



INFINITE ROTATION ROBOTIC CLADDING SYSTEM

# ARC-5

I N F I N I T Y

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## INFINITY

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## SUMMARY

If oil has a Sulphur content of 5%, it's considered sour. Toxic to humans, this biodegradation produces hydrogen sulfide (H<sub>2</sub>S), generating atomic hydrogen that migrates into the steel matrix, causing sulfide stress cracking—a form of hydrogen embrittlement. The conventional solution has been to clad weld overlay all internal surfaces of valves and pipes with nickel-based alloys low in iron. Enter the ARC 5:

The ARC 5 Infinity is the next generation of ARC Specialties' GTAW Hot Wire Systems, which can be found in hundreds of businesses around the world. While the first systems were simple turntables rotating the part while the welding torch clad the inner surface, as parts became bigger, we opted to leave the part stationary and rotate the torch instead. The ARC 5 combines our infinite rotation head with a Fanuc robot, resulting in a superior design purposely engineered to weld complex parts with intersecting bores.

## SPECIFICATIONS

Control	PLC
Touchscreen	15" Color
Handheld operator pendant	Yes
Xiris Weld Camera	With Dedicated Screen
	Position Based Calculations (Faster and Easier Programming)
Programming	Yes
PLC Remote Diagnosis	Yes
Arc-On Timer	Yes
	Yes
Wire Counter for accurate Measurement of Usage	Yes
Welding Process	TIG-Hotwire
ARC Specialties Torch	Adjustable 1.9" x 24" Hot-Wire
Simple 2 point programming of cylinders	Yes
Simple 4 point programming of Tee Joint	Yes
Simple 4 point programming of X Joint	Yes
	Yes
Simple 3 point programming of Upper Minor Bore	Yes
	Yes
Simple 3 point programming of Lower Minor Bore	Yes
Intersecting Bores for Cylinder Bores	Yes
Ring Groove Programming	Yes
Intersecting Bores for Race Track Bores	Yes
Race Track Bore Welding	Yes
Race Track Ring Groove Welding	Yes
Bonnet Faces for Race Track Welding	Yes
Square Bores with Rounded Corner Welding	Yes
	Yes
Intersecting Bores for Square Bores with Rounded Corner Welding	Yes
Auto Ring Groove Centering	Yes
Auto Centering of Bores	Yes
Welding parameter overrides	Yes
Real Time Position Overrides while welding	Yes
Dimension	Width - 8' 2 1/2"
	Depth - 101"

