



# EISENBLÄTTER

Simply better ideas.

EISENBLÄTTER · Grinding and polishing to a mirror finish – The best from the world of grinding · The Gerd Eisenblätter GmbH customer magazine 01/2018

## FULL SPEED AHEAD!



**THE NEW STAYING POWER**

### POLY-PTX® 802 HT

The new POLY-PTX® 802 HT allows you to achieve convincing production increases and value preservation with very low follow-on costs. It is optimally equipped for the toughest continuous operation conditions.



**THE TORQUE MARVEL**

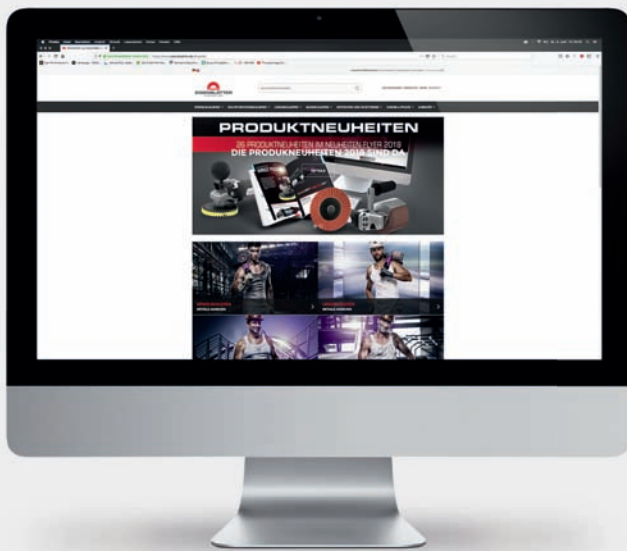
### VARILEX® 1802 HT

The newly developed VARILEX® 1802 HT angle grinder is among the most robust and powerful one-handed angle grinders in the world and is manufactured entirely in Germany.

**BRUSHLESS, COMPACT, POWERFUL**

### VARILEX® Akku 18V

The newly developed battery-operated angle grinder from Eisenblätter is a compact, manageable, and particularly high-performance powerhouse with an unusually long battery life!



**More information about our products can be found in our online shop:**  
**[www.eisenblaetter.de/shop/en/](http://www.eisenblaetter.de/shop/en/)**

All new items in our entire product range can be found online in the Eisenblätter web shop. All products can be delivered immediately or within a few days.

## Certified quality!

DIN ISO certification according to the latest standards.

**Eisenblätter GmbH – inventor and innovation driver behind much of today's familiar grinding technology – is certified according to DIN ISO 9001:2015.**

This quality management certification, which forms the basis of the company's continuous improvement process, provides product quality that is consistent over the long term. The company is constantly preparing itself for tough international competition, now and in future. "The orientation towards absolute top quality was always a central concern in the development of Eisenblätter products," says CEO Gerd Eisenblätter in an interview.

"Product safety, user-friendliness, and especially environmental compatibility are also top priorities in the manufacture and use of our products."

This is the only way to achieve 100% customer satisfaction today. It is the only way Eisenblätter has ensured the great utility its customers have come to recognise for so many years. At Eisenblätter, we are always looking to the future. We want to deliver quality products manufactured according to the state of the art.

Only the best products turn out to be the most economical when compared to the competition. Cheap products often cost companies a great deal of money!

"The cost of labour is the greatest for companies today, and that's where they can save the most money – with smarter, more effective abrasives."



## Customer information

**Effective immediately, all machines will be delivered in robust tool cases with base foam.**

**The professional sets even come in an impact-resistant survival case.**

## Exhibition dates

**9 - 11/10/2018**

**ALUMINIUM – Hall 9, Booth F09**

Düsseldorf, Germany

**23 - 26/10/2018**

**EUROBLECH – Hall 15, Booth B06**

Hanover, Germany

### MASTHEAD

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# The ideal team for outstanding grinding results: **POLY-PTX® 802 HT** – linear grinding system with special- ly balanced grinding and polishing wheels

The new **POLY-PTX® 802 HT** allows you to achieve **convincing production increases and value preservation with very low follow-on costs**. It is **optimally equipped for the toughest continuous operation conditions**. **POLY-PTX® 802 HT – the new staying power!**



## **POLY-PTX® 802 HT – the new version of the linear grinding machine for universal use, greatly improved!**

Grinding out scratches, satin finishing, matt finishing, mirror finishing, deburring perforated sheet metal, and industrial pipe grinding are just a few examples of the wide range of use for the POLY-PTX® 800 in workshops and industrial operations.

The new POLY-PTX® 802 HT machine improves the original even more! The new POLY-PTX® 802 HT (the HT stands for "high torque") has been on the market since May 2018. It was introduced for the first time at the International Hardware Fair Cologne. The newly developed planetary gear offers an unprecedented performance profile: power distribution has been optimised and wear resistance greatly improved. The machine truly is a continuous runner. Its good torque performance guarantees power reserves in professional continuous operation, and constant speeds ensure uniform roughness and consistent grinding results. It is supported by rubberised handles equipped with grip inserts to enhance feel during work. Perfect grinding results are your best calling card! **No machine should be without the newly developed dust-prevent system**, for which a patent is pending. A sophisticated protective cap effectively prevents dust from entering the lateral ventilation grilles. Particles bounce off the protective cap. Fresh air intake is only from the air in the rear, which is largely free of particles.

## **Grinding, from coarse to fine.**

Here, all tool grit ranges are harmonised optimally with one another, allowing work from the tiniest jobs to a perfect final result. Great economy is practically built in, since it can be used with a wide range of material, such as stainless steel, steel, non-ferrous metal, and wood.

This gives you increased flexibility for linear grinding, satin finishing, and brushing.

## **The new POLY-PTX® 802 HT linear grinding machine with its planetary gear has smoothly running, balanced wheels.**

Only balanced, optimised linear grinding wheels allow a flawless surface finish to be achieved. The workpiece remains free of chatter marks and unintended shadows. Balanced linear grinding wheels (fleece and mix wheels) can only be had from Eisenblätter. A proprietary balancing process followed immediately by a wheel measurement is the only thing that ensures **optimised smooth running**.

This improves not only the quality, looks, and productivity associated with the workpiece, but also the tool's service life and thus that of all mechanical drive components – especially the transmission system. As is done in the process of balancing a car tire, a counterweight is applied to the inner core if necessary!



Optional: Suction hood with optimised hose guide



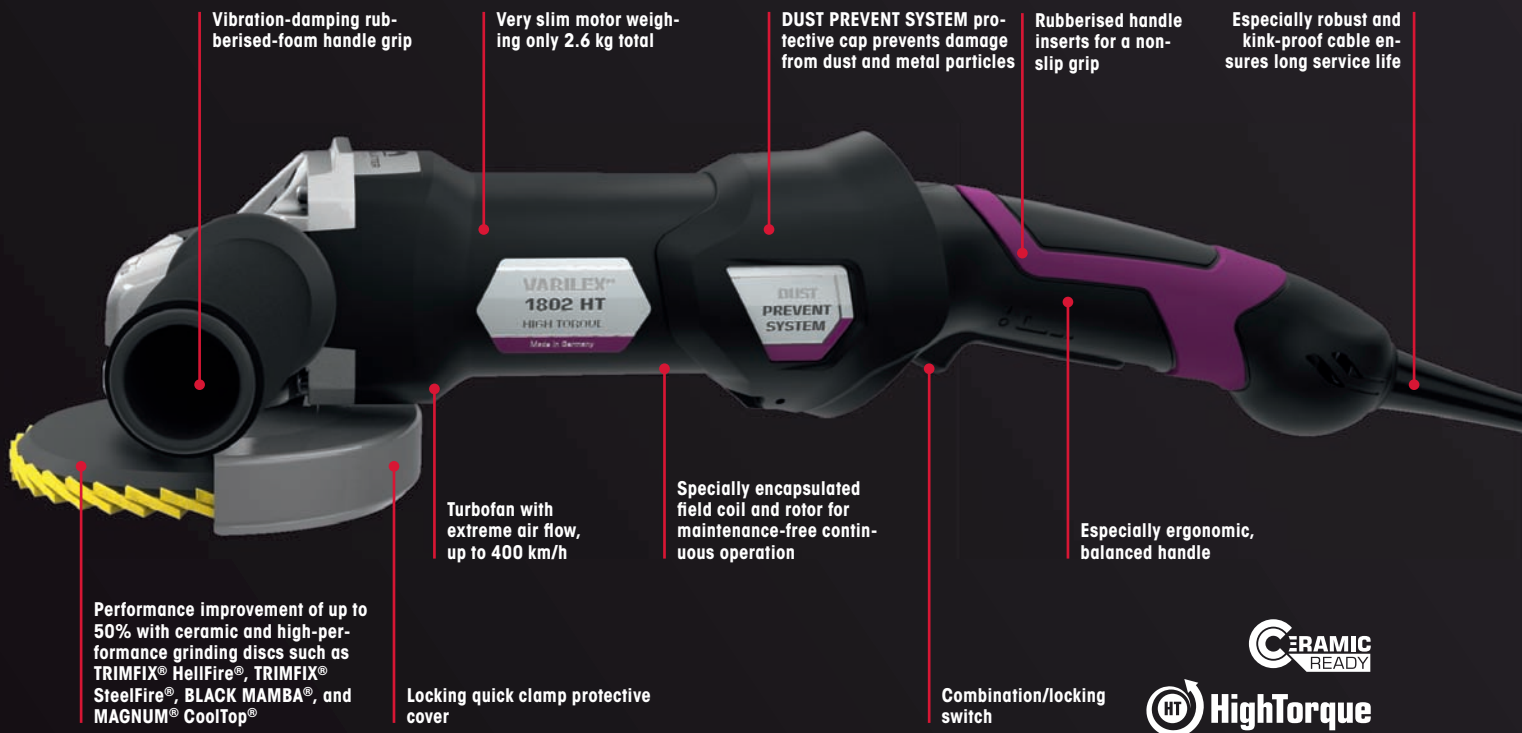
Optional: Ball joint mounts for stationary use



# Robust and powerful VARILEX® 1802 HT – the torque marvel

For the TRIMFIX® SteelFire® high-performance flap disc, Eisenblätter is launching a sensational refinement of its VARILEX® one-handed angle grinder: the VARILEX® 1802 HT is writing a new chapter in light hand-held angle grinders.

The new machine is equipped with unprecedented torque and is thus eminently suitable for ceramic flap discs. Because of coarse ceramic grinding discs' great braking effect, most similar angle grinders on the market quickly reach their performance limits. The VARILEX® 1802 HT has been equipped with the ideal speed for cutting-edge flap discs (ceramic and 100% zirconium)! Performance that shows: using the VARILEX® 1802 HT in conjunction with high-performance Eisenblätter flap discs such as TRIMFIX® SteelFire® and TRIMFIX® HellFire® can mean a great deal of time and money (30-40% savings)! **This adds up to savings of 20,000 euros per year per grinding work (because of reduction in necessary machining hours).**



CERAMIC  
READY

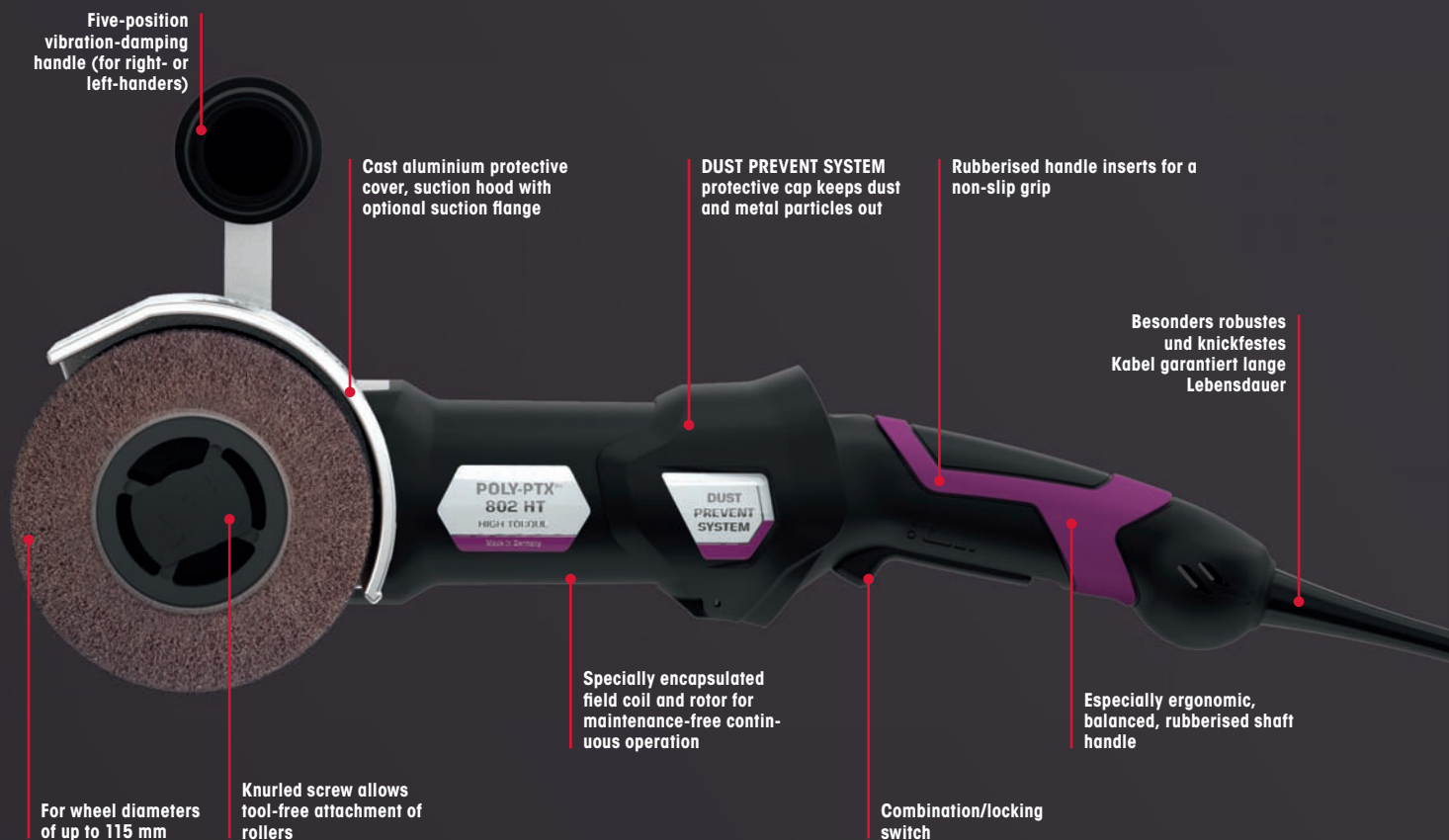
HT HighTorque



Optional: ball joint mounts for stationary fixing to workbenches, etc.



Optional: for the first time, the new, soft 3D ball handle allows grinding that reduces strain on the user by allowing any work position, avoiding unnatural or exhausting hand positions. This makes overhead work child's play.



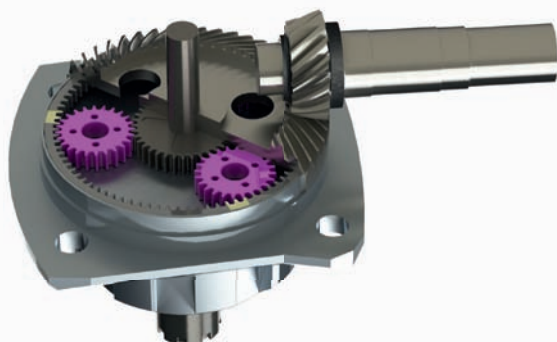
"Ingeniously simple. Simply ingenious." This claim applies here, too. The many advantages of the POLY-PTX® powerhouse from Eisenblätter are accentuated by the correctly harmonised, steplessly adjustable machine speed (800 to 3,000 upm). Great elasticity in the tools used and the capability of harmonising the speed to them ensure the desired work results and the best surface appearance. Other devices with significantly less power and torque quickly reach their limits with various tools because of great friction resistance. POLY-PTX® 802 HT for even more linear grinding power!

**Developed to make perfect grinding technology fast and affordable! With balanced special wheels for linear grinding.** The multi-functionality of the new POLY-PTX® 802 HT is one of its strengths: **Grinding from coarse to fine, satin finishing, matt finishing, perfect mirror finishing, levelling weld seams, removing**

**scratches, polishing open and closed pipe constructions, and restoring industrial finish.** Eisenblätter also offers you a huge selection of grinding tools and accessories for all this work. The use of the grinding belt contact wheel allows both the POLY-PTX® 800 and the POLY-PTX® 802 HT to be easily converted for pipe machining: Round pipes such as those in rail production can be quickly satin-finished, ground, or even polished. So-called resealable T-lock belts even allow work on closed pipe constructions. **Incidentally, the new machine is 300 g lighter than its predecessor, making overhead work even easier.**

## POWER TRANSMISSION WITH A PLANETARY GEAR

Newly designed transmission mechanics ensure wear-resistant power transmission despite the enormous gains in torque.



## DUST PREVENT SYSTEM FROM EISENBLÄTTER

The new DUST PREVENT SYSTEM (patent pending) effectively protects the interior of the motor from swarf and metal particles without impairing the cooling ventilation. A sophisticated protective cap effectively prevents dust from entering the lateral ventilation grilles. Particles bounce off the protective cap. Fresh air intake is only from the air in the rear, which is largely free of particles.



# Brushless, Compact, Powerful VARILEX® AKKU 18V – extremely long charge

BRUSHLESS

## The new battery-powered, 18-volt-based angle grinder for free grinding.

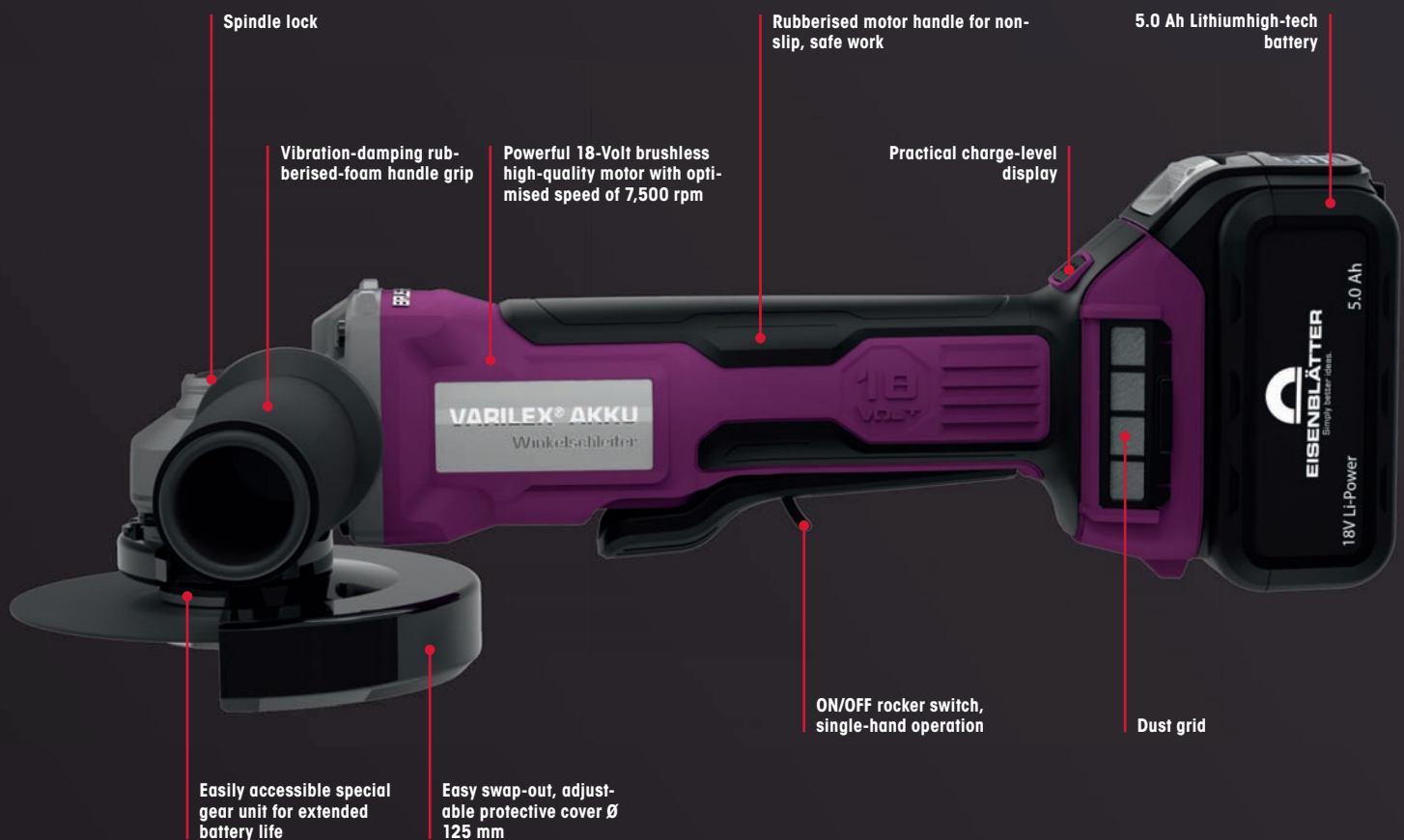
It is chic with its 2.2 kilogrammes, including the battery (1.5 kg without it) and two powerful 18-volt batteries in the storage case. Equipped with a universal quick charger, Eisenblätter batteries can be recharged in a very short time. Its unbelievably long battery life makes the VARILEX® Akku angle grinder a constant companion on the construction site, in the workshop, and even in industry. High-tech components from market-leading manufacturers and lithium-ion batteries ensure long charges of 20-30 minutes under load (two batteries). The electronic charge management system built into the charger protects the machine and multiplies the service life of Eisenblätter batteries.

The brushless motor guarantees a very long service life and extremely great efficiency.

As is usual with Eisenblätter machines, the VARILEX® AKKU 18V is equipped with a spindle lock and handles on both sides. Together with the low weight (2.2 kg including the battery), this makes it especially ergonomic and manageable. Two protective covers – one open and one closed – round out the contents of the robust carrying case. The power switch with its locking function is easy to reach. The electronics bring the disc to a standstill in an extremely short time.

## Initial comments by our customers:

"Extremely manageable and light, currently with the longest disc running times in direct ampere hour (Ah) comparison!"



The newly developed, brushless VARILEX® AKKU 18V angle grinder is a compact, manageable, and particularly high-performance powerhouse – its unusually long battery life makes it the ideal tool for building sites, assembly operations, and many other application locations!





TRIMFIX® HellFire® · BLACK MAMBA® · SteelFire® · ZIRCOPUR® · FLEECE-FLAP® · PLANTEX® Cool Top® Universal  
MAGNUM® CLEAN PLUS · CLEAN STRONG · CLEAN-MIX · STAINLESS-CLEAN Unitized

ENVIRONMENTALLY

NO FIBRE GLASS DUST

FANTASTIC PRICE AND PERFORMANCE

100% SELF-TRIMMING

## Natural fibre instead of fibre glass

Natural fibre backing plate from Eisenblätter



With the motto "Natural fibre instead of fibre glass" helped Gerd Eisenblätter make his breakthrough many years ago. The natural fibre backing plate from Eisenblätter is still the "measure of all things". This natural fibre backing plate not only looks like it is made of fibre glass, but also has enormous advantages. "Our natural fibre technology has redefined the concept of grinding," says Gerd Eisenblätter. "These backing plates, equipped with natural genes, offer many advantages in technology, during grinding, and for the user and the environment.

### The decisive advantages are as follows:

The natural fibre backing plates have viscoelastic characteristics which allow them to automatically enlarge the grinding surface. This means that more grinding grit is involved in work, which better distributes and reduces the heat! They are up to 100% usable, since the natural fibre plates automatically self-trim during grinding. **This allows the abrasive cloth to be completely used up for the first time, which is an enormous cost advantage. Flap discs with glass fibre plates can't do that. When the plate edge makes contact, they are finished.** Then they must be disposed of, and some of them still have a great deal of cloth left (up to 30-40%)!

**What a waste!** Natural fibre also avoids fibre glass dust at the grinding location. "Nobody needs to be exposed to fibre glass dust when they grind with flap discs, but clearly not everyone knows about the technically superior natural fibre backing plates!" says Gerd Eisenblätter. Flap discs with natural fibre compound have a fibre substrate with damping and elastic properties that enhance their performance in grinding operations. The natural fibre elasticity allows better adjustment and a larger contact surface area on the workpiece (simply more effective because of more grit). This improves material removal, of course. Grinding is cooler, the workpiece does not tarnish as easily, and the abrasive cloth does not burn.

### Maintain lightness. Show strength. Develop power.

These are the guiding principles of flap discs with natural fibre backing plates from Eisenblätter. The natural fibre compound offers great tensile strength at a low weight. The natural fibre backing plates are calculated according to the FEM (finite elements method). This ensures optimal strength and safety with minimum material use. All Eisenblätter flap discs with natural fibre backing plates have been tested by the Materials Testing Agency (MPA Hanover) and approved for 80 m/sec according to DIN EN 13743. A special process means that the abrasive cloth receives no thermal load during disc manufacture and therefore does not dry out. This enhances grinding performance and extends the service life. Even the adhesive layer has elastic, damping properties, reducing grinding noise further.

### For the environment.

Did you know that, during its growth, a tonne of natural fibre converts about two tonnes of CO<sub>2</sub> to oxygen via photosynthesis? This keeps Gerd Eisenblätter GmbH looking forward. Having a vision means working towards the future, staying in motion, and taking care of nature. That is what we do with innovations and with the natural fibre backing plate, which is unique in the world – **made in Germany.**





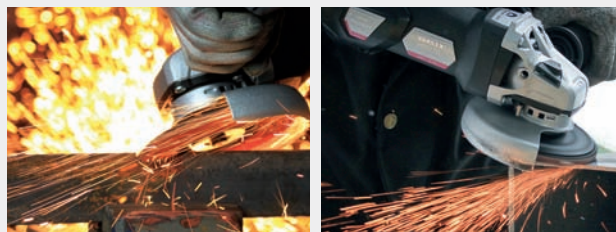
# TRIMFIX® SteelFire® – the performance marvel on steel.

Today, efficiency, speed, technology, and great savings potential are a precondition for success in tough international competition. It is not the cheapest product that saves money, but the one that performs best! The new TRIMFIX® SteelFire® raises the performance level in steel machining to a new level. Up to 5 kg of steel removal in a very short grinding time (per disc) available immediately. These are unprecedented removal values. As our competitors about their products' material removal. You will see that these performances are available only from Eisenblätter.

## SteelFire in detail.

Increasing cost of labour in steel machining requires new generations of flap discs. 45 years of experience are contained in Eisenblätter's newly developed **SteelFire® high-performance flap disc**. It is a cutting-edge grinding tool for **steel construction in shipyards, bridge-building, railroads, energy-sector construction, building construction and civil engineering, and much more.** Anywhere where it is important to effectively machine steel in the shortest possible time, the TRIMFIX® SteelFire® is right at home. This viscoelastic backing plate is unique on the market and guarantees optimal workpiece adaptation. Our new VARILEX® 1802 HT angle grinder is ideally suited for this disc.

**Recommendation: For constantly changing materials (steel, stainless steel, aluminium, titanium, etc.), we recommend TRIMFIX® HellFire®.**



This team of high-tech grinding disc and torque wonder guarantees material removal that outstrips the competition. The VARILEX® 1802 HT's optimised speed produces efficiency gains of up to **40%**. Savings potential of more than EUR 20,000 per employee per year can be had (as a result of machining hours that can be dispensed with). TRIMFIX® SteelFire® guarantees this material removal to the very last grain. Try it. You will be amazed. It keeps on grinding when other brand-named products have long since thrown in the towel.

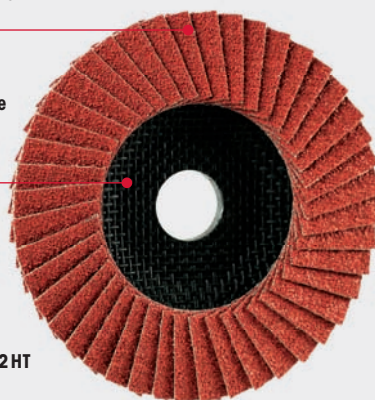
**You will see it immediately in the flying sparks – material removal like that is something you can only get from Eisenblätter!**

Hybrid grit mix ensures consistent performance and long service life to the end of the disc

Completely trimmable natural fibre compound backing plate is easy on the environment and the user (CO<sub>2</sub>-neutral)



Up to 5 kg  
Material removal  
with VARILEX® 1802 HT



# BRIGHTEX® makes mirror finishing as easy as pie!

Eisenblätter is revolutionising polishing effort effective immediately!

## Mirror finish in just two steps. EASY!

The BRIGHTEX® polishing system makes mirror finishing as easy as pie: the Eisenblätter process gives untreated metal a no-shadow mirror finish. Chrome-plated look?

No problem: with these two new polishing discs, the BRIGHTEX® FLAP BERRY and SUN, mirror finishing has become much easier!

### Step 1: BRIGHTEX® FLAP BERRY for pre-polishing

The new BRIGHTEX® FLAP BERRY makes polishing feel fabulous. This flexibly fanned polishing disc pre-impregnated with BRIGHTEX® BERRY polishing paste, raw sheet, even with an oxide layer, can be easily given a mirror finish. Without prep work. For scratches, we recommend pre-polishing with a Trizact™ disc (A30/600 grit) – ideally with the FIX HOOK & LOOP system with a backing pad with a centring pin.

### Step 2: BRIGHTEX® FLAP SUN for main polish

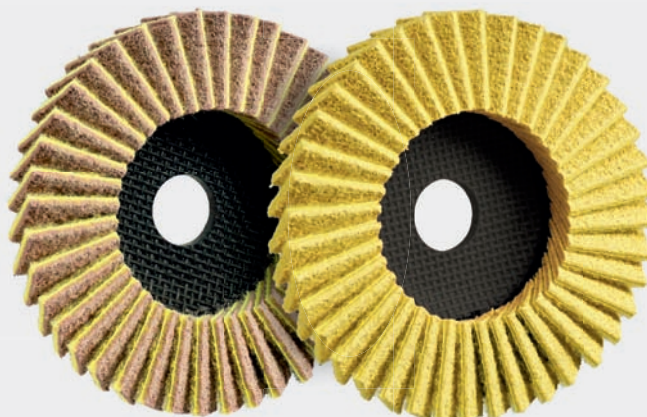
You can get a finish effect with BRIGHTEX® FLAP SUN. Impregnated with BRIGHTEX® SUN polishing paste, it removes light clouding. In this way, you get the best possible mirror finish. For removing any leftover clouding and smears from all metals.

You can freshen up the BRIGHTEX® polishing disc by applying to appropriate polishing paste. The BRIGHTEX® BERRY and SUN polishing pastes are available separately.

**Try out our BRIGHTEX® FLAP test set** (Article number 99327, can be found at [www.eisenblaetter.de/shop](http://www.eisenblaetter.de/shop))!



Directly to the  
online shop!



BRIGHTEX®  
FLAP BERRY

BRIGHTEX®  
FLAP SUN

