THE ARCOR WAY:
A PASSION FOR PRECISION
Our entire team is ready to take on your toughest challenges. When you work with our A-Team leaders, you can feel confident that From engineers to project managers to customer service, ARCOR is the perfect extension of your team. Our collaborative approach is just one of the many ways we distinguish ourselves as the leader in laser processing.
MEET YOUR A-TEAM

AT ARCOR our vision is to be our customers’ #1, go-to expert and manufacturing resource for advanced, precision, laser cutting, welding, and drilling services, and integrated systems solutions.

To do that, we’ve invested in state-of-the-art tools, technologies and manufacturing infrastructure. We have also perfected the methodologies that allow us to meet some of the most precision specifications across many industries. But we also know that our people are a critical component of our success. So we encourage communication, collaboration, and creativity on our teams and with our clients. While we value proven methodologies, we also view collaboration as a strong driver of innovation.

We know that we can always make our work and our processes better, faster, and more efficient. So our teams are empowered and encouraged to find new ways to make our products -- and yours -- more competitive. This is just one of the ways ARCOR is redefining the concept of precision, not just as a measure of accuracy, but as a predictor of success.

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Why do we think precision matters so much? Because at ARCOR, it means so more than accuracy. In every facet of our business, from our engineering, to our technologies, to the way we work with customers, we challenge ourselves to redefine precision as perfection in everything we do.
ARCOR is taking the lead in redefining what precision is, what it takes to get there, and what our customers can expect from us. Our experience tells us that there are six core elements that are critical to laser manufacturing success. These Six Elements of ARCOR Precision equate to our definition of quality, and what our customers can expect from ARCOR Laser Services.

Precision: Accuracy according to the required engineering specifications

Performance: How the material performs against specifications and expectations

Producibility: Can the work be produced according to specifications and deliver the desired result?

Reproducibility: Can the work be reproduced quickly and efficiently according to specifications?

Repeatability: Can the result be repeated with consistent results?

Required Certifications: Are the required certifications in place for quality assurance and safety?

AT ARCOR, we believe that quality and precision don’t exist unless all of these elements exist together.
We have a relentless drive to innovate laser technologies that build, solve, enhance and improve the world. We make things that very few in the world can, but everyone needs. This is a source of pride for our employees and our customers. Innovating, discovering and improving is part of what we do at ARCOR every day.
Over the past year, ARCOR has taken the lead to integrate the physical and engineering worlds. We have become highly adaptive to our customers’ needs, to the point where we reconfigure our machines to be even more efficient. Even tiny improvements are substantial and can boost productivity to save time, energy and budget. We’ve done this by asking all our teams to observe four simple rules for innovation:

Rule #1: Ask Questions
We know that when you ask the right questions, it sets the stage for smart, unexpected solutions. At ARCOR, we encourage all our people -- from engineers to administrators and customer service -- to understand what our customers are trying to achieve. This is what allows us to make great things happen.

Rule #2 Collaborate
Collaboration with our team members and our customers yields amazing results. We work with large corporations as well as start-ups to deliver creative solutions that make substantive improvements in producibility, efficiency and time to market.

Rule #3: Bring Your A Game.
We’re fun to work with, but we take our work very seriously. We’re constantly investing in the best people, the best technologies, in an environment of high expectations. At ARCOR we expect everyone to bring their best to every project, every time.

Rule #4 Repeat
Our drive to innovate is part of our culture. It’s also part of our success and our client’s success. That’s why ARCOR has grown substantially in the last 5 years. If you’re looking for the next great idea in laser engineering and manufacturing, ARCOR’s innovators have the right ideas.
ARCOR specializes in laser materials processing services, system integration and the development of intellectual property opportunities. We offer contract manufacturing services from original concept through tool design and fabrication, from laser welding, drilling, cutting and marking to fully integrated turnkey systems. Our team of laser engineers has solved laser challenges within various industries, allowing us to produce complete parts, from prototypes to large production runs. In addition to our competitive pricing, we are also dedicated to meeting JIT delivery schedules to the most demanding industries.

Our comprehensive suite of laser services includes:

**Precision laser welding**
Laser welding offers significant advantages over traditional welding techniques, including more consistent, reliable joints, small affected heat zone (HAZ) and deep penetration of precise, narrow welds. ARCOR offers both conventional beam and fiber optic cable delivery. The choice of laser is based on material type and thickness, cycle time and weld penetration requirements.
A COMPREHENSIVE SUITE OF SERVICES

Precision Laser Cutting
Our laser cutting capabilities are also valued in industries where precision and quality are essential. Laser cutting is faster, more flexible and more cost effective than traditional cutting, with far greater precision and better finished results. Lasers can cut most metals, including steel, stainless steel, super alloys, cooper, aluminum and brass, as well as many non-metallic materials like ceramic, quartz, plastic, wood and certain composites down to .001 kerf.

Precision Laser Drilling
Laser drilling is a cost-saving and highly precise alternative to mechanical drilling, and is vary adaptable for all types of holes, including very small holes. Laser drilling provides a repeatable, accurate hole that can be customized for all types of manufacturing industries, and offers consistency for projects requiring tight tolerance for high depth-to-diameter ratios.

Precision Laser Marking
Our laser marking services bring added value and high precision to support our welding, cutting and drilling capabilities, particularly in industries such as the medical, firearms and aerospace categories, where precision, reproducibility and repeatability are essential. Our capabilities include light or deep marking, customized to meet the need of each application.

Precision Tube Cutting
Our fully automated precision tube cutting system is the solution for many types of tube materials. Designed to provide the high precision and repeatability required for medical instruments, such as stents, our capabilities can also be combined with other critical welding, drilling, and marking processes, quickly and efficiently.

Contract Manufacturing
Our commitment to high volume, high precision contract manufacturing is reflected in our capabilities and infrastructure. These include over 30 lasers on site in our 14,000 square foot, state-of-the-art manufacturing facility. Our power capabilities range from 10 watts to 4000 watts, and our weld capacity ranges from micro welding to parts up to 3 cube.

Turnkey Systems Integration
We provide customer laser system integration for a variety of different industries. We design and build turnkey laser solutions to meet specific specifications, with full consulting, training and technical support as needed. Our many years of contract manufacturing experience helps you to select the right laser and machine tool to suit your application, along with training, fixturing, programming and automation support.
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ARCOR Laser and Marubeni Citizen- Cincomm have joined forces to create a turnkey solution for stainless steel tube manufacturing.

A PASSION FOR PERFECTION

ARCOR is actively engaged in the development of industry-leading technologies that integrate and streamline manufacturing processes while enhancing precision and efficiency. We recently announced our newest innovation, the Citizen L20 Swiss Machining Center with integrated cutting system, which offers maximum precision for stainless steel tube processing.

See it in action:
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INDUSTRY EXPERIENCE

Our commitment to the Six Elements of ARCOR Precision allows us to develop laser solutions that meet the most stringent criteria of precision, performance, producibility, reproducibility, and repeatability. All with the right certifications to ensure product safety and efficacy.
Aerospace:
Specialized materials and alloys for long-lasting parts that are both efficient and fit for function.

Alternative Energy:
Specialized laser services for battery weldments, fuel cell components and assemblies for wind generation.

Transportation:
High-efficiency solutions for maximum efficiency in high-volume runs.

Semiconductors:
From deep welds to tight dimensional requirements.

Firearms:
Fully licensed by the FFL for guns, magazines and shotguns

Medical Equipment:
Tooling and automation expertise with a range of 50-400w laser capacity.

Power Generation:
Specializing in high-temperature alloy requirements, including Inconel, titanium, waspaloy and stainless steel.

Sensors:
Laser hermetic sealing for protection in hazardous environments.

Military:
Specialized expertise for aircraft, military vehicles, weaponry as well as electronic systems.

“ARCOR was incredibly helpful in launching our new product both locally and internationally. Their automation team brought us expertise as well as the ability to get to market faster and more cost-efficiently. The experts at ARCOR are an amazing resource.”
— Joe S., Alternative Energy Company
We want to be your go-to resource of all your laser questions, challenges and quandaries. And, not just when the project is ready to go. Our R&D experts are ready to respond to your challenges and find the best possible laser solution for your application. Call us directly; check out our website; or join our us online. When you AskARCOR, you find out what’s possible.
DO YOU HAVE A CHALLENGE? GREAT, WE LOVE A CHALLENGE!

The experts at ARCOR Laser are accessible in a variety of forums, depending on where you are with your project. Connect with us and find out more about how high efficiency laser services can improve your next project.

http://www.arcorlaser.com/ask-arcor/

http://plus.google.com/

http://www.linkedin.com/
At ARCOR, every day, we invent new solutions, recommend new materials, specify unique tooling and custom software in order to create more precise, more efficient, and more competitive solutions for our customers.

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