

Milling + 3D printing  
All in one gantry solution



By **belotti** **CEAD**  
cnc / machining centers



## ABOUT

### Belotti S.p.A.

Belotti S.p.A. located in Suisio Italy, is a 40-years experienced leader in the design, manufacturing, marketing and sales of 3 and 5 axis CNC milling centers for composites, light alloy and advanced material.

Belotti helps the customer to enhance their performances, the quality of finished materials and components and the operations' reliability. Along its 40-years-long story, Belotti's technical team constantly develops cutting-edge and customized solutions, taking into account each detail in order to meet customers' highest requirements.



### CEAD B.V.

CEAD B.V., located in Delft, The Netherlands, was founded in 2014. Where they first developed all kind of machines specific for the customer, they started focussing on solely large scale 3D printing technology back in 2017.

Today, CEAD is on the frontier of large scale composite additive manufacturing. With passion for technology and innovation, the CEAD team is driven to find creative solutions. Multiple 3D printing solutions are brought to the market and are used world wide.



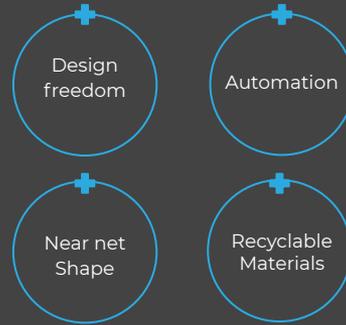


# PARTNERSHIP

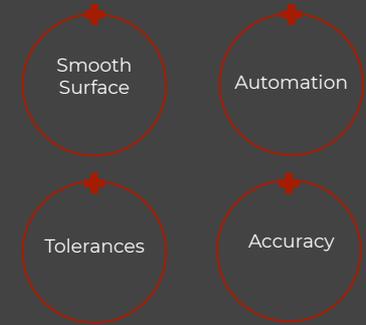
By itself, large-scale additive manufacturing can not deliver the finish and tolerances subtractive manufacturing offers. On the other hand, subtractive manufacturing is accompanied by a lot of waste, which large-scale additive manufacturing is not. Combining these processes already gives the best of both worlds: making it possible to 3D print the near net shape of a part and afterwards milling it to the required tolerances with a CNC milling machine.

A strategic worldwide partnership between Belotti and CEAD is established to combine expertise of additive and subtractive manufacturing into one solution. The acquired know-how and experiences in both fields, combined with the innovative drive of both companies is the strong basis of the partnership.

## 3D printing



## CNC milling



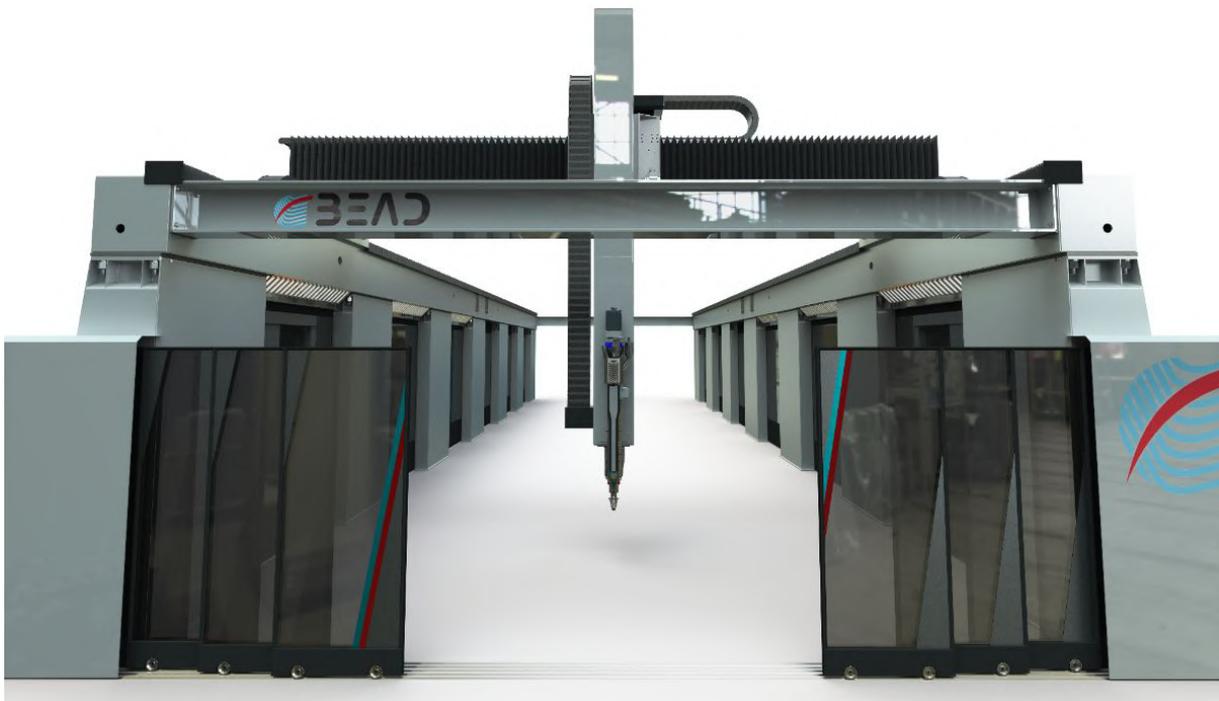
## All in one solution





BEAD

ALL IN ONE SOLUTION



Dimensions

X : 6000 to 50000 mm

Y : 2600 to 11000 mm

Z : 1500 to 5000 mm

Control

Control system: Siemens Sinumerik CNC



BEAD

ALL IN ONE SOLUTION



#### Milling

Tool change position: 8 to 60 positions

Milling spindle: 15 to 30 kW

Milling Accuracy: 0.02 mm/m

#### Printing

Extruder temperature: 400 °C

Extruder output: 12 - 80 kg /hr



# APPLICATIONS AND INDUSTRIES

- Plugs
- Molds
- Autoclave molds and tooling



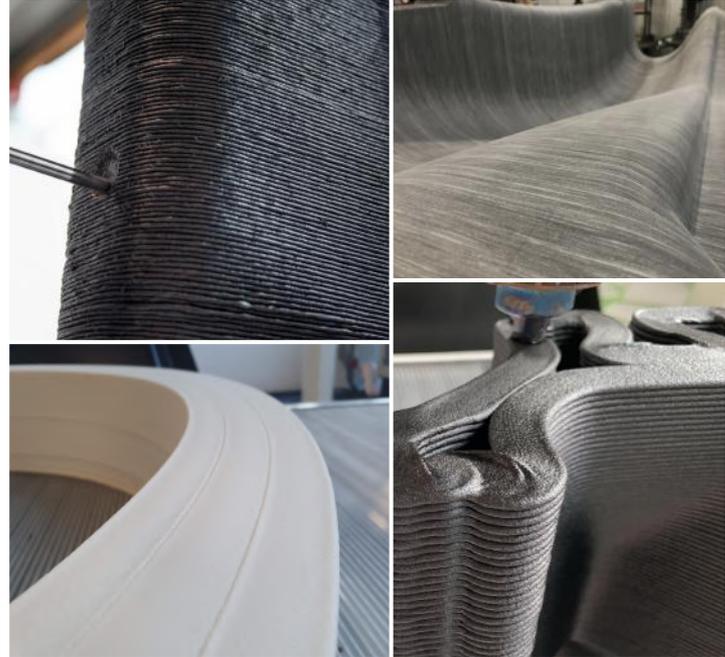
**Maritime**



**Aerospace**

Thermoplastic polymers:  
Commodity materials like PP, ABS, ASA, PETG, PC  
High performance materials like PPS, PESU, PEKK PEEK

Fiber reinforcement:  
Glass, carbon, natural up to 50%





CONTACT

**Belotti S.p.A.**

Via San Giovanni Bosco 12  
24040 Suisio (BG), Italy  
+39 035 493 44 11  
[www.belotti.com](http://www.belotti.com)

**CEAD B.V.**

Turbineweg 18  
2627 BP, The Netherlands  
+31 (0) 15 737 01 83  
[www.ceadgroup.com](http://www.ceadgroup.com)

