

## EMMEDI MACCHINE UTENSILI SRL

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### MCM CLOCK 700 MP7



<b>MANUFACTURER</b>	<b>MCM</b>
<b>MODEL</b>	<b>CLOCK 700 MP7</b>
CATEGORY	Horizontal machining center
YEAR	2011
WORKING HOURS	51.000
CNC CONTROL	Fanuc 16-l
MACHINE WEIGHT (kg)	14.200 kg (without APC)
DIMENSIONS (larg. x profondità. x alt.) (mm)	
NUMBER OF AXIS	4
CE DECLARATION	YES
<b>SPINDLE</b>	
Cone dimension	HSK-A63
Max spindle speed (rpm)	12.000
Max spindle motor power (cont./30 minuti) (kW)	25 / 33,8
Head bearing diameter (mm)	85
Max torque (cont./peak) (Nm)	159 / 215
<b>CAPACITIES</b>	
X axis (mm)	700
Y axis (mm)	650
Z axis (mm)	700
Max piece size (diam. x height) (mm)	Ø 800
<b>TABLE</b>	
Dimension (mm)	500 x 500
Load capacity (kg)	550
Rotation	Continuous (3.600.000 positions)
<b>MULTIPALLET (APC)</b>	
Number of station	6 + 1
Number of loading & unload. Position	1
Pallet changer	2 positions
Rotation max encumbrance (mm)	Ø 800
<b>FEEDRATES</b>	
Rapids X/Z axis (mm/min)	75.000
Rapids Y axis (mm/min)	60.000
Max thrust (daN)	1.000
X,Y,Z axis scale system	Pressurized optical scale (Heidenhain)
B axis scale system	Encoder (Heidenhain)
<b>TOOL CHANGER</b>	
Tool cone	HSK-A63
Tool storage capacity	295
Max tool weight (kg)	8
Tool change time (chip to chip) (s)	4,5
Regeneration time (min/max) (s)	7 - 13
<b>OTHER CHARACTERISTIC</b>	
Coolant system for spindle line	
Through-spindle coolant system	
Air coolant system for the electrical cabinet	
Lamp for working area	
Internal chip conveyor (auger type)	
External chip conveyor (scrape type), rear disposal	
Coolant tank: 750 litres with filtering system (3 filters: 500 micro-m and 40 micro-m)	



## ACCESSORIES

Top cover with mist aspiration set-up
Automatic washing system of the part (activated by M-function)
Tool cone washing system with high pressure coolant (activated by M-function)
Oil separator
High pressure coolant system (65 bar) with continuous variation from 10 to 65 bar
Laser tool presence detection
Compensation of thermal deformation of the spindle (Z axis)
Tool monitor MCM: spindle power measurement (min resolution +/- 100 W)
Marposs probe (MIDA T36) for dimensional measurement and zero part.
Automatic coolant refill
JFMX supervisor system
- monitor of complete machine and report generation
- manufacturing management
- interface between CAD-CAM and machining center
- remote assistance
- BALLUFF tool management system
- Network Part Program



