

FLAT GRINDING MACHINE MODEL FSM

High quality flat parts such as long or wide door plates, flat door decorative features and hinges made of brass or stainless steel can be flat finished economically on the SHL Flat Grinding Machine. A high grinding quality can be achieved without breaking the edges.

The path ways in length and width as well as the number of passes can be programmed on the machine control and NC-axis.

Each of the two belt grinding units has an electronically controlled and programmable frequency transformer for infinite variation of the spindle speeds and wide ranges.

The NC Z-axis is freely programmable to avoid dropping at the edges when travelling over the workpiece.

A digital display of the spindle speed permits exact and individual setting and adjusting of the required speed range.

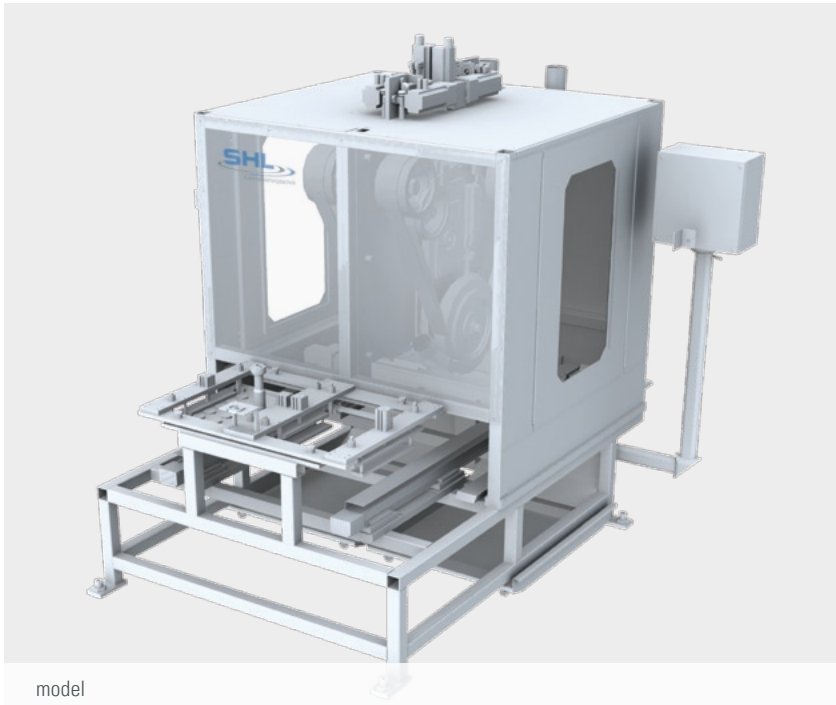
All belt grinding units have an automatic belt tensioning device. No manual retensioning is necessary when the belt length expands.

Special technical features

- Suction nozzle located directly at the contact disk.
- Double-box fines-catch tub on rollers.
- Traversable operating plate for optimal programming of the two belt grinding units.
- Freely positionable. Contact disk via servo axes.
- Automatic belt tensioning (tend/release) via pneumatic pressure control.
- Belt track tension control via adjustable pressure key.
- Magnetically locked machine doors with go no-go function.
- XY-surface portal with high pressure outward flow to prevent incoming dust.



MODEL FSM



model



operating panel



pallet removal device



machine - sideview

Technical data

Grinding Machines

Motor power:	2 * 4 kW
Spindle diameter:	2 * 35mm
Contact disk diameter:	2 * min. 250mm – max. 450mm
Grinding belt width:	2 * min. 50mm – max. 100mm
Contact disk accomodation:	2 * 0-125mm Z – servo axes (programmable)
Grinding belt tensioning:	Automatic (pneumatic control)
Belt track control:	Motor-driven adjustable via pressure keys
Suction connection:	2 * Ø 100mm
Suction power:	each 1700m ³ /h at Δp=-850Pa
Color:	Light gray RAL 7035

XY surface portal

Traverse in X (effective):	0 - max. 1450mm (sealing air) servo axis
Traverse in Y (effective):	0 - max. 650mm (sealing air) servo axis
Load station (pallet):	300*445mm; 2*positioning pin
Maximum pallet size (optional):	390*450mm
Color:	anthracite gray RAL7016

Pallet removal device for automatic loading (optional)

Pallet station 1 pneumatically operated:	pallet size 390*450mm
Pallet station 2 pneumatically operated:	pallet size 390*450mm

Machine dimensions

Dimensions (length*width*height):	(2200*1600*2300) mm
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