

Technical data

VPC U

		VPC 40 U	VPC 45 U	VPC 50 U	VPC 55 U		
Working area							
X-traverse range vertical	[mm]	2300 (2940) ²	2300 (2940) ²	2300 (2940) ²	2300 (2940) ²		
X-traverse range horizontal	[mm]	2000 (2640) ²	2000 (2640) ²	2000 (2640) ²	2000 (2640) ²		
Y-traverse range	[mm]	1200 (1400, 1600) ²	1400 (1600) ²	1200 (1400, 1600) ²	1400 (1600) ²		
Z-traverse range	[mm]	600 (700) ²	900	600 (700) ²	900		
Machine table							
Table width (dependent on Y-stroke)	[mm]	1100 (1350, 1500) ²	1100 (1350, 1500) ²	1100 (1350, 1500) ²	1100 (1350, 1500) ²		
Table length approx.	[mm]	1100	1100	1100	1100		
T-slots, reference slot H7	[mm]	14 H9	14 H9	14 H9	14 H9		
T-slots indexing	[mm]	160	160	160	160		
Number of T-slots		7	7	7	7		
Max. table load per table	[kg]	1500 (2000) ²	2000 (3500) ²	1500 (2000) ²	2000 (3500) ²		
Min. distance table - spindle nozzle vert.	[mm]	260	260	210	210		
Min. distance table - spindle nozzle hor.	[mm]	310	310	310	310		
CNC-rotary table							
Clamping surface	[mm]	1100 x 1100	1100 x 1100 (ø 1500) ²	1100 x 1100	1100 x 1100 (ø 1500) ²		
Max. transport weight	[kg]	1500 (2000) ²	2000 (3500) ²	1500 (2000) ²	2000 (3500) ²		
Max. tangential moment	[Nm]	10000	10000 (18000) ²	10000	10000 (18000) ²		
Max. tilting moment	[Nm]	26000	26000 (60000) ²	26000	26000 (60000) ²		
Accuracy measuring system	[arcsec]	± 5"	± 5"	± 5"	± 5"		
Min. distance table - spindle nozzle vert.	[mm]	110	110	60	60		
Min. distance table - spindle nozzle hor.	[mm]	160	160	160	160		
Feed drive							
Max. rapid traverse in X/Y/Z	[m/min]	20/20/20 (30/30/25) ²	20/20/20 (30/30/25) ²	20/20/20 (30/30/25) ²	20/20/20 (30/30/25) ²		
Max. feed force	[N]	9000	9000	9000	9000		
Main spindle drive							
Standard drive no. ¹		110	110	131	131		
Optional drive no. ¹		100, 111, 113	100, 111, 113	133	133		
Tool holding fixture							
DIN 69871 A / DIN 69872 A		SK 40	SK 40	SK 50	SK 50		
Optional		BT 40, HSK A63, C6	BT 40, HSK A63, C6	BT 50, HSK A100, C8	BT 50, HSK A100, C8		
Tilting spindle head							
Swivelling range B-axis		90°	90°	90°	90°		
Indexing		2,5° (0,001) ²	2,5° (0,001°), fully interpolating) ²	2,5° (0,001) ²	2,5° (0,001°), fully interpolating) ²		
Tool changer							
Number of tool pockets standard		22	22	20	20		
Optional expandable up to		90	90	90	90		
Max. tool diameter	[mm]	85	85	110	110		
By free adjacent pockets	[mm]	135	135	180	180		
Max. tool length	[mm]	400	400	400	400		
Tool change time approx.	[s]	6	6	7	7		
Accuracy							
Positioning accuracy ³	[mm]	± 0,015 (± 0,008) ²	± 0,015 (± 0,008) ²	± 0,015 (± 0,008) ²	± 0,015 (± 0,008) ²		
Repeating accuracy	[mm]	± 0,01 (± 0,006) ²	± 0,01 (± 0,006) ²	± 0,01 (± 0,006) ²	± 0,01 (± 0,006) ²		
¹ Main spindle drives							
		100	110	111	113	131	133
Speed range	[rpm]	6000	6000	6000	6000	4000	4000
Optional up to	[rpm]	15000	12000	12000	10000	9000	9000
Max. torque (40% DC)	[Nm]	95	143	191	255	286	355
Max. power (40% DC)	[kW]	20	30	40	40	45	56

² Optional features ³ Per 1000 mm per axis X/Y/Z with vertical spindle