American Laser Enterprises, LLC Innovation in Manufacturing through Laser Technology

ALE 030100

Production Proven 24/7 Fiber Laser Cutting Head

Key Features

- Fiber laser: up to 4 kW with NA \leq 0.15
- Fiber receiver for all major laser OEMs
- Computer-controlled kerf width $\geq 10 \ \mu m$
- Cutting of various materials with programmable focus
- Temperature sensors with laser shut-off option
- Capacitive surface following
- Crash protection
- High quality optics protected with a cover glass
- Compact with lightweight modular design

Typical Applications

Automotive	Aerospace	Electronics
Medical Device	Art&Crafts	Manufacturing
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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Specifications

╘	Dimensions * (WxDxH)	10.8 x 2.15 x 6.25 (in) 274 x 80 x 159 (mm)
\square	Weight	~ 5.5 lb (2.5 kg)
∟	Laser Power	up to 4kW
╘	Laser Wavelength	650 - 1100 nm
\square	Focal Distance	75 to 200 mm
∟	Clear Aperture	20 mm
╘	Nozzle size	0.8 to 2 mm



* outside dimensions depend on a configuration and are subject to change

ALE 030100, an intelligent and intuitive to use fiber laser cutting head was developed for high performance cutting of a wide range of materials with a help of a programmable computer-controlled focus adjustment. Like all ALE laser processing heads, it is compatible with most OEM lasers. To prevent down-time and expensive maintenance, this processing head is equipped with temperature sensors that can shut the laser off in case of the optics damage. A pressure sensor allows a better control over the cutting process. Due to a modular design, this cutting head is highly customizable and can be trimmed to your needs! Requiring minimal maintenance and operator input, it offers precision, consistency, high repeatability and productivity at a competitive price.

Standard Features



Configuration shown is standard but can be customized per customer's request. Please contact us for details.





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ALE 071060 Height Sensor Controller Specifications



ALE 080204 Auto-focusing Collimator Specifications

The collimator with a programmable auto-focus feature enables a dynamic spot-size control at the work-piece. This unit is based on a piezo motion system and comes with a Servo Controller.









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