MASTREX

CATALOG

METAL 3D PRINTERS

BUILT TO PERFORM.
BACKED BY ENGINEERING.

Mastrex builds advanced fabrication systems for the engineers, manufacturers, and innovators shaping the future of industry. Whether you're prototyping in aerospace, scaling medical device production, or delivering mission-critical defense components, Mastrex machines combine precision, reliability, and future-ready architecture to help you move faster, without compromise.

CORE VALUES

01 ENGINEERED FOR TRUST

We build systems our customers can depend on. Reliability is not an afterthought. It's built into every detail.

02 PRECISION IS STANDARD

Our machines are built to meet the demands of advanced manufacturing, with the tight tolerances and repeatability required by aerospace, defense, and medical manufacturing. We don't aim for precision. We require it.

03 INNOVATION WITH PURPOSE

We develop technology that solves real problems. Our machines evolve with the needs of industry, not trends.

04 WE ENABLE BUILDERS

Engineers, fabricators, and manufacturers use Mastrex to create what's next. We're here to support their ambition with tools that perform.

05 BUILT TO ENDURE

Mastrex machines are designed for years of hard use. We prioritize durability, because great tools should last.

MX400

Work Area 400x350X400mm

Laser Power 500W*4

FEATURES

MASSIVE CAPACITY. FULLY INTEGRATED WORKFLOW. BUILT FOR PRODUCTION.

The MX400 is a large-format metal 3D printer engineered for industrial-scale applications. With a build volume of 400 × 350 × 400mm, four high-power lasers, and a fully integrated powder circulation system, it's designed to deliver maximum throughput with minimal manual intervention.

FOUR LASERS, FULL COVERAGE

The MX400 features a quad-laser system with full-area coverage, dramatically reducing print times for both large prints and batch production.

FULLY INTEGRATED POWDER LOOP

From sieving to de-powdering, the entire powder handling process happens inside the machine. This closed-loop system streamlines post-processing, improves safety, and reduces the need for external equipment.

SUPERIOR SURFACE FINISH

Minimal post-processing, smoother parts, right out of the printer. Ideal for functional components, prototypes, and medical or aerospace-grade applications.

UNMATCHED ACCURACY

Achieve fine details and tight tolerances with exceptional repeatability. The MX series sets a new benchmark for print fidelity in the metal 3D printing category.

VERSATILE MATERIAL COMPATIBILITY

Titanium, stainless steel, aluminum, cobalt-chromium, copper and more. The MX400 gives you real versatility, whether you're iterating designs or manufacturing end-use parts.

EFFORTLESS OPERATION

User-friendly software and intuitive controls make setup and operation simple, even for those new to metal 3D printing. Spend less time on training and more time producing functional metal parts.

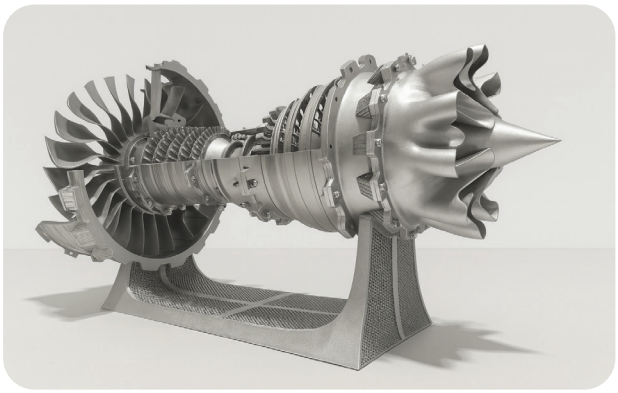
LOW OPERATING COSTS

Efficient powder usage, low maintenance requirements, and no hidden overhead. The MX400 is built to keep your cost per part down, and your ROI up.

TECHNICAL SPECIFICATIONS

BUILD VOLUME	400 × 350 × 400 mm (15.75" × 13.78" × 15.75")
LASER POWER	500W*4
LAYER HEIGHT	20-120μm
LASER BEAM DIAMETER	70-120μm
PRINT TECHNOLOGY	Laser powder bed fusion (LPBF)
SUPPORTED MATERIALS	Titanium alloy, stainless steel, aluminum, cobalt-chromium alloy, copper alloy, and more
MAX SPEED	4*7m/s
DIMENSIONS	93.7" × 56" × 94.5" | 2380×142×2400mm
WEIGHT	9,260 lb | 4200 kg
VOLTAGE	208V - 480V

Built with premium German-made Scanlab scan heads and IPG lasers.



POWDER

Raw materials can be purchased from Mastrex or any other supplier. The following price list includes some of our most popular materials:

MATERIAL TYPE	ALLOY NAME	DESCRIPTION	PRICE (USD/LB)
Stainless Steel	17-4PH	Stronger and tougher than 316L. Ideal for structural components, precision molds, and tools.	$9
Stainless Steel	316L	High-quality and durable stainless steel. Great for general projects and prototyping.	$10
Aluminum Alloys	AlSi10Mg	Popular alloy with high thermal and electrical conductivity. Lightweight and strong for industrial use.	$24
Aluminum Alloys	ZY6061	Premium aluminum alloy compatible with anodizing. Suitable for visually refined parts.	$49
Tool Steel	18Ni300	High-strength, precision tool steel. Excellent for molds, tooling, and durable industrial components.	$45
High-Temp Alloys	GH4169	Advanced superalloy for high-temp use (up to 650°C). Ideal for aerospace and energy sectors.	$59
Copper Alloy	CuCrMo	Exceptional thermal and electrical conductivity. Perfect for conductors, connectors, and cooling.	$59
Cobalt-Chrome	CoCr	Medical-grade cobalt-chrome alloy. Preferred choice in dental applications. FDA approved.	$67
Titanium Alloy	TC4 (Ti-6Al-4V)	Ultra-strong and biocompatible. Ideal for aerospace and medical industries. FDA approved.	$82

EXCEPTIONAL SERVICE

Transport | Expert Installation and Training | 2-year Warranty

When you choose Mastrex, you gain more than a machine. You gain a partner in success. Our comprehensive service package includes:

- **Free On-Site Installation and Training:** Our professional technicians and engineers ensure you're up and running quickly and efficiently.
- **2-Year Warranty:** Enjoy peace of mind with our extensive warranty coverage.
- **Lifetime Support:** Access our US-based technical support team anytime for expert assistance.

Take Your Business to the Next Level

Discover the difference with the MX series Metal 3D printers. Precision, power, and efficiency have never been more accessible. Contact us today for more information.

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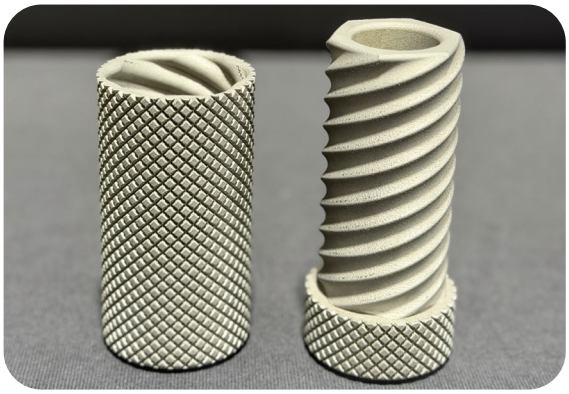

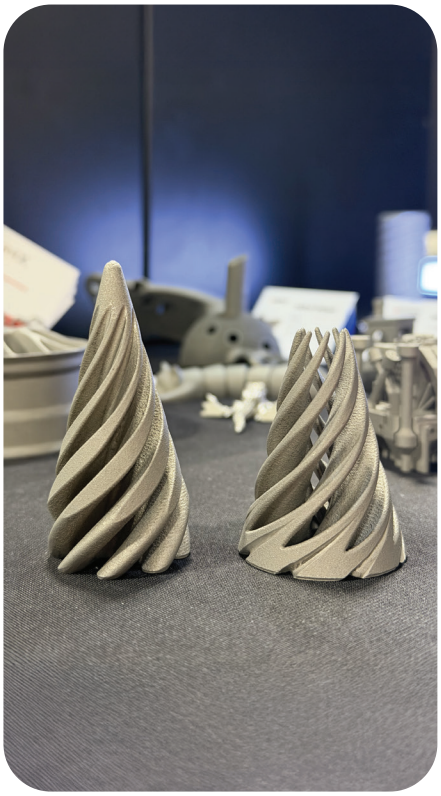

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