

STEEL LIBS

Wonderful World of Welding!

Welding connects pieces of steel into a variety of shapes, sizes, and combinations—and it's older than you might _____ . The process was first discovered approximately _____ years ago by a clever Bronze Age _____ who used their creativity and outside-the-box thinking. First, they heated the metal over a very _____ fire until it started to melt. Then, they pounded it _____ with a hammer to apply both _____ and heat, a process that's still known as _____ and still in use in some parts of _____ today!

This steel forging method was the only way to weld for centuries—then modern welding was born around the early 1900s and _____ the world that we live in. Anything that is made of steel can be welded, no matter how _____ it is. There are examples of welding everywhere in the world around us, from cars to railroads, art to aircraft, _____ to satellites, wind turbines to _____, boats to spaceships, skyscrapers to bridges. The process of welding has helped transform the construction industry to _____ structures faster than ever before. Today, there are more than 80 unique welding processes in use, _____ that's a lot!

Arc welding is still the most _____ form of welding for structural steel. In arc welding, an electric _____ flows between two electrodes, passing through a special gas mixture. _____ constructed the first all-welded steel buildings in the U.S. in 1924. Specially trained people _____ steel. They use the latest technology, lots of heat, and, of course, some very cool safety equipment to build _____ bridges, buildings, and _____ in their communities. Welders shape our _____ and build a better place for _____ . If you want to become a welder, you should _____ the American Welding Society and the American Institute of Steel Construction to _____ more!

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Institute of Steel Construction

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American Welding Society



**Smarter.
Stronger.
Steel.**