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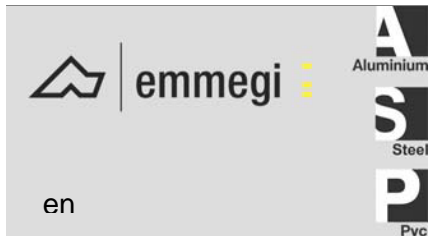
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TECHNICAL SPECIFICATIONS OF

COMET R4

5-axis machining centre



Comet R4

5-axis machining centre

Vices 01

Electrospindle 02



5-axis CNC machining centre used for the machining of bars or aluminium, PVC, light alloys in general and steel workpieces up to 4 m in length.

The 4th and 5th axis allow the electrospindle to continuously rotate to NC from -15° to 90° on horizontal axis and from -360° to $+360^{\circ}$ on continuous vertical axis, to perform the work on the upper side and on all the lateral sides of the profile.

It is equipped with a 12-place tool magazine, on the X axis gantry, able to host also one milling disc.

It also has a mobile work table that facilitates the workpiece loading/unloading operation and significantly increases the workable section.

Operator interface 03

Tool magazine 04

Pneumatic stops 05



The images are only given for illustrative purposes

Comet R4

5-axis machining centre

01 Vices	02 Electrospindle	03 Operator interface	04 Tool magazine	05 Pneumatic stops
<p>The machine software can calculate the correct positioning measure for each vice unit, according to the length of the workpiece and to the type of machining to be performed. The automatic positioner allows picking all vice units and moving them by means of the gantry. This operation is performed at the highest speed and with great precision and spares longer time and collision risks, so that the machine can also be easily used by less experienced operators.</p>	<p>8.5 kW S1 high torque electrospindle also allows heavy duty machining, which is typical in industrial processing. As an option and for higher performances a 10.5 kW encoder equipped electrospindle is available for rigid tapping. Electrospindle rotation along B and C axes allows working on 5 sides of the profile, with no need of repositioning. It can be used for some types of steel extrusions as well as for aluminium profiles, thanks to the software-adjusted lubricating system. With its double tank it allows either minimum oil circulation or oil emulsion spray-mist.</p>	<p>The new control version with suspended interface allows the operator to look at the monitor from any position, as it can be rotated around the vertical axis. The operator interface is provided with a 24", 16:9 sized, portrait mode touchscreen, equipped with all necessary USB connections for PC and NC remote interfaces. It is also provided with keyboard and mouse and with barcode and remote keyboard connections. IT IS equipped with a front USB port for exchanging data.</p>	<p>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 travel to get to the magazine, as it moves simultaneously with the electrospindle and its positions. The magazine can contain up to 12 tool holders with relevant tools, which can be set at the operator's discretion. Each position of the tool holder is provided with a sensor detecting the correct cone position.</p>	<p>The machine is equipped with strong stops allowing bar reference. One is positioned on the left side (standard) and the other on the right side (optional). Each stop is activated by a pneumatic cylinder, it is retractable type and is automatically selected by the machine software according to the machining to be performed. In short, double stop offers the advantage to load more profile pieces for multi-piece mode machining as well as the possibility to reposition the bar or the piece and perform machining on particularly long profiles.</p>