



EISENBLATTER

High Tech Schleif- und Poliertechnik



First Class High Tech grinding and polishing equipment!

for stainless steel – steel – non-ferrous metals – wood



TOP quality
Made in Germany

2010/11

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EISENBLÄTTER

HIGH TECH GRINDING AND POLISHING EQUIPMENT





“Good ideas are often
ridiculed at the start, then
opposed and finally copied.”

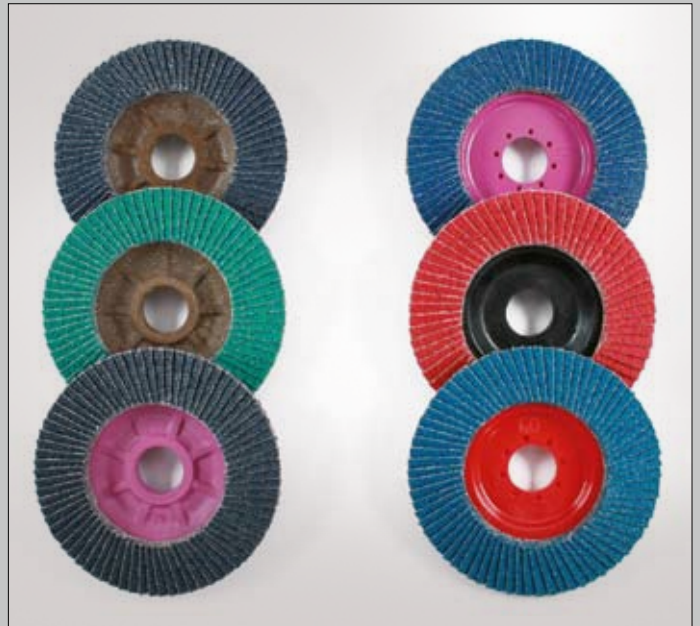
**HIGH TECH GRINDING AND POLISHING
EQUIPMENT IN A CLASS OF ITS OWN!**



HISTORY

PERFECT GRINDING EQUIPMENT FOR PERFECT FINISHES

- **1972 – Eisenblätter-engineering is founded**
- **1973** – Invention and production of fully automatic marbling systems
- **1974** – Invention and production of deburring machines with flap discs
- **1975** – Invention and production of sheet metal deburring machines with elastic grinding wheels
- **1976** – Invention of ROLEI longitudinal grinders and accessories
- **1978** – Launch of the first zirconium-based flap discs
- **1980 – Gerd Eisenblätter GmbH for special grinding equipment is founded**
- **1982** – Launch of ZIRCOTEX flap discs
- **1984** – Invention and production of flap discs with adhesive-free aluminium backing plates
- **1985** – Gold medal for deburring machines at the International Trade Show IHM in Munich
- **1988** – Invention of HOOK AND LOOP flap discs with patented centring backing plate
- **1989** – First longitudinal grinder with an angle gear
- **1990** – Invention and production of MAGNUM® flap discs on ABS backing plates
- **From 1992 on the company made a large number of inventions in the abrasives and hand machine sector**
- **2004** – Invention of the first flap disc made of sustainable raw materials
- **2005** – Awarded the Environment Prize
- **2007** – TOP 100 – Innovation Prize in Germany – Awarded by Lothar Späth –
- **2007** – Honorary Prize from the Government Safety Organisation



For more than 30 years Eisenblätter has been developing and manufacturing hand-held grinding machines for surface grinding and finishing on non-ferrous metals, iron, steel and stainless steel, aluminium, rigid plastic and wood. Over this time the company has accumulated a wealth of experience and expertise, which is demonstrated by better quality, more economical and powerful equipment and abrasives. The grinders and abrasives developed by Eisenblätter are today the most efficient available on the market.

Eisenblätter has set standards for established grinding technology with a number of innovations.

Over 80 protective rights, both in Germany and abroad, protect Eisenblätter's unique expertise.

With the development of the first zirconium-based flap disc for high-speed angle grinders at the end of the seventies, **Eisenblätter became a pioneer of the triumph of the flap disc.**

Today Eisenblätter supplies a superlative abrasive with the MAGNUM® COOL TOP®, which offers unbeatable performance in material removal, grinding quality and service life. The Eisenblätter MAGNUM® COOL TOP® was awarded first place in a flap disc test by "Werkzeugforum". The latest development, the PLANTEX® made of a high tech hemp fibre compound, is a high performance flap disc made of sustainable raw materials, making it environmentally friendly, self-trimming, easy to dispose of and offering maximum safety.

In 1976 Eisenblätter was awarded a patent for a longitudinal grinder. This "LFS 100" has developed into a multi-functional grinder for high quality surfaces. The current machine, the POLY-PTX® 500+, made by Eisenblätter, with a wide range of abrasives for a most conceivable application in surface finishing, for example for producing a perfect mirror finish on stainless steel surfaces, has become an essential helper in engineering, industry and particularly in metal construction.



■ In-house production in Germany

Only the best raw materials and media, available worldwide, are used for Eisenblätter products. This ensures that we can offer our customers **the best possible quality**.

Eisenblätter never followed the general trend to manufacture in low wage countries. This means that all our products are **“Made in Germany”** on the very latest production equipment under strict controls. Extensive inspection and testing systems guarantee these extraordinarily high quality standards.

The fact that this often very expensive route pays dividends is demonstrated by the enormous loyalty of our satisfied customers around the world and the continuous growth of all our product lines.

Today Eisenblätter is one of the leading manufacturers of flap discs, longitudinal grinding systems and abrasives. To meet the quality standards that we set ourselves whilst still allowing us to manufacture on a rational and economical basis we have used completely new development methods for our production equipment.

This means that Eisenblätter leads the way in offering top quality at a fair price.

Lots of large, well-known companies from the automotive, bodywork, aircraft, rolling stock, metal construction and mechanical engineering sectors as well as leading German shipbuilders use Eisenblätter technology in their plants.



Prizes and awards



Bavarian State Prize 1985

As long ago as 1985 Eisenblätter was awarded the Bavarian State Prize at the International Trade Show IHM in Munich for its deburring machine.



Environment Prize 2005

On 7 June 2005 Eisenblätter was awarded the Environment Prize 2005 by the Rural District of Bad Tölz-Wolfratshausen from District Commissioner Manfred Nagler. The citation reads, **"Special mention must be made on the fact that the developed backing plate uses a sustainable raw material in the form of hemp which not only can be manufactured and disposed of without harming the environment, but can also be used by the operator without generating any harmful emissions."**



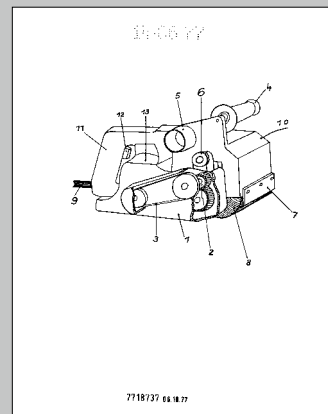
Top 100 Innovator 2007

Eisenblätter was awarded the Top 100 award by Lothar Späth. This put Eisenblätter among the top 100 innovators in Germany during 2007.



Honorary Prize of the Government Safety Organisation 2007

Gerd Eisenblätter GmbH entered the German Professional Association Support Prize competition in 2007 and was awarded an **honorary prize "Innovations in Prevention"** for its submitted product **"PLANTEX high tech hemp compound"**.





POLY-PTX® 500+ PROFESSIONAL





The original professional machine for hard permanent use –
from the global market leader and inventor of the
longitudinal grinder. A multi-function grinder for high
quality surface finishes and pipe constructions.

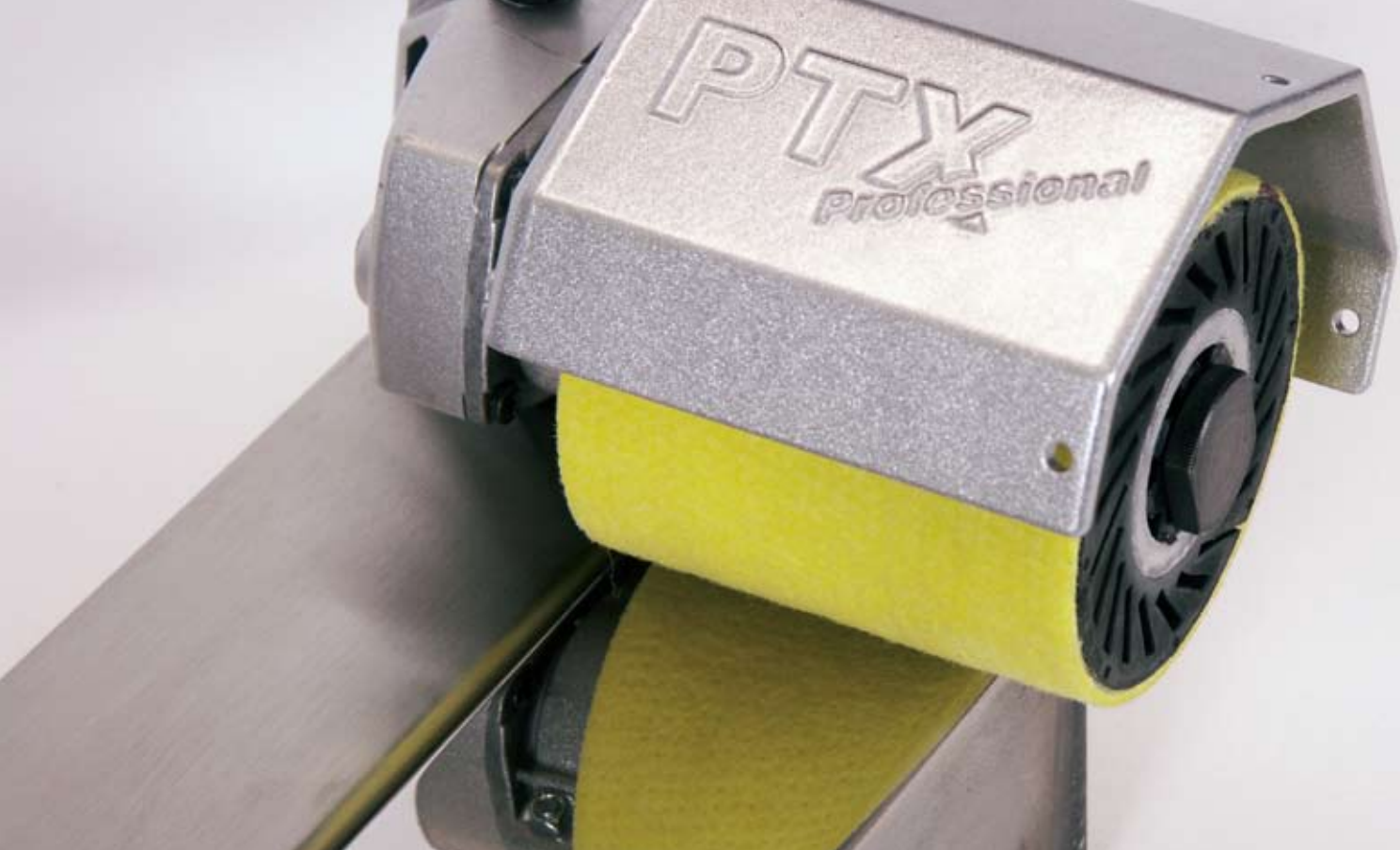
1600 watts rating

Speed control

Ergonomic design

Extremely versatile

Now for working widths up to 150 mm



POLY-PTX® 500⁺ PROFESSIONAL

- **POLY-PTX® 500⁺** – Grinds from rough to very fine finishes.
- **POLY-PTX® 500⁺** – Balanced, straight line handling with free adjustment (oscillation effect) guarantees very decorative surfaces without shadows or transitions.
- **POLY-PTX® 500⁺** – Produces satin finishes, polishes to a mirror finish and improves surface finishes on stainless steel, steel, non-ferrous metals (such as brass, bronze, copper and aluminium) and also wood.
- **POLY-PTX® 500⁺** – Very fine grinding on large surface area – with no shadows or streaks.
- **POLY-PTX® 500⁺** – Removes welds, deep scratches, rust, dirt, paint and oxide layers.
- **POLY-PTX® 500⁺** – In just three steps from rough grinding to a mirror finish on stainless steel and non-ferrous metals.
- **POLY-PTX® 500⁺** – Grinds and polishes open and closed pipe constructions.
- **POLY-PTX® 500⁺** – For grinding pipes a “**buttonhole system**” (protected by international patents) ensures reliable, fast connection of the grinding belt after it has been placed around the pipe. No more messy gluing of the belts.
- **POLY-PTX® 500⁺** – Massive range of abrasives to cover almost every conceivable job.

POLY-PTX® 500⁺ PROFESSIONAL



Adjustable handle suitable for right and left-handed users. Anti-vibration handle for comfortable, fatigue-free working.



Service cover allows the carbon brushes to be changed quickly.



Simple speed control during operation. Stable speed thanks to tachogenerator.



QUICK-LOCK cable connection for fast, easy replacements, for example of damaged cables. Available cable lengths 4 m and 10 m (accessories).



Dust-tight field coil with special coating.



Infinitely adjustable cover guard with securing points for the extraction cover.



Extending polycarbonate cover guard for grinding roller widths up to 150 mm.



Eco Smart adapter for roller widths up to 150 mm and vibration-free operation.

Patented and design protection



Technical data	
Mains connection	230 V ~ 50 – 60 Hz (alternatively 110 V ~ 50 – 60 Hz)
Rating	up to 1.600 watts
Speed	infinitely adjustable from 950 to 3,500 rpm, with tachogenerator for constant speed even under load
Speed controller	with fine adjustment to ensure abrasives are used at optimum efficiency
Grinding width	standard up to 100 mm (max. 150 mm)
Roller diameter	up to 115 mm

Complete solutions for a wide range of applications

Complete sets mean that you always have the right tool to hand – in the workshop and for all outdoors work. In addition you can make significant savings compared to buying the components separately.



For metalworking

■ Complete professional set

This set comes in a practical, strong and impact-resistant transport case and contains everything you need for shadow-free industrial finishes to perfect mirror finishes on metals as well as new developed cleaning products and preservatives for perfect surface protection to prevent marks and fingerprints. *(See price list for details of content!)*



■ Basic case set

Basic set for coarse grinding to mirror finishes on flat surfaces and pipes. *(See price list for details of content!)*



For woodworking

■ Case set for woodworking

The complete set for treating wooden surfaces. Strong transport case with POLY-PTX® 500+ and a range of brush wheels for various wood structures from rustic to polishing stained surfaces and a suction cover for extracting grinding dust particles. *(See price list for details of content!)*



TIP



Special segments on our patented expansion roller now make it possible to change the sleeve more easily with improved workpiece adjustment, vibration damping and concentricity.

■ Accessories



POLY-PTX® expansion roller with new soft expansion segments for perfect adjustment to the workpiece

Application:
For using zirconium, TZ-Pyramid, fleece, felt and SuperPolish sleeves

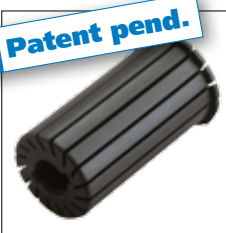
Dimensions:
Ø 90 mm; widths 100 mm, 50 mm



POLY-PTX® inflatable expansion roller

This inflatable roller is recommended for the individual "hardness adjustment" of the grinding, fleece, TZ-Pyramid, SuperPolish and felt sleeves. It is ideal for surface and edge grinding.

Dimensions: Ø 90 mm; width 100 mm



Patent pend.

Adapter for Eco Smart abrasives

Adapter for using Eco Smart abrasives with the POLY-PTX® 500+ Professional or with other longitudinal grinders with Ø 19 mm spline shaft. Simply place the adapter on the spline shaft and you can start using low cost Eco Smart abrasives.

Dimensions: External-Ø 45 mm, internal-Ø 19 mm with two keyways; width 100 mm



POLY-PTX® plastic spacer ring set

Application:
For width compensation for brushes, rollers and polishing rings

Material: Plastic

Content:
2x20 mm, 1x10 mm



POLY-PTX® professional case (empty)

Strong, impact-resistant transport case with shaped foam internal divisions for use on site and outdoors (locking)



POLY-PTX® extraction cover

Application:

For connection to all conventional industrial vacuum cleaners, with centring knurled screws. Ideal for jobs which generate lots of dust (for example grinding aluminium or wood). Can be used on roller widths up to 100 mm.

Dimensions:
Internal-Ø 35 mm; external-Ø 40 mm

■ Hand fleece

NEW



Hand fleece

Areas which are difficult to access with a grinder (corners, internal angles, etc.) can be reworked by hand using the appropriate fleece grit

Application:

For shadow-free industrial finishes (matt and satin), pre-polishing, removing oxide layers and for smoothing preground sheets. For stainless steel, non-ferrous metals and wood, for smoothing surfaces.

Material: Grinding fleece impregnated with abrasives

Dimensions:
20 m x 100 mm

Grit:
80, 180, 280, 400



■ Special brushes



POLY-PTX® stranded wire wheel

Application:
Metal: For rust removal, deburring, roughening and cleaning (steel)

Wood: For brushing soft annual rings in soft wood and to create coarse rustic effects

For use on the following materials: All metals and wood

Material: Steel stranded wire brush

Dimensions: Ø 100 mm; widths 70 mm, 25 mm, 12 mm; Wire thickness 0,2 mm

Stranded wire wheel for rustic effects on wood (brush out soft annual rings)



POLY-PTX® bristle wheel

Application:

Metal: For roughening and deburring

Wood: To create coarse rustic effects with soft annual ring transitions

For use on the following materials: All metals and wood

Material: Elastic, plastic brush impregnated with abrasives

Dimensions: Ø 100 mm; widths 70 mm, 25 mm, 12 mm; Bristle thickness 1,27 mm



POLY-PTX® VA wire wheel

Application:

For roughening, deburring, cleaning welds and removing coatings

For use on the following materials: All metals

Material: Elastic VA wire brush

Dimensions: Ø 100 mm; widths 70 mm, 25 mm, 12 mm; Wire thickness 0,2 mm



POLY-PTX® fibre wheel

Application:

For polishing stained wood surfaces, creating matt sheen effects and for pore-deep dust removal and cleaning

For use on the following materials: Wood

Material: Elastic fibre brush

Dimensions: Ø 100 mm; width 100 mm

POLY-PTX®-roller abrasives for coarse and fine finishing

POLY-PTX®-abrasives are made by Eisenblätter to high quality standards in Germany. A unique production process developed by Eisenblätter guarantees high concentricity and thus, in combination with the patented cross-grooved insert or the new Eco Smart system, vibration-free grinding – a prerequisite for fatigue-free working and perfect surface finishes without transitions.

Just try it:

You will be surprised how much smoother a POLY-PTX® grinding wheel or brush wheel is.



POLY-PTX® flap wheel

Application: For removing rust, oxide layers, minor scratches, coatings and for regraining and burnishing metals.

For use on the following materials: All metals

Material: High quality corundum

Dimensions: Ø 105 mm; widths 100 mm, 50 mm

Grit: 24, 40, 50, 60, 80, 120, 180, 240



POLY-PTX® CLEAN wheel

Application: Cleaning and descaling welds, pore-deep removal of rust, oxide layers and coatings, cleaning wooden beams, bricks, etc. without removing the base material (same effect as sand-blasting).

For use on the following materials: Metal, wood, brick

Material: Coarse nylon fabric impregnated with grit

Dimensions: Ø 115 mm; widths 100 mm, 50 mm



POLY-PTX® Interleave (Combi) wheel

Application:

Metal: For matt and satin finishes and removing minor scratches

Wood: Removing old coatings

For use on the following materials: All metals and wood

Material: Nylon fleece impregnated with grit with special corundum abrasive cloth

Dimensions: Ø 115 mm, 105 mm; widths 100 mm, 50 mm

Grit: 60, 80, 180



POLY-PTX® VLIES-TOP wheel

Application: For effective decorative, bright linear finishes and light deburring on punched perforated plates

For use on the following materials: All metals

Material: Pure fleece compacted with PUR foam

Dimensions: Ø 112 mm; width 100 mm

Grit: 80, 180, 280, 400, 600, 900



POLY-PTX® FLEECE wheel (nonwoven)

Application: For the shadow-free completion of industrial grinding finishes (matt and satin), pre-polishing, removing oxide layers and for smoothing preground sheets. For smoothing wooden surfaces

For use on the following materials: Stainless steel, non-ferrous metals, wood, steel

Material: Elastic nylon fleece impregnated with abrasives

Dimensions: Ø 115 mm, 105 mm; widths 100 mm, 50 mm

Grit: 60, 80, 180, 280, 400, 600, 900



POLY-PTX® GUM wheel

Application: For removing minor scratches and black scale, ideal for a bright decorative, textured linear finish. Also for smoothing wooden fibres.

For use on the following materials: Stainless steel, non-ferrous metals, wood

Material: Soft rubber impregnated with grit

Dimensions: Ø 105 mm; widths 100 mm, 50 mm

Grit: 60, 180

TIP

FLEECE wheel 115x100 mm K80 and CLEAN wheel 115x100 mm are supplied with excess width (110 mm) and will fit on all conventional drive shafts (100 mm). This provides approx. 20% more performance and allows grinding in-to the corners.

■ Sleeves for expansion roller



POLY-PTX® zirconium sleeve

Application: Removal of deep scratches, rust, scale and welds. Far less rework is required as a result of using the time-saving linear grinding technique. Only for use with an expansion roller.

For use on the following materials: All metals

Material: Zirconium fabric

Dimensions: Ø 90 mm; width 100 mm, 50 mm

Grit: 40, 60, 80, 120, 150, 180



POLY-PTX® SC fleece sleeve

Application: For removing minor scratches and oxide layers, matt and satin finishes, deburring and final grinding. Only for use with an expansion roller.

For use on the following materials: All metals

Material: Nylon fabric impregnated with grit

Dimensions: Ø 90 mm; width 100 mm, 50 mm

Grit: Coarse, medium, fine, super-fine



POLY-PTX® TZ-Pyramid sleeve

Application: Very high material removal whilst producing a very fine finish (reduces the number of stages required). Ideal for removing scratches and for pregrinding for polishing to a mirror finish. Only for use with an expansion roller.

For use on the following materials: All metals

Material: New abrasive fabric with pyramid-shaped grit structure

Dimensions: Ø 90 mm; width 100 mm, 50 mm

Grit: A100, A65, A45, A30, A16, A06

TZ-Pyramid grit comparison table						
TZ-Pyramid grit	A100	A65	A45	A30	A16	A06
Result corresponds to grit	220	320	400	600	1.200	2.000
Material removal corresponds approx. to grit	36	40	50	60	80	120

Fleece comparison table				
	Coarse (brown)	Medium (red)	Fine (blue)	Super-fine (grey)
Corresponds approx. to grit	80	180	280	400

■ Polishing abrasives

POLY-PTX® 500+



POLY-PTX® felt sleeve (merino)

Application: For polishing large surfaces to a mirror finish. Only for use with an expansion roller and polishing paste or cream.

For use on the following materials: Stainless steel, non-ferrous metals, rigid plastic

Material: Soft merino felt

Dimensions: Ø 90 mm; width 100 mm



POLY-PTX® SuperPolish sleeve

Application: For perfect brilliant, shadow-free mirror finishes (removes even the finest streaks). SuperPolish fleece is absorbent, does not smear and saves a lot of time. Only for use with an expansion roller and polishing paste or cream.

For use on the following materials: Stainless steel, non-ferrous metals

Material: Revolutionary special nylon fleece

Dimension: Ø 90 mm; widths 100 mm, 50 mm



POLY-PTX® felt wheel (merino)

Application: For initial and high gloss polishing of small to medium flat surfaces. Only for use with polishing pastes or cream.

For use on the following materials: Stainless steel, non-ferrous metals

Material: Hard felt contact wheel made of compressed merino

Dimensions: Ø 100 mm; width 50 mm



POLY-PTX® cotton ring (impregnated)

Application: Ideal for high gloss polishing. Only for use with polishing pastes or cream.

For use on the following materials: Non-ferrous metals, aluminium, brass

Material: Impregnated cotton fabric

Dimensions: Ø 100 mm; width 12 mm



POLY-PTX® top finish ring medium

Application: For pre-polishing narrow or uneven VA surfaces. Only for use with polishing pastes or cream.

For use on the following materials: Stainless steel surfaces

Material: Made of impregnated technical fleece

Dimensions: Ø 100 mm; width 12 mm



POLY-PTX® top finish ring soft

Application:

For the **final polish** – top mirror finish effect. Only for use with polishing pastes or cream.

For use on the following materials: Stainless steel and non-ferrous metals

Material: Made of extra soft technical fleece

Dimensions: Ø 100 mm; width 12 mm

→ **116**

See page 116 for a detailed **TIP** for polishing stainless steel and non-ferrous metals to a mirror finish.

TIP

A perfect mirror finish on stainless steel

The newly developed grinding and polishing system with the special **TZ-Pyramid** and **SuperPolish** abrasives from Eisenblätter requires very few stages to produce a perfect mirror finish much quicker.

1. Pre-grinding

Grinding belt sleeve or TZ-Pyramid sleeve grit A45 (possibly A65) to remove mill skin, scratches and minor unevenness.

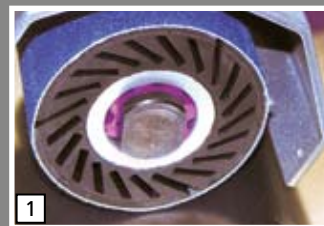
2. Intermediate grinding

Rework with **TZ-Pyramid A30** and complete with **TZ-Pyramid A16**. Use very little grinding pressure and grind **perpendicular** and **diagonally**.

3. Mirror finish polish

SuperPolish sleeve with **white polishing paste**, then **SuperPolish sleeve** with **blue polishing paste**. Use a different sleeve for each past grit. **Polish diagonally**.

With **SuperPolish sleeve** and **pink high gloss polishing cream**. Polish in one direction only.



1



2



3



4

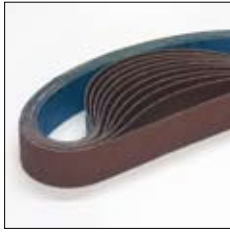
4. Finish (optional)

With **soft top finish rings** and **pink cream** to remove any minimum streaks.

TIP:

Apply the **pastes** and **creams** to the polishing wheel or rollers. Apply **POLY lime** after each pass and remove the paste residue from the workpiece using a **micro-fibre cloth**.

■ Abrasives for pipe grinding



POLY-PTX® grinding belt in high quality corundum

Application:

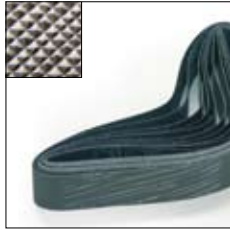
For coarse grinding, for pre-grinding, descaling, rust removal and smoothing.

For use on the following materials:

Round pipes made of metal

Dimensions: 30 mm x 600 mm

Grit: 40, 60, 80, 120, 150, 180, 240



POLY-PTX® TZ-Pyramid belt

Application:

For removing scratches, roller skin and spot welds and for pre-grinding before polishing to a mirror finish. TZ-Pyramid belts allow a very large amount of material to be removed whilst also producing a fine finish.

Material: New grit structure (pyramid-shaped)

Dimensions: 30 mm x 600 mm

Grit: A100, A65, A45, A30, A16, A06



POLY-PTX® SuperPolish belt (closed)

Application: For perfect, brilliant mirror finishes on pipe constructions and handrails without smearing and shadows. SuperPolish is absorbent, does not smear and saves a lot of time.

Material: Revolutionary special nylon fleece

Dimensions: 30 mm x 660 mm



POLY-PTX® special adhesive tape

Application:

For reclosing grinding and TZ-Pyramid belts. Heat-resistant and high adhesive force.

Material: Adhesive tape with longitudinal reinforcement for tear-resistant hold.

Dimensions: 25 mm x 50 mm



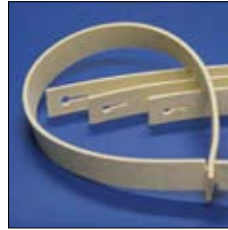
POLY-PTX® fleece belt (open)

Application: For removing minor scratches and oxide layers, matt and satin finishes, final grinding, pre-polishing and deburring on "closed" pipe constructions and handrails.

Material: Fleece fabric impregnated with grit + fabric reinforcement with "buttonhole fastening" (protected by international patent and registered utility model)

Dimensions: 30 mm x 660 mm

Grit: Coarse, medium, fine, super-fine



POLY-PTX® felt belt (open)

Application:

For the main polish on "closed" pipe constructions and handrails. To be used with the grinding belt roller and our polishing pastes and creams.

Material:

Soft merino felt with "buttonhole fastening" (protected by international patent and registered utility model)

Dimensions: 30 mm x 660 mm



POLY-PTX® grinding belt roller with stainless steel edge

(protected by international trade mark rights / DGM-protected)

Application: For grinding, fleece, TZ-Pyramid, SuperPolish and felt belts.

Material: Wear-resistant, soft Vulculan with stainless steel discs on the sides and a double keyway. The surface is grooved to ensure that the abrasive does not slip.

Dimensions: Ø 85 mm x 70 mm



→ 117

See page 117 for a detailed TIP for polishing pipes to a mirror finish!

TIP

Adhesive tape

Closed grinding belts such as the **grinding belt** or the **TZ-Pyramid belt** are cut open for working on closed pipe constructions, placed around the pipe and glue to overlap over their **entire length (approx. 370°)** using our **special adhesive**.

Buttonhole fastening

Patented



Fleece and felt belts with the patented "buttonhole fastening" are ideal for working on closed pipe constructions and handrails. Once the belt has been placed around the pipe, it can quickly be fastened and reopened if necessary using the "buttonhole fastening". This makes changing the grinding belt quick and extremely simple. The belt can be opened and closed as often as necessary.



POLY-PTX®

ECO SMART SYSTEM

NEW

The new low cost longitudinal grinding system with fast abrasive changing system. Simply slide the abrasive rollers on to the Eco Smart adapter - and the machine fastens it automatically when it starts turning.

**A revolution in
longitudinal grinding**





Patent pend.

POLY-PTX® **ECO SMART SYSTEM**

- **POLY-PTX® Eco Smart adapter** – For use with POLY-PTX® 500+ and all longitudinal grinders with a Ø 19 mm spline shaft.
- **POLY-PTX® Eco Smart adapter** – Newly developed abrasive mounting for abrasive changes as fast as lightning.
- **POLY-PTX® Eco Smart adapter** – Guarantees immediate, secure fixing of the abrasives.
- **POLY-PTX® Eco Smart adapter** – A finned rigid rubber sleeve which ensures zero vibration and 100% concentricity.
- **POLY-PTX® Eco Smart** – No spacer rings required for narrow abrasives.
- **POLY-PTX® Eco Smart** – Abrasives can be positioned completely free on the finned shaft.
- **POLY-PTX® Eco Smart** – Massive savings for grinding rollers since no roller cores such as spline sleeves or casting resin are required.
- **POLY-PTX® Eco Smart** – For the first time allows roller widths of up to 150 mm, for faster, shadow-free surface finish.

Extensive range of accessories

A selection of roller abrasives for the POLY-PTX® Eco Smart. The complete lack of any roller cores makes the abrasives lighter. This makes it easier to use and transport them.

POLY-PTX®
ECO SMART

Protected by international trade mark rights



POLY-PTX® Eco Smart adapter

For using Eco Smart abrasives with the POLY-PTX® 500+ Professional or with other longitudinal grinders with Ø 19 mm spline shaft. Simply place the adapter on the spline shaft and you can start using low cost Eco Smart abrasives.

Dimensions: External Ø 45 mm, internal Ø 19 mm with two keyways; width 100 mm



POLY-PTX® Eco Smart flap wheel

Application: For removing rust, oxide layers and minor scratches and for regaining and burnishing metals

For use on the following materials: All metals and wood

Material: high quality corundum

Dimensions: Ø 105 mm; widths 100 mm, 50 mm

Grit: 24, 40, 50, 60, 80, 120, 180, 240



POLY-PTX® Eco Smart expansion roller

Application:

For using zirconium, TZ-Pyramid, fleece, felt and SuperPolish sleeves.

Elastic due to patented segment design, this ensuring perfect workpiece adjustment and very simple change of the sleeve.

Dimensions: Ø 90 mm; width 100 mm



POLY-PTX® Eco Smart Interleave (Combi) wheel

Application: Metal: For matt and satin finishes and removing minor scratches, rust, oxide, etc.

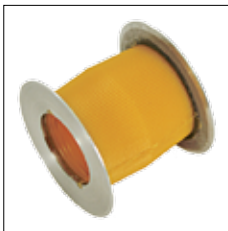
Wood: Removing old coatings

For use on the following materials: All metals and wood

Material: Nylon fleece impregnated with grit with special corundum abrasive cloth

Dimensions: Ø 105 mm; widths 150 mm, 100 mm, 50 mm

Grit: 60, 80, 180



POLY-PTX® Eco Smart grinding belt roller with stainless steel edge

(protected by international trade mark rights / DGM-protected)

Application:

For grinding, fleece, SuperPolish and felt belts.

Material: Wear-resistant, soft Vulcan with stainless steel discs on the sides. The surface is grooved to ensure that the abrasive does not slip.

Dimensions: Ø 85 mm; width 70 mm



POLY-PTX® Eco Smart FLEECE (nonwoven) wheel (patented)

Application: For the shadow-free industrial finishes (matt and satin), pre-polishing, removing oxide layers and for smoothing preground sheets.

For use on the following materials: VA, stainless steel, non-ferrous metals, wood

Material: Elastic nylon fleece wheel impregnated with grit

Dimensions:

Ø 105 mm; widths 150 mm, 100 mm, 50 mm

Grit: 60, 80, 180, 280, 400

The Eco Smart system makes it possible to grind down to the fold.



The Eco Smart MIX and FLEECE wheel is available in K80 and K180 in widths of 150 mm, 100 mm and 50 mm.



TIP



Simply attach the POLY-PTX® Eco Smart adapter to the 19 mm spline shaft of the POLY-PTX® 500+ longitudinal grinder and you can start to use low cost POLY-PTX® Eco Smart abrasives straight away.



NEW

POLY-PTX® **ACCU 28V**

The only cordless longitudinal grinder in the world that can be used continuously for 10 to 15 minutes on one charge.

The basic set includes a charger and a second battery.

For use with grinding and polishing rollers as well as brushes where there is no mains supply, for example on sites or for assembly work.

- **POLY-PTX® ACCU** – Two powerful lithium-ion batteries, 28 V, 3.0 Ah in the basic set.
- **POLY-PTX® ACCU** – Ergonomic, no vibrations and widely adjustable handle (protected design).
- **POLY-PTX® ACCU** – Charging time just 30 to 40 minutes.
- **POLY-PTX® ACCU** – Basic set in case complete with:
 - POLY-PTX® Accu base unit
 - Two lithium-ion batteries 28 V, 3.0 Ah
 - One safety hood for roller abrasives up to Ø 115 mm
 - Sturdy plastic case
 - Fast charging station for batteries
 - One fleece wheel 100 mm wide
 - 1 grinding belt roller and 2 fleece wheels
 - 1 space ring set



1 Two batteries with 28 V, 3.0 Ah in the basic set. That means that you always have a charged battery available for use.



2 Fast charging station for the batteries. Charging time just 30 to 40 minutes.



3 Adjustable handle suitable for right and left-handed users. Anti-vibration handle for comfortable, fatigue-free working.



4 The battery can be changed quickly and is positioned so that the unit is well balanced in your hand.



LED battery capacity indicator



Surface grinding and polishing



Pipe grinding

Patented and design protection

Technical data

Charger mains connection 230 V ~ 50 – 60 Hz

Rating 28 V, 3,0 Ah

Speed Approx. 3,000 rpm

Weight including battery 3,7 kg



■ Polishing and preserving products



Pre-grinding and polishing paste

Application: For pre and main polish:
White for pre-polish,
Blue for final polish

For use on the following materials:
All Metals

Content: Cardboard sleeve dispenser for pressing out; content approx. 650 g;
Mini-pastes white and blue, approx. 60 g each



Pink polishing cream

Application: For the final polish. Produces a perfect mirror finish with SuperPolish and POLY-PTX® top finish rings.

For use on the following materials:
All Metals

Content: Can 1 kg; mini-tube approx. 60 ml



POLY lime

Application: For removing cream and paste residues. Simply scatter on the surface and wipe off with a micro-fibre cloth.

For use on the following materials:
All metals + rigid plastics

Content: Can 1 kg; aluminium dispenser can 150 g



Micro-fibre cloths

Application: For pore-deep cleaning and even distribution of preservatives and polish. Remove paste and cream residues

For use on the following materials:
All metals + rigid plastics

Size: 350 mm x 350 mm



Brilliance Clean

Application: Removes fingerprints, grinding dust, paste residues and minor oil and grease dirt and adhesive residue from all surfaces completely and with no streaks without harming the surfaces and evaporates in seconds.

For use on the following materials:

Stainless steel, steel, aluminium, brass, copper, plastic, wood, glass, Plexiglas and coated surfaces

Content: Canister 5 litres, spray bottle 500 ml



INOX Protect (hard sealant)

Application: Seals and protects ground and polished metal surfaces with a clear, invisible, dry adhesive film. Removes fingerprints and other dirt. Gives the ground surfaces long term protection.

For use on the following materials:

Stainless steel, steel, aluminium, brass and copper

Content: Canister 5 kg, spray bottle 500 ml



POLY Protect (oil film)

Application: For cleaning and preserving ground and polished surfaces. Fingerprints and water marks or shadows remain invisible for a long time. Can be used outdoors and also suitable for food use.

For use on the following materials:

Polished stainless steel and non-ferrous metal surfaces

Content: Canister 5 litres, spray bottle 500 ml

→ 120

See page 120 for a detailed **TIP** for preserving and protecting surfaces!



TIP

Preserve and protect ground or polished stainless steel surfaces

Paste and cream residues from polishing can be removed with **POLY lime**. Simply scatter the lime on to the surface and wipe it off with a micro-fibre cloth.

Paste residues, as well as fingerprints, grinding dust, minor oil and grease marks and adhesive residues can be removed easily and without streaks using

Brilliance Clean. Any residues will evaporate immediately.

To **protect** ground or polished metal surfaces, simply spray **INOX Pro-**

tect on to the surface,

rub with a micro-fibre cloth, wipe off with a dry cloth and polish briefly with the cloth. This will seal the surface with a dry, invisible protective film. The protective effect will last for several weeks; polished surfaces will not darken





MINI-MAX®

**Mini longitudinal
grinder**

Mini angle grinder

Mini cutter

Flexible shaft



**Multi-function machine
with four applications for
the professional use of
shaft abrasives.**



MINI-MAX®

- **MINI-MAX®** – Essential for service, repair, assembly, motor, workshops, painting workshops, etc.
- **MINI-MAX®** – For grinding jobs in difficult places (corners, edges, internal tanks, etc.), coarse grinding, finish grinding, satin and matt finishes, polishing to a mirror finish, miniature angle grinding and cutting.
- **MINI-MAX®** – Extensive range of abrasives for all grinding jobs on stainless steel, steel, non-ferrous metals, aluminium, wood and plastics.
- **MINI-MAX®** – Docking flexible shaft.
- **MINI-MAX®** – Machine holder for mounting or attaching the drive motor when working with the flexible shaft.



1 Adjustable handle suitable for right and left-handed users. Anti-vibration handle for working without fatigue.



2 Infinite speed adjustment for an optional grinding speed.



3 Grinding arm for improved abrasive control and working on inaccessible workpieces.



4 The grinding arm can be adjusted to suit areas with difficult access.



5 Flexible shaft, length 140 cm, 6 mm core.



Turning the guide handle through 90° turns the longitudinal grinder into an angle grinder.

Patented and design protection

Technical data

Mains connection	230 V ~ 50 – 60 Hz
Rating	800 watts
Collet chuc	Ø 6 mm
Speed	Infinitely adjustable from 3,700 to 13,000 rpm, speed setting
Safety electronics	Prevents accidental starting after a power cut
Dust protection	Effective dust protection with labyrinth air guide
Collet chuck	Ø 6 mm



Ready for a wide range of jobs with the basic set

■ The MINI-MAX® case set

The practical basic set includes: MINI-MAX® grinder and polisher and a wide-ranging accessories package, all tidy and accessible in a practical sturdy transport case.

(See price list for details of content!)

■ Accessories and shaft abrasives (shaft Ø 6 mm)



MINI-MAX® Mop wheel

Application: For cleaning, rust removal, removing scratches and longitudinal grinding.

For use on the following materials:

Stainless steel, steel, non-ferrous metals, wood, rigid plastic, etc.

Material: Flexible mini grinding fin wheel with high quality corundum

Dimensions: Ø 40 mm, width 10 mm
Ø 60 mm, width 30 mm

Grit: 40, 60, 80, 100



MINI-MAX® wire brush made of stainless steel

Application:

For descaling and cleaning welds, removing coatings and rust in corners, etc.

For use on the following materials:

Stainless steel, metals

Material: Brush with 6 mm steel shaft

Dimensions: Ø 10 x 100 mm



MINI-MAX® Mix wheel

Application: For removing minor scratches, oxide and coatings. For a medium fine finish.

For use on the following materials:

Stainless steel, steel, non-ferrous metals, wood, rigid plastic, etc.

Material: Mix wheel with 6 mm steel shaft

Dimensions: Ø 40 mm, width 20 mm
Ø 60 mm, width 30 mm

Grit: 80, 150, 240



MINI-MAX® CUT 1 mm cutting disc

Application:

For fast cutting instead of sawing pipes, sheets, etc.

For use on the following materials:

Steel, stainless steel and non-ferrous metals

Material: 1.0 mm thick cutting disc

Dimensions: Ø 75 mm; Ø 75 mm; disc mounting Ø 6 mm shaft (accessory)



MINI-MAX® Fleece wheel

Application: For matt finishes, final grinding and removing oxide. For smoothing wood fibres and rigid plastic.

For use on the following materials:

All metals, wood, rigid plastic, etc.

Material: Fleece wheel with 6 mm steel shaft

Dimensions: Ø 40 mm, width 20 mm
Ø 60 mm, width 30 mm

Grit: Coarse, medium, fine



MINI-MAX® Grinding pin assortment

Application:

For grinding internal edges, welds, pipes and corners.

Dimensions: Various diameters

Material: High quality corundum

Grit: Various grit sizes (K40 - K120)

Two steel mounting pins included



MINI-MAX® expansion roller and grinding sleeve

Application: Removes welds, heavy burrs, deep scratches, etc.

For use on the following materials:

Steel, Stainless steel and non-ferrous metals

Material: Expanding rubber rollers with 6 mm mounting shaft

Dimensions: Ø 30 x 30 mm and 45 x 30 mm

Grit: 40, 60, 80, 150



MINI-MAX® Felt polishing pins

Application:

For polishing in corners, troughs and recesses. Only for use with polishing pastes or cream.

For use on the following materials:

Stainless steel and non-ferrous metals

Material: Felt polishing pins with 6 mm steel shaft (merino)

Dimensions: Ø 30 mm; width 35 mm (cylindrical)
Ø 20 mm; width 25 mm (round)
Ø 15 mm; width 20 mm (pointed)



MINI-MAX® wire wheel made of stainless steel

Application:

For deburring and cleaning welds, coatings, rust, etc.

For use on the following materials:

Stainless steel, steel, metals, etc.

Material: Stainless steel wire wheel with 6 mm steel shaft

Dimensions: Ø 60 mm



Top finish and cotton rings

Cotton rings for polishing non-ferrous metals such as aluminium, brass, copper, bronze, etc.

Medium top finish rings made of special impregnated fabric for pre-polishing VA.

Extra soft top finish rings

made of special synthetic fabric for the main polish on VA and non-ferrous metals.

Dimensions: Ø 100 mm x 12 mm

→ 22

See page 22 for details of polishing pastes and creams.



Flexible shaft for MINI-MAX®

Application:

Compact flexible shaft with steel core for machining constricted are difficult access areas. All abrasives for the MINI-MAX® can also be used with the flexible shaft.

Dimensions: Length 140 cm, collect chuck Ø 6 mm, for speeds of up to max. 25,000 rpm, can be used with grinding wheels up to Ø 60 mm (internal core 6 mm).



Clamp holder for MINI-MAX®

Practical clamp and hanging holder made of steel for securely fastening the MINI-MAX® when you are working with the flexible shaft. The holder can be inserted in a vice or hung on a hook, for example on the ceiling. Ideal for two-handed working method.



MINI-MAX®

ACCU 28V

NEW



**Powerful multi-function grinder for use
wherever there is no mains power.
For 10 to 15 minutes continuous use
with one battery charge**



MINI-MAX® ACCU 28V

- **MINI-MAX® ACCU** – For mini angle grinding, longitudinal grinding and for working with pin abrasives.
- **MINI-MAX® ACCU** – All the abrasives for the MINI-MAX® can also be used with the MINI-MAX® ACCU.
- **MINI-MAX® ACCU** – Ideal for grinding jobs in difficult places (corners, edges, internal tanks, etc.), coarse and finish grinding, satin and matt finishes, polishing to a mirror finish and miniature angle grinding with the MINI-FIX HOOK AND LOOP SYSTEM.
- **MINI-MAX® ACCU** – Two powerful lithium-ion batteries, 28 V, 3.0 Ah in the basic set.
- **MINI-MAX® ACCU** – With powerful high speed charger.
- **MINI-MAX® ACCU** – Charging time just 30 to 40 minutes.



Two batteries with 28 V, 3.0 Ah in the basic set. That means that you always have a fully charged battery available for use.



Fast charging station for the batteries. Charging time just 30 to 40 minutes.



Turning the guide handle through 90° turns the longitudinal grinder into an angle grinder.



Adjustable handle suitable for right and left-handed users. Anti-vibration handle for working without fatigue.



The battery can be changed quickly and is positioned so that the unit is well balanced in your hand.



Technical data

Charger mains connection 230 V ~ 50 – 60 Hz

Rating 28 V, 3.0 Ah

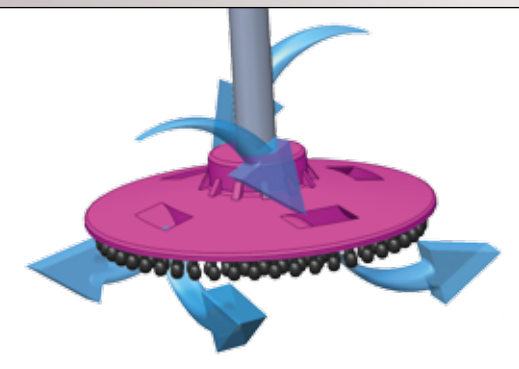
Speed Approx. 5,000 rpm

Weight including battery 3,6 kg

(See price list for details of set content!)

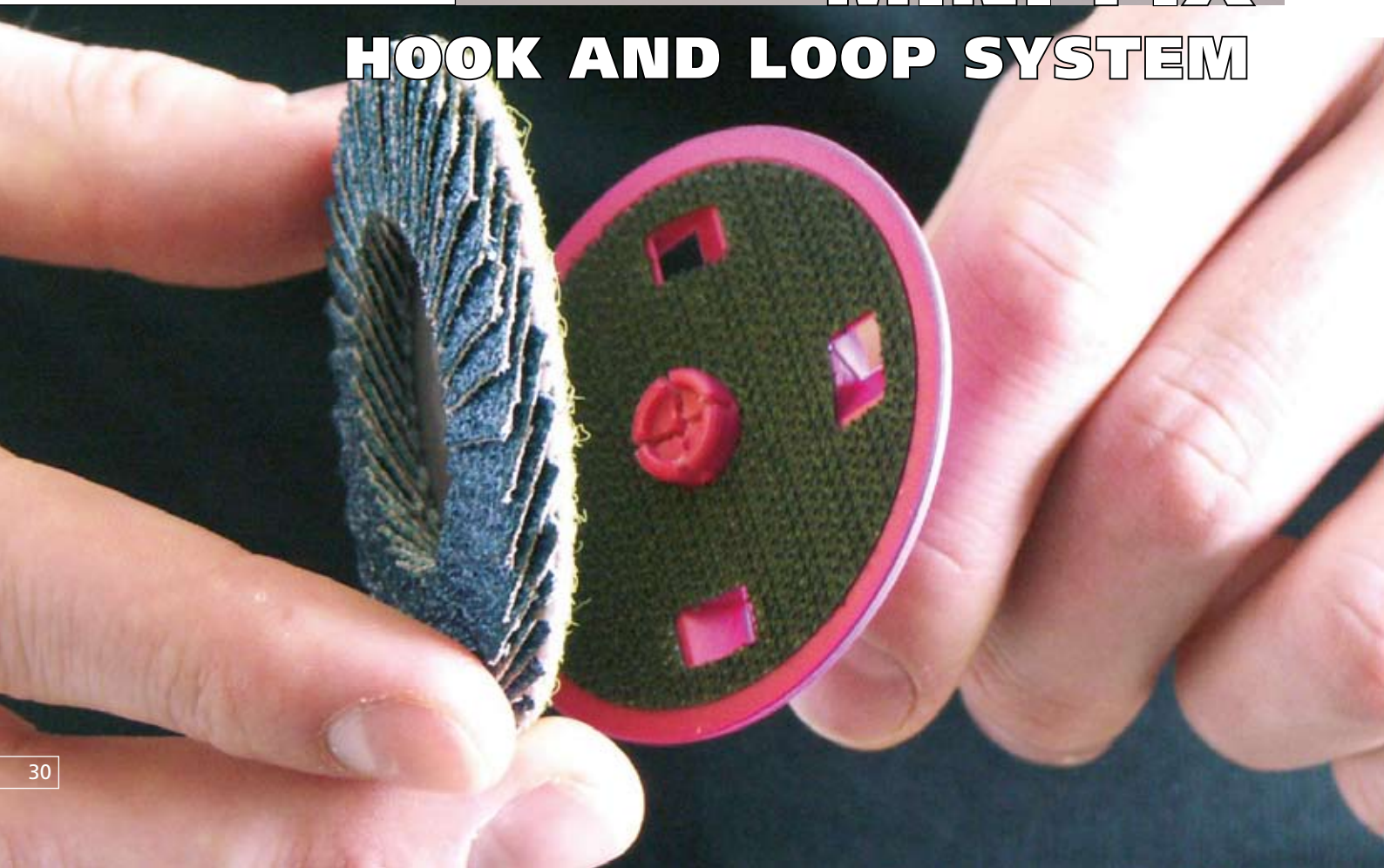
Patented and design protection





Patented

MINI-FIX HOOK AND LOOP SYSTEM

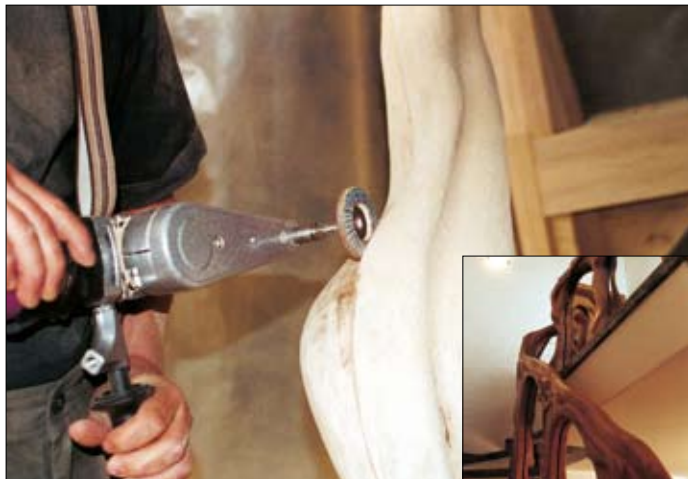




Ingenious quick-release changing system with extensive range of abrasives for mini angle grinding with **TURBO** cooling effect

- **MINI-FIX HOOK AND LOOP SYSTEM** – With elastic, air-cooled adhesive backing plate for excellent grinding results and a tool change as fast as lightning.
- **MINI-FIX HOOK AND LOOP SYSTEM** – With centring pin for 100% concentricity and simple, reliable positioning of the abrasives.
- **MINI-FIX HOOK AND LOOP SYSTEM** – With bead on the centring pin to ensure secure fastening even at high speeds.
- **MINI-FIX HOOK AND LOOP SYSTEM** – For perfect results in places with difficult access.
- **MINI-FIX HOOK AND LOOP SYSTEM** – Ideal for use in metal and motor workshops for descaling and rust removal in difficult areas.
- **MINI-FIX HOOK AND LOOP SYSTEM** – For MINI-MAX®, speed-controlled pneumatic grinders with 6 mm collet chuck and with and adapter for one-hand angle grinders such as the VARILEX® WSF 900 Duo.
- **MINI-FIX HOOK AND LOOP SYSTEM** – Large selection of professional abrasives for final grinding and polishing work on small workpieces.

■ Suitable for a wide range of applications



Wood: Rustic sanding of a wooden railing with MINI-MAX® and MINI-FIX flap discs



Ideal for the metal and motor trades and for painters, coaters, prototype builders, etc.



MINI-FIX backing pad

Flexible grinding plate with hook & loop fastening, cooling slots for reduced grinding temperature and Ø 6 mm shaft (for example for MINI-MAX®). Centring pin for perfect, zero vibration concentricity.

Application: For MINI-FIX flap discs, MINI-FIX CLEAN, MINI-FIX fleece discs and MINI-FIX felt discs.

Dimensions: Ø 60 mm; Ø 6 mm shaft or with M14 thread



MINI-FIX adhesive backing pad with PUR damping layer

Flexible adhesive backing plate with hook & loop fastening and a special 6 mm thick damping layer. The centring pin is visible to ensure that the grinding disc can be precisely centred.

Application: For TZ-Pyramid discs, MINI-FIX fleece discs and MINI-FIX SuperPolish felt.

Dimensions: Ø 60 mm, Ø 6 mm shaft or with M14 thread

■ Abrasives for MINI-FIX backing plate:



MINI-FIX flap disc (flexible)

Application: Extremely long service life, high material removal, uniform, clean finish without material discolouration; adjusts perfectly to the abrasive. On eco friendly backing material!

Dimensions: Ø 63 mm

Grit: 40, 60, 80, 120



MINI-FIX CLEAN disc (flexible)

Applications: Cleaning and pore-deep removal of coatings, scale, rust and dirt on metals. Same effect as sand-blasting; cleans without material removal.

Material thickness approx. 15 mm

Dimensions: Ø 63 mm



MINI-FIX SC fleece disc (highly elastic)

Impregnated fleece material with hook & loop velour.

Application: For finishing, pre-polishing and between coatings.

Max speed 10,000 rpm

Dimensions: Ø 60 mm

Grit: Coarse, medium, fine, super-fine

■ Abrasives for MINI-FIX adhesive backing plate with PUR damping layer:



MINI-FIX TZ-Pyramid disc

New abrasive fabric with pyramid-shaped grit structure. High material removal with low contact pressure. Saves several work cycles. Very fine finish.

Application: Ideal for coarse and fine grinding before polishing to a mirror finish.

Dimensions: Ø 60 mm

Grit: A100, A65, A45, A30, A16, A06



MINI-FIX SuperPolish disc

New special needled fibre. To be used with pastes (white and blue) and pink cream to produce a brilliant mirror finish on VA and non-ferrous metals without smearing or shadows. SuperPolish is absorbent and will not smear. Always use a different SuperPolish disc for each paste and cream.

Dimensions: Ø 60 mm, 5 mm thick



MINI-FIX felt disc (merino)

Application: Polishing to a mirror finish in combination with white and blue polishing pastes and polishing cream.

Dimensions: Ø 60 mm, 3 mm thick

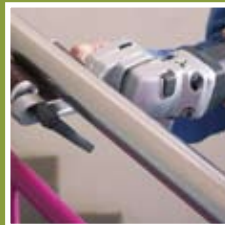


See page 22 for details of polishing pastes and creams.



PIPE-FIX BELT GRINDING SYSTEM

Compact pipe sander and
finger belt sander in one.



1 tool – 2 functions



PIPE-FIX BELT GRINDING SYSTEM

- **PIPE-FIX** – Compact machine for small pipes, handrails, etc. and for assembly and repair work.
- **PIPE-FIX** – For perfect grinding and polishing of closed and open pipe constructions.
- **PIPE-FIX** – Handy and powerful.
- **PIPE-FIX** – From coarse grinding to end finish for all conventional handrail diameters.
- **PIPE-FIX** – Fast conversion from a pipe grinder to a belt file without using tools.
- **PIPE-FIX** – Belt file for difficult grinding and polishing work in constricted areas.
- **PIPE-FIX** – Homogeneous, absolutely transition-free finish even on long railings.
- **PIPE-FIX** – Grind, burnish, file and polish in areas with difficult access with the belt file attachment.
- **PIPE-FIX** – Infinitely adjustable speed.

PIPE-FIX

Pipe belt grinder



1 The narrow grinding belt is guided securely in a groove ensuring that it cannot become displaced. No adjustment required.



2 Cam rings on the drive roller guarantee that the belt is driven without slipping and control the belt precisely. The O rings can be replaced quickly and at low cost if they suffer wear.



3 Infinite speed adjustment for an optional grinding speed.



4 Adjustable handle suitable for right and left-handed users. Anti-vibration handle for working without fatigue.

PIPE-FIX in its finger belt sander setting with optional machine holder for stationary use.



Patented and design protection



Technical data

Mains connection 230 V ~ 50 – 60 Hz

Rating 800 watts

Speed 1,300 to 5,900 rpm

Pipe sander

Belt width 60 mm

Belt length 260 mm

Finger belt sander

Belt width 9 mm

Belt length 533 mm

Everything you need!



■ PIPE-FIX basic set in case

With PIPE-FIX base unit, grinding belts and grinding fleece belts, belt filing attachment with corundum grinding belts, grinding fleece belts and SuperPolish belts as well as mini polishing pastes.
(See price list for details of content!)

■ Abrasives for the PIPE-FIX belt grinding system



PIPE-FIX high quality corundum grinding sleeve (wide belt)

Application:
For reducing welds, removing deep scratches, rust, scale and for coarse industrial grinding.
Material: High quality corundum
Dimensions: 60 mm x 260 mm
Grit: 60, 80, 120



PIPE-FIX high quality corundum grinding belt (narrow belt)

Application:
For reducing welds, removing deep scratches, rust, scale and for coarse industrial grinding.
Material: Edelkorund
Dimensions: 9 mm x 533 mm
Grit: 40, 60, 80, 120



PIPE-FIX TZ-Pyramid grinding sleeve (wide belt)

Application:
Allows very high material removal whilst producing a very fine finish (reduces the number of stages required). Ideal for removing scratches and for pregrinding for polishing to a mirror finish.
Material: New grit structure (pyramid-shaped)
Dimensions: 60 mm x 260 mm
Grit: A 100, A 65, A 45, A 30, A 16, A 06



PIPE-FIX TZ-Pyramid belt (narrow belt)

Application:
Allows very high material removal whilst producing a very fine finish (reduces the number of stages required). Ideal for removing scratches and for pregrinding for polishing to a mirror finish.
Material: New grit structure (pyramid-shaped)
Dimensions: 9 mm x 533 mm
Grit: A 100, A 65, A 45, A 30, A 16, A 06



PIPE-FIX SC fleece sleeve (wide belt)

Application: For removing minor scratches and oxide layers, matt and satin finishes and deburring pipe constructions and handrails.
Material: Nylon fleece impregnated with grit with reinforcement fabric
Dimensions: 60 mm x 260 mm
Grit: Medium (red), fine (blue), super-fine (grey)



PIPE-FIX SC fleece belt (narrow belt)

Application: For removing minor scratches and oxide layers, matt and satin finishes and deburring.
Material: Nylon fleece impregnated with grit with reinforcement fabric
Dimensions: 9 mm x 533 mm
Grit: Medium (red), fine (blue), super-fine (grey)



PIPE-FIX merino felt sleeve (wide belt)

Application:
For main polishing and polishing to a mirror finish
For use on the following materials:
Stainless steel, non-ferrous metals such as aluminium, brass, copper, etc.
Dimensions: 60 mm x 260 mm;
Material thickness 5 mm



PIPE-FIX merino felt belt (narrow belt)

Application:
For main polishing and polishing to a mirror finish
For use on the following materials:
Stainless steel, non-ferrous metals such as aluminium, brass, copper, etc.
Dimensions: 9 mm x 533 mm



PIPE-FIX SuperPolish sleeve (wide belt)

Application:
Revolutionary special fleece produces a brilliant mirror finish when used with pastes and polishing cream (will remove even the finest smears). Absorbent, will not smear.
Dimensions: 60 mm x 260 mm;
Material thickness 5 mm

TZ-Pyramid grit comparison table

TZ-Pyramid grit	A100	A65	A45	A30	A16	A06
Result corresponds to grit	220	320	400	600	1,200	2,000
Material removal corresponds approx. to grit	36	40	50	60	80	120

Fleece comparison table

	Medium (red)	Fine (blue)	Super-fine (grey)
Corresponds approx. to grit	180	280	400



PIPE-MAX PIPE BELT GRINDER



Comfortable grinding and polishing from small to large pipe diameters as well as flat surfaces.

New developed damping system with gas pressure dampers makes for very easy pipe adjustments and fatigue-free working.

1600 watts rating



PIPE-MAX

PIPE BELT GRINDER

- **PIPE-MAX** – For perfect grinding and polishing on closed and open pipe constructions – from small to large pipe diameters.
- **PIPE-MAX** – Homogeneous, uniform grinding and polishing results on all pipe diameters, regardless of whether they are small or large.
- **PIPE-MAX** – New damping concept with gas pressure dampers allows the grinding and polishing belts to be “slung” round the pipes perfectly without no great force.
- **PIPE-MAX** – New drive roller with replaceable rubber O rings guarantees that the belts will not slip.
- **PIPE-MAX** – Simple, low cost replacement of the rings if they are worn.
- **PIPE-MAX** – Return roller made of soft PUR material. This ensures particularly soft contact and permanent elasticity.
- **PIPE-MAX** – The soft return roller also allows flat surfaces to be ground longitudinally, for example to remove spot welds and deep scratches, etc.
- **PIPE-MAX** – Fast, easy belt changing.
- **PIPE-MAX** – Ideal belt guide using side stainless steel fittings. No more adjustments required.
- **PIPE-MAX** – Balanced and adjustable handles mean that they can be set to suit the job in hand.
- **PIPE-MAX** – Can be set up for right-handed and left-handed use or for side and overhead working.
- **PIPE-MAX** – The belt unit made of die-cast aluminium to make it particularly sturdy and resistant.

PIPE-MAX

Pipe belt grinder

1



The new damping system with gas pressure dampers.

2



The additional handle for comfortable overhead working.



The soft grinding roller made of PUR material also allows comfortable longitudinal grinding of flat surfaces, for example to remove spot welds or eliminate deep scratches.



3



The drive roller with the rubber rings ensures that the grinding belts will not slip. Worn rings can be replaced quickly and at particularly low cost.



You can follow the external contour of the pipe diameter with light, uniform contact pressure. The new damping concept with the elastic return roller allows the grinding and polishing belts to be slung around the external diameter of the pipes without great force.



Patented and design protection

2

3

1

Technical data	
Mains connection	230 V ~ 50 – 60 Hz
Rating	Up to 1600 watts
Speed	Infinitely adjustable from 950 to 3,500 rpm
Belt dimensions	40 x 780 mm

Everything you need!



■ PIPE-MAX basic set in case

With PIPE-MAX base unit, various grinding and fleece belts for perfect industrial grinding on pipes and flat surfaces. (See price list for details of content!)

■ Abrasives for the PIPE-MAX pipe grinder



PIPE-MAX grinding belt

Application:

For reducing welds, removing deep scratches, rust, scale and for coarse industrial grinding.

Material: High quality corundum

Dimensions: 40 mm x 780 mm

Grit: 40, 60, 80, 120



PIPE-MAX TZ-Pyramid grinding belt

Application:

Allows very high material removal whilst producing a very fine finish (reduces the number of stages required). Ideal for removing scratches and for pregrinding for polishing to a mirror finish.

Material: New grit structure (pyramid-shaped)

Dimensions: 40 mm x 780 mm

Grit: A 30, A 16



PIPE-MAX SC fleece belt

Application: For removing minor scratches and oxide layers, matt and satin finishes and deburring pipe constructions and handrails.

Material: Nylon fleece impregnated with grit with reinforcement fabric

Dimensions: 40 mm x 780 mm

Grit: Coarse (brown), medium (red), fine (blue), super-fine (grey)



PIPE-MAX SuperPolish belt

Application:

Revolutionary special fleece produces a brilliant mirror finish when used with pastes and polishing cream (will remove even the finest smears). Absorbent, will not smear.

Dimensions: 40 mm x 780 mm



See page 22 for details of polishing pastes and creams.

TIP

Changing the belt on the PIPE-MAX

1. Press the grinding roller backwards against the spring pressure.
2. Pull the grinding belt off over the edge of the drive roller.



Fitting the new belt:

3. Place the grinding belt over the rubber return roller.
4. Press the rubber return roller backwards against the spring pressure.
5. Place the grinding belt over the edge on to the drive roller and release the rubber return roller.





MULTI-MAX



Stationary multi-purpose grinder for all workshop grinding and polishing jobs.



MULTI-MAX

- **MULTI-MAX** – Two shaft mountings for grinding discs (for example flap discs) for angle grinders and grinding rollers for longitudinal grinders.
- **MULTI-MAX** – Also uses partly used grinding discs and grinding rollers.
- **MULTI-MAX** – Uses the ingenious FIX HOOK AND LOOP SYSTEM.
- **MULTI-MAX** – Powerful 750 watts AC motor.
- **MULTI-MAX** – Transparent, hinged grinding guard.
- **MULTI-MAX** – Roller support for accurate work.
- **MULTI-MAX** – Adjustable support rail with safety hood for grinding discs up to Ø 180 mm.
- **MULTI-MAX** – Drive motor for flexible shaft for grinding and polishing.



1 Shaft mounting for all abrasives from the POLY-PTX® system (with double keyway).



2 M14 mounting for grinding discs with a 22 mm borehole.



3 Uses the practical FIX HOOK AND LOOP SYSTEM.

→ 90

Extensive accessories supplied
(See price list for details of content!)

NEW

Docking flexible shaft
(M14 thread, 7 mm core)
for grinding and polishing
work on awkward workpieces.



→ 48

Can also be used
with the flexible
shaft on **page 48**.

Technical data

Mains connection	380 V ~ 50 – 60 Hz
Rating	750 watts
Speed	2,800 rpm





VARILEX® 1600

PROFESSIONAL





The most powerful speed-controlled professional angle grinder in its class.

Strong as an ox and infinitely adjustable.

A tool for all applications.



VARILEX® WSF 1600 PROFESSIONAL

- **VARILEX® WSF 1600** – Sturdy, enormously powerful motor with a rating of up to 1600 watts for hard continuous use.
- **VARILEX® WSF 1600** – Infinitely adjustable speed from 2,000 to 7,600 rpm.
- **VARILEX® WSF 1600** – Tacho-generator keeps the speed constant even under load.
- **VARILEX® WSF 1600** – Ideal for working with flap discs, grinding and cutting discs.
- **VARILEX® WSF 1600** – For grinding discs from Ø 100 mm to Ø 178 mm, ideal for cleaning, final grinding and polishing stainless steel and non-ferrous metals for the FIX HOOK AND LOOP SYSTEM and with an adapter for the MINI FIX HOOK AND LOOP SYSTEM.
- **VARILEX® WSF 1600** – Balanced and vibration-damped handle for fatigue-free working.
- **VARILEX® WSF 1600** – Particularly ergonomic handle for fatigue-free working and superbly balanced hand control.
- **VARILEX® WSF 1600** – For use as a drive motor for sturdy, flexible shafts (M14 thread).

VARILEX® WSF 1600

PROFESSIONAL



Simple, fast disc changing using the EASYLOCK clamp nut.



Adjustable cover guard.



New ergonomic design with vibration-damping handle for comfortable, fatigue-free working.



Dust-tight field coil with special coating.



Service cover allows the carbon brushes to be changed quickly.



Simple speed control during operation. Stable speed thanks to tachogenerator.

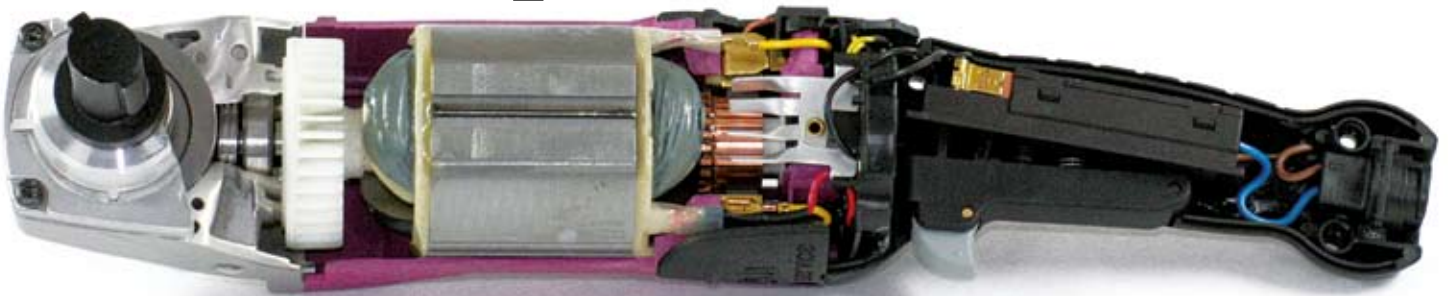


Ergonomically positioned locking ON/OFF switch.



QUICK-LOCK cable connection for fast, easy replacements, for example of damaged cables. Available cable lengths 4 m and 10 m (accessories).

4



5

6

8

2

3

7



Technical data

Mains connection	230 V ~ 50 – 60 Hz (Alternatively 110 V ~ 50 – 60 Hz)
Rating	Up to 1600 watts
Speed	Infinitely adjustable from 2,000 to 7,600 rpm

Case sets for VARILEX® WSF 1600

Professional angle grinder



VARILEX® starter set in case

Complete with VARILEX® angle grinder, FIX-HOOK AND LOOP backing pad, FIX flap discs, FIX Clean discs, FIX Fleece Top discs, FIX SuperPolish discs, FIX zirconium discs, mini polishing paste and POLY lime.
(See price list for details of content!)

NEW

Flexible shaft

■ for VARILEX® and MULTI-MAX

The new flexible drive shaft with a sturdy 7 mm core and docking M14 thread means that the VARILEX® WSF 1600 can now be upgraded to a powerful professional drive motor for all applications. Also ideal for 6 mm shaft abrasives and with an adapter for polishing rings up to Ø 150 mm.

Can also be used with the MULTI-MAX!



→ 118

See **page 118** for a detailed **TIP** for polishing stainless steel surfaces to a mirror finish with the VARILEX®!

TIP

Polishing stainless steel surfaces to a mirror finish with the VARILEX® WSF 1600



The VARILEX® WSF 1600 with the FIX HOOK AND LOOP SYSTEM is ideal for polishing stainless steel surfaces to a mirror finish. With the new larger adhesive backing plate with PUR damping layer with a diameter of 150 mm and the TZ-Pyramid and SuperPolish discs you can now work on large surfaces quickly and rationally.

→ 22

See **page 22** for details of polishing pastes and creams.

→ 90

FIX HOOK AND LOOP SYSTEM on page 90.



VARILEX® WSF 900 DUO

Compact angle grinder, longitudinal grinder and pipe trimmer in one



**Five applications – ideal for
assembly and site work**



VARILEX® WSF 900 DUO

- **VARILEX® WSF 900 DUO** – the miniature workshop for all craftsmen for assembly, site and motor work.
- **VARILEX® WSF 900 DUO** – Angle grinder with high torque for flap discs up to Ø 115 mm, the FIX HOOK AND LOOP SYSTEM up to Ø 115 mm and with an adapter for the MINI-FIX HOOK AND LOOP SYSTEM.
- **VARILEX® WSF 900 DUO** – the handy, small power pack which offers incredible versatility.
- **VARILEX® WSF 900 DUO** – Longitudinal grinder with the easy to attach Eco Smart mounting for 50 mm wide grinding rollers.
- **VARILEX® WSF 900 DUO** – The new special gearbox with reduced speed and high torque makes it a multi-talented tool.
- **VARILEX® WSF 900 DUO** – With grinding belt roller for grinding and polishing pipes.
- **VARILEX® WSF 900 DUO** – For use as a pipe cutter with the MAGNUM® Finecut cutting disc which is just 1 mm thick.

1



Fast disc changing without using tools with the new EASYLOCK clamp nut (see price list).

2



QUICK-LOCK cable connection for fast, easy replacements, for example of damaged cables. Available cable lengths 4 m and 10 m (accessories).

3



Infinitely adjustable speed from 2,000 to 5,000 rpm.

4



The cover guard for longitudinal grinding can simply be attached to the angle grinder.



Simply bolting on the Eco Adapter also allows the use of 50 mm POLY-PTX® Eco grinding wheels (see page 19).

1 tool - 2 functions

Angle grinder or longitudinal grinder in one!



Technical data

Mains connection	230 V ~ 50 – 60 Hz
Rating	Up to 900 watts
Speed	Infinitely adjustable from 2,000 to 5,000 rpm
Weight	Just 1.8 kg!

Supplied in an extensive case set

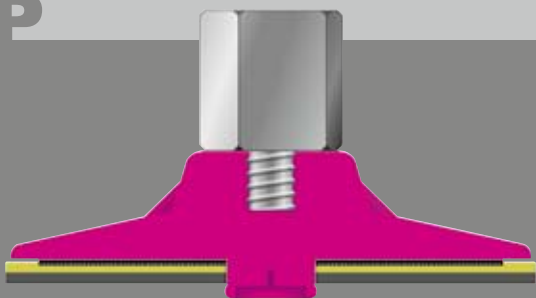


Starter set in case

Content: VARILEX® WSF 900 DUO base unit, safety hood, grinding belt roller, flap disc, MINI-FIX backing plate with discs, expansion roller with various grinding sleeves.

Possible uses extend from smoothing welds to producing a satin finish or polishing flat surfaces and pipes to a mirror finish, including polishing pastes and preservatives. (See price list for details of content!)

TIP



The MINI-FIX HOOK AND LOOP SYSTEM adhesive backing plate with M14 thread extends the range of applications of the VARILEX WSF 900 DUO to final grinding and polishing work as well as work in areas with difficult access. In the motor trade, in particular, there is a whole range of possible applications using MINI-FIX flap discs, MINI-FIX fleece discs and MINI-FIX Clean cleaning discs.



Accessories



VARILEX® DUO Eco Smart mounting

This adapter makes the VARILEX® DUO angle grinder into a complete longitudinal grinder for the 50 mm wide grinding rollers in the Eco Smart system.

Max. speed: 6,000 rpm (M14 thread)



VARILEX® DUO expansion roller

For using all 50 mm wide grinding, TZ-Pyramid, fleece and SuperPolish sleeves on the VARILEX® WSF 900 DUO.

Max. speed: 6,000 rpm (M14 thread)



VARILEX® DUO grinding belt roller (Return roller)

For using grinding belts for treating open and closed pipe constructions.

Made of wear-resistant soft Vulculan with side guide discs made of stainless steel. The surface is grooved to ensure that the abrasive does not slip.

Max. speed: 6,000 rpm (M14 thread)



→ 16



VARILEX®

NEW

ACCU 28V

A dream for any craftsman



**The most powerful cordless angle grinder in the
world for 10 to 15 minutes hard continuous
use with a single charge**



VARILEX® ACCU 28V

- **VARILEX® ACCU** – Two powerful modern lithium-ion batteries, 28 V, 3.0 Ah in the basic set.
- **VARILEX® ACCU** – Ready for use quickly wherever it is needed.
- **VARILEX® ACCU** – Ideal for site and assembly work, for rescue personnel and military and wherever there is no mains power.
- **VARILEX® ACCU** – For grinding, cutting, fine grinding, cleaning and polishing for discs up to 125 mm.
- **VARILEX® ACCU** – Charging time just 30 to 40 minutes.
- **VARILEX® ACCU** – Ergonomic, zero vibration handle with foam support.
- **VARILEX® ACCU** – Balanced, handy design for fatigue-free working.



Two batteries with 28 V, 3.0 Ah in the basic set. That means that you always have a fully charged battery available for use.



Fast charging station for the batteries. Charging time just 30 to 40 minutes.



Ergonomic, zero vibration handle for fatigue-free working.



The battery can be changed quickly and is positioned so that the angle grinder is well balanced in your hand.

Also ideal for FIX HOOK AND LOOP SYSTEM and MINI FIX HOOK AND LOOP SYSTEM.

→ 90

FIX HOOK AND LOOP SYSTEM on **page 90!**

→ 30

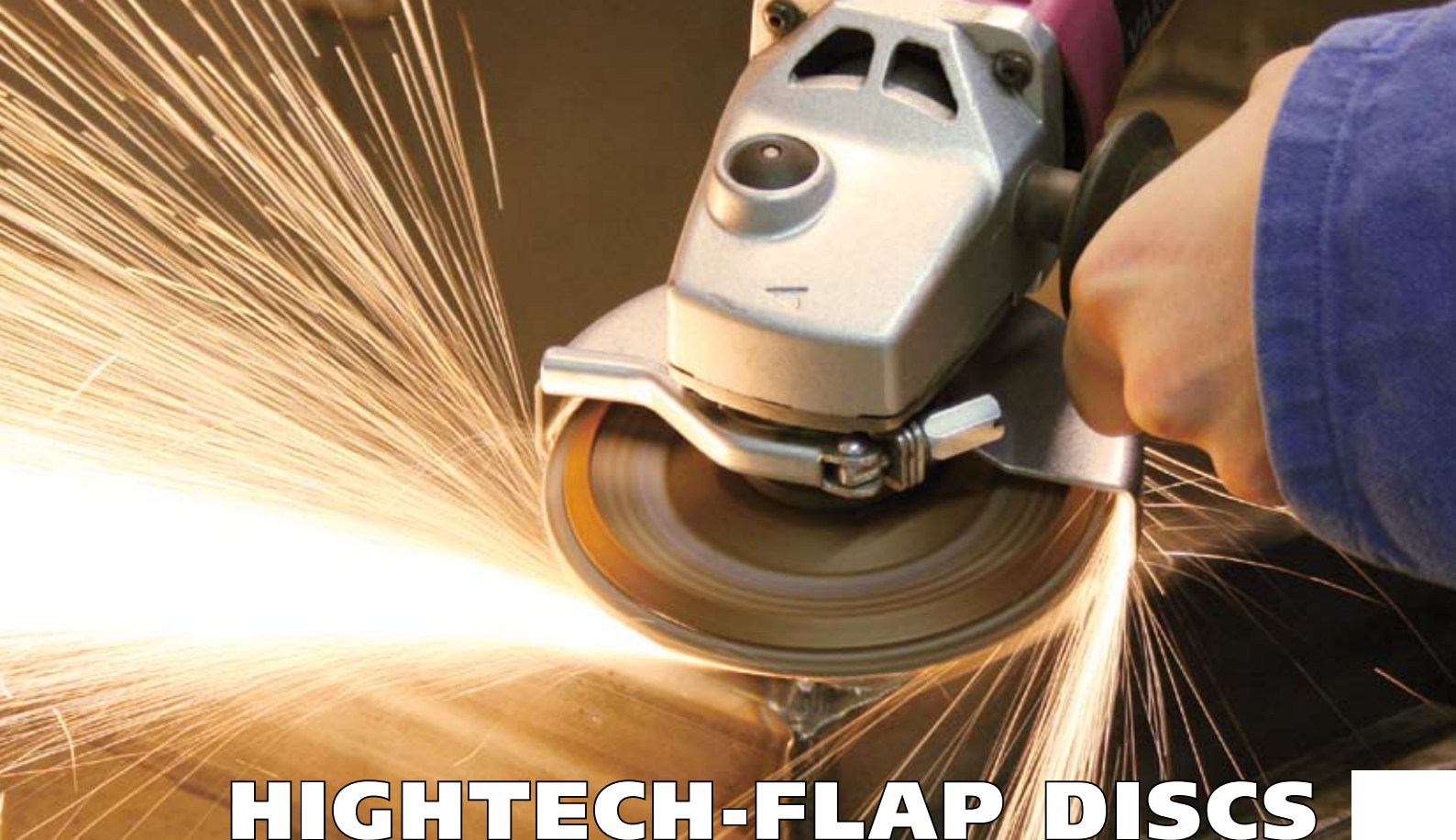
MINI FIX HOOK AND LOOP SYSTEM on **page 30!**



Technical data

Charger mains connection	230 V ~ 50 – 60 Hz
Rating	28 V, 3.0 Ah
Speed	approx. 9,000 rpm
Weight including battery	2.9 kg





Incomparable due to revolutionary technology

Eco-friendly and completely safe

Elastic backing plate

Superior performance and service life

Low vibration and heat-absorbent

Grind down to the last millimetre

■ Incomparable due to revolutionary technology –

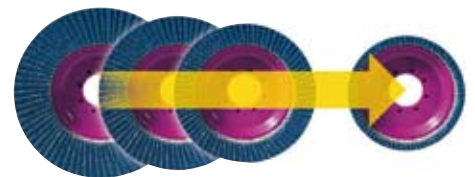
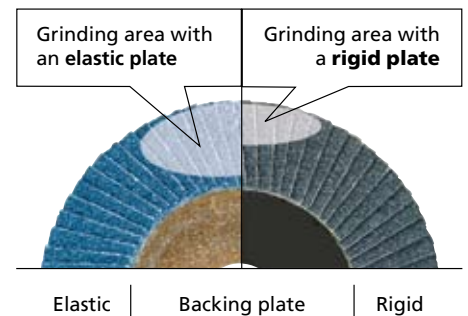
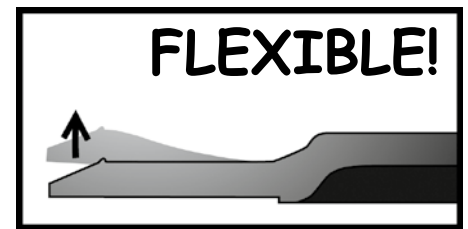
Completely new production process, backing disc made of “food-safe” ABS plastic or user-friendly, green hemp high tech compound material and special grinding fabric combinations provide a massive technical leap forward – for the benefit of our customers and to protect our climate.

■ Superior performance and service life –

Elastic backing plate, greater elasticity using the gluing process which is protected by international patents create a larger contact area during grinding, more flaps are on the workpiece, the material removal is higher with less grit loss, lower grinding temperature and a better surface finish quality.

■ Grind down to the last millimetre –

The backing plates are easy to trim around the outside whilst hemp high tech compound backing plates trim themselves during the grinding work. The disc is used down to the last millimetre of the **abrasive cloth**. Discs with glass fibre or glass fibre-reinforced polyamide plates, on the other hand, are difficult to trim and must be discarded with 30 – 40% grinding fabric remaining.



A comparison of the costs for flap discs with rigid backing plates and Eisenblätter grinding discs with elastic backing plates clearly proves the point:

Tested on our own grinding robot:

Tool costs per 100 g of ground steel for flap discs

with a rigid backing plate

(glass fibre/polyamide):

approx. EUR 0.35 to 0.60

Tool costs per 100 g of ground steel for Eisenblätter flap discs

with elastic backing plates:

approx. EUR 0.15 to 0.25



If you include the much longer service life and the savings in retooling times, heavy uses can quickly save thousands of euros per year.

There is nothing more expensive than a cheap product!



■ Beyond competition in technology and performance

Eisenblätter developed the first zirconium-based flap disc for high speed angle grinders at the end of the seventies. High quality and lots of innovation have been setting standards ever since and have had a major impact on the development of the flap disc. With almost 40 years of experience in the production of flap discs, Eisenblätter offers technology which nobody else can compete with and is now one of the largest manufacturers in the world. Flap discs from Eisenblätter are the absolute tops around the world in terms of material removal, service life and grinding quality.

■ Simply the best

Material removal, grinding quality and service life

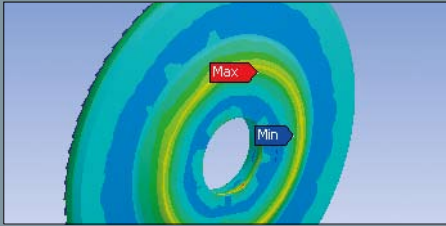
In addition to the grinding fabrics, the combination of elastic backing materials, the grit mixture of the flaps, the flap grinding angle, hard compression, gluing system, etc. are the main points that decide on the performance and service life of a flap disc.

This is where the chaff is sorted from the grain – not all flap discs are alike!

■ Eco-friendly and completely safe

We attach massive value to user friendliness and sustainability when we select our raw materials. Cloth fibre, mineral fibres and epoxy resins are completely ignored. We primarily use sustainable raw materials such as cotton and hemp as backing materials. Eisenblätter uses "food-safe" special plastics for its backing plates. The development of the hemp fibre high tech compound backing plate was an important contribution by Eisenblätter to preserving resources and reducing pollution. Another major contribution to safety, performance, service life and user friendliness is the patented, revolutionary gluing system with its elastic adhesive anchoring of the grinding abrasive cloth flaps. This considerably reduces vibrations and noise development.

Load FEM calculation



Hard-pressed flaps



Unpressed flaps



■ Unique, internationally patented production process

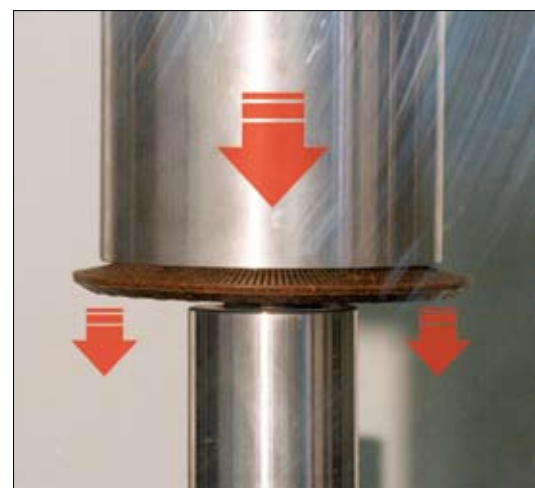
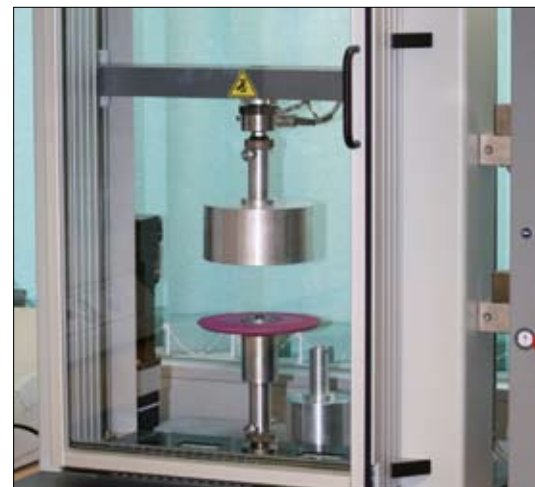
Completely new production technologies had to be developed to meet the high quality requirements that we make on our flap discs. The grinding flaps are glued to the backing plate by a revolutionary gluing process. Eisenblätter flap discs do not have to be cured in temperatures of up to 140°C. With the Eisenblätter process the required moisture remains in the abrasive cloth which means that it does not dry out and cannot therefore shred prematurely during grinding. The anchoring of the grinding flaps remains elastic which considerably reduces the noise development and vibrations.

In contrast to many competition products, the grinding flaps on Eisenblätter flap discs are completely pressed on to the backing plate throughout the entire curing process to produce a firm, compact abrasive which is stable when exposed to vibrations. This also supports the grinding grit and holds it securely in its anchoring. The service life of the grinding discs is thus increased enormously.

■ Tests and endurance trials assure the quality and provide the perfect conditions for advanced developments

The grinding discs are tested to ensure that they can withstand the required speeds on a centrifugal force testing machine. The test system can conduct tests at speeds of up to 30,000 rpm.

Endurance grinding tests are conducted on specially developed test systems during which the material removal and service life of the flap discs are measured. The suitability of new grinding fabrics is tested and the grinding properties on various materials is checked.





■ Testing grinding discs

Eisenblätter flap discs have been tested, certified and approved for 80 m/sec by the Material Testing Institution (MPA) pursuant to EN 13743.

The MPA is the oldest independent test laboratory for grinding discs in Europe and has been carrying out safety tests on grinding discs for 45 years on behalf of manufacturers and institutions.

The European standards EN 13743 "Safety requirements for coated abrasives" and EN 13236 and the test methods contained therein were essentially developed in a collaboration between the former DSA (German Grinding Disc Committee) and the MPA.

The MPA holds accreditation under DIN EN ISO/IEC 17025 for testing grinding discs and similar products in accordance with EN 12413 and EN 13236. This underlines MPA's position as the leading European test laboratory for rotating abrasives.

The international accreditation of MPA as a test body for grinding discs and comparable products gives its customers the security that the test reports it issues are acknowledged and accepted throughout the work as evidence of their safety.

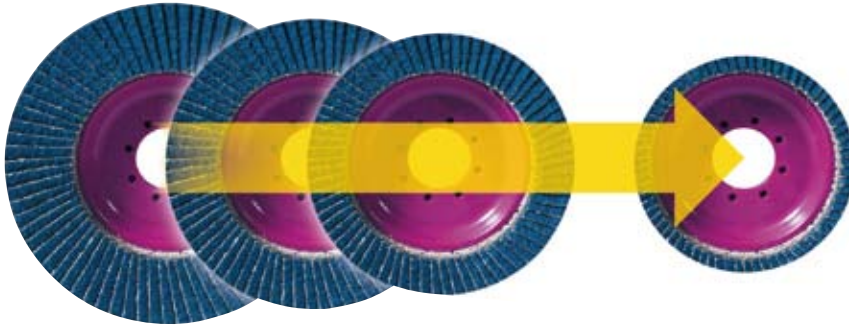
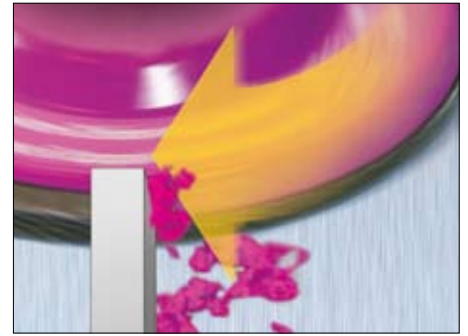


FLAP GRINDING DISCS

FROM EISENBLÄTTER

■ Backing plates made of "food-safe" plastic

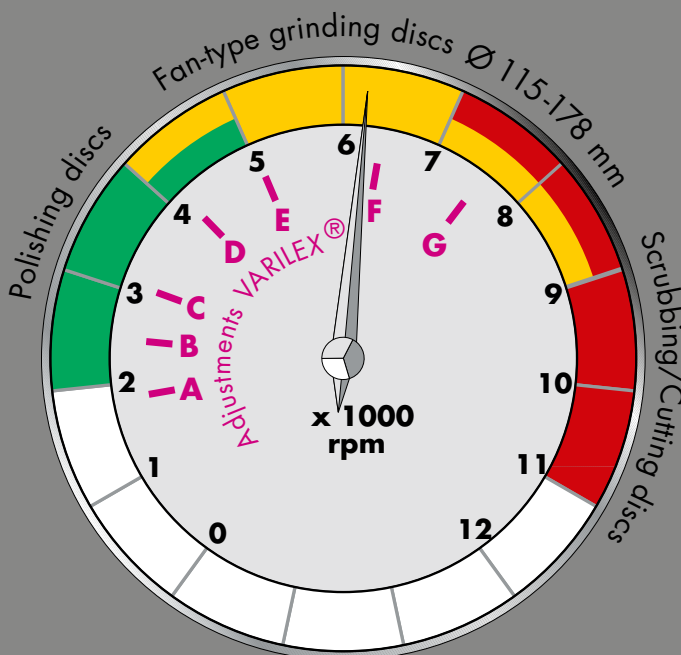
From the very beginning, Eisenblätter chose to use "food-safe" plastics (ABS) for its backing plates. Glass fibres, mineral fibres and epoxy resins are not used. Food-safe plastic backing plates do not generate any harmful abrasive emissions and are the first backing plates to eliminate trimming, therefore allowing the flap discs to be used down to the very last millimetre.



100% FERRITE-FREE

All abrasive cloth and backing plates used for Eisenblätter flap discs are 100% ferrite-free. Therefore corrosion is completely impossible when grinding stainless steel.

TIPP



Check the speed!

The right speed generally increases the service life of flap discs by up to 100% according to technical studies. This is a major factor for ensuring low cost work.

The perfect speed for flap discs is between 5,000 and 8,000 rpm. They provide their optimum performance and service life if used within this speed range.

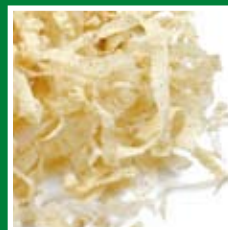
Speed-controlled, powerful angle grinders such as the VARILEX® WSF 1600 Professional are ideal for working with flap discs.

- Polishing discs
- Flap discs
- Scrubbing and cutting discs



STEEL/STAINLESS STEEL

PLANTEX®
HEMP HIGH TECH COMPOUND



The quantum leap in flap disc technology. In addition to excellent material removal and a long service life, these discs offer maximum safety and resource preservation, environmental friendliness and climate protection

Brand new!

Backing plate made of sustainable hemp



This is what is left after trimming: Soft, harmless chips which can be disposed of as household waste (their odour is similar to wood fibres).

■ Strength and safety by FEM

The hemp fibre is enormously tear-resistant as a result of its fibre structure. These high strength values have been achieved by using a new, patented treatment process (impact method).

Backing plates made of hemp fibre high tech compound are designed using the **finite element method (FEM)**. This ensures optimum strength and safety with minimal material use. All flap discs with hemp fibre high tech compound backing plates have been tested by the MPA (Material Testing Department in Hanover) and are **approved under DIN EN 13743 for speeds of up to 80 m/sec.**

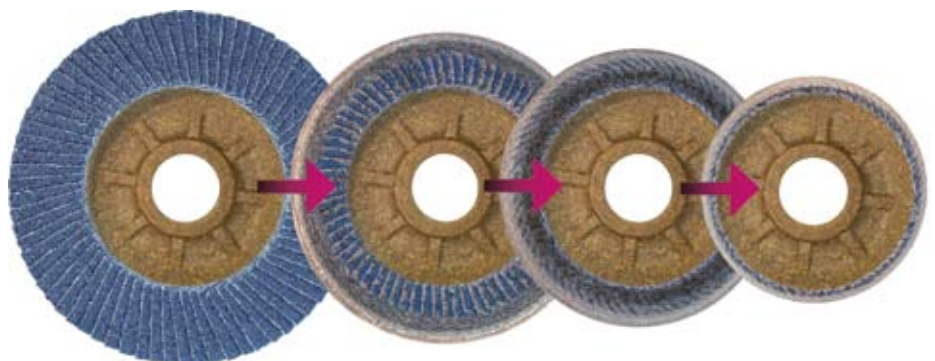
■ Hemp fibre high tech compound plays a major role around the greenhouse effect

The energy and CO₂ balances can stand up to any comparison:

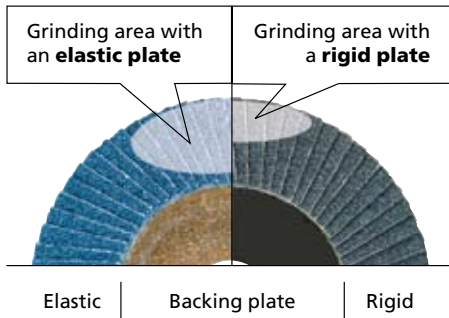
One ton of hemp biomass contains 500 kg of carbon, in other words one ton of hemp has converted approximately two tons of CO₂ (carbon dioxide) into oxygen by photosynthesis during its growth process. Hemp fibre high tech compound is easy to dispose of. Even the polypropylene binding agent can be incinerated to 1% carbon, with very little residue.

■ Grind down to the last millimetre

Backing plates made of hemp fibre high tech compound trim their own diameter during the grinding process. They can also be trimmed easily and without any problems. Flap discs with hemp fibre high tech compound backing plates can therefore be used down to the last millimetre of the abrasive cloth. Trimming leaves soft, harmless chips which can be disposed of as household waste (their odour is similar to wood fibres).



Use down the last millimetre by trimming during grinding or trimming by cutting using sharp steel.



■ The clever ones yield

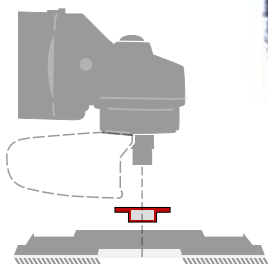
Flap discs with hemp fibre high tech compound backing plates have damping, springing properties as a result of their fibre substrate, which enhance their performance for grinding. This elasticity of the backing plate ensures better adjustment and a large contact surface area on the workpiece (more grit in use) and of course also removed more material from the workpiece. The larger contact area also results in greater heat dissipation, the grinding process is cooler, the workpiece does not smear as easily and the abrasive cloth does not burn.

■ Fast grinding disc changes without tools

All flap discs with hemp fibre high tech compound backing plates can also be supplied with an integrated M14 thread. The grinding disc can be changed without a lock nut and without the need for any tools.



Thermal disposal, incinerates without residue apart from 1% carbon



Only use flap discs with a machine support flange!



PLANTEX® UNIVERSAL

The ideal base material for backing plates for flap discs.

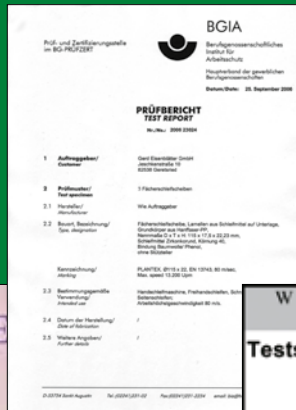
Since Eisenblätter launched the first flap discs with zirconium cloth for high speed angle grinders on the market at the end of the seventies, the company has had a major influence on the development of the flap disc with a whole series of innovative ideas.

The development of the new backing plates made of hemp fibre high tech compound saw the launch of the first flap disc with a backing plate made of sustainable hemp with a polypropylene binding agent.

Hemp fibre high tech compound is an absolutely ideal material for the backing plate:

- Maximum safety,
- Preserves resources and is completely green,
- Reduces pollution from production to waste disposal to a minimum,
- Heat-absorbent (hollow fibre insulation reduces the temperature during grinding),
- Self-trimming (the backing plate reduces in diameter automatically during the grinding process) or it can easily be trimmed by cutting,
- Completely safe,
- Easy waste disposal,
- Highly insulating, damping and noise-reducing,
- High strength with low weight,
- Great shape stability and nevertheless elastic,
- Resistant to most chemicals,
- Superb energy and CO₂ balance.





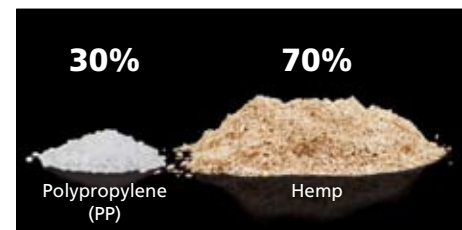
**UNIVERSAL
PLANTEX®**

PLANTEX®

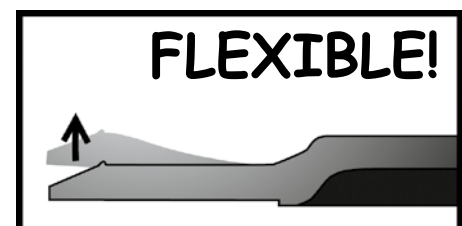
UNIVERSAL
Also available with M14 thread!



STEEL/STAINLESS STEEL



Approximate volume ratio



Technical data	
Dimensions	Ø 100, 115, 125, 150, 178 mm
with M14 thread	Ø 115, 125, 150 mm
Maximum speed	13,200 rpm (for example Ø 115 mm)
Ideal speed	5,000 to 8,000 rpm
Approval	80 m/sec DIN EN 13743
Grits	40, 60, 80, 120



PLANTEX® COOL TOP® 6

High performance disc

The hemp-based power pack for
maximum performance, safety and
environmental friendliness

- **PLANTEX® COOL TOP® 6** – Fantastic value for money.
- **PLANTEX® COOL TOP® 6** – with maximum material removal and service life.
- **PLANTEX® COOL TOP® 6** – Removes up to 100% more material.
- **PLANTEX® COOL TOP® 6** – With all the benefits of the hemp high tech compound backing plate.
- **PLANTEX® COOL TOP® 6** – Self-trimming and easy to trim by cutting.
- **PLANTEX® COOL TOP® 6** – New, improved composition and additional cooling agents for improved overall performance and even cooler grinding.
- **PLANTEX® COOL TOP® 6** – Saves money in your pocket. Service life often two to four times longer than conventional flap discs.
- **PLANTEX® COOL TOP® 6** – Not only the better solution, but also the lower cost solution.
- **PLANTEX® COOL TOP® 6** – Replaces fibre and grinding discs in many businesses.



PLANTEX® COOL TOP® 6
HIGH TECH COMPOUND

The legendary MAGNUM® COOL TOP® flap disc
now also with hemp high tech compound.
Backing plate made of sustainable raw materials.
For steel and stainless steel.

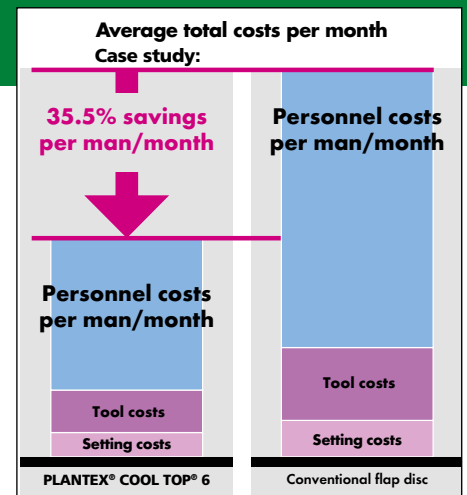
COOL TOP® 6
PLANTEX®

PLANTEX®

COOL TOP® 6
Also available with M14 thread!



STEEL/STAINLESS STEEL



Extensive practical and robot tests have shown the superiority of the PLANTEX® COOL TOP® 6 in terms of material removal, service life and cost savings.

FLEXIBLE!



Cross-section:
Hemp particles with dyed binding agent

Technical data	
Dimensions	Ø 115, 125, 150, 178 mm
with M14 thread	Ø 115, 125, 150 mm
Maximum speed	13,200 rpm (for example Ø 115 mm)
Ideal speed	5,000 – 8,000 rpm
Approval	80 m/sec DIN EN 13743
Grits	40, 60, 80, 120



PLANTEX® INOX-COLD STEEL®

Flap disc for treating stainless steel

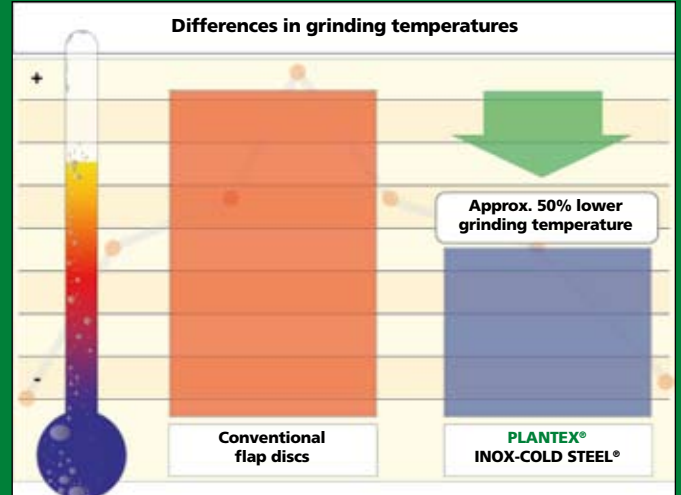
Backing plates made of the
sustainable raw material hemp

- **PLANTEX® INOX-COLD STEEL®** – Specially developed for treating stainless steel.
- **PLANTEX® INOX-COLD STEEL®** – Additional TOP side coating improves grinding performance, service life and prevents overheating and discolouration.
- **PLANTEX® INOX-COLD STEEL®** – Maximum material removal, service life, safety and environmental protection.
- **PLANTEX® INOX-COLD STEEL®** – Elastic, adjusts better to the surface of the workpiece during grinding.
- **PLANTEX® INOX-COLD STEEL®** – Heat-absorbent – reduces the temperature during grinding.
- **PLANTEX® INOX-COLD STEEL®** – Highly insulating, damping and noise-reducing.
- **PLANTEX® INOX-COLD STEEL®** – Completely safe.
- **PLANTEX® INOX-COLD STEEL®** – Grind down to the last millimetre. Trims automatically during grinding and can also be trimmed easily by cutting.
- **PLANTEX® INOX-COLD STEEL®** – Easy waste disposal.
- **PLANTEX® INOX-COLD STEEL®** – Simply convincing.



PLANTEX® INOX-COLD STEEL® HIGH TECH COMPOUND

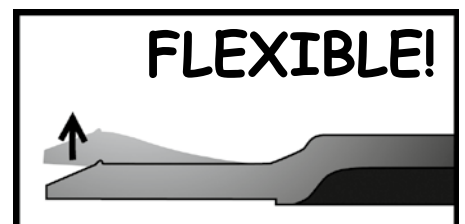
■ Special flap disc for stainless steel (INOX)



INOX-COLD STEEL
PLANTEX®

PLANTEX®

INOX-COLD STEEL
Also available with M14 thread!



Technical data	
Dimensions	Ø 115, 125 mm
with M14 thread	Ø 115, 125 mm
Maximum speed	13,200 rpm (for example Ø 115 mm)
Ideal speed	5,000 – 8,000 rpm
Approval	80 m/sec DIN EN 13743
Grits	40, 60, 80, 120



TRIMTEX®

The solution for welds and spot welds

Multi-function flap disc

- **TRIMTEX®** – The high number of upright grinding flaps (twice the number with small gaps between them) means that various types of work can now be combined in a single operation.
- **TRIMTEX®** – Multiple function: Under higher grinding pressure the flaps compress and grind more aggressively, under lower contact pressure the various flap parcels become springy and are ideal for fine grinding, finishing and deburring.
- **TRIMTEX®** – Ideal for welds and spot welds.
- **TRIMTEX®** – Grind down to the last millimetre: The backing plate trims itself during grinding or can be trimmed easily by cutting.
- **TRIMTEX®** – Ideal in corners and bear areas for smoothing welds (produces clean “soft” transitions for a perfect appearance).
- **TRIMTEX®** – Automatically adjusts to corner forms.
- **TRIMTEX®** – High cooling effect due to open flap arrangement reduces the grinding temperature on the workpiece considerably.
- **TRIMTEX®** – New active agent compositions in the abrasive cloth also reduce the grinding temperature on the workpiece.
- **TRIMTEX®** – 100% pure zirconium guarantees optimal results on steel and stainless steel.
- **TRIMTEX®** – Springy elastic grinding flaps actively prevent damage on the workpiece (no chatter marks).
- **TRIMTEX®** – Ideal for speed-controlled angle grinders such as the VARILEX® WSF 1600 Professional.



■ Brand new!

Patent + design protection

New type of flap disc for multi-function grinding in corners, beads and on flat surfaces – adjusted perfectly to radii.



Patent + design protection

TRIMTEX®

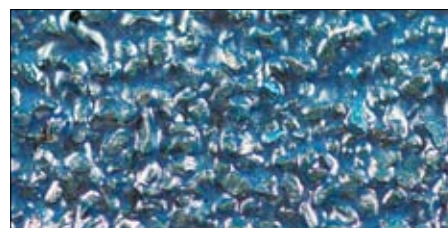
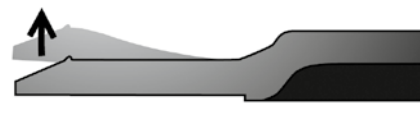
Hightech-Compound

TRIMTEX®

Soft grinding in corners for perfect grinding transition in TOP quality – prevents chatter marks



FLEXIBLE!



Technical data

Dimensions	Ø 125 x 22 mm
Maximum speed	9,700 rpm (for example Ø 115 mm)
Ideal speed	5,000 – 8,000 rpm
Approval	63 m/sec DIN EN 13743
Grits	40, 60

STEEL/STAINLESS STEEL



MAGNUM® COOL TOP® 5

Flap disc

Zircopur high performance flap disc ideal for shipyards, steel construction, etc.

- **MAGNUM® COOL TOP® 5** – Longer, faster and more efficient grinding.
- **MAGNUM® COOL TOP® 5** – The most powerful flap disc with a baking plate made of food-safe plastic.
- **MAGNUM® COOL TOP® 5** – New abrasive composition, RZ zirconium plus cooling agent, guarantees massive benefits compared to conventional flap discs:
Up to 50% faster material removal,
much longer service life compared to conventional flap discs,
cooler grinding due to additional cooling agents.
- **MAGNUM® COOL TOP® 5** – Suitable for universal use for steel, stainless steel, cast iron to non-ferrous metals for flat surface and edge grinding, coarse and intermediate grinding, treating fillet welds, rust removal, deburring and dressing castings.
- **MAGNUM® COOL TOP® 5** – Replaces not only fibre but also grinding discs in many businesses.

Its high material removal and excellent service life make the MAGNUM® COOL TOP® 5 not only the better but also by far the lower cost solution.

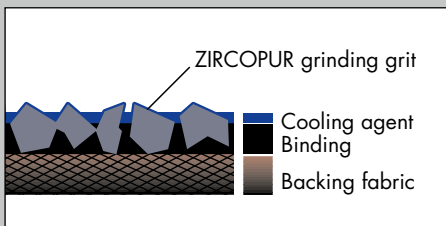
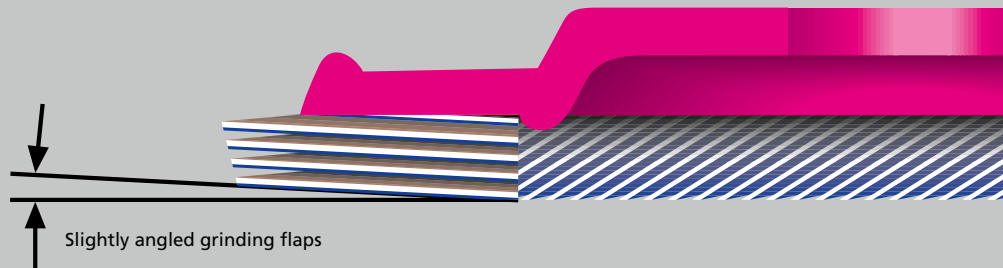




Trimming by cutting allows the disc to be used down to the last millimetre

MAGNUM® COOL TOP® 5

Flap disc



FIX-TEC or EASYLOCK nut for fastening without tools



MAGNUM®
Cool Top® 5

NEW

At least 50% improved performance due to improved composition!



FLEXIBLE!



Technical data

Dimensions	Ø 100, 115, 125, 150, 178 mm
Maximum speed	13,200 rpm (for example Ø 115 mm)
Ideal speed	5,000 – 8,000 rpm
Approval	80 m/sec DIN EN 13743
Grits	40, 50, 60, 80, 120



MAGNUM® FILLET WELD

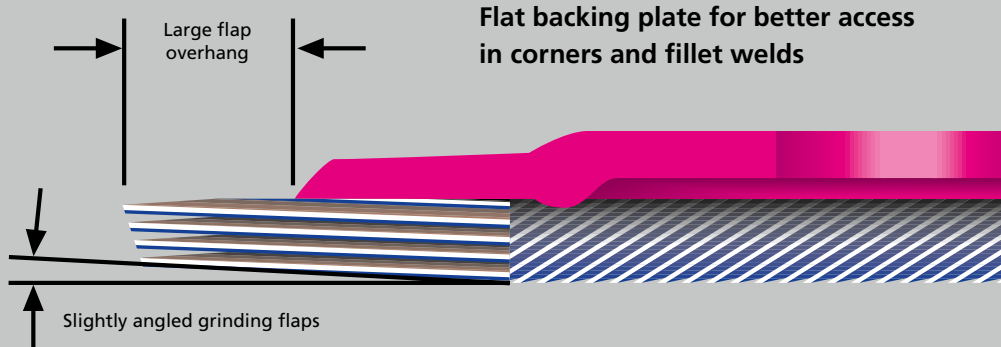
The solution in corners

- **MAGNUM® FILLET WELD** – For the perfect, low cost treatment of welds in corners, edges and fillet welds.
- **MAGNUM® FILLET WELD** – The large flexible overhang of the grinding flaps over the backing plate adjusts perfectly to the shape of a fillet weld.
- **MAGNUM® FILLET WELD** – Soft transitions of the corner weld, clean, groove-free grinding results.
- **MAGNUM® FILLET WELD** – The same grinding performance and service life as the MAGNUM® COOL TOP® 5.
- **MAGNUM® FILLET WELD** – Backing plate made of food-safe elastic ABS-plastic.
- **MAGNUM® FILLET WELD** – Abrasive cloth made of 100% pure zirconium and cooling agents.



Trimming by cutting allows the disc to be used down to the last millimetre.

MAGNUM® FILLET WELD



MAGNUM® FILLET WELD

NEW

At least 50% improved performance due to improved composition!



FLEXIBLE!



Technical data

Dimensions	125 mm x 22 mm
Maximum speed	12,300 rpm
Ideal speed	5,000 to 8,000 rpm
Approval	80 m/sec DIN EN 13743
Grits	40, 60, 80, 120

STEEL/STAINLESS STEEL



MAGNUM® COOL TOP® INOX

A guarantee of top performance

- **MAGNUM® COOL TOP® INOX** – Particularly high performance flap disc for treating stainless steel.
- **MAGNUM® COOL TOP® INOX** – Considerably reduced grinding temperatures due to multiple cooling agent layers in the abrasive cloth.
- **MAGNUM® COOL TOP® INOX** – No discolouration on stainless steel!
- **MAGNUM® COOL TOP® INOX** – Innovative new developed abrasive cloth.
- **MAGNUM® COOL TOP® INOX** – Unbeatable material removal and service life.
- **MAGNUM® COOL TOP® INOX** – Suitable for universal use for grinding flat surfaces and edges, smoothing welds, rust removal, deburring and dressing stainless steel.
- **MAGNUM® COOL TOP® INOX** – Backing plate made of food-safe elastic ABS-plastic suitable for trimming.

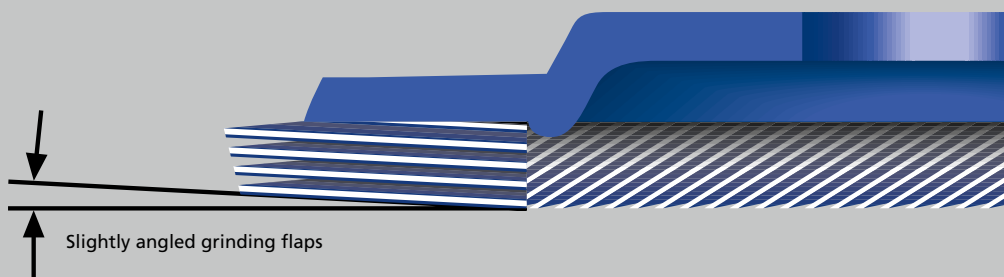


Trimming by cutting allows the disc to be used down to the last millimetre.

MAGNUM® COOL TOP®

INOX

Flat backing plate for better access in corners and fillet welds



MAGNUM®
Cool-Top® INOX

NEW

Improved abrasive cloth



FLEXIBLE!



Technical data

Dimensions	Ø 115, 125, 178 mm
Maximum speed	13,200 rpm (for example Ø 115 mm)
Ideal speed	5,000 to 8,000 rpm
Approval	80 m/sec DIN EN 13743
Grits	40, 60, 80, 120

STEEL/STAINLESS STEEL



MAGNUM® CERAMIC

Special flap disc

TOP material removal on all metals,
particularly on materials which are difficult to grind

- **MAGNUM® CERAMIC** – New developed special disc for titanium, reinforced steel, alloys which are difficult to grind, stainless steel and steel.
- **MAGNUM® CERAMIC** – Ceramic-based abrasive cloth.
- **MAGNUM® CERAMIC** – For the first time allows material removal rates which cannot be achieved using zirconium and aluminium oxide cloths.
- **MAGNUM® CERAMIC** – Reduced grinding temperature on materials which are difficult to grind.
- **MAGNUM® CERAMIC** – Backing plate made of food-safe, elastic ABS-plastic.
- **MAGNUM® CERAMIC** – Easy to trim and vibration-damping.
- **MAGNUM® CERAMIC** – Slightly angled (5°).
- **MAGNUM® CERAMIC** – Suitable for universal use.



Trimming by cutting allows the disc to be used down to the last millimetre.

MAGNUM® CERAMIC

Special flap disc

One cloth for everything!

A new type of ceramic-based abrasive cloth offers very high material removal rates, particularly on alloys which are difficult to grind.

Never before:



TOP on non-ferrous metals

MAGNUM® CERAMIC

NEW



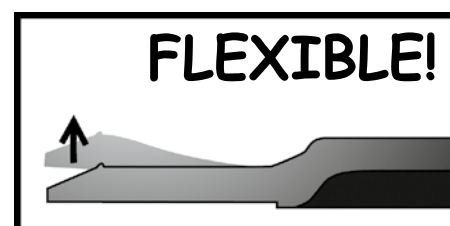
TITANIUM / STAINLESS STEEL / STEEL / BRONZE



TOP on stainless steel



TOP on steel, etc.

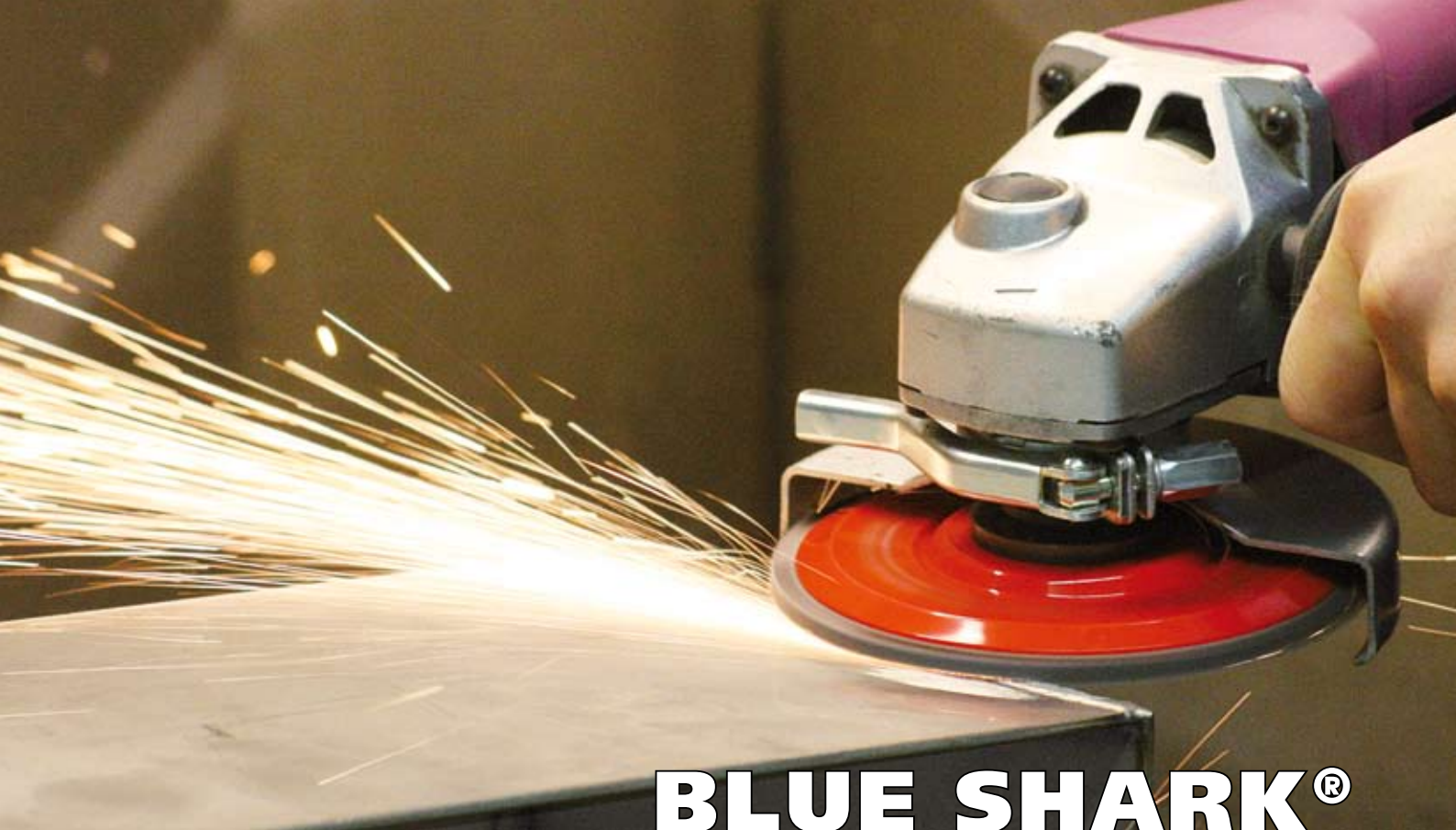


FLEXIBLE!



Technical data

Dimensions	Ø 115, 125, 178 mm
Maximum speed	13,200 rpm (for example Ø 115 mm)
Ideal speed	5,000 – 8,000 rpm
Approval	80 m/sec DIN EN 13743
Grits	40, 60



BLUE SHARK® ELASTIC

KWS zirconium and cotton abrasive cloth
ideal for grinding sheet metal

- **BLUE SHARK® ELASTIC** – Highly elastic, springing flap disc with a flat edge.
- **BLUE SHARK® ELASTIC** – For incredibly smooth and even surfaces and for surface grinding on large surfaces.
- **BLUE SHARK® ELASTIC** – The high elasticity of the backing plate allows the grinding disc to adjust superbly to the workpiece surface. The effective contact surface area is larger ensuring that the heat dissipation is considerably higher.
- **BLUE SHARK® ELASTIC** – Ideal for grinding sheet metal due to its cooler grinding.
- **BLUE SHARK® ELASTIC** – Prevents discolourations on the workpiece.
- **BLUE SHARK® ELASTIC** – Backing plate made of food-safe elastic ABS-plastic - easy to trim.
- **BLUE SHARK® ELASTIC** – Much longer service life compared to conventional flap discs.

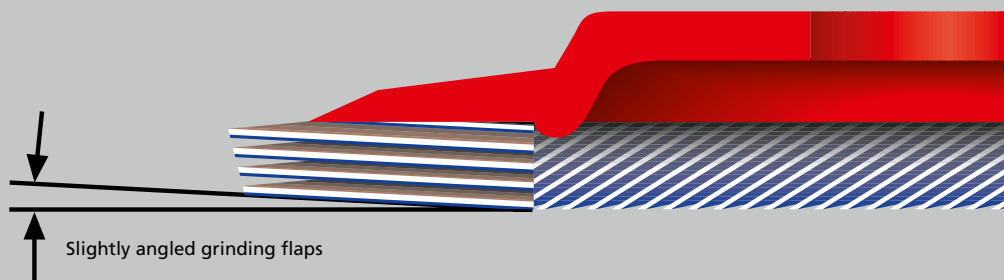


Trimming by cutting allows the disc to be used down to the last millimetre.

BLUE SHARK®

ELASTIC

Flat backing plate ideal in corners.



The first highly elastic flap disc in the world for excellent adjustment to the workpiece.

BLUE SHARK®
elastic flap disc

NEW

At least 50% improved performance due to improved composition!



HIGHLY FLEXIBLE!



Technical data

Dimensions	Ø 115, 125, 178 mm
Maximum speed	13,200 rpm (for example Ø 115 mm)
Ideal speed	5,000 to 8,000 rpm
Approval	80 m/sec DIN EN 13743
Grits	40, 60, 80, 120



STEEL/CAST/STAINLESS STEEL
Ideal for grinding sheet metal



TIGER SHARK® ELASTIC

Ideal for grinding aluminium

- **TIGER SHARK®** – Unbeatable for aluminium grinding.
- **TIGER SHARK®** – No clogging of the grinding disc.
- **TIGER SHARK®** – Visibly better grinding results.
- **TIGER SHARK® + ALU-FIX OIL** – Up to 300% more material removal capacity.
- **TIGER SHARK® + ALU-FIX OIL** – Up to three times longer service life.
- **TIGER SHARK®** – The high elasticity of the backing plate allows the grinding disc to adjust superbly to the workpiece surface. The effective contact surface area is larger ensuring that the heat dissipation is considerably higher.
- **TIGER SHARK®** – Ceramic/Corundum-cotton abrasive cloth.
- **TIGER SHARK®** – Also ideal for steel and non-ferrous metals.
- **TIGER SHARK®** – High grinding capacity with low abrasives costs.
- **TIGER SHARK®** – Ideal for curved surfaces and shaped parts, for example car body, motor workshops, wagon and tool making.
- **TIGER SHARK®** – Backing plate made of food-safe high elastic ABS-plastic – easy to trim.



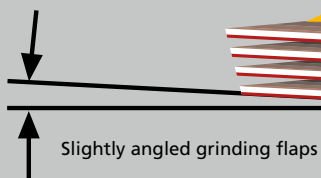
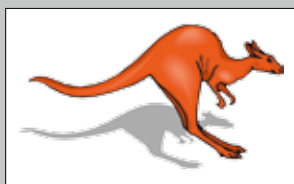
Trimming by cutting allows the disc to be used down to the last millimetre.

Special flap disc for aluminium.
No clogging of the grinding disc
when used with Kangaroo
ALU-FIX OIL.

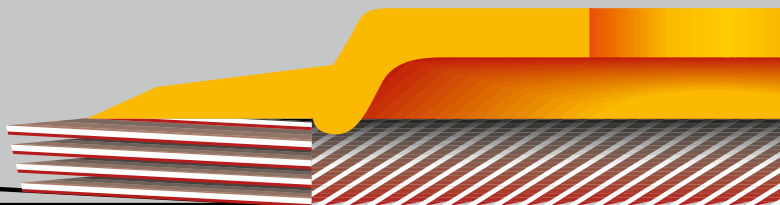


"Kangaroo ALU-FIX OIL"

A new level for grinding aluminium. Simply apply to the workpiece for up to 300% longer service life.



Flat backing plate ideal in corners.



TIGER SHARK®
elastic flap disc



HIGHLY FLEXIBLE!



Technical data

Dimensions	Ø 115, 125, 178 mm
Maximum speed	13,200 rpm (for example Ø 115 mm)
Ideal speed	5,000 to 8,000 rpm
Approval	80 m/sec DIN EN 13743
Grits	40, 60, 80, 120

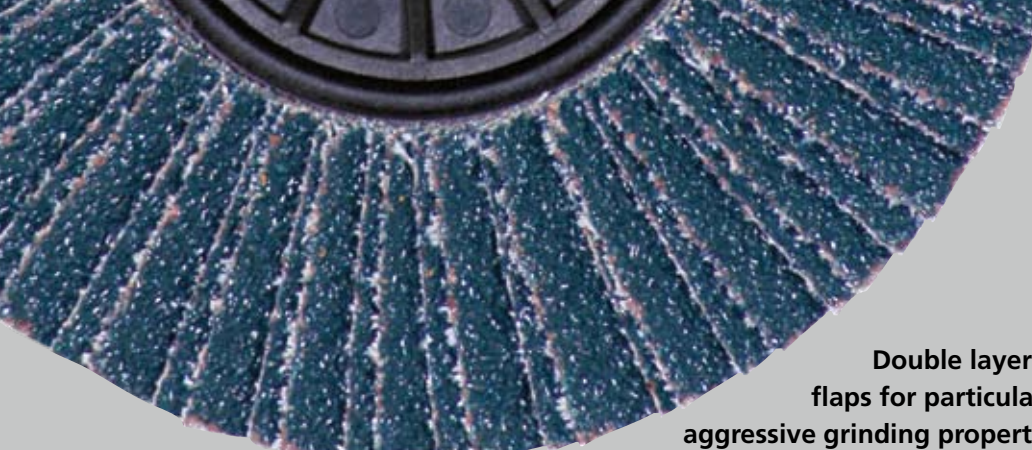
ALUMINIUM



ZIRCOTEX® NYLON ZIRCON

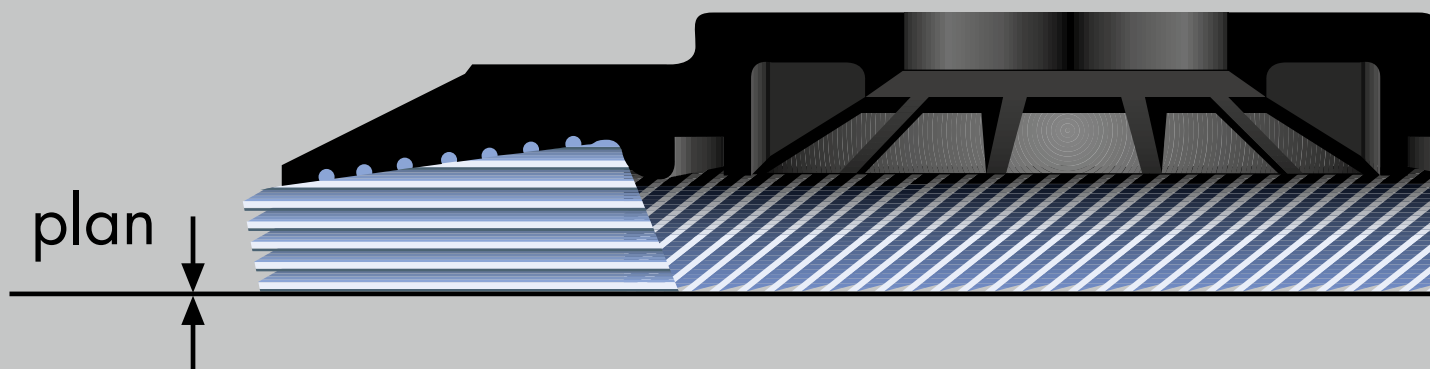
ZIRCOTEX®-Nylon Plan
The legendary flat flap disc

- **ZIRCOTEX® Nylon** – Extremely wide flaps (30 mm with Ø 115 mm) improve heat conduction and increase the cooling effect.
- **ZIRCOTEX® Nylon** – Up to 50 times longer service life compared to fibre discs.
- **ZIRCOTEX® Nylon** – For rough grinding, smoothing, dressing welds and spot welds.
- **ZIRCOTEX® Nylon** – For all metallic materials, such as steel, cast, non-ferrous metals, aluminium, etc.
- **ZIRCOTEX® Nylon** – Abrasive cloth made of pure zirconium with double layer of flaps.
- **ZIRCOTEX® Nylon** – Double layer of flaps for particularly aggressive grinding properties.



ZIRCOTEX® NYLON
ZIRCON

Double layer of
flaps for particularly
aggressive grinding properties



ZIRCOTEX®
Nylon Plan



Flat contact area



STEEL/STAINLESS STEEL



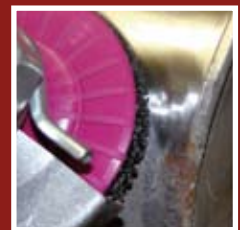
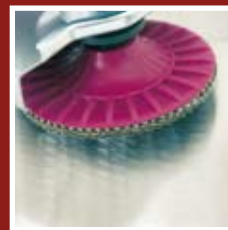
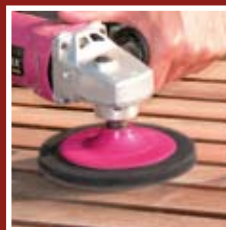
Zirconium cloth

Technical data

Dimensions	Ø 115 mm
Maximum speed	13,200 rpm (for example Ø 115 mm)
Ideal speed	5,000 to 8,000 rpm
Approval	80 m/sec DIN EN 13743
Grits	24, 40, 50, 60, 80, 120



FIX HOOK AND LOOP **SYSTEM**



The patented, elastic FIX HOOK AND LOOK special adhesive backing plate with centring pin guarantees 100% concentricity every time for all FIX HOOK AND LOOP abrasives. The overhang system allows all grinding and polishing abrasives to be used completely – even in corners.

**The clever quick-change system
for angle grinders!**



FIX HOOK AND LOOP SYSTEM

- **FIX HOOK AND LOOP SYSTEM** – With highly elastic backing plate.
- **FIX HOOK AND LOOP SYSTEM** – For previously unheard of surface finish quality from coarse grinding to a mirror finish.
- **FIX HOOK AND LOOP SYSTEM** – An essential grinding system for all sheet metalworkers.
- **FIX HOOK AND LOOP SYSTEM** – 100% concentration of the grinding disc and secure attachment using patented centring pin.
- **FIX HOOK AND LOOP SYSTEM** – The ideal grinding system if you need to change abrasives frequently, for example in the motor trade, stainless steel processors and repair workshops.
- **FIX HOOK AND LOOP SYSTEM** – Disc change as fast as lightning saves a massive amount of working time.
- **FIX HOOK AND LOOP SYSTEM** – Complete abrasives range for coarse and fine grinding, pre-polishing, polishing to a mirror finish and for cleaning.
- **FIX HOOK AND LOOP SYSTEM** – Requires a speed-controlled angle grinder such as the VARILEX® WSF 1600 Professional.

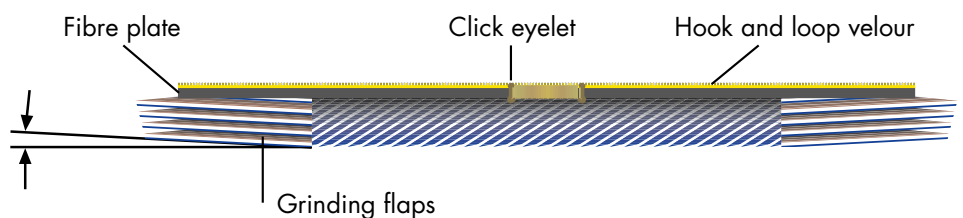
CLICK!

FIX HOOK AND LOOP SYSTEM

Did you know...

... that with our elastic FIX HOOK AND LOOP flap discs you can achieve the best grinding results of all flap discs on the market (as a result of its high capacity to adjust to the workpiece).

Test it. You will not believe your eyes!



The patented "overhang system" and the eco-friendly fibre plate (made of cellulose) ensure that the entire grinding flap width can be used to the full. When the overhang of the grinding disc has worn down to the edge of the backing pad, simply use the next smaller backing pad.



Abrasives for the FIX HOOK AND LOOP SYSTEM



VARILEX® starter set in case

Complete with VARILEX® angle grinder, FIX HOOK AND LOOP backing pad, FIX flap discs, FIX Clean discs, FIX Fleece Top discs, FIX SuperPolish discs, FIX zirconium discs, mini polishing paste and lime in an application. (See price list for details of content!)



FIX HOOK AND LOOP special adhesive backing pad

Special pad made of elastic PUR plastic with click system and centring pin for 100% concentricity, reinforcement ribs, M14, M10 of 5/8" thread

Application: For FIX HOOK AND LOOP abrasives: Flap discs, zirconium discs, Clean discs, Fleece Top, fleece discs, felt discs, SuperPolish

Dimensions: Ø 98 mm, 113 mm, 123 mm, 135 mm, 149 mm, 168 mm; with M14, M10 or 5/8" thread



FIX HOOK AND LOOP special adhesive backing pad with PUR damping layer

Application: Made of elastic PUR with a 6 mm damping layer specially for using TZ-Pyramid discs, SuperPolish discs and felt discs. The centring pin is visible through grinding discs to ensure that the disc can be precisely centred.

Dimensions: Ø 113 mm and 149 mm with M14, M10 or 5/8" thread

■ Abrasives for adhesive backing pad:



FIX HOOK AND LOOP flap disc

With pure zirconium abrasives. High material removal capacity, extremely long service life, uniform clean finish without material discolouration and smearing. Highly elastic, adjusted to any workpiece shape.

Application: Coarse grinding, dressing castings and welds, removing scratches.

Dimensions: Ø 100 mm, 115 mm, 125 mm, 150 mm
Grit: 40, 60, 80, 120



FIX HOOK AND LOOP zirconium disc

Offering outstanding grinding capacity.

Application: Coarse and final grinding, levelling welds, removing scratches, ideal for motor bodies and motor workshops.

Dimensions: Ø 115 mm, 150 mm
Grit: 40, 60, 80, 120



FIX HOOK AND LOOP FLEECE TOP

Foamed, compressed fleece, approx. 15 mm thick, 8 times the service life of fleece discs (does not smear).

Application: Final grinding and pre-polishing in continuous use.

Dimensions: Ø 115 mm
Grit: 80, 180, 280, 400, 600, 900



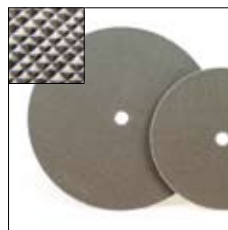
FIX HOOK AND LOOP Clean

Application: Cleaning and pore-deep removal of coatings, rust, scale and dirt on all materials. Same effect as sand-blasting; cleans without removal material.

Ideal for motor bodies and the motor industry and for renovation work for painters and builders.

Dimensions: Ø 115 mm, 150 mm
Grit: Standard hardness (K 36)

■ Abrasives for adhesive backing plate with PUR damping layer:



FIX HOOK AND LOOP TZ-Pyramid disc

Application: New type of abrasive cloth with pyramid-shaped grit structure, high material removal with very fine finish. Saves several work cycles. Additional absorption layer reduces the grinding temperature. Pre-polishing for later polishing to a mirror finish, removing scratches and spot welds.

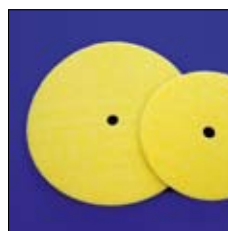
Dimensions: Ø 115 mm, 150 mm
Grit: A100, A65, A45, A30, A16, A06



FIX HOOK AND LOOP SC fleece disc

Application: For final grinding and pre-polishing.

Dimensions: Ø 100 mm, 115 mm, 125 mm, 150 mm, 178 mm
Grit: Coarse, medium, fine, super-fine



FIX HOOK AND LOOP SuperPolish disc

Application: 5 mm thick new type of needled special fibre, used with polishing pastes and cream for a brilliant mirror finish on stainless steel and non-ferrous metals without smearing and shadows. Very absorbent and does not smear. Ideal for pre-polishing aluminium and soft metals for a perfect mirror finish. Use a separate SuperPolish disc for each paste grit and cream.

Dimensions: Ø 115 mm, 150 mm



FIX HOOK AND LOOP fleece disc

Application: Polishing stainless steel and non-ferrous metals to a mirror finish. Use in conjunction with polishing pastes and cream.

Dimensions: Ø 100 mm, 115 mm, 125 mm, 150 mm, 178 mm



FIX HOOK AND LOOP pure fleece disc (for polishing aluminium)

Application: Soft nylon fleece material for pre-polishing aluminium and soft materials for a perfect mirror finish.

Dimensions: Ø 115 mm, 150 mm
Grit: Super-fine



See page 22 for details of polishing pastes and creams.

TZ-Pyramid grit comparison table

TZ-Pyramid grit	A100	A65	A45	A30	A16	A06
Result corresponds to grit	220	320	400	600	1.200	2.000
Material removal corresponds approx. to grit	36	40	50	60	80	120

Fleece comparison table

	Coarse (brown)	Medium (red)	Fine (blue)	Super-fine (grey)
Corresponds approx. to grit	80	180	280	400



MAGNUM® SPECIAL DISCS

Cleaning, final grinding, rust removal,
deburring and pre-polishing





MAGNUM® CLEAN

Cleaning disc with sand-blasting effect

- **MAGNUM® CLEAN** – Pore-deep cleaning for metals and other materials.
- **MAGNUM® CLEAN** – Cleans without removing materials and without damaging the base material.
- **MAGNUM® CLEAN** – Does not smear even when heavily soiled.
- **MAGNUM® CLEAN** – Contains no metals, ensuring there is no risk of corrosion.
- **MAGNUM® CLEAN** – The ideal cleaning discs for the pore-deep removal of coatings, lacquers, rust, scale and oil residue.
- **MAGNUM® CLEAN** – Particularly suitable for removing lacquer and paint coatings on wood, stone and metal (for example window frames, door leafs and frames, furniture, house facades, railings, fences, equipment, machines or boat hulls and propellers and for removing graffiti).
- **MAGNUM® CLEAN** – Ideal for motor bodies (does not grind through thin sheet metal) in the motor industry (underseal), for renovating and for painting and building work.



CLEAN MCD

CLEAN cleaning disc with 10 mm borehole which can be securely attached to the chuck of a drill using the clamping spindle. Grind with the circumference and front of the disc.

Technical data

Dimensions	Ø 115 mm, 150 mm, Material thickness 15 mm Internal borehole 10 mm
Ideal speed	2,000 to 4,500 rpm



Material thickness



30 mm

15 mm

MAGNUM® CLEAN

MAGNUM® Double-CLEAN

NEW

Now also with 30 mm material thickness!



Rust removal



Woodworking



Dressing brazed areas, such as gutters



Removing coatings

Technical data

Dimensions	Ø 125 mm, Material thickness 15 mm (CLEAN) or 30 mm (Double-CLEAN) Internal borehole 22,2 mm
Maximum speed	5,000 rpm
Ideal speed	2,000 to 4,500 rpm



MAGNUM® TOPMIX

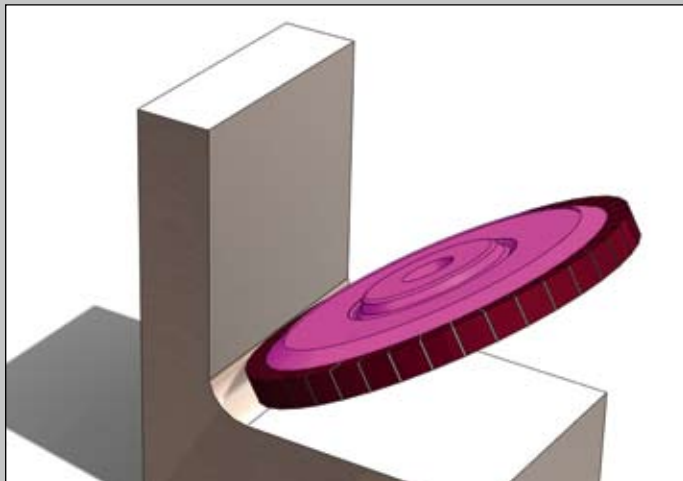
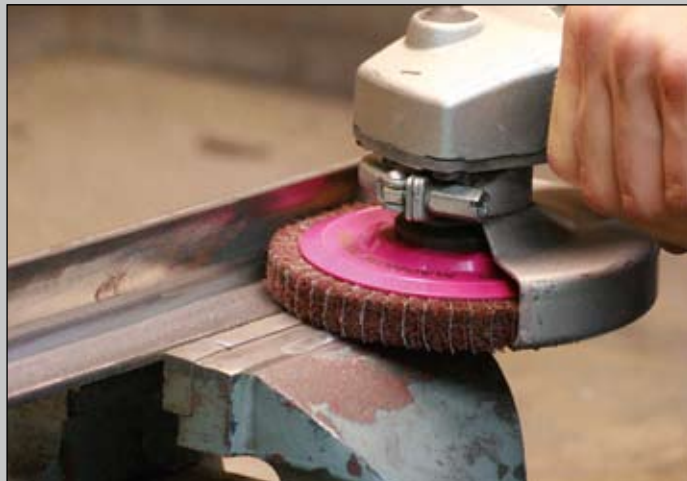
Interleaf fleece disc for final grinding

- **MAGNUM® TOPMIX** – Much more aggressive than conventional fleece discs.
- **MAGNUM® TOPMIX** – A coordinated combination of grinding flaps alternating with compressed fleece provides a much higher grinding capacity, longer service life whilst still producing a fine finish.
- **MAGNUM® TOPMIX** – For initial and final grinding, for removing spot welds and deep scratches on stainless steel, steel and non-ferrous metals.
- **MAGNUM® TOPMIX** – Ideal for refinishing corners, for example after grinding with TRIMTEX®.
- **MAGNUM® TOPMIX** – Ideal for fine deburring of stamped perforated sheets.

■ High material removal with a very fine finish

MAGNUM® TOPMIX

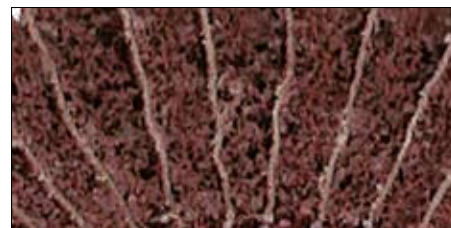
Effortlessly removes unevenness, chatter marks, scratches, etc. whilst producing a very fine finish, even in corners



MAGNUM® **TOPMIX**



Highly compressed flaps ensure a very long service life.



Technical data

Dimensions	Ø 125 mm, Internal borehole 22,2 mm
Maximum speed	5,200 rpm
Ideal speed	2,000 to 5,000 rpm
Grit	80



MAGNUM® FLEECE TOP

The versatile fleece disc made of foamed, compressed grinding fleece for fine finishes

- **MAGNUM® FLEECE TOP** – With up to 8 times longer service life than fleece and SC discs.
- **MAGNUM® FLEECE TOP** – Versatile range of applications for metal-working:
 - For grinding, final grinding and pre-polishing.
 - For removing scale, oxide, scratches, rust, burr and coatings.
- **MAGNUM® FLEECE TOP** – Uniform, clean finish.
- **MAGNUM® FLEECE TOP** – Replaces wire brushes, abrasive paper and abrasive rubber.
- **MAGNUM® FLEECE TOP** – Also ideal for cleaning and smoothing wood and plastic.
- **MAGNUM® FLEECE TOP** – The special fleece mixture prevents glazing and smearing – with a self-cleaning effect.
- **MAGNUM® FLEECE TOP** – Fleece ring approx. 15 mm thick. A quantity of highly compressed fleece which guarantees a long service life.



Average peak-too-valley heights for MAGNUM® FLEECE TOP for stainless steel:

Grit	K 80	K 180	K 280	K 400	K 600	K900
Rz in μ	6,10 μ	4,16 μ	2,78 μ	2,74 μ	2,26 μ	1,66 μ

Average peak-too-valley heights for MAGNUM® FLEECE TOP for aluminium:

Grit	K 80	K 180	K 280	K 400	K 600	K900
Rz in μ	9,26 μ	5,63 μ	3,85 μ	3,78 μ	2,68 μ	2,58 μ

Rz = Average peak-to-valley height

Special applications:



Technical data

Dimensions	Ø 115 mm, fleece thickness approx. 15 mm, internal borehole 22,2 mm
Maximum speed	8,000 rpm
Ideal speed	2,000 to 5,000 rpm
Grits	80, 180, 280, 400, 600, 900
Ideal for speed-controlled angle grinders.	

MAGNUM® FLEECE TOP





POLY-MAGIC-WHEEL

A revolution for polishing to a mirror finish in corners

- **POLY-MAGIC-WHEEL** – For final grinding and polishing to a mirror finish in corners.
- **POLY-MAGIC-WHEEL** – Saves a massive amount of working time and replaces expensive manual labour, particularly for railing production and the corner welds which are often used for these products.
- **POLY-MAGIC-WHEEL** – Produces an impeccable mirror finish in just two stages.
- **POLY-MAGIC-WHEEL** – Highly compressed fleece disc produced in an optimised production process using highly compressed individual flaps reinforced by foam impregnation.
- **POLY-MAGIC-WHEEL** – With considerably more abrasive than the familiar, wound „unitised wheels and discs“.
- **POLY-MAGIC-WHEEL** – May only be used on the front.
- **POLY-MAGIC-WHEEL** – Can be used on any speed-controlled angle grinder (for example VARILEX® WSF 1600).

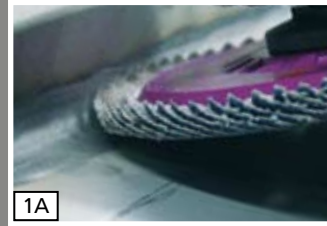
TIP

Polishing corner welds with POLY-MAGIC-WHEEL

Polish without any additives such as polishing pastes or creams.

POLY-MAGIC-WHEEL discs are extremely abrasive, they save a massive amount of time and produce sensational results.

- 1. Level** coarse corner welds with **MAGNUM® fillet weld (1A)** or **TRIMTEX®(1B)**.
- 2. Pre-grind and level** finer welds with the red **POLY-MAGIC-WHEEL, grit A (80)**.
- 3. Polishing** to an impeccable mirror finish using the grey **POLY-MAGIC-WHEEL, grit B (900)**.



1A



1B



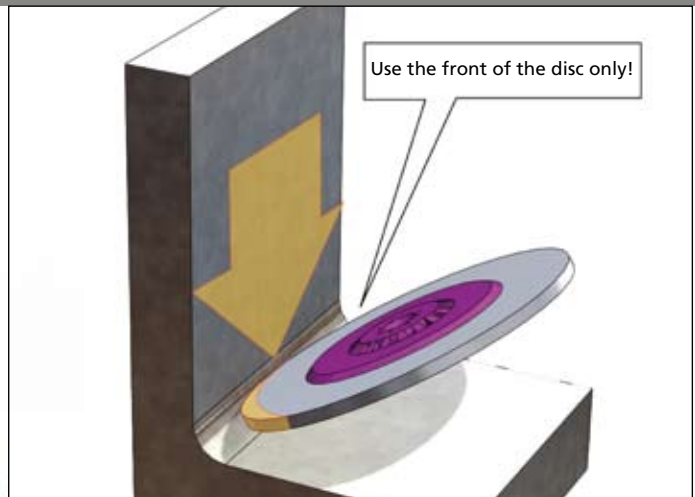
2



3

DRY POLISHING

No polishing pastes, etc. are required!



→ 45

Ideal speed 3,000 to 4,000 rpm, for example with the VARILEX® WSF 1600 angle grinder, see page 45!

Technical data

Dimensions	Ø 165 mm, material thickness approx. 6 mm, internal borehole 22,5 mm
Ideal speed	3,000 to 4,000 rpm
Grits	Grit A (K 80) for pregrinding and levelling preground welds. Grit B (K 900) for polishing to an impeccable mirror finish.



STEEL/STAINLESS STEEL

GRINDING AND CUTTING DISCS

In our role as specialists for professional, hand-held grinders and abrasives we have rounded off our product range with grinding and cutting discs.

The **MAGNUM® Flexo** grinding disc is a universal discs which is suitable for use in all areas of metalworking (for example on stainless steel) whose features include being very aggressive, offering a long service life and maximum material removal.

Cutting discs are available in two thicknesses:

MAGNUM® Cut: 2.5 mm thick, a universal disc for all cutting work on steel, stainless steel and non-ferrous metals.

MAGNUM® Finecut: 1.0 mm thick, a special cutting disc which is particularly suitable for stainless steel, steel and also non-ferrous metals and also for cutting thin-walled sections and pipes.



**1A quality
Made in Germany**



**MAGNUM® Finecut 60 AS
cutting disc**

Hardness: Hard
Quality class: Top VA + NF metal

Diameter x Width x Borehole in mm	Form	Max. working speed	Max. rotary speed
115 x 1,0 x 22	— —	80,0 m/s	13.300 rpm
125 x 1,0 x 22	— —	80,0 m/s	12.200 rpm
180 x 1,6 x 22	— —	80,0 m/s	8.500 rpm



**MAGNUM® Cut 24 AE
cutting disc**

Hardness: Medium
Quality class: Top universal metal

Diameter x Width x Borehole in mm	Form	Max. working speed	Max. rotary speed
115 x 2,5 x 22	— —	80,0 m/s	13.300 rpm
125 x 2,5 x 22	— —	80,0 m/s	12.200 rpm



**MAGNUM® Flexo 24 AE
grinding disc**

Hardness: Medium
Quality class: Top universal metal

Diameter x Width x Borehole in mm	Form	Max. working speed	Max. rotary speed
115 x 6 x 22	— —	80,0 m/s	13.300 rpm
125 x 6 x 22	— —	80,0 m/s	12.200 rpm
180 x 8 x 22	— —	80,0 m/s	8.500 rpm

GRINDING AND CUTTING DISCS

TIP

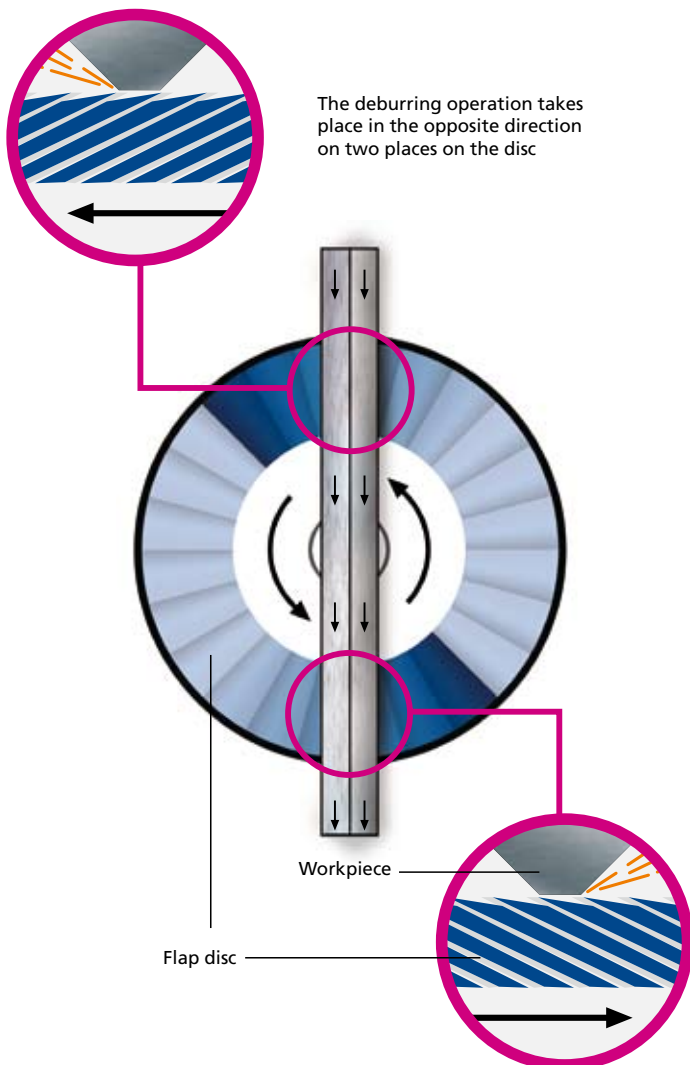
Heavy grinding and cutting work can be completed more conveniently and easily with the compact, handy VARILEX® WSF 1600 angle grinder and a 180 disc than with a conventional heavy angle grinder and 230 discs. The grinding performance of the VARILEX® WSF 1600 is almost identical but it requires much less effort. The smaller gearbox head means that the cutting depth of the 180 disc on the VARILEX® is almost identical to that of a 230 disc on a large two-handed angle grinder.

The 1 mm thick Finecut discs are ideal for cutting stainless steel sections and pipes.



ROLEI

DEBURRING EQUIPMENT

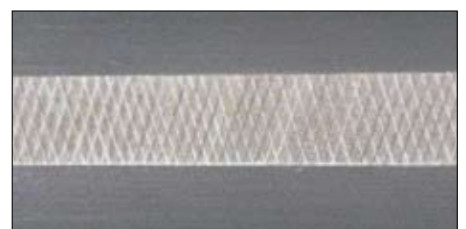


Grinding instead of milling saves a massive amount of working time and tool costs. **Perfect cross-grinding guarantees completely burr-free edges** without chatter marks in a single operation. **This elastic deburring tool can be used on all metals including stainless steel.**

ROLEI deburring and faceting machines use flat flap discs whilst the BE 5 sheet metal deburring machine uses flap mop wheels. The abrasives are "**self-sharpening**" and provide an extremely long service life.

The machines are easy and safe to operator whilst the abrasives can be changed quickly and easily.

The abrasive costs are very low!





**Deburring and bevelling with perfect cross-grinding,
producing no counter burr**



Bavarian State Prize: Gold Medal

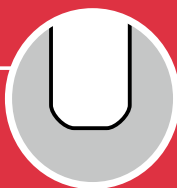
**Bevelling and deburring
by grinding instead of milling.
Unbeatable low cost and results!**



ROLEI BE 5

Sheet metal deburring machine

Sheet with burr
after cutting



Deburring on both sides of the edges does not change the sheet dimensions!

Deburring fine sheet metal of any kind on both sides from 0 to 5 mm thick in **one operation**. No final treatment required, easy adjustment of the mop wheels when worn using hand wheel.

1 set of mop wheels will deburr approx. 2,000 m of stainless steel sheet.

- Easy to use, even by untrained personnel.
- Two speeds.
- Deburr material quickly and at low cost!

Optional accessories:

- Extraction flange for industrial extractor
Internal Ø 35 mm
- Machine stand
- Spare mop wheels (grit 40, 60, 80, 120)



Can also be used on its side with roller tables for large, thin sheets.

RECOMMENDATION

Stainless steel/Steel	K60
Alum./Copper/Brass	K80/K120
Rigid plastic K120



Spare mop wheels for BE 5 sheet metal deburring machine.

1 set of mop wheels will deburr approx. 2000 m of stainless steel sheet.
Grit 40, 60, 80, 120



Machine stand

Sturdy steel machine stand with black powder coating.



Teflon strips - self-adhesive -

For prism rail to prevent scratching the workpiece!

Width 20 mm
Length 700 mm

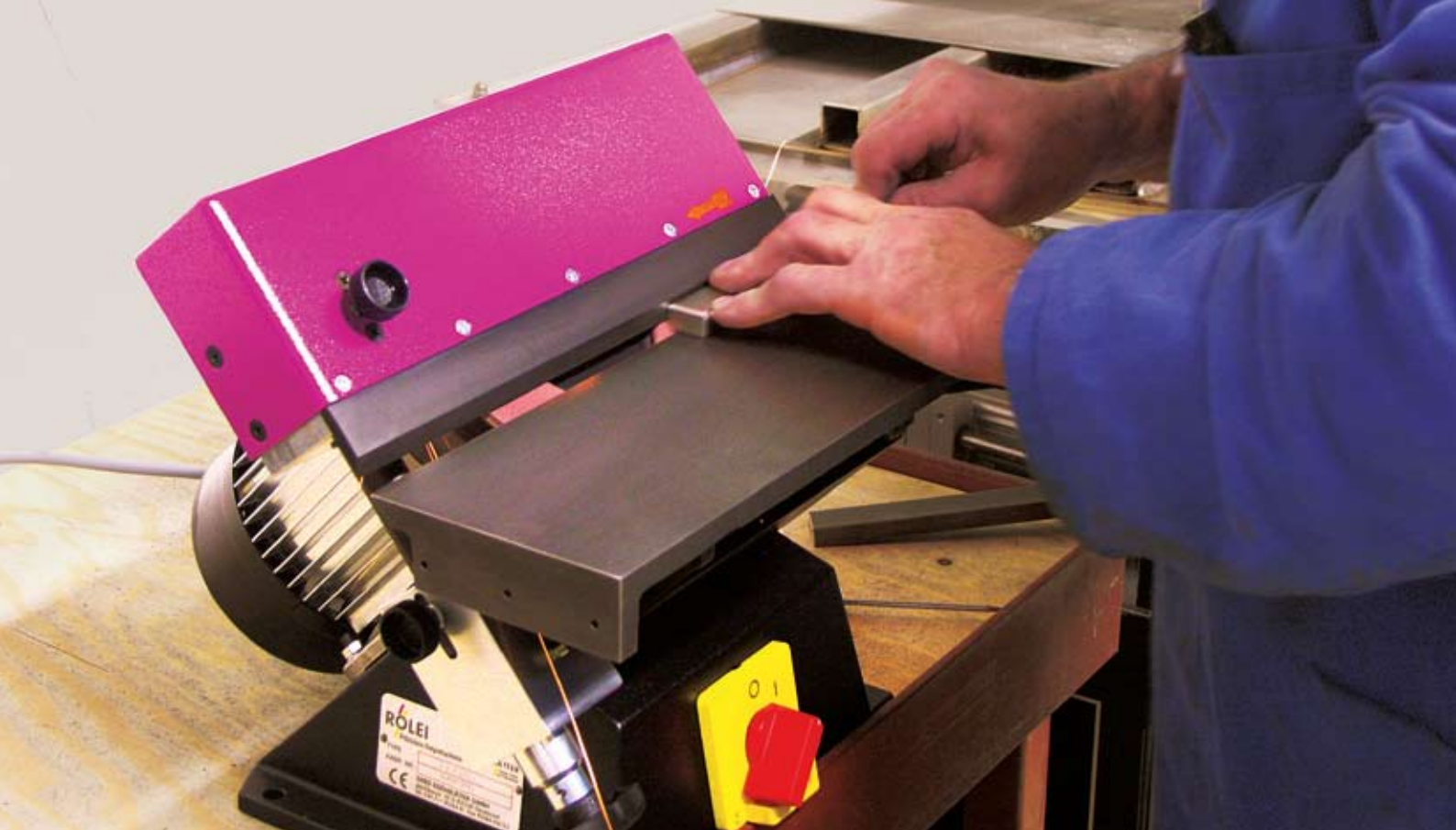


Supplied as standard with disc with grit 60.

Depending on the required intensity and materials, a different grit can also be selected!

Technical data

Three-phase current motor	380 V ~ 50 Hz, 0.2 KW, Two speeds: Setting 1: Fine deburring 600 rpm Setting 2: Standard deburring 1,200 rpm
Dimensions	700 x 325 x 200 mm
Weight	Approx. 29 kg
Options	Machine stand, extraction flange for dust extractor connection



ROLEI EF 165

FOR FACETS AT AN ANGLE OF 45°



Extraction flange for industrial extractor

Bavarian State Prize

Eisenblätter was awarded the Bavarian State Prize for its deburring machine at the Craft Fair in Munich.



Beveling and deburring machine with fixed facet angle of 45° and infinitely adjustable facet width from 0 to 10 mm for all metals from stainless steel to aluminium. Infinitely precise adjustment of the facet width using a hand wheel.

- Very simply to use.
- Very low cost spare abrasives with a massive service life (only disc will often last for months).
- Faceting possible for workpiece thicknesses from 2.5 mm.

Optional accessories:

- Three-phase current motor (230 V version)
- Extended support table 700 mm
- Machine stand
- Extraction flange for industrial extractor
Internal Ø 35 mm
- Spare grinding discs (grit 50, 60, 80, 120)



RECOMMENDATION

Stainless steel/Steel K60/K80
Alum./Copper/Brass. K80/K120
Rigid plastic K120



Extended support table

Made of sliding grey cast material.
700 mm (longer to order)



Machine stand

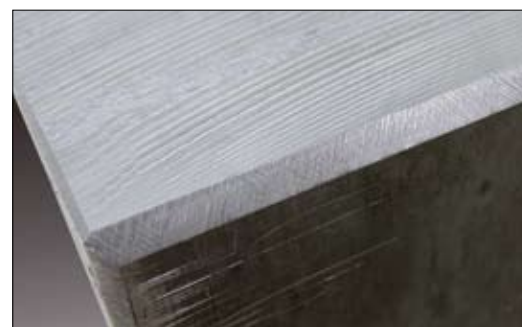
Sturdy steel machine stand with black powder coating.



Spare flap discs

The flat disc with special hard compression for deburring machines. Self-sharpening and extremely long service life!

Grit 50, 60, 80, 120



Workpiece faceted at an angle of 45° without opposite burr



Supplied as standard with disc with grit 60.

Depending on the required facet width and materials, a different grit can also be selected!

Technical data

Three-phase current motor	380 V ~ 50 Hz, 0,55 kW, 2,800 rpm
Support table	120 x 320 mm
Dimensions	360 x 320 x 300 mm
Weight	Approx. 18 kg
Options	Three-phase current motor 230 V ~ 50 Hz 700 mm support table, machine stand, extraction flange for dust extractor connection



ROLEI PEF 500

FOR FACETS AT ANGLES OF 30°–45°–60°

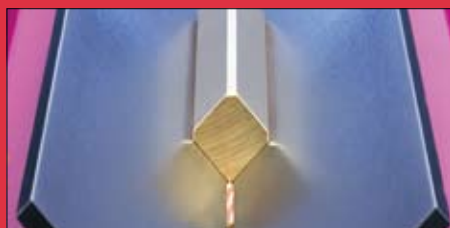
Very robust precision deburring and bevelling machine for all metals from stainless steel to aluminium.

Adjustable facet angles of 30° – 45° – 60°
and infinitely adjustable facet width from 0 to 10 mm
(precise setting using knurled division).

- Very simply to use.
- Bevelling possible for workpiece thicknesses from 2.5 mm.

Optional accessories:

- Three-phase current motor (230 V version)
- Extraction flange for industrial extractor
Internal Ø 35 mm
- Spare grinding discs (grit 50, 60, 80, 120)



The parts are faceted by perfect cross-grinding and completely without opposite burr.



The facet width can be adjusted precisely using a hand wheel.



The disc wear is adjusted using a hand wheel with a threaded spindle. The facet angle can be adjusted using a motorised system.

RECOMMENDATION

Stainless steel/Steel K60/K80
Alum./Copper/Brass. K80/K120
Rigid plastic K120



Machine stand

Sturdy steel machine stand with black powder coating.



Spare flap discs

The flat disc with special hard compression for deburring machines. Self-sharpening and extremely long service life!

Grit 50, 60, 80, 120

The easily interchangeable, flat flap disc produces a chamfer which creates zero opposite burr.



Infinitely adjustable facet angle from 30° to 60°

Supplied as standard with disc with grit 60.

Depending on the required facet width and materials, a different grit can also be selected!

Technical data

Three-phase current motor	380 V ~ 50 Hz, 0,55 kW, 2,800 rpm
Dimensions	500 x 350 x 350 mm
Weight	Approx. 40 kg
Options	Three-phase current motor, machine stand, extraction flange for dust extractor connection



ROLEI EF 115

Manual deburring and bevelling machine

The handy deburring machine for awkward, heavy parts such as large machine tables, frame constructions or large sheet metal panels. Simple to handle, good edge control. The EF 115 is also ideal for weld chamfering. First facet angle 45°, infinitely adjustable fact width from 0 to 10 mm.



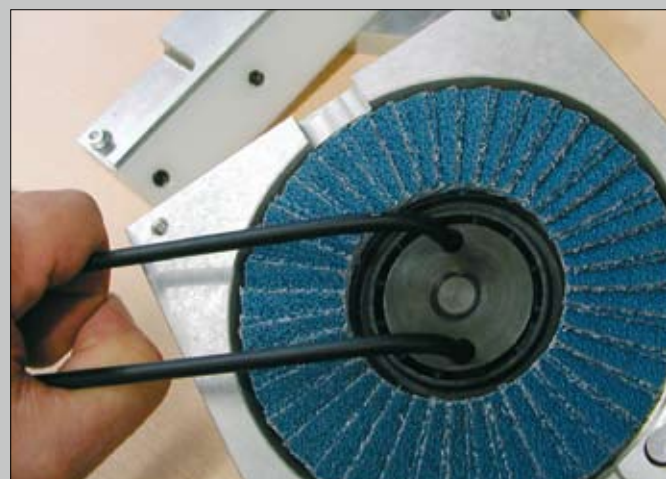
The handy ROLEI EF 115 can be used to deburr and facet large heavy parts. The exact edge guide guarantees chamfers of 45° with no opposite burr.



Spare flap discs (flat)

Universal disc with double layer of flaps
The double flaps ensure particularly aggressive grinding properties with a very long service life of the disc.

Grit 50, 60, 80, 120



Simple
disc changing



1600 watts

For
professional
use!

Technical data	
Three-phase current motor	230 V ~ 50 - 60 Hz, 1,600 watts
Speed	Infinitely adjustable from 2,000 to 7,600 rpm
Weight	4 kg
Options	Three-phase current motor 110 V ~ 60 Hz

APPLICATION TIP

The grinding and polishing recommendations are exclusively tailored to genuine Eisenblätter abrasives and enable you to achieve the results shown here!

Remove scratches and weld smooth weld edges on industrial finish products (satin, matt or brush finishes)

Sheet metal with a so-called industrial finish is predominantly used in the production of stainless steel tanks and stainless steel furniture. Welding, bending, drilling and other processes are used in the production process, however, which means that scratches are almost inevitable. Eisenblätter offers a whole range of abrasives for the POLY-PTX® longitudinal grinding system for smoothing welds and removing scratches.



1. Coarse pregrinding

(If very thick welds have to be removed, we recommend that they are prepared with flap discs)
POLY-PTX® expansion roller with POLY-PTX® zirconium sleeve grit 60 or 80.



2. Intermediate grinding

POLY-PTX® expansion roller with POLY-PTX® SC fleece sleeve grit medium for smoothing the rough surface.



3. Final grinding / Industrial finish

Finish with POLY-PTX® fleece wheel grit 80, oscillating operation ... and that's it!

The required surface finish can then be adjusted by using finer fleece wheel grits such as 180, 280, etc.

Note: By varying the speed it is also possible to make fine adjustments to preground sheets.

It is often cheaper and better results can be achieved if non-ground raw sheets are used and the industrial finish is not applied using PTX® until after the bending, welding (for example for control enclosures, doors, boxes, etc.). This ensures that identical finishes are produced over the entire surface areas so as to enhance the overall quality.

→ 13+14



New expansion roller for the POLY-PTX® longitudinal grinding system

New arranged expansion segments now also allow simplified sleeve changing whilst also improving workpiece adjustment, vibration damping and concentricity.



Polishing stainless steel and non-ferrous metals to a mirror finish

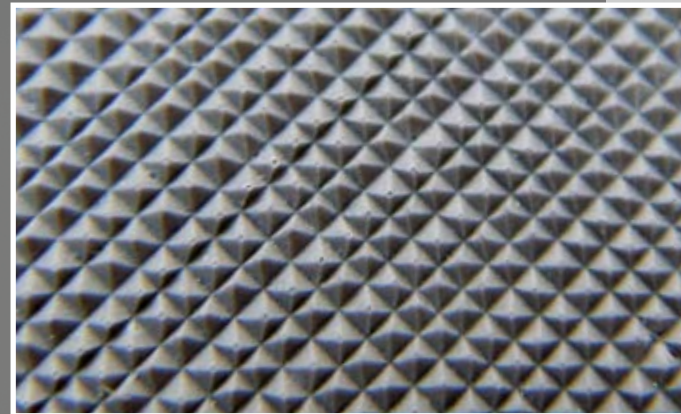
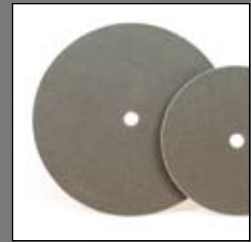
Two new grinding- and polishing cloths from Eisenblätter revolutionised the polishing and especially the mirror-finishing of stainless steel and non-ferrous metals. The use of Sisal which is usual in these cases is not needed.

On the one hand there is the **TZ-Pyramid for pregrinding and pre-polishing**, a grinding fabric with a pyramid-shaped grit structure. On the other there is **SuperPolish**, a special needle fleece which produces a brilliant, shadow-free mirror finish when used in combination with blue and white polishing pasts and the pink cream.

TZ-Pyramid allows high material removal whilst also producing a very fine finish. There is no need to slowly increase the fineness of the grit during the pregrinding phase. This reduces the number of operations and therefore means a massive reduction in working time. The details relating to the grit differ from conventional abrasive cloths. The table shows the comparable values.

TZ-Pyramid grit comparison table						
TZ-Pyramid grit	A100	A65	A45	A30	A16	A06
Result corresponds to grit	220	320	400	600	1.200	2.000
Material removal corresponds approx. to grit	36	40	50	60	80	120

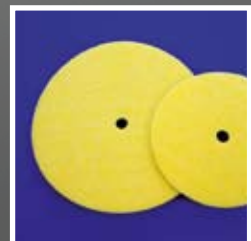
TZ-Pyramid is available in a range of versions:



SuperPolish is very absorbent and will not smear. It is ideal for achieving a perfect mirror finish.

This revolutionary new polishing material allows you to produce an impeccable mirror finish **in just three steps**. An absolutely spotless workplace is very important with polishing to a **mirror finish** with SuperPolish. Never place **SuperPolish abrasives** with the abrasive side down. Even the slightest impurities like grinding dust or coarse grinding paste can spoil a perfect finish.

SuperPolish is available in a range of versions:

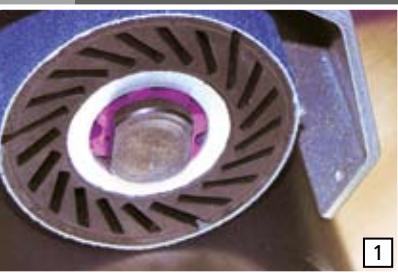


APPLICATION TIP

The grinding and polishing recommendations are exclusively tailored to genuine Eisenblätter abrasives and enable you to achieve the results shown here!

Polishing stainless steel and non-ferrous metal surfaces with the POLY-PTX® longitudinal grinding system

Large surface areas, such as facade parts, can be polished to a mirror finish quick and economically using the **POLY-PTX® longitudinal grinding system**. The new grinding and polishing cloths, **TZ-Pyramid** and **SuperPolish**, reduce the work required to three steps.



1. Coarse pregrinding

Remove roller skin, deep scratches and coarse welds with an **expansion roller** and **grinding belt sleeve** of **TZ-Pyramid sleeve**, grit A100, A65 or A45 and then finish with A30.



2. Intermediate grinding

With **TZ-Pyramid sleeve**, grit A16. Only refinish "poor" material qualities with grit A06.



3. Polish

Pre-polish with the expansion roller with **SuperPolish sleeve** and **white polishing paste**, then complete the main polish with the **SuperPolish sleeve** and **blue polishing paste**. Polish to a mirror finish with the **SuperPolish sleeve** and **pink polishing cream**.



Tips

Apply very little pressure when grinding with the **TZ-Pyramid sleeve**; the weight of the grinder will generally be sufficient.

It is essential that you also grind perpendicular and diagonal to the working direction so that the surface is uniformly "removed" and the correct "polishing level" is produced.

Always use a separate **SuperPolish sleeve** for each polishing paste and cream so that the different past grit sizes do not become mixed.

Pastes and creams must always be applied to the polishing sleeve.

Also work perpendicular and diagonal to the working direction for the pre-polish and main polish; only the mirror finish is produced in the main working direction only.

After each polishing phase remove the past residues with **POLY LIME** (simply scatter it on the workpiece surface and then wipe it off with a **micro-fibre cloth**).

If minimal smearing occurs due to the nature of the material, they can be removed using soft top finish rings and pink high gloss cream. We recommend **medium top finish rings** for stainless steel for pre-polishing, **soft top finish rings** for the final polish and **cotton rings** for non-ferrous metals.

→ 15+22



Grinding and polishing open and close pipe constructions

(for example **POLY-PTX®**, **VARILEX® WSF 900 DUO**, **PIPE-FIX**, **PIPE-MAX**)

→ 22

See page 22 for details of polishing pastes and creams.

Pre-grinding

Use high quality corundum grinding belts for pregrinding pipe constructions. Choose the grit size (40/60/80) depending on the level of aggression you required, for example to remove scratches, level welds, etc.

Intermediate and final grinding

Use the **fleece belts** for **intermediate and final grinding** and for a satin finish.

The new **TZ-Pyramid belts**, grit size A16 or A06 for the final grinding before the polish are ideal for the **intermediate grinding** and **pre-polishing** steps before polishing to a **mirror finish**.

Polishing to a mirror finish

Polish and **polish to a mirror finish** using **merino felt belts** or **SuperPolish belts** in combination with **white polishing paste** for the **pre-polish** and **blue polishing paste** for the main polish. And impeccable **mirror finish** can then be produced using the **pink high gloss polishing cream**.

Tips

The **fleece and merino felt belts** feature the patented, practical **buttonhole fastening**. For close pipe constructions, the belts can simply be placed around the pipe and fastened.

For working on close pipe constructions, **closed grinding and TZ-Pyramid belts** must be cut open, placed around the pipe and glued using the **POLY-PTX® special adhesive tape** so that overlap over their entire length (approx. 370°).

Use a **separate polishing belt for each paste grit size** when polishing with pastes so that the paste grits do not become mixed.

Paste residues can be removed using a new polishing belt or by scattering **POLY lime** on them and wiping it off using a **micro-fibre cloth**.

With PIPE-FIX or PIPE-MAX

Thicker pipes in particular can be machined rationally and economically using **PIPE-FIX** and **PIPE-MAX** grinding belts. The same grinding and polishing materials are available as for the **POLY-PTX®** for polishing and polishing to a mirror finish. The various steps are also identical to those described above.



APPLICATION TIP

The grinding and polishing recommendations are exclusively tailored to genuine Eisenblätter abrasives and enable you to achieve the results shown here!

Polishing stainless steel surfaces to a mirror finish with an angle grinder and the FIX HOOK AND LOOP SYSTEM

A VARILEX® WSF 1600 Professional speed-controlled angle grinder is ideal. The Ø 150 mm disc size is particularly rational and economical for large surface areas.



1. Coarse pregrinding

Remove very **deep scratches** and **level coarse welds** with FIX flap discs (grit 40 or 60) on a FIX special adhesive backing plate without a damping layer or using a **FIX zirconium disc** on the **FIX special adhesive backing plate** with damping layer (or alternatively using a normal flap disc).



2. Intermediate grinding

For **minor scratches** or **mill skin** you can start immediately with a **TZ-Pyramid disc**, grit A65, S45 or A30 (depending on the surface quality). Generally the **TZ-Pyramid disc** with grit size A16 is used for the final grinding before the final polish. The **TZ-Pyramid disc** A06 is only used for "poor" material qualities.



3. Polish

Pre-polish with **SuperPolish disc** on **FIX special adhesive backing plate with PUR damping layer** in conjunction with **white polishing paste**.

Main polish with **SuperPolish disc** on **FIX special adhesive backing plate with PUR damping layer** in conjunction with **blue polishing paste**.

Polish to a mirror finish with **SuperPolish disc** on **FIX special adhesive backing plate with PUR damping layer** in conjunction with **pink high gloss polishing cream**.

→ 22+92

Tips

Use very little pressure when grinding with **TZ-Pyramid** as a result of its high aggression feature. The weight of the angle grinder is generally sufficient.

For polishing it is important that a new **SuperPolish disc** is used for each **paste and cream** to ensure that the different paste grit sizes do not become mixed.



Remove the paste residues with **POLY lime** and a micro-fibre cloth



Apply **INOX Protect** to seal the surface

Additional smoothing using **MAGNUM® Fleece TOP K900** (page 99) or **FIX Fleece TOP** (page 92) **before** the main polish (after **TZ-Pyramid**) has also produced particularly good polishing results.

APPLICATION TIP

Polishing small or difficult to access surfaces with the MINI HOOK AND LOOP SYSTEM.

The **MINI-FIX HOOK AND LOOP SYSTEM** with the **MINI-MAX** or a one-hand angle grinder, such as the **VARILEX® WSF 900 Duo** is ideal for small surface areas and/or areas which feature difficult access.

Pre-grinding

Using **MINI-FIX zirconium disc** or **MINI-FIX flap disc**, then rework with **TZ-Pyramid disc** grit size A65 to A30 (depending on surface quality).

Intermediate grinding

With **TZ-Pyramid disc** grit A16.

Polish

Pre-polish with **SuperPolish disc** and **white polishing paste**.

Main polish with **SuperPolish disc** and **blue polishing paste**.

Polish to a mirror finish with the **SuperPolish disc** and **pink high gloss polishing cream**.

→ 30+22

Note:

Always use **TZ-Pyramid discs** and **SuperPolish discs** with the **MINI-FIX special adhesive backing pad** with the **PUR damping layer**.

Always use a separate **SuperPolish disc** for each **polishing paste** and **cream** so that the different past grit sizes do not become mixed.

Cleanliness at the workplace is an absolute must for polishing!



Backing pads for the MINI-FIX system are available with an M14 thread or a 6 mm shaft.



APPLICATION TIP

The grinding and polishing recommendations are exclusively tailored to genuine Eisenblätter abrasives and enable you to achieve the results shown here!

Polish aluminium (and non-ferrous metals) to a high gloss finish with a speed-controlled angle grinder/polisher and the FIX HOOK AND LOOP SYSTEM.

As a result of the different aluminium alloys, polishing aluminium surfaces (sheets, etc.) has proved to be particularly difficult. The softness of the material means that the pregrinding process (removing scratches and impurities) is particularly important. Choosing the wrong grit for the pregrinding can ruin the end result.

1. Preparation

We have developed a special pure fleece hook and loop disc for the **FIX HOOK AND LOOP SYSTEM** for pregrinding aluminium (see page 92) which is aggressive enough to remove scratches and impurities but is nevertheless soft enough not to roughen the surface too much. Use this disc for an adequate but thorough pregrinding process. All fleece discs, such as surface conditioning discs, are generally too aggressive if you wish to go on to polish aluminium to a mirror finish. Marks from pre-grinding are made visible again by the high gloss polishing process.

2. Main polish

Using the FIX special adhesive backing plate and a SuperPolish disc in conjunction with **blue polishing paste**. Apply the paste to the polishing disc which is rotating at low speed. Polish the surface area until a perfect mirror finish has been produced. Repeat the process a second time if necessary.

3. Final polish

To produce an absolutely shadow-free mirror finish, the last step is once again carried out with a **SuperPolish disc** and **pink high gloss polishing cream**. The cream should ideally be applied evenly on to the **SuperPolish disc** with a spatula.



Tips

Always use a separate **SuperPolish disc** for each **polishing paste** and **cream** so that the different past grit sizes do not become mixed.

Paste and cream residues can be removed from the workpiece using a new **SuperPolish disc** or using a grease cleaner and a **micro-fibre cloth**. The first method has proved to be the most effective, however.

Preserve and protect grinded or polished stainless steel surfaces

Paste and cream residues from polishing on stainless steel can be removed with **POLY lime**. Simply scatter the lime on to the surface and wipe it off with a micro-fibre cloth.

Paste residues, as well as fingerprints, grinding dust, minor oil and grease marks and adhesive residues can be removed easily and without streaks using **Brilliance Clean**. Any residues will evaporate immediately. To protect grinded or polished metal surfaces, spray **INOX Protect** on to the surface (it will also clean grease and smeared areas), **rub it in with a micro-fibre cloth, wipe dry and polish briefly with a micro-fibre cloth**. This will seal the surface with a dry, invisible protective film. The protective effect will last for several weeks; polished surfaces will not darken.





■ The Eisenblätter Demo Center

■ Presentations and demonstrations of all Eisenblätter products.

You can see all the Eisenblätter products, even the latest innovations, up close at our demo center and even try them out yourself!

■ Demonstration of the most advanced Eisenblätter grinding and polishing techniques.

Our technicians demonstrate how to work with Eisenblätter products to produce a flawless mirror finish on stainless steel and non-ferrous metals efficiently and profitably, grind and polish aluminium without difficulty, conform to an industrial grind and much more.

■ Free training for your employees

Our colleagues Jens Wermelskirchen and Stefan Rust will train your employees in the use of Eisenblätter products and optimise your grinding and polishing technology from rough grinding up to a flawlessly polished mirror finish.

Don't hesitate. Contact us for an appointment soon!



■ Gerd Eisenblätter GmbH – Worldwide



■ Present at international trade shows



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