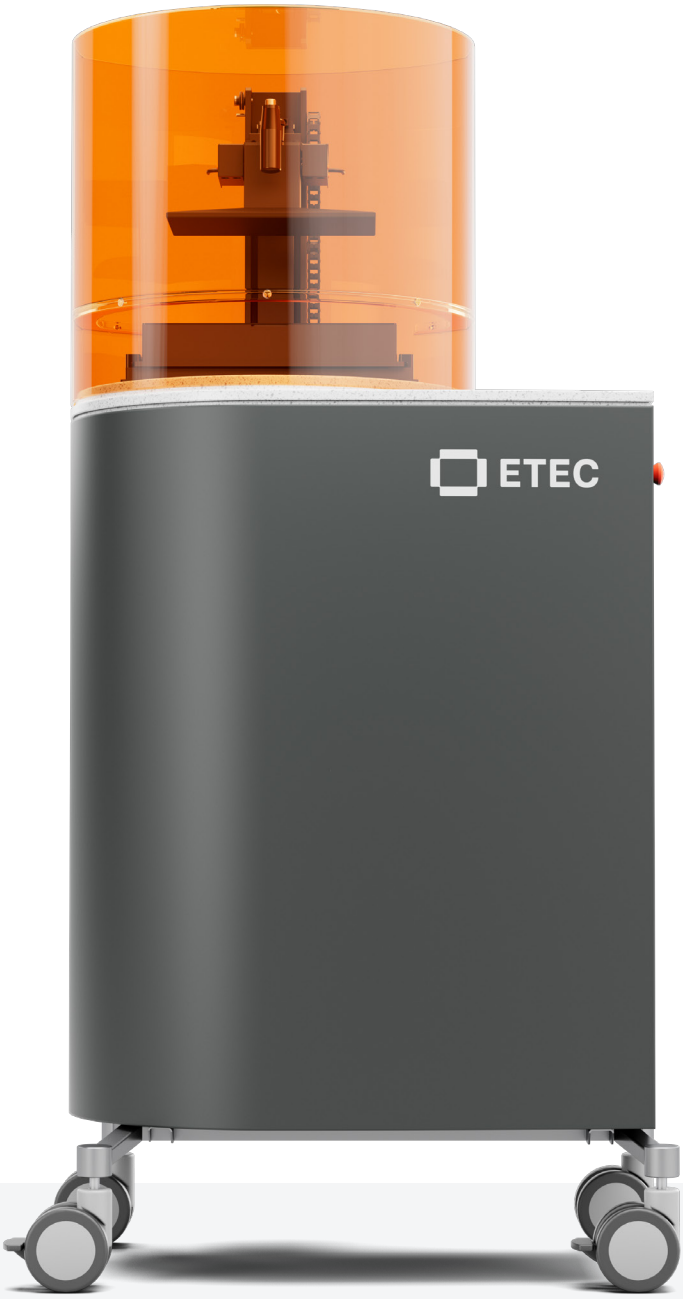
ETEC proto3000
ISO 9001:2015

PRO XL

Top quality polymer 3D printing with reliable ETEC technology.

The next generation of the first DLP 3D printer to hit the market over 20 years ago.



RIGID, HIGH-HEAT, AND CASTABLE MATERIALS UNLOCK THE ABILITY TO PRODUCE DEMANDING APPLICATIONS

- Automotive and machine parts
- Aerospace components
- Housings
- Connectors
- Jigs and fixtures
- Microfluidic devices
- Castable jewelry patterns
- Short run molds
- Fluid ducts
- Prosthetics

ETEC

THE ORIGINAL DLP MACHINE

The newest generation of a series of high-resolution 3D printers launched in 2002, the Pro XL boasts an impressive build area with the pixel resolution for end-use applications. Manufacturers have been using this series of ETEC machines for decades of reliable, precision production supporting the dental, jewelry, and industrial markets.

Based on R&D from industry leaders, the Pro XL delivers consistent high accuracy and high throughput to keep manufacturers on schedule. Digital light processing (DLP) additive manufacturing technology on the Pro XL offers the ability to prototype parts and scale them into production on the same system with select ETEC resins or qualified third-party materials.

Foundation of quality

The newest generation of this trusted platform features a 4K UHD projector for optimum build size and pixel resolution. UV optics tuned to 385nm wavelength are designed to reduce image distortion and ensure the maximum amount of energy is transferred from the LED light source for exceptionally precise curing. The Pro XL continues to create value with superior part quality and print reliability optimized for high-quality part production.

Software-managed workflow

Our innovative and easy-to-use software solutions help customers manage their additive manufacturing workflows for build preparation, support generation, and consistent manufacturing.

Automated optimization

Hyperprint™ technology uses print force data to optimize build layers. An efficient combination of heat and closed-loop feedback, driven by intelligent load sensors detecting forces exerted on the part, fully customizes how each print layer is processed for repeatability, quality assurance, and speed.

Smooth surface finish

Projectors deliver light in square-shaped pixels that can create a jagged edge along curves – what the industry often refers to as “stair stepping.” The Pro XL uses patented pixel-shifting technology to move pixels at the edge of parts in both the X and Y directions, creating more addressable pixels to reduce stair-stepping and deliver significantly improved surface finish resolution.

Industry-leading materials

Choose from a selection of proprietary ETEC resins or work with industry-leading third-party materials from trusted manufacturers such as Henkel, Evonik, and BASF. From plastics with best-in-class properties for rigidity, elongation, or ultimate tensile strength to castable resins with excellent burnout properties, the Pro XL allows you to choose a material to fit your application.

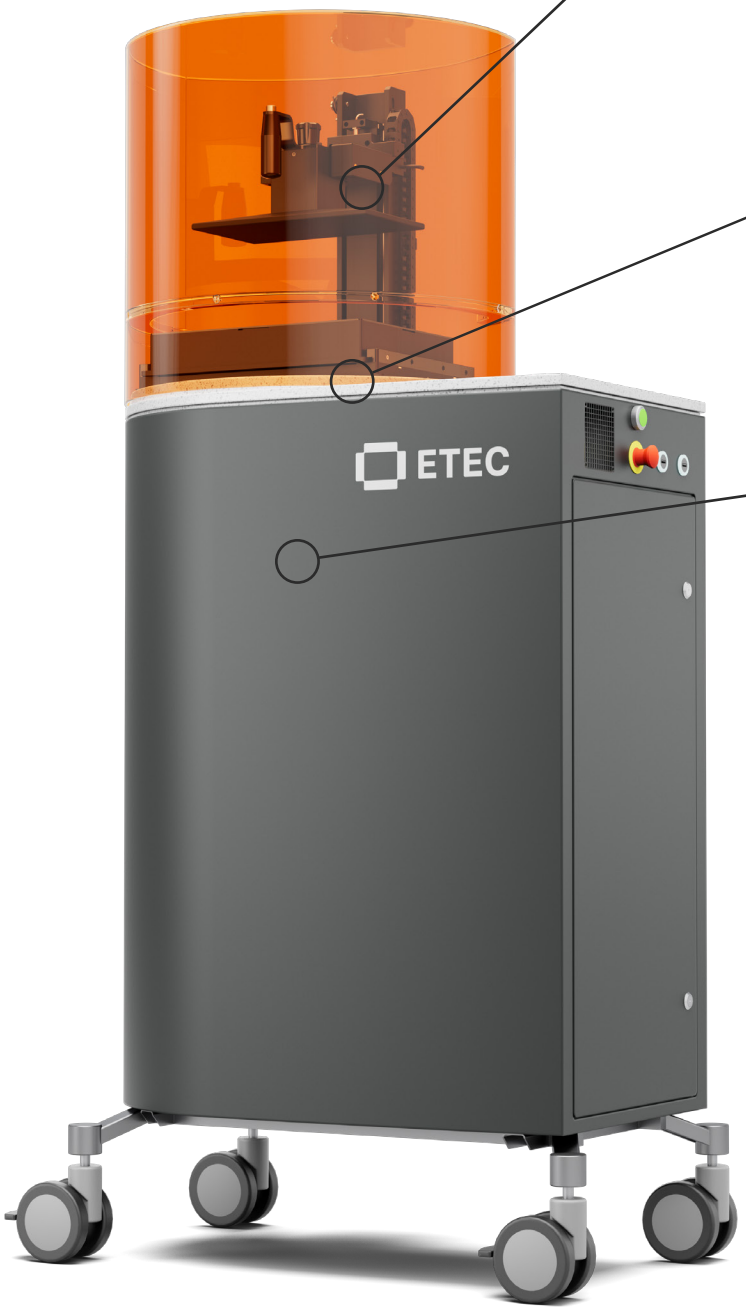
Built-in material heaters

Integrated material heating can increase resin temperature up to 45°C (113°F) during printing to thin the viscosity of polymer resins to increase throughput and reduce printing forces.

Smart load sensors fully customize how each print layer is processed for predictable, repeatable results

Custom 4K projector setup with an industrial-grade DLP chip delivers ultra-high-definition for finer details and smooth surface finishes

Built-in heaters lower resin viscosity for quicker prints



TECHNICAL SPECIFICATIONS	
Technology	Digital light processing
HyperPrint™	Heat + closed-loop printing
Wavelength	385 nm
Power	5 mW/cm^2
Projector resolution	4K UHD (3840 x 2160 px)
Native pixel size	65 µm
Build volume (L x W x H)	249.1 x 140.1 x 165.1 mm (9.8 x 5.5 x 6.5 in)
Z Resolution (material dependent)	25, 50, 100 µm (optimized for each material part performance)
Footprint (L x W x H)	90 x 60 x 152 cm (35.4 x 23.6 x 59.8 in)
Weight	90 kg (198.4 lbs)
Electrical requirements	100-250V AC, 6.3 A 50Hz/60Hz

Additive Manufacturing 2.0

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