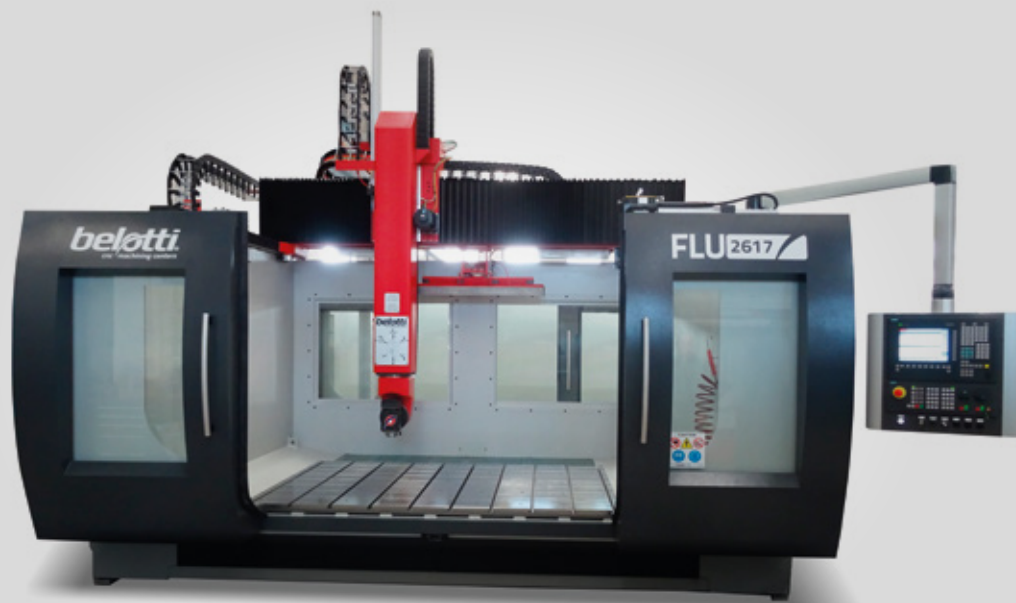


COMPACT AND FLEXIBLE SOLUTION FOR COMPOSITE AND ALUMINUM



- **Monolithic structure** to enhance **accuracy** during high-speed milling operations and **long-lasting stability**.
- Particular design suitable for **easy access of the total working area** with over-head crane.

APPLICATIONS

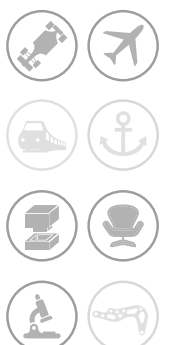
High-speed milling and trimming of composite materials as well as machining of aluminum patterns and molds, constantly guaranteeing high performances.

AUTOMOTIVE & MOTORSPORT - Carbon fiber and fiberglass

PATTERN AND MOLDS - Aluminum, resins and styling clay

DESIGN AND FURNITURE - Composites and plastic materials

Axis	X	Y	Z	C	A
Stroke	2,6 / 4 m	1,7 / 1,8 / 3,2 m	1 / 1,3 m	+/- 270°	+/- 120°
Speed	80 m/min		60 m/min	44 rpm	40 rpm
Spindle	From 15 kW up to 22 kW at 24.000 rpm maximum				
CNC	Siemens, Heidenhain, Fanuc				
Tool Change	From 8 to 60 Positions, also with exchange arm				
Linear accuracy	≤ 0,03 mm/m for all linear axis				
Rotary accuracy	+/- 12 arc sec for rotary axis				
Measurement System	Heidenhain glass linear scales, 5 microns resolution				



MAIN FEATURES

CNC

Siemens Sinumerik 840 D Solution Line with handheld terminal HT8 and Spline function

TABLE

Steel table with T slots 22mm H12.

HEAD

HP2 Performance head equipped with 15 kW electrospindle HSK A63 at maximum 20.000 rpm, Heidenhain direct drive encoder and rotary axis pneumatic locking system

TOOL CHANGER

18-position carousel

ENCLOSURE

Perimeter enclosure with manual upper rolling shutter

MEASURING SYSTEMS

SDS System, 3D measuring probe RMP60 set up

OTHER EQUIPMENTS

Spray mist cooling system; Heidenhain linear measuring system; 30-position chain tool changer; 22 kW electrospindle at maximum 24.000 rpm and direct drive encoder; high or low pressure liquid coolant systems



Carbon fiber machining



Resin model milling



Aluminum machining



Wet carbon fiber machining
with coolant



Carousel tool change
18/24/30 pockets

TECHNICAL FEATURES

AXIS	TYPE	STROKE	POSITIONING PRECISION	REPEATABILITY	SPEED
X	Linear / rack and pinion	2.600 mm	0,025 mm	0,015 mm	80 m/min
Y	Linear / rack and pinion	1.700 mm	0,020 mm	0,012 mm	80 m/min
Z	Linear / rack and pinion	950 mm	0,016 mm	0,01 mm	60 m/min
C	Rotary	+/-270°	24 arcsec	12 arcsec	44 rpm
A	Rotary	+/-120°	24 arcsec	12 arcsec	40 rpm

Main characteristics and data refer to model FLU2617. Other configurations are available: FLU4018, FLU4026, FLU4032.