

FLEXCUBE

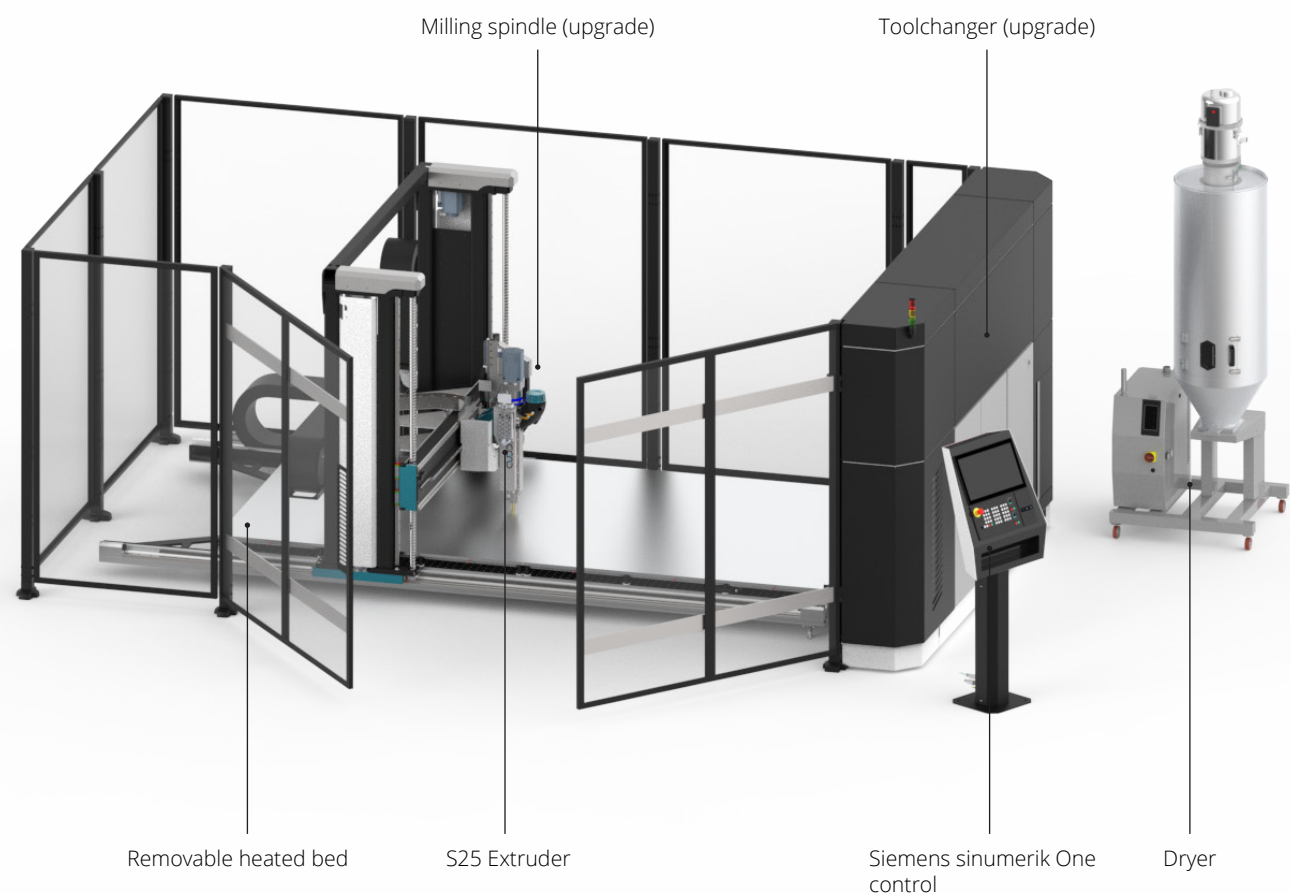


DESIGN

ARCHITECTURE &

CEAD

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Built for design applications

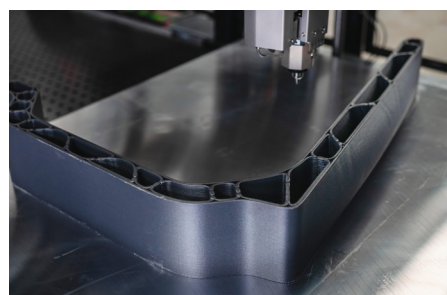
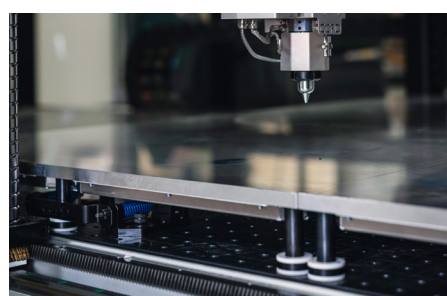
With extensive experience in the design market, we understand our clients' specific needs. This insight led us to create a user-friendly machine with a compact footprint and low ceiling requirements, enabling easy installation. Tailored for designers, it features an easily removable heated bed, ideal for printing large panels.

Optimized for production

The Flexcube provides an optimal build volume-to-cell ratio for efficient production, enabling multiple prints on one bed. Powered by the Siemens Sinumerik ONE CNC controller, it ensures precise and user-friendly operation, while automatic lubrication reduces maintenance and enhances performance.

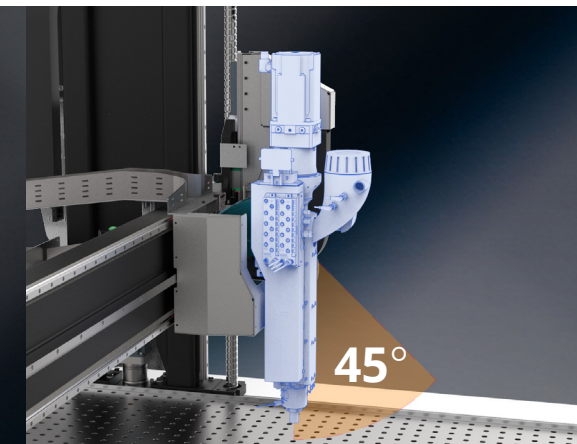
Print with the right materials

The Flexcube is engineered to work seamlessly with the right materials for design applications. Equipped with the advanced S25 extruder, it supports a wide range of materials commonly used in the design industry, ensuring versatility and precision in every print.



3+1 Axis printing

The extruder can rotate to a 45-degree angle, moving beyond the traditional 3-axis gantry system, unlocking the ability to print more complex geometries. In addition to 45-degree printing, specialized slicing software developed by Adaxis enhances the Flexcube's capability to handle intricate designs with ease.



Type	4000	8000	12000
Minimum Ceiling height (mm)	2500	2500	2500
Machine weight (kg)	3800	6100	8400
Build volume extruder vertical L×W×H (mm)*	3550×1950×1190	7550×1950×1190	11550×1960×1190
Build volume extruder diagonal L×W×H (mm)**	3200×1950×1460	7200×1950×1460	11200×1950×1460
Machine dimensions L×W×H (mm)	5950×3400×2500	9950×3400×2500	13950×3400×2500
Cell dimensions L×W (mm)***	8000×5000	11000×5000	15000×5000
Extrusion output (kg/h)	24	24	24
Kinematics	Gantry, 3+1 axis	Gantry, 3+1 axis	Gantry, 3+1 axis
Control system	Siemens SINUMERIK ONE	Siemens SINUMERIK ONE	Siemens SINUMERIK ONE
Material type	Pellet based	Pellet based	Pellet based
Heated bed temperature (°C)	120	120	120
Dryer capacity (L)	200	200	200
Lubrication	Automatic	Automatic	Automatic

* With heated bed H = 1090 mm

** With heated bed H = 1360 mm

*** Including dryer and console

Upgrades

Each application requires a different set-up; therefore, we offer multiple upgrades to meet specific client-tailored needs.

Milling

Engrave logos, achieve smooth surface finishes, and add highly precise details with ease. Milling unlocks a range of new possibilities to elevate your production process.

Toolchanger

Store up to 10 different milling tools and automatically switch between tools without having to interrupt your production process.

Large print bed

Extend the print bed to 8 or 12 meters, enabling larger prints and continuous production. Operators can remove completed prints while the machine continues printing, boosting efficiency and workflow.

Scan to mill

Creates a 1:1 digital twin of the printed object used to optimise milling operations. This results in enhanced precision and fewer errors in the final product.

Datalogger

Enable datalogging software for real-time condition monitoring and data-driven insights, turning it into an intelligent decision-making tool. It also offers the range of customizable analytics.

A large industrial 3D printer with a robotic arm is shown in a black and white photograph. The printer is printing a complex metal lattice structure on a bed. The text is overlaid on the image in a bold, white, sans-serif font.

CEAD is a technology supplier of 3D printing equipment and pioneer on the frontier of large scale composite additive manufacturing. We supply a total package when it comes to 3D printing solutions and offer the latest innovative technology, assistance with installation, training, maintenance and support. We will help you build your production process from start to finish.

CEAD