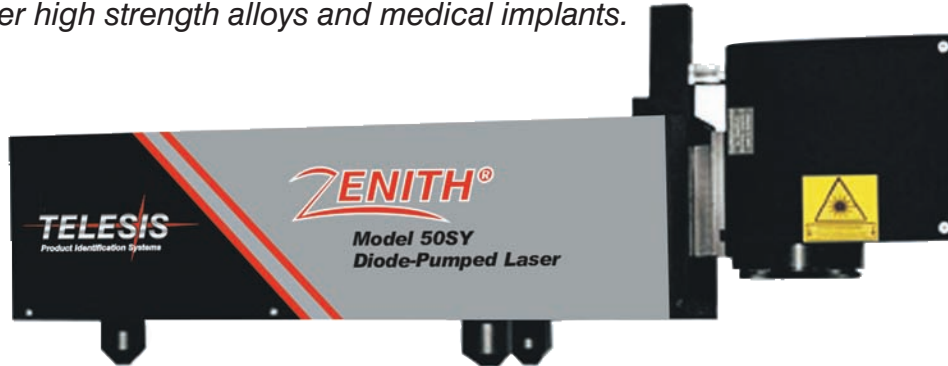


The diode-pumped ZENITH<sup>®</sup> 50SY is configured for high precision, high speed marking. Features include high quality beam performance and low maintenance. It's an economical choice for marking titanium and other high strength alloys and medical implants.

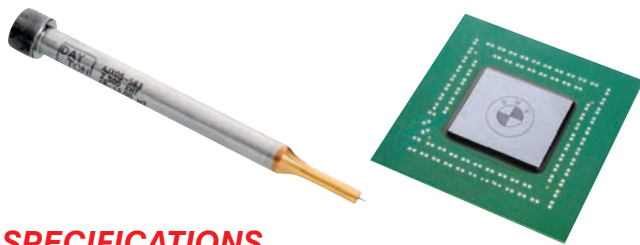


## FEATURES

- Unique, Three Rail Design for Easy Alignment, Increased Power and Thermal Stability
- Lightweight, Dust Sealed Rail Cover
- Fixed Beam Expander
- Safety Shutter, Co-Axial Red Diode Pointer and Emission Light for Simple Operation

## DIMENSIONS

Laser..... 8" W x 8" H x 33" L  
 Water Chiller System..... 12.6" W x 23.5" H x 20.9" D  
 Umbilical Length..... 6 Feet [detachable]



## SPECIFICATIONS

Compliance .....CDRH, CE, UID  
 Type .....Nd: Diode-pumped YAG  
 Wavelength .....1,064 Nm  
 Average Power..... 50 Watts  
 Mode .....Q-Switched  
 Q-Switch Frequency .....2 to 50 KHz  
 Marking Speed .....02 to 197 in/sec  
 (.5 to 5000 mm/sec.)  
 Marking Fields .....Several Available  
 Electrical.....Single phase, 110V,  
 60Hz nominal  
 Total System Power  
 Consumption .....2.2 kW input AC Power  
 Internal DI Water .....Requires (1.5) gallons,  
 steam distilled  
 External Cooling Water..... Not required



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

## LASER CONTROLLER SYSTEM FEATURES

- Self-Contained Remote DI Water System / DI and Particle Filters (No External Chiller Required)
- Flow and Temperature Sensors
- Keyswitch and E-Stop with Manual Shutter Control
- 1<sup>st</sup> Pulse Suppression Circuitry
- System PC, Mounted directly in control cabinet
- Alternate electrical box for mounting/wiring peripheral components



## LENS CONFIGURATIONS AVAILABLE

Focal Length	Marking Field	Work Clearance
100mm	45mm x 45mm (1.8" x 1.8")	97mm (3.82")
160mm	90mm x 90mm (3.5" x 3.5")	176mm (6.93")
163mm	110mm x 110mm (4.3" x 4.3")	185mm (7.28")
254mm	155mm x 155mm (6.1" x 6.1")	296mm (11.65")
* 330mm	215mm x 215mm (8.4" x 8.4")	387mm (15.23")
* 420mm	275mm x 275mm (10.8" x 10.8")	493mm (19.40")

\* Application dependent