

NOVA SERIES

STURDY AND RELIABLE MULTI-AXIS MACHINING CENTER FOR MILLING DIFFERENT SIZED PRODUCTS AND PROFILING LARGE SCALE PARTS OUT OF ALUMINIUM, TECHNICAL PLASTIC AND COMPOSITE PANELS.



Workable materials*

ALUMINIUM PANELS



TECHNICAL PLASTIC



COMPOSITES



TOOLING BOARDS RESINS



* Efficiency indicators by material

Belotti NOVA Series is the result of the long experience achieved in over 40 years of activity in the production of 3 and 5-axis machining centers.

NOVA Series represents the answer to the strong demand of the leading industries in the packaging, checking fixtures, aerospace and automotive sectors.

These multi-axis CNC centers consist of a sturdy monolithic structure equipped with double slideways on both sides of the baseframe, which guarantee **maximum rigidity of the gantry during the operations.**

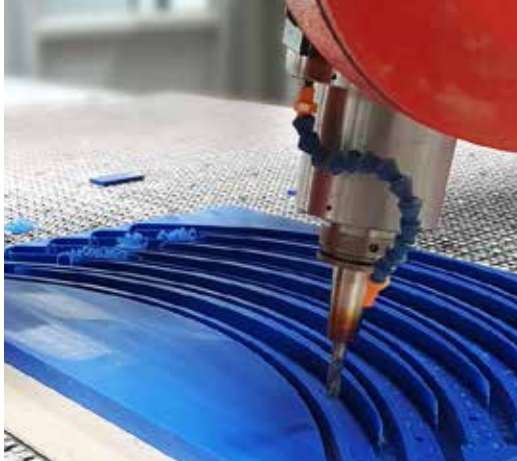
The mobile bridge and the presence of a double motor on both sides (Dual Drive System) allow the machining of large pieces, while preserving the quality of the series.

Available with 3-axis and 5-axis heads, **Belotti NOVA centers can process various materials** such as **aluminium, light alloys, composites** and **technical plastics**, ensuring high performances thanks to the electrospindles and top-of-the-range clamping systems. The 5-axis head, optional, compact and equipped with axis locking brakes and encoders, allows the **machining of parts with complex shapes, guaranteeing quality and precision.**

Main accessories

- Dual Drive system and linear scales [3]
- Double performance head 3-5 axis [1]
- Electronic suction hood for 3-axis head
- CSRS - Caterpillar Stack Routing System
- Minimal lubrication system through the spindle
- Perimeter enclosure
- CAD/CAM easy programming software





Application sectors



Technical features

Axis	X	Y	Z	C	A
Stroke	2/3/4/5/6/10 m	1,6/2/2,5/3 m	0,3/0,5 m	+/- 270°	+/- 120°
Speed	50 m/min		30 m/min	44 rpm	40 rpm
Spindle	From 15 kW up to 30 kW at 30.000 rpm max.				
CNC	Fanuc, Heidenhain, Siemens				
Tool changer	From 12 to 60 positions, also with exchange arm				
Linear accuracy	< 0,009 mm/m for linear axes				
Rotary accuracy	+/- 12 arcsec for rotary axes				
Measurement system	Linear scales, 5 micron resolution				