

# CNC VERTICAL LATHES VLM SERIES

## 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



## TECHNICAL SPECIFICATIONS

| <b>TABLE</b>                        | <b>UNITS</b>  | <b>VLM 40</b>       | <b>VLM 60</b>       |
|-------------------------------------|---------------|---------------------|---------------------|
| 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, Y, Z                       | mm/min in/min | 5-12,000 0.2-472    | 5-10,000 0.2-394    |
| W                                   | mm/win in/win | 400/10 15.7/0.4     | 200/10 7.8/0.4      |