

NAVY SERIES

ADVANCED AND VERSATILE SOLUTIONS DESIGNED TO MEET THE NEEDS OF THE MARINE INDUSTRY AND LARGE PATTERNS MAKERS.



Workable materials*

TOOLING BOARDS RESINS

100 %

COMPOSITES

90 %

* Efficiency indicators by material

Belotti NAVY CNC centers are 5-axis machines geared to the shipyards and patterns makers' production requirements. The wide range of models in terms of dimensions and configurations allows to **process both patterns and final/structural parts of a medium-size boat**: from **cutting resin models** up to **trimming fiberglass hulls, decks and other high resistant composite materials**.

The rigid, cartesian structure, featuring a suspended bridge, is designed to offer a unique combination of performances: **short processing times, flexibility, top-quality surface finishes and durability**.

The production capacity can be further increased with a second independent bridge for simultaneous machining operations on different pieces or on the same piece.

Total enclosures, dust suction grids, push and pull systems and active/passive safety devices assure a safer and cleaner working environment.

Main accessories

- Single shoulder head
- Telescopic Z axis [2]
- Second independent bridge [4]
- Dust suction grids
- Tool changer [3]
- Suction hood
- Push and pull system with extraction unit
- Total enclosure [1]
- Upper rolling shutter [1]



1



2



3



4



Application sectors



Technical features

Axis	X	Y	Z	C	A
Stroke	2,6/6/8/12/17/20/23/30/43 m	3,2/4,2/5,2/6,2/7,2/8,8 m	1,5/2/3/3,3/4,2/5,3/6,9 m	+/- 270°	+ /- 120°
Speed	100 m/min		45 m/min	44 rpm	40 rpm
Spindle	From 15 kW up to 42 kW at 24.000 rpm max.				
CNC	Fanuc, Heidenhain, Siemens				
Tool changer	From 16 to 60 positions				
Linear accuracy	≤ 0,035 mm/m for linear axes				
Rotary accuracy	+/- 24 arcsec for rotary axes				
Combined technologies	Additive manufacturing				