



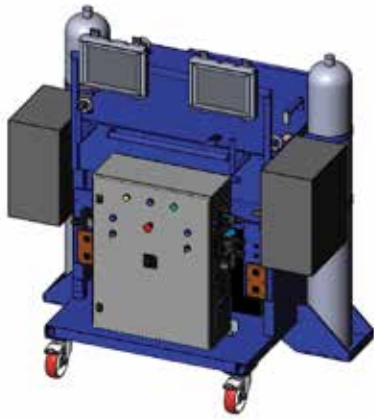
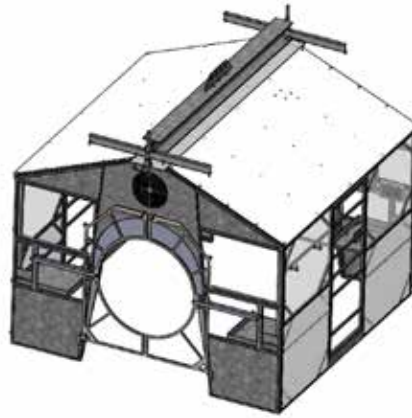
Robotics



An Innovative autonomous pipe welding robot, using advanced Laser sensing technology. Significantly improves welding process and increases throughput

Arow

Autonomous
Robot for Orbital
pipeline Welding

Indoor Application

Outdoor Application

AROW - Autonomous Robot for Gas Pipeline Welding - Highlights

- GMAW (MIG) Welding of **pipe segments**
- Welds Diameters from **12" and up**
- Welding **up hill** and **down hill**
- **Easy** to install and user friendly
- Moves on a **toothed band**
- **Real time** laser groove tracking
- 3 axis control using **servo motors**
- Automatic Servo controlled **wire feeder**
- **2 Arrows** can work simultaneously on the same pipe
- **Automatic welding**
- Less Skilled Welder needed
- Designed for a **tough** outdoor work **environment**
- High reliability and productivity
- Minimal and **easy maintenance**

Technical information

Robot	Pipe Diameter	300 mm (12") and up
	Thickness welded pipe	5 – 32 mm (other optional)
	Pipe material	Carbon Steel (other optional)
	Welding Type	GMAW (MIG)
	Ambient temperature	-20 – 55 °C
	Welding speed	2 – 20 mm/sec (other optional)
Tracking	Laser line tracker	40 mm
	Positioning accuracy	+/- 0.2 mm
	Grove profile	J & V groves
Torch	Elevation (Z axis)	64 mm
	Motion perpendicular to seam (Y axis)	64 mm
	Welding oscillation - Frequency	0-4 Hz (s/w setting)
	Welding oscillation - Amplitude	0-18 mm (s/w setting)
System includes	AROW system	Including (In protective box)
	Welder Teach pendant	Including
	Operator HMI screen	Including
	Control cabinet	Including
	Toothed band	Including (According to pipe dia)
	GMAW P.S	Optional
	Gas Mixer	Optional
	Working cabinet	Optional (indoor or outdoor)

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