

Technical data UPFZ

UPFZ 40

UPFZ 50

Working area

X-traverse range	[mm]	3000 - 10000	3000 - 10000
With horizontal spindle minus	[mm]	2 x 410	2 x 460 (2 x 360) ²
Y-traverse range	[mm]	1500 - 4000	1500 - 4000
With horizontal spindle minus	[mm]	2 x 410	2 x 460 (2 x 360)
Z-traverse range horizontal / vertical	[mm]	800 - 1500	800 - 1500
Min. distance table - spindle nozzle hor./vert.	[mm]	230/230	230/230 (230/330) ²

Machine table

Table width	[mm]	1500 - 3000	1500 - 3000
Table length approx.	[mm]	X-Weg	X-Weg
T-slots, reference slot H7	[mm]	22 H9	22 H9
T-slots indexing	[mm]	660	660
Max. table load	[kg/m ²]	1500	1500 (2000) ²

Feed drive

Max. rapid traverse in X/Y/Z	[m/min]	15/15/10 (20/20/15) ²	15/15/10 (20/20/15) ²
Max. feed force	[N]	9000	12000

Main spindle drive

Standard drive no. ¹		110	161
Optional drive no. ¹		100, 111, 113	131, 133, 163

Tool holding fixture

DIN ISO 7388-1 AD / DIN ISO 7388-3 AD		SK 40	SK 50
Optional		BT 40, HSK A63, C6	BT 50, HSK A100, C8

Tilting spindle head

Swivelling range A-axis		180°	180°
Swivelling range B-axis		360°	360°
Indexing		2,5° (1°, 0,001°) ²	2,5° (1°, 0,001°) ²

Tool changer

Number of tool pockets standard		22	22
Optional expandable up to		60 (90)	60 (90)
Max. tool diameter	[mm]	85	110
By free adjacent pockets	[mm]	135	180
Max. tool length	[mm]	400	400

Accuracy

Positioning accuracy ³	[mm]	± 0,02 ⁴	± 0,02 ⁴
Repeating accuracy	[mm]	± 0,0075	± 0,0075

¹ Main spindle drives

		100	110	111	113
Speed range	[rpm]	6000	6000	6000	6000
Optional up to	[rpm]	15000	12000	12000	12000
Max. torque (40% DC)	[Nm]	95	143	191	255
Max. power (40% DC)	[kW]	20	30	40	40
		131	133	161	163
Speed range	[rpm]	4000	4000	4000	4000
Optional up to	[rpm]	9000	9000	7500	7500
Max. torque (40% DC)	[Nm]	286	355	540	540
Max. power (40% DC)	[kW]	45	56	28	57

² Optional features

³ Per 1000 mm per axis X/Y/Z

⁴ Increased accuracy on request

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