

## Technical data VCC

Technical data		VCC	VCC 2	VCC 50
<b>Working area</b>				
X-traverse range	[mm]	750 1200	1200	1350
Y-traverse range	[mm]	550	600	750
Z-traverse range	[mm]	600	700	850
Distance table - spindle nozzle	[mm]	180 - 780	180 - 880	180 - 1030
<b>Machine table</b>				
Clamping surface, grinded, approx.	[mm]	1000 x 500 1350 x 500	1350 x 600	2050 x 850
T-slots, reference slot H7	[mm]	14 H9	14 H9	18 H9
T-slots indexing	[mm]	160	160	160
Number of T-slots		3	4	5
Max. table load	[kg/m <sup>2</sup> ]	800	800	1200
<b>Feed drive</b>				
Max. rapid traverse	[m/min]	25/25/20	25/25/20	40/40/30
Max. feed force	[N]	9000	9000	9000
<b>Main spindle drive</b>				
Standard drive no. <sup>1</sup>		110	110	131
Optional drive no. <sup>1</sup>		100 / 111	100 / 111	133 / 163
<b>Tool holding fixture</b>				
DIN 69871 A / DIN 69872 A		SK 40	SK 40	SK 50
Optional		HSK A63	HSK A63	HSK A100
<b>Tilting spindle head (optional)</b>				
Swivelling range				± 90° or ± 100°
Indexing				0,001° (hydr. clamped or fully interpolating)
<b>Tool changer</b>				
No. of tool pockets standard		22	22	22
Optional expandable up to		30	30	
Max. tool diameter	[mm]	85	85	110
By free adjacent pockets	[mm]	135	135	180
Max. tool length	[mm]	400	400	400
<b>Accuracy</b>				
Positioning accuracy <sup>2</sup>	[mm]	± 0,02	± 0,02	± 0,015
Optional	[mm]	± 0,015 / ± 0,0075	± 0,015 / ± 0,0075	± 0,0075
Repeating accuracy	[mm]	± 0,005	± 0,005	± 0,005

## Technical data DBZ

Technical data		DBZ	DBZ 2
<b>Working area</b>			
X-traverse range	[mm]	2 x 750	2 x 900
Y-traverse range	[mm]	550	600
Z-traverse range	[mm]	600	700
Distance table - spindle nozzle	[mm]	180 - 780	180 - 880
<b>Machine table</b>			
Clamping surface,	[mm]	2 x (1000 x 500)	2 x (1000 x 600)
T-slots, reference slot H7	[mm]	14 H9	14 H9
T-slots indexing	[mm]	160	160
Number of T-slots		3	4
Max. table load	[kg/m <sup>2</sup> ]	800	800
<b>Feed drive</b>			
Max. rapid traverse	[m/min]	25/25/20	25/25/20
Max. feed force	[N]	9000	9000
<b>Main spindle drive</b>			
Standard drive no. <sup>1</sup>		110	110
Optional drive no. <sup>1</sup>		100 / 111	100 / 111
<b>Tool holding fixture</b>			
DIN 69871 A / DIN 69872 A		SK 40	SK 40
Optional		BT 40, HSK A63	BT 40, HSK A63
<b>Tool changer</b>			
No. of tool pockets standard		22	22
Optional expandable up to		30	30
Max. tool diameter	[mm]	85	85
By free adjacent pockets	[mm]	135	135
Max. tool length	[mm]	400	400
<b>Accuracy</b>			
Positioning accuracy <sup>2</sup>	[mm]	± 0,015	± 0,015
Optional	[mm]	± 0,0075	± 0,0075
Repeating accuracy	[mm]	± 0,005	± 0,005

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

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

<sup>2</sup> Per 1000 mm per axis X/Y/Z