

Product Specifications

WELE - HMC Series

Specification / Machine model	unit	HMC500	HMC630	HMC800
X axis travel	mm (in)	640(25.19)	1050(41.33)	1250(49.21)
Y axis travel	mm (in)	610(24.01)	900(35.43)	1020(40.15)
Z axis travel	mm (in)	680(26.77)	870(34.25)	1000(393.70)
B axis indexing	degree	0.001	1 (Sth), 0.001 (OPT)	1 (Sth), 0.001(OPT)
Working table - Pallet:				
Pallet size	mm (in)	500 X 500(19.68 X 19.68)	630 X 630(24.8 X 24.8)	800 X 800(31.49 X 31.49)
Pallet load	kg (lb)	500(1102.31)	1200(2645.54)	1500(3306.93)
Workpiece max. dimension - Dia. * Height	mm (in)	750 X 1000(29.52 X 39.37) for 2 APC	10501000(41.33 X 39.37) for 2 APC	1300 X 1000(51.18 X 39.37) for 2 APC
Distance of pallet working surface to floor	mm (in)	1100(43.3)	1300(51.18)	1300(51.18)
Min. distance of spindle nose to table axis	mm (in)	100 - 780(3.93 - 30.7)	150 - 1020(5.9 - 40.15)	100 - 1100(3.93 - 43.3)
Min. distance of spindle axis to table surface	mm (in)	50 - 660(1.96 - 25.98)	75 - 975(2.95 - 38.38)	75 - 1095(2.95 - 43.11)
Pallet clamping force	kN	25 * 4 cones	25 * 4 cones	25 * 4 cones
Max. torque of B axis	Nm	3500	8000	8000
Feed system:				
Working feed/Rapid feed in X, Y, Z axes	mm/min (in/min)	60000(2362.2)	60000(2362.2)	50000(1968.5)
Working feed/Rapid feed in B axis	rpm	33.3	22	22
Cutting feedrate in X,Y,Z axes	mm/min (in/min)	20000 (787.4)	20000 (787.4)	20000 (787.4)
Spindle:				
Spindle Taper		BBT40	BBT50	BBT50
Max. Speed		40-15000rpm	20-12,000rpm	20-12,000rpm
Transmission type		Built-in	Built-in	Built-in
Spindle rate Power	kW	22(2min.)/18.5 (15min.)	30 (S2, 30min.), 25 (S1, cont.)	30 (S2, 30min.), 25 (S1, cont.)
Spindle rate Torque	Nm	200(2min.)/150 (15min.)	420 (S3, 25%), 238 (S1, cont.)	420 (S3, 25%), 238 (S1, cont.)
Automatic Pallet Changer:				
Number of Pallets	pcs	2	2	2
Pallet interchange time	sec	7	12	16
Automatic tool Changer:				
Number of tools	pcs	60	50	40

Specification / Machine model	unit	HMC500	HMC630	HMC800
with occupied adjacent tool pockets	mm (in)	95(3.74)	115(4.52)	125(4.92)
without adjacent tools	mm (in)	185(7.28)	300(11.81)	350(13.77)
Max. Length of tool	mm (in)	400(15.74)	600(23.62)	750(29.52)
Max. weight of tool	kg (lb)	8(17.63)	20(44.09)	30(66.13)
Tool interchange time (tool weight less than 12kg)	sec.	1 sec. (2.1 sec by heavy tool)	2.5 sec. (3.5 by heavy tool)	3.0 sec. (4.7 by heavy tool)
Chip to chip	sec.	3 sec. (3.5 sec. by heavy tool)	5.8 sec. (6.8 sec. by heavy tool)	6.2 sec. (7.2 sec. by heavy tool)
Tank capacity (Sth accesories):				
Hydraulic unit	liter	60	60	60
Coolant tank	liter	550	1000	1000
Lubrication tank	liter	1.8	3	3
Machine dimension (L*W*H)	mm (in)	4580X2720X3070 (180.31X107.08 X 120.86)	6870X4105X3364 (270.47X161.61X132.44)	6920X4070X3680 (272.44X160.23X144.88)
Machine weight	kg (lb)	12,000(26455.47)	18,200(40124.13)	29,000(63934.05)