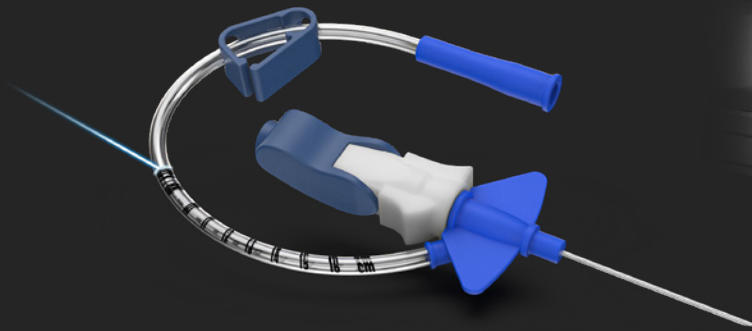


LINEAR UV LASER SYSTEM

The Linear UV Laser System offers high precision and speed for marking, micro-machining and material processing applications. Its compact footprint enables delicate marking on plastics, glass, metals, ceramics, PCBs, making it perfect for high-volume marking of sensitive materials.

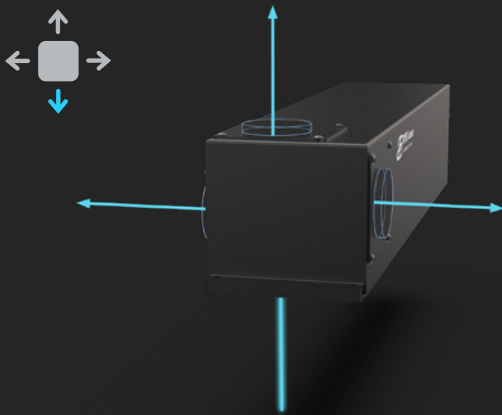


FASTEST UV LASER IN THE INDUSTRY

Our UV laser system delivers industry-leading speed and precision for high-performance manufacturing in demanding industries. Its high repetition rate and short pulse duration allow high-contrast and delicate marking with minimal heat input, making it ideal for high-throughput operations.

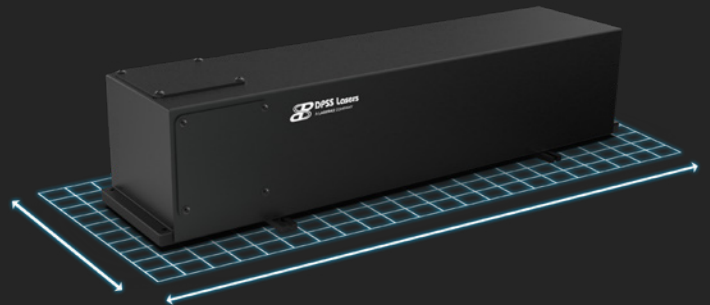
READY FOR MARKING ON THE FLY

Our easy-to-use marking software combined with a high-speed galvo scanner enables consistent marking on moving parts. For MOTF serialization, it can communicate with other production devices and be integrated into automated production lines.



LASER PROCESS VERSATILITY

Thanks to its flexible process parameters, our UV laser system can perform non-thermal marking, texturing and micro-machining through 4 output orientations (top, bottom, left or right). This versatility makes it ideal for a wide range of components in the medical, aerospace and electronics industries.



COMPACT OEM DESIGN

Built with easy integration in mind, the UV laser system has compact dimensions (914 x 269 x 210 mm) that allow flexible installation even in space-constrained factories.

LASER SPECIFICATIONS

	UV ns	UV ps	UV fs	IR fs
Nominal Laser Output Power (Watts)	1, 2, 3, 5, 10, 20, 40, 55	3, 10, 20, 50	5, 10	10, 20, 30, 40, 50, 60, 70, 80
Power Consumption	900 W - 2000 W			
Laser Type (Diod Pump Solid State)	UV			IR
Supply Voltage	90 - 240 VAC			
Pulse Energy	300 uJ - 500 uJ	50 - 200 uJ	20 - 200 uJ	50 - 200 uJ
Pulse Width	7 - 50 ns	2 - 10 ps	270 - 400 fs	
Wavelength	355 nm		343 nm	1030 nm
Beam Quality	TEM 00 < 1.3			
Laser Safety Class	Class 4 laser product: CSA-E60825-1:15, 21 CFR 1040.10, IEC 60825-1			
Cooling	Water (Air Cool Optional < 10 W)			
Laser Source MTBF	10 000 - 15 000 Hours			
Barcode Validation (Optional)	External			
I/O	Hardware IOs (DB37)			
Communications	TCP/IP or RS232			
Dimensions (L x W x H)	914 x 269 x 210 mm	1000 x 305 x 203 mm	1000 x 305 x 254 mm	
Weight	20 kg - 40 kg	30 - 50 kg	50 - 90 kg	
Environmental Conditions	10 °C to 35 °C			
Approvals	CE			
Cooling System Dim. (L x W x H)	287 x 224 x 389 mm	287 x 224 x 389 mm	592 x 377 x 650 mm	
Cooling System Weight	9 kg		40 kg	
Nominal Spot Size	10 - 100 µm		20 - 120 µm	30-150 µm

LENS SPECIFICATIONS

	UV ns	UV ps	UV fs	IR fs
Effective Z-Focusing Range (3D heads)	Typical +/- 15mm			

	F-Theta (Flat Field Lens)						Non Flat						
Focal Length (mm)	F-56	F-103	F-250	F-330	F-511	F-810	150	200	250	300	400	500	1000
Max Scanning Speed	Up to 16 m/sec												
Nominal Spot Size (µm)	7	12	25	30	50	60	16	20	25	30	40	50	100
Nominal Marking Distance (mm)	122	220	388	399	674	1063	150	200	250	300	400	500	1000
Effective Z-Focusing Range (3D heads)	+/- 15 mm												
Nominal Marking Field Size (mm)	16 x 16	50 x 50	160 x 160	205 x 205	305 x 305	445 x 445	29 x 29	42 x 42	61 x 61	80 x 80	125 x 125	170 x 170	350 x 350
Depth of Focus	25 µm	66 µm	185 µm	400 µm	1.15 mm	1.66 mm	460 µm	738 µm	738 µm	1.66 mm	3.20 mm	4.61 mm	18.46 mm

CONTACT US

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