

Technical data TMP

TMP

Working area

X-traverse range vertical	[mm]	2300 (2940) ²
X-traverse range horizontal	[mm]	2000 (2640) ²
Y-traverse range	[mm]	1400 (1600,1800) ²
Z-traverse range	[mm]	900

Machine table

Table width (dependent on Y-stroke)	[mm]	1100 (1350, 1500) ²
Table length	[mm]	approx. X-traverse
T-slots, reference slot H7	[mm]	18 H9
T-slots indexing	[mm]	160
Max. table load per table	[kg]	1500
Min. distance table - spindle nozzle vert.	[mm]	210
Min. distance table - spindle nozzle hor.	[mm]	310

CNC-rotary table

Rotary table		RTA 5TF (RTA 6TF)
Clamping surface	[mm]	∅ 1250 (1600)
Max. transport weight	[kg]	3000 (5000)
Accuracy measuring system	[arcsec]	± 3" (± 1")
Min. distance table - spindle nozzle vert.	[mm]	60
Min. distance table - spindle nozzle hor.	[mm]	160

Feed drive

Max. rapid traverse in X/Y/Z	[m/min]	30/30/25
Max. feed force	[N]	9000

Main spindle drive

Standard drive no. ¹		133 (DASK) ²
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Tool holding fixture

DIN 69871 A / DIN 69872 A		SK 50 (HSK A63) ²
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Tilting spindle head

Swivelling range B-axis		0 to -100°
Indexing		0,001° (interpolating)

Tool changer

Number of tool pockets standard		20
Optional expandable up to		90
Max. tool diameter	[mm]	110 (60) ²
By free adjacent pockets	[mm]	180
Max. tool length	[mm]	400 (250) ²
Tool change time approx.	[s]	6

Accuracy

Positioning accuracy ³	[mm]	± 0,008
Repeating accuracy	[mm]	± 0,006

¹ Main spindle drives

		133	DASK
Speed range	[rpm]	4000	18000
Optional up to	[rpm]	9000	-
Max. torque	[Nm]	355 (40% DC)	130 (S6)
Max. power	[kW]	56 (40% DC)	27 (S6)

² Optional features

³ Per 1000 mm per axis X/Y/Z with vertical spindle

Technical specifications refer to the standard version. Extensions and modifications upon request and depending on overall configuration and application.