ETEC

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

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

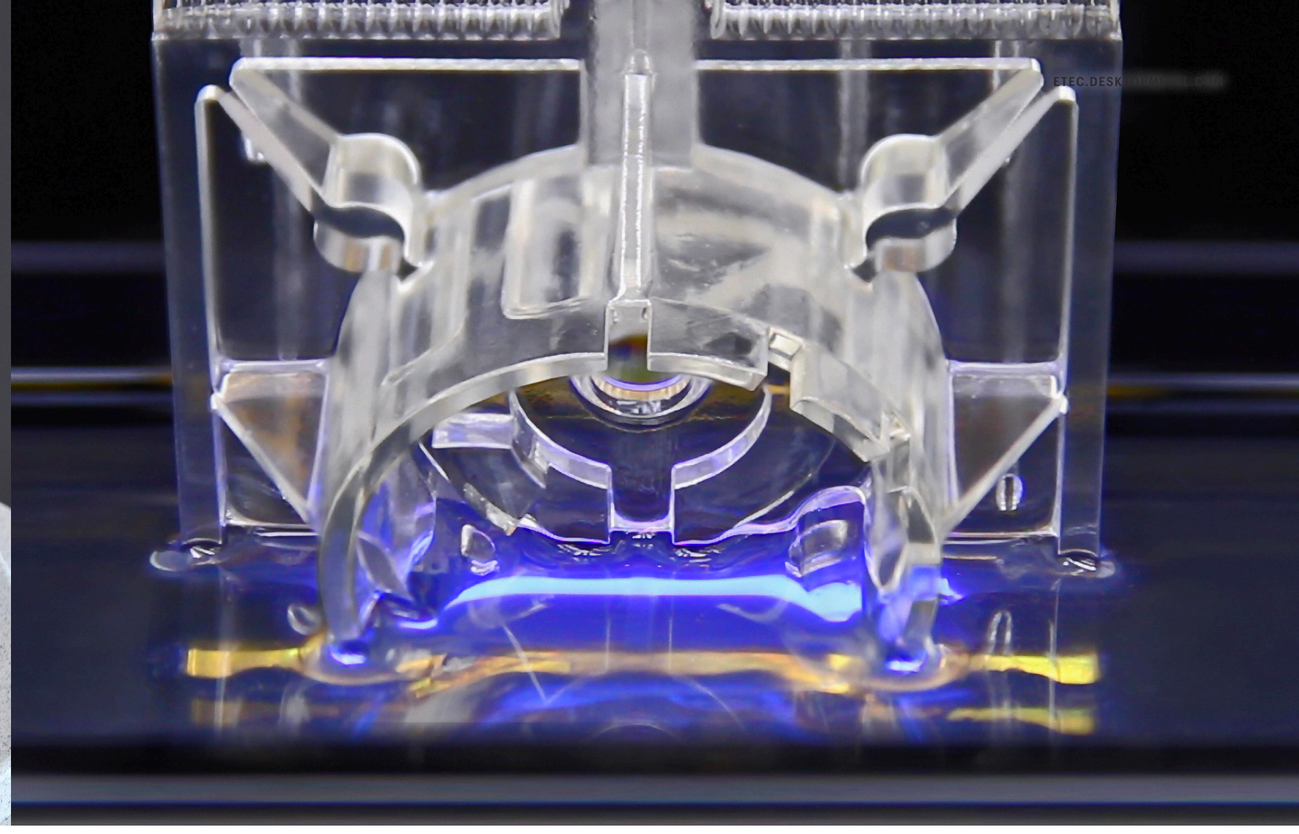
Projectors deliver light in square-shaped pixels that can create a jagged edge along curves – what the industry often refers to as “stair stepping.” The Pro XL uses patented pixel-shifting technology to move pixels at the edge of parts in both the X and Y directions, creating more addressable pixels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



INDUSTRIAL RESINS

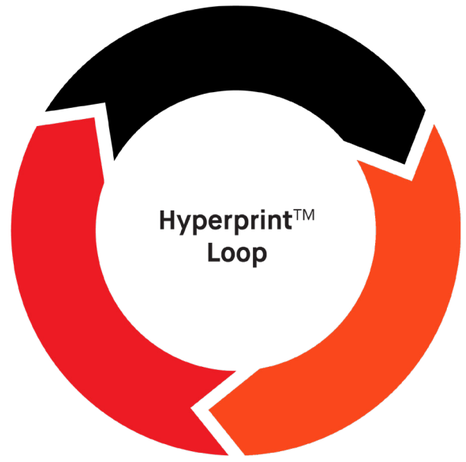
Because the Pro XL is such a versatile production tool, we've tailored a material portfolio to meet the performance needs of a range of industrial applications. Targeting some of the best property sets available, our team of experts has developed innovative resins and we've qualified premium third-party materials that allow customers to embrace the benefits of 3D printing without sacrificing performance.

Qualified Pro XL materials

- Henkel LOCTITE® 3D 3843 Black
- Henkel LOCTITE® 3D IND 405 Clear
- Evonik INFINAM® ST 6100 L
- BASF Ultracur3D® RG 3280
- ETEC HTM 140
- ETEC E-RigidForm Charcoal
- ETEC PIC 100
- ETEC Easy Cast 2.0

Hard & high-temperature plastics

Castable resins



HYPERPRINT™

Super-fast 3D printing technology that uses print force data to fully optimize how each print layer is processed for repeatability, quality assurance, and speeds up to 50% faster than prior DLP technology.

Hyperprint

Combination of heating, CLP sensors, and precise software control system enables a fast new way to deliver super speeds without the need for oxygen systems

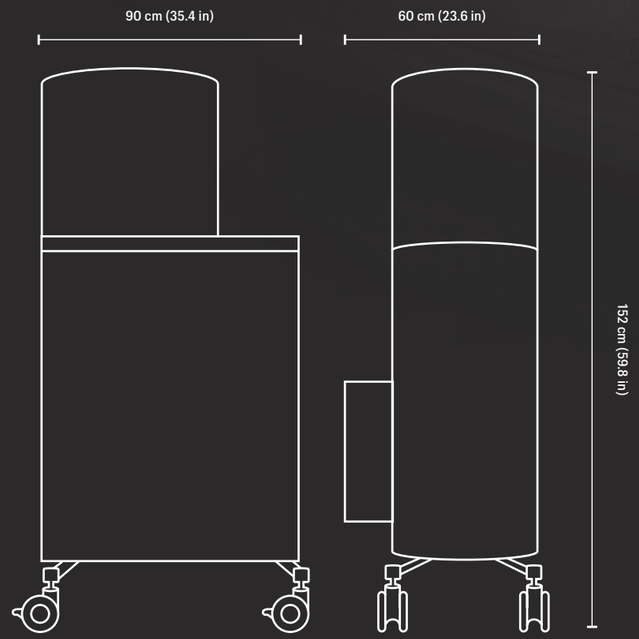
On-Board Heating

Thins the viscosity of photopolymer resins for quick recoating. No separate heating unit needed

CLP Load Sensors

Closed-loop load sensors know the exact moment the current print layer is done and fully separated from the tray floor, so the next layer can start faster

TECHNICAL SPECIFICATIONS



Technology	Digital light processing
HyperPrint™	Heat + closed-loop printing
Wavelength	385 nm
Power	5 mW/cm²
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

With an industrial build size, premium printing quality, and affordable upfront price without annual leases, the Pro XL is a versatile production tool in any facility and offers a roadmap to scale from prototyping and low-volume manufacturing to mass production on the ETEC Xtreme 8K within the same technology ecosystem.

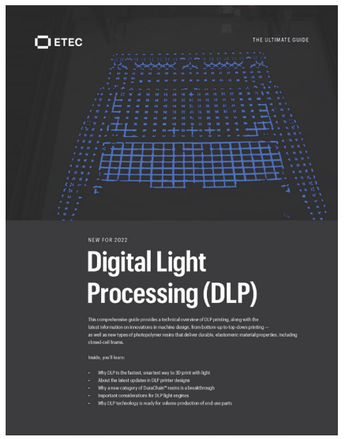
LEARN MORE

VIDEO

Premium DLP 3D Printing On the Pro XL

The Pro XL offers premium digital light processing technology on the world's original DLP printer. Available at half the price of both its predecessor and other competitive systems, watch the Pro XL in action turbocharged with Hyperprint and a versatile material portfolio.

TeamDM.com/ProXLVideo



WHITE PAPER

Ultimate Guide to DLP

A comprehensive technical overview of DLP 3D printing covering innovations in machine design, from bottom-up to top-down printing, as well as new types of photopolymer resins that deliver durable, elastomeric material properties.

TeamDM.com/DLPGuide

Learn more about digital light processing and find more customer success stories at

TeamDM.com/DLPSuccess

Additive Manufacturing 2.0

Metal | Polymer | Ceramic | Composite | Wood

Printer platforms

Desktop Metal

Desktop Health

ETEC

ExOne

FIGUR

Materials

ADAPTIVE3D

FORUST

Applications and more

aidro
Desktop Metal Company

Desktop Labs

ETEC.DESKTOPMETAL.COM

Desktop Metal (NYSE:DM) is driving Additive Manufacturing 2.0, a new era of on-demand, digital mass production of industrial, medical, and consumer products. Our innovative 3D printers, materials, and software deliver the speed, cost, and part quality required for this transformation. We're the original inventors and world leaders of the 3D printing methods we believe will empower this shift, binder jetting and digital light processing. Today, our systems print metal, polymer, sand and other ceramics, as well as foam and recycled wood. Manufacturers use our technology worldwide to save time and money, reduce waste, increase flexibility, and produce designs that solve the world's toughest problems and enable once-impossible innovations. Learn more about Desktop Metal and our #TeamDM brands at DesktopMetal.com