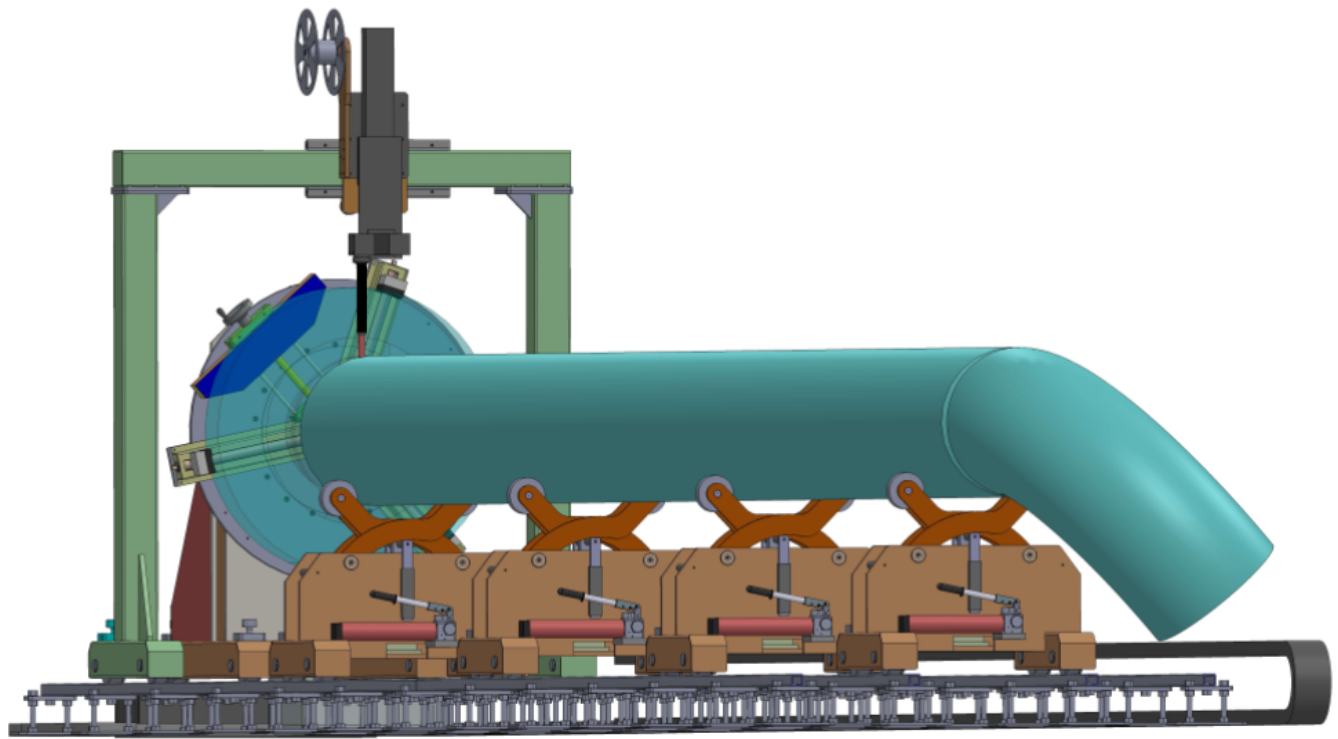


BUTT WELDING STATION



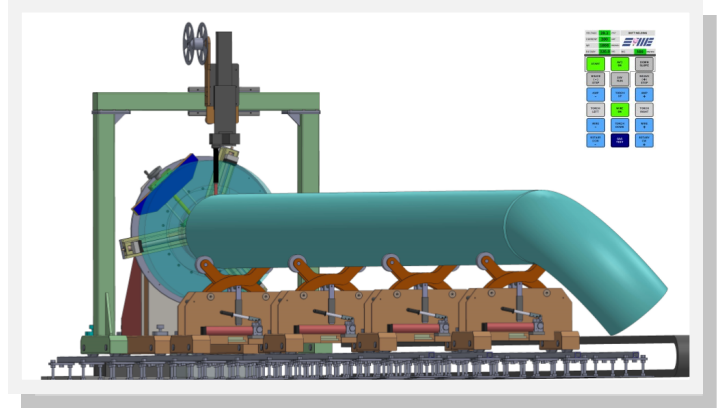
This is a fully automated PLC based GTAW **Butt Welding Station** which shall be fixed in the workshop.

There will be a water cooled Torch mounted on slides arcing with the rotating job and filler wires fed automatically in the weld pool.

The welding torch shall be flexible allowing it to melt the side walls properly.

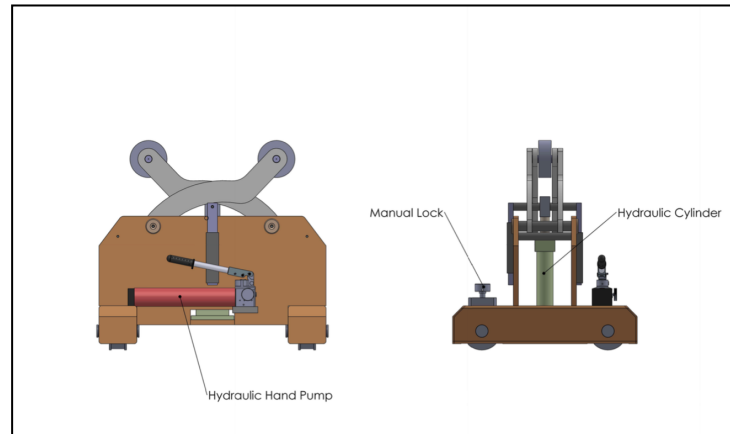
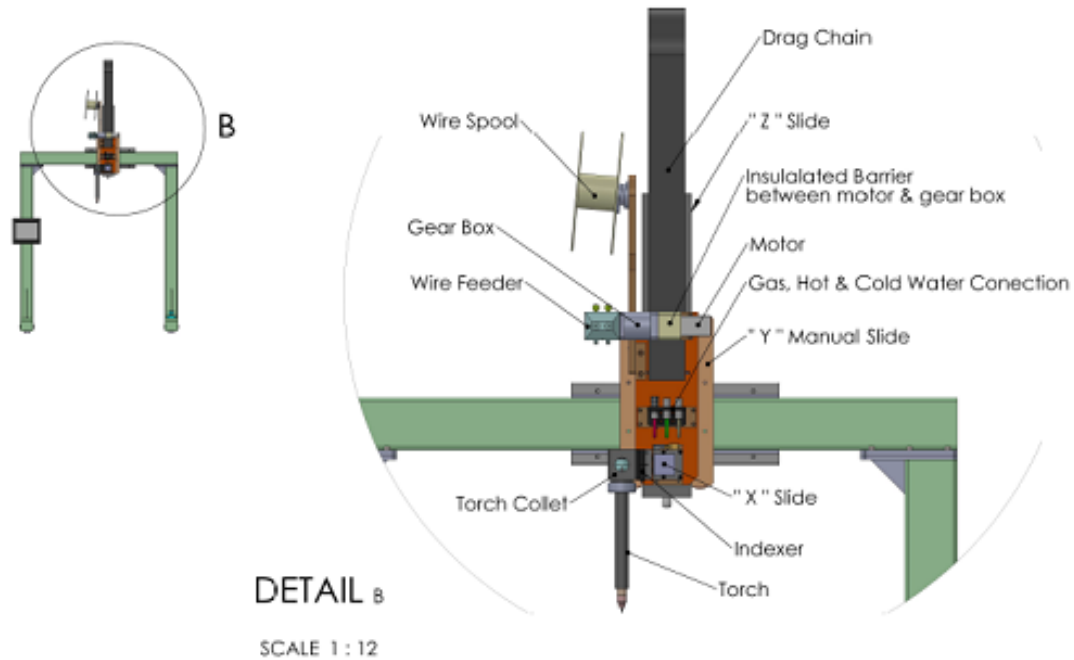
The welding parameters like current, voltage, welding speed, wire feed, step over etc will be programmable and controllable via PLC and will have overrides through a handheld Wireless Remote Pendant.

KEY FEATURES



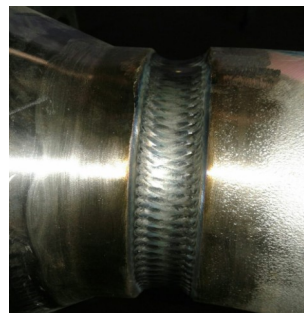
- ◆ A lineup of high speed, high precision, **Servo drives with Ether CAT** communication. High resolution absolute multi-turn encoder & safety network built-in.
- ◆ **HMI** with projected unbreakable glass capacitive touchscreen and the brilliant 10.1" widescreen display with resolution of 1280x800 guarantee great optical performance.
- ◆ **IoT edge devices** with the combination of a powerful controller with networking capability.
- ◆ Provides live, interactive display of multiple machine data from a remote location thanks to J mobile, Run time & CORVINA Cloud application.
- ◆ Unique second generation **Inverter** type welding power source for reproducible welding results of the highest possible quality.
- ◆ Optimized for automated applications with Tetrix BUSINT X11 **Ether CAT** Industrial bus interface.
- ◆ Digital Gas flow & Water flow **sensors** with display on HMI for real time monitoring of Gas flow & Water temperature.
- ◆ **Monitors and Records** essential variables such as Voltage, Current, Weld speed, Wire feed etc and other welding parameters like gas flow, water flow & temperature, Inter pass temperature etc allowing clients to control the process and produce reports.
- ◆ **Wireless Pendant** for operations & real time display of essential weld parameters.
- ◆ User friendly software design.
- ◆ More flexible and reliable as compared to wired pendant.

Standard Specifications & System components



- ◆ Manual 'Y' slide for fine adjustment to maintain center.
- ◆ Ball screw driven 'Z' slide for AVC and to reach sizes from 6" TO 24"
- ◆ Ball screw driven X slide for fine adjustment of joint centre, weaving and stepping in cladding mode for filling & capping
- ◆ Manual indexer for tilting the torch up to 45 deg either side for better reach on side walls
- ◆ Sheets to cover rail and ball screw
- ◆ Scissor jack with hydraulic cylinder
- ◆ Simple hand Lever to operate cylinder from an oil pump

Gallery



Machine Specifications

Process : Auto Pulsed Tig

Pipe To Pipe joints - Min 6" | Max 24"

Pipe To Flange joints - Min 6" | Max 24"

Pipe To Tee joints - Min 6" | Max 24"

Max tilting of Torch - 45 deg either side

Max weight : 7000 kg

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