



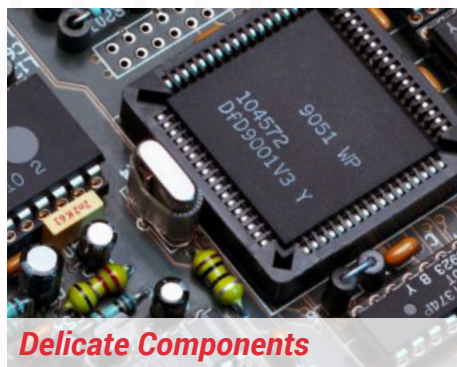
EVCDS DIODE-PUMPED SOLID STATE LASER

Unparalleled Versatility

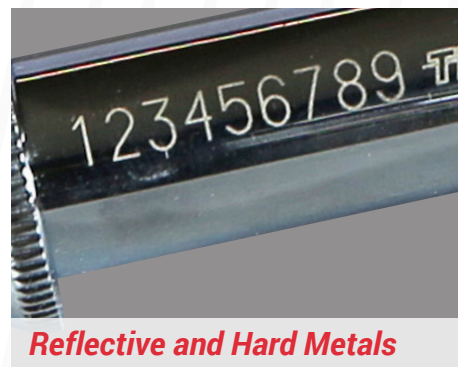
**LOW COST, HIGH SPEED ENGRAVING AND ANNEALING
FOR AN ARRAY OF PRODUCT MATERIALS**



Heat-Sensitive Plastic



Delicate Components



Reflective and Hard Metals

MAKE YOUR MARK

> OPERATIONAL VERSATILITY

The depth of field can accommodate a surface variance of +/- 4mm without Z-axis adjustment. The device's compact footprint and modular design fits almost anywhere.

> SIMPLE IMPLEMENTATION

The EVCDS easily integrates into manual off-line and automated in-line applications for quick and easy start-up.

> LOW COST

Requiring very little maintenance, the EVCDS boasts having virtually no down time. The expected lifetime of pump diode exceeds 500,000 watt-hours.



Powered by the reliable E15 controller, the EVCDS can be configured to connect with an external computer or with an embedded computer.

Dimensions (W x H x D)

437.9 x 140.2 x 393.7mm
(17.24 x 5.52 x 15.50in)

Surrounding Envelope

564.9 x 152.4 x 596.9mm
(22.24 x 6.00 x 23.5in)

Weight

Approximately 15kg (33lbs)

Cooling

Air cooled, active thermo-electric

Power Requirements

115 VAC, single phase, 6A 50/60Hz
230 VAC, single phase, 3A 50/60Hz

Max Voltage

254 VAC

Operating Temp / Recommended Temp

15 to 35°C / 20 to 25°C

Ambient Relative Humidity

10 to 85% non-condensing

STANDARD LENSES

LENS #	LENS	MOUNTING RING + SPACER KIT	IMAGE FIELD		WORKING CLEARANCE	
88848	F160mm	89480	110mm x 110mm	4.33in x 4.33in	181mm	7.13in
89313	F254mm	89480	175mm x 175mm	6.89in x 6.89in	292mm	10.50in

PREMIUM LENSES

42553	F100mm	62837 + 89739	65mm x 65mm	2.56in x 2.56in	97mm	3.82in
29942	F160mm	62838 + 89740	110mm x 110mm	4.33in x 4.33in	176mm	6.93in
42555	F254mm	62840 + 89741	175mm x 175mm	6.89in x 6.89in	296mm	11.65in
42556	F330mm	62841 + 89742	230mm x 230mm	9.06in x 9.06in	387mm	15.24in
30638	F420mm	62842 + 89743	290mm x 290mm	11.42in x 11.42in	493mm	19.41in

Compliance

CDRH, CE

Laser Type

fiber-coupled, diode-pumped,
Q-switched, Nd:YVO₄
1064 nanometers (nm)

Mode

TEM-00

Long Term Output Power Drift

< ± 2%

Laser Diode MTTF

500,000 hours

Power Requirements

95 to 250 VAC, single-phase
6A, 50/60 Hz

System Power (total)

< 400 watts

Maximum Supply Voltage

264 VAC

Supply Voltage Fluctuation

< ±10% with clean ground line

Operational Temperature

15° to 35°C (59° to 95°F)

Recommended Temperature

20° to 25°C (68° to 77°F)

Ambient Relative Humidity

10% to 85% non-condensing

Cooling

air cooled, active thermo-electric

Fiber Optic Cable Length

Standard: 1.75 m (5.74 ft)
Optional: 4.75 m (15.58 ft)