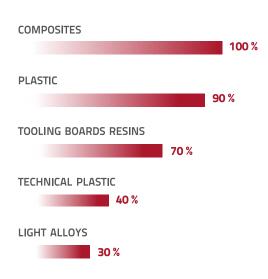
# **FLA SERIES**

HIGH-SPEED MACHINING CENTERS FOR HIGH-VOLUME TRIMMING OF COMPOSITE MATERIALS AND FOR MILLING RESIN OR LIGHT ALLOYS PATTERNS.



#### Workable materials\*



\* Efficiency indicators by material

Belotti FLA 5-axis CNC machining centers combine the productivity of a high-speed milling machine and the potential of a mobile bridge machining center in a single solution.

FLA Series is particularly recommended for:

- the mass production trimming of components in composite materials;
- the milling of resin and light alloys products/patterns;
- the trimming of thermoplastic materials.

The different models, the high customisation of the configurations, and the special technical features suite a wide range of production needs, especially in the automotive and aerospace contexts.

FLA machining centers guarantee the maximum production efficiency thanks to the excellent dynamism of the axes and the automated loading / unloading systems (rotary table, single shuttle or twin shuttle).

#### Main accessories

- Single or twin shuttleloading/unloading system [1]
- Rotary table
- Dust suction grids with dedicated extraction unit [4]
- Electronic suction hood [2]

- Linear scales
- Total enclosure or manual/motorised upper rolling shutter
- Cooling liquid system with waste collection tanks [3]
- Second independent bridge [3]















## **Application sectors**





### **Technical features**

Axis	X	Υ	Z	С	А
Stroke	3/4/5/5,5/6,5/9/12 m	1,8/2,6/3,2 m	0,9/1,3/2 m	+/- 270°	+/- 120°
Speed	80 m/min		60 m/min	44 rpm	40 rpm
Spindle	From 6,5 kW up to 22 kW at 24.000 rpm max.				
CNC	Fanuc, Heidenhain, Osai, Siemens				
Tool changer	From 8 to 60 positions				
Linear accuracy	≤ 0,030 mm/m for linear axes				
Rotary accuracy	+/- 24 arcsec for rotary axes				
Measurement system	Linear scales, 5 microns resolution				
Combined technologies	Waterjet   Ultrasonic cutting system   Additive manufacturing				