

LABORATORY CAPABILITIES

Forest City Gear is extraordinarily well known for maintaining the latest technology in the gear industry. We not only have state of the art gear hobbing, gear shaping and gear grinding equipment, but analytical gear inspection, equipment as well. Our technology and our highly skilled personnel are some of the reasons other gear companies come to Forest City Gear to help them solve their machining and inspection problems. We pride ourselves in serving all of our customers' needs, including those in the gear industry.

As we move forward, we will continue to strive to be the leader in the gear industry, while providing our customers with unparalleled quality, production and delivery. Excellence without Exception is not merely a phrase on a banner hanging in our shop. It is a promise that Forest City Gear makes to all our customers every day.



FOREST CITY GEAR



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Forest City Gear is now embarked on our second fifty years. Our company was founded in 1955 by Evelyn & Stetler Young in Rockford, Illinois. A heritage from my parents has been continuous investing in equipment, facility and personnel. This legacy is now a governing strategy designed to keep us the leading gear manufacturer in the world in the size and types of gears we make. Applying an ever-expanding base of knowledge to every gear we produce is the cornerstone of our success. Producing good gears isn't good enough at Forest City Gear. We're not satisfied until we know we've made the best gear possible. It all meshes with a very simple, yet demanding mission statement: Excellence Without Exception.

Every production process we perform turns on this principle, and is backed by uncompromised auditing, testing, quality review and packaging...from initial blanks and tools to production and final inspection. We manufacture gears for diverse industries and a wide range of product applications throughout the world. Our gears are in telescopes and tractors, artificial elbows and aircraft, military lasers and medical examining tables, printers and plotters, power tools and dental drills, as well as the space station and Martian Rover vehicles to name just a few. We even make gears for many of our competitors. When it comes to fine and medium pitch custom gears, the world comes to Forest City Gear for the best. Sure, we are passionate about gear manufacturing, leading edge technology and customer satisfaction. That's our blueprint for success every day for every order with every gear.

Frederic M. Young

AEROSPACE

Whenever extreme accuracy is required, such as for the main fuel controls, engine oil pumps, and weapons targeting pod in the latest fighter jets, the gear world turns to FCG for our renowned reliability and consistency. Even our competitors know where to turn when they struggle.

If the lower fringes of space on Boeing and Airbus are not high enough, you will find our gears in Space Station components where critical performance is demanded from winches to radio antenna drives.



Mars rover

Following the success of the rovers Spirit and Opportunity on Mars, utilizing our gears in the wheel drives, we are producing gears for all the actuators on the next generation Martian explorer vehicles. This is in no small part due to our huge investment in analytical gear inspection equipment in possibly the best-equipped gear laboratory in the United States.

TRANSPORTATION

Whether it be locomotives, diesel fuel pumps for trucks, fly wheels, racing motorcycles, Nascar or Indy racing vehicles, brush hogs, or special accuracy rack and pinion mechanical and electrical drives—



Winch gears for BMW Oracle Racing Yacht

they roll better and faster with Forest City Gear teeth sinking into the product. Controlling involutes and index variation the FCG-way minimizes transmission errors like no other gear job shop can, and maximizes your strength and staying power for those extra laps!

MEDICAL & RESEARCH INSTRUMENTATION

With our ISO 13495 certificate in hand, we may be one of the few U.S. gear companies registered for medical gear work. When patients enter hospitals or clinics for diagnosis and treatment, they anxiously expect accurate diagnosis completed expediently and quietly to soothe their anxiety. The recipe for this conclusion is the super accurate gears manufactured with uncompromising care and attention. You will find Forest City Gear product in blood pumps, kidney dialysis equipment, and CAT scan machines, as well as artificial elbows. In the unlucky circumstance of a broken bone, it is quite possible that a titanium bone screw will be inserted with a Forest City Gear produced spline driver. Forest City Gear parts are also found in portable ventilators and other medical devices that demand smooth operation. Furthermore, your visit to Forest City Gear will treat you to near hospital level cleanliness—unexpected in a manufacturing facility.

MILITARY & DEFENSE



US Marine Corps M777 155mm howitzer

Defenders of American liberty, our military deserve the most accurate and reliable weaponry available to any fighting force. You will find our gears in the laser beam sighting mechanism for the AIA Abrams tank and in the latest military howitzers. Our soldiers, sailors, and pilots must succeed in neutralizing the enemy without error. It is our objective to provide excellent gears for missile guidance systems, the control instruments, and other sophisticated devices that aid in preserving our freedom.

INDUSTRIAL

Our industrial gears are found in a myriad of products from welding equipment drives to laboratory instruments and telescopes. Operating under the Kanban system, we accept blanket orders and release gears per your schedule to help control your inventory pricing and remain competitive, all while producing the most accurate gears available. When you use Forest City Gear, you can rest assured your product will perform better distinguishing yourselves from your competitors. Remember, we supply gears for about 100 other gear producers—one of the highest testimonials to our capabilities and quality.

Our industrial gears are able to withstand whatever stressors your product demands. We have industrial parts in motor drives, overhead door openers, power drills, pumps, machinery, welding equipment, and the “Jaws of Life.”

RECREATIONAL

Whatever recreational equipment you produce—if it needs high quality gears, Forest City Gear can help. From paintball equipment to fishing...our gears will not interrupt your customers' pastime.



Special version of ABU Garcia reel made by Fishy Business

One of the most demanding products for which we deliver gears are bait casting reels. In the sensitive hands of expert bass fisherman, compromised quality is detectable.