

## Technical data

Machine type		S45-400	S55-400
<b>Work range</b>			
Range of adjustment X,Y	mm	700 x 500	1'300 x 800
Vertical adjustment of the grinding head (W)	mm	500	635
Clearance between the grinding motor (45S) and the table	mm	0 - 600	0 - 750
Clearance between columns	mm	750	970
Ground diameter (with grinding wheel 100 mm):			
• without extension plate	mm	max. 230	max. 230
• with extension plate	mm	max. 360	max. 360
Taper grinding, included angle (divergent and convergent)	degree	max. 16°	max. 16°
<b>Table</b>			
Effective surface	mm	770 x 630	1'440 x 860
6 T-slots, width	mm	14	14
Admissible load (optional)	kg	max. 500	800 (1'500)
<b>Feeds</b>			
Table and cross slide X,Y			
• Machining speed	mm/min	0 - 1'800	0 - 1'800
• Traversing speed	mm/min	4'000	4'000
Vertical traversing speed W			
• Machining speed	mm/min	0 - 800	0 - 800
• Traversing speed	mm/min	2'000	2'000
<b>Grinding spindle</b>			
Spindle sleeve diameter	mm	100	100
The machine is prepared for the following grinding spindle speeds:			
• Infinitely adjustable and programmable grinding motors	min-l	4'500 - 80'000	4'500 - 80'000
• Grinding turbine adjustable up to	min-l	130'000	130'000
Planetary speed, C axis:			
• Infinitely adjustable and programmable planetary drive	min-l	5 - 300	5 - 300
• Follow-up mode, AC servo drive	min-l	up to 20	up to 20
Alternating speed, Z axis, infinitely adjustable:			
• Alternating stroke motion, infinitely adjustable	mm/min	V min. 0,500	V min. 0,500
	mm/min	V max. 14'000	V max. 14'000
• Stroke frequency Z	Hz	max. 5	max. 5
• Stroke length Z, infinitely adjustable	mm	max. 130	max. 170
Radial fine feed, U axis	mm	up to 5,5	up to 5,5
<b>Accuracy</b>			
Positional uncertainty of the axes X,Y and W (approached from ± direction):			
P corresponding to VDI/DGQ 3441	mm	0,0025	0,0025

All specifications and designs are subject to alterations without notice

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