



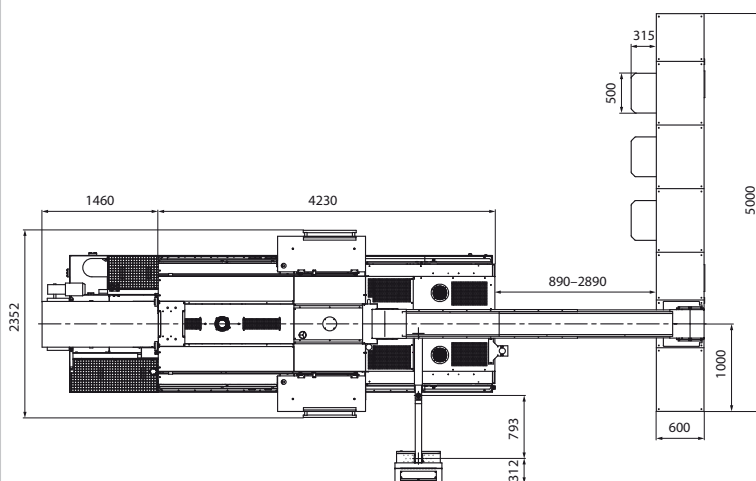
- High accuracy at mass and series production
- High thermal stability
- Rigidity comparable to cam-operated machines
- 8 independent AC drives of spindles
- Altogether 32 CNC controlled axes
- 30 additional CNC controlled axes for optional equipment control
- Two SINUMERIC 840D solution line control systems
- Own technological TMis software
- Large selection and flexibility of quick-change tool holder
- Hydraulically or pneumatically controlled auxiliary functions
- Machine conforms to the 89/392 EEC directives

STANDARD VERSION

- Spindle drum locking by a triad of rims with spur gearing
- Two SINUMERIK 840D solution line control systems
- 8 spindle motors
- 8 longitudinal slides
- 7 compound slides
- 1 cut-off slide
- 1 axis for spindle drum indexing
- Altogether 32 CNC controlled axes and 30 additional CNC controlled axes for optional equipment control
- SIMODRIVE motors and drive systems with continuous speed control from SIEMENS firm
- Hydraulically controlled bar clamping, bar feeding and bar stop in the 1st working position
- 3 stations back working slide (X8, Y8 axes)
- Y axis in stations 5 and 6
- Pick-up spindle with CNC controlled speed and pneumatically controlled collet clamping

OPTIONAL EQUIPMENT

- Further attachments for longitudinal machining
- Attachments for profiled holes
- Slide for machining from cut-off side (1 tool holder)
- Attachment for axial and radial drilling and for milling operations from cut-off slide
- Live tools with CNC controlled speed
- Bar stock feeding in the 5th station
- Manipulator for withdrawing of parts from pick-up spindle
- Large selection of swarf conveyor systems
- Large selection of high-pressure systems for tool cooling
- Large selection of attachments for drilling, reaming, milling, push-broaching, thread cutting and polygon machining



OPTIONS CNC

Options CNC (SO1 up to SO8 axes)

		max.
Standard torque	Nm	14
Increased torque	Nm	30

Slide for machining from cut-off side

1 tool (X8 axis)

		max.
Rapid traverse	m/min	15
Radial travel	mm	90
Force	N	2 900
Ball screw lead	mm	5

Drives of driven tools (ST1 up to ST8 axes)

		max.
Number at disposal		8
Max. speed	rpm – Nm	12 000–2,5
Max. torque	rpm – Nm	2 250–22

Attachments for profiled holes (U1 up to U7 axes)

In working positions		1 à 7
Rapid traverse	m/min	30
Force	N	2 500
Stroke	mm	340

Turning of outer polygons and milling of threads

Speed	rpm	4 500
Torque	Nm	11

System of quickly changeable tool holdem

CAPTO	C3, C4
KENNAMETAL	K32, K40

Bar capacity with collets Hainbuch SK 80 BZI

With automatic bar loader and turned bar end	mm	77
With automatic bar loader w/o turned bar end	mm	73
With stock reel	mm	67
Max. length of bar feeding	mm	200

Bar capacity with collets Wickman 2"5/8

With automatic bar loader and turned bar end	mm	77
With automatic bar loader w/o turned bar end	mm	73
With stock reel	mm	67
Max. length of bar feeding	mm	200

Spindles (SP1 up to SP8 axes)

		n o m .	max .
Pitch diameter of spindles	mm		480
Speed	rpm		2 500
Power output of spindle motor	kW	20	30
Total power of spindles	kW	160	240
Nominal torque on spindle (at 1 000 rpm)	Nm	191	

Spindle drum indexing time

Spindle indexing time by 1 position	s	1
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Frontal slides (W1 up to W7 and Z8 axes)

		max .
Number		8
Rapid traverse	m/min	30
Force	N	10 000
Travel	mm	340
Ball screw lead	mm	10

Compound slides (X1 up to X7 and Z1 up to Z6 axes)

		max .
Number		7
Rapid traverse (radial and axial)	m/min	15
Axial travel (Z1 up to Z7 axes)	mm	120
Axial force (Z1 up to Z7 axes)	N	3 700
Radial travel (X1 up to X7 axes)	mm	80
Radial force (X1 and X7 axes)	N	3 700
Ball screw lead	mm	5

Cut-off slide (U8 axis)

		max .
Rapid traverse	m/min	15
Force	N	2 900
Travel	mm	70
Ball screw lead	mm	5

Slide for machining from cut-off slide 3 tools (X8, Y8 axes)

Rapid traverse	m/min	15
X-axis radial travel	mm	95
Radial force	N	2 900
Y-axis travel	mm	110
Number of tools (fixed or live)		3
Length × Width × Height	mm	4230 × 2 170 × 2 352
Machine weight + el. cabinet	kg	17 000 + 1924

Description, illustrations and numerical data may not always correspond with the machine version.

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