COMPACT CATEGORY

WEBER TTSC
WEBER PT compact

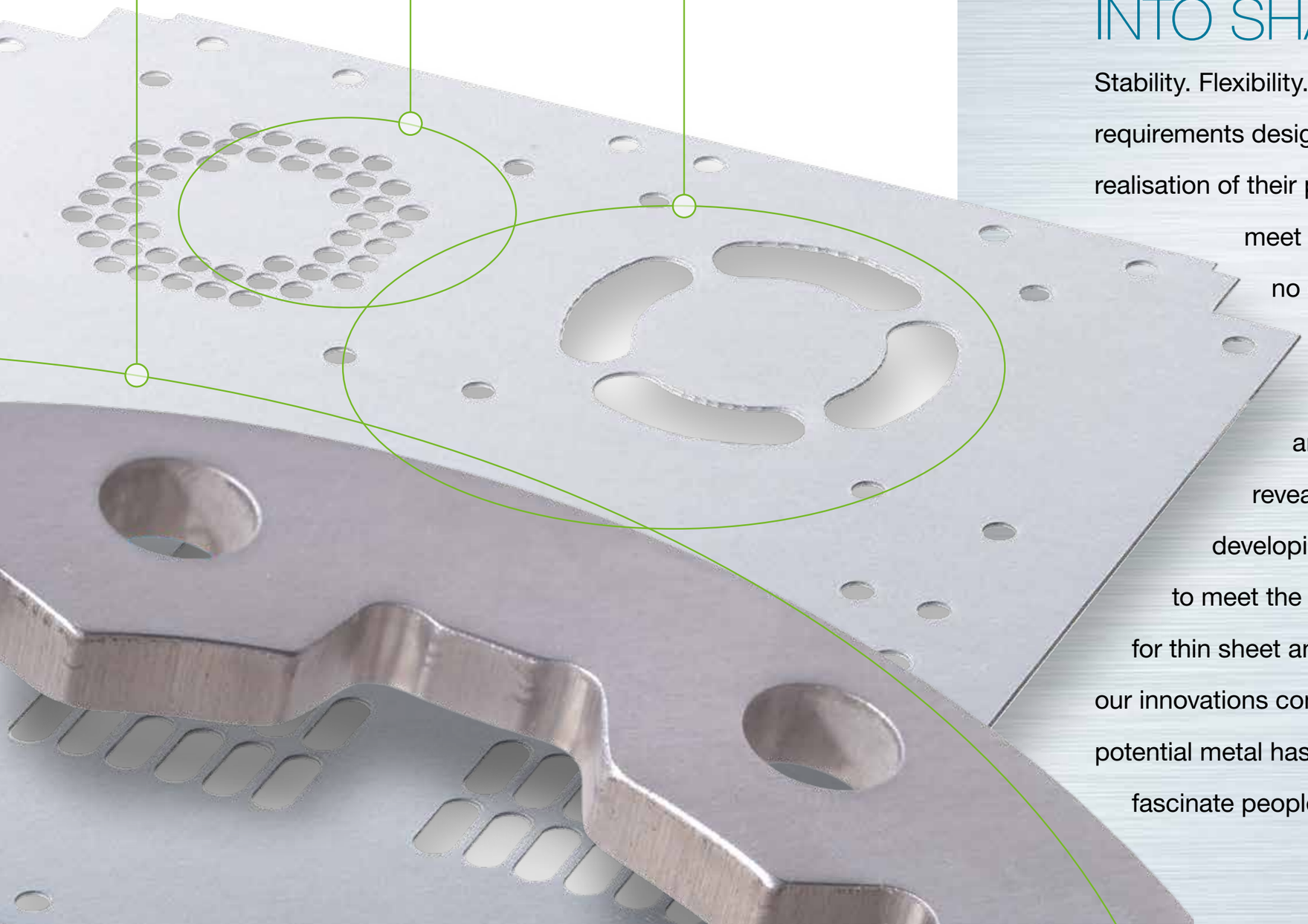
Grinding, rounding, deburring and
descaling of thin sheets and heavy plates

WEBER

1913
WEBER works according to a 100-year-old tradition and experience in building grinding machines

1955
For over 60 years, WEBER has been producing wide-belt grinding machines

2018
These days, WEBER sets new standards in the field of grinding technology with multiple model ranges



GETTING METAL INTO SHAPE.

Stability. Flexibility. Functionality. Regardless of the requirements designers and engineers may 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 tools offer every method of metal machining. A sophisticated quick-change system saves time and money.

Through tradition and innovative energy, WEBER has developed into one of the leading providers of grinding machines. Our name has become a symbol of German engineering worldwide – and has long become an exemplary representation of the quality mark “Made in Germany”.

The “Eco Drive”, i.e. motors with an increased efficiency class, increase the energy efficiency of our products. Through this and other technological improvements, WEBER has reached a top position in the area of responsible use of resources.

The future, today – at WEBER

“Maximum efficiency, maximum quality”

Traditionally, WEBER grinding machines are characterised by their uniquely high quality. The new WEBER machine design goes one step further: Extensive modularity, maximum energy competence and complete industrial quality are our premises. These aims were thoroughly implemented for our deburring machines **WEBER TTSC** and **WEBER PT compact**.

WEBER modularity

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

WEBER: A tradition of quality

What can our customers expect from a German machine manufacturer? Quality - that goes without saying. And reliability. But for WEBER “Made in Germany” means much more. For our company, this certificate is a promise to our customers. Every single WEBER grinding machine was developed and manufactured in Germany. After delivery, the WEBER service department ensures problem-free commissioning and long-term production efficiency.

WEBER Green Technology

A responsible utilisation of resources is one of our greatest challenges today. WEBER tries to optimise the efficiency of materials in all areas of grinding technology. For example: WEBER DR planetary head technology ensures an even wear of tools and lowers operating costs significantly.

WEBER TTSC | Deburring machine

WEBER’s small-but-mighty-model. For deburring, rounding, descaling and surface grinding with a dry grinding procedure

The **TTSC** model range is the **most compact** of all WEBER grinding machines, equipped with a **variable operating** height. Different machining methods up to three machining stations can simply be combined with each other for deburring, rounding, descaling and surface grinding.

The inner life of the TTSC: Up to three grinding stations are offered in several combinations.

Technical data

600 mm

1100 mm

1350 mm

1 to 3 grinding stations

- **Working widths 600, 1100 und 1350 mm**
- **Working height 800–900 mm (variable)**
- **Version with 1 to 3 grinding stations**
- **Workpiece thickness 0.8–100 mm**
- **Infinitely variable feed speed**
- **Grinding belt length 1900 mm**
- **Grinding belt drive up to 11 kW**
- **“i-Touch” controller**

WEBER GRINDING TECHNOLOGY

- **GD grinding roller**
- **DR planetary head**
- **MRB multi-rotation brush**
- **“i-Touch” controller**

WEBER PT compact | Deburring machine

WEBER's compact model.
For deburring, rounding, descaling and surface grinding with a dry grinding procedure

The special model **PT compact** provides sophisticated WEBER grinding technology as a standardised package at an attractive price. The **PT compact** guarantees perfect grinding results and meets even the most stringent craftsmanship demands.

WEBER PT compact – advantages at a glance:

- **New modern design**
- **Particularly compact and space-saving dimensions containing the technology of large industrial machines**
- **Optimised operating structure through WEBER "i-Touch" with its faster and more easily accessible operating panel**
- **Very easy accessibility for maintenance**

Technical data

1100 mm

1350 mm

1 to 2 grinding stations

- **Operating widths 1100, 1350 mm**
- **Operating height 900 mm**
- **Version with 1 to 2 grinding stations**
- **Workpiece thickness 0.3–100 mm**
- **Infinitely adjustable feed speed**
- **Grinding belt length 2150 mm**
- **Grinding belt drive up to 24 kW**
- **Siemens Multi Panel TP900 Comfort**
- **"i-Touch" controller**

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 DR Planetary Head

All-round edge machining across the entire width

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.

DR planetary head P2
WEBER uses its P2 and P6 planetary head technology for all-round edge machining with cup brushes. In this process, several rotating brushes arranged in groups are given an additional turning motion. This means that the brushes work at the ideal angle on the workpiece. In the patented WEBER solution, the tools of adjacent heads overlap in a way that ensures that there are no gaps during machining. The compact design P2 decreases the space requirements significantly, allowing for problem-free combination with other machining stations.

DR planetary head P6
As an alternative to the compact design P2, we at WEBER have also designed a two-row arrangement in which each tool carrier is equipped with six brushes.

WEBER MRB Brush System

The ideal addition for perfect edge machining

When round brushes are used, several rotating heads are also arranged next to each other. The meshing of the brushes during the combing procedure and two brushes per head create even machining results along the entire operating width. The compact design makes it easy to combine the brush head with other WEBER grinding technologies. This arrangement works perfectly for any material thickness starting from one millimetre.

WEBER GD Grinding Roller

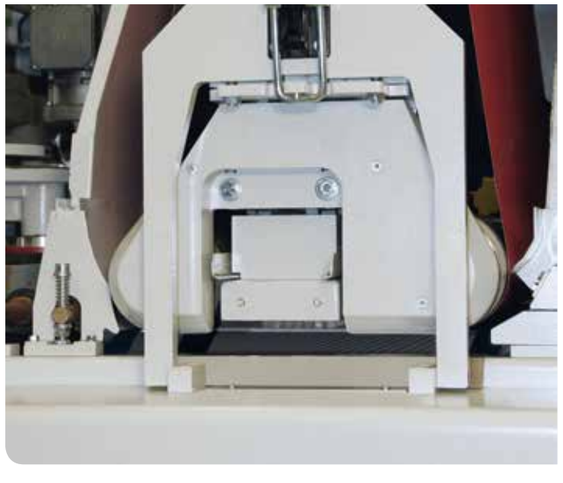
Perfect deburring and surface finishing

WEBER uses rubber-coated grinding rollers for surface finishing and deburring. The grinding pressure is generated by lowering the roller in relation to the set workpiece thickness. When the roller approaches the workpiece, the rubber coating of the roller is pushed upwards. The reset force of the rubber coating creates the necessary grinding force. Grinding rollers are available with different diameters and rubber hardness and can be adapted to all parts to be ground.

WEBER STC bolt grinding beam

Uniform 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. 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 generates a stronger impact on all edges without creating secondary burrs.



WEBER K Combination unit

Pre- and finish grinding on a single grinding station

Plates of different thickness are cut by means of different procedures and with different cutting parameters. 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 have been optimised and combined in one grinding station.

Technologies for perfect edge and surface finishing

WEBER brush technology

Perfect division technology for round and cup brushes

Regardless of whether you are using the compact planetary head P2, double-row planetary head P6 or the multi-rotation brush MRB: WEBER‘s sophisticated brush technology creates the best conditions for a perfect edge quality.

WEBER tool technology

The ideal brush options for any 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.

Simple and intuitive

WEBER control

With optimised operating structure

By default, WEBER grinding and deburring machines are 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.

WEBER SMART CONTROL

WEBER Smart Control

The intelligent control system for grinding and brushing

WEBER I-TOUCH

WEBER “i-Touch”

Simple and perfect control and navigation

WEBER results

Results you can be proud of

Before

Lasered, punched and nibbled parts before the grinding process: The burrs are very pronounced. WEBER grinding and brush systems reach all points - even on highly complex parts.

After

After machining with a WEBER grinding machine: All burrs have been removed, even drill holes, rim holes and other hard-to-reach spots have been machined to perfection.

Before

Flame and plasma cutting often creates strong burrs and scales which are hard to remove.

After

With WEBER grinding technology, materials of any size and up to 120 mm thickness can be ground perfectly and are then ready for problem-free processing.

WEBER support

More than just grinding machines

WEBER technical centre

Presentations and customer training at our own technical centre

All WEBER grinding machines are developed and manufactured in Kronach. For the development of new technologies, we at WEBER trust only our own specialists. We provide our customers with our in-house technical centre where we test innovations, develop them further and finally make them ready for their market launch. Even after delivery of a machine, the WEBER after-sales service ensures problem-free commissioning and long-term production efficiency.

WEBER consulting and support

Our focus is on our customers

Our customers play the most important part in our consultation, installation and support services. Thanks to our close cooperative contact with our customers, we can make their requests and requirements the focus of all new developments. As a result we can provide our customers in various industries with grinding machines which meet the highest demands on quality, performance and efficiency.

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.

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