TACKLE HEAVY WELDING APPLICATIONS WITH ADVANCED PUSH-PULL TWIN-WIRE SYSTEM

THG Automation advance push-pull twin-wire system is built for those rugged jobs where heavy deposition and deep penetration are a necessity, not a "nice to have."

- **Simple to teach**
- **Advanced robotic capability**
- **Built to grow**

Key Strengths

Wizard-Like
Create welding programs quickly and easily with a streamlined, user-friendly interface.

Teach Button
Teach waypoints from welding torch adapter to make program setup quicker

Wire Retraction
Prevent wire bending when teaching and testing program points.

Seam Tracking
Follow the weld seam in real time to automatically react to part variation.

Large Job Capacity
Store up to 1,000 weld jobs on a single unit.

Heavy Duty
Dual CMT-ready power sources synced for projects requiring heavy deposition rates.

Multipass: Path record weld seams to easily replay for multipass welding.

Touch Sensing: Find part variations to adjust weld points in multiple dimensions.

Copy & Pattern Welding: Move, copy or pattern welds.

Stitch Weld: Set two points, weld length and the number of welds for a series of stitch welds.

Starter Kit: Includes contact tips & tools.

Lockable Power Source: Restrict who can edit parameters with an included RFID card.

Small Footprint: As small as 4'x4'

Weld Table Area: 3'x4' and supports optional clamping system.

Modular System: The system easily grows with your needs by purchasing additional features as you need them.

Weaving: Set weave pitch, length, angle and dwell left and right.

Part Check: Check for part or feature presence.

Job Editor: Access all of your weld job parameters via a web browser to do bulk edits and speed up weld development.

Robot Protector: Screen & teach pendant protector

Robot Protector: Arm spatter guard system.

Twin-drive torch and hose pack: Syncs dual-feed push-pull wire feed system.

Chiller-cooled gas nozzle: Chilled through-coolant feed supports heavy duty cycles.

Added Functionality with CMT Wire Feed Options:

Wire Sense: Advanced seam finding by developing 3D point cloud.

Edge Detect: Finding sheet metal overlaps with other search functions is difficult and usually requires a camera.

Safe Speed & Force Pressure: Safety limits for a safe, robot-to-operator collaborative environment.

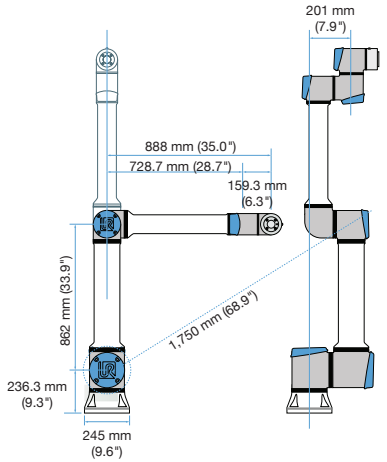
Free Drive: For direct manipulation of the welding torch and easy positioning.

Twin-Wire MIG System

Heavy deposition rates and deeper penetration for your most rugged welding operations.

Specs	Water-Cooled Push	Water-Cooled Push-Pull	Advanced Push-Pull CMT
Power source:	TPS/i MV/nc		
Input voltage - xø, V:	3ø, 200-575V		
Fuse protection:	*63A slow-blow @ 200/230/240V / 35A slow-blow @ 380/400/460/575V*		
Voltage tolerance:	±10%		
Frequency - Hz:	50 / 60		
MIG Torch type:	Water-cooled push	Water-cooled, CMT-ready push-pull	Water-cooled, CMT push-pull

UR20



Universal Robots Specs	
UR Cobot:	UR20
Reach - mm (inches):	1,750 (68.9”)
Payload - kg (lbs):	25 (55.1)
Footprint - mm (inches):	ø 245 (10.0”)
Weight - kg (lbs):	64 (141.1)
Voltage (VAC):	100-240
Frequency (Hz):	47-440
Max draw (amps):	15

System highlights:

Twin-wire system features:

- **2 x 400/500A power source.**
- **Liquid-cooled torch and cooler.**
- **CMT-ready push-pull wire feed system.**

System component features:

- **Integrated chiller for enhanced duty cycle operations..**
- **Through-cooled gas nozzle.**
- **Proprietary URCap software with a graphical interface on the teach pendant.**

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