

A detailed view of a long belt grinding machine, model M2S97. The machine features a long, narrow grinding table with a blue frame and a white top. A large, circular grinding wheel is mounted on the right side of the table. The machine is equipped with various adjustment mechanisms, including rollers and guides, to ensure precise grinding. A control panel with several buttons and a red emergency stop is visible on the right side of the machine. The overall design is industrial and functional, suitable for precision grinding of long workpieces.

## Long belt grinding machine M2S97

# Basic configuration

With two grinding belts guided on a triangular path. This provides an open working area that makes the operator's task easier, especially when using hand grinding pads.

The basic configuration has a flat machine table. Heavy-duty machine configuration, equipped as standard with electric table height adjustment via two synchronously controlled gear motors.



Chains for table height adjustment built into the machine stand.



Grinding unit with quick change system for contact rollers and grinding pads.



Right-hand machine stand with offset, switches and pressure regulator for pneumatic belt tensioning. Operated from the front.

# Optional tables

To cover as many application situations as possible.



Flat machine table as an add-on table. The 3D handling device pivoted downwards and stored underneath.

Second machine table with 3D handling device integrated into the U-shaped table frame and storage rack positioned behind the machine for changing the machine tables.



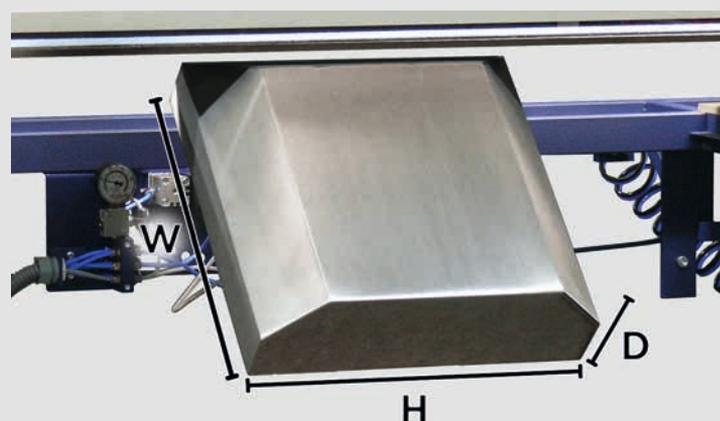
DUO table as 3-axis table with integrated 3D handling device for pivoting and rotating the workpieces.

The device is mounted in the centre of the table beneath the frame insert. The rotating and pivoting axes are unlocked pneumatically via foot switches. The axes are moved manually.

## Technical specifications:

(depending on the selected machine configuration)

Extension with DUO table (extra charge)		
As a flat table:		
Max. workpiece weight	daN	100
3D handling device (in the DUO table)		
Min. workpiece dims. WxHxD	mm	280x280x150
Max. workpiece dims.	mm	750x750x500
Max. workpiece weight	kg	50



# Automatic

For automatic grinding of flat workpieces.



This automatic machine is controlled by a Siemens PLC. The machine has various grinding programs for different grinding applications.



The grinding unit is mounted on a stable guide and is driven via a timing belt. The contact roller automatically moves between the two grinding belts, depending on the selected grinding program.

The control unit for setting the parameters and operating the machine is designed as a touch screen and mounted on a pivoting arm.



# Special equipment

In addition to the basic equipment, we also offer practical accessories for individual applications.



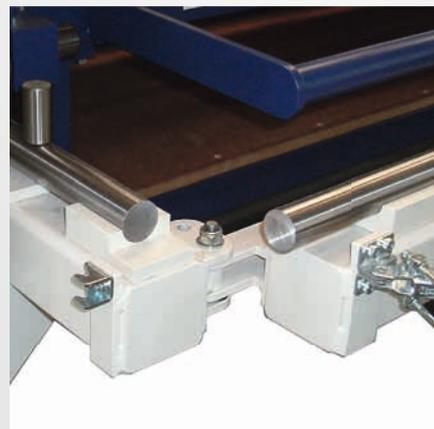
Grinding pad with ball-type quick fastener.



Aluminium cantilever arms to hold box-shaped workpieces.



Pneumatically operated workpiece clamping and turning device mounted on the machine table.



Retractable table guide rails.



Tube grinding assembly consisting of a lateral grinding belt, with drive and idle rollers.



3D handling unit can be moved on guides from the centre to the right side of the table.

# Special equipment

The basic machine body or the table guide can also be modified on request.



Machine stand with higher offset.



Base to increase the working height.

On request the machine is also available in grinding lengths of 3000, 4000, 5000 mm.



Supports for table guide rails for table loads up to 400 daN.

## Technical specifications:

(depending on the selected machine configuration)

Width (depth)	mm	3100
Height	mm	2200
Length	mm	4900
Weight	kg	2200
Grinding belt width	mm	100, 150
Grinding belt length	mm	9000
Number of grinding belts	Stk.	2
Usable grinding length	mm	2500
Usable grinding width	mm	1250
Table height adjustment	mm	640
Max. workpiece weight	daN	200
Offset L+R = HxD	mm	80x600
Belt drive	kW	5,5
Belt speed, adjustable	m/s	7-25
Operating voltage	V/Hz	400/50
Operating pressure	bar	6
Exhaust nozzle Ø	mm	200
Min. extraction velocity	m/s	25
Min. extraction volume	m <sup>3</sup> /s	3400

All illustrations may show special accessories which are available at extra cost.

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