

# Technical data UPFZ

## UPFZ 40

## UPFZ 50

### Working area

X-traverse range	[mm]	2000 - 10000	3000 - 10000
With horizontal spindle minus	[mm]	2 x 375	2 x 460
Y-traverse range	[mm]	1000 - 4000	1500 - 4000
With horizontal spindle minus	[mm]	2 x 375	2 x 460
Z-traverse range horizontal / vertical	[mm]	650 - 1200	800 - 1200
Min. distance table - spindle nozzle	[mm]	230	230

### Machine table

Table width	[mm]	1200 - 3000	1500 - 3000
Table length approx.	[mm]	X-stroke	X-stroke
T-slots, reference slot H7	[mm]	22 H9	22 H9
T-slots indexing	[mm]	660	660
Max. table load	[kg/m <sup>2</sup> ]	1000	1500 (2000) <sup>2</sup>

### Feed drive

Max. rapid traverse in X/Y/Z	[m/min]	20/20/15 (30/30/25) <sup>2</sup>	15/15/10 (20/20/15) <sup>2</sup>
Max. feed force	[N]	10000	15000

### Main spindle drive

Standard drive no. <sup>1</sup>		110	161
Optional drive no. <sup>1</sup>		100, 111, 113	131, 133, 163

### Tool holding fixture

DIN 69871 A / DIN 69872 A		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°) <sup>2</sup>	2,5° (1°, 0,001°) <sup>2</sup>

### Tool changer

Number of tool pockets standard		22	22
Optional expandable up to		90	90
Max. tool diameter	[mm]	85	110
By free adjacent pockets	[mm]	135	180
Max. tool length	[mm]	300 (400) <sup>3</sup>	400
Tool change time approx.	[s]	13	13

### Accuracy

Positioning accuracy <sup>4</sup>	[mm]	± 0,02 <sup>5</sup>	± 0,02 <sup>5</sup>
Repeating accuracy	[mm]	± 0,0075	± 0,0075

### <sup>1</sup> Main spindle drives

		100	110	111	113
Speed range	[rpm]	6000	6000	6000	6000
Optional up to	[rpm]	15000	12000	12000	10000
Max. torque (40% DC)	[Nm]	95	143	191	255
Max. power (40% DC)	[kW]	20	30	40	40
		<b>131</b>	<b>133</b>	<b>161</b>	<b>163</b>
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

<sup>2</sup> Optional features

<sup>4</sup> Per 1000 mm per axis X/Y/Z with vertical spindle

<sup>3</sup> From X-stroke 800 mm

<sup>5</sup> Increased accuracy on request