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 FREEDOM TO CHOOSE

Source powder from Mastrex or from the supplier of your choice, and use your preferred slicing software. Our open approach gives you the flexibility to build the workflow that works best for your operation.

06 BUILT TO ENDURE

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



MX SERIES
METAL 3D PRINTERS

PRODUCT LINEUP OVERVIEW

From desktop prototyping to full-scale industrial production, the MX Series delivers precision, scalability, and performance at every level.

Each system is built on the same LPBF platform, ensuring consistent print quality, material compatibility, and workflow across the entire lineup.

MODEL	BUILD VOLUME (MM)	LASERS	IDEAL FOR	STARTING PRICE
MX100	Ø100 × 80	300W	Desktop prototyping, R&D, education	**$39,000**
MX100 PRO	100 × 100 × 80	500W	Larger prototypes, research labs	**$49,000**
MX150	150 × 150 × 170	500W	Small-batch production, tooling	**$89,000**
MX220	220 × 150 × 200	500W*2	High-throughput production	
MX300	300 × 300 × 350	500W*2	Large parts, industrial R&D	
MX400	420 × 350 × 400	500W*4	Serial production, integrated powder handling	
MX800	800 × 600 × 1200	1000W*6	Heavy-duty industrial production	

MX300

Work Area 300×300×350mm

Laser Power 500W*2

Laser Power 1000W*4 - *Optional*



FEATURES

DUAL-LASER POWER. PRECISION AT SPEED.

The MX300 delivers everything the MX220 offers, and more. With an expanded build volume and the same dual-laser, full-area scanning system, it enables the production of larger, more complex parts at unmatched speed and quality.

HIGH-THROUGHPUT DUAL-LASER SYSTEM

Two fully independent lasers cover the entire build area, enabling rapid production, even on large or densely packed builds. Intelligent scanning coordination and advanced calibration ensure smooth transitions and consistent results across the full platform.

ENGINEERED FOR BIGGER IDEAS

With its increased build size, the MX300 supports larger parts, higher part counts, or more complex assemblies, all in a single print. Perfect for aerospace, energy, and industrial R&D where scale and precision go hand in hand.

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 MX300 gives you the flexibility to develop and produce parts with the materials you need, with powder sourced from Mastrex or any supplier you choose.

EFFORTLESS OPERATION

User-friendly software and intuitive controls simplify setup and operation, including for users new to metal 3D printing. The systems also support the use of preferred slicing software, allowing greater flexibility within existing workflows.

LOW OPERATING COSTS

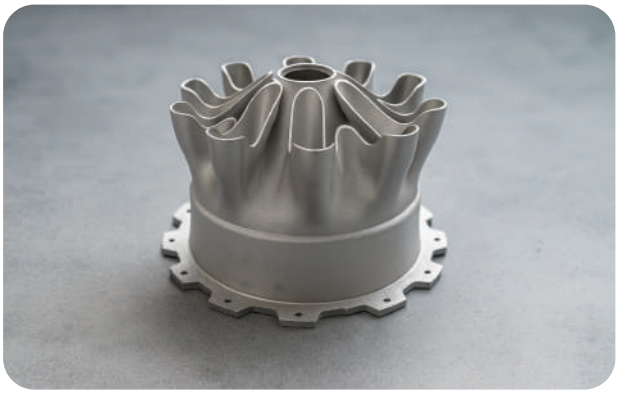
Efficient powder usage, low maintenance requirements, and no hidden overhead. The MX300 is built to keep your cost per part down, and your ROI up.

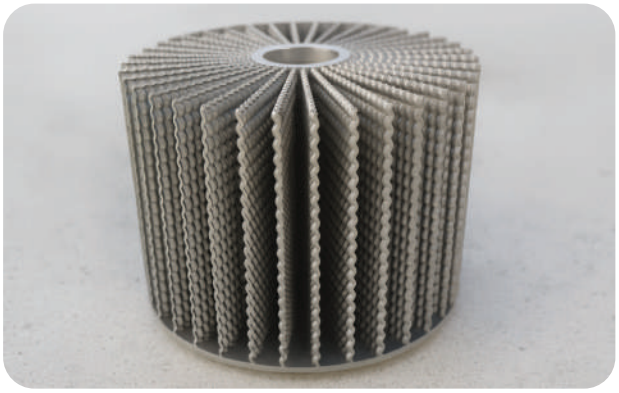
TECHNICAL SPECIFICATIONS

BUILD VOLUME	300 × 300 × 350 mm (11.81" × 11.81" × 13.78")
LASER POWER	500W*2
LAYER HEIGHT	20-120μm
LASER BEAM DIAMETER	50-120μm
PRINT TECHNOLOGY	Laser powder bed fusion (LPBF)
SUPPORTED MATERIALS	Titanium alloy, stainless steel, aluminum, cobalt-chromium alloy, copper alloy, and more
MAX SPEED	2*7m/s
DIMENSIONS	72.8" × 53.1" × 90.6" | 1850×1350×2300mm
WEIGHT	4,630 lb | 2100 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	High strength, corrosion resistant and heat treatable	$9
Stainless Steel	316L	Corrosion resistant, ductile and highly versatile	$10
Aluminum Alloys	AlSi10Mg	Lightweight, strong and highly printable.	$24
Aluminum Alloys	Aluminum 6061	Familiar engineering alloy with good strength-to-weight ratio	$49
Tool Steel	H13	High hardness, hot strength and wear resistance	$29
Tool Steel	18Ni300/Maraging 300	Very high strength, heat treatable, dimensionally stable	$45
Nickel Superalloy	Inconel 718	High-temperature strength with strong fatigue and creep resistance	$36
Nickel Superalloy	Inconel 625	Excellent corrosion and high-temperature resistance	$36
Cobalt-Chrome	CoCr / CoCrMo	High wear resistance, strength and biocompatibility	$67
Titanium Alloy	Ti-6Al-4V Grade 5	Exceptional strength-to-weight ratio and corrosion resistance	$82
Titanium Alloy	Ti-6Al-4V ELI Grade 23	High strength, low interstitial content and biocompatibility	$99
Copper Alloy	GRCop-42	High thermal conductivity with elevated-temperature strength	$109

EXCEPTIONAL SERVICE

Expert Installation and Training | 2-year Warranty

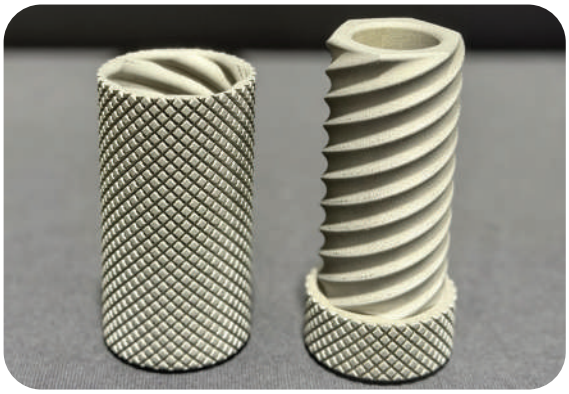
When you choose Mastrex, you gain more than a machine. You gain a partner in success. Our comprehensive service package includes:

- **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.

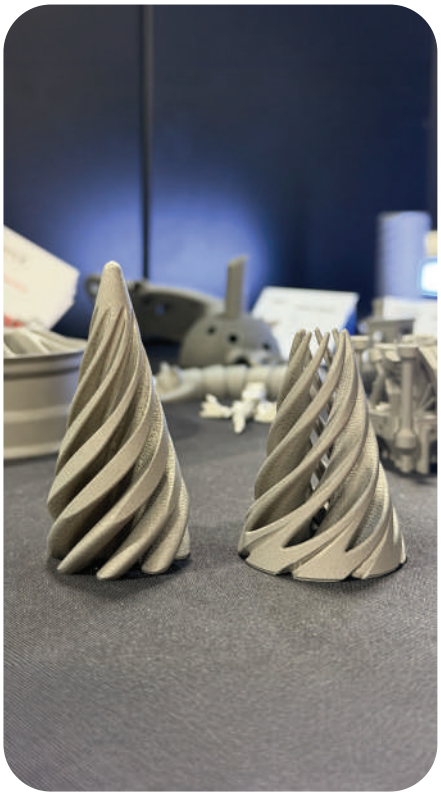
Take Your Business to the Next Level

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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