

Article Details	
Reference Code	IT144
Manufacturer / Brand	COMAC MACCHINE srl (Via Balzella 75, Forlì, FC - Italy)
Equipment Type	5-Axis CNC Machining Center (Centro di Lavoro CNC a 5 Assi)
Model	MF 50.20 5A
Serial Number (Numero di Serie)	385
Year of Manufacture	2009 (12/2009)
Operating Status & Availability	Installed on-site / Fully Operational / Available on request

Technical & Electrical Specifications	
Power Supply & Frequency	400 VAC / 50 Hz / 3-Phase (3 PH)
Installed Power / Total Weight	33 kW / Total Machine Weight: 9,000 kg
Electrospindle Unit	HSD ES779 4P (12.0 kW) Liquid Cooled, Max 24,000 RPM, HSK F63 Connection
Working Area Dimensions	5,000 x 2,000 mm Aluminium Grid Vacuum Table (Dual Foot-Pedal Control)
Axis Configuration	5 Intersecting Interpolating Axes (X, Y, Z, C, A)
Tool Changer System	Revolver Rotary Automatic Tool Changer Carousel (12 Positions, HSK F63)
Drilling Head Group	Independent Boring Head with 11 Spindles (Vertical/Horizontal Drilling)
Dust Extraction Setup	✓ Centralized Upper Dust Extraction Hood with Flexible Hoses over Main Head & Boring Unit

Plant Components & Features	
5-Axis Milling Head	High-precision HSD 5-axis operating head (C & A continuous axes) for 3D routing, shaping, beveling, and complex component machining.
High-Power HSD Electrospindle	HSD ES779 4P 12 kW liquid-cooled spindle unit (24,000 RPM max, S/N 2007005793) designed for heavy-duty timber and composite routing operations.
Aluminium Grid Table Bed	Large-scale 5000x2000 mm matrix grid table optimized for versatile vacuum clamping, zone management, and nesting processes.
Boring & Drilling Head	Multi-spindle L-shaped drilling unit (7 vertical + 4 horizontal spindles) for precise line-drilling and side jointing preparation.
Rotary Tool Carousel	12-position revolving tool magazine mounted on gantry structure for rapid tool changeover with HSK F63 toolholders.
Machine Ergonomics & Safety	Gantry structure with cable chain carriers, dual foot-switch controls, remote push-button pendant, and perimeter safety fencing.