



WEBER PT Grinding Machine

A new dimension of grinding, rounding
deburring and descaling



WEBER

1913

WEBER works according to a 100-year-old tradition and experience in building grinding machines

1955

For over 50 years, WEBER has been producing drum sanders

2017

These days, WEBER sets new standards in the field of grinding technology with its 6 model ranges

METAL PERFECTLY MACHINED.

Stability. Flexibility. Functionality. Regardless of the requirements designers and engineers have for the realisation of their

projects – metal is the material that can meet these

special requirements. There is no doubt: Metal

is fascinating! At the end of machining

procedures which are as precise as they

are efficient, more and more new application

possibilities are revealed. For over 100 years, we have

been developing and producing grinding technology to

meet the highest demands. We offer solutions for thin sheet

and heavy plate machining. In this way, our innovations contribute

to the perfect utilisation of the potential metal has as a raw

material. Our products fascinate people all over the world.



QUALITY IS OUR PROFESSION.

At WEBER we practice thorough quality control.

This is apparent in the overall concept of our grinding

machines, intelligent solutions and numerous

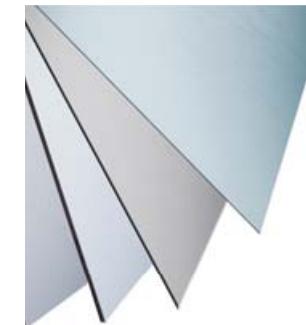
patented details, all of which have the same result:

Perfect surfaces and edges.



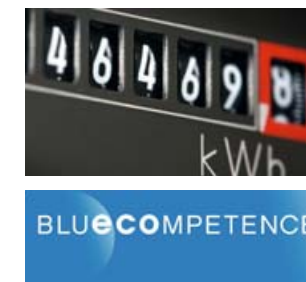
WEBER. **Ergonomic and intelligent design**

Machine systems with complex functions require a control system that allows for precise work and intuitive operation: WEBER fulfils these requirements with an intelligent operating concept: The “i-Touch” control knob or, for example, the automatic thickness adjustment are WEBER’s guarantee for safe and reliable operation.



WEBER. **Individual and modular**

The requirements of industry and craftsmanship are extremely diverse. Different punched or cut components and materials require increasingly specialised machining procedures. At WEBER we devote ourselves to the changing requirements for deburring, rounding and surface grinding of metals and provide suitable grinding technologies as a sensible and efficient solution. As our customer you will find the best solution for your requirements.



WEBER. **Energy-efficient and resource-friendly**

Considerate handling of energy and resources is the order of the day. For us, this is a matter of course. WEBER fulfils these high demands with its electric and mechanical systems. The grinding belt drives are equipped with high-efficiency rated motors, the main drives are equipped with “Eco Drive” technology. WEBER DR planetary head technology ensures an even wear of tools and lowers operating costs significantly.



Perfect metal machining at its best

WEBER PT

grinding and deburring machines for thin sheets and heavy plates

The WEBER PT is a **universal grinding machine of a new generation** for deburring, rounding, descaling and surface grinding of thin sheets and heavy plates. Up to 4 grinding stations allow for **all machining variations**. A CBF station can be installed for a perfect surface finish. The STC bolt grinding beam is available especially for flame-cut and plasma-cut heavy plates.

WEBER PT – advantages at a glance:

- New modern design
- New simplified operating structure through WEBER i-Touch with its faster and more easily accessible operating panel
- Larger and variable grinding belt length
- Laterally extendible planetary head unit and MRB unit for improved integration into production lines
- Improved accessibility for maintenance
- Replaceable units through the modular design for improved flexibility in case of changing requirements
- Simultaneous machining top/bottom as an option

Technical data

1100 mm

1350 mm

1600 mm



1 to 4 grinding stations

- Operating widths 1100, 1350 and 1600 mm
- Operating height 900 mm
- Version with 1 to 4 grinding stations
- Workpiece thickness 0.3–100 mm
- Infinitely adjustable feed speed (1–10 m/min)
- Grinding belt length 2620 mm
- Grinding belt drive up to 24 kW
- Siemens Multi Panel TP900 Comfort
- “i-Touch” controller
- Flexible arrangement of the grinding stations



WEBER PT

WEBER GRINDING TECHNOLOGY

- GD grinding roller
- DR planetary head
- STC bolt grinding beam
- BS brush rollers
- MRB multi-rotation brush
- CBF grinding technology
- K combination unit
- “i-Touch” controller



WEBER PT design

Optimised for appearance and function

The design of the WEBER PT is not merely a new dimension of grinding technology appearance. Perfectly clean lines and well-conceived ergonomics make it one of the most modern grinding and deburring machines on the market. The diagonal arrangement improves easy and fast accessibility to the operating terminal; all connections can consistently be installed from the top. The large viewing glass allows for an unobstructed view of the machining stations. Accessibility of all electronic and mechanical parts makes maintenance significantly easier.



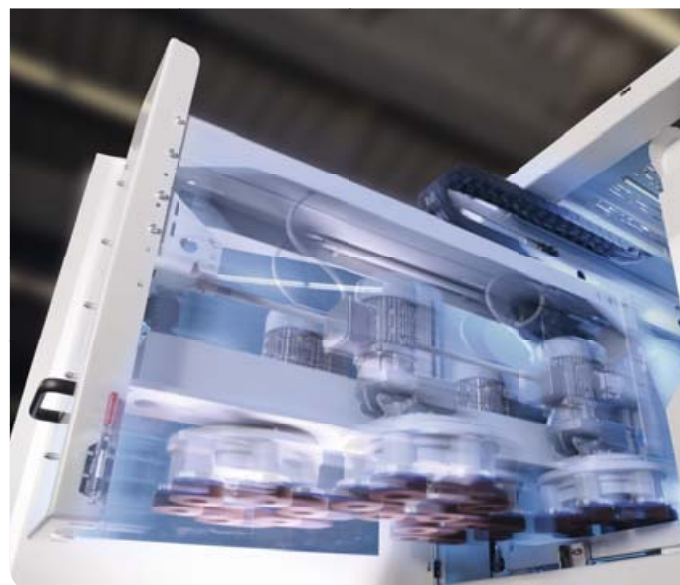
WEBER PT machining stations

Installation in any sequence

The WEBER PT can be equipped with up to 4 machining stations. The arrangement of the grinding stations can be varied as required. In addition to the GD grinding roller and the K combination unit, it is, of course, possible to install the WEBER CBF grinding technology, the STC bolt grinding beam and the complete WEBER brush technology. The CBF grinding beam makes variable grinding patterns for thin sheets possible without chatter marks. The STC bolt grinding beam creates a consistent grinding quality for thick, uneven heavy plates.

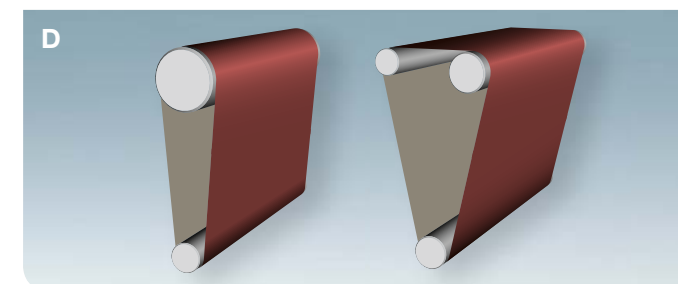
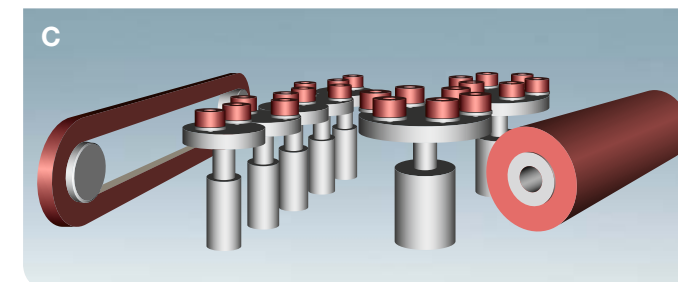
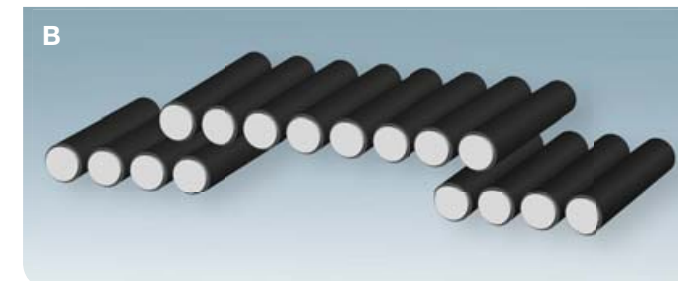
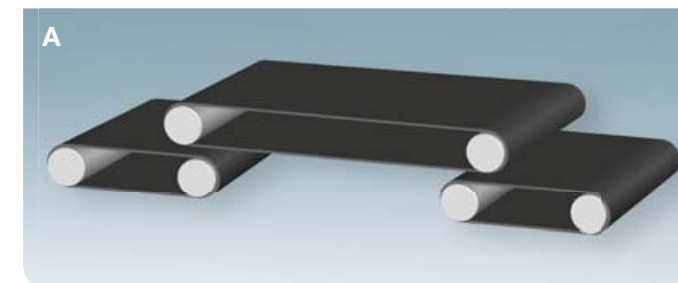
The brush units with the DR planetary head and the MRB brush system guarantee perfect edge machining. An ergonomic design is also a primary concern for these units: All brush systems can be pulled out laterally for equipping and maintenance.

The modular construction of WEBER also allows for replacement of grinding stations later on.



WEBER “i-Touch” controls with a simplified operating structure

As a standard, the WEBER PT grinding and deburring machine is equipped with a high-quality 9" and 12" touch operating terminal with colour mode. This is based on the Siemens control system. Due to the new graphical user interface, operation is even simpler and more efficient. As an alternative, the tried and tested “i-Touch” control knob can guide you through the most important menu functions. All adjustments can be made and saved on the operating terminal. Integration into higher ranking control systems or interlinking with other machines is no problem.



Simultaneous machining top/bottom as an option

Perfect grinding quality times two

The concept of the PT series is, above all, designed for industrial use. For this reason, WEBER also offers its new PT grinding and deburring machine with simultaneous machining on the top/bottom. It offers a direct transfer of workpieces without an intermediate conveyor belt. The electrical switch boxes are integrated in the machine frames to reduce the installation space requirements.

The selection and arrangement of the machining stations for top and bottom machining can be varied as required. This means that the machine design can be adapted perfectly to each individual grinding and deburring task.

Arrangement of the stations in detail:

- A** Transport tables
- B** Roller transport system
- C** Cross brush unit
 - P2 Planetary head unit
 - P6 Planetary head unit
 - Brush unit
- D** D grinding unit
 - K grinding unit

CBF TECHNOLOGY FOR A PERFECT SURFACE FINISH.

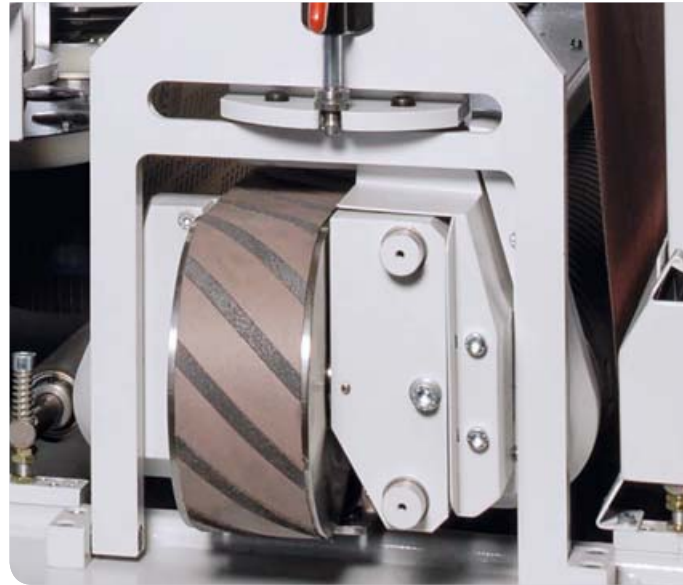
A perfectly ground metal surface free of chatter marks is an outstanding quality feature. WEBER has found the perfect solution to achieve this, with its CBF technology, which is used in the new PT machine.



WEBER tool technology

The ideal brush option for each application

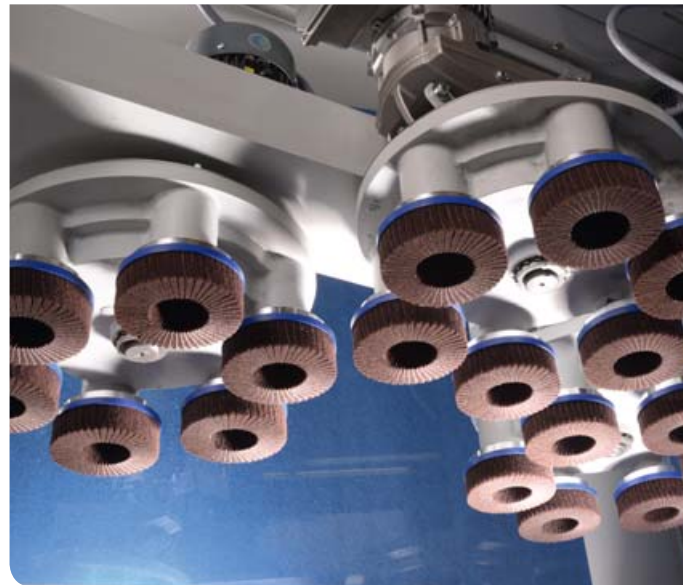
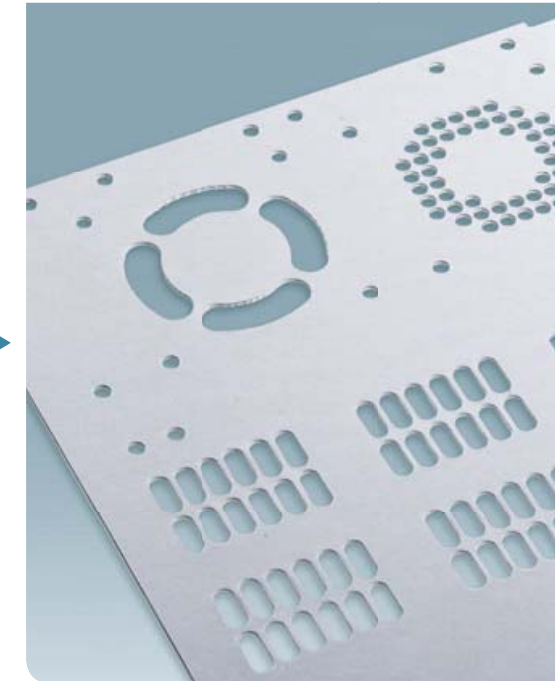
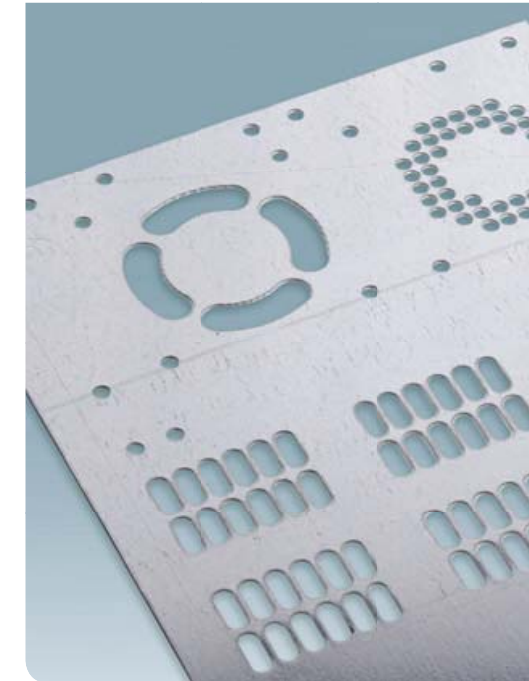
WEBER offers diverse round and cup brush options for any type of metal machining. Automatic tool length measurement guarantees the least possible wear during operation, thus keeping the operating costs low. A sophisticated quick-changing system ensures that a single person can change the tools in very few steps. This saves time and money.



WEBER CBF grinding beams

transverse lamellae for homogenous and variable grinding patterns

The patented WEBER CBF system presses the grinding belt against the workpiece via a segmented grinding beam. In this way, diverse grinding patterns are possible with an easily adjustable line length. Even machining thicker metal sheets is no problem for this system – and it is all accomplished with a longer grinding belt service life and lower material heating.



WEBER innovation brushes

The ideal technology for perfect edge machining

WEBER has found a convincing solution for the problem of large rotating brush systems. Dividing up the brushes onto several smaller tool carriers minimises the machining differences along the operating width of the machine, which occur otherwise. WEBER also consistently uses this technology for round and cup brushes in its new PT machine. The compact design decreases the space requirements significantly allowing for problem-free combination with other machining stations.

The WEBER DR planetary head guarantees perfect edge rounding and can be used from the top and bottom as an option.

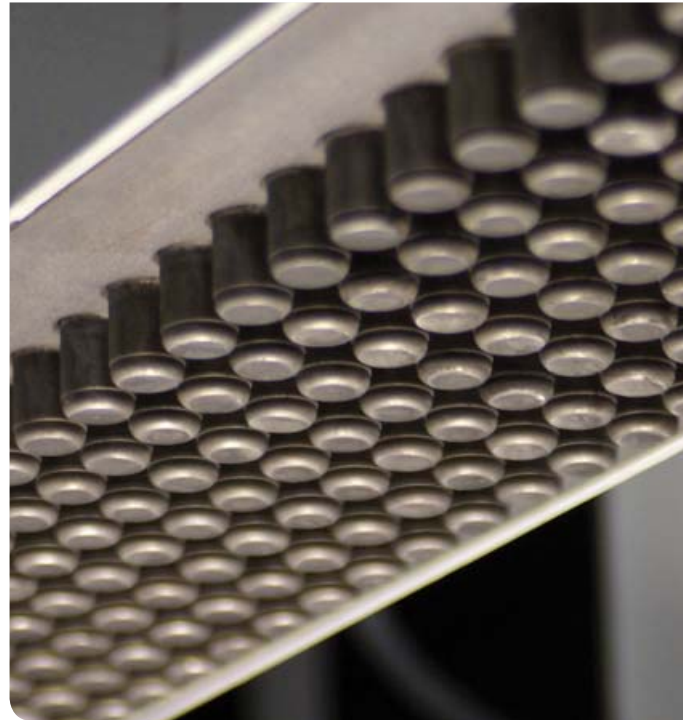
The WEBER MRB brush system achieves rounding on all sides of parts with rim holes and slots.



Results that speak for themselves

High-quality lasered, punched and nibbled parts do not achieve the desired quality until they have been ground by a WEBER machine. Smooth surfaces on the outside and inside as well as smooth edges create the conditions required for perfect, safe processing of the parts. The examples speak for themselves.

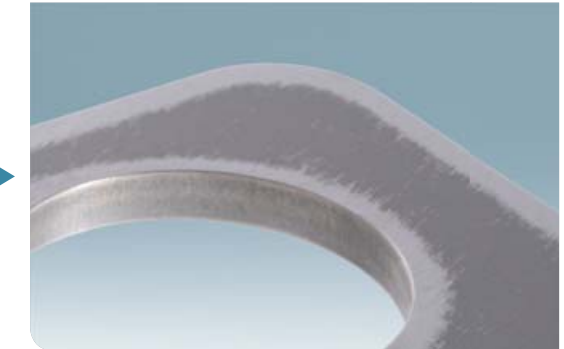




WEBER STC bolt grinding beams

Constant grinding pressure,
high tolerance compensation

With the STC grinding beam system, WEBER has taken machining of thick and uneven plates to a new level: A constant grinding quality, a high material throughput and low operating costs due to a high grinding belt operating life are characteristic for this technology. This function is simple, but well-conceived. The grinding belt is pre-tensioned downward by a few millimetres and held in a flat position. Due to the long contact surfaces with the workpieces, it makes a stronger impact on all edges without creating secondary burrs. The pre-tension compensates for existing thickness differences between one part and another by itself and therefore makes economic multiple feeding possible – an enormous advantage, especially for small parts.



Results that speak for themselves

Steel plates and sheet metal parts are important components for machine construction. These solid parts require special machining: Flame and plasma cutting. To obtain the best results from the raw material and achieve maximum quality, grinding is carried out after the cut – ideally with a WEBER PT grinding machine. The final results speak for themselves.

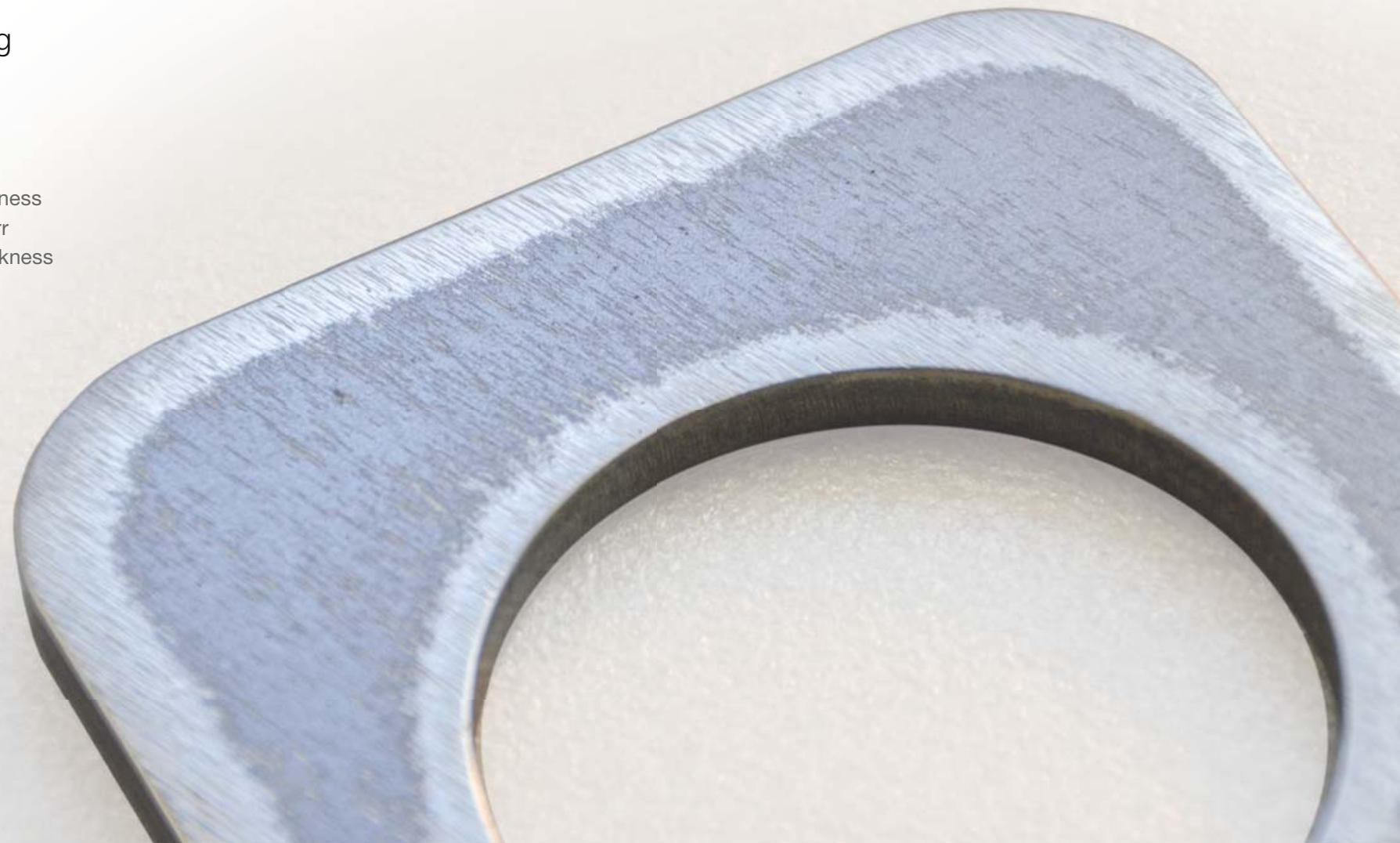


WEBER K combination unit

Increased flexibility through
the combination of multiple grinding
systems

Plates of different thickness are cut by means of different procedures and with different cutting parameters. Furthermore, plates of different thickness have different characteristics, which influence burr formation. The thicker a plate, the greater the thickness differences after cutting, due to warping and burr formation.

WEBER offers the solution to this problem. The advantages offered by a flexible grinding beam and the performance of a grinding roller – optimised and combined in one grinding station – always yield perfect results in a WEBER PT grinding machine.





Quality “Made in Germany”

Our company, rich in tradition, can look back on over 100 years of grinding machine manufacturing.

The WEBER machine works are synonymous with innovation and high-quality machine construction.



Hans Weber
Maschinenfabrik GmbH
Bamberger Str. 20
D-96317 Kronach
Phone: +49 (0)9261 409-0
Fax: +49 (0)9261 409-399
Email: info@hansweber.de
www.hansweber.de

WEBER