



HAAS LASER MARKERS

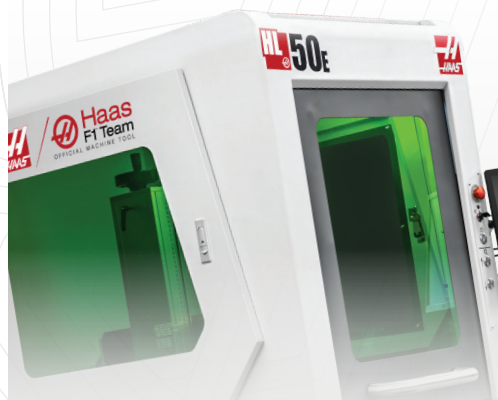
PICKING THE RIGHT TOOL FOR THE JOB



The best laser for your shop depends on what you're marking. Haas laser markers come in three distinct types, each optimized for a different family of materials. **Choose the one that fits your application, or combine them to cover every job in your shop.**

Metal Marking

HL-50E Series



A fiber laser is the workhorse of metal shops. A near-infrared beam delivers fast, high-contrast marks on bare and coated metals with high repeatability.

Ideal Use-Cases:

Industrial marking, serialization, QR codes, anodized aluminum, and tooling identification.

Keep in mind:

Non-metallic, plastic, or organic materials with low thermal conductivity may not mark cleanly and may melt or burn.

Mixed-Use Marking

HL-10E-UV



A UV laser is designed for delicately marking a wide variety of materials. The short, ultraviolet wavelength produces an extremely fine line width, with minimal heat.

Ideal Use-Cases:

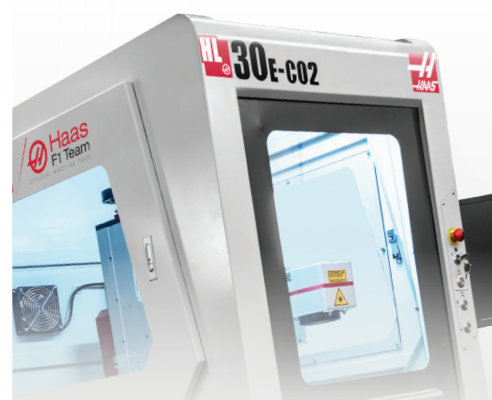
Glass and ceramics, plastic components, heat-sensitive substrates, and fine detail work.

Keep in mind:

Quality and material sensitivity come at the cost of speed.

Organic Materials Marking

HL-30E-CO2



A CO₂ laser's long-wave infrared beam is absorbed naturally by non-metallic and soft materials, producing rich, high-contrast marks at high speed.

Ideal Use-Cases:

Wood products and furniture, leather goods, denim, acrylic signage, and packaging.

Keep in mind:

The CO₂ lasers cannot mark bare metals well.

Choosing Your Lens

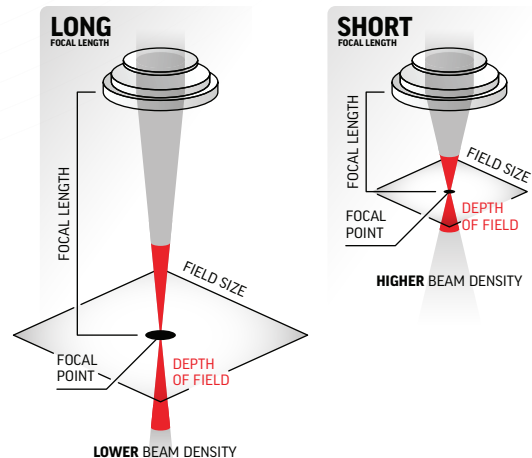
Haas laser markers use a galvanometer-driven F-Theta lens system to direct the beam across the marking field. Some models have two lenses available, each optimized for a different type of work.

Long focal length

A wider depth of field and larger field size makes it better suited for larger marking areas and parts with uneven surfaces.

Short focal length

A smaller field with a finer focal point and higher beam density makes it ideal for detailed work and precise marks.





LIGHTBURN

Customize your creative assets

Artwork, graphics, and decals can be imported in a variety of formats.

Total control of the machine

Laser power, frequency, speed, number of passes, and more can be easily adjusted.

Ready to run

LightBurn is preinstalled on the integrated desktop, and each purchase includes a lifetime license.

The HL-50E Series

LASERS FOR EVERY SIZE

Whatever the size of your metal parts, there's a Haas Fiber Laser configuration to match.

HL-50E

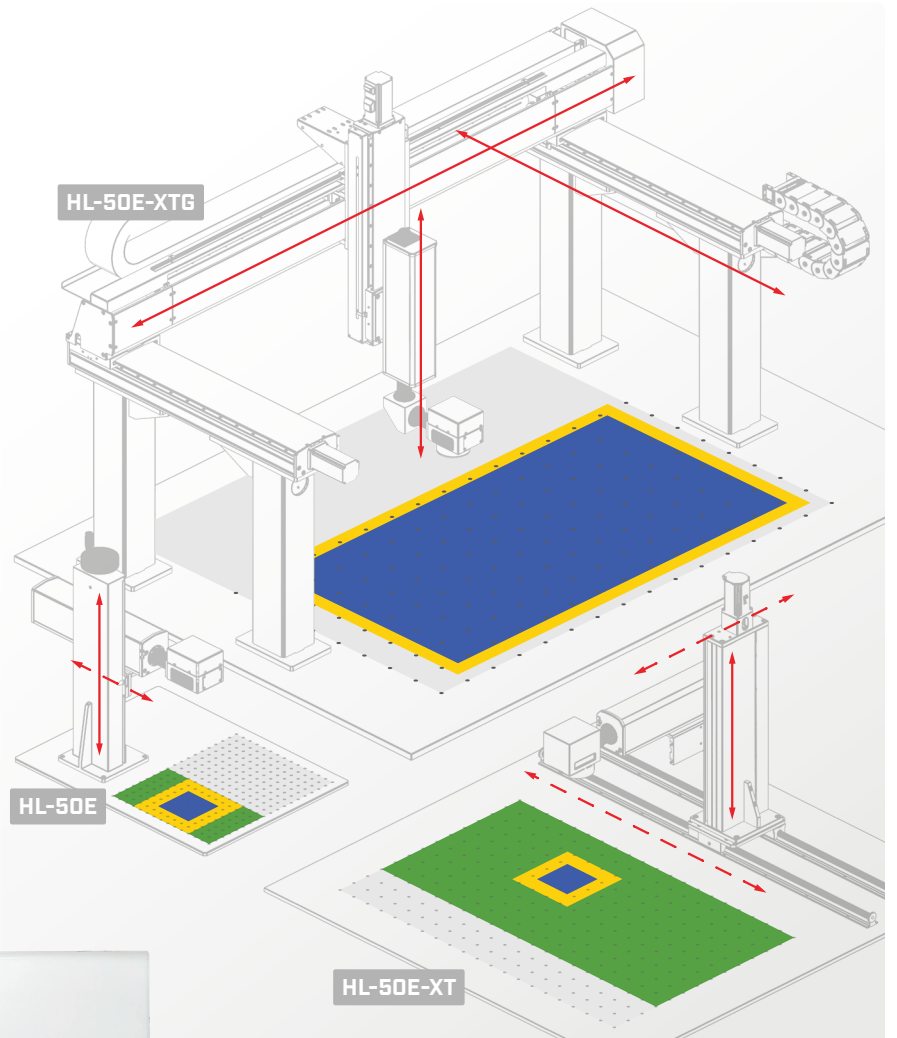
Perfect for single parts and small batch runs, with a manually adjusted Y-axis and motorized Z-axis positioning.

HL-50E-XT

Larger parts and higher-volume setups, adding a manual X-axis gantry across the extended bed, and greater Y-axis movement.

HL-50E-XTG

Ready for faster production runs across the largest full work envelope, with a motorized 3-axis gantry system.



- Positionable Marking area
- F-160 Marking Area
- F-290 Marking Area
- - - Manual Axis
- — — Motorized Axis



HAAS LASER MARKER SPECS



Model	HL-30E-CO2	HL-10E-UV	HL-50E	HL-50E-XT	HL-50E-XTG
Wave Classification	Long-Wave Infrared	Ultraviolet		Near Infrared	
Wavelength	~10600 nm	~355 nm		~1060 nm	
Gain Medium	Solid-State Nd:YVO ₄	Gas (CO ₂)		Fiber Optic	
Power	30 W	10 W		50 W	
Cooling	Air Cooled	Water Cooled		Air Cooled	
Repeatability	±0.0001 in (±0.003 mm)	±0.00008 in (±0.002 mm)		±0.0001 in (±0.003 mm)	
Min. line width	0.004 in (0.1 mm)	0.0002 in (0.005 mm)		0.0004 in (0.01 mm)	
Source Lifespan	40,000 hrs	25,000 hrs		100,000 hrs	
Fixture Plate	17.7 x 13.8 in (450 x 350 mm)			39.3 x 25.5 in (1000 x 650 mm)	59 x 49.2 in (1500 x 1250 mm)
Lens Marking area	F-300-CO2: 4.3 x 4.3 in (210 x 210 mm)	F-160-UV: 4.3 x 4.3 in (110 x 110 mm)	F-160: 4.3 x 4.3 in (110 x 110 mm)		
		F-290-UV: 7.8 x 7.8 in (200 x 200 mm)	F-290: 7.8 x 7.8 in (200 x 200 mm)		
Positionable Marking Area	7.9 x 13.8 in (200 x 350 mm)			39.3 x 19.7 in (1000 x 500 mm)	F-160: 49.8 x 27.6 in (1265 x 700 mm) F-290: 53.3 x 31.1 in (1355 x 790 mm)
Positioning	Manual Y, Motorized Z	Manual Y, Motorized Z	Manual Y, Motorized Z	Manual X/Y, Motorized Z	Motorized X/Y/Z

MARKING ON CURVES

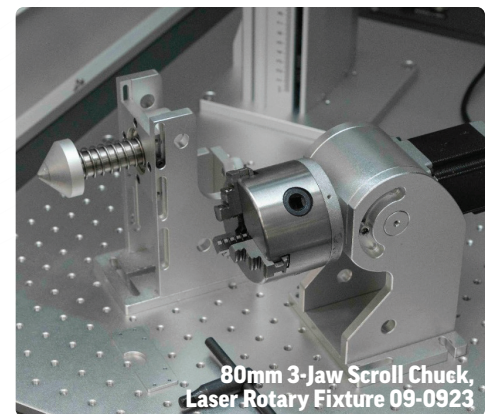
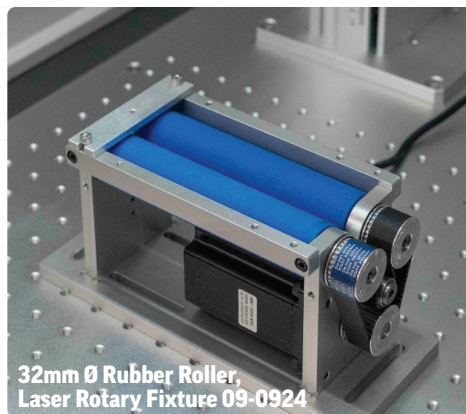
These hassle-free rotary fixtures are designed for easy installation.

Plug and play

A standard 4-pin aviation plug eliminates complex wiring or additional configuration steps.

LightBurn integration

Simply enable the rotary function within LightBurn once connected.



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