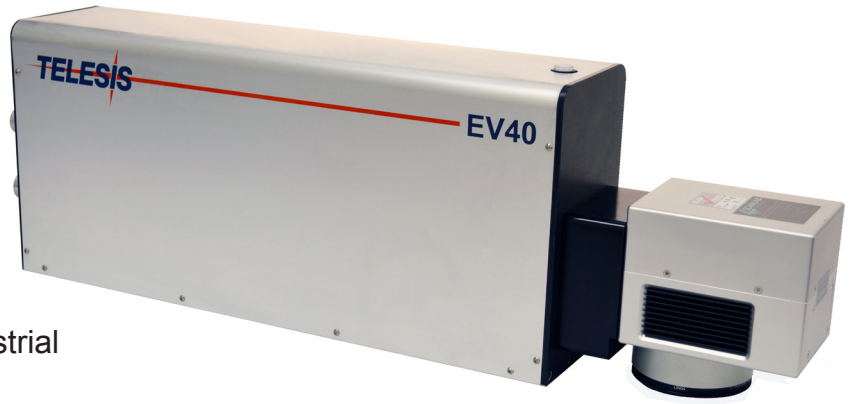




E-Series - EV40 Diode-Pumped Solid State Laser

The EV40 is a high throughput laser marker featuring a Q-switched Nd:YVO₄ diode pumped, air-cooled laser design with high speed digital galvo scanners. This laser provides high quality laser beam characteristics including a long focal tolerance combined with up to 2mJ pulse energies and high average powers at 1064nm, allowing these systems to achieve high-speed, rapid deep marking of metals or composite materials on flat and curved surfaces and offers the user best-in-class reliability with a low cost of ownership. In addition, the integrated proprietary graphical laser software and optimized electronics make these systems the best solution for many high speed marking on the fly (MOTF*) applications. The robust mechanical and optical design allows these lasers to operate without any chiller in an industrial environment where shock, vibration, and dust are a concern while maintaining stable output power and an expected diode MTTF of 75,000 hours. The small footprint allows for easy integration into manual off-line and automated on-line configurations, making it ideal for a wide range of industrial marking applications.



LASER MARKER SPECIFICATIONS

Compliance.....	CDRH, CE
Wavelength.....	1,064nm
Laser Type.....	Fiber-coupled diode end-pumped Q-switched Nd:YVO ₄ laser
Laser Beam Mode.....	TEM ₀₀
Average Power.....	Up to 40W
Positioning.....	Visible Red Diode Light
Optical Fiber Length.....	1.75 meters (5.74 feet) standard
Mounting Weight.....	approx. 20.0kg (44.2lbs.)
Marking head dimensions.....	22.4(W) x 23.0(H) x 74.3cm(L) (8.8" x 9.1" x 29.3")
Controller dimensions.....	43.9(W) x 21.1(H) x 43.9cm(L) (17.3" x 8.3" x 17.3")
Controller Weight.....	17.3kg (38.0lbs.)
Input Power.....	115/230VAC 50/60Hz
System Power Consumption.....	< 950W
Cooling.....	Air Cooled, active thermo-electric (no water cooling required)
Operating Temperature Range.....	18° to 35°C (65° to 95°F)
Humidity.....	10% to 85% Non-condensing

STANDARD LENS CONFIGURATIONS

FOCAL LENGTH	MARKING FIELD
100mm.....	65mm X 65mm (2.56" X 2.56")
160mm.....	110mm X 110mm (4.33" X 4.33")
254mm.....	175mm X 175mm (6.88" X 6.88")
330mm.....	230mm X 230mm (9.06" X 9.06")
350mm.....	250mm X 250mm (9.84" X 9.84")
420mm.....	290mm X 290mm (11.42" X 11.42")

SOFTWARE

Software.....	MERLIN® II LS
Operating System.....	Windows® 2000, Windows XP, Windows Vista™, Windows® 7, or Windows® 8 with Optional Embedded, Desktop or Rackmount PC
Communication Interface.....	Serial, TCP/IP, I/O

*MOTF Versions and embedded PC versions available
at an additional charge



Engraved approximately 4mm deep in aluminum



QR Code Web Page Product Link

DATA MATRIX™ 2-D Code Marking Capability
Meets all Department of Defense UID Requirements