

FANUC

New LASER C3000i-C

Versatile CO₂-LASER with superior profitability.
Your best choice...



FANUC LASER C3000i-MODEL C (C3000i-C) has an excellent capability to cut the thinner sheet metal with superior beam quality and improved beam mode stabilization. LASER C3000i-C is added a new lineup of FANUC LASER C series.

LASER C3000i-C is controlled by Series 30i/31i-LB that improves high-speed oscillator control and reduces power consumption. The Power Failure Restart Function (new feature) allows faster recovery following electrical power failure.

The dimension of LASER C3000i-C is the same as LASER C2000i-C, and the cabinet position of beam output is the same as LASER C4000i-C.

DISABLE

ENABLE

-30%

Gas saving function

NOT APPLIED

APPLIED

-20%

Effect of power saving

DISABLE

10 times faster

ENABLE

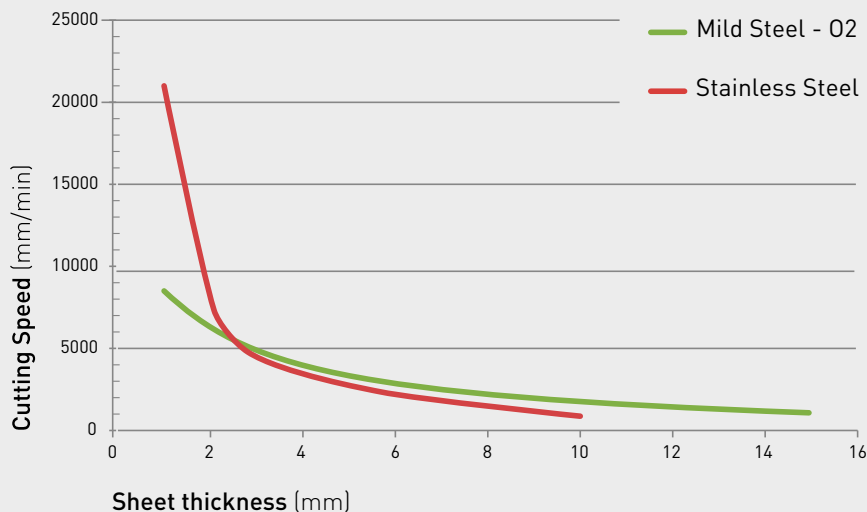
Power failure quick restart function

Features and Benefits

- Fast axial gas flow type CO₂ laser with RF discharge excitation
- Highly efficient, compact and light design
- Superior cutting performance of sheet metal by excellent beam quality and beam stability
- Versatile cutting performance from thin metal to thick metal
- Improved cutting and marking performance by high frequency pulse and minute laser output control function
- Reduction of power and gas consumption by saving function

Laser C 3000i Model C		Specifications
Items	Contents	
Principle	Fast axial gas flow type CO ₂ laser with RF discharge excitation	
Structure	Oscillator and power unit integrated	
Rated LASER output (command)	3,000 W (Continuously variable output range of 100W and more)	
Maximum LASER output	3,000 W	
Pulse peak value	3,200 W (More than 3,000W, duty is limited less than 75%)	
Output stability	±2% (For 8 hours operation at rated power with power feedback control and calibration function)	
LASER Wavelength	10.6μm	
Beam mode	Low order mode	
Beam diameter at outlet	Short optical path	Approx. φ22 mm or less
	Long optical path	Approx. φ19 mm or less
Polarization	Short optical path	Circular polarization
	Long optical path	90° linear polarization
Angle of beam divergence	2 mrad or less (Full angle)	
Frequency command	5 to 10,000 Hz	
Duty command	0 to 100%	
LASER Gas	Composition	Premixed gas of CO ₂ : He : N ₂ (Volume ratio 5 : 65 : 35) Composition accuracy: ±5% and less for each composition
	Consumption rate	Approx. 10 liters/ hour
Cooling Water	Water flow rate	120 liters/min or more
	Water temperature	20°C to 30°C / ±2°C (For actual LASER power stability of ±2%)
	Recommended cooling capacity	33 kW or more
Power line	AC 200V +10%, -15% 50/60 Hz±1Hz AC 220V +10%, -15% 60 Hz±1Hz AC 230V + 5%, -10% 60 Hz±1Hz (except CE)	
Requirement input power	44kVA	
Mass	About 750 kg	

C 3000i-C Cutting Speeds*



Average cutting speeds! Cutting speeds may vary depending on the machine design and process settings.
Conditional Information! *estimated cutting data



**RELIABLE, PREDICTABLE,
EASY TO REPAIR!**

**Push
the
button**

