

Technical data

Machine type		KEL-VARIA		
		Universal	Tandem	Diagonal
Wheelhead type				
Main specifications				
Distance between centres	mm	800 / 1000 / 1500		
Grinding length	mm	600 / 1000 / 1500		
Centre height	mm	175 / 225		
Weight of workpiece between centres	kg	150		
Load on chucked work	Nm	160 standard		
Mains voltage required		3 x 400 V / 50 Hz / 3 x 460 V / 60 Hz		
Power consumption depending on equipment	A	35 – 80		
Space required / length x width	mm	3010 x 2000 / 3600 x 2000 / 4600 x 2000		
Longitudinal slide: Z-axis				
Travel	mm	750 / 1150 / 1650		
Rapid traverse speed	m/min	15		
Resolution	µm	0.1		
Swiveling range of upper table	degree	9 / 9 / 7		
Wheelslide: X-axis				
Travel	mm	310		
Rapid traverse speed	m/min	7.5		
Resolution	µm	0.1		
Swivel devices				
B-axis		option / partly standard		
Resolution	sec	0.1		
Autom. indexing/2.5° Hirth coupling		option		
Man. indexing/2.5° Hirth coupling		partly standard		
Swiveling range	degree	240		
Fixed intermediate section		standard for R		
Wheelhead general				
Drive motor water-cooled	kW	10		
Peripheral grinding wheel speed	m/s	35 / 45 V-konstant		
Wheelhead Universal				
Grinding wheel dimensions, lefthand side	mm	400 / 500		
Grinding wheel dimensions, righthand side	mm	300 / 400 / 500		
Wheelhead Tandem-type				
Grinding wheel dimensions, lefthand side	mm		400	
Grinding wheel dimensions, righthand side	mm		400	
Wheelhead Diagonal				
Grinding wheel dimensions, lefthand side	mm			400 / 500
Grinding wheel dimensions, righthand side	mm			400 / 500
Internal grinding attachment				
Bore for spindles up to	mm	120		
Rotational speed of spindle, motor infinitely variable	min-1	6000 – 21000		
Motor output	kW	2.5		
HF spindles MFV, optional	kW	5.2 / 8		
Rotational speed HF spindle MFV 1230	min-1	30'000		
Rotational speed HF spindle MFV 1260	min-1	60'000		
Workhead standard				
Rotational spindle speed	min-1	8 – 800		
Driving torque spindle	Nm	60		
Spindle nose / internal taper		DIN 55026 #5 MT 5 / ASA 5		
Swiveling range option	degree	– 10 + 100		
Micro-adjustment	sec	+ / – 60		
Tailstock				
Internal taper		MT 4		
Retraction of sleeve	mm	50		
Micro-adjustment optional	µm	+ / – 150		
CNC control system				
Heidenhain		GRINDplusIT		
GEFanuc		310is		
Measuring systems				
Gap Control		KEL-TOUCH		
Active longitudinal positioning		Movomatic / Marposs		
Passive longitudinal positioning		Movomatic / Marposs		
In-process gauging		Movomatic / Marposs		
Balancing		KEL-BALANCE		

All specifications and designs are subject to alterations without notice

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