

I HEAD

CONTINUOUS SPIRAL ID CLADDING

The I Head uses smart motor technology for precise coordinated motion. The unique Flex Torch design enables ID and OD welding as well as nozzle wall buttering.



0.7" [18mm] - 24.8" [630mm] pipe diameter range



Smooth 24" [610mm] ball screw plunge axis



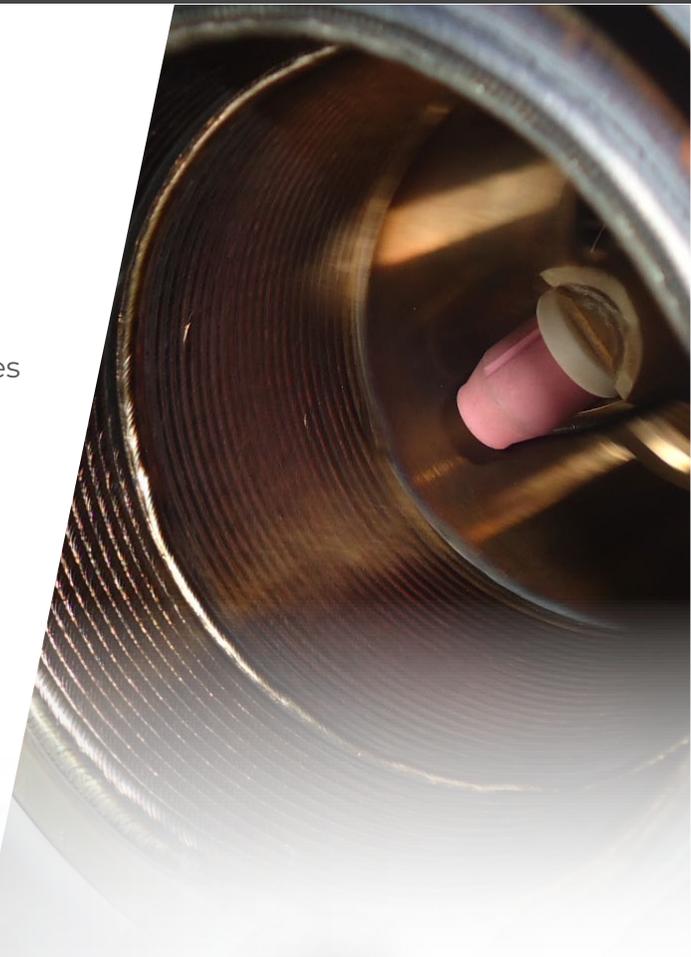
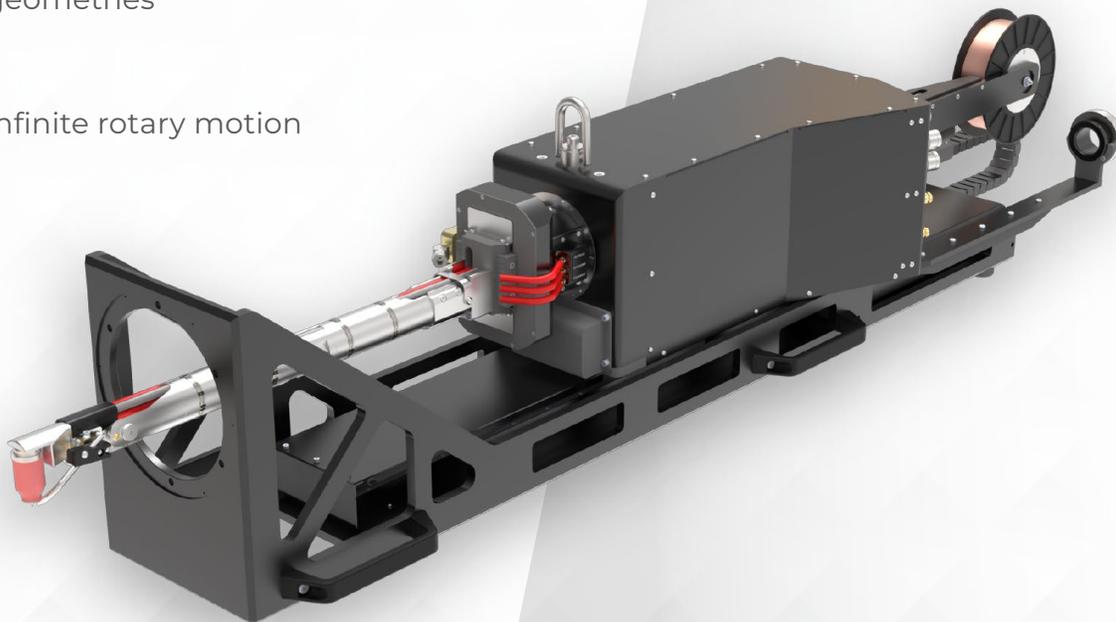
Multiple torch configurations

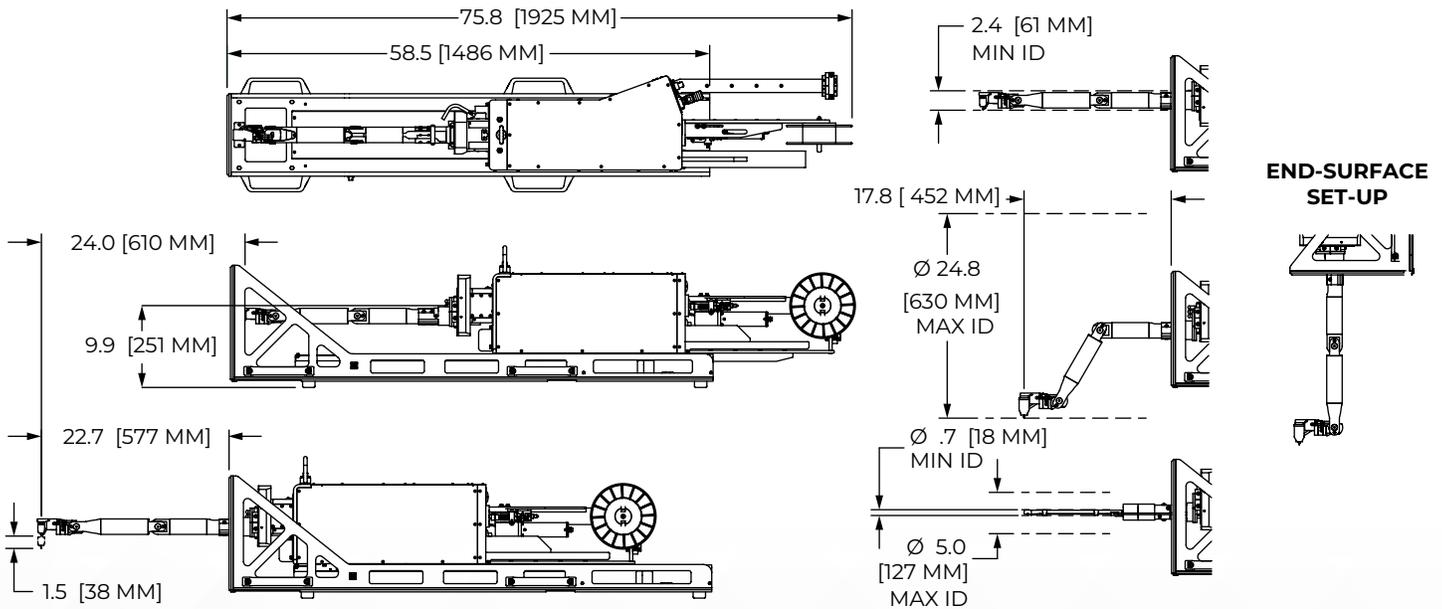


Capable of rotary, linear and complex weld geometries



Infinite rotary motion





Specifications

- Rotation Axis speed: 0.01 to 1.9 rpm
- Max Wire Feed Rate: 250 ipm [6.35 m/min]
- Filler Wire Size: 0.030" or 0.035" [0.8 mm or 0.9 mm] recommended
- Spool size: 8" AWS, 10lbs standard
- Plunge Axis stroke: 24" [610 mm]
- Plunge Axis speed: 0.005 ipm to 15 ipm [0.13 mm/min to 0.38 m/min]
- Radial Axis stroke: 1.5" [38 mm]
- Weight without cables: 180 lbs [82 kg]
- Cable length: 35 ft [10.7 m]

Options

Flex Torch:

- Tungsten electrode size: 1/8" [3.2mm]
- Rating:
 - 250 A @ 100% duty cycle
 - 300 A @ 100% duty cycle with external cooling

Small Bore Torch:

- Tungsten electrode size: 3/32" [2.4mm]
- Rating: 120 A @ 100% Duty Cycle

Standard Features

- Smart motors on rotary and axial axes allow precision synchronized motion and unmatched feed rate range (Smart Motor Power Module included)
- Infinite torch rotation enables spiral welding
- Wire spool rotates with the torch to ensure stable wire entry into the weld pool
- ID, OD and Axial welding capability
- AVC function supported by both radial and axial axes
- Touch Start and High Frequency arc initiation
- Single point lifting lug and side mounted handles
- Removable umbilical for easy tool mounting
- Dovetail style torch mount enables easy torch change over and radial adjustment
- Built-in secondary gas plumbing (can be used for trailing or purge gas)
- Hot Wire option available

Compatible Power Supplies:
Liburdi Dimetrics Gold
Track™ and GT400™

