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.

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	1 × 300 W	Desktop prototyping, R&D, education	$39,000
MX120	Ø120 × 100	1 × 300 W	Larger prototypes, research labs	$49,000
MX150	150 × 150 × 120	1 × 500 W	Small-batch production, tooling	$89,000
MX220	220 × 140 × 200	2 × 500 W	High-throughput production	
MX300	300 × 300 × 350	2 × 500 W	Large parts, industrial R&D	
MX400	400 × 350 × 400	4 × 500 W	Serial production, integrated powder handling	
MX800	800 × 600 × 900	6 × 1000 W	Heavy-duty industrial production	

MX100 DESKTOP METAL 3D PRINTER

Work Area Ø100x80mm **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 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.

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 (4.0" × 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

MX120

Work Area Ø120x100mm | Laser Power 300W

Price: $49,000

FEATURES

HIGH-PERFORMANCE METAL 3D PRINTER IN A COMPACT PACKAGE

The MX120 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 MX120 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 MX120 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.

COST-EFFICIENT TO OWN AND OPERATE

Low operating costs and minimal maintenance requirements make the MX120 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	Ø120 × 100 mm (4.72" × 4.0")Ø120 × 100 mm (4.72" × 4.0")
LASER POWER	300W
LAYER HEIGHT	20-50μm
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	27.6" × 27.6" × 51.2" | 700×700×1300mm
WEIGHT	397 lb | 180 kg
VOLTAGE	120V

MX150

Work Area 150x150X120mm

Laser Power 500W

Price: $89,000

FEATURES

SCALABLE LPBF PERFORMANCE IN A COMPACT INDUSTRIAL FORM

The MX150 is built for users who need more, 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 real versatility, whether you're iterating designs or manufacturing end-use parts.

EFFORTLESS OPERATION

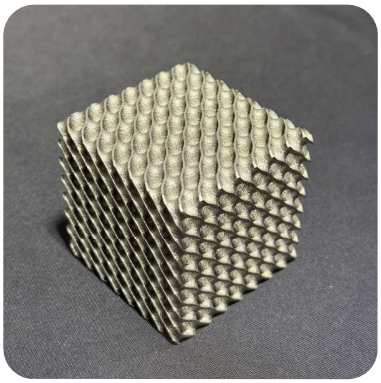
User-friendly software and intuitive controls make setup and operation simple, even for those new to metal 3D printing. Spend less time on training and more time producing functional metal parts.

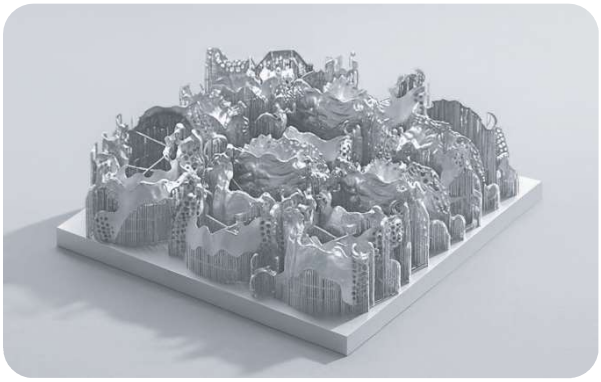
COST-EFFICIENT TO OWN AND OPERATE

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 × 120 mm (5.91" × 5.91" × 4.72")
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 220x140X200mm

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 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.

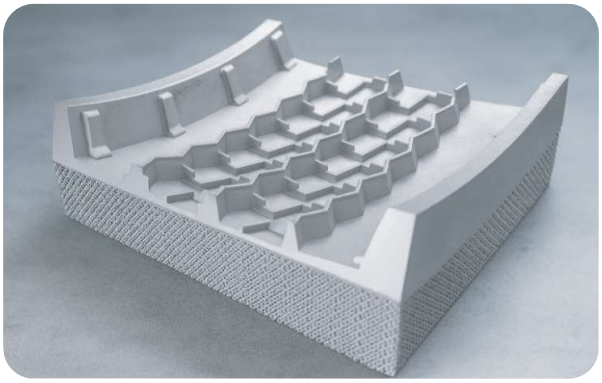
LOW OPERATING COSTS

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

TECHNICAL SPECIFICATIONS

BUILD VOLUME	220 × 140 × 200 mm (8.66" × 5.51" × 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	43.3" × 29.5" × 73" | 1100×750×1850mm
WEIGHT	1,102 lb | 500 kg
VOLTAGE	208V - 480V

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



MX300

Work Area 300x300x350mm

Laser Power 500W*2

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 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.

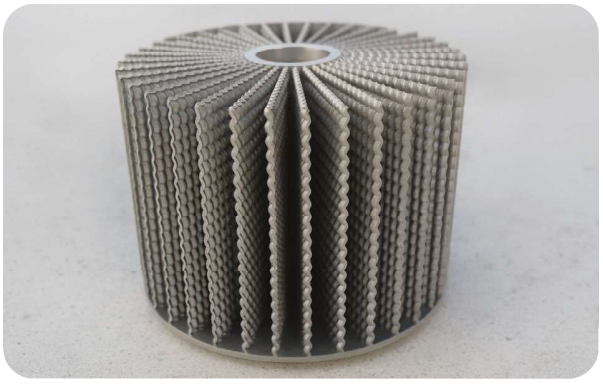
LOW OPERATING COSTS

Efficient powder usage, low maintenance requirements, and no hidden overhead. The 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 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.

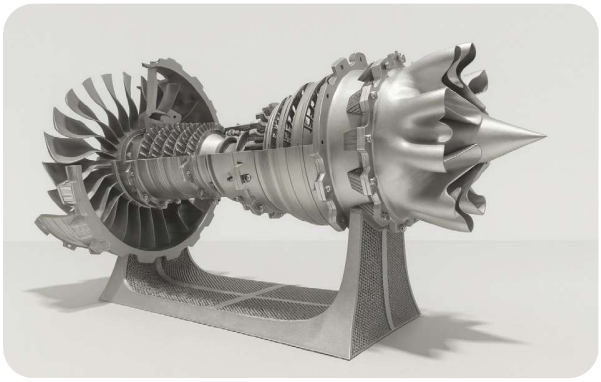
LOW OPERATING COSTS

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.



MX800

Work Area 800x600X900mm

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, safe, and efficient workflow for

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

The system supports a wide variety of materials, including aluminum, titanium, stainless steel, cobalt-chrome, and copper. This flexibility makes the MX800 suitable for aerospace, medical, research, and industrial environments alike.

SMART OPERATION

A modern software suite and touchscreen control interface make the MX800 straightforward to operate. Its intelligent workflow tools simplify setup, monitoring, and maintenance, reducing operator effort while maximizing output efficiency.

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 × 900 mm (31.50" × 23.62" × 35.43")
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	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

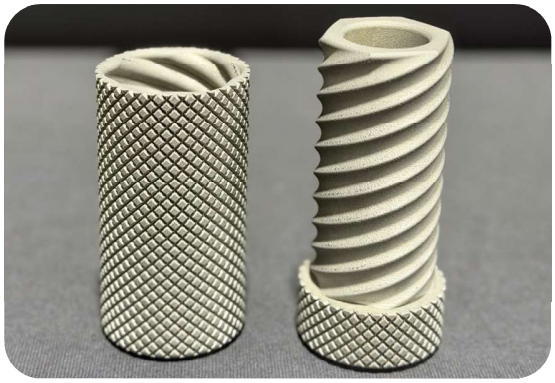
When you choose Mastrex, you gain more than a machine. You gain a partner in success. Our comprehensive service package includes:

- **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.

WWW.MASTREX.COM | INFO@MASTREX.COM



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