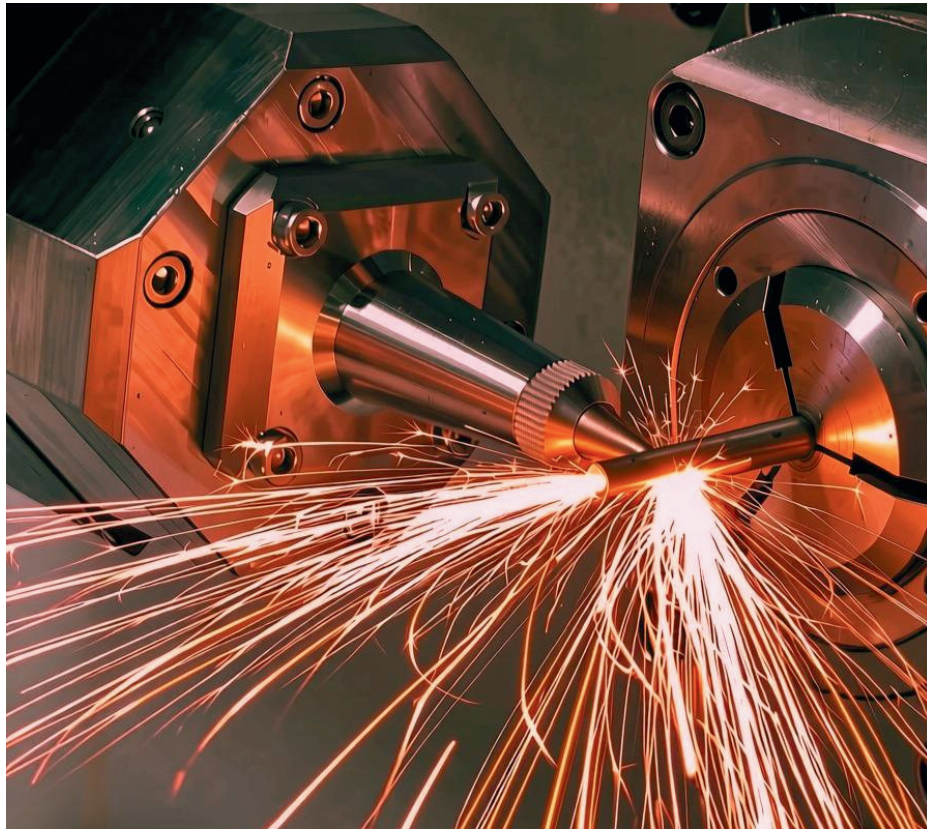


Marubeni Citizen-Cincom Inc.

PC-L-G3

LASER SYSTEM

PROGRAMMABLE. COLLIMATOR. LASER.



Key Features

- Redesigned Programable Collimator
- Liquid Tight Optical Train
- New Cover Lens Cartridge Design
- Doublet Focal Lens Setup
- In Field replaceable cables
- MCC Control Software
- Programable Multi Gas Supply
- Compact Design
- PLC Based Controller

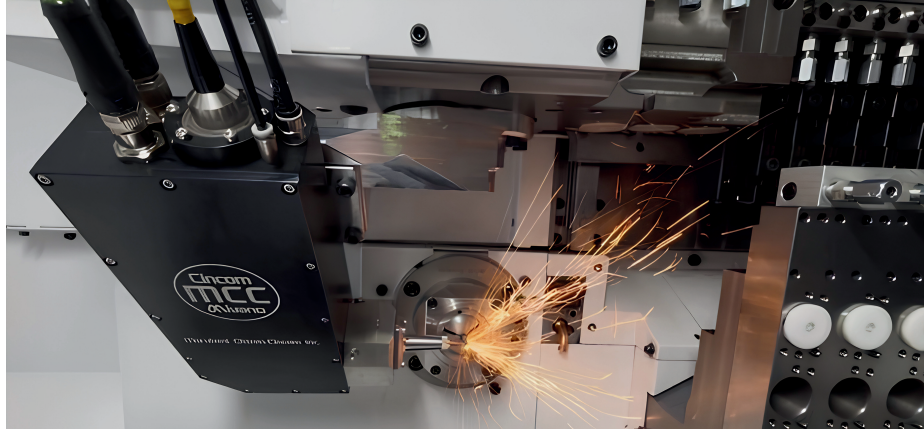
FEATURES • BENEFITS • SPECIFICATIONS

Laser Specifications And Benefits

- IPG Photonics-leading provider of Fiber Lasers in the world
- 14- and 50-Micron delivery fiber (Determined by Power unit choice)
- Various output power options available, up to 4.5kw Pulse
- Internal Pulse Generator with endless parameter possibilities
- Laser is 100% supported in the USA
- Air Cooled

PCL-G3 Head Specifications

- CCD Integrated camera for optical viewing and alignment
- Fine X,Y beam adjustment for beam alignment to nozzle
- 75mm focal length
- Head is 100% made and supported in USA
- Average spot size of 15 microns
- Newly redesigned programable collimator
- Head assembly has constant positive pressure purge, with liquid tight optical train.



NEXT GENERATION OF LASER PROCESSING:

The next-generation programmable collimator combines enhanced durability with the same proven programming approach familiar to existing users. By retaining the positive-pressure purge system and introducing a fully watertight optical train, the design offers superior protection of critical optical components and increased long-term reliability.

At the core of the new design is a carefully engineered doublet-focal-lens optical system. This innovation produces a smaller, higher-quality beam, and laser spot than previous Generation 1 and Generation 2 heads, resulting in improved process capability, greater precision, and performance levels that were previously unattainable