



Committed to quality

From a torch service and repair centre to developing its own branded product lines, we chart QCC's growth in the steel industry

The steel and steel scrap industries have a long history in America's rust belt, and anywhere steel goes, oxy-fuel cutting follows. The lifeblood of the rust belt industry is oxy-fuel equipment. From the torches that treat the brand-new steel rolling off the mill to the torches that process steel equipment that's reached the end of its lifespan in a scrap yard, every aspect of steel's lifecycle is dependent on gas safety and regulation. Any heavy industry dealing with steel is also dealing with oxy-fuel equipment, and steel producing regions like the one anchored by Cleveland, Ohio, dove headfirst into production and innovation centred around heavy industry. This rust-belt spirit was on display in 1974 when Quality Repair Company was founded in Mentor, Ohio as a torch and gas equipment repair shop.

Where it all began

Quality Repair Company started out as a torch service and repair centre for local steel mills. By the late 1970s, Quality was servicing over 2000 torches per month from all the top name manufacturers.

The company not only repaired equipment for steel mills, but also scrap yards, shipyards, and all the other heavy industry manufacturers in the area. Any time a torch or regulator was taken out of service for operational or safety reasons, regardless of brand or model, Quality Repair refurbished the equipment and got it back into service quickly and correctly.

Quality Repair Company became Quality Components Company (QCC) in 1999. Along with a name change, the company's focus began to shift from repairing torches and gas equipment of any brand or model to the creation of a new equipment brand. QCC used its decades of experience navigating the ins and outs of every major type of equipment to create product lines that focused on quality, durability

and operator safety.

QCC controls the quality of its equipment by sourcing domestic raw materials and running the entire manufacturing process in-house. Every component, whether it's custom manufacturing for OEM customers or a component for QCC branded product lines is produced in the on-site machine shop in Mentor, Ohio. Global commerce patterns may shift constantly, but allowing a shifting market trend to affect customer





service and delivery just is not acceptable to the company. By reducing offshore sourcing as much as possible, QCC is able to focus on quality and consistency.

Holder of two US patents

Handling all aspects of manufacturing in-house is the foundation of QCC's innovation. QCC is responsible for two US patents in the oxy-fuel industry.

QC Series torches and tips create a system of machine cutting that QCC claims is unparalleled in the industry. With reference to QC Series tips (US Patent: 11067271), QCC took a traditional post-mix cutting tip and re-engineered it, to improve the ratio of pre-heat gases and increase the total volume of gases. These changes allow users to reduce the total gas pressure, gas consumption and waste as well as producing a more focused and well-defined flame. By using an improved cylindrical shroud, QC Series tips deliver an improved and tighter gas stream by promoting more thorough mixing and more efficient combustion.

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As a result, QCC's exclusive QC Series high-performance torch and tip setup claims to cut steel faster and more efficiently than any other post mix setup available on the market. When used in combination with one another, QC Series machine torches and tips are capable of cutting material over 70 inches thick. The QC Series post mix torches and tips are the starting point, of a product line of machine torches that are perfectly suited for the steel production and steel fabrication industries.

In addition to machine cutting torches, QCC also provides scarfing torches and hand-held emergency cut-off torches in custom lengths, that can cut material anywhere from less than an inch to 60 inches thick.

The Ohio-based company is also a leading provider of custom engineered gas management options for mills and foundries. It has provided gas line filter bypasses, single station drops, and multiple drop manifolds for steel mills and foundries all over the United States. These pieces of gas management equipment are fabricated on site in Mentor, Ohio and outfitted with QCC manufactured regulators, gas filters, and industry leading check valves and flash arrestors.

The crown jewel of QCC's gas management offerings is QCC's Flowmeters (US patent: 10690527). The first flowmeter – also known as a rotameter – was patented in 1908 in Germany by Karl Kueppers. While flowmeter technology has seen numerous improvements and innovations since then, the 2FLM3200 series is QCC's most advanced offering.

The 3200 Series flowmeters can measure up to four gases with a single unit, with custom gas configurations available, at the tightest margin for error factor. QCC's flowmeters can keep your readings accurate to



+/- 5%, a key requirement in shipyards. These flowmeters are used anywhere flow readings are paramount to an organisation's processes and standards.

QCC has also leveraged decades of experience to create the best equipment and systems, for scrap yards and demolition companies. Its line of hand-held cutting torches boasts five product series, torch lengths from 21 inches to 210 inches, and a vast array of options and accessories.

QCC also provides specialised equipment specifically designed to handle all the stainless steel, tool alloys, plated material, and the heaviest, most unpredictable cast pieces you'll find in a scrap processing centre.

Focus on safety

QCC is focused on the safety of the men and women using its equipment. Every one of the QCC branded torches are tip-mix.

Tip-mix hand-held torches are one of the safest options in an industry centred around creating flames hot enough to cut through steel. Rather than mixing preheat oxygen and fuel in the torch handle or body, tip-mix tips feature a unique design that mixes preheat gases in the cutting tip. This greatly reduces the chance of flashback/blowback occurring, the possibility of operator injury and potential equipment damage.

By reducing the likelihood of flashback/blowback occurring, QCC's tip-mix style cutting tips minimise the chances of torch and equipment damage. If a flashback/ blowback does occur, tip-mix cutting tips limit the damage to inside the cutting tip. This not only reduces the potential for expensive torch and equipment damage, but it keeps operators out of harm's way.

Quality Components Company services the steel industry at every stage of steel's life cycle. From a brand-new billet, to cutting the material into a usable shape, to dismantling the equipment the material created, to processing the steel to be ready to go right back into a ladle to be melted down to create the next piece of equipment that will keep pushing society forward.

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