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AIR LIQUIDE™

BIFOCAL™

Quality and productivity for laser cutting machines

www.airliquide.ca

"The material on the Mitsubishi 3500W laser machine is 3/8" stainless steel that we clean cut. We are looking to realize significant savings on gas use and cut time on jobs like this when we install the ***BIFOCAL*** lens," said Carl Anderson, General partner, Serra Laser Center, Anaheim, CA.

BIFOCAL works on all types of materials, and features particularly noticeable productivity increase results on aluminum and stainless steel with nitrogen assist gas and non-metallic materials such as wood.

BIFOCAL laser technology increases performance for optimal productivity and quality while minimizing production costs.

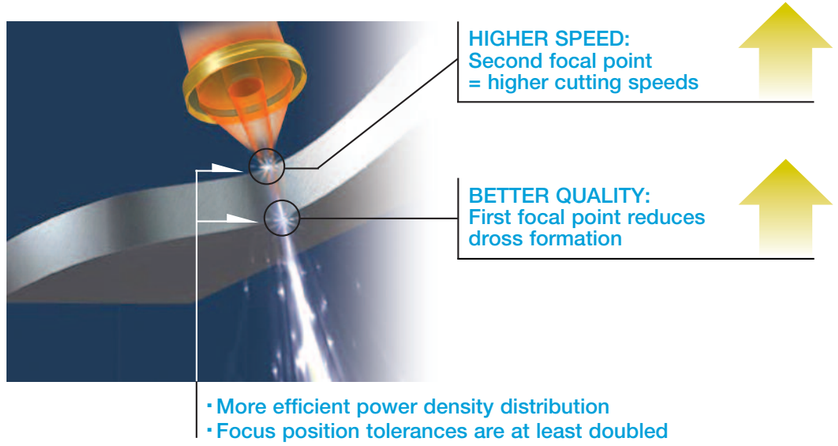
BIFOCAL Laser Cutting Technology

With Air Liquide's innovative design, laser operators are able to cut sheets, plates and tubes with:

- Increased speed
- More efficient assist gas usage
- Expanded cutting capability

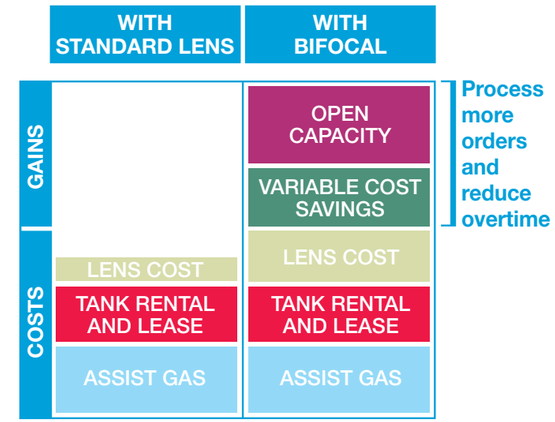
BIFOCAL lenses focus the laser beam into two focal points instead of one

- A first focal point generates high heat density near the bottom of the work piece to prevent dross formation
- A second focal point generates high heat density near the top surface of the work piece to maintain high cutting speed



Benefits

- 10% to 50% improvement in production cutting speed
- 10% to 20% increase in maximum thickness cutting capability
- Reduction in set-up downtime
- Optimization of set-up and cutting performance
- Production launch assistance and training
- Annual laser audit with Digital Beam Mode Analysis
- No retrofit required
- Bifocal is user-friendly and field proven with all laser system makes and models



LASAL™

Air Liquide can provide you with optimized and innovative gas installations and gas equipment to meet all your flowrate and pressure needs for CO_2 lasing gas:

- Lasal 1, 2, 4 (N_2, CO_2, He, laser grade) or one of the lasing mixes from the Lasal range.

Recommanded cutting gas:

- Carbon steel: Lasal 2003
- Stainless steel aluminum: Lasal 2001
- Beam purging: Floxal™ or Nitrogen