



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, 3400) ²	2300 (2940, 3400) ²	2300 (2940, 3400) ²	2300 (2940, 3400) ²
X-traverse range horizontal	[mm]	2000 (2640, 3100) ²	2000 (2640, 3100) ²	2000 (2640, 3100) ²	2000 (2640, 3100) ²
Y-traverse range	[mm]	1200 (1400, 1600) ²	1400 (1600, 1800, 2200) ²	1200 (1400, 1600) ²	1400 (1600, 1800, 2200) ²
Z-traverse range	[mm]	600 (700) ²	900 (1100) ²	600 (700) ²	900 (1100) ²
Machine table					
Table width (dependent on Y-stroke)	[mm]	1100 (1350, 1500) ²	1100 (1350, 1500, 1800, 2200) ²	1100 (1350, 1500) ²	1100 (1350, 1500, 1800, 2200) ²
Table length	[mm]	approx. X-traverse	approx. X-traverse	approx. X-traverse	approx. X-traverse
T-slots, reference slot H7	[mm]	14 H9 (18 H9) ²	14 H9 (18 H9) ²	14 H9 (18 H9) ²	14 H9 (18 H9) ²
T-slots indexing	[mm]	160	160	160	160
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 (110) ²	260 (110) ²	210 (60) ²	210 (60) ²
Min. distance table - spindle nozzle hor.	[mm]	310 (160) ²	310 (160) ²	310 (160) ²	310 (160) ²
CNC-rotary table					
Clamping surface	[mm]	1100 x 1100 bis ø 1600 ²	1100 x 1100 bis ø 2300 ²	1100 x 1100 bis ø 1600 ²	1100 x 1100 bis ø 2300 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" (±1") ²	± 5" (±1") ²	± 5" (±1") ²	± 5" (±1") ²
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, 173
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° (100°)	90°	90° (100°)
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	173 ⁴
Speed range	[rpm]	6000	6000	6000	6000	4000	4000	6000
Optional up to	[rpm]	15000	12000	12000	10000	9000	9000	7500
Max. torque (40% DC)	[Nm]	95	143	191	255	286	355	445
Max. power (40% DC)	[kW]	20	30	40	40	45	56	70

² Optional features ³ Per 1000 mm per axis X/Y/Z with vertical spindle ⁴ exclusively for VPC 55 U with interpolating tilting head

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