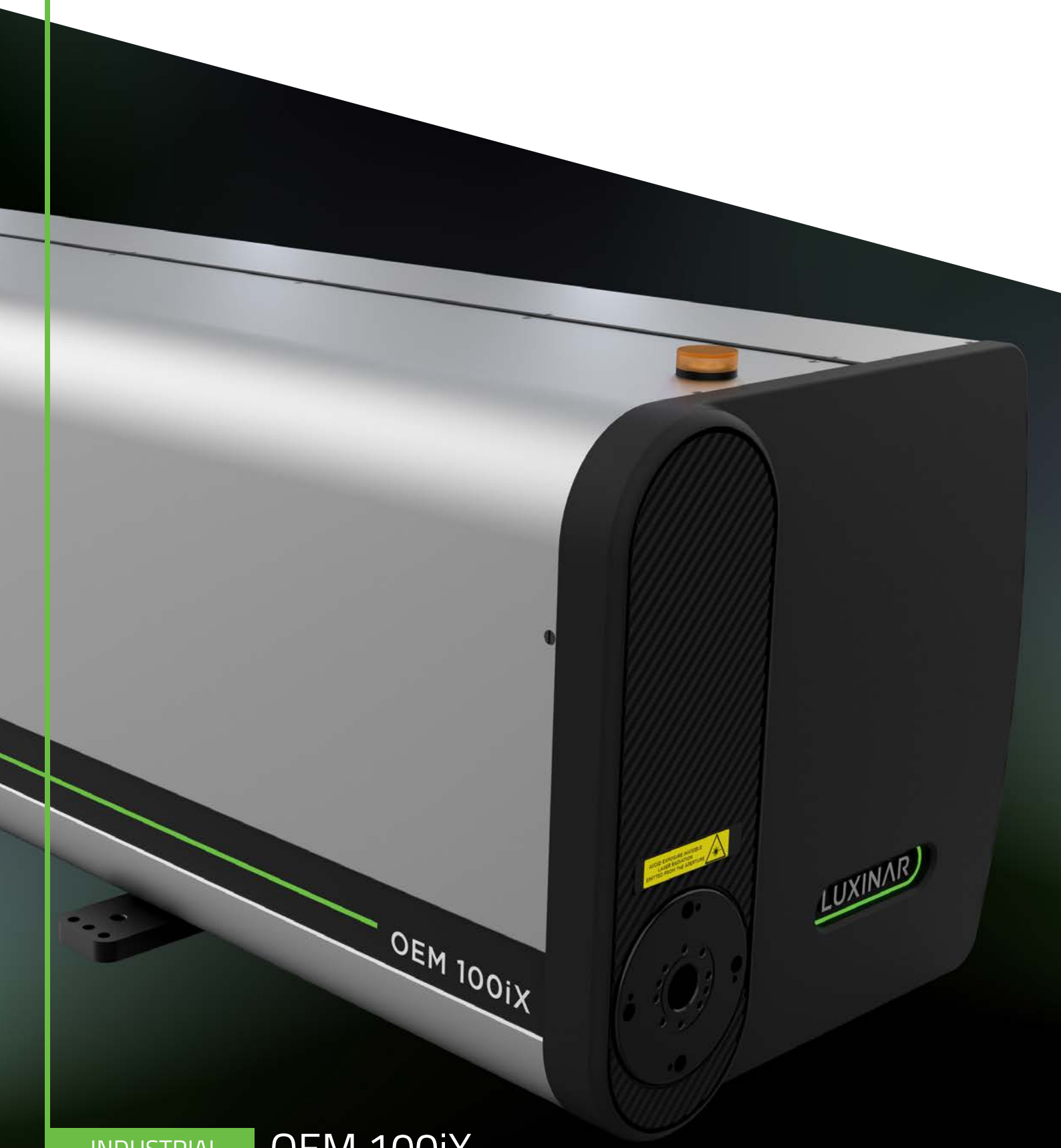
LUXINAR
INGENUITY AMPLIFIED



INDUSTRIAL

OEM 100iX

Sealed CO_2 laser source

OEM 100iX - power range 50-1000W

The OEM 100iX CO_2 sealed laser source offers higher speeds and increased productivity for industrial processing applications. This 1kW laser incorporates proven RF-excited slab laser design with the latest leading edge technologies to give:

- 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)
- An IP66-rated system capable of operating in the harshest of industrial environments
- A compact design with fully in-field serviceable RF module for simple integration and servicing
- A minimum shipment power 20% higher than rated power to ensure extended operational lifetime
- A typical power stability of ± 1% using optional power feedback control and 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 100iX

	10.6
Power range	50-1000W
Minimum shipment power	1200W
Peak laser output power	>2520W
Wavelength	10.6µm
Typical stability (long term)	< ± 3%, < ±5 % guaranteed < ± 1%, < ± 2% guaranteed (power feedback) *
Beam diameter	12 ± 1mm – (1/e²) at laser output optic
Polarisation	Linear (perpendicular to base), purity > 100:1
Weight	170kg
Voltage	50VDC ± 1%
Peak RF input current	833A
Maximum average input current	500A
Optical rise/fall time	<60µs
Pulse width	2-400µs
Pulse frequency	0-130kHz

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

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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 continuous improvement, the information, figures, illustrations, tables, specification and schematics contained herein are subject to change without notice.

Luxinar Ltd
Meadow Road
Bridgehead Business Park
Kingston upon Hull
HU13 0DG UK

Tel: +44 1482 650088
sales.uk@luxinar.com
www.luxinar.com

Registered in England: 3477444

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