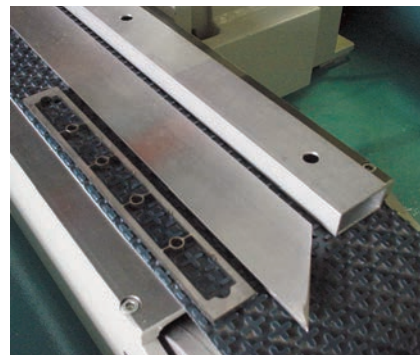
TECHNICAL DATA

- > Spring loaded abrasive belt tensioning
- > Abrasive belt 150 x 2000mm
- > Rubber covered and grooved contact wheel D=150mm
- > Rubber covered and spring- loaded hold-down rollers, easy to pre-adjust
- > Variable speed of feed belt 2-9m/min
- > Upper collecting basin
- > Lower basin including electrical pump
- > Large idler wheels with big bearings
- > Fine tracking adjustment of abrasive belt
- > Amperemeter
- > Abrasive belt motor 4kW
- > Two jet water outlets for each belt
- > Emergency-off at in feed bar and emergency-off by opening doors
- > Feed belt with fixed height
- > Open table for quick changing of feed belt
- > Front hand wheel for height adjustment, including digital read-out

SmartGrinder in 150mm working width

- SG 150 K one belt unit, wet grinding, including water basin and pump
- SG 150 KK two belt units, wet grinding, including water basin and pump
- SG 150 KKK three belt units, wet grinding, including water basin and pump
- SG 150 KKB two belt units, one brush unit, including water basin and pump
- SG 150 KKKK four belt units, wet grinding, including water basin and pump

The SmartGrinder is also available in 300mm working width.



Extras:

- > Additional feed belt with 90° stoppers, for processing short work pieces
- > Digital read out with zero reset for quicker setting of height
- > Pneumatically controlled floating heads (ideal for grinding hollow sections)
- > Additional rubber hold down rollers mounted to table
- > Motorized oscillation of abrasive belt
- > Flange for adapting abrasive nylon wheels or brushes
- > Abrasive belts, abrasive nylon belts, abrasive nylon wheels

THE SMARTGRINDER 300

The affordable through feed abrasive belt grinding machine for metal



Highly versatile: Grinding, bur removing or finishing of flat bar, sheet metal or hollow sections. The wet grinding facility makes it ideal for a mixed production of steel, stainless steel or aluminium.

First class surface results are achieved by using the wet grinding facility with constant through-feed speed and constant grinding pressure. The SmartGrinder can be used with abrasive belts in grit sizes of 40-400, super finish belts, abrasive nylon belts or different kinds of brushes/wheels.

Great value for money made possible by manufacturing a large number of machines with standard features.

SmartGrinder Highlights

- > Highly versatile due to wet system and use of belts or wheels
- > Separate height adjustment of each unit
- > Quick change of feed belt, special feed belts available for processing short pieces
- > Perfect grinding of hollow sections using the optional extra "floating head" (no bending, no blue surface)
- > 3000mm long abrasive belts for a safe tracking without oscillation, therefore straight finish without waves

HOW THE MACHINE WORKS:

Both SmartGrinder models use the same machine frame. This way the second unit can be fitted to a single unit machine even at a later date. Each station has its own height adjustment for easy and quick setting of the machine.

The SG 300 KK is the ideal machine for grinding stainless steel hollow sections for building fronts



TECHNICAL DATA

- > Pneumatic abrasive belt tensioning
- > Long abrasive belt 300 x 3000mm
- > Rubber covered and grooved contact wheel
- > Rubber covered and spring- loaded hold-down rollers, easy to pre-adjust
- > Variable speed of feed belt 2-9m/min
- > Upper collecting basin
- > Lower basin including electrical pump
- > Front hand wheel for height adjustment, including digital read-out
- > Large idler wheels with big bearings
- > Fine tracking adjustment of abrasive belt
- > Drive motor 7,5kW, spindle 40mm with additional front support
- > Amperemeter
- > Six jet water outlets for each belt
- > Emergency-off at in feed bar and emergency-off by opening doors
- > 150mm max. Work piece thickness
- > Feed belt with fixed height
- > Open table for quick changing of feed belt

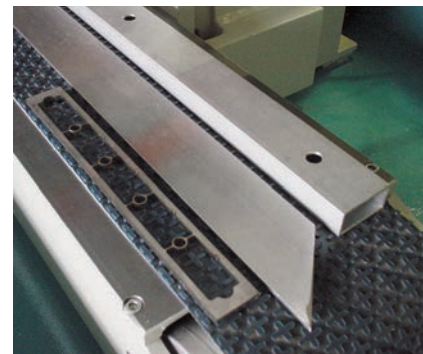
Extras:

- > Additional feed belt with 90° stoppers, for processing short work pieces
- > Digital read out with zero reset for quicker setting of height
- > Pneumatically controlled floating heads (ideal for grinding hollow sections)
- > Bigger opening for max. work piece thickness 290mm
- > Motorized oscillation of abrasive belt
- > Additional rubber hold down rollers mounted to table
- > Flange for adapting abrasive nylon wheels or brushes
- > Abrasive belts, abrasive nylon belts, abrasive nylon wheels

SmartGrinder 300

- | | |
|-------------|--|
| SG 300 K | one belt unit, wet grinding, including water basin and pump |
| SG 300 KK | two belt units, wet grinding, including water basin and pump |
| SG 300 KKK | three belt units, wet grinding, including water basin and pump |
| SG 300 KKB | two belt units, one brush unit, including water basin and pump |
| SG 300 KKKK | four belt units, wet grinding, including water basin and pump |

The SmartGrinder is also available in 150mm working width.



DUST EXTRACTORS

Dry and wet dust extractors for Loewer deburring machines



DRY DUST EXTRACTORS

WET DUST EXTRACTORS

DRY EXHAUST SYSTEM UT-T3

For steel and stainless steel processing in recirculated air operation suitable for LOEWER Discmaster and CrossMaster

Technical Details

UT-T3

Air volume (max.)	Approx. 5200 m³/h
Vacuum (max.)	Approx. 3,100 Pa.
Volume flow	Approx. 3,200m³/h
Motor	3,0kW, 400 V, 50Hz
Filter surface	20m²
Length x width x height	Approx. 850 x 970 x 2,785mm
Weight	Approx. 280g
Dust container volume	Approx. 50 litres
Connection - Ø	200mm
Compressed air 6-8 bar	3/4"
Execution	Stationary



WET EXHAUST SYSTEM UT-N3

For aluminium and aluminium-mix operation suitable for LOEWER Discmaster and CrossMaster

Technical Details

UT-N3

Air volume (max.)	Approx. 5,200 m³/h
Vacuum (max.)	Approx. 3,100 Pa.
Motor	3,0kW, 400 V, 50Hz
Volume Flow	1/2"
Length x width x height	Approx. 850 x 970 x 2,785mm
Filters	4 pieces filter cartridge (M)
Weight (without water)	Approx. 262 kg
Connection - Ø	200mm
Compressed air 6-8 bar	3/4"
Execution	Stationary



DRY EXHAUST SYSTEM UT-T5,5

For steel and stainless steel processing in recirculated air operation suitable for LOEWER Discmaster and CrossMaster

Technical Details

UT-T5,5

Air volume (max.)	Approx. 8,100 m³/h
Vacuum (max.)	Approx. 3,400 Pa.
Motor	5,5kW, 400 V, 50Hz
Filter surface	50m²
Length x width x height	Approx. 850 x 1,470 x 3,230mm
Filters	4 pieces filter cartridge (M)
Dust container volume	Approx. 80 litres
Connection - Ø	315mm
Compressed air 6-8 bar	3/4"
Execution	Stationary



WET EXHAUST SYSTEM UT-N7,5

For aluminium and aluminium-mix operation suitable for LOEWER Discmaster SF 2/2 and Beltmaster K-4TD

Technical Details

UT-N7,5

Air volume (max.)	Approx. 10,500 m³/h
Vacuum (max.)	Approx. 3,800 Pa.
Motor	7,5kW, 400 V, 50Hz
Filling	Automatic with solenoid valve
Length x width x height	Approx. 850 x 1,450 x 3,200mm
Water connection	1/2"
Weight (without water)	Approx. 262 kg
Connection - Ø	200mm
Execution	Stationary



DEBURR SHOP

If you already own a different brand of deburring machine, sorry we didn't manage to introduce to Loewer first, but hopefully we can still be of assistance with our new range of deburring and finishing tools for most brands of machinery.

LOEWER

WEBER

GECAM

RWT

BÜTFERING

LÖSER

NIEDERBERGER

VANGROENWEGHE

TIMESAVERS

7353

LISSMAC

ARKU

GRINDMASTER

ERNST

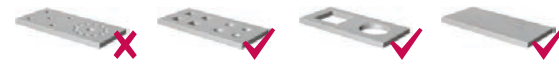
FLADDER

DEBURRDISCS BLUE EDITION

The Extra heavy-duty one for tough applications.

The Blue Edition is a heavy duty all-rounder for the more demanding deburring and edge rounding applications. The tough blue fleece material is interleaved with premium zirconium cloth in a variety of grit sizes, making it the perfect choice for shifting severe burrs and edge rounding on thicker materials.

METAL CONTOURS



GRAIN	60	80	100
EDGE ROUNDING			

Deburring Discs 155

The deburring disc 155 is used on dry deburring machines (e.g. Bütfering, Gecam, Loewer, Löser, RWT, Vangroenweghe).

PRODUCT VARIANTS

Diameter 155 mm **Bore** 25 mm
Abrasive Combination of high-quality aluminium oxide abrasive cloth and blue, zircon abrasive Scotch Brite



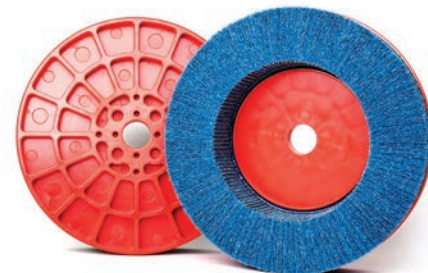
CODE	GRIT	
P09237	60	Available clockwise or anti-clockwise
P09238	80	Available clockwise or anti-clockwise
P09182	100	Available clockwise or anti-clockwise

Deburring Discs 260

The deburring disc 260 is used on dry deburring machines (e.g. Loewer-deburring machines).

PRODUCT VARIANTS

Diameter 260 mm **Bore** 30 mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and blue, zircon abrasive Scotch Brite



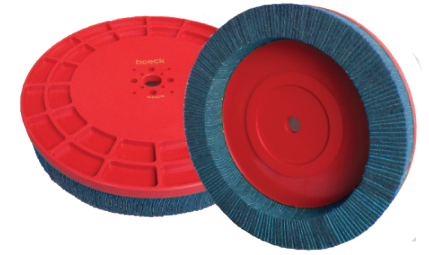
CODE	GRIT	
P09239	60	
P09240	80	
P09183	100	

Deburring Discs 410

The deburring disc 410 is used on dry deburring machines (e.g. Weber, Loewer).

PRODUCT VARIANTS

Diameter 410 mm **Bore** 30 mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and blue, zircon abrasive Scotch Brite



CODE	GRIT	
P09241	60	
P09242	80	
P09184	100	

Deburring Discs M14

The deburring disc M14 can be used on all manual grinders with frequency control.

PRODUCT VARIANTS

Diameter 115 mm **Tool Holder** M14 or Ø8mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and blue, zircon abrasive Scotch Brite



CODE	GRIT	
P09243	60	
P09244	80	
P09185	100	

Deburring Discs Quick115

The deburring disc QUICK115 is used on dry deburring machines with planetary heads (e.g. Weber-deburring machines).

PRODUCT VARIANTS

Diameter 115 mm **Hole** 14 mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and blue, zircon abrasive Scotch Brite

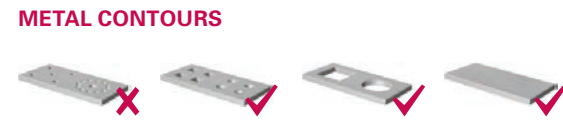


CODE	GRIT	
P09245	60	
P09246	80	
P09169	100	

DEBURRDISCS SYNTHETIC EDITION

The Robust one for wet applications.

The Synthetic Edition is designed for use on wet deburring machines such as Bütfering & Löser, for deburring and edge rounding heavier components. The robust waterproof black fleece material is interleaved with waterproof aluminium oxide cloth which stands up to demanding wet conditions and is virtually clog-free.



Deburring Discs 155

The deburring disc 155 is used on dry and wet deburring machines (e.g. Bütfering, Gecam, Loewer, Löser, RWT, Vangroenweghe).

PRODUCT VARIANTS

Diameter 155 mm **Bore** 25 mm
Abrasive Combination of waterproof aluminum oxide abrasive cloth and a silicon carbide synthetic fibre



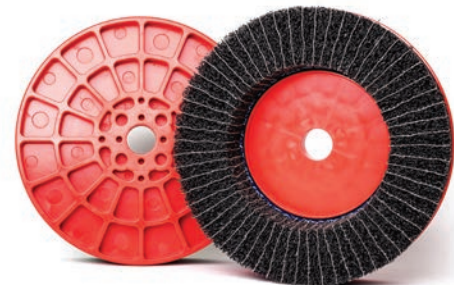
CODE	GRIT	
P09247	60	Available clockwise or anti-clockwise
P09186	80	Available clockwise or anti-clockwise

Deburring Discs 260

The deburring disc 260 is used on dry and wet deburring machines (e.g. Loewer-deburring machines).

PRODUCT VARIANTS

Diameter 260 mm **Bore** 30 mm
Abrasive Combination of waterproof aluminum oxide abrasive cloth and a silicon carbide synthetic fibre



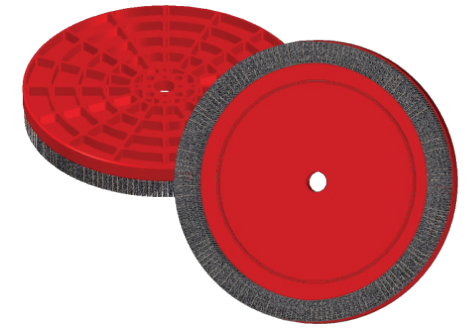
CODE	GRIT	
P09248	60	
P09187	80	

Deburring Discs 410

The deburring disc 410 is used on dry and wet deburring machines (e.g. Weber, Loewer).

PRODUCT VARIANTS

Diameter 410 mm **Bore** 30 mm
Abrasive Combination of waterproof aluminum oxide abrasive cloth and a silicon carbide synthetic fibre



CODE	GRITS	
P09249	60	
P09188	80	

Deburring Discs M14

The deburring disc M14 can be used on all manual grinders with frequency control.

PRODUCT VARIANTS

Diameter 115 mm **Tool Holder** M14 or Ø8mm
Abrasive Combination of waterproof aluminum oxide abrasive cloth and a silicon carbide synthetic fibre



CODE	GRITS	
P09250	60	
P09189	80	

Deburring Discs Quick115

The deburring disc QUICK115 is used on dry and wet deburring machines with planetary heads (e.g. Weber-deburring machines).

PRODUCT VARIANTS

Diameter 115 mm **Hole** 14 mm inc. quick-release-system
Abrasive Combination of waterproof aluminum oxide abrasive cloth and a silicon carbide synthetic fibre



CODE	GRIT	
P09251	60	
P09190	80	

DEBURRDISCS GREY EDITION

The Fine one for aluminium and plastics.

The Grey Edition is perfect for deburring and finishing aluminium and plastic components of all thicknesses. The ultra-soft silicon carbide grey fleece material is interleaved with fine grit silicon carbide abrasive cloth, which produces effective edge rounding results.

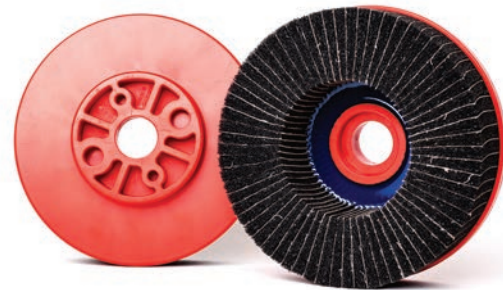


Deburring Discs 155

The deburring disc 155 is used on dry deburring machines (e.g. Bütfering, Gecam, Loewer, Löser, RWT, Vangroenweghe).

PRODUCT VARIANTS

Diameter 155 mm **Bore** 25 mm
Abrasive Combination of high-quality silicon carbide abrasive cloth and grey, silicon carbide abrasive Scotch Brite



CODE	GRIT	
P09252	80	Available clockwise or anti-clockwise
P06543	120	Available clockwise or anti-clockwise

Deburring Discs 260

The deburring disc 260 is used on dry deburring machines (e.g. Loewer-deburring machines).

PRODUCT VARIANTS

Diameter 260 mm **Bore** 30 mm
Abrasive Combination of high-quality silicon carbide abrasive cloth and grey, silicon carbide abrasive Scotch Brite



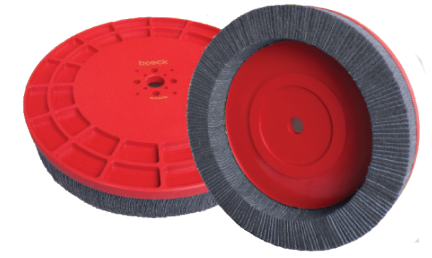
CODE	GRIT	
P09253	80	
P09191	120	

Deburring Discs 410

The deburring disc 410 is used on dry deburring machines (e.g. Weber, Loewer).

PRODUCT VARIANTS

Diameter 410 mm **Bore** 30 mm
Abrasive Combination of high-quality silicon carbide abrasive cloth and grey, silicon carbide abrasive Scotch Brite



CODE	GRIT	
P09254	80	
P09192	120	

Deburring Discs 115

The deburring disc M14 can be used on all manual grinders with frequency control.

PRODUCT VARIANTS

Diameter 115 mm **Tool Holder** M14 or Ø8mm
Abrasive Combination of high-quality silicon carbide abrasive cloth and grey, silicon carbide abrasive Scotch Brite



CODE	GRIT	
P09255	80	
P09193	120	

Deburring Discs Quick115

The deburring disc QUICK115 is used on dry deburring machines with planetary heads (e.g. Weber-deburring machines).

PRODUCT VARIANTS

Diameter 115 mm **Hole** 14 mm inc. quick-release-system
Abrasive Combination of high-quality silicon carbide abrasive cloth and grey, silicon carbide abrasive Scotch Brite



CODE	GRIT	
P09256	80	
P09194	120	

DEBURRDISCS GOLD EDITION

The Long-Life one for extreme edge rounding.

The Gold Edition is the best disc for extreme edge rounding on thicker components. The special combination of special tough gold fleece material and high quality abrasive cloth which is available in a variety of grits, gives an incredibly long service life on demanding applications.



Deburring Discs 155

The deburring disc 155 is used on dry deburring machines (e.g. Bütfering, Gecam, Loewer, Löser, RWT, Vangroenweghe).

PRODUCT VARIANTS

Diameter 155 mm **Bore** 25 mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and high quality golden, aluminum oxide abrasive Scotch Brite



CODE	GRIT	
P06822	40	Available clockwise or anti-clockwise
P09257	60	Available clockwise or anti-clockwise
P08663	80	Available clockwise or anti-clockwise

Deburring Discs 260

The deburring disc 260 is used on dry deburring machines (e.g. Loewer-deburring machines).

PRODUCT VARIANTS

Diameter 260 mm **Bore** 30 mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and high quality golden, aluminum oxide abrasive Scotch Brite



CODE	GRIT	
P09258	40	
P09259	60	
P08993	80	

Deburring Discs 410

The deburring disc 410 is used on dry deburring machines (e.g. Weber, Loewer).

PRODUCT VARIANTS

Diameter 410 mm **Bore** 30 mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and high quality golden, aluminum oxide abrasive Scotch Brite



CODE	GRIT	
P09260	40	
P09261	60	
P09195	80	

Deburring Discs M14

The deburring disc M14 can be used on all manual grinders with frequency control.

PRODUCT VARIANTS

Diameter 115 mm **Tool Holder** M14 or Ø8mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and high quality golden, aluminum oxide abrasive Scotch Brite



CODE	GRIT	
P09262	40	
P09263	60	
P09196	80	

Deburring Discs Quick115

The deburring disc QUICK115 is used on dry deburring machines with planetary heads (e.g. Weber-deburring machines).

PRODUCT VARIANTS

Diameter 115 mm **Hole** 14 mm inc. quick-release-system
Abrasive Combination of high-quality aluminum oxide abrasive cloth and high quality golden, aluminum oxide abrasive Scotch Brite



CODE	GRIT	
P09264	40	
P09265	60	
P09197	80	

DEBURRDISCS GREEN EDITION

The Soft one for small cut outs.

The Green Edition is perfect for thin sheet metals, and is also especially suited to deburring sheets with lots of holes. The soft green fleece material is interleaved with aluminium oxide cloth which is available in a variety of grits, and produces a slight edge rounding effect.



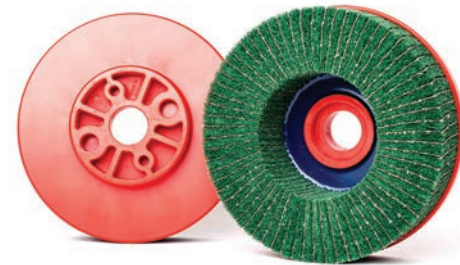
GRAIN	80	100	120
EDGE ROUNDING			

Deburring Discs 155

The deburring disc 155 is used on dry deburring machines (e.g. Bütfering, Gecam, Loewer, Löser, RWT, Vangroenweghe).

PRODUCT VARIANTS

Diameter 155 mm **Bore** 25 mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and green, aluminum oxide abrasive Scotch Brite



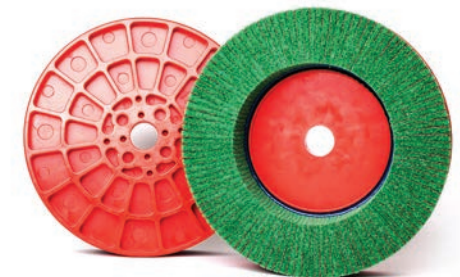
CODE	GRIT	
P09266	80	Available clockwise or anti-clockwise
P09267	100	Available clockwise or anti-clockwise
P09198	120	Available clockwise or anti-clockwise

Deburring Discs 260

The deburring disc 260 is used on dry deburring machines (e.g. Loewer-deburring machines).

PRODUCT VARIANTS

Diameter 260 mm **Bore** 30 mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and green, aluminum oxide abrasive Scotch Brite



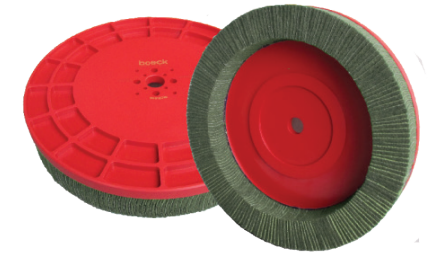
CODE	GRIT	
P09268	80	
P09269	100	
P09199	120	

Deburring Discs 410

The deburring disc 410 is used on dry deburring machines (e.g. Weber, Loewer).

PRODUCT VARIANTS

Diameter 410 mm **Bore** 30 mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and green, aluminum oxide abrasive Scotch Brite



CODE	GRIT	
P09270	80	
P09271	100	
P09200	120	

Deburring Discs M14

The deburring disc M14 can be used on all manual grinders with frequency control.

PRODUCT VARIANTS

Diameter 115 mm **Tool Holder** M14 or Ø8mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and green, aluminum oxide abrasive Scotch Brite



CODE	GRIT	
P09272	80	
P09273	100	
P09201	120	

Deburring Discs Quick115

The deburring disc QUICK115 is used on dry deburring machines with planetary heads (e.g. Weber-deburring machines).

PRODUCT VARIANTS

Diameter 115 mm **Hole** 14 mm inc. quick-release-system
Abrasive Combination of high-quality aluminum oxide abrasive cloth and green, aluminum oxide abrasive Scotch Brite



CODE	GRIT	
P09274	80	
P09275	100	
P09202	120	

DEBURRDISCS BROWN EDITION

The Standard good all-rounder.

The Brown Edition is a general purpose product for use on all types of sheet metals and is always a good starting point. The standard brown fleece material is interleaved with aluminium oxide cloth in a range of grit sizes to cope with most applications.

METAL CONTOURS

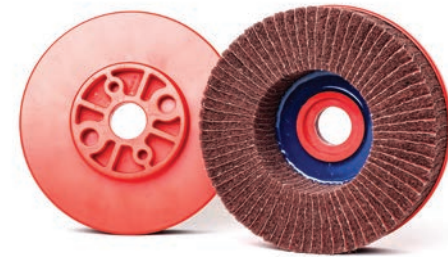


Deburring Discs 155

The deburring disc 155 is used on dry deburring machines (e.g. Bütfering, Gecam, Loewer, Löser, RWT, Vangroenweghe).

PRODUCT VARIANTS

Diameter 155 mm **Bore** 25 mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and brown, aluminum oxide abrasive Scotch Brite



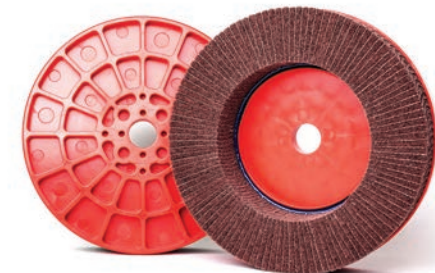
CODE	GRIT	
P08305	80	Available clockwise or anti-clockwise
P09276	100	Available clockwise or anti-clockwise
P09277	120	Available clockwise or anti-clockwise

Deburring Discs 260

The deburring disc 260 is used on dry deburring machines (e.g. Loewer-deburring machines).

PRODUCT VARIANTS

Diameter 260 mm **Bore** 30 mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and brown, aluminum oxide abrasive Scotch Brite



CODE	GRIT	
P09278	80	
P09279	100	
P06523	120	

Deburring Discs 410

The deburring disc 410 is used on dry deburring machines (e.g. Weber, Loewer).

PRODUCT VARIANTS

Diameter 410 mm **Bore** 30 mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and brown, aluminum oxide abrasive Scotch Brite



CODE	GRIT	
P09280	80	
P09281	100	
P09203	120	

Deburring Discs M14

The deburring disc M14 can be used on all manual grinders with frequency control.

PRODUCT VARIANTS

Diameter 115 mm **Tool Holder** M14 or Ø8mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and brown, aluminum oxide abrasive Scotch Brite



CODE	GRIT	
P09282	80	
P09283	100	
P09204	120	

Deburring Discs Quick115

The deburring disc QUICK115 is used on dry deburring machines with planetary heads (e.g. Weber-deburring machines).

PRODUCT VARIANTS

Diameter 115 mm **Hole** 14 mm inc. quick-release-system
Abrasive Combination of high-quality aluminum oxide abrasive cloth and brown, aluminum oxide abrasive Scotch Brite



CODE	GRIT	
P09284	80	
P09285	100	
P08857	120	

DEBURRDISCS DARK BROWN EDITION

The Rough one for high removal & strong edge rounding.

The Dark Brown Edition is another heavy duty product for deburring and edge rounding heavier steel components prior to painting or coating. The tough dark brown fleece material is interleaved with high quality coarse grit aluminium oxide cloth.

METAL CONTOURS



Deburring Discs 155

The deburring disc 155 is used on dry deburring machines (e.g. Bütfering, Gecam, Loewer, Löser, RWT, Vangroenweghe).

PRODUCT VARIANTS

Diameter 155 mm **Hole** 25 mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and brown, aluminum oxide abrasive Scotch Brite



CODE	GRIT	
P09286	40	Available clockwise or anti-clockwise
P09205	60	Available clockwise or anti-clockwise

Deburring Discs 260

The deburring disc 260 is used on dry deburring machines (e.g. Loewer-deburring machines).

PRODUCT VARIANTS

Diameter 260 mm **Bore** 30 mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and brown, aluminum oxide abrasive Scotch Brite



CODE	GRIT	
P09287	40	
P09206	60	

Deburring Discs M14

The deburring disc M14 can be used on all manual grinders with frequency control.

PRODUCT VARIANTS

Diameter 115 mm **Tool Holder** M14 or Ø8mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and brown, aluminum oxide abrasive Scotch Brite



CODE	GRIT	
P09288	40	
P09207	60	

Deburring Discs Quick115

The deburring disc QUICK115 is used on dry deburring machines with planetary heads (e.g. Weber-deburring machines).

PRODUCT VARIANTS

Diameter 115 mm **Hole** 14 mm inc. quick-release-system
Abrasive Combination of high-quality aluminum oxide abrasive cloth and brown, aluminum oxide abrasive Scotch Brite



CODE	GRIT	
P09289	40	
P09208	60	

DEBURRDISCS RED EDITION

The Aggressive one for very high removal & strong edge rounding.

The Red Edition is a high tech product for very heavy deburring and aggressive edge rounding requirements on mild steel, and produces an excellent radiused edge for painting and coating purposes. The strong red fleece material is interleaved with high quality abrasive cloth with is only available in coarse grit grades.



Deburring Discs 155

The deburring disc 155 is used on dry and wet deburring machines (e.g. Bütfering, Gecam, Loewer, Löser, RWT, Vangroenweghe).

PRODUCT VARIANTS

Diameter 155 mm **Bore** 25 mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and brown, aluminum oxide abrasive Scotch Brite



CODE	GRIT	
P09290	40	Available clockwise or anti-clockwise
P09209	60	Available clockwise or anti-clockwise

Deburring Discs 260

The deburring disc 260 is used on dry and wet deburring machines (e.g. Loewer-deburring machines).

PRODUCT VARIANTS

Diameter 260 mm **Bore** 30 mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and brown, aluminum oxide abrasive Scotch Brite



CODE	GRIT	
P09291	40	
P09210	60	

Deburring Discs M14

The deburring disc M14 can be used on all manual grinders with frequency control.

PRODUCT VARIANTS

Diameter 115 mm **Tool Holder** M14 or Ø8mm
Abrasive Combination of high-quality aluminum oxide abrasive cloth and brown, aluminum oxide abrasive Scotch Brite



CODE	GRIT	
P09292	40	
P09211	60	

Deburring Discs Quick115

The deburring disc QUICK115 is used on dry and wet deburring machines with planetary heads (e.g. Weber-deburring machines).

PRODUCT VARIANTS

Diameter 115 mm **Hole** 14 mm inc. quick-release-system
Abrasive Combination of high-quality aluminum oxide abrasive cloth and brown, aluminum oxide abrasive Scotch Brite



CODE	GRIT	
P09293	40	
P09212	60	

DEBURRING SEGMENTS

The deburring segments are used on dry and wet deburring machines (e.g. TIMESAVERS). Depending on the work piece and the desired deburring/edge rounding result different combinations of scotch and abrasive cloths can be used. Exactly this combination is the key factor for an optimal production process. For example burrs at cutouts and holes can be easily removed with the best matching combination. A perfect edge rounding will be achieved.

Deburring Segments Blue Edition

Perfect for deburring sheet metal, where a strong edge rounding is required. The blue and hard scotch presses the abrasive cloth very strong to the edges and leads to a strong edge rounding.

PRODUCT VARIANTS

Diameter 900 mm, 1220 mm, 1550 mm

Abrasive Combination of high-quality aluminum oxide abrasive cloth and blue, zircon abrasive Scotch Brite



CODE	GRIT
P09294	60
P09295	80
P09213	100



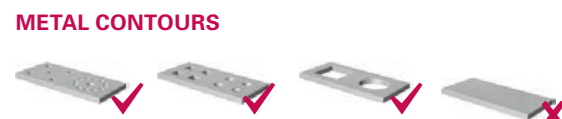
Deburring Segments Green Edition

Perfect for deburring of thin sheet metals with small cut outs and holes. The green and soft abrasive scotch is interspersed with aluminum oxide. It fits perfectly to sheet metal cutouts and leads to an optimal round edging result.

PRODUCT VARIANTS

Diameter 900 mm, 1220 mm, 1550 mm

Abrasive Combination of high-quality aluminum oxide abrasive cloth and green, aluminum oxide abrasive Scotch Brite



CODE	GRIT
P09296	80
P09297	100
P09214	120



Deburring Segments Synthetic Edition

On wet deburring machines (e.g. TIMESAVERS) we preferably use deburring segments fitted with a combination of waterproof abrasive scotch (synthetic fiber) and abrasive cloth. The high-quality finishing materials are impregnated for the wet process conditions. This prevents a soaking through of the abrasive cloth. Clogging of the deburring tool is largely excluded. Thereby an optimal rounding of the edges in your wet machining process is achieved.

PRODUCT VARIANTS

Diameter 900 mm, 1220 mm, 1550 mm

Abrasive Combination of waterproof aluminum oxide abrasive cloth and a silicon carbide synthetic fibre



CODE	GRIT
P09298	60
P09215	80



METAL CONTOURS



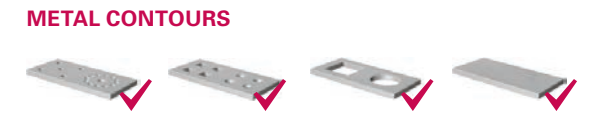
Deburring Segments Brown Edition

This deburring disc can be used for all types of sheet metals.

PRODUCT VARIANTS

Diameter 900 mm, 1220 mm, 1550 mm

Abrasive Combination of high-quality aluminum oxide abrasive cloth and brown, aluminum oxide abrasive Scotch Brite



CODE	GRIT
P09303	80
P09304	100
P09216	120



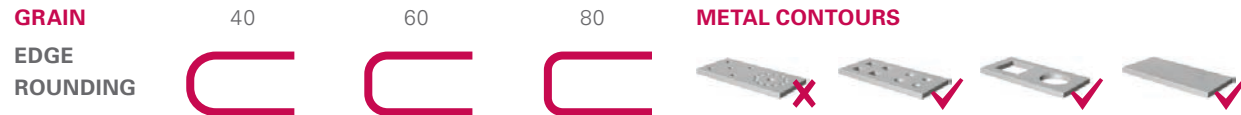
Deburring Segments Gold Edition

GOLD EDITION is perfect for deburring of edges on thick sheets. Very long life time of the tool combined with very large rounding of the edges due to the extremely hard and tough abrasive scotch in combination with the abrasive cloth.

PRODUCT VARIANTS

Diameter 900 mm, 1220 mm, 1550 mm

Abrasive Combination of high-quality aluminum oxide abrasive cloth and high quality golden, aluminum oxide abrasive Scotch Brite



CODE	GRIT
P09305	40
P09306	60
P09217	80



Deburring Segments Grey Edition

Through the fill material with silicon carbide grain a very good edge rounding is achieved mainly on sheet metals made of aluminum and plastic. Also the surface of the work piece is partially polished.

PRODUCT VARIANTS

Diameter 900 mm, 1220 mm, 1550 mm

Abrasive Combination of high-quality aluminum oxide abrasive cloth and brown, aluminum oxide abrasive Scotch Brite



CODE	GRIT
P09306	80
P09218	120



DEBURRING WHEELS

The deburring wheels are used on dry and wet deburring machines (e.g. **ERNST, TIMESAVERS, FLADDER, WEBER**, etc.). Depending on the work piece and the desired deburring/round edging result different abrasive cloths can be used. The exact configuration is the key factor for an optimal production process. For example burrs at cutouts and holes can be easily removed with the best matching combination. A perfect edge rounding will be achieved.

In addition the new deburring wheels are convincing with absolute customisation and economic efficiency, highest precision and ultra-lightweight.

Customised and economical

A completely new product structure in combination with a new developed manufacturing method permits the economical production of customized deburring wheels. All process relevant parameters of the deburring wheels can be adapted to specific customer needs. The perfect matching of the deburring wheels is the key factor for an optimal manufacturing process.

Highest precision

With a new developed manufacturing method the deburring wheels are 100% precise. The users benefit from reproducible results round edging results right from the beginning and do not need cost- and time-consuming dressing processes. Moreover the new deburring wheels represent the "monocrystal" of the deburring and round edging tools.

Ultra-lightweight

By the use of the latest generation materials as basic elements of the deburring wheels a weight reduction of up to 50 %, compared to conventional deburring wheels could be reached. This result in a lower machine load, whilst maintaining exactly the same finish results.

Deburring Wheels Brown Edition

These deburring wheels can be used for all types of sheet metals.

PRODUCT VARIANTS

Diameter Depending on machine

Hole Depending on machine

Length Depending on machine

Abrasive high-quality aluminum oxide abrasive cloth



DESCRIPTION

Deburring Wheels brown edition



Deburring Wheels Grey Edition

Through the fill material with silicon carbide grain a very good edge rounding is achieved mainly on sheet metals made of aluminum and plastic. Moreover a different surface condition can be achieved compared to the BROWN EDITION.



PRODUCT VARIANTS

- Diameter** Depending on machine
- Hole** Depending on machine
- Length** Depending on machine
- Abrasive** high-quality aluminum oxide abrasive cloth

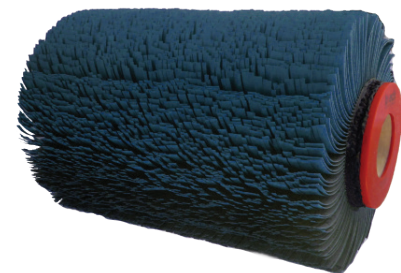


DESCRIPTION

Deburring Wheels grey edition

Deburring Wheels Blue Edition

Through the fill material with zircon grain a very good edge rounding is achieved mainly on sheet metals made of stainless steel. Moreover a different surface condition can be achieved compared to the BROWN EDITION.



PRODUCT VARIANTS

- Diameter** Depending on machine
- Hole** Depending on machine
- Length** Depending on machine
- Abrasive** high-quality aluminum oxide abrasive cloth



DESCRIPTION

Deburring Wheels blue edition

WIDE BELTS

Optimal for removing primary burrs (grain 80 /120) and to make final sanding (grain 240) on sheet metals. Depending on the material and the desired removal rate, we can advise you, which abrasive belt is suitable for your process at best. For your deburring machine we have a variety of wide belts in our warehouse.

Wide Belts Brown Edition

Wide belts with aluminium oxide are tough and very hard. Aluminium oxide is a universal grain for the machining of metal and wood surfaces.



PRODUCT VARIANTS



DESCRIPTION

Wide Belts brown edition

Wide Belts Blue Edition

Due to the outstanding cutting performance and the additional lubricating layer zirconia alumina wide belts allow a very high stock removal with reduced temperature in the grinding zone. The cool grinding leads to an extension of service life. The continuous generation of new cutting edges during the whole service life provides an improved surface quality.



PRODUCT VARIANTS



CODE DESCRIPTION

Wide Belts blue edition

Wide Belts Red Edition

Wide belts with ceramic grain are special abrasive belts for aggressive but cool grinding. The use of wide belts with ceramic grain lead to an increase in productivity with simultaneous improvement of surface quality and outstanding stock removal.



PRODUCT VARIANTS

GRAIN	80	80	120	120
EDGE ROUNDRING				

CODE DESCRIPTION

Wide Belts red edition

WE CAN GET ANY PERMUTATION OF HIGH QUALITY DEBURRING DISCS, SEGMENTS OR BRUSHES BESPOKE MADE.

PLEASE CONTACT US TO DISCUSS YOUR SPECIFIC REQUIREMENTS AND WE'LL GET YOU A TRIAL SAMPLE MADE UP.



Oxide Brush QUICK115

The oxidebrush QUICK115 is characterized by an innovative, multi-row arrangement of the specially developed cord wire and the well-known quick-release-system QUICK115. An optimal removal of oxide layers is guaranteed by simultaneously long-life time and shortest set-up times.



CODE DESCRIPTION

P09219	Oxide Brush Quick115
P09307	Oxide Brush M14
P09308	Oxide Brush 155
P09309	Oxide Brush 260
P09310	Oxide Brush 410

Sanding Star

Sanding stars are equipped with a highly flexible abrasive cloth. The abrasive flaps are radially arranged and pressed with a specially developed eyelet. Due to the flexibility of the abrasive and the arrangement of the abrasive flaps, sanding stars are perfect to grind work pieces with contour. Sanding stars are used in the metal industry mainly as deburring tools and the wood industry mainly as grinding tools. We recommend to use at least three to four sanding stars next to each other, so that an optimum grinding result is guaranteed. For example sanding stars with a shaft are made at least with three "small" sanding stars on the shaft.



Application	Complex work pieces with many contours (e.g. aluminium profiles, wood railings, wood profiles)
Material	Metals, wood, non-ferrous metals, plastics

DESCRIPTION

Sanding star

Eurosol Cleaning Liquid Cleaning solution for Loewer machines

Specially formulated cleaning fluid for cleaning Loewer mats and conveyor belts.



CODE DESCRIPTION

P08525	Eurosol cleaning liquid 1 litre
P09045	Eurosol cleaning liquid concentrate 5 litre





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We couldn't be more impressed with the Loewer machine that Engineering Utilities sourced for us – not only have we seen a marked increase in the number of jobs we can service each day, the machine has also enabled us to standardise the deburring process to provide an elevated level of consistency and quality to our clients.

Referring to the *Discmaster 4TD*

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