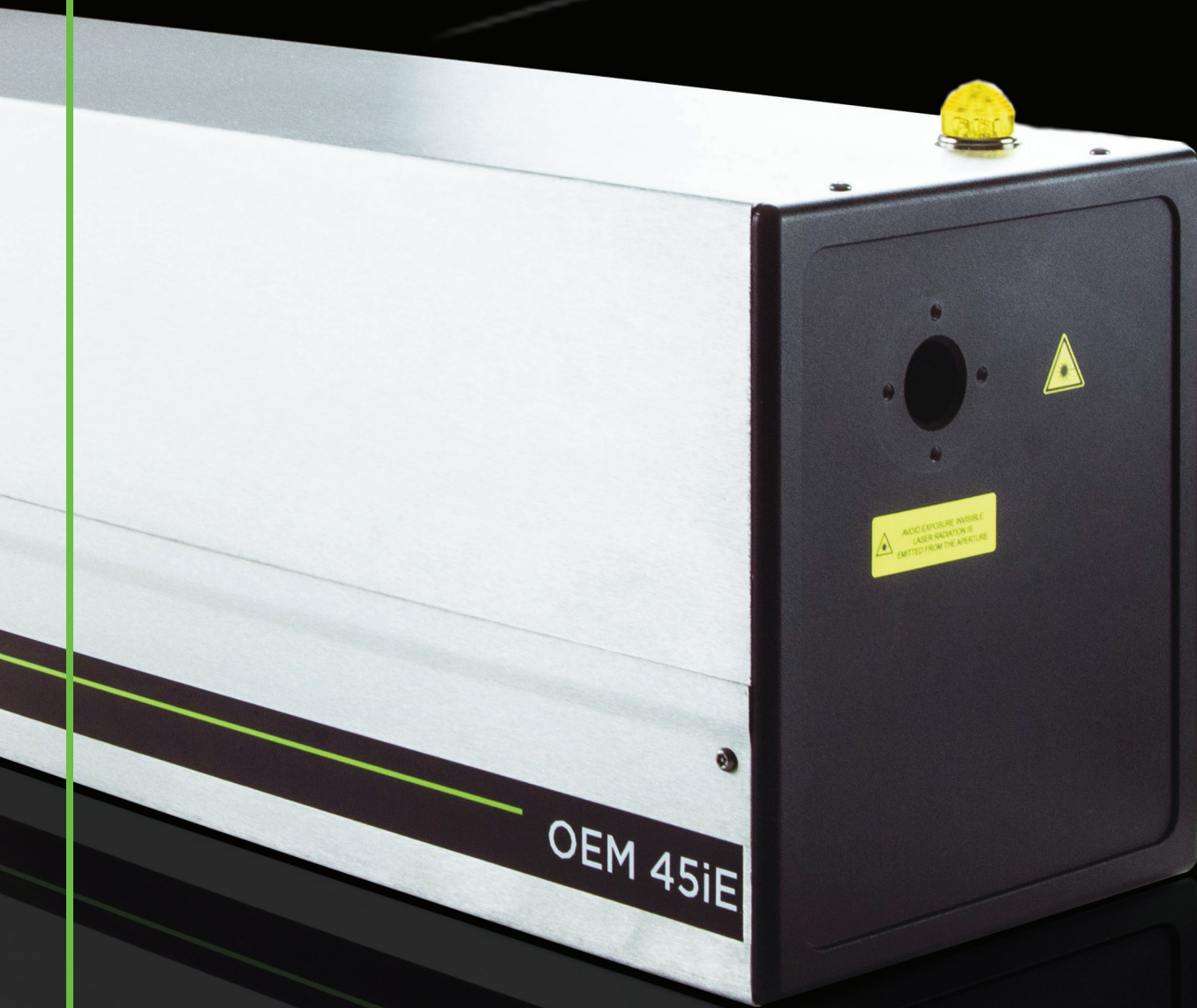


LUXINAR

INGENUITY AMPLIFIED



OEM 45iE

INDUSTRIAL

OEM 45iE

Sealed CO₂ laser source with reduced footprint

OEM 45iE – power range 25-450W

Based on the industry-proven 450W lasers already in use worldwide, the OEM 45iE sealed CO₂ laser source provides a separate RF module, ideal for installations where space is restricted. By splitting the RF from the tube assembly, the laser head can fit in tight spaces, while the RF unit can be conveniently mounted remotely. Delivering the same high speeds and enhanced productivity for industrial processing applications as the OEM 45iX, this 450W laser incorporates a proven RF-excited slab laser design with cutting-edge technologies, ensuring:

- A high-quality, round symmetrical beam for high-speed processing applications

- A short optical pulse with high peak power for improved edge quality and minimal heat-affected zone (HAZ)
- A compact design with separate in-field serviceable RF for simple integration and servicing
- A minimum shipment power 20% higher than the rated power to ensure extended operational lifetime
- A typical power stability of $\pm 1\%$ using optional power feedback control and a narrow wavelength band to ensure a high level of process repeatability
- Safety performance level D (EN13849) as specified in the latest European Standards

Specifications of OEM 45iE

	10.6	10.25
Power range	25-450W	20-405W
Minimum shipment power	540W	486W
Peak laser output power	1350W	>1020W
Duty cycle (max)	55%	55%
Wavelength	10.6 μ m	10.25 μ m
Typical stability (long term)	$< \pm 3\%$, $< \pm 5\%$ guaranteed $< \pm 1\%$, $< \pm 2\%$ guaranteed (power feedback)*	
Beam diameter (1/e ²) at laser output optic)	11.5 \pm 1mm	11 \pm 1mm
Polarisation	Linear (parallel to base), purity > 100:1	
Dimensions and weights	(LxWxH) 1228.1mmx211.4mmx274.5mm 60kg (Laser head) (LxWxH) 490mmx371mmx80mm 17kg (RF PSU)	
Supply voltage	60VDC \pm 1%	
Maximum average DC input current	142A	
Optical rise/fall time	< 60 μ s	
Pulse width	2-400 μ s	
Pulse frequency	0-100kHz	

*Power feedback turn on response is typically 300-500 milliseconds

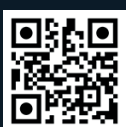
Please note that while every effort has been made to ensure that the data given in this document is accurate, due to a policy of continued improvement, the information, figures, illustrations, tables, specification and schematics contained herein are subject to change without notice.

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Class 4 Invisible laser radiation.
Avoid eye or skin exposure to direct or scattered radiation