



- High accuracy at mass and series production
- High thermal stability
- Rigidity comparable to cam-operated machine
- 6 independent AC drives for spindles
- Altogether 31 CNC controlled axes
- Double Pick-up spindle for machining from Cut-off side
- SINUMERIK 840 D CNC control system
- Own technological TMis software
- Large and flexible selection of quick-change tool holders
- Pneumatically and hydraulically controlled auxiliary functions
- Machine conforms to the EU 89/392 EEC directives

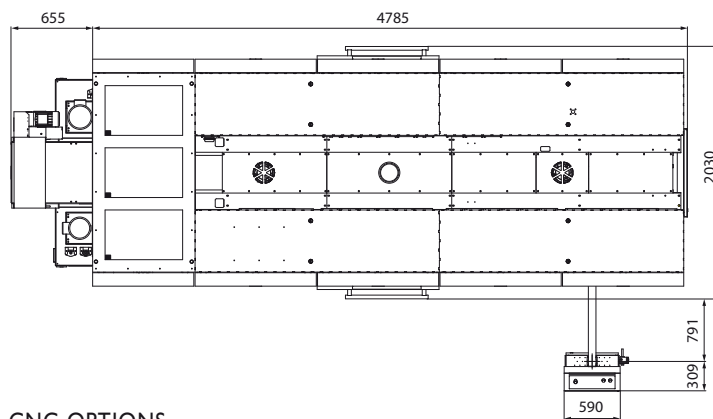
SPECIFICATIONS

STANDARD EQUIPMENT

- Spindles drum locking by means of 3 hirth type frontal rings
- CNC system model SINUMERIK 840D by SIEMENS for controlling:
 - 6 spindle motors
 - 6 frontal slides
 - 5 compound slides
 - 1 cut-off radial slide
 - 1 drum indexing system with bar feed at station
- Together 31 controlled axes
- Motors and drive systems model SIMODRIVE by SIEMENS with continuous speed ranges
- All auxiliary functions driven by air systems

OPTIONAL EQUIPMENT

- Pick-off spindle with CNC controlled and pneumatically controlled collet opening/clamping system
- Bar gripper at station 6
- Back-Machining slide for 2-axes machining (3 tool-holders)
- Other frontal attachments with CNC controlled RPM speed
- Y-axes at stations 2, 3, 4 and 5
- Double Pick-up spindle for machining from cut-off side
- 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



CNC OPTIONS

Frontal driven attachment (optional axes from S01 to S05) max.

Speed	rpm	4 000/9 000
Torque	Nm	14/ 6

PICK-UP spindle (axes Z6 and Z06)

Number		2
Pitch diameter (between PICK-UPS)	mm	150
Speed	rpm	6 000
Motor power	kW	4.1
Nominal torque on spindle at 1 000 rpm	Nm	20
Axial force (Z6 axe)	N	2 500
Fast traverse (Z6 axe)	m/min	30
Ball screw (Z6 axe)	mm	10
Ball screw (Z06 axe)	mm	25
Stroke (Z6 axe)	mm	120
Stroke (Z06 axe)	mm	495

Back-machining slide with radial and vertical movements (optional axes X6 and Y6) max.

Fast traverse	m/min	15
Radial stroke	mm	80
Force	N	3 500
Stroke Y-axis	mm	106
Number of tool holders		3
Driven tools		2

Driven attachments for compound slides

(optional axes from ST1 to ST5) max.

Number		5
Max. speed (2:1)	rpm	2 250
Relative torque	Nm	22
Max. speed (1:1)	rpm	4 500
Relative torque	Nm	11
Max. speed (1:2)	rpm	9 000
Relative torque	Nm	5.5

Bar capacity with collets SK32BZ1

With automatic bar loader and turned bar end	mm	max. ø 32
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Bar capacity with collets DIN 9039E

With automatic bar loader and turned bar end	mm	ø 26
Bar feed (with stock reel)	mm	190

CNC axes

Standard		31
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Spindle (SPI to SP6 axe)

	nom.	max.
Number		6
Pitch diameter (between PICK-UPS)	mm	300
Speed	rpm	6 000
Motor power (each spindle)	kW	7
Motor power (total)	kW	42
Nominal torque at 1 330 rpm	Nm	50

Spindle drum indexing time

Spindle indexing time by 1 position (60°)	s	0.4
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Frontal slides (standard axes from W1 to W5) max.

Number		5
Fast traverse	m/min	30
Force	N	2 200
Stroke	mm	250

Compound slides (standard axes from X1 to X5 and from Z1 to Z5) max.

Number		5
Radial and axial fast traverse	m/min	15
Axial stroke (axes from Z1 to Z5)	mm	120
Axial force (axes from Z1 to Z5)	N	2 900
Radial stroke (axes from X1 to X5)	mm	75
Radial force (axes from X1 to X5)	N	2 800

Cut-off slide (standard axe U6) max.

Fast traverse	m/min	15
Force	N	1 700
Stroke	mm	80

Dimensions

Length	mm	4 785
Width	mm	2 030
Height	mm	2 900
Mass	kg	10 500

Specifications and illustrations may not always correspond with the machine latest version.

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