American Laser Enterprises, LLC Innovation in Manufacturing through Laser Technology

ALE 030096

Production Proven 24/7 CO₂ Laser Cutting Head

Key Features

- CO₂ laser power: up to 4 kW
- Clear aperture: 19 mm
- Crash protector
- Cartridge style lens holder
- X-Y centering
- Gas manifold with 10 mm fine focus adjustment
- Compact and lightweight modular design
- Compatible with a variety of beam expanders
- Upgradable to be used with fiber lasers

Typical Applications

Automotive	Aerospace	Electronics
Medical Device	Art&Crafts	Fabrics
Engineering	Plastics	and many more

American Laser Enterprises, LLC has decades of combined experience in optical, electrical, and mechanical design of laser applications and systems. We pride ourselves on the ability to provide our clients with specialized services from application engineering and system prototyping to large quantity component production orders.

We offer a family of laser cutting heads designed to work with CO₂, Nd:YAG, and Fiber lasers. It has served a variety of industries, including automotive, aerospace, and defense. Our cutting heads come in various configurations, are versatile and fully customizable to your application.





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This high-power CO_2 cutting head provides a versatile solution to laser cutting of a variety of materials including metals, wood, plastics, or fabric. The cartridge style optics holders allow for an in-the-field service or replacement with standard off-the-shelf optics. Due to a modular design, this processing head is customizable to many cutting applications. A mechanical fuse device prevents damage in the event of a crash. An adjustable vernier gas manifold with a precision scale provides repeatable focus settings and immediate focal changes. Requiring minimal maintenance, this reliable cutting head offers precision, consistency, high repeatability and productivity at a low price.

Standard Features

LASER ENTERPRISES



