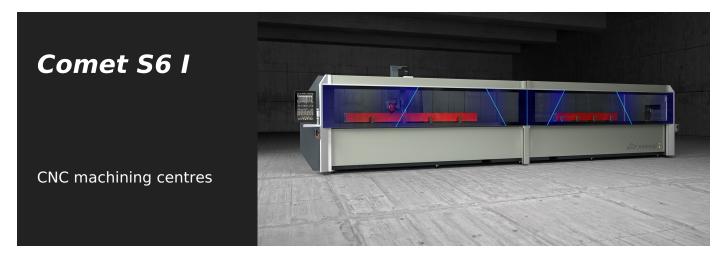


01/12/2025





4-axis CNC machining centre designed for working bars or parts in aluminium, PVC, light alloys in general and steel. It is equipped with two operating modes: a single work area for bars up to 7 m length or two independent work areas in double mode. The machine is equipped with independent motorized vices that allow positioning the vices in concurrent operation time during the operation in dynamic pendular mode. The 4th NC axis allows the electrospindle to rotate from -120° to +120° on the horizontal axis and position itself at any intermediate angle. The machine can therefore perform machining operations on the top and on all side faces of the profile at any angle within the range. It is equipped with a 12-place tool magazine on board the X axis slide, with provision for accepting one angle machining head and a side milling cutter in order to be able to machine on the 5 faces of the workpiece. It also has a mobile work table that facilitates the workpiece loading/unloading operation and significantly increases the workable section.

TECHNICAL SHEET

01/12/2025





4 axes electric head -S-

The 8.5 kW electrospindle in S1 with high torque also enables performing the heavy machining typical of the industrial sector. A 10.5 kW electrospindle with encoder for rigid tapping is available as optional. Electrospindle rotation along A axis allows working on 3 sides of the profile, with no need of repositioning.



Operator interface

The possibility of rotating the monitor on its vertical axis allows the operator to view the screen from any position. The user interface has a 24" touchscreen display in 16:9 format, portrait mode, equipped with the necessary USB connections for PC and CNC remote interfaces. It also features an operator panel, mouse, and it is set up for connecting barcode reader and remote operator panel.



Dynamic double operation

The innovative machining mode allows minimising downtimes when loading and unloading the workpieces to be machined. The system allows, in the two distinct and independent work areas, to simultaneously carry out the loading/unloading of extruded profiles on one side, and machining of workpieces on the other, with different lengths and/or codes.



Motorized vices

The motorized vices, each equipped with its own motor, can be positioned independently in the work area. The CNC manages the movement of vices and that of electrospindle head simultaneously, in the two different work areas in double operation mode. This enables significant productivity gains. Using absolute reference axes allows reducing the initialisation time required every time the machine is restarted.



Tool magazine

The tool magazine is integrated on the X axis, in the lower part and behind the electrospindle. It allows great reduction of tool change times. This function is particularly useful in the extrusion head and tail machining, avoiding the stroke to get to the magazine, as it moves simultaneously with the electrospindle and its positions.



Foldaway tunnel (Optional)

Integrated with the machine's aesthetics and design, thanks to the perforated sheet metal for transparency and lightness, the tunnel opens and closes as needed. As its length can be reduced when not in use, it helps save space at the workshop. The outlet for the chip conveyor belt and its engine are built into the lower section, in view of an aesthetic and functional design.



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The right to make technical alterations is reserved.



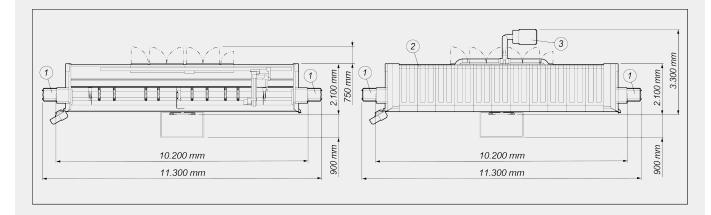


COMET S6 I / CNC MACHINING CENTRES

LAYOUT

The overall dimensions may vary depending on the product configuration.

- Chip conveyor and swarf drawer (optional)
 Cabin enclosure (optional)
 Fume extraction system (optional)



2.590 Machine height (maximum Z-axis extension) (mm) Machine height with top cover (mm) 2.710

X AXIS (longitudinal) (mm)	7.340
Y AXIS (transversal) (mm)	1.000
Z AXIS (vertical) (mm)	450
A AXIS (rotation on electrospindle horizontal axis)	-120° ÷ +120°

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				433

8,5
10
24.000
HSK - 63F
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With angle machining head (side faces and heads) With blade tool (upper face, side faces and heads) With direct tool (upper face and side faces) 3

WORK AREA

1F = 1 face machining 5F = 5 faces machining 1F = 1 face machining 5F = 5 faces machining 5F = 5 faces machining

	Α	_										
	A	В	С	D	E	F	X1	Y1	Z1	X2	Y2	Z2
	60	130	50	245	100	250	6.880	300	215	6.880	250	215
lh	60	130	50	245	100	250	3.250	300	215	3.120	250	215
rh	60	130	50	245	100	250	2.785	300	215	2.645	250	215
lh	60	130	50	245	100	250	2.970	300	215	2.840	250	215
rh	60	130	50	245	100	250	3.065	300	215	2.925	250	215
	rh Ih	Ih 60 rh 60 Ih 60	Ih 60 130 rh 60 130 Ih 60 130	Ih 60 130 50 rh 60 130 50 Ih 60 130 50	Ih 60 130 50 245 rh 60 130 50 245 Ih 60 130 50 245	Ih 60 130 50 245 100 rh 60 130 50 245 100 Ih 60 130 50 245 100	Ih 60 130 50 245 100 250 rh 60 130 50 245 100 250 Ih 60 130 50 245 100 250	Ih 60 130 50 245 100 250 3.250 rh 60 130 50 245 100 250 2.785 Ih 60 130 50 245 100 250 2.970	Ih 60 130 50 245 100 250 3.250 300 rh 60 130 50 245 100 250 2.785 300 Ih 60 130 50 245 100 250 2.970 300	Ih 60 130 50 245 100 250 3.250 300 215 rh 60 130 50 245 100 250 2.785 300 215 lh 60 130 50 245 100 250 2.970 300 215	Ih 60 130 50 245 100 250 3.250 300 215 3.120 rh 60 130 50 245 100 250 2.785 300 215 2.645 Ih 60 130 50 245 100 250 2.970 300 215 2.840	Ih 60 130 50 245 100 250 3.250 300 215 3.120 250 rh 60 130 50 245 100 250 2.785 300 215 2.645 250 Ih 60 130 50 245 100 250 2.970 300 215 2.840 250

Dimensions in mm

The application of an angular unit reduces the working capacity in Z to 190 \mbox{mm}

TAPPING CAPACITY (with Tap On Aluminium And Through Hole)

With compensator M8

•
12
8
6







AUTOMATIC TOOL MAGAZINE ON BOARD THE GANTRY Maximum number of magazine tools Maximum length of the tool that can be loaded into the magazine (mm) 12

Multi-piece operation Basic multi-step machining - up to 5 steps Automatic management of multi-step mode machining Extended machining, up to twice the maximum nominal length in X Multi-piece mode machining in Y Workpiece rotation for machining on 4 sides Dynamic double operation

Included • Available \circ