

# MAZAK

## H 500 / 50

Horizontal machining center



Manufacturer	MAZAK
Model	H 500
Manufacture year	1988
Control	MAZATROL 32
Machine number	78559
Travels	X – 710 mm / Y – 650 mm / Z – 650 mm

## TECHNICAL DATA

### Machine

Size of the pallet table	500 x 500 mm
Table travel to the left and to the right (X-axis)	710 mm
Spindle head travel up and down (Y-axis)	650 mm
Column travel - longitudinal (Z-axis)	650 mm
Distance spindle middle – table surface	50 – 700 mm
Distance spindle nose – working table middle	150 – 800 mm
Table load capacity (equally distributed)	max. 1.000 kg
Drilling power in C45	Ø 50 mm
Threaded bores power in C45	M45 x 4 mm
Milling power	350 cm <sup>3</sup>
Spindle holder	ISO 50
Spindle speed range 3-steps	22 – 5.000 min <sup>-1</sup>
Main drive variable three-phase motor	15 kW=30 min DC / 11 kW=constant
Max. torque	614 Nm

### Pallet

Pallet table	500 x 500 mm
Pallet surface with T-grooves (size x distance x number)	18 mm x 100 mm x 5
Indexing increment	1 degree, 360 positions
Indexing time	4,5 s / 90°
Speed	10 min <sup>-1</sup>
Pallet height from the ground	1.000 mm

### Automatic tool changer ATC

Tool magazine capacity	80 tools
Direct tool selection	directional logic
Tool holder steep taper	ISO 50

With empty adjacent magazine positions	260 mm
Max. workpiece weight (incl. tool holder and pull studs)	20 / 27 kg
Max. tool length (from contact surface)	400 mm
Tool changing time (chip to chip)	9 s

### Connection values

Tension	380 V ± 10%
Frequency	50 Hz
Total connection	49,1 kVA

### Coolant device

Tank capacity	300 l
Pump power	24 l/min (50 Hz)
Motor	750 W
Pressure	8,5 bar (50 Hz)

### Servo drives

#### *X-axis*

Ball screw	Ø 50 mm / Pitch 12 mm
Max. feed force (180%) / continuous feed force	1.700 kg / 800 kg
Rapid traverse / Feed	24 m/min / 1 – 8.000 mm/min
Guideway	linear guidance

#### *Y-axis*

Ball screw	Ø 50 mm / Pitch 12 mm
Max. feed force / continuous feed force	1.700 kg / 900 kg
Rapid traverse / Feed	24 m/min / 1 – 8.000 mm/min
Guideway	linear guidance

#### *Z-axis*

Ball screw	Ø 50 mm / Pitch 12 mm
Max. feed force / continuous feed force	2.750 kg / 1.350 kg
Rapid traverse / Feed	24 m/min / 1 – 8.000 mm/min
Guideway	linear guidance

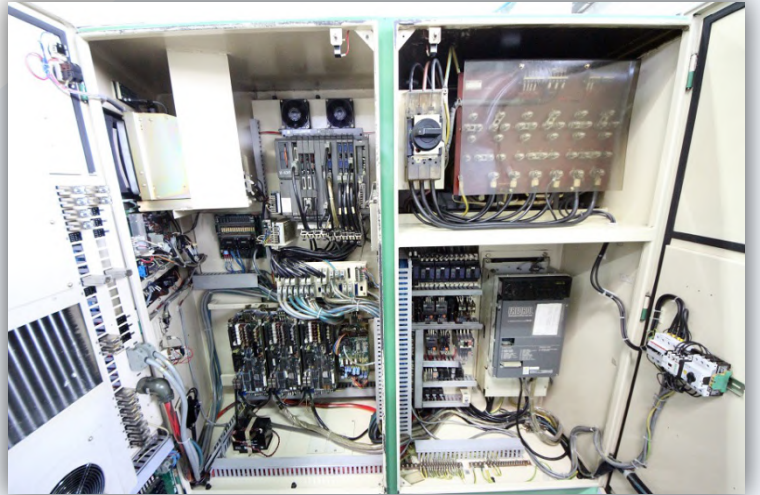
## EQUIPMENT

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- Complete electrical equipment for three-phase current 380 V / 50 Hz, Main motor: variable AC motor 15 kW / 20 PS = 30 min load      11 kW / 15 PS = continuous load
- 32-bit control MAZATROL M-32 incl. background programming
- Monitoring System B with following functions:
  1. MMS measuring system with „Renishaw“ sensor
  2. matching components & display for MMS/TBR
- Automatic workpiece length measuring system
- 2-slot pallet changer with 2 pallets with threaded bores
- Complete cooling system (750 W pump, 8,5 bar, 24 l/min) – Tank capacity 300 l
- Niagara coolant (1,5 kW pump, 2,5 bar, 150 l/min)
- Coolant through the spindle
- Coolant and chip protection with automatic front door
- Spindle coolant device
- Air blowing device
- Machine lighting
- Several spare parts
- User manual / Documentation

## MACHINE PICTURES

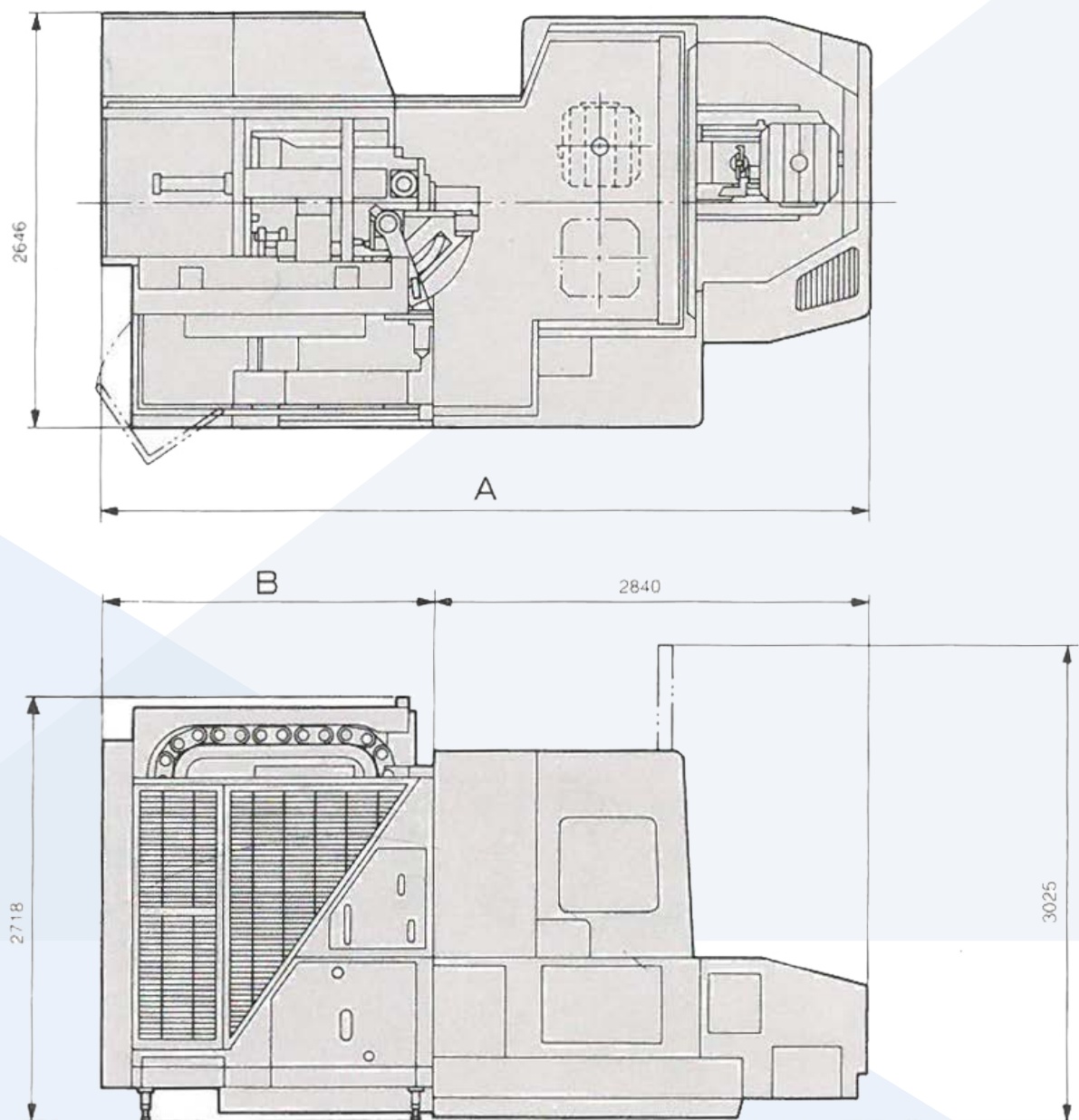




## SPACE REQUIREMENT

	A	B
80 WZ	6135	3295

Maß: mm



*Thank you very much for your interest*

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\*We do not guarantee the accuracy and completeness of these documents. We further do not assure any characteristics and qualities. The named machine, which is up for sale, is used.\*