

TECHNICAL
SPECIFICATIONS

X axis strokes (mm)	1800, 2600, 3100
Y axis strokes (mm)	1580 and later 1500-pitch modules
Z axis strokes (mm)	900, 1200
A axis stroke	± 120°
C axisstroke	± 270° / ± 365°
Speed (m/min)	84 (X/Y), 40 (Z), 40rpm (A, C)
Tables	• fabricated metal grid • phenolic (with vacuum) • aluminium (with/without vacuum, flat or machined) • T-slots • hybrid table (vacuum + mechanical clamping)
Loading/Unloading	• single working area • twin shuttle/rotating tables, for loading/unloading outside the enclosure
Electro spindles	• 10/12 KW(S1/S6) • 15/18 KW (S1/S6) • 25/30 KW (S1/S6) 24,000 rpm, HSK 63 All electrospindles are liquid-cooled - tool holder: HSK-63F(A)
Specific devices	The machine is predisposed for: • bellow covers for guide protection • toolsetter • auto calibration of the head geometry • minimal Quantity Lubrication for tool cooling
Automatic Tool Changer	The machine is predisposed for: • magazines of 8, 16, 24 protected positions • specific magazines for special units (knives, discs, ultrasonic tools, etc.). • special magazines for extra oversized tools/units
Dust extraction and scrap conveyors	The machine is predisposed for: • full enclosure with roof + interior lighting • dust extraction hood with variable length position, from NC • scrap conveyors • removable scrap-collecting drawers under the work areas • de ionizer
Integrations	• 3D printing system integration • Industry 4.0, HMI dashboard with alarms and max./min. threshold values of all critical components (current, torque, temperature servo drives, spindle, coolant pumps, vibration, sensors, tool value control) • 5-axis part measurement and report generation



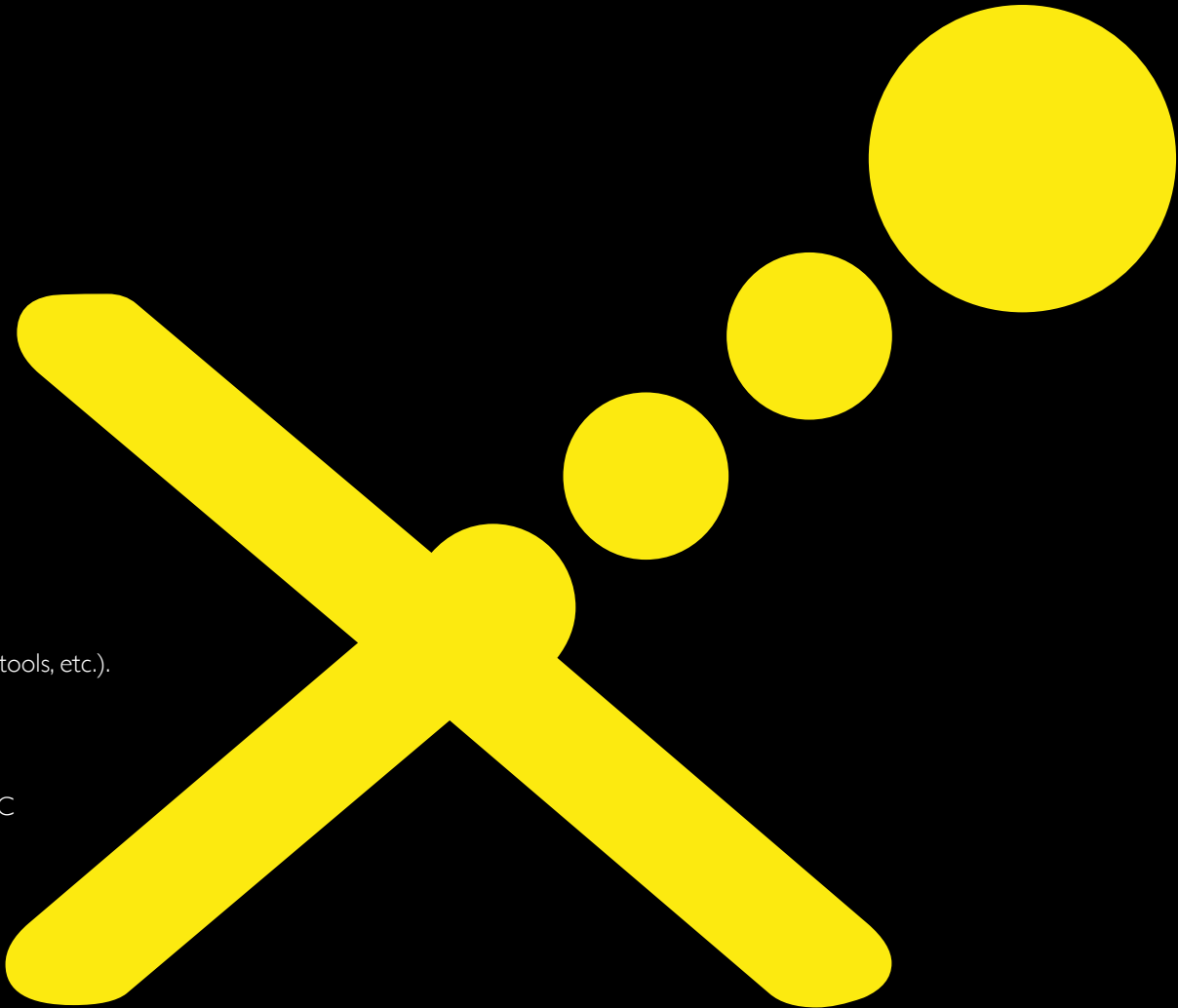
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P SERIES:
MOVING BRIDGE >
TRASVERSAL GANTRIES



The most intelligent and compact 5-axis NC machining center, with monolithic closed-cell structure, designed with moving bridge, conceived for high-level performance. The gantry is driven by double master/slave drive, which, thanks to perfect synchronization in the movement of the two ends, allows parallelism of movements, resulting in reduced vibration and extreme precision in high-speed machining. The basic fabricated structure of the P Series, thanks to its modular design, has three bridge sizes and in depth can be extended with 1.5-meter pitch modules, creating an infinite combination of sizes.

There are many options and accessories available to configure this machining center in ever-changing ways and thus, to meet extremely specific requirements. For example, to minimize dust from composite materials, the P series can be equipped **with variable-length suction hood** around the spindle nose, or **coolant misting (minimal)** and chip conveyors are used when high-speed aluminum machining is common.

When it is needed to further lower the thermal loads induced by the heaviest machining, the P Series can also be configured to **work in a wet environment**, with a cutting fluid recirculation pump, setting tank and filtration. Other applications perfect for this family of machines include machining of components made of honeycomb material, configuring the machine in a hybrid mode to work with both rotating tools and blades or discs on **ultrasonic heads**, which bring a number of advantages.

Finally, the P Series is one of the machines set up to integrate **3D printing** capabilities in addition to classical CNC milling functions, giving rise to additive/ultrasonic hybrid configurations to take advantage of the benefits of both these technologies.



P SERIES

