

Technical data VSC

Technical data		VSC 1 - XTS	VSC 2 - XTS	VSC 2 - XTS50		VSC 3 - XTS	VSC 3 - XTS50	VSC 50 - XTS
Working area								
X-traverse range	[mm]	1760 - 9000	1760 - 9000	1760 - 9000	[mm]	1760 - 9000	1760 - 9000	2000 - 9000
Optional pendulum travel	[mm]	(X-axis - 400) / 2	(X-axis - 500) / 2	(X-axis - 500) / 2	[mm]	(X-axis - 500) / 2	(X-axis - 500) / 2	(X-axis - 700) / 2
Y-traverse range	[mm]	550	600	600	[mm]	700 (900, 1000, 1100) ²	700 (900, 1000, 1100) ²	1000 (1250)
Z-traverse range	[mm]	600	850	850	[mm]	850 (950, 1200) ²	850 (950, 1200)	1000 (1250)
Distance table - spindle nozzle	[mm]	180 - 780	180 - 1030	180 - 1030	[mm]	180 - 1030 (1130) ²	180 - 1030	180 - 1180
Machine table								
Clamping surface, grinded, approx.	[mm]	(X-axis + 400)xY-axis	(X-axis + 400)x Y-axis	(X-axis + 400)x Y-axis	[mm]	(X-axis + 400)xY-axis	(X-axis + 400)x Y-axis	(X-axis + 400)x Y-axis
T-slots, reference slot H7	[mm]	14 H9	14 H9	18 H9	[mm]	14 H9	18 H9	18 H9
T-slots indexing	[mm]	160	160	160	[mm]	160	160	160
Number of T-slots		3	4	4	[mm]	5 (6) ²	5 (6) ²	6
Max. table load	[kg/m ²]	800	1000	1000	[kg/m ²]	1200	1200	1500
Feed drive								
Max. rapid traverse	[m/min]	30/30/25 (40/40/30) ²	40/40/30	40/40/30	[m/min]	40/40/30	40/40/30	30/30/25
Max. feed force	[N]	9000	9000	9000	[N]	9000	9000	20000
Main spindle drive								
Standard drive no. ¹		110	110	131		110	131	161
Optional drive no. ¹		100/111	100, 111, 113	133		100, 111, 113	133	163, 182
Tool holding fixture								
DIN ISO 7388-1 AD / DIN ISO 7388-3 AD		SK 40	SK 40	SK 50		SK 40	SK 50	SK 50
Optional		BT 40, HSK A63, C6	BT 40, HSK A63, C6	BT 50, HSK A100, C8		BT 40, HSK A63, C6	BT 50, HSK A100, C8	BT 50, HSK A100, C8
Tool changer								
Number of tool pockets standard		22	22	26		22	26	30
Optional expandable up to		216 ³	216 ³	156 ³		288 ³	180 ³	180 ³
Max. tool diameter	[mm]	85	85	110	[mm]	85	110	110
By free adjacent pockets	[mm]	135	135	180	[mm]	135	180	180
Max. tool length	[mm]	400	400	400	[mm]	400	400	400
Tool change time approx.	[s]	4	5	7	[s]	5	7	8
Accuracy								
Positioning accuracy ⁴	[mm]	± 0,015 (± 0,0075) ²	± 0,015 (± 0,0075) ²	± 0,015 (± 0,0075) ²	[mm]	± 0,015 (± 0,0075) ²	± 0,015 (± 0,0075) ²	± 0,015
Repeating accuracy	[mm]	± 0,005	± 0,005	± 0,005	[mm]	± 0,005	± 0,005	± 0,005

¹ Main spindle drives

		100	110	111	113		131	133	161	163	182
Speed range	[rpm]	6000	6000	6000	6000	[rpm]	4000	4000	4000	4000	4000
Optional up to	[rpm]	15000	12000	12000	10000	[rpm]	9000	9000	7500	7500	-
Max. torque (40% DC)	[Nm]	95	143	191	255	[Nm]	286	355	540	540	820
Max. power (40% DC)	[kW]	20	30	40	40	[kW]	45	56	28	56	81

² Optional features

³ e.g. 3 fully equipped towers

⁴ Per 1000 mm per axis X/Y/Z