

# Microlase<sup>TM</sup> Diode

LASER MARKING SYSTEMS



## SYSTEM ACCESSORIES

- *Powered & Programmable Z-Axis*
- *Rotary Indexing Table*
- *2D Data Matrix & Barcode reading and verifying*
- *Scanners & Cameras*
- *Fume Extractors*
- *Additional Side Doors*
- *Nameplate Feed System*
- *X-Y Tables*
- *5-C Collet & 3 Jaw Chuck rotary Indexers*
- *Multiple Lens Sizes*
- *Light Curtains*
- *Manual & Powered Doors*

### Schmidt's MicroLase Systems offer an innovative step forward in Industrial Laser Marking.

Schmidt lasers provide a fast, flexible and efficient way to permanently mark a wide variety of materials such as, metals, glass, plastics, ceramics, silicon, and organics. Schmidt lasers are commonly used for part identification and traceability to mark serial numbers, customer data, logos, graphics, material flow, barcodes, and 2D data matrix. Schmidt laser systems are also used in non-marking applications such as cutting, drilling, and patterning for processing of materials such as thin sheets, ceramics and silicon.

Schmidt MicroLase diode lasers can be easily integrated into tabletop marking systems, automated manufacturing cells, and customized multi-axis machine tools. Depending on the specific application requirements, Schmidt diode lasers can be mounted in a safety interlocked Class I certified enclosure or operated in a Class 4 environment with protective eye wear.

Schmidt has installed and supported laser systems for a wide variety of customers in industries such as automotive, aerospace, dental, medical, energy, solar, jewelry, electronics, machine tools, and more.



Laser marked 2D Data Matrix

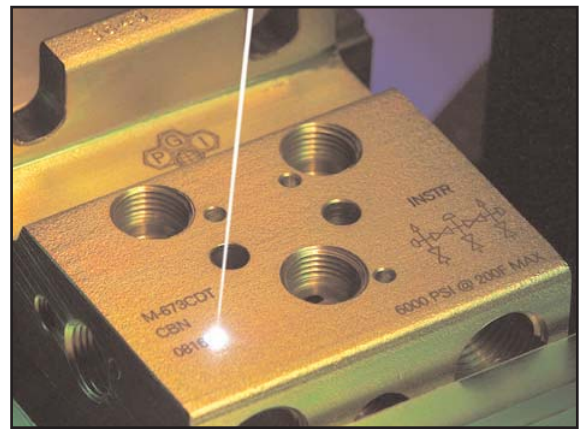


**SCHMIDT**  
MARKING SYSTEMS

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[www.gtschmidt.com](http://www.gtschmidt.com)

Laser marking is a non-contact, permanent marking method for a wide variety of materials. Lasers provide you the ability to engrave, ablate, foam and anneal various materials. It is superior to all other marking methods with regard to flexibility and speed. Through sample part marking, our technicians can help you determine the best laser for your application.



## Technical Data\*

### AVAILABLE LASER SOURCES

Wattage	3W	4W	10W	6W	10W	20W	27W	60W
Diode Source	UV	Green	Green	Infrared	Infrared	Infrared	Infrared	Infrared
Wavelength	355nm	532 nm	532 nm	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm
Pulse Reps.	20-100 kHz	20-100 kHz	20-100 kHz	15-200 kHz	10-100 kHz	20-300 kHz	20-100 kHz	up to 200kHz
Cooling	Air	Air	Air	Air	Air	Air	Air	Internal Water
Beam Quality	$M^2 < 1.3$	$M^2 < 1.2$	$M^2 < 1.2$	$M^2 < 3$	$M^2 < 2$	$M^2 < 2$	$M^2 < 3$	$M^2 < 6$

### SCANNING HEADS

Focusing Lens	110 mm	160 mm	254 mm	330 mm	420 mm
Working Area	60 x 60 mm	110 x 110 mm	180 x 180 mm	230 x 230 mm	290 x 290 mm
Working Distance	118 mm	190 mm	299 mm	387 mm	493 mm

\*Subject to alterations to accommodate technical developments.



Benchtop Enclosure



Class 4 - no enclosure



Rotary Table Fixture



Large Part Work Station



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