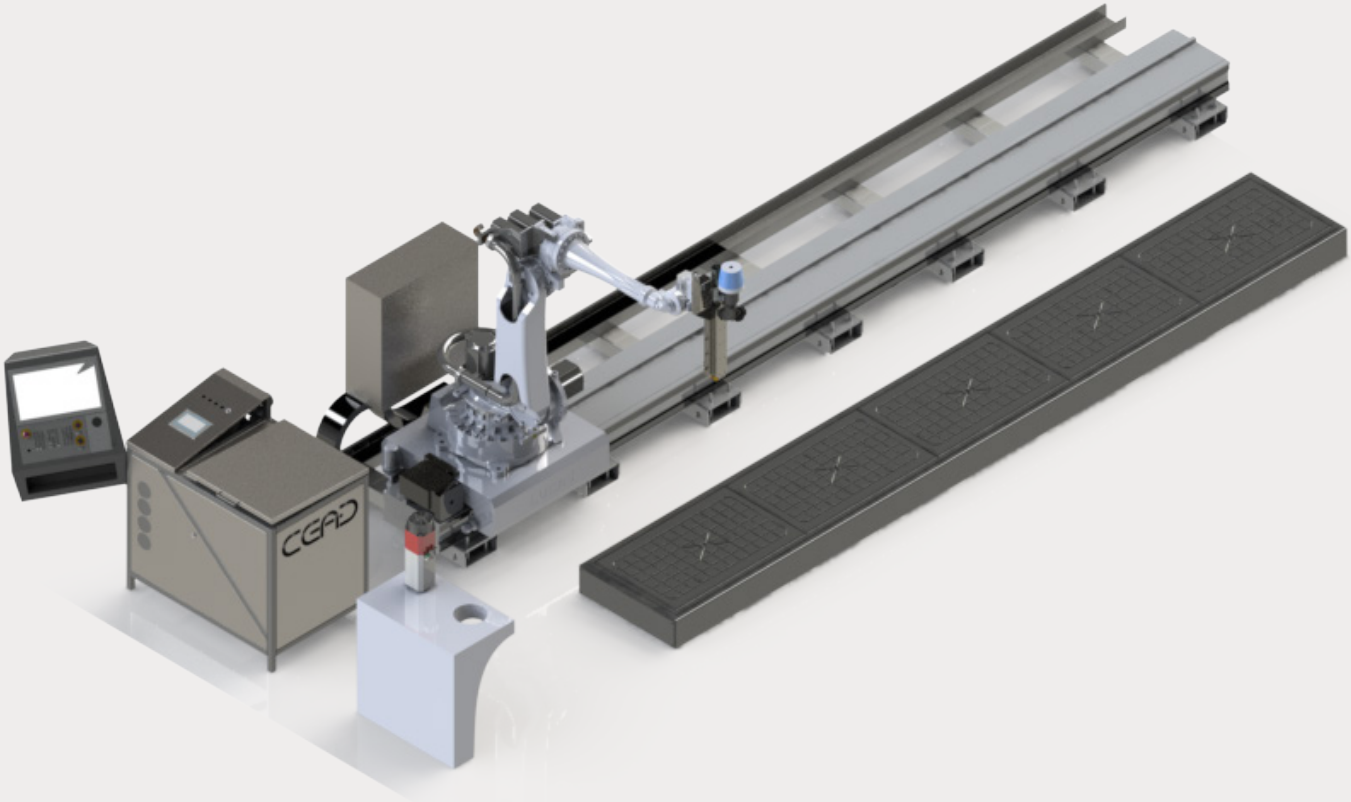
AM FLEXBOT



CEAD

Composite Additive Manufacturing

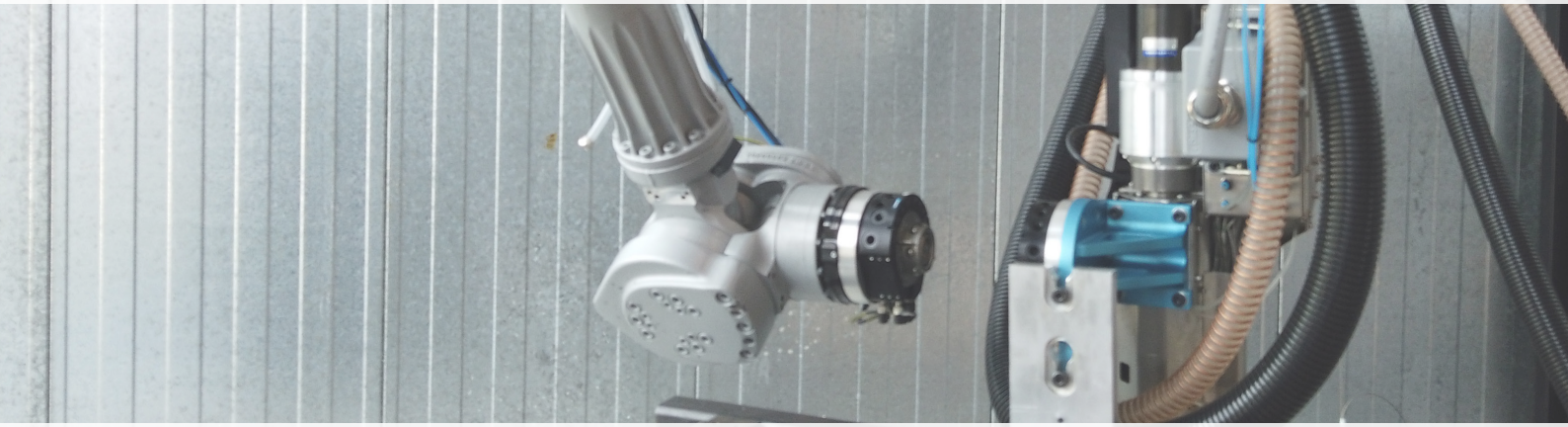
AM FLEXBOT

The AM flexbot is a flexible robot based solution for large scale additive manufacturing. This versatile system provides lots of options which can be integrated to configure the system to your specific needs.

MODULAR SYSTEM

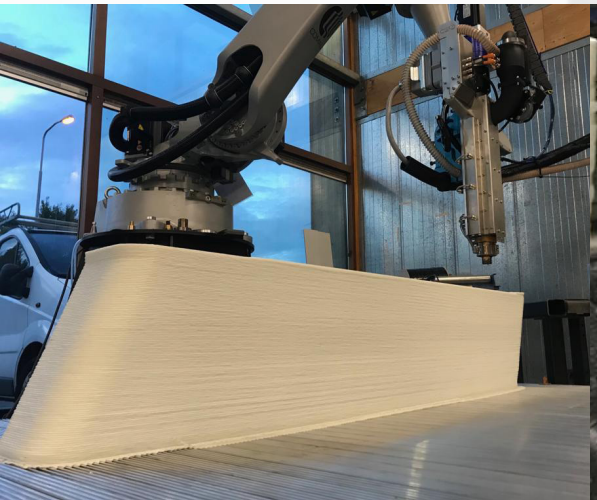
The AM Flexbot is ideal for custom solutions to fit a specific application. Siemens Sinumerik is used to direclty control the Comau robot arm, meaning no robot controller is needed. This enables very accurate operation of the robot, especially in terms of position accuracy while travelling along a path.

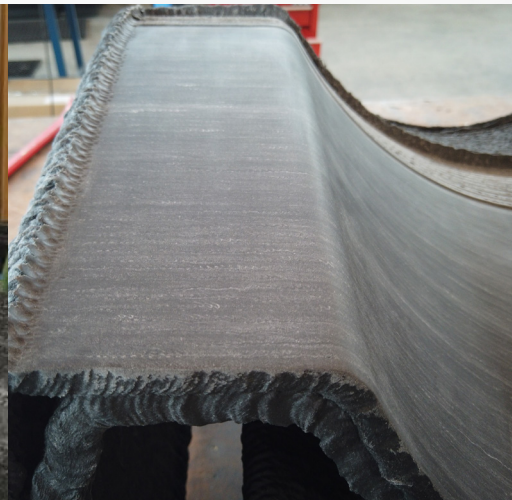
The Siemens Sinumerik can control 31 axes. Therefore your AM Flexbot can be easily extended with additional functions such as a rotary table, additional robots or other production processes as ATP or AFP.



PRINTING AND MILLING

The AM Flexbot offers the unique option to combine 3D printing and milling into one automated process. For mold making and tooling applications ideal to achieve the required surface finish.





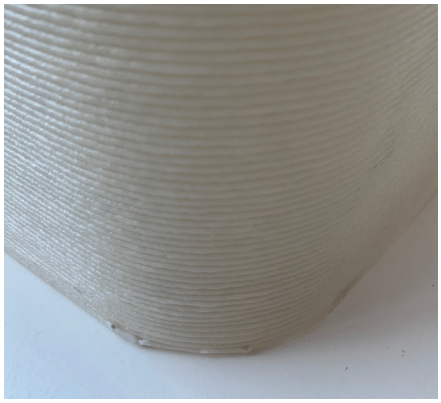
FEATURES

- Robot Extruder
- Comau NJ60-2.2
- Siemens Sinumerik 840D
- Working table (1.2m x 1.8m)
- Safety caging
- Pedestal for robotic arm
- Dryer

Additional options

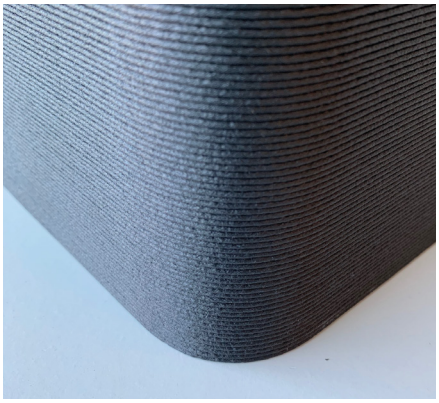
- Milling upgrade
- Heated working table
- Axes expansion unit
- Track + extra's
- Dynamic flow control
- CFAM module
- Rotary table

rPETG 30% GF



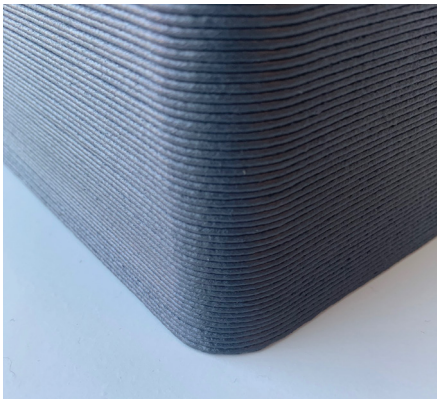
Recycled material, affordable and well suited for use outdoors due to UV stability.

PET 50% GF



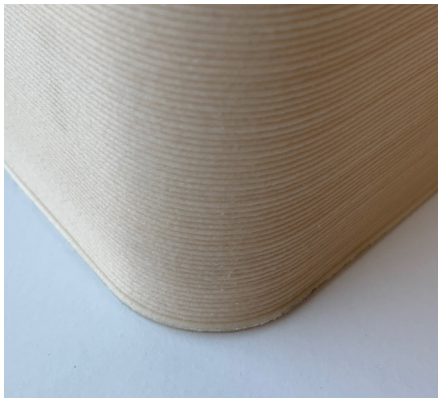
Extremely stiff and strong. Excellent surface finish after post processing and good thermal resistance with high HDT.

ABS 20% CF



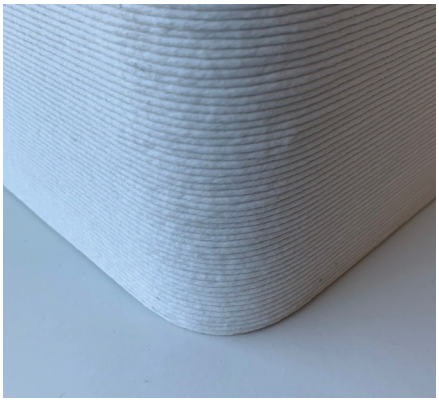
Good mechanical properties, general purpose engineering plastic. Excellent processing.

PLA/WF



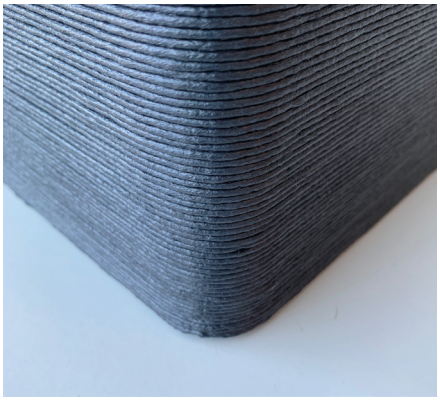
Bio based plastic with cellulose fibres from wood with very good printing quality.

PP 50% GF



Commodity material, afforwdable and excellent chemical resistance.

PEEK 30% CF



Excellent mechanical properties and excellent resistance to chemicals.

AND MANY MORE

Long-term Solutions
CEAD is your partner for implementing 3D printing in your production process.

Together we build your business case and start with a proof of concept project to asses the technical feasibility of your application We investigate important aspects such as - your design, the required material needed for your application and the print strategy-. Tests and prints are included in such a proof of concept project. The appropriate hardware solution derived from the results of the project ensures to leverage the technology to its full potential.

CEAD supplies a total package when it comes to 3D printing solutions. We not only supply the technology and the machine, but also offer assistance with installation, training, maintenance and support. We will help you build your production process from start to finish.

For more information please visit: **www.cfamprime.com**

About
CEAD is a technology supplier of 3D printing equipment on the frontier of large scale composite additive manufacturing. In 2017 we started the development of our world wide unique and patented Continuous Fibre Additive Manufacturing (CFAM) technology. Which enables to 3D print large scale continuous fibre reinforced products with high speed. With passion for technology and innovation, we are driven to find creative solutions for our clients and their applications. Helping them to transform their business activities with our technology.

CEAD B.V.
Turbineweg 18 | 2627 BP | Delft | The Netherlands
+31 (0) 15 737 01 83 | info@ceadgroup.com
www.ceadgroup.com