



# Technical data VPC

		VPC 40	VPC 45	VPC 50	VPC 50 power	VPC 55
<b>Working area</b>						
X-traverse range	[mm]	2360 (2940, 3400) <sup>2</sup>	2360 (2940, 3400) <sup>2</sup>	2360 (2940, 3400) <sup>2</sup>	2300	2360 (2940, 3400) <sup>2</sup>
Y-traverse range	[mm]	1200 (1400, 1600) <sup>2</sup>	1400 (1600, 1800, 2200) <sup>2</sup>	1200 (1400, 1600) <sup>2</sup>	1200 (1400, 1600) <sup>2</sup>	1400 (1600, 1800, 2200) <sup>2</sup>
Z-traverse range	[mm]	500 (600) <sup>2</sup>	800	500 (600) <sup>2</sup>	500 (600) <sup>2</sup>	800 <sup>2</sup>
<b>Machine table</b>						
Table width (dependent on Y-stroke)	[mm]	1100 (1350, 1500) <sup>2</sup>	1100 (1350, 1500, 1800, 2200) <sup>2</sup>	1100 (1350, 1500) <sup>2</sup>	1100 (1350, 1500) <sup>2</sup>	1100 (1350, 1500, 1800, 2200) <sup>2</sup>
Table length	[mm]	approx. X-traverse	approx. X-traverse	approx. X-traverse	approx. X-traverse	approx. X-traverse
T-slots, reference slot H7	[mm]	14 H9 (18 H9) <sup>2</sup>	14 H9 (18 H9) <sup>2</sup>	14 H9 (18 H9) <sup>2</sup>	18 H9 (22 H9) <sup>2</sup>	14 H9 (18 H9) <sup>2</sup>
T-slots indexing	[mm]	160	160	160	160	160
Max. table load per table	[kg]	1500 (2000) <sup>2</sup>	2000	1500 (2000) <sup>2</sup>	2000	2000
Min. distance table - spindle nozzle	[mm]	230	230	230	135	230
<b>Feed drive</b>						
Max. rapid traverse in X/Y/Z	[m/min]	20/20/20 (30/30/25) <sup>2</sup>	20/20/20 (30/30/25) <sup>2</sup>	20/20/20 (30/30/25) <sup>2</sup>	20/20/20	20/20/20 (30/30/25) <sup>2</sup>
Max. feed force	[N]	9000	9000	9000	12000	9000
<b>Main spindle drive</b>						
Standard drive no. <sup>1</sup>		110	110	131	163	131
Optional drive no. <sup>1</sup>		100, 111, 113	100, 111, 113	133	-	133
<b>Tool holding fixture</b>						
DIN 69871 A / DIN 69872 A		SK 40	SK 40	SK 50	SK 50	SK 50
Optional		BT 40, HSK A63, C6	BT 40, HSK A63, C6	BT 50, HSK A100, C8	HSK A100	BT 50, HSK A100, C8
<b>Tool changer</b>						
Number of tool pockets standard		22	22	20	20	20
Optional expandable up to		90	90	90	60	90
Max. tool diameter	[mm]	85	85	110	110	110
By free adjacent pockets	[mm]	135	135	180	180	180
Max. tool length	[mm]	400	400	400	400	400
Tool change time approx.	[s]	6	6	7	7	7
<b>Accuracy</b>						
Positioning accuracy <sup>3</sup>	[mm]	± 0,015 (± 0,008) <sup>2</sup>	± 0,015 (± 0,008) <sup>2</sup>	± 0,015 (± 0,008) <sup>2</sup>	± 0,015	± 0,015 (± 0,008) <sup>2</sup>
Repeating accuracy	[mm]	± 0,01 (± 0,006) <sup>2</sup>	± 0,01 (± 0,006) <sup>2</sup>	± 0,01 (± 0,006) <sup>2</sup>	± 0,01	± 0,01 (± 0,006) <sup>2</sup>

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

		100	110	111	113	131	133	163 <sup>4</sup>
Speed range	[rpm]	6000	6000	6000	6000	4000	4000	4000
Optional up to	[rpm]	15000	12000	12000	10000	9000	9000	7500
Max. torque (40% DC)	[Nm]	95	143	191	255	286	355	540
Max. power (40% DC)	[kW]	20	30	40	40	45	56	56

<sup>2</sup> Optional features

<sup>3</sup> Per 1000 mm per axis X/Y/Z

<sup>4</sup> in combination with VPC 50 power

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