

CNC VERTICAL LATHES VL SERIES

STANDARD FEATURES

- Modular design for flexible solutions according to machining requirements
- High rigidity and vibration damping due to utilization of massive cast iron components
- Symmetric frame construction for equal temperature distribution
- Hardened and ground box guideways (steel inserts)
- Ball screws (X,Z)
- HEIDENHAIN linear scales (X, Z)
- Separate rotary encoders for turning and milling
- Mechanical clamping – hydraulic unclamping (W)
- Hydraulic clamping/unclamping (X, Z)
- Power tool clamping
- Automatic lubrication system
- REXROTH/PARKER/ATOS hydraulic components
- SIEMENS AC servo motors, PLC and electrics
- SIEMENS SINUMERIK 840D sl



TECHNICAL SPECIFICATIONS

TABLE	UNITS	VL 17	VL 20	VL 22	VL 27	VL 33	VL 43	VL 53/60
Table diameter	mm in	1450 57	1600 63	2000 78.7	2500 98.4	3000 118	4000 157.5	4000 157.5
Max. machining diameter	mm in	1700 67	2000 78.7	2200 86.6	2700 106.3	3300 130	4300 169	5300/6000 209/236
Max. machining height	mm in	1400 55	1550 61	1850 73	2100 83	2500 98.4	2700 106.3	3000 118
Max. workpiece weight	kg lb	10,000 22,000	10,000 22,000	20,000 44,000	25,000 55,000	25,000 55,000	30,000 66,000	30,000 66,000
Table speed (continuous)	rpm	5-400	5-350	1.43-250	1.12-200	1-150	1-92	1-92
Table motor	kW HP	51 68	51 68	60 80	60 80	71 95	100 134	100 134
Ram cross section	mm in	250x250 9.8x9.8	250x250 9.8x9.8	250x250 9.8x9.8	250x250 9.8x9.8	250x250 9.8x9.8	300x300 11.8x11.8	300x300 11.8x11.8
Live spindle speed	rpm	10-2000	10-2000	10-2000	10-2000	10-2000	10-2000	10-2000
Live spindle motor	kW HP	28 37.5	28 37.5	28 37.5	28 37.5	28 37.5	28 37.5	28 37.5
W-axis travel	mm in	1000 39.4	1000 39.4	1400 55	1700 67	1900 74.8	2100 82.7	2400 94.5
Z-axis travel	mm in	1200 47.2	1200 47.2	1500 59	1500 59	1750 69	2000 78.7	2200 86.6
Feeds X, Z	mm/min in/min	5-12000 0.2-472	5-12000 0.2-472	5-12000 0.2-472	5-12000 0.2-472	5-12000 0.2-472	5-10000 0.2-394	5-10000 0.2-394
W	mm/min in/min	400/10 15.7/0.4	400/10 15.7/0.4	400/10 15.7/0.4	400/10 15.7/0.4	400/10 15.7/0.4	200/10 7.8/0.4	200/10 7.8/0.4