



Reliability by proven design

KFA

Automatic Contour Surface Sander



The perfect surface sanding machine: KFA Automatic Contour Surface

The Automatic Contour Surface Sander KFA

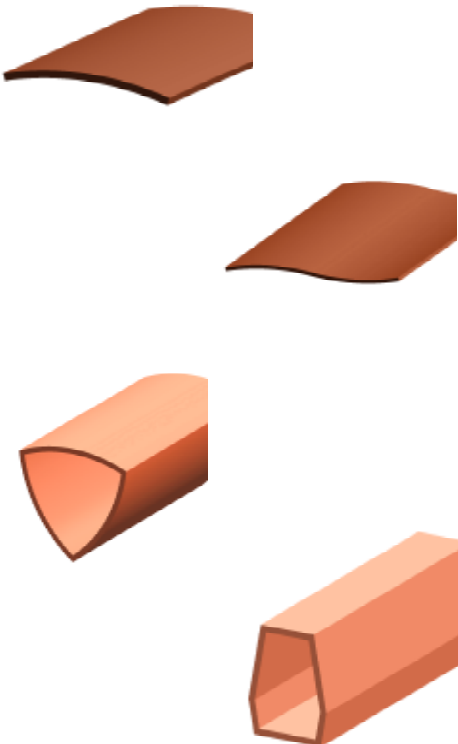
This specialised sanding machine utilises one cross belt sanding unit to process convex or concave work pieces.

The application of wood surface finishing and lacquer sanding is carried out by the Heesemann programmable controlled CSD® segmented pressure beam to achieve accuracy.

Those allowing the abrasive sanding unit to follow the contour.

The operation is managed by an industrial PC with graphical touch screen.

Workpiece examples:



A CNC controlled swivel /turning device can be installed optionally for bigger shaped workpieces.

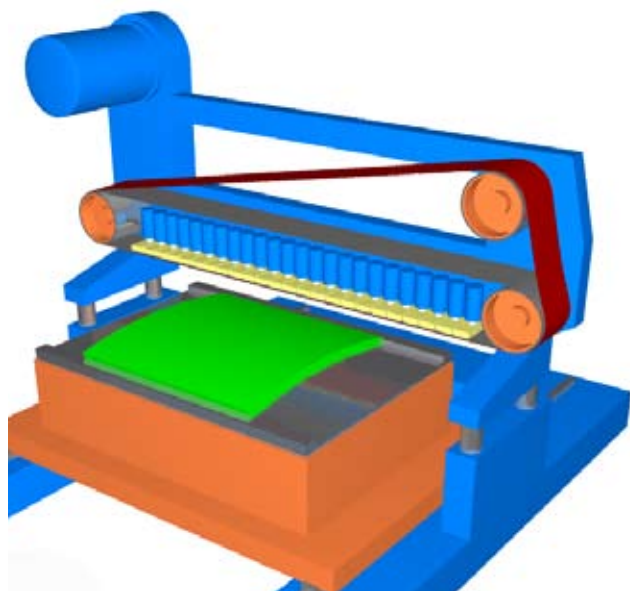
- for doors with a curvature of 90°
- for speaker boxes or similar shapes



Central control industrial PC



Slice de
vacuum





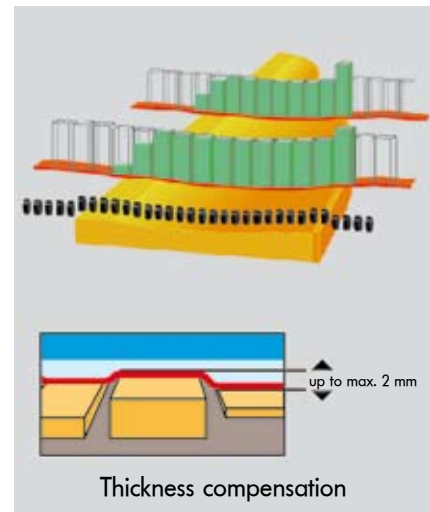
Device with
hold down



The maintenance free CSD[®]
magnetic pressure beam

Computer controlled selective pressure control

A technical revolution in pressure beams. The pressure strength of each pressure beam element is continuously adapted to the workpiece shape.



The maintenance free magnetic pressure beam:

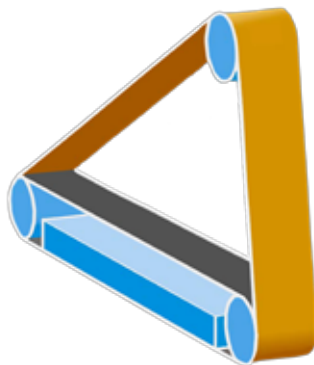
Electronically controlled pressure, thus no sticking or dirt as with pneumatic elements. Completely capsulated, hence no dirt due to sanding dust.

Apportioning of the sanding pressure is vital for a controlled stock removal. With the computer controlled CSD[®] magnetic pressure beam system the sanding pressure on every pressure beam element can be infinitely varied in milliseconds. Especially with asymmetric and round parts the unique CSD[®] system makes a fine adaptation of the pressure in the corner area possible. If the corners are executed differently, i.e. through a one sided massive deflector the pressure can also be controlled asymmetrically. A fine roller sensing at the entry ensures an exact pressure measurement. The elastic pressure beam causes a compensation of workpiece tolerances. Up to 2 mm of difference in strength within one workpiece or from one workpiece to another can be balanced.



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The feed axis and the vertical axis of the sanding unit are line controlled in relation to each other	
Feed speed:	infinitely variable
Cross sanding unit	
Sanding belt dimensions:	5.400 x 150 mm
Drive Rating:	15 kW frequency controlled - option servo controlled including integration of line controls
Sanding belt speed:	infinitely variable by frequency inverter
Height adjustment:	max. 100 mm - optional increase of opening on request
Max. workpiece width:	up to 800 mm

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The offer applies exclusively with regard to the machine equipment and technical design.



Production range for wood, lacquer and foil sanding

Cross sanding machines

Longitudinal sanding machines

Lacquer sanding machines

Veneer sheet sanding machines

Universal edge and profile sanding machines, NC and CNC controlled

CNC profile and surface sanding machines for 2D and 3D shaped parts



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