THG AUTOMATION™

Water-Cooled Push System

URW - 2W

Industrial Cobot System with Advanced Welding Functionality. Complete system with table and clamp kit.

The THG Automation Water-Cooled Push System is a versatile welding solution ideal for carbon steel, stainless steel, and aluminum. Its water-cooled torch and upgraded 500 amp power source enable efficient welding of thicker materials and extended duty cycles. This system is perfect for high-mix manufacturing environments, where it can quickly augment and increase your welding production. Its compact design makes it ideal for space-constrained manufacturing operations, artists, tool rooms, R&D teams, and mobile applications.

Simple to Teach, Elevated Function, Easy to Weld.

Wizard-Like
System interface creates welding programs easily.

Teach Mode
Prevent bent wire when teaching and testing program points.

Welding Simulation
Turn the welding process on or off at any point during program execution.

Teach Button
Teach waypoints from the welding torch adapter to make setting up programs quicker.

Seam Tracking
Follow the welding seam as you are welding to handle part variation on the fly.

Easy Transfer
Copy and paste weld parameters from one Fronius power source to another.

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

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

1000 Weld Jobs: Large welding job storage.

Copy And 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 weld parameters with an included RFID card.

FREE Software Upgrades.

Small Footprint: Approximately 4’ X 4’.

Weld Table Area: 3’ X 4’ and supports optional clamping system.

Three Year Warranty on full system.

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

Weaving: Set weave pitch, length, angle, dwell left & 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.

Pendant Armor: Screen & teach pendant protector.

Robot Protector: Arm spatter guard system.

Siegmund Weld Table & Fixture Kit: Comes with each table.

Wire Feeding: Feed wire from a barrel or from the optional spool holder.

Fronius-Specific tool kit.

FREE Phone Support.

Water-Cooled Push System

THG has created a full line of modular systems tailor-made for every customers' production needs. The Water-Cooled Push System brings all of Fronius' capabilities to your fingertips for Agile Production at its best.

Specifications

Input	208 - 480 three-phase power
Wire Dimensions	.03" to .082"
Wire Capacity	44lb spool or drum
Table Dimensions L x W x H	48in x 36in x 36in
System Reach	UR10e - 51in UR20 - 68.9in

The robots run from 120 volts to 240 volts.

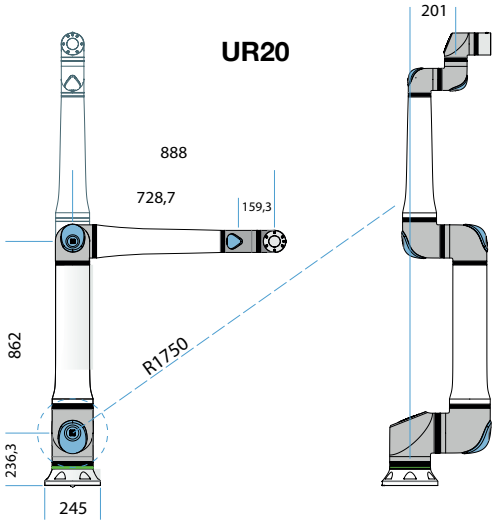
Fronius features:

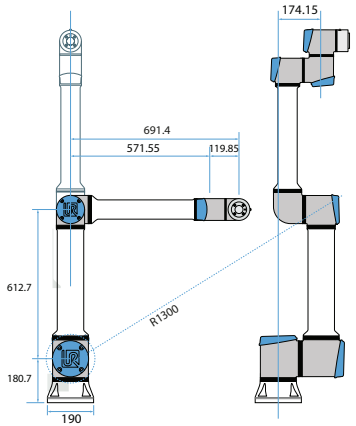
- 500 amp power source
- Water-cooled torch and cooler

Fixture kit per table:

8 X Professional Screw Clamp (Nitrided) 24 X Short Fast Clamping Bolt (Burnished) 16 X 5" Universal Stop (Nitrided) 8 X Stop and Clamping Square (12" Tall) (Nitrided) Table Maintenance Set

- World-class welding processes for perfect welds
- Welding process, Standard MIG, Pulse MIG, PMG
- Welds carbon steel, stainless steel, aluminum, and other metals





thgautomation.com
Contact Sales - (317) 593 - 5575
sales@thgautomation.com

Advanced Push-Pull System

URW - 2PA

Industrial Cobot System with Advanced Welding Functionality. Complete system with table and clamp kit.

THG Automation has created the URW-2PA, industrial COBOT welding solution for operations requiring high functionality and flexibility in their production welding processes with ease--of-use robot programming. This full industrial system gives you durability for 24/7 operations plus the finesse to successfully tackle thin materials and difficult fitups. This solution is great for manufacturing operations, R&D teams, aerospace, and automotive applications with all metals, from thin to thick, especially aluminum and stainless steel.

Additionally, its Wire Arc Additive Manufacturing (WAAM) capabilities make it an excellent entry into additive manufacturing.

Simple to Teach, Elevated Function, Easy to Weld.

Wizard-Like
System interface creates welding programs easily.

Teach Mode
Prevent bent wire when teaching and testing program points.

Welding Simulation
Turn the welding process on or off at any point during program execution.

Teach Button
Teach waypoints from the welding torch adapter to make setting up programs quicker.

Seam Tracking
Follow the welding seam as you are welding to handle part variation on the fly.

Easy Transfer
Copy and paste weld parameters from one Fronius power source to another.

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

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

1000 Weld Jobs: Large welding job storage.

Copy And 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 weld parameters with an included RFID card.

FREE Software Upgrades.

Small Footprint: Approximately 4’ X 4’.

Weld Table Area: 3’ X 4’ 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, dwell left & 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.

Pendant Armor: Screen & teach pendant protector.

Robot Protector: Arm spatter guard system.

Siegmund Weld Table & Fixture Kit: Comes with each table.

Wire Feeding: Feed wire from a barrel or from the optional spool holder.

Fronius-Specific tool kit.

FREE Phone Support.

Added Functionality With CMT Wire Feed Option:

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

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

Advanced Push-Pull System

THG has created a full line of modular systems tailor-made for every customers' production needs. The advanced Push-pull system brings all of Fronius' capabilities to your fingertips for Agile Production at its best.

Specifications

Input	208 - 480 three-phase power
Wire Dimensions	up to 1/16 in
Wire Feeder Wire	push-pull torch, buffer unit, and 4 roll wire feeder
Speed Feed	1 - 25 m/min 40 - 980 ipm
Wire Capacity	44lb spool or drum
System Dimensions L x W x H	48in x 48in x 60in
System Reach	UR10e - 51in UR20 - 68.9in

The robots run from 120 volts to 240 volts.

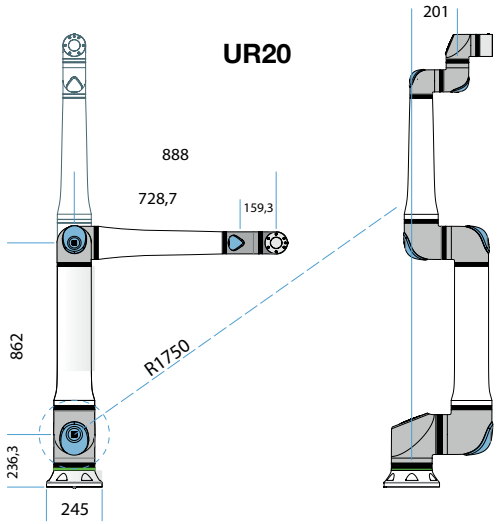
Fronius features:

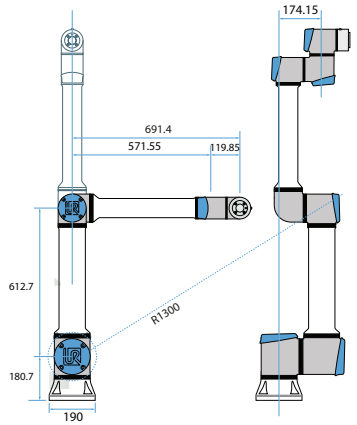
- 400 amp power source
- Water-cooled torch and cooler
- CMT Push-Pull wire feed system

Fixture kit per table:

8 X Professional Screw Clamp (Nitrided) 24 X Short Fast Clamping Bolt (Burnished) 16 X 5" Universal Stop (Nitrided) 8 X Stop and Clamping Square (12" Tall) (Nitrided) Table Maintenance Set

- World-class welding processes for perfect welds
- Welding process, Standard MIG, Pulse MIG, PMC, PMC Ripple Drive, CMT
- Welds carbon steel, stainless steel, aluminum, and other metals





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