

WEBER KSN Automatic sanding machine

Wood, veneer, lacquer sanding and texturing
in a new dimension.



WEBER

1913

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

1955

For over 50 years, WEBER has been producing drum sanders

2015

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

WOOD IS OUR PASSION.

New materials are constantly being used in furniture, interior design and in exhibition stand construction. And yet, the aesthetic fascination of wood is timeless. Based on decades of experience and continual innovation, we develop our automatic sanding machines to meet the highest standards. This is the best prerequisite for ensuring that the living material wood, in all its diverse varieties, will delight after processing – as the result of efficient and resource-conserving production.

QUALITY IS OUR BUSINESS.

Quality is common practice at WEBER. It is evident in the overall concept of the sanding machines, the intelligent solutions and the numerous patented details, which always have the same result: perfectly sanded surfaces.

Future – right now at WEBER's “High efficiency, more quality”

Sanding machines made by WEBER are characterized by the highest quality level possible – this is our tradition. The new design of WEBER machines goes one step further: comprehensive modular design, maximum energy efficiency and high industrial quality are our top priorities. These targets have been implemented consistently in the **WEBER KSN** automatic sanding machine.



From solid wood to high-gloss finish – WEBER satisfies the most exacting of requirements with regard to wood, veneer and lacquer sanding.



WEBER is a member of “Blue Competence”, an initiative launched by the VDMA (Verband Deutscher Maschinen- und Anlagenbau) www.bluecompetence.net



Enhanced efficiency thanks to the recently developed sanding dust evacuation system. Optimized routing of the air flow reduces the extraction power required by over one-third. In conjunction with additional technical features, WEBER is a frontrunner regarding conscientious handling of resources.

WEBER modularity

Joiners, panel manufacturers and the furniture industry have very different needs. New materials and new designs often demand new manufacturing processes. WEBER has a convincing answer to these continuously varying requirements. Thanks to the consistently modular design of the machines, WEBER always provides the appropriate solution to your problem: perfectly sanded surfaces.

WEBER maximum energy efficiency

WEBER fulfil these requirements in both electrical and mechanical areas. The sanding belt drives made by WEBER are equipped with motors of enhanced efficiency, the main drives featuring “Eco Drive”. Workpiece cleaning and sanding belt blow-off, both controlled by the workpiece concerned, help save expensive compressed air.

WEBER Green Technology

Today, one of the biggest challenges is to use resources conscientiously. Thus, WEBER tries to optimize material efficiency in all fields of sanding technology. For example: CBF sanding technology reduces sanding belt use thanks to enhanced service life, in conjunction with demanding sanding jobs.



Newly designed WEBER sanding technology

WEBER KSN

Automatic sanding machine for wood sanding, veneer sanding and lacquer sanding

The **WEBER KSN** series is a **completely redesigned automatic sanding machine** for wood sanding, veneer sanding and lacquer sanding for artisans and industry. Up to 4 sanding stations allow for **all machining variations**. All the WEBER sanding and brushing stations can be installed in any order, to suit requirements.

WEBER KSN – 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 sanding belt length**
- **Lateral extending planetary head unit for improved integration into production lines**
- **Modular design permits arrangement of sanding stations in any order, to suit requirements**
- **Improved accessibility for maintenance work**
- **High quality industrial engineering**

Technical data

1350 mm

1600 mm



1 to 4 sanding stations

- **Operating widths 1350 and 1600 mm**
- **Version with 1 to 4 sanding stations**
- **Calibrating roller drive up to 24 kW**
- **Sanding belt length 2620 mm**
- **Sanding belt drive with frequency control**
- **Segmented platen ISA/ISD**
- **Siemens Touch Panel TP 900 comfort**
- **“i-Touch” controller**
- **Flexible arrangement of sanding stations**



WEBER KSN

WEBER SANDING TECHNOLOGY

- **Contact roller**
- **Cross belt**
- **Combined station**
- **Sanding pad station**
- **CBF version**
- **“X-Schliff”**
- **Planetary head**
- **Texturing brush**



Mature industrial technology in a new dimension



WEBER KSN Design

Visually and functionally optimized

The design of the **WEBER KSN** demonstrates a new wood sanding dimension – not only visually. Thanks to uncompromisingly clean lines and ergonomically well-designed, the **WEBER KSN** is one of the most modern automatic sanding machines on the market.

Due to the angled corner positioning, the operation terminal permits better and faster access; all connections can be installed systematically from the top. Unimpeded vision of the machining stations is possible thanks to the large vision panel. Access to all electronic and mechanical parts assists maintenance considerably.

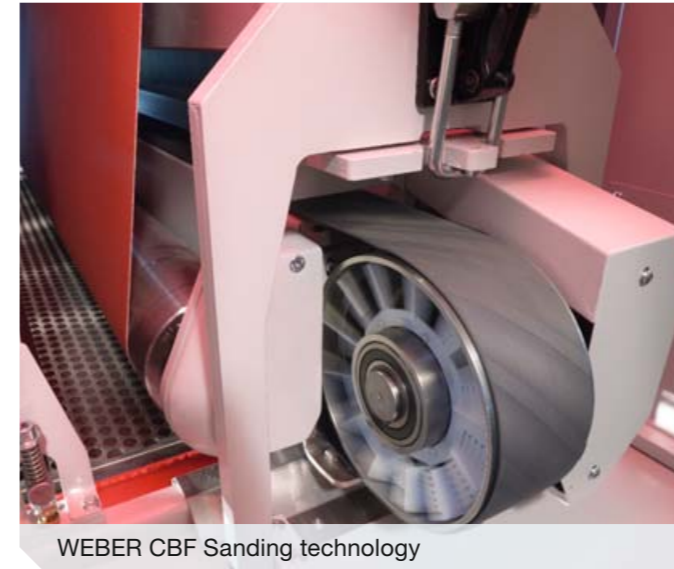


The ergonomic claim of **WEBER KSN** is especially proved by the sophisticated tooling technology. The modular system permits arrangement of sanding stations in random order. Thanks to an elaborate quick-release system, tool change can be effected in just a few movements by one person alone. This in turn saves time and money.



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

As a standard, the **WEBER KSN** Automatic sanding machine is equipped with a high-quality 9" or 12" touch operating terminal with colour mode. This is based on the Siemens control system. Due to the new graphic 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 CBF Sanding technology

WEBER KSN Machining stations

Can be installed in random order

The **WEBER KSN** can be equipped with up to 4 machining stations. To this effect, the sanding stations can be arranged to the client's choice. In addition to wide belt, cross sanding and X sanding “X-Schliff”, it goes without saying that the WEBER CBF sanding technology, the ISA/ISD segmented platen and the complete WEBER brush technology can be installed as well.

WEBER CBF Sanding technology

A sanded surface free of traces of oscillation is an outstanding quality benchmark. For WEBER, CBF technology has provided the solution. It works using a pressurized slat belt which moves transversely within the wide belt station. The pressurized slats interrupt engagement of the abrasive grains, thus avoiding undesired oscillating stress marks by the sanding belt. The result is a smooth and even surface. The slat belt moves without control system, is subject to the full tolerance compensation of the segmented platen and to uniform wear and can be replaced at low cost.



WEBER ISA/ISD Segmented platen

WEBER ISA/ISD Segmented platen

To receive a good sanding result, a reliable segmented platen technology is required which adapts the sanding pressure applied via individual segments to the workpiece size by means of electronic control. In the patented WEBER ISA design, the pressure pads and sanding slats form an integral assembly which does not require any maintenance and is insensitive to soiling.



WEBER P2 Planetary head

WEBER P2 Planetary head

Regarding the planetary head, WEBER sets new quality standards for sanding. This patented unit ensures a perfect surface independently of the direction of the wood fibres or the shape of the workpiece. It breaks all edges uniformly during its passage. It can also be used to machine 3D surfaces, radii and profiles. During the subsequent lacquering process, the wood fibres practically no longer rise. This helps to save lacquer and to improve the surface quality.

SANDING TECHNOLOGY TO MEET THE HIGHEST STANDARDS.

Whether wide belt cross, or “X-Schliff”:

WEBER meets the toughest requirements for

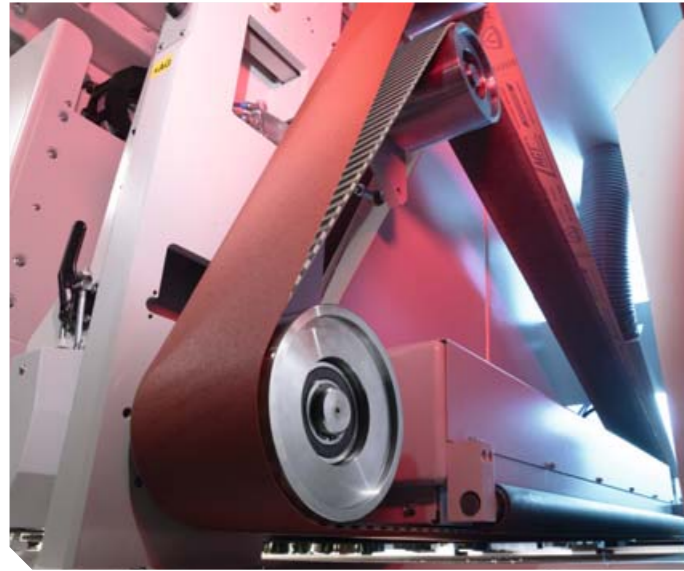
immaculate surfaces with up to 4 sanding stations

and the WEBER CBF sanding technology.





Complete WEBER Sanding technology for immaculate surfaces



WEBER Cross sanding

For surfaces with reduced fibres

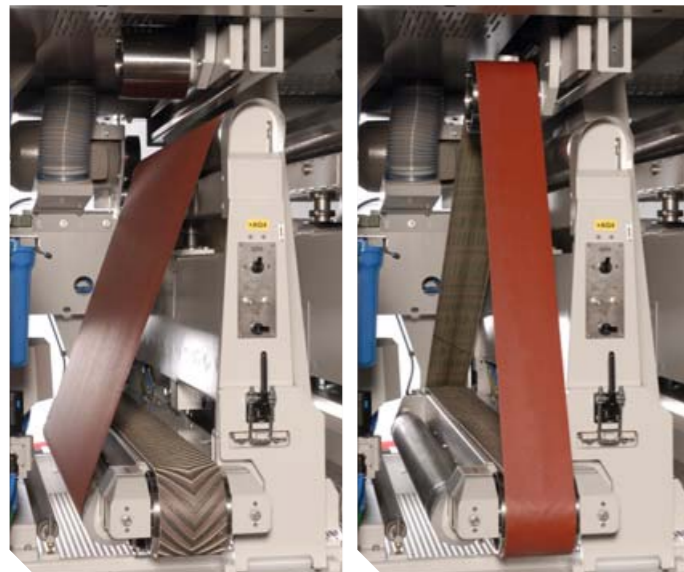
Automatic cross sanding machines for the skilled trades have a long tradition at WEBER. Cross sanding means that the first sanding is performed crosswise to the feed direction and subsequent finish sanding in lengthwise direction. The crisscrossing cutting motion offers advantages over multiple inclined or lengthwise sanding steps. The cross belt operates at a 90° angle perpendicular to the grain. As a result, the fibrous surface texture, which normally runs lengthwise, is divided into small sections and subsequent removal is simplified. This removal is subsequently carried out using one or more wide sanding belts. Due to the crisscrossing sanding directions, considerably fewer and shorter fibres remain on the surface.



Automatic workpiece thickness measurement

For even more efficient operation

The high quality of WEBER sanding technology is beyond question. But even more is demanded of an efficient and economically profitable sanding machine. Thus, the **WEBER KSN** convinces right down to the minutest detail with sophisticated solutions exceeding sanding alone.



WEBER "X-Schliff"

All sanding processes in one station

Flexibility is becoming more and more important. For this reason, WEBER "X-Schliff" offers all the sanding processes combined in a single station. The sanding station can be easily converted from wide belt to cross belt sanding. Thus, sanding processes can alternate between calibration, longitudinal or cross sanding or using WEBER CBF sanding technology. As today's requirements for various surfaces and lacquers call for different sequences of crosswise and lengthwise sanding, this new technology is able to respond to it. It enables lengthwise or crosswise final sanding, thus saving an additional machining station.



WEBER ES Workpiece blow-off unit

Targeted and energy-saving dedusting

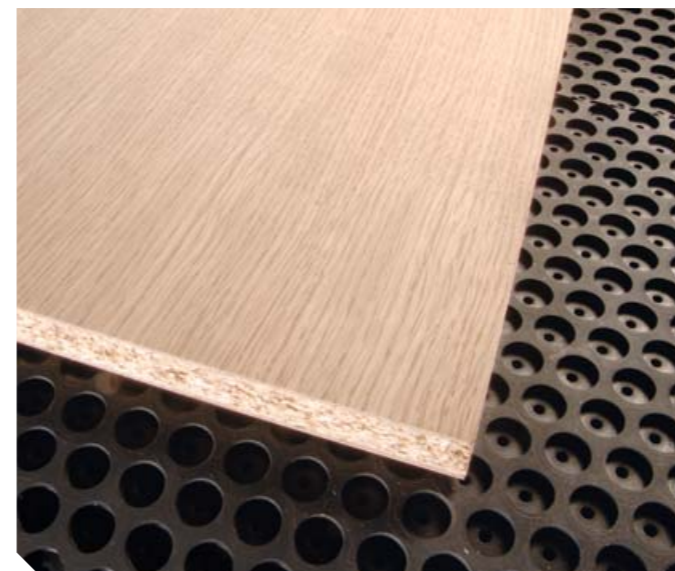
After sanding, the surfaces need dust removal. Mechanical solutions, such as dust brushes, cannot manage the work piece tolerances to a sufficient extent. The WEBER ES blow-off unit solves this task in a straightforward and elegant fashion. The workpieces are blown off by self-driven compressed-air propellers arranged side by side which are only activated in the direct vicinity of the workpieces. This helps minimize compressed-air consumption.



WEBER Texturing brushes

For textured surfaces

Texturing brushes are used for texturing wood surfaces. The brushes remove softer areas from the wood surface and a ridged surface emerges. For coarse textures metal wire brushes are used, while brushes with abrasive plastic bristles or sanding brushes are used for subsequent smoothing.



WEBER Vacuum blower

For precisely positioned workpiece transport

To ensure better and safer transport of the workpieces, the **WEBER KSN** has been equipped with a vacuum blower. To this effect, the conveyor belt and the transport table are perforated. A high-capacity blower produces a vacuum in the table body and draws the workpieces down to the conveyor belt. This enhances adhesion on the conveyor belt and the workpieces are transported through the machine precisely in the required position.

BRUSHING TECHNOLOGY FOR PERFECT FINISHES.

Whether planetary head, texturing brush or round brush: with its sophisticated brush technology, WEBER satisfies the best prerequisites for a flawless surface, also with the KSN Automatic sanding machine.



Quality “Made in Germany”

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

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



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