

# FRAC PUMP WELD FIXTURE

## PROJECT DESCRIPTION

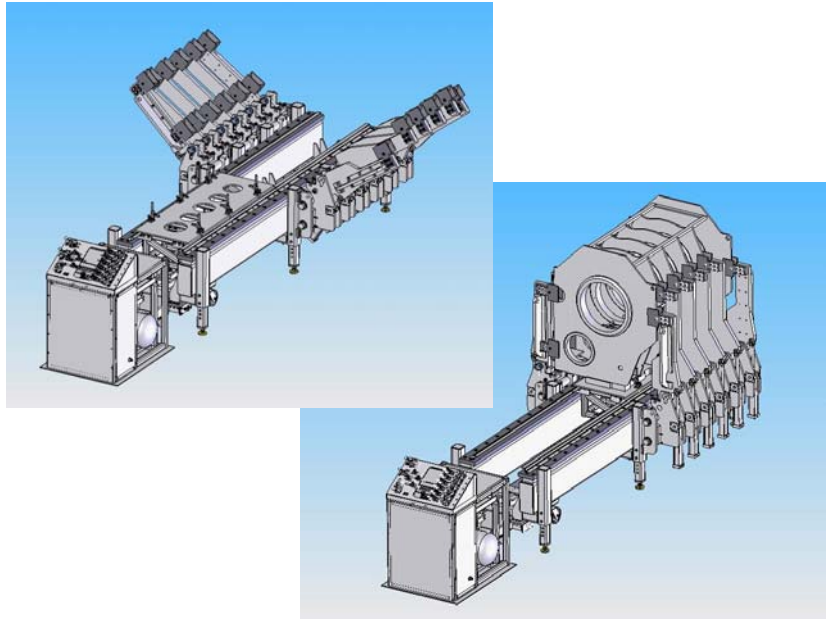


A CLIENT ASKED THAT I HELP STREAMLINE AND IMPROVE THE CONSISTENCY OF THEIR FRAC PUMP WELDING PROCESS BY:

- ANALYZING THE EXISTING PROCEDURES AND EQUIPMENT
- SUGGESTING A NEW FABRICATION PROCESS
- DESIGNING A CUSTOM FIXTURE TO INSURE FASTER PART FLOW AND QUALITY.
- I COMPLETED THE DESIGN, ENGINEERING, AND DRAWINGS FOR A PNEUMATICALLY POWERED WELD FIXTURE.

## DESIGN NOTES

- THE FRAC PUMP IS BUILT IN STAGES, THE PART FLOWING FROM ONE END TO THE OTHER THROUGHOUT THE PROCESS.
- A PNEUMATICALLY POWERED SLIDE TABLE MOVES THE FABRICATED NOSE SECTION TO THE FAR END WHERE THE SWING ARMS ARE USED TO HOLD THE SIDE PLATES IN THE CORRECT LOCATION AND POSITION FOR WELDING.
- ALL CONTROLS ARE LOCATED ON A PEDESTAL FOR CONVENIENT AND SAFE FIXTURE OPERATION.
- ALL PNEUMATIC HOSES ARE EITHER BRAIDED STAINLESS STEEL OR ENCLOSED IN A HOSE TROUGH TO PROTECT THEM FROM WELD SPATTER.



## PROJECT SUMMARY



THE PROJECT DESIGN WAS COMPLETED IN MARCH OF 2008. THE FINAL TEST RUN OCCURRED IN AUGUST OF 2008, AFTER WHICH THE FIXTURE BECAME A PART OF THE NEW WELDING PROCESS.

WEBSITE: [WWW.TEAM-IMS.COM](http://WWW.TEAM-IMS.COM)  
TEL: 877-693-7467  
FAX: 888-316-0763  
EMAIL: [SALES@TEAM-IMS.COM](mailto:SALES@TEAM-IMS.COM)