



Automatic Pipe Welding Process

## Automatic pipeline Welding Stations

Automatic pipeline welding stations are one of the most technological productions of NOVIN SAZAN industrial group.

By using these machines customer can benefit from a revolutionary increasing of efficiency in comparison with manual methods.

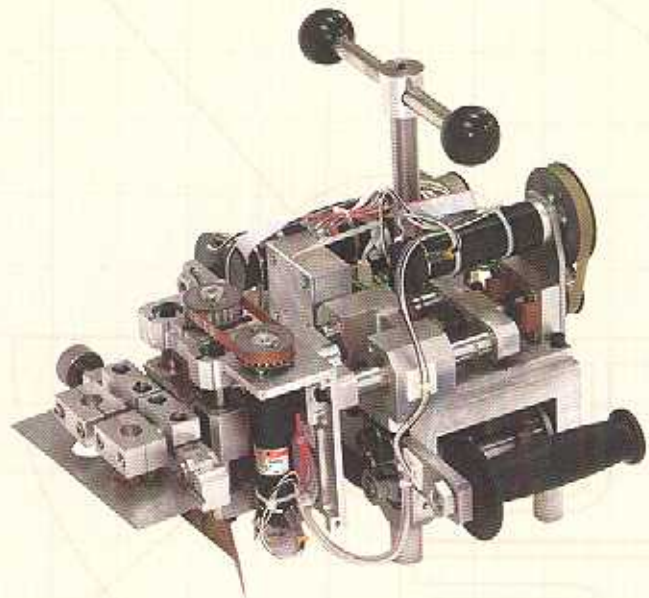
Some of the most important features of these systems are:

- Rapid increasing in welding speed (more than 2.5 times of manual welding methods.)
- Excellent quality and approximately zero defect of welding.
- Low consumption of electrode because of bevel shape.
- Decreasing of re-isolation cost less than half of manual methods.
- Decreasing of human source expenditure based on reducing in number of skilled labors.

Further more, Novin Sazan is active in pipeline construction projects and is ready to run projects in this field.



Performed Weld By  
GMAW Method



Bug Machine

### Main Parts:

- Dual Torch Bug
- Wire Feeder
- Ring
- Control unit and Software

### Technical Specifications:

- Oscillation frequency:..... Up to 3 Hz
- Oscillation amplitude:..... Up to 20 mm
- Oscillation speed:..... Up to
- Dimensions(W\*H\*H) in mm:... 420\*370\*320 mm
- Height stroke:..... 40 mm
- Operation range:..... From 10" to 60"(based on guiding rings diameter)
- Weight (approx):..... 16 kg
- Travel speed:..... Up to 2000 mm/min
- Input power:..... 380 VAC/50Hz or 440VAC/60Hz
- Min cut-back size:..... 50 mm
- Ambient temperature:..... - 40°c to +50°c

### General Features:

- Dual-Torch technology
- Reduced hardness of weld
- Capability of depositing two welding passes in each run
- Welding from root to cap
- One machine fits all 6" and upwards, 5G/2G and all steels
- High welding speed (Up to 2m/min)
- High deposition rates
- Simple and easy torch replacement
- Total computer control
- Aluminum guide ring
- High accuracy arc control

### Programmable parameters:

- Welding direction and speed
- Torches offsets
- Arc voltage and current
- Wire speed
- Oscillation width and zero
- Pulse frequency

