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AL LASER MARKING MACHINE

Professional fiber laser marker for permanent, high-precision marking on any material. Delivers fast, maintenance-free operation—ideal for lasting traceability, branding, and compliance marks.

PERMANENT HIGH-QUALITY MARKING

The machine delivers permanent, abrasion-resistant markings with high precision, ensuring the marks do not fade or wear off over time. This is crucial for traceability, branding, and compliance.

HIGH SPEED AND EFFICIENCY

It operates at very fast marking speeds (up to 12,000 mm/s), enabling high-volume production with consistent speed and quality, which enhances productivity.

VERSATILITY IN MATERIAL COMPATIBILITY

The AL laser machine can mark a broad range of materials including metals (steel, aluminum, brass, copper) and some non-metals. It handles various thicknesses and surface types, making it suitable for diverse industrial applications.

ADVANCED FEATURES AND AUTOMATION

Automatic motorized Z-axis focus, rotary attachments, flexible tables, and easy software. Supports batch, auto scan, and 3D/deep marking for versatile use.



C-70, INDUSTRIAL AREA, MOHALI,
PUNJAB, INDIA



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MATERIALS SUPPORTED



- Glass
- Leather
- Rubber
- Silicon
- PCB FR4
- Medical Devices
- Jewelry
- Electronics
- Ceramics Al₂O₃/ZrO₂
- PET
- Spring Steel
- Inconel 625/718
- Hastelloy C276
- ABS Plastics
- PC Plastics

- Barcodes & QR: 1D/2D codes, DataMatrix (High resolution)
- Color Marking: Titanium color effects (MOPA technology)
- Stainless Steel 304/316L/321
- Carbon Steel Q235/Q345
- Aluminum Alloy 5052/6061/7075
- Brass C260/C360
- Copper C101/C110
- Titanium Grade 2/5
- Tool Steel
- PC Plastics
- PVC
- Acrylic PMMA
- Nylon PA

**20W MOPA
Laser**

Marking Area: 110x110mm

Max Depth: 0.3mm

Speed: 8000mm/s

5000+
Parts/Day

**30W MOPA
Laser**

Marking Area: 200x200mm

Max Depth: 0.4mm

Speed: 10000mm/s

10000+
Parts/Day

**50W MOPA
Laser**

Marking Area: 300x300mm

Max Depth: 0.6mm

Speed: 12000mm/s

15000+
Parts/Day



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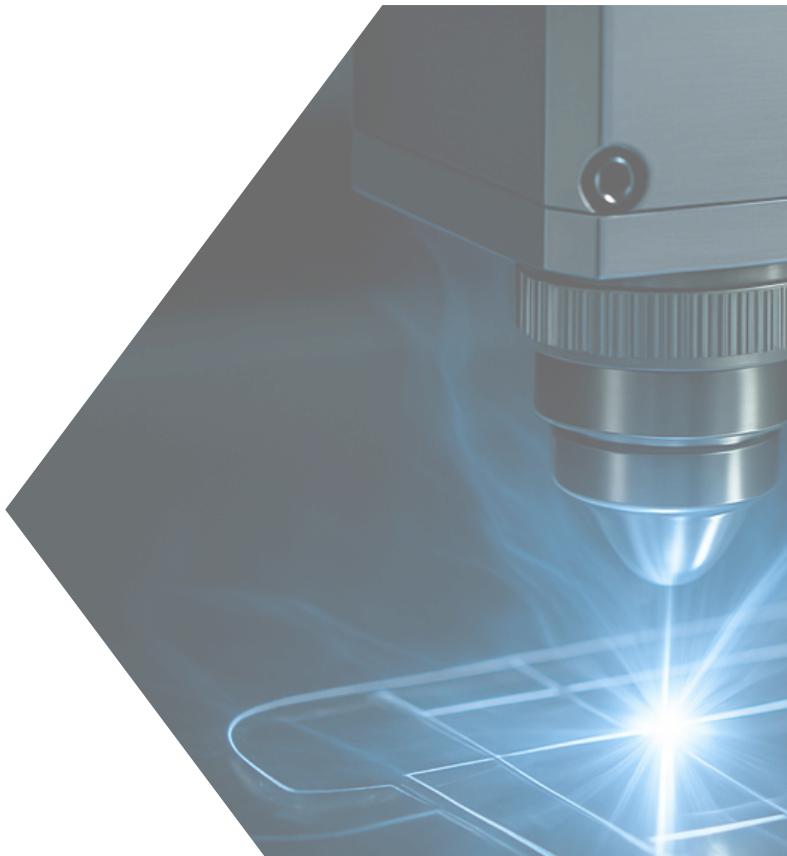


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TECHNICAL SPECIFICATION

Marking Area Standard	110 x 110 mm
Marking Area Large	200 x 200 mm
Marking Area Custom	300 x 300 mm
Marking Depth Min	0.005 mm
Marking Speed Max	12000 mm/s
Marking Speed Text	8000 mm/s
Marking Speed Graphics	5000 mm/s
Marking Speed Deep	1000 mm/s
Repeat Accuracy	±0.002 mm
Laser Type	MOPA Fiber Laser
Wavelength	1064 nm
Pulse Frequency	20-4000 kHz
Pulse Width	0.2-500 ns
Beam Quality	M ² < 1.2
Cooling System	Air Cooling
Power Consumption 20w	300 W
Power Consumption 30w	400 W
Power Consumption 50w	600 W
Operating Temperature	5-40 °C
Humidity	≤85%
Control System	EzCad Pro 2024
Interface	USB 2.0 / Ethernet

File Formats	PLT / DXF / BMP / JPG / AI / CDR
Character Height Min	0.1 mm
Character Height Max	50 mm
Line Width Min	0.01 mm
Line Width Max	2 mm
Marking Fonts	TrueType / Vector
Barcode Support	1D / 2D / QR / DataMatrix
Serial Numbering	Automatic
Date Time Marking	Real-time
Setup Time	30 seconds
Maintenance Interval	10000 hours
Safety Class	Class 1 Enclosed
Certifications	CE / FDA / RoHS



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INDIA'S BEST MANUFACTURER OF FIBER LASER CUTTING MACHINES



Sheet Cutting



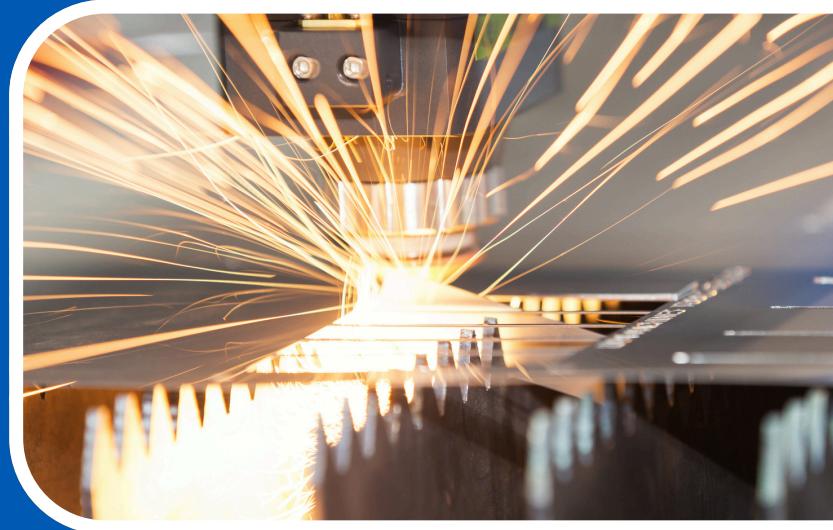
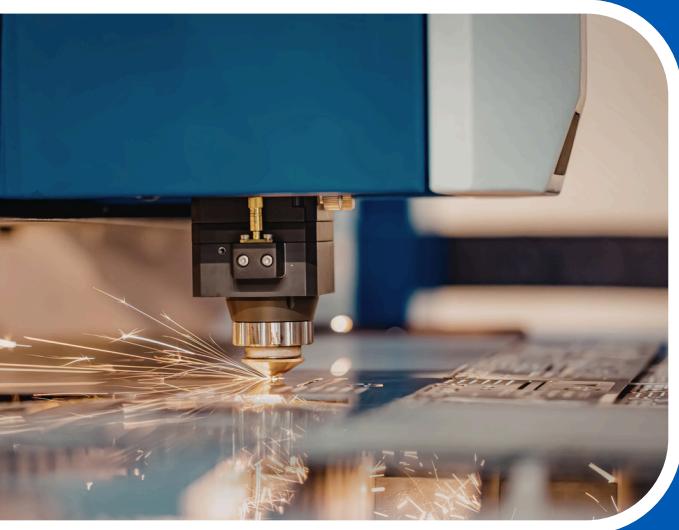
Tube Cutting



Laser Welding



QBH Splicing



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