

Vertical Machining Center VDLS Series



Specification	Unit	VDLS600	VDLS850	VDLS1000	VDLS1300	VDLS1200	
Table							
Worktable size(L×W)	mm	800×420	1000×500	1120×560	1300×560	1220×620	
Max. load	kg	500	600	750	750	1200	
T-slots (numbers*width* centre distance)	mm	3×18×125	5×18×100	5×18×100	5×18×100	5×18×100	
Travel							
X/Y/Z axis travel	mm	620/440/540	860/510/560	1040/580/620	1290/580/620	1220/620/685	
X/Y/Z axis guide way type		Linear guideway	Linear guideway	Linear guideway	X/Y Linear guideway Z Box way	X/Y Linear guideway Z Box way	
Distance from spindle center to column	mm	545	607	629	666	725	
Distance from spindle nose to table	mm	140~680	145~705	125~745	125~745	95~780	
Spindle							
Spindle motor power	kW	7.5/11	7.5/11	7.5/11	11/15	7.5/11	
Max. spindle speed	r/min	12000 Direct-driven	Opt:8000 Belt-driven	12000 Direct-driven	Opt:8000 Belt-driven/ Gear-driven	12000 Direct-driven	Opt:8000 Belt-driven/ Gear-driven
Spindle taper		No.40(7:24)	No.40(7:24)	No.40(7:24)	No.40(7:24)	No.40(7:24)	No.50(7:24)
Feedrate							
Rapid traverse of X/Y/Z axis	m/min	36/36/30	36/36/30	36/36/30	24/24/20 OPT(36/36/20)	36/36/30	24/24/20 OPT(36/36/20)
Max. cutting feed rate	m/min	10	10	10	10	10	
ATC							
Tool magazine capacity		24T/Arm	24T/Arm	24T/Arm	24T/Arm	24T/Arm	
Tool shank type		BT40	BT40	BT40	BT40	BT40	
Max. tool weight	kg	8	8	8	8	15	
Max. tool diameter (w/o adjacent tools)	mm	Φ78/155	Φ78/155	Φ78/155	Φ78/155	Φ78/155	
Tool change time (T-T)	S	2.7	2.7	2.7	2.7	2.7	
Accuracy							
X/Y/Z axis positioning accuracy	mm	0.008/0.008/0.008	0.008/0.008/0.008	0.016/0.008/0.008	0.019/0.008/0.008	0.016/0.008/0.008	
X/Y/Z axis repeatability accuracy	mm	0.005/0.005/0.005	0.005/0.005/0.005	0.006/0.005/0.005	0.008/0.005/0.005	0.006/0.005/0.005	
CNC controller							
CNC controller		FANUC 0i-MF(5)Plus,FANUC 0i-MF(1)Plus,SIEMENS 828D,MITSUBISHI M80B				FANUC 0i-MF(1)Plus SIEMENS 828D	
General							
Machine dimensions(L×W×H)	mm	2445×2451×2625	2496×2530×2679	2800×2671×2820	3100×2671×2820	2990×2641×2759	
Machine weight	kg	4600	5600	7000	7200	8500	

Standard configurations

- 24T arm-type ATC
- Ball screw and linear guideway
- Spindle oil chiller
- Spindle coolant ring
- Spindle air blow
- Heat exchanger
- Compact oil-water separator
- Screw-type chip conveyor
- Rigid tapping
- Workpiece coolant system
- Air gun
- Automatic lubrication system

Optional

- Roller guideway
- Coolant through spindle and high-pressure unit
- High volume flushing system
- 4th axis rotary table
- Air conditioner
- Chain-type chip conveyor and chip cart
- Tool probe & workpiece probe
- M30 automatic power off