

Firescan Series Laser Engravers



Application: The firescan series laser engravers are for permanent, durable, abrasion proof, and chemical resistant marking of metals and other materials. Used in production and retail shops as well.

Compact and simple handling make the Firescan laser engraver perfect for smaller workshops and studios, particularly during watch and jewelry production.

Unlike cost intensive water cooling models, the Firescan laser engraver relies on maintenance free thermoelectrical air cooling. Reduced operating cost makes Firescan laser engraver a great alternative to conventional engraving and marking techniques.

High pulse peak performance allows for fast and high contrast engravings on practically all metals, precious metals, ceramics, foils, plastics, as well as certain types of wood or leather. Powerful enough to withstand final polishing.

Maximum radiation qualities provide clean, first class engravings.

Engrave the inside or outside of rings. Use the optional rotary attachment to do the complete diameter as well.

Software

Firescan's operator friendly software can be run on Windows XP or Windows 7.

The Firescan comes in **optional housing features:**

- Professional, Comfort, Basic, Open System, and Flexlift. Each Housing Unit functions with the same Firescan Head. The Firescan head is available in 8w, 12w, 18w.

	Starlight			Firescan 8W			Firescan 12W			Firescan 18W		
Wave Length	1.064 nm			1.064 nm			1.064 nm			1.064 nm		
Diode Power	10W			25W			35W			50W		
Laser Power	5W			8W			12W			18W		
Quality of Laser Beam	TEM ₀₀ , M ² <1.2			TEM ₀₀ , M ² <1.2			TEM ₀₀ , M ² <1.2			TEM ₀₀ , M ² <1.2		
Pilot Laser	integrated, 650 nm / 1 mW			integrated, 650 nm / 1 mW			integrated, 650 nm / 1 mW			integrated, 650 nm / 1 mW		
Power Consumption	100 W			200 W			250 W			300 W		
Pulse Frequency	1 - 100 kHz			1 - 100 kHz			1 - 100 kHz			1 - 100 kHz		
Lens	F-Theta 100	F-Theta 163	F-Theta 254	F-Theta 100	F-Theta 163	F-Theta 254	F-Theta 100	F-Theta 163	F-Theta 254	F-Theta 100	F-Theta 163	F-Theta 254
Spot Diameter	25µm	35µm	50µm	25µm	35µm	50µm	25µm	35µm	50µm	25µm	35µm	50µm
Size of Marking Field	70 x 70	120 x 120	200 x 200	70 x 70	120 x 120	200 x 200	70 x 70	120 x 120	200 x 200	70 x 70	120 x 120	200 x 200
Dimensions (L x W x H)	600 mm x 235 mm x 200 mm			740 mm x 201 mm x 233 mm			740 mm x 201 mm x 233 mm			740 mm x 201 mm x 233 mm		
Weight	15kg			20kg			20kg			20kg		
Cooling	integrated thermoelectric air cooling			integrated thermoelectric air cooling			integrated thermoelectric air cooling			integrated thermoelectric air cooling		
Laser Protective glass	4, optional laser protective class 1			4, optional laser protective class 1			4, optional laser protective class 1			4, optional laser protective class 1		

Optional Housing for your Firescan Laser Engraver



Comfort Safety Housing

- Automatic Z-axis (100 mm)
- Automatic lift door
- Aluminum t-Slotted clamping plate
- Comfort operation panel
- Extra large safety window
- LED illumination
- Laser class 1.



Basic Safety Housing

- Automatic Z-axis (100 mm)
- Aluminum baseplate
- Illuminator
- Laser class 1.



Open System Housing

- For open use:
- Includes automatic Z-axis (100 mm)
 - Aluminum baserplate
 - Laser class 4.



Professional Safety Housing

- Automatic Z-axis (450 mm) Automatic X-axis (550 mm) Automatic Y-axis (350 mm)
- Lift door
- Aluminum T-Slotted clamping plate
- Comfort operation panel, large safety window
- LED illumination
- Laser class 1.

Other Equipment Options for your Laser Engraver

Rotary Axis

For use with the Firescan and
Starlight laser engravers.
- 360° inside and outside
engraving rings



Adaptor for Asymmetric Rings

- Rotary axis adaptor for oval and fancy
shaped rings



Matrix Table

- Aluminum table with matrix and
holders for flat marking.
- Fits into the stand of the Rotary
Axis.

