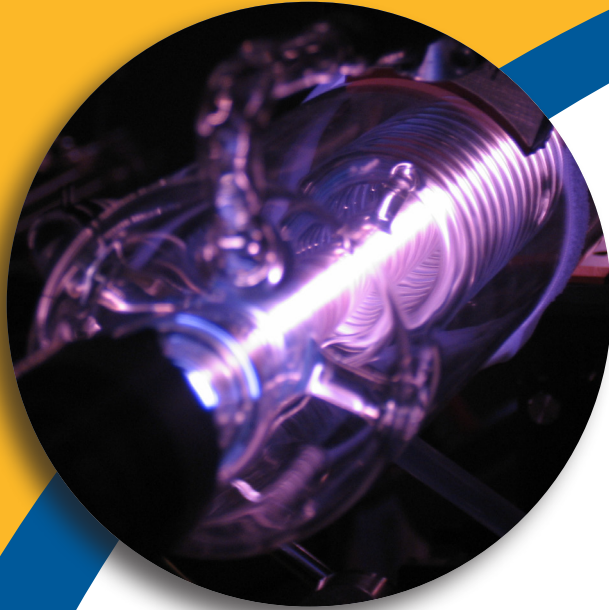




JK™ Lasers

A GSI Group Company



eCO₂ SLC Series

DC-Excited CO₂ Laser

Advantages

110W - 280W output powers

Excellent beam profile at all power levels

High stability output

10,000+ hour lifetime

Diffusion cooled design

Sealed units with no need for a gas supply

Long life, high vacuum technology

Easy integration

Laser tube only or fully cased system options

HV power supply

Alignment beam option

Applications:

Cutting:

Plastics

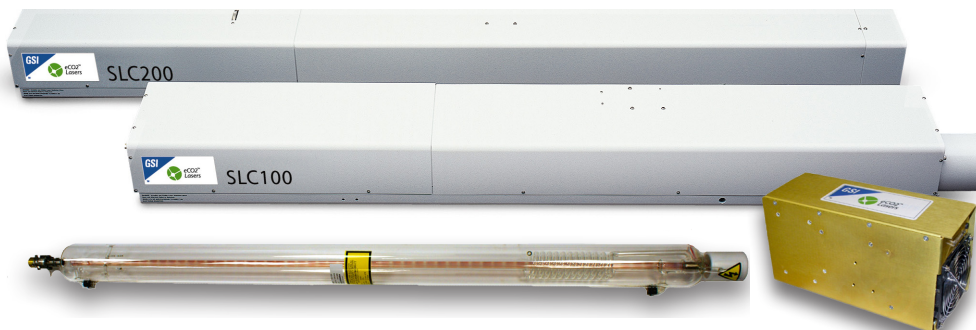
- Acrylic signs

Textiles

- Airbags

Wood

- Dieboard



Welding | Cutting | Drilling

A series of DC-excited CO₂ lasers with unparalleled beam quality, efficiency and longevity.

Laser Specifications	Laser Tube Only		Cased Laser		
Model	SLC110	SLC140	SLC100	SLC200	SLC280
Output Power (specified/max) (W)	110/120	140/150	110/120	220/240	280/300
Beam Quality (M ²)	≤1.1	≤1.1	≤1.1	≤1.1	1.1
'N' Type:	Waist located at output coupler				
Beam Waist (2w ₀) (mm)	5.8	5.9	5.8	5.8	5.8
Beam Divergence (mrad full angle)	2.6	2.5	2.6	2.6	2.6
'B' Type:	Waist located at output coupler				
Beam Waist (2w ₀) (mm)	4.8	4.8	4.8	4.8	4.8
Beam Divergence (mrad full angle)	3.1	3.1	3.1	3.1	3.1
Pointing Stability (mrad)	≤0.2	≤0.1	≤0.1	≤0.1	0.1
Typical Power Stability (± % after warm up)	4.0	4.0	4.0	5.0	5.0
Polarisation	Random/Linear ¹	Random/Linear ¹	Random/Linear ¹	Crossed	Crossed
Maximum Strike Voltage (kV)	40	40	40	40	40
Specified Operating Current / Absolute max. (mA)	32/35	32/35	32/35	32/35	32/35
Dynamic Range	8:1	6:1	100:1 ²	105:1 ²	105:1 ²
Electrical Requirements					
Single Phase 110V/60Hz (A)	6	7	6	13	14
230V/50Hz (A)	3	4	3	7	8
Cooling Requirements	Water Temperature 15 - 25°C				
Min / Max. Pressure (bar)	2/5	2/5	2/5	2/5	2/5
Cooling (l/min) (de-ionized water)	3.6	4.0	3.6	7.2	8.0
Water Cooling Capacity (W)	650	700	650	1300	1400

Cased Lasers Part Number Selection Guide

xxx = 100, 200 or 280

Part No	Base Unit	Visible Alignment Laser
SLCxxxS	□	
SLCxxxA	□	□



Laser Tube Part Number Selection Guide

	¹	²	³
SLC	140	N	P

- 1 - Power Level - 110 110W
 140 140W
- 2 - Waist Location - N at output coupler
 B 1.15m from output coupler
- 3 - Polarisation - P linearly polarised
 [Blank] randomly polarised

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