



Challenge

- ▼ Welds were virtually impossible to clean
- ▼ A quick and less expensive solution was needed

Solution

- ▼ A five-step immersion bath
- ▼ Process improved consistency and reduced time

Outcome

- ▼ Time saved gave more time for other tasks
- ▼ Client got frames faster and cleaner

REALLY CLEANING UP



The Challenge

A Global Power Equipment producer provides heavily welded, rugged frames for its customers' devices. The welds, which are done on the inside of the frames, reduced the manual grinding of the welds and lowered costs, but cleaning them consistently was labor intensive and some of the welds were virtually impossible to reach.

The Solution

Serco Manufacturing Company suggested using its powder coating pretreat system, an immersion method, to clean parts like the hard to reach frame interiors. Serco employed five distinct cleaning stages in large tanks, to dip the frames and submerge them, for precise times during each chemical process. One of the steps included an acid bath that ate away the surface of the metal, including the thin film of weld oxidation. This process reduced the manual cleaning from 17 minutes down to 4 minutes, in the acid tank.

The Outcome

Reducing the exhaustive 17 minutes of manual cleaning to just 4 minutes in the second cleaning tank, not only saved labor time, but the liquid chemical used in this step reached every point consistently on the frames. With the 13 extra minutes of time saved, employees could perform other processes, which multiplied the savings and efficiency. The Power Equipment provider received a better quality product, sooner, and with a better price. That's really cleaning up.

About Serco Manufacturing

Since 1983, Serco Manufacturing Company has provided quality products and service solutions in the precision sheet metal fabrication and machining industry. Call today to find out how our ingenuity and creative solutions can benefit your business.