

Choose Synrad

Synrad is one of the most respected names in the world of industrial lasers. Since the introduction of the first sealed all-metal tube, RF excited CO₂ laser in 1984, Synrad has been known for innovation, quality, and industry best global service. We are CO₂ laser experts; we understand laser parameters and use our Applications Labs to determine their specific impact on applications and materials. We are committed to innovation and customer success; the laser we recommend for your specific application will deliver the results customers are seeking.



Reliable

More than 250,000 Synrad lasers have been shipped since 1984, many operate each day in the most challenging industrial environments. From high humidity to poor cleanliness to fluctuating hot and cold conditions, Synrad lasers continue to perform in the real world with minimal interruption year after year. We test our lasers with some of the most sophisticated test and measurement equipment available - vibration, drop/shock, heat cycling, humidity, power stability, and more - to meet or exceed global industry standards.



Precise

We focus on meeting the needs of our customers by understanding their specific application and delivering a reliable laser that generates a highly refined beam with very precise performance characteristics. From the economical low-power 48 and v Series, to the precise, compact mid-power ti Series, and the innovative p Series with exceptional peak pulse energies, Synrad delivers unmatched performance and value.



Fast

Customers choose Synrad because we quickly deliver lasting solutions to their process challenges. We are quick to respond to our customers before, during, and after installation to ensure optimal performance of both our lasers and our team. Original equipment manufacturers (OEM) and systems integrators worldwide rely on Synrad to deliver on-target laser solutions that are reliable, scalable, and consistent to ensure their customers' success.

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High Performance CO₂ Lasers For Precision Converting Systems

SYNRAD

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A broad range of high performance CO₂ laser sources and perfectly matched laser processing sub-systems for your application.

Reliable...Precise...Fast

The converting process includes precision cutting, drilling, and perforating on a broad range of materials at very high speeds. Synrad solves these challenges with high performance CO₂ lasers available in a wide range of output power levels, multiple wavelengths, and continuous or pulsed wave options engineered for specific converting applications. All Synrad lasers feature the time-tested sealed metal tube design providing reliable operation year after year, saving significant time and resources.

- **Reduced Downtime Associated With Set-Up and Change Over** - laser converting systems do not require extensive retooling or set-up, typically a simple software program change is all that is required. Laser converting systems never come in contact with the target material, so the painstaking process of adjusting cutting pressures associated with mechanical systems are eliminated.
- **Reduced Operating Costs** - there are no cutting blades to replace, or shelves filled with expensive die boards, and test stock is minimized. Laser converting systems are self-contained and digitally controlled for consistent results.
- **Reduce Maintenance Costs** - with no mechanical parts to wear, or blades to sharpen, the cost to maintain a laser converting system is minimal. Synrad i401, p250, and p400 lasers include web-based performance monitoring to manage laser operation and ensure optimal performance avoiding costly downtime associated with emergency repairs.

Synrad's wide range of high performance CO₂ lasers is a major plus for original equipment manufacturers (OEMs) and system integrators. Consistency across Synrad's laser families makes integration and system upgrades easier, and engineers and technicians can rely on operational similarities and the same high quality laser beam across all models.

All Synrad lasers are designed, engineered, and manufactured in one facility located in Washington state. Having one centralized operation enables our entire team to work closely with one another. Design engineers walk onto the manufacturing floor to work alongside production teams to quickly solve challenges. This unique ability is invaluable for our customers; questions are answered quickly and challenges are met with hands-on tested solutions.

Laser Processing Sub-systems, The Novanta Advantage

Synrad is part of the Novanta family of companies, a leading global supplier of core technology solutions that give OEMs a competitive advantage. Working with partner companies that specialize in photonics and precision motion we can engineer sub-systems that deliver extreme precision and reliable performance, all tailored to our customer's applications. We share a common commitment - innovation and customer success.



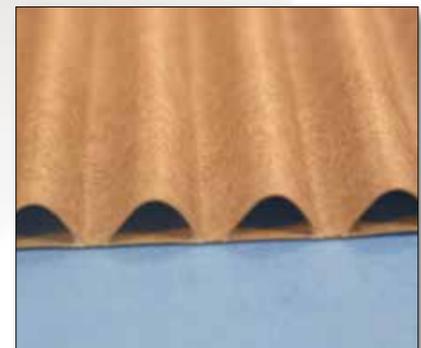
The compact Synrad i401 is the most energy efficient 400W laser available and engineered for high-speed converting processes. Perfectly matched with a Cambridge Technology's Lighting II or Synrad Flyer 3D marking head for a powerful laser converting sub-system.



Label Cutting - requires a laser with good power density stability to control cutting the top layer, leaving the carrier intact. Recommended lasers include the **i Series, f Series, and p Series.**



Easy-Open Scoring - requires a laser with superior beam quality for maximum control to prevent cut-through. Recommended lasers include the **ti Series, i Series, f Series, and p Series.**



Corrugated Cutting - laser cutting occurs without the typical pressure marks associated with mechanical cutting processes. Recommended lasers include the **ti Series, f Series, and i Series.**



Thin Film - requires a laser with high peak pulse power to avoid melt lips and charring with higher continuous power for faster throughput speed. Recommended lasers include the **i Series, f Series, and p Series.**



Perforating - requires a laser with high peak pulse power and excellent beam quality for crisp, symmetrical perforations. Recommended lasers include the **p Series.**



Precision Cutting - requires a laser with higher continuous power and fast rise/fall times to avoid discoloration and charring. Recommended lasers include the **p Series, i Series, and ti Series.**