

VDL-1000 CNC machining centre



1,120mm x 560mm table size

1,020mm x 560mm x 600mm XYZ travel



The VDL-1000 can be used for all machining needs including milling, boring, drilling, reaming and tapping with just one clamping.

Ideal for larger or irregular parts this vertical machining centre is especially suited to the automobile, engine, ship building and aerospace industries.



Main features

- **High rigidity and stability**
- **High speed and high precision feeding system**
- **High speed precision spindle unit**
The spindle is IRD dynamic balanced avoiding resonance.
- **Fast and reliable ATC mechanism**
An optional 24 tool swing arm type ATC can be appointed.
- **Fully enclosed guards and chip conveying system**
- **Various CNC control system and software packages and quality electrics**

FANUC, Siemens or Fagor.

Specification	VDL-1000
Table size (L*W)	1,120 x 560 mm
T-slot (N*W*D)	5 x 18 x 100 b/t slots
Maximum table load	750 Kg
The distance from spindle centre line to column guideway surface	629 mm
The distance from spindle centre nose end face to table upper surface	135-735 mm
X/Y/Z travel	1,020 / 560 / 600 mm
X/Y/Z guideway type	x / y - Linear way z - box way
X/Y/Z rapid traverse	24 / 24 / 18 m/min
Feedrate	1-10,000 mm/min
X/Y/Z servo motor torque	12 / 12 / 12 Nm
Spindle motor power	7.5 / 11 kW
Spindle speed range	60-8,000 rpm
Spindle taper	#40 (7 / 24)
Tool magazine capacity / type	20 / drum 24 / swing arm
Tool adaptor type	BT40
Maximum tool weight	7 Kg
Maximum tool diameter / length	100 / 305 mm drum 77 / 305 mm swing arm
Time of tool change (T-T)	6-8/3 Sec
Air pressure requirement	0.6 Mpa
Power requirement	25 kVA
Overall dimension (L*W*H)	2,530 x 2,820 x 2,500 mm
Net weight	7,000 Kg

Standard equipment

- Drum type 20 tool pocket ATC
- Auger screw type chip conveyor and chip cart
- Coolant system
- Fully enclosed guards
- MPG
- Hand held chip air blower gun
- Rigid tapping
- RS-232 interface & DNC function
- M30 automatic power off system
- Electric cabinet with heat exchanger
- Work lamp and cycle status indicating lamp
- Spindle air tight anti-dust system
- Tool kit
- Operation & programming manuals

Optional equipment

- ISO #40 10,000rpm coolant through spindle unit
- Coolant through capability
- Oil chiller unit for spindle
- High pressure unit – 2MPa
- High pressure unit – 5-7MPa
- Arm type 24-tool pocket ATC
- High volume flood coolant system
- Door safety inter-lock
- 4th axis rotary table
- Manual tailstock (for 4th axis rotary table)
- Lift type chip conveyor
- Tool setter (Renishaw TS27R)
- Water gun for table cleaning

Price

All prices quoted by Direct CNC are inclusive of delivery, installation and training - no hidden extras, no last minute charges.

Quality

Direct CNC only works with high quality manufacturers who are ISO9001 accredited (or SC21 for aviation markets).

Performance

Machines supplied by Direct CNC are built to CE standard and come with a three year electrical and mechanical warranty and three years free service.

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