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	

MX100 DESKTOP METAL 3D PRINTER

Work Area Ø100×80mm **Laser Power** 300W

Price: $39,000



FEATURES

HIGH-PERFORMANCE LPBF PRINTER IN A COMPACT PACKAGE

The MX100 brings industrial-grade metal 3D printing to your desktop. Designed for precision, performance, and ease of use, it's the ideal solution for prototyping, research, small-batch production, and educational environments.

BIG PERFORMANCE, SMALL FOOTPRINT

Don't let its size fool you. The MX100 delivers exceptional accuracy and repeatability, producing parts with outstanding surface finish and fine details right from your desktop.

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 MX100 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

COST-EFFICIENT TO OWN AND OPERATE

Low operating costs and minimal maintenance requirements make the MX100 an affordable entry point into high- quality metal 3D printing. It's a smart investment that pays off in precision, flexibility, and reduced production timelines.

TECHNICAL SPECIFICATIONS

BUILD VOLUME	Ø100 × 80 mm (3.94" × 3.15")
LASER POWER	300W
LAYER HEIGHT	20-60μm
LASER BEAM DIAMETER	35-60μm
PRINT TECHNOLOGY	Laser powder bed fusion (LPBF)
SUPPORTED MATERIALS	Titanium alloy, stainless steel, aluminum, cobalt-chromium alloy, copper alloy, and more
MAX SPEED	7m/s
DIMENSIONS	22.0" × 22.0" × 31.5" | 560×560×800mm
WEIGHT	276 lb | 125 kg
VOLTAGE	120V









MX100 PRO

Work Area 100×100×80mm **Laser Power** 500W

Price: $49,000



FEATURES

HIGH-PERFORMANCE METAL 3D PRINTER IN A COMPACT PACKAGE

The MX100 Pro offers the same high-performance metal 3D printing experience as the MX100, with more room to build. Designed for engineers, researchers, and manufacturers who need extra capacity without sacrificing accuracy, ease of use, or cost-efficiency.

BIG PERFORMANCE, SMALL FOOTPRINT

Don't let its size fool you. The MX100 Pro delivers exceptional accuracy and repeatability, producing parts with outstanding surface finish and fine details.

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 MX100 Pro 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.

COST-EFFICIENT TO OWN AND OPERATE

Low operating costs and minimal maintenance requirements make the MX100 Pro an affordable entry point into high-quality metal 3D printing. It's a smart investment that pays off in precision, flexibility, and reduced production timelines.

TECHNICAL SPECIFICATIONS

BUILD VOLUME	100 × 100 × 80mm (3.94 × 3.94 × 3.15 in)
LASER POWER	500W
LAYER HEIGHT	20-120μm
LASER BEAM DIAMETER	35-60μm
PRINT TECHNOLOGY	Laser powder bed fusion (LPBF)
SUPPORTED MATERIALS	Titanium alloy, stainless steel, aluminum, cobalt-chromium alloy, copper alloy, and more
MAX SPEED	7m/s
DIMENSIONS	22.0" × 22.0" × 31.5" | 560×560×800mm
WEIGHT	276 lb | 125 kg
VOLTAGE	120V









MX150

Work Area 150×150×170mm

Laser Power 500W

Laser Power 500W*2 - *Optional*

Price: $89,000



FEATURES

SCALABLE LPBF PERFORMANCE IN A COMPACT INDUSTRIAL FORM

The MX150 is built for users who need: more build volume, more throughput, and more capability, without the complexity or cost of a full-sized production system. It combines industrial-grade performance with a user-friendly workflow in a footprint that fits right into labs, workshops, or production environments.

EXPANDED BUILD VOLUME, ENHANCED FLEXIBILITY

The MX150 gives you the space to print larger parts or higher part quantities per cycle. Whether you're prototyping complex components or running short production batches, the MX150 delivers the speed and flexibility needed to accelerate innovation and iterate quickly.

PRECISION ENGINEERING, PROVEN RESULTS

With fine detail resolution, excellent surface finish, and consistent mechanical properties, the MX150 meets the demands of aerospace, medical, automotive, and industrial applications.

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 MX150 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

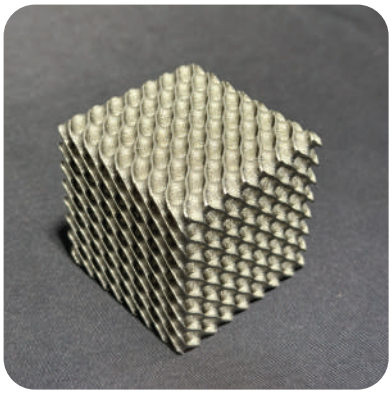
User-friendly software and intuitive controls simplify setup and operation, including for users new to metal 3D printing. The systems also support the use of preferred slicing software, allowing greater flexibility within existing workflows.

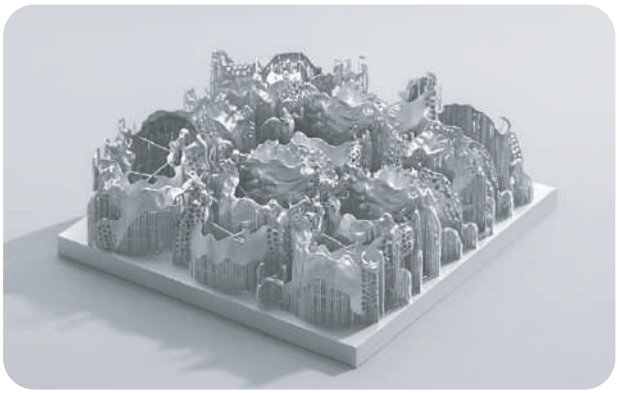
COST-EFFICIENT TO OWN AND OPERATE

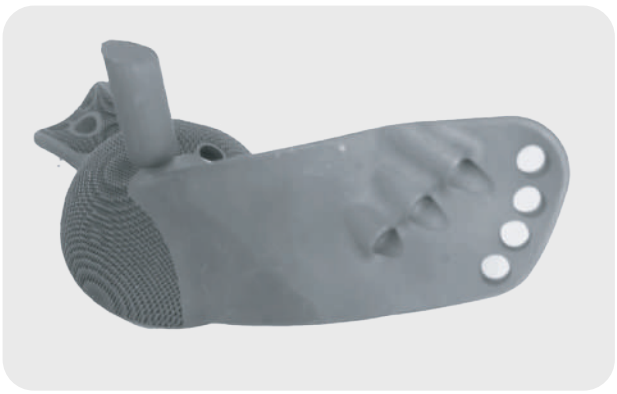
Low operating costs and minimal maintenance requirements make the MX150 an affordable entry point into high-quality metal 3D printing. It's a smart investment that pays off in precision, flexibility, and reduced production timelines.

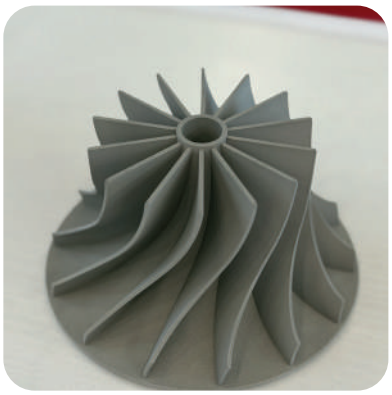
TECHNICAL SPECIFICATIONS

BUILD VOLUME	150 × 150 × 170 mm (5.91" × 5.91" × 6.69")
LASER POWER	500W
LAYER HEIGHT	20-120μm
LASER BEAM DIAMETER	50-100μm
PRINT TECHNOLOGY	Laser powder bed fusion (LPBF)
SUPPORTED MATERIALS	Titanium alloy, stainless steel, aluminum, cobalt-chromium alloy, copper alloy, and more
MAX SPEED	7m/s
DIMENSIONS	37.8" × 28.7" × 70.5" | 960×730×1790mm
WEIGHT	1,764 lb | 800 kg
VOLTAGE	208V - 480V









MX220

Work Area 220×150×200mm

Laser Power *500W*2*



FEATURES

DUAL-LASER POWER. PRECISION AT SPEED.

The MX220 is built for serious throughput, without sacrificing precision. With a large build volume and two fully independent lasers that cover the entire print area, it significantly reduces build times while maintaining the exceptional accuracy and surface quality demanded in critical applications.

ADVANCED MULTI-LASER SCANNING STRATEGY

Our precision-tuned scanning algorithms and calibration systems ensure seamless coordination between lasers, minimizing overlap artifacts and delivering uniform, high-quality results across the entire build.

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 MX220 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. Compatible with preferred slicing software, the systems can be integrated into existing workflows with minimal disruption.

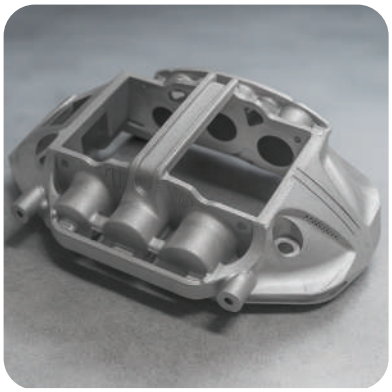
LOW OPERATING COSTS

Efficient powder usage, low maintenance requirements, and no hidden overhead. The MX220 is built to keep your cost per part down, and your ROI up.

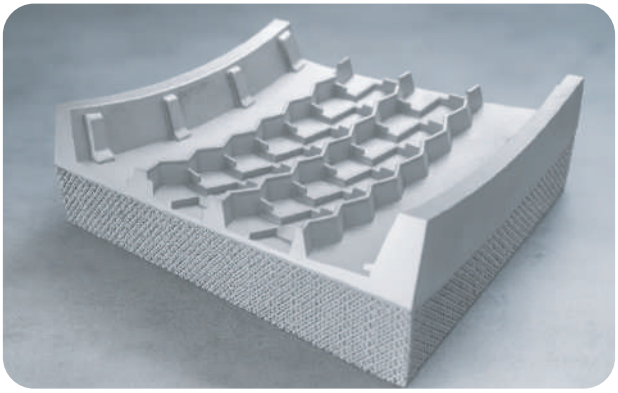
TECHNICAL SPECIFICATIONS

BUILD VOLUME	220 × 150 × 200 mm (8.66" × 5.91" × 7.87")
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	59.8" × 39.4" × 72.8" | 1520×1000×1850mm
WEIGHT	1,808 lb | 820 kg
VOLTAGE	208V - 480V

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







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

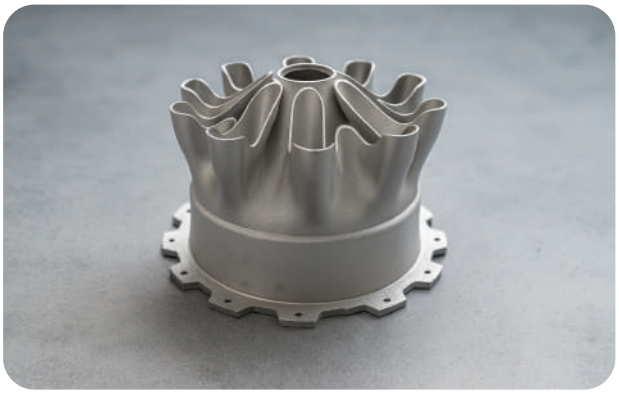
Efficient powder usage, low maintenance requirements, and no hidden overhead. The MX300 is built to keep your cost per part down, and your ROI up.

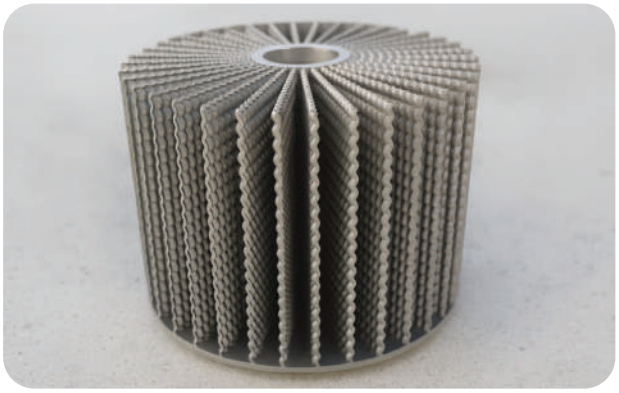
TECHNICAL SPECIFICATIONS

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.







MX400

Work Area 420×300×400mm

Laser Power 500W*4

Laser Power 1000W*4 - *Optional*



FEATURES

MASSIVE CAPACITY. 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 optional 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 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

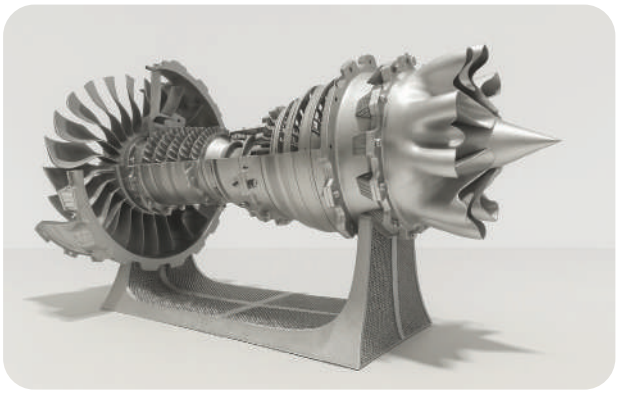
Efficient powder usage, low maintenance requirements, and no hidden overhead. The MX400 is built to keep your cost per part down, and your ROI up.

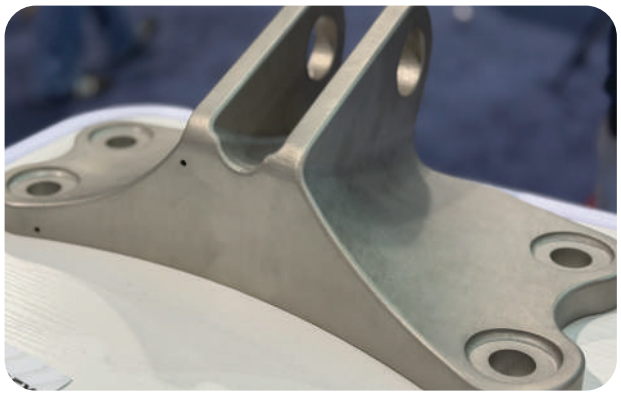
TECHNICAL SPECIFICATIONS

BUILD VOLUME	420 × 300 × 400 mm (16.54" × 11.81" × 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" | 2380×1420×2400mm
WEIGHT	9,260 lb | 4200 kg
VOLTAGE	208V - 480V

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





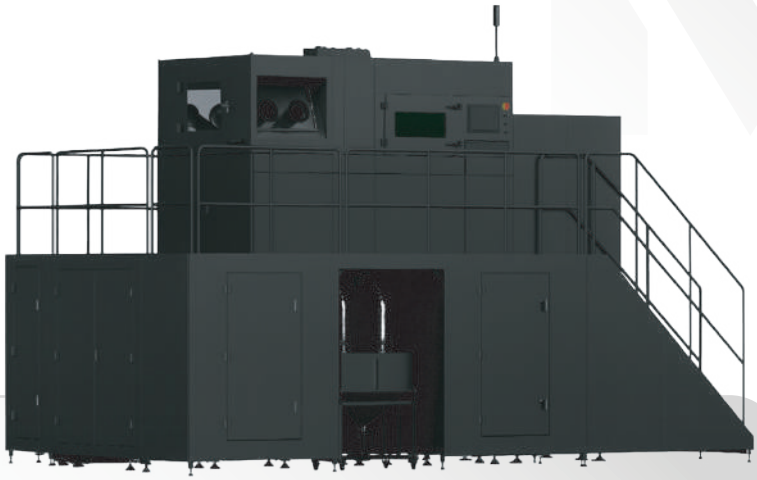




MX800

Work Area 800×600×1200mm

Laser Power 1000W*6



FEATURES

INDUSTRIAL-SCALE BUILD CAPACITY. DESIGNED FOR PERFORMANCE.

The MX800 is a large-format metal 3D printer designed for heavy-duty, industrial-scale production. With a massive build volume of 800 × 600 × 900 mm and six high-power lasers, it enables high-speed serial manufacturing of large components with consistent quality.

SIX LASERS, MAXIMUM EFFICIENCY

Powered by six coordinated 1000 W lasers, the MX800 ensures full-area coverage and parallel operation across the entire build platform. This configuration dramatically reduces print times while maintaining consistent accuracy and uniform part quality.

INTEGRATED POWDER MANAGEMENT SYSTEM

The MX800 features a sealed powder-handling system that maintains low oxygen levels to prevent oxidation and contamination. Powder recovery, sieving, and reuse are fully integrated, providing a clean, and safe workflow

EXCEPTIONAL SURFACE QUALITY

Parts emerge from the MX800 with a smooth, refined surface that minimizes the need for post-processing. It's ideal for functional prototypes, precision tools, and production-grade components, ensuring a professional finish straight from the build chamber.

HIGH PRECISION AND CONSISTENCY

A 70 µm laser spot size and 20 µm minimum layer thickness enable the MX800 to achieve fine geometric detail and reliable mechanical integrity. Every print maintains consistent resolution and structural performance, even in demanding applications.

BROAD MATERIAL COMPATIBILITY

Titanium, stainless steel, aluminum, cobalt-chromium, copper and more. The MX800 gives you the flexibility to develop and produce parts with the materials you need, with powder sourced from Mastrex or any supplier you choose.

SMART OPERATION

User-friendly software and intuitive controls simplify setup and operation, including for users new to metal 3D printing. Compatible with preferred slicing software, the systems can be integrated into existing workflows with minimal disruption.

COST-EFFICIENT AND RELIABLE

Designed for long-term performance, the MX800 combines low maintenance and operating costs with a dual air-flow optical protection system, ensuring durable, stable results for high-volume metal production.

TECHNICAL SPECIFICATIONS

BUILD VOLUME	800 × 600 × 1200 mm (31.50" × 23.62" × 47.24")
LASER POWER	1000W*6
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	6*7m/s
DIMENSIONS	204.7" × 88.6" × 141.7" | 5200×2250×3600 mm
WEIGHT	33,000 lb | 15,000 kg
VOLTAGE	208V - 480V

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

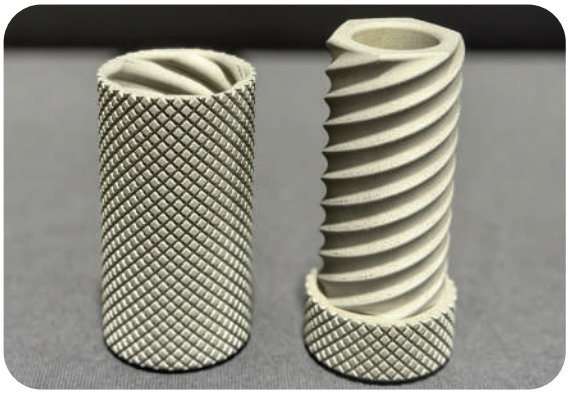
When you choose Mastrex, you gain more than a machine. You gain a partner in success. Our comprehensive service package includes:

- **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.

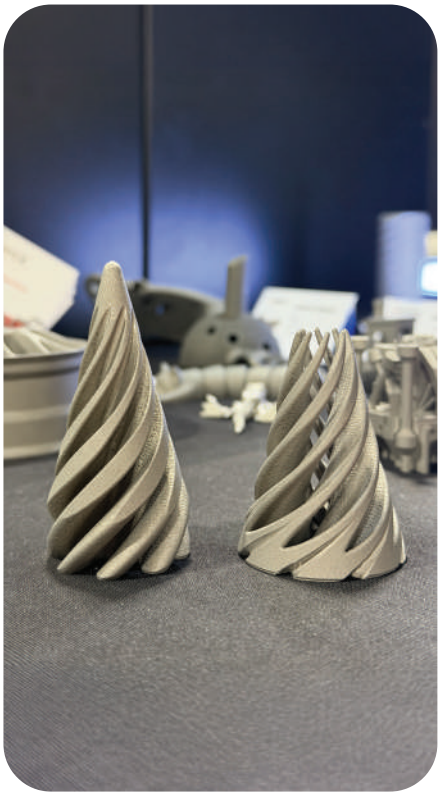
Take Your Business to the Next Level

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.

WWW.MASTREX.COM | INFO@MASTREX.COM







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