

iCAM

Total CNC Solutions

5 Axis Profile Machining Centre



BUILT IN NEW ZEALAND BY CAM SYSTEMS LTD

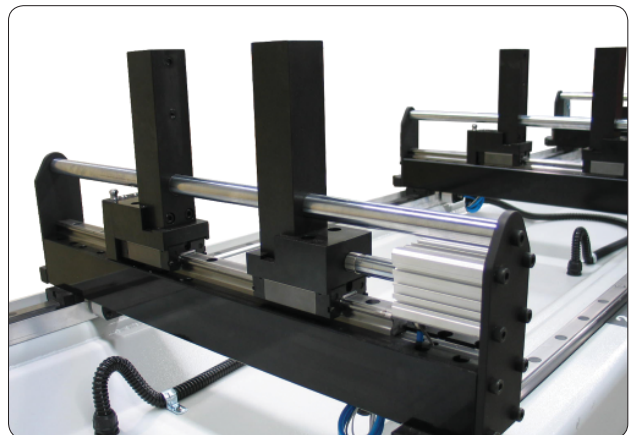


OSAI CONTROL SYSTEM

The OSAI control system utilises a full digital Servo system eliminating the problems associated with analogue systems. Rapids, feed rates and spindle rpm are all changeable on the fly, giving the operator ultimate control.

WORK-PIECE CLAMPS

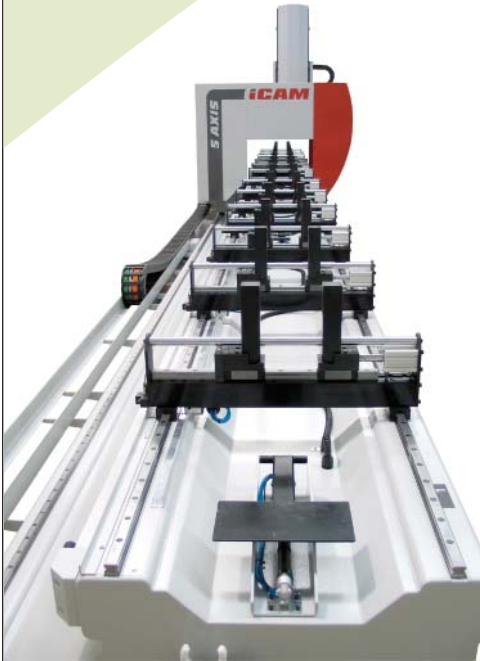
Pneumatic clamps hold the profile in place for processing. These clamps are positioned automatically by the CNC ensuring set-up is fast and accurate. The CNC scans to find the clamps then moves them to the new specified position.



MULTI AXIS SPINDLE HEAD

The HSD Spindle assembly is a twin pivot design that offers ultimate rigidity. The spindle unit is fitted with ceramic bearings and is liquid cooled, allowing a 100% duty cycle. A standalone refrigeration unit keeps the spindle at a constant cool temperature, ensuring a long service life.

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Technical specification – Model PMC 5600 / 51200

Control System	Controller	OSAI 510i
Motors & Drives	Type	OSAI Digital – all axes
Multi Axis Head	Type	HSD Twin pivot
	Pivot angles	A Axis: +/- 120 degrees
		C Axis: +/- 213 degrees
Spindle	Model	HSD ES779L
	Power	12.0kW, (16HP) – 4 Pole
	Cooling	Liquid – Through refrigeration unit
	Tool Connection	HSK 63F
	Speed	24,000rpm max.
Tool Changer	Type	Rotary – Gantry mounted
	Capacity	12 Tools
	Max. Tool Dia.	120mm (400mm with less tools loaded)
Profile Clamps	Clamping	Pneumatic – Adjustable pressure
	Positioning	Automatic by CNC
	Clamp Distance	400mm Max. Between jaws
Linear Travel	Z Axis	650mm, Vmax 25m/min
	Y Axis	1,100mm, Vmax 50m/min
	X Axis	6,500mm, Vmax 60m/min (model PMC 5600)
		12,500mm, Vmax 60m/min (model PMC 51200)
Optional	Tool Lubricator	Micro mist unit - Single nozzle
	Aggregate	Right angle for underside processing
	Tool Chucks	HSK 63F – 462E Collets
	Saw Chuck	HSK 63F (max. diameter 400mm)
	Light curtain	Single & Dual zones available
Electrical Requirements	Connected power	400v / 50hz
	Total Load	25kw
Compressed Air Requirements	Operating pressure	7 bar
	Air Consumption	100-200 l/min

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