



CLOCK EVO

THE NEW STANDARD IN HORIZONTAL MACHINING CENTERS



CLOCK EVO

CLOCK EVO line is characterised by a distinctive design that enhances the consolidated qualities of MCM machines and allows to contain the space occupied, without sacrificing the most advanced technology in chip removal. The working area is suitable for multiple configurations to satisfy every need. Ergonomics, subject to deep renewal, have been

brought to the highest levels with the operator station equipped with a touch screen and a new user interface. CLOCK EVO has a complete digital equipment according to the most innovative principles of smart manufacturing, including the analysis of data sent at high frequency by the sensors present in the machine.

			CLOCK 800 EVO	CLOCK 1000 EVO	CLOCK 1200 EVO
Process Technology			Milling / Turning ¹ / Grinding ¹		
Working Area	X-Axis Stroke	[mm]	800	1.000	1.200
	Y-Axis Stroke	[mm]	800	1.100	1.100
	Z-Axis Stroke	[mm]	800	1.000	1.000
	X/Y/Z-Axis Thrust	[kN]	8	12	13
	X/Y/Z-Axis Rapid Feed	[m/min]	75 / 60 / 75	75	75 / 60 / 75
	X/Y/Z-Axis Acceleration	[m/s ²]	7	7	7
Pallet	Option 1	[mm]	500 x 500	630 x 630	630 x 630
	Option 2	[mm]	500 x 630	630 x 800	630 x 800
	Option 3 ²	[mm]	Ø 630	Ø 800	Ø 800
Rotary Table (B-axis)	Max. Rotation Speed	[RPM]	60 / 1.200 ³	60 / 650 ³	25 / 650 ³
	Type		Tilting Table	Tilting Table	Tilting Table
5th Axis (A-axis)	Max. Tilting Speed	[RPM]	40	40	20
	Tilting Angle	[degrees]	140 (+35/-105)	140 (+20/-120)	135 (+25/-110)
Accuracy	<i>Linear Axes</i>				
	A/M/R as per ISO 230-2	[µm]	4 / 2 / 3	4 / 3 / 3	4 / 3 / 3
	<i>Circular Axes</i>				
	A/M/R as per ISO 230-2	[arcsec]	4 / 2 / 3	4 / 2 / 3	4 / 2 / 3
Spindle Unit	Tool-Taper		HSK-A100 / HSK-A63 / ISO 50 / ISO 40 / CAPTO C8 ³ / CAPTO C6 ³		
	Speed Range	[RPM]	from 8.000 up to 30.000		
	Max. Power (up to)	[kW]	65	65	65
	Max. Torque (up to)	[Nm]	690	690	690
Tool-Magazine	Capacity (up to) ¹	[No.]	80 (500)	80 (500)	80 (500)
	Tool Mass (up to)	[kg]	25	30	30
	Max. Length (up to)	[mm]	500	600	500
	Max. Diameter (up to) ⁴	[mm]	300	300	340
Machine Data	Indicative Footprint Area	[m ²]	36	50	73
	Indicative Weight	[kg]	19.000	25.000	29.500
Available Configurations			Single-Pallet / Twin-Pallet / Multi-Pallet / FMS		

Notes _ The data reported in this table are referred to a 5-axis machining center in twin-pallet configuration / ¹ Available as an option / ² Further Options Available / ³ Available for Multitasking machining centers only, turning max. speed depends on mass of component+fixture / ⁴ Free adjacent tool places

