

Technical data VSC

Technical data		VSC 1 - M	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 - 500) / 2	(X-axis - 500) / 2	(X-axis - 500) / 2	[mm]	(X-axis - 500) / 2	(X-axis - 500) / 2	(X-axis - 600) / 2
Y-traverse range	[mm]	500	600	600	[mm]	700 (900, 1000) ²	700 (900) ²	1000
Z-traverse range	[mm]	600	800	800	[mm]	850 (950) ²	850	1000
Distance table - spindle nozzle	[mm]	180 - 780	180 - 980	180 - 980	[mm]	180 - 1030 (1130) ²	180 - 1030	180 - 1180
Machine table								
Clamping surface, grinded, approx.	[mm]	(X-axis + 400) x Y-axis	(X-axis + 400) x Y-axis	(X-axis + 400) x Y-axis	[mm]	(X-axis + 400) x Y-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		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	15000
Main spindle drive								
Standard drive no. ¹		110	110	131		110	131	161
Optional drive no. ¹		100	100, 111, 113	133		100, 111, 113	133	163, 182
Tool holding fixture								
DIN 69871 A / DIN 69872 A		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		72	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
Weight								
Standard version approx.	[kg]	9500	14000	15000	[kg]	14700	15500	32000
Per meter X-stroke plus approx.	[kg]	2250	2500	2750	[kg]	2750	3000	3500

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	57	81

² Optional features

³ e.g. 3 fully equipped towers

⁴ Per 1000 mm per axis X/Y/Z

	VSC 3 - XTS	VSC 3 - XTS50	VSC 50 - XTS
[mm]	1760 - 9000	1760 - 9000	2000 - 9000
[mm]	(X-axis - 500) / 2	(X-axis - 500) / 2	(X-axis - 600) / 2
[mm]	700 (900, 1000) ²	700 (900) ²	1000
[mm]	850 (950) ²	850	1000
[mm]	180 - 1030 (1130) ²	180 - 1030	180 - 1180
[mm]	(X-axis + 400) x Y-axis	(X-axis + 400) x Y-axis	(X-axis + 400) x Y-axis
[mm]	14 H9	18 H9	18 H9
[mm]	160	160	160
	5 (6) ²	5 (6) ²	6
[kg/m ²]	1200	1200	1500
[m/min]	40/40/30	40/40/30	30/30/25
[N]	9000	9000	15000
	110	131	161
	100, 111, 113	133	163, 182
	SK 40 BT 40, HSK A63, C6	SK 50 BT 50, HSK A100, C8	SK 50 BT 50, HSK A100, C8
	22	26	30
	288 ³	180 ³	180 ³
[mm]	85	110	110
[mm]	135	180	180
[mm]	400	400	400
[s]	5	7	8
[mm]	± 0,015 (± 0,0075) ²	± 0,015 (± 0,0075) ²	± 0,015
[mm]	± 0,005	± 0,005	± 0,005
[kg]	14700	15500	32000
[kg]	2750	3000	3500

	131	133	161	163	182
[rpm]	4000	4000	4000	4000	4000
[rpm]	9000	9000	7500	7500	-
[Nm]	286	355	540	540	820
[kW]	45	56	28	57	81