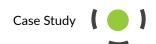
Case Study



Efficiency through Accuracy

TSR welding by SAW Twin-head technique

Location - Hazira

The Process

To achieve dimensional accuracy, we have replaced manual methods of welding with Twin-head SAW technique for welding of TSR (tray support ring). Conventionally, welding of TSR's was done by manual SMAW or GMAW process.

There was a need to develop mechanized welding process like SAW to overcome limitations of manual welding processes.

The Challenge

- 1. Low Productivity of conventional processes.
- 2. High rejection and rework due to distortion of TSR's.
- 3. Wastage of resources in weld dressing for visual inspection.

The Benefits

- 1. Increase in efficiency leading to zero rejection and rework due to angular distortion.
- 2. 100 % acceptance in dimensional inspections.
- Increase in time savings; up to 84 Welder Man-days saved.
- 4. Improvement in weld finish achieved thus, reducing the need for additional dressing before inspection.

The Impact
Total cost savings - 2,24,000 INR.
(Consumable + Manpower + Electricity)