Sealing for a Safer and Greener Tomorrow

TEADIT Large Camprofile Case History

INDUSTRIAL SEGMENT

Refining

SCENARIO

When a large refining customer came to us with a request to manufacture camprofile style 942 gaskets more than 12 feet in diameter, we immediately recognized a number of challenges. Camprofile gaskets are manufactured by cutting or forming a flat metallic core (typically a ring shape), machining the surface, and then facing the carrier with a sealing element (often graphite or expanded PTFE).

SOLUTION

Due to limitations in raw material sheet sizes, often times large camprofile gaskets are manufactured in segments and then welded together to form the finished gasket prior to being machined. This is a fairly standard industry practice, but welding and machining gaskets this large is not common nor easy. To be able to form the core and then machine it, Teadit's manufacturing staff had to move several pieces of equipment to a dedicated area in our facility that had enough space to do the work necessary to properly assemble, weld, machine, and face these gaskets.

Additionally, because of the size of the gaskets and the thinness of the metal core, the gaskets were very flexible and highly susceptible to handling damage. This meant that additional supporting need to be integrated into the manufacturing process to keep the gaskets flat and to avoid damage. To add to the challenge, the process required the parts to be flipped over at various stages. Again, Teadit's manufacturing team's experience and ingenuity prevailed, as a system for carefully handling and flipping the parts, which required 4 people working in unison, was developed, and executed to perfection. Lastly, special crating and packaging needed to be designed to enable shipment to the customer and safe storage until installation.

CUSTOMER GAINS

The customer was able to solve their large campofile issue they had been experiencing and saved time and money by sourcing a local solution in Teadit!