

# CNC Vertical Lathes

## VLO SERIES



### TECHNICAL SPECIFICATIONS

		VLO 40		VLO 60	
Table diameter	mm in	2000 78.7		4000 157.5	
Max. machining diameter	mm in	4000 157.5		6000 236	
Max machining height	mm in	2000 78.7		3000 118	
Max. workpiece weight	kg lb	25,000 55,000		30,000 66,000	
Table speed (continuous)	rpm	2.5-150		2.5-92	
Table motor	kW HP	60 80		60 80	
Ram cross section	mm in	250x250 9.8x9.8		300x300 11.8x11.8	
Live spindle speed	rpm	10-2000		10-2000	
Live spindle motor	kW HP	28 37.5		28 37.5	
X-axis travel from the table center	mm in	-500/3300 -19.7/130		-500/4300 -19.7/169	
W-axis travel	mm in	1400 55		2200 86.6	
Z-axis travel	mm in	1750 69		2200 86.6	
Y-axis travel	mm in	3000 118		5000 197	
Feeds	X, Z, Y	mm/min in/min	5-12,000 0.2-472	5-10,000 0.2-394	
	W	mm/min in/min	400/10 15.7/0.4	200/10 7.8/0.4	

### STANDARD FEATURES

- High rigidity and vibration damping due to utilization of massive cast iron components
- Open sided design
- Hardened and ground box guideways (steel inserts)
- Counterways lined with anti-friction material
- Ball screws (X, Z, Y)
- HEIDENHAIN linear scales (X, Z, Y)
- HEIDENHAIN rotary encoder (C)
- Ram hydraulically balanced
- Mechanical clamping - hydraulic unclamping (W)
- Hydraulic clamping / unclamping (X, Z, Y, C)
- Power tool clamping
- Automatic lubrication system
- REXROTH/PARKER/ATOS hydraulic components
- SIEMENS AC servo motors, PLC and electrics
- SIEMENS SINUMERIK 840D sl

### TRAVELS

- X-axis - ram head
- W-axis - cross rail
- Z-axis - ram
- Y-axis - table

## VLO CNC Series



### VERSIONS

- 5000/5500/6000 mm (197/216.5/236 in) table for VLO 60
- Live spindle with AC motor and 2-range planetary gearbox
- Hydrostatic guideways for table, X, Z and Y axes
- Second ram head on cross rail (VLO 60)
- Coolant through the spindle
- Choice of motors and CNC controls

### OPTIONAL EQUIPMENT \*

- Manual / automatic indexing right angle and universal milling heads
- CNC milling heads
- Grinding device
- Automatic tool changer with 12-30 tools
- Independent operator platform
- Machine enclosure
- Chip conveyor
- High pressure coolant through the spindle