

BIMO-FSC3

High-Performance Flat Sheet and Bevel Cutting Heads

BIMO-FSC3 series products enable high-speed fiber laser cutting of sheet metals – such as mild steel, stainless steel, and aluminum – at thicknesses up to 50 mm, while delivering high uptime and reliability in even the harshest industrial environments. Their optical design, which is unique to Coherent, delivers a large focus and zoom range for maximum operational flexibility and outstanding cutting performance under any conditions. A variety of BIMO-FSC3 models are available, including ones compatible with ultra high-power (up to 30 kW CW) lasers and ring-mode lasers.



FEATURES

- Integrated height sensing handles work piece dimensional variations
- Fastest available independent adjustment of magnification and focal-plane position
- IP65 rated for operation in harsh environments.
- Compatible with ring-mode fiber lasers
- Ultra high-power operation

APPLICATIONS

- Automotive production
- White goods manufacturing
- Energy infrastructure construction and repair
- Shipbuilding

Specifications	BIMO-FSC3	BIMO-FSC3-L	BIMO-FSC3-Z	BIMO-FSC3-Z-HP
Laser Power ¹ (kW)	up to 20	up to 20	up to 12	up to 30
Typical M-Range	1.1 to 4.2	1.77 to 4.2	2.0	2.0
Typical Z-Range (mm)	+15 to -30	+15 to -30	+15 to -30	+25 to -50
NA Compatibility	0.125	0.18	0.17	0.15
Interfaces	LLK-Q (QBH); HY-16 (HLC16); LLK-D (QD) ²	LLK-Q (QBH); HY-16 (HLC16); LLK-D (QD) ²	LLK-Q (QBH)	LLK-Q (QBH); HY-16 (HLC16)
Max. Permissible Cutting Gas Pressure (MPa)	2.5	2.5	2.5	2.5
Options Laser				
Laser Options	Full fieldbus integration: Profinet, EtherCAT and Ethernet IP			
Features				
Design	Patented MZ-Technology	Patented MZ-Technology optimized for beam shaping lasers	Reliable Z-Technology	Reliable Z-Technology that can handle highest powers, full serviceability of all optical components
Degree of Protection	IP65 protected, contamination proof opto mechanical design			
Max. Bevel Cutting Angle (°)	45			40

Notes:

1. Depending on options.
2. Prior technical assessment required.

