



# Hybrid Manufacturing Machines

## CNC + Large-Format MEX 3D Printing

### OVERVIEW

Hybrid manufacturing machines integrate CNC machining and large-format MEX 3D printing to provide a versatile solution for high-performance industrial applications. This combination allows manufacturers to produce complex geometries with additive manufacturing and achieve precision finishing with subtractive CNC processes – all in a single system.



#### Hybrid-LT

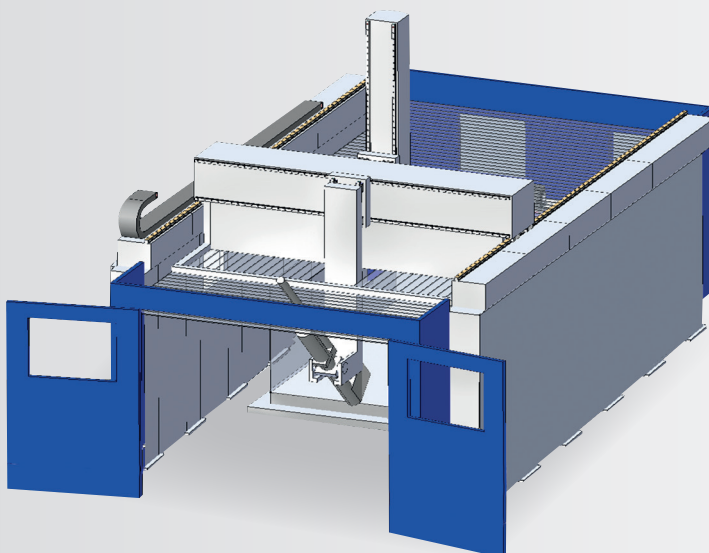
5-axis milling + 3-axis additive manufacturing can operate with the following axis travels:

- X axis: 2,000 mm
- Y axis: 1,200 mm
- Z axis: 600 mm

**Extruder capacity** up to 30 kg/h

Description AE Series

- Output 8 - 30 kg/h
- Nozzle diameters from 2 - 8 mm
- Maximum temperature of 350 °C



#### Hybrid-NT

5-axis milling + 4-axis additive manufacturing can operate with the following axis travels:

- X axis: 3,600 mm, 4,800 mm, 6,000 mm
- Y axis: 2,600 mm
- Z axis: 1,500 mm - 2,000 mm

**Extruder capacity** up to 70 kg/h

Description printCore 32-25

- Output 150 g - 70 kg/h through a screw design industry-proven for decades
- Nozzle diameters from 2 - 20 mm
- Maximum temperature of 400 °C
- Wear-resistant and engineered for durability



# GO HYBRID!

...CNC reinvented

## KEY FEATURES

- **Dual Technology:** Combines CNC milling with material extrusion (MEX) 3D printing for a seamless hybrid workflow.
- **Large Build Volume:** Capable of printing and machining large-scale parts with high structural integrity.
- **Multi-Material Compatibility:** thermoplastics, fiber-reinforced composites, and high-performance polymers.
- **Precision & Surface Finish:** CNC machining ensures tight tolerances and superior surface quality.
- **Automated Tool Switching:** Intelligent tool changers enable smooth transitions between printing and machining.
- **Cost & Time Efficiency:** Reduces production time by eliminating separate printing and post-processing steps.

## APPLICATIONS

- Aerospace & Defense: Lightweight composite structures with precision-machined interfaces.
- Automotive & Transportation: Large-scale prototypes and functional end-use components.
- Tooling & Molds: Rapid production of molds, jigs, and fixtures with high durability.
- Energy & Industrial Equipment: Custom components for heavy machinery and industrial applications.

## BENEFITS

- ✓ Enhanced Productivity – Combines additive and subtractive processes to streamline manufacturing.
- ✓ Material Optimization – Minimized waste with additive-first manufacturing and CNC refinement.
- ✓ Design Freedom – Enables complex geometries that would be difficult or impossible with traditional machining.
- ✓ Scalability – Adaptable to low-volume and high-mix production needs.

## WHY CHOOSE OUR HYBRID MACHINES?

- Proven Reliability – Built by an experienced machine manufacturer specializing in hybrid solutions.
- Customizable Systems – Tailored configurations for industry-specific application.
- Turnkey Support – Comprehensive training, service and technical assistance.

Contact us today to explore how hybrid manufacturing can transform your production workflow!

### Contact us:

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