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Product Specifications

WELE - VTC Series

VTC1612-20 ~ VTC4032-48

Specification / Machine model	Unit	VTC1612-20	VTC-1616-20	VTC2016-24	VTC2020-24	VTC2520-30	VTC2525-30	VTC3025-35	VTC3032-35	VTC4032-48
Turning diameter	mm (in)	1600 (62.99)		2000 (78.74)		2500 (98.43)		3000 (118.11)		4000 (157.48)
Max. turning height	mm (in)	1200 (47.24)		1600 (62.99)		2000 (78.74)		2500 (98.43)		3200 (125.98)
Max. swing diameter	mm (in)	2000 (78.74)		2400 (94.49)		3000 (118.11)		3500 (137.8)		4800 (188.98)
Distance from table to ram's surface	mm (in)	1400 (55.12)	1800 (70.87)	1800 (70.87)	2200 (86.61)	2200 (86.61)	2700 (106.3)	2700 (106.3)	3400 (133.86)	3400 (133.86)
X axis travel	mm (in)	-810 to 1180 (-31.89 to 46.46)		-1010 to 1380 (-39.76 to 54.33)		-1260 to 1680 (-49.61 to 66.14)		-1510 to 2000 (-59.45 to 78.74)		-2410 to 2600 (-94.88 to 102.36)
Z axis travel	mm (in)	1050 (41.34)	1050 (41.34)	1050 (41.34)	1250 (49.21)	1250 (49.21)	1500 (59.06)	1500 (59.06)	2500 (98.43)	2500 (98.43)
W axis travel	mm (in)	800 (31.5)	1100 (43.31)	1200 (47.24)	1500 (59.06)	1500 (59.06)	1900 (74.8)	1900 (74.8)	2500 (98.43)	2500 (98.43)
Turning spindle speed	rpm	2~260		2~200		2~140		2~116		1~86
Turning spindle motor	kW (HP)	37/45 (49/60)		37/45 (49/60)		60/75 (80/100)		60/75 (80/100)		100 (134)
Turning spindle output torque	Nm	20063		26802		52507		63009		139766
Table loading	kg (lb)	14000 (30864.72)		18000 (39683.21)		22000 (48501.7)		25000 (55115.57)		50000 (110231.15)
Ram surface (square)	mm(in)	226 (8.9)		226 (8.9)		226 (8.9)		226 (8.9)	300 (11.81)	300 (11.81)
Spindle motor power(Tooling) (*1)	kW(HP)	11/15 (15/20)		11/15 (15/20)		11/15 (15/20)		11/15 (15/20)		11/15 (15/20)
Spindle speed (*1)	rpm	1600		1600		1600		1600	1200	1200
Spindle output torque (*1)	Nm	304		304		304		304		304
Spindle taper for turning (*1)		ISO 50		ISO 50		ISO 50		ISO 50		ISO 50
Spindle taper for milling (*1)		ISO 50		ISO 50		ISO 50		ISO 50		ISO 50
Tool magazine		16T		16T		16T		16T		16T
X axis rapid traverse	mm (in)	12000 (472.44)		10000 (393.7)		10000 (393.7)		10000 (393.7)		12000 (472.44)

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Z axis rapid traverse	mm (in)	8000 (314.96)		8000 (314.96)		8000 (314.96)		8000 (314.96)	10000 (393.7)	10000 (393.7)
X/Z axis feedrate traverse	mm (in)	2000 (78.74)		2000 (78.74)		2000 (78.74)		2000 (78.74)		5000 (196.85)
W axis feedrate traverse	mm (in)	2000 (78.74)		2000 (78.74)		2000 (78.74)		2000 (78.74)		2000 (78.74)
XZ axis positioning accuracy (VDI)	mm (in)	0.015 (0.0006)		0.02 (0.0008)		0.02 (0.0008)		0.025 (0.001)		0.025 (0.001)
XZ axis repeatability accuracy (VDI)	mm (in)	0.008 (0.0003)		0.01 (0.0004)		0.01 (0.0004)		0.012 (0.0005)		0.012 (0.0005)
Cs axis positioning accuracy (VDI) (*1)	arcsec	30"/360°		30"/360°		30"/360°		30"/360°		30"/360°
Cs axis repeatability accuracy (VDI) (*1)	arcsec	15"		15"		15"		15"		15"
Machine height (Max.)	mm (in)	5175 (204)	5525 (217.52)	5540 (218.11)	5940 (233.86)	6265 (246.65)	6765 (266.34)	6665 (262.4)	7365 (289.96)	7550 (297.24)
Machine weight (Max.)	kg(lb)	28000 (61729)	32000 (70547)	38000 (83775)	40000 (88184)	42000 (92594)	44000 (97003)	58000 (127868)	63000 (138891)	73000 (160937)