

/ Perfect Welding / Solar Energy / Perfect Charging



ROBOTIC WELDING EQUIPMENT

/ Perfect Welding / Solar Energy / Perfect Charging



What's your welding challenge?

Let's get connected.



yourweldingchallenge.com

www.fronius.com

FRONIUS ROBOTIC WELDING EQUIPMENT

THE PERFECT SOLUTION WHATEVER YOUR WELDING CHALLENGE MAY BE

Demands in robotic welding are usually high: welding equipment must deliver outstanding weld quality, operate efficiently, be flexible, dependable, and last for a long time.

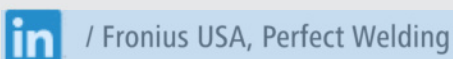
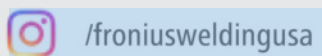
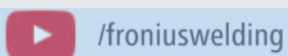
The Fronius robotic welding equipment line up is the perfect answer to these challenges. Fronius welding machines are technology driven products with the highest levels of quality, cost effectiveness, energy efficiency, and robust design for any working environment. The digital control ensures an exceptionally stable arc and 100% reproducible welding results. Intuitive and smart operating concepts make your life easier. Every Fronius welding machine is an innovative and powerful solution you can use to complete all your welding tasks in an instant. Whether it's for MIG or TIG, Fronius is a welding technology leader and we offer the ideal product solution for every welding process. Our welding machines are used in metalworking, light and heavy fabrication, service and repairs, vehicle maintenance repair, mechanical and industrial plant construction, and educational institutions. Millions of users around the world put their trust in the quality and performance of Fronius welding equipment.

In this catalog you will find Fronius' innovative welding equipment for robotic applications in ready-to-weld packages, along with their respective downloadable configuration forms.

For more information on our robotic welding systems please visit:

<https://www.fronius.com/en-us/usa/welding-technology>

Let's get connected!



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NOTE:

All package numbers in this catalogue are predefined packages.

CATALOG & PRICING VALIDITY:

Prices are effective January 1st, 2020 through December 31st, 2020. Prices do not include sales tax or delivery. Fronius USA reserves the right to change prices or equipment configuration at any time without notice. Specifications will be those in effect at the time the order is entered at Fronius USA. All prices are FOB Fronius USA, Portage, IN. For any orders under \$100 a \$10.50 processing charge will be added.

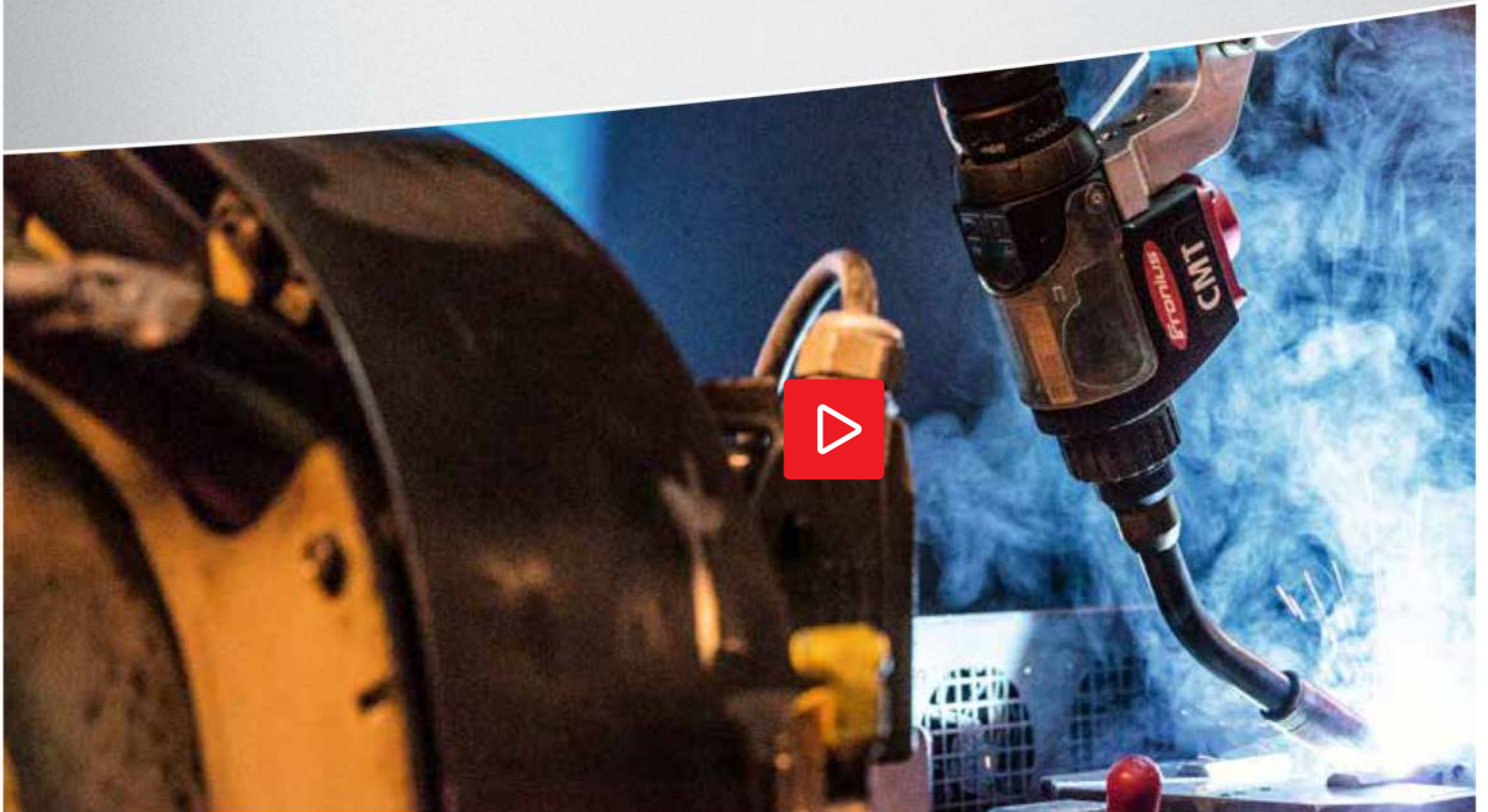
CANCELLATION AND RETURN GOODS POLICY.

All returned goods require the written authorization of Fronius USA prior to return and are subject to a 15% restocking charge, must be returned unused and in original unopened container. Orders cancelled prior to shipment are not charged to purchaser. Orders cancelled after shipment are subject to our returned goods policy.



TPS/i

THE INTELLIGENT ARC REVOLUTION



- / COMPACT AND LIGHTWEIGHT DESIGN
- / SUITABLE FOR WIDE VARIETY OF FILLER METALS
- / SUPERIOR WELD PROPERTIES
- / PULSE INCLUDED IN US PACKAGES
- / SAVE TIME PROGRAMMING WITH TEACH MODE



TPS/i

ROBOTIC WELDING AT ITS FINEST

TPS/i was built with the future in mind. Each new system is configured for the applications you use today and can be expanded as your business changes. We are constantly developing welding processes, functions and characteristics to improve wherever there may be room. Updates and upgrades are easy, and in most cases can be done without a technician or specialized hardware. This modular concept ensures your machine is state-of-the-art for years to come.



PRECISION WIREFEEDING

/ Completely insulated, perfect wire feeding and highly dynamic motors enable responsive control and high welding speeds as a result. A clear window provides a clear view in tight spaces.



PLAIN-TEXT DISPLAY

/ A 7" touchscreen design ensures easy and efficient operation. The powersource is the same for manual welding and robotic welding making an easy conversion for retrofits.



INTERFACE INSIDE

/ The compact robot interface is fully integrated in the power source, it can be used with any robot interface, and ensures reliable robot to welding system communication.



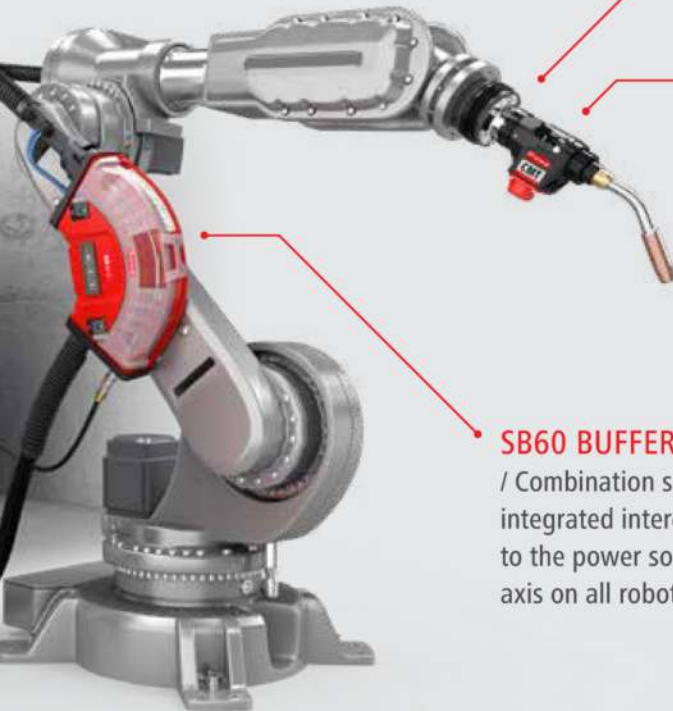
MAGNETIC CRASHBOX

/ Prevent damage to the welding torch in the event of a crash using the advanced magnetic crashbox. Maintains the TCP eliminating unnecessary downtime.



NEW, HEAVY DUTY TORCH NECK, LONG-LASTING HOSEPACK

/ Heavy duty components can withstand the harshest environments, resulting in long lifetimes.



WF 25I ROBACTA DRIVE

High precision in a compact design. Featuring a highly dynamic motor and quick buttons, the robacta drive is the perfect solution for all wire types and especially soft wires.

SB60 BUFFER / SPLITBOX

/ Combination splitbox and wire buffer with integrated interconnecting hosepack leading to the power source. Simple installation on j3 axis on all robots.



SPEEDNET

/ SpeedNet guarantees high speed communication allowing for more precise process control and system statuses to be called up in real time. A 100 Mbit/s data bus carries the exchange of data between components.

TPS/i

WELDING PACKAGES

/ Thanks to the modular design of the TPS/i and the Welding Packages, it is possible to create tailored solutions quickly and efficiently.

The TPS/i can be configured differently to suit your application's needs. WP Standard and WP Pulse* are available as standard, which can then be upgraded to LSC, PMC and/or CMT if required.

* TPS/i Welders Purchased from Fronius USA include Pulse and Standard welding packages.

WELDING
PACKAGE

STANDARD



/ Includes standard synergic lines for short circuit, globular, and spray arcs.

APPLICATION AREAS

- / Steel
- / Aluminum
- / Stainless

BENEFITS

- / Excellent ignition
- / Quick & Easy for general welding applications
- / Dynamic characteristic for deep, narrow penetration

WELDING
PACKAGE

LSC



/ Low Spatter Control is based on a short circuit transfer which is modified to minimize spatter and increase arc stability.

APPLICATION AREAS

- / Light-gauge sheet welding
- / Optimized for root passes
- / Better stability for out of position welding

BENEFITS

- / Less spatter (less rework)
- / Optimal weld seam appearance
- / Stabilizer to assist in maintaining penetration profile

WELDING
PACKAGE

CMT



/ A highly dynamic welding process with the most stable arc and the smallest amount of spatter.

APPLICATION AREAS

- / Steel, aluminum and stainless steel applications
- / Rapid prototyping
- / Brazing, particularly in areas of high demand for minimizing heat input and process stability
- / Special materials such as copper, zinc, and galvanized steel to aluminum
- / Excellent for thin materials

BENEFITS

- / Low Heat Input
- / Controlled droplet transfer
- / Higher Travel Speeds
- / Minimal spatter

CMT MIX

/ This mixed process is a feature of CMT and provides more control and higher heat input through defined pulse cycles

APPLICATION AREAS

- / Aluminum applications
- / Stainless steel applications

WELDING
PACKAGE

PULSE



/ The "Pulse"* process enables the user to weld using a pulsed arc with outstanding quality. In addition, the pulse synergic lines are optimized for the most common materials and shielding gas combinations.

APPLICATION AREAS

- / General industry: conventional pulsed arc for steel, aluminum, stainless steel, cored wires, and brazing.

BENEFITS

- / Easy operation
- / Low spatter
- / Optimal seam appearance

WELDING
PACKAGE

PMC

/ Versatile modified pulse waveform suitable for a wide variety of thicknesses and materials.



APPLICATION AREAS

/ Most material thicknesses; this process can be used in a customized manner and for application-specific requirements due to the stabilizers

BENEFITS

/ Higher welding speed (cost effectiveness)
/ Lower heat input than pulse
/ Uniform penetration
/ Optimal weld seam appearance
/ Low risk of undercut through use of new stabilizers
/ Easy parameter development (stabilizers)
/ Allows for out of position welding

PMC MIX

/ This is a feature of PMC which is a mixture of PMC and the Short Circuit process, which reduces overall heat input due to the short circuit phase

/ ADDITIONAL APPLICATION AREAS

/ Medium to thick materials for steel and stainless steel
/ Easier control for out of position welding with no weaving required

PMC MIX DRIVE

/ Mix Drive is another feature of PMC. A pulse welding process mixed with short circuit that uses a wire retraction movement to cool the weld pool

APPLICATION AREAS

/ For TIG like cosmetic appearances on aluminum materials and stainless steel
/ For joining heavy and light gauge sheets

BENEFITS

/ Optimal weld seam appearance
/ Good gap bridging ability

PMC's "penetration stabilizer" and "arc length stabilizer" assistance systems ensure constant penetration and high welding speeds.

PENETRATION STABILIZER

/ Due to the intelligent wire control, the current and penetration remains constant despite the contact tip to work distance.

WITHOUT PENETRATION STABILIZER

/ Stick-out 15mm
V= 10m/min
I: 300 - 250A
Steel 6mm



/ Stick-out 30mm
V= 10m/min
I: 300 - 250A
Steel 6mm



WITH PENETRATION STABILIZER

/ Stick-out 30mm
V= 10m/min
I: 300 - 250A
Steel 6mm



/ Stick-out 15mm
V= 10m/min
I: 300 - 250A
Steel 6mm



ARC LENGTH STABILIZER

/ The arc length stabilizer maintains a consistently short arc, which **allows higher welding speeds to be achieved.**



/ Video: comparison with and without arc length stabilizer.

EFFICIENCY

/ The perfect interaction of the processes (LSC, PMC and CMT) with the intelligent penetration and arc length stabilizer results in faster and higher quality production, along with reduced rejection rates.

ENHANCED QUALITY IN PRODUCTION

/ Less spatter, less rework
/ Consistent penetration

SHORTER CYCLE TIMES

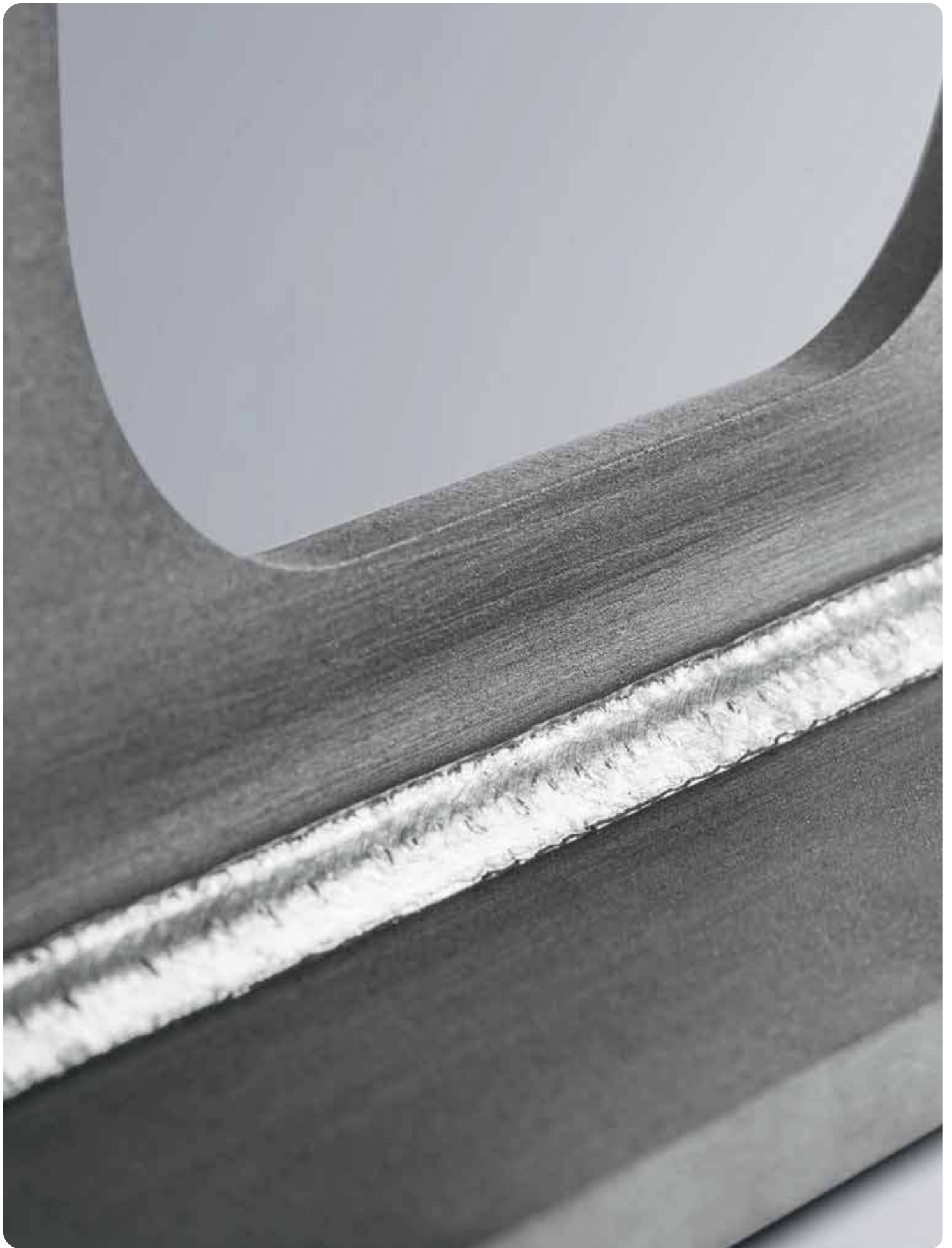
/ Rapid robot communication
/ Increased welding speeds

REDUCED SET UP TIMES



/ TeachMode - shortens the time required for component programming
/ Comfort Wire - allows easy and precise wire feeding down to the work piece

	TPS 320i	TPS 400i	TPS 500i	TPS 600i*
Mains voltage	3 x 460 / 3 x 200V / 3x 230 V			3 x 460
Mains fuse protection	35A slow-blow	35 A slow blow	63 A slow blow	63 A slow blow
Mains tolerance	+/- 15%	+/- 15%	-10% / 15%	-10% / 15%
MIG current range	3 - 320A	3 - 400A	3 - 500A	3 - 600A
MIG voltage range	14.2 - 30.0 Vdc	14.2 - 34.0	14.2 - 39.0	14.2 - 44.0
Duty cycle 104°F (40°C)	320A @ 40%	400A @ 40%	500A @ 40%	40%
	260A @ 60%	360A @ 60%	430A @ 60%	600A @ 60%
	220A @ 100%	320A @ 100%	360A @ 100%	500A @ 100%
Degree of protection	IP 23			
Dimensions (LxWxH)**	27.8" x 11.8" x 20.1"			
Weight*	94.4 lbs	103.8 lbs	103.8 lbs	103.6 lbs
* Not displayed in Catalog but available upon request				
** These values reflect the welding power supply only				



TPS/i

TPS/i PUSH SYSTEM

WIRE FEEDER

- / High dynamic feed motor
- / Supports Teach Mode
- / Digital gas flow control
- / Optional comfort feed allows faster drum wire change out
- / Color coded drive rolls
- / Rugged plastic housing isolates welding current from robot
- / Aluminum motor plate for durability

TORCH

- / Industry leading Gas-Cooled and Water-Cooled packages
- / Magnetic collision guard - accurate TCP with perfect protection
- / FSC connection assures perfect connection at the wire feeder
- / Dress pack designed for robot make and model

COOLER (IF EQUIPPED)

- / Industry leading Rotary Vane Pump (RVP)
- / Cooler is controlled by the welding power source for optimal cooling and energy savings
- / Built -in flow and coolant temperature sensor

TPS/i POWER SOURCE

- / 320, 400, 500 & 600A first in class welding power source
- / Interface module makes any TPS/i power source robot ready
- / Industry leading Teach Mode standard in all systems
- / Data port allows WeldCube connectivity
- / Capabilities expanded via software upgrades



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- / Built-in flow and coolant temperature sensor

WIRE FEEDER

- / Designed for 3/64" aluminum drum applications
- / Wire drum must be no more than 5 meters from robot base
- / Digital gas flow control - optional

TORCH

- / Water-cooled system designed for low cost small weld cell applications
- / Industry leading WF 25i Robacta drive supports PMC RIPPLE
- / Magnetic collision guard - accurate TCP with perfect protection



TPS/i

TPS/i PUSH/PULL SYSTEM

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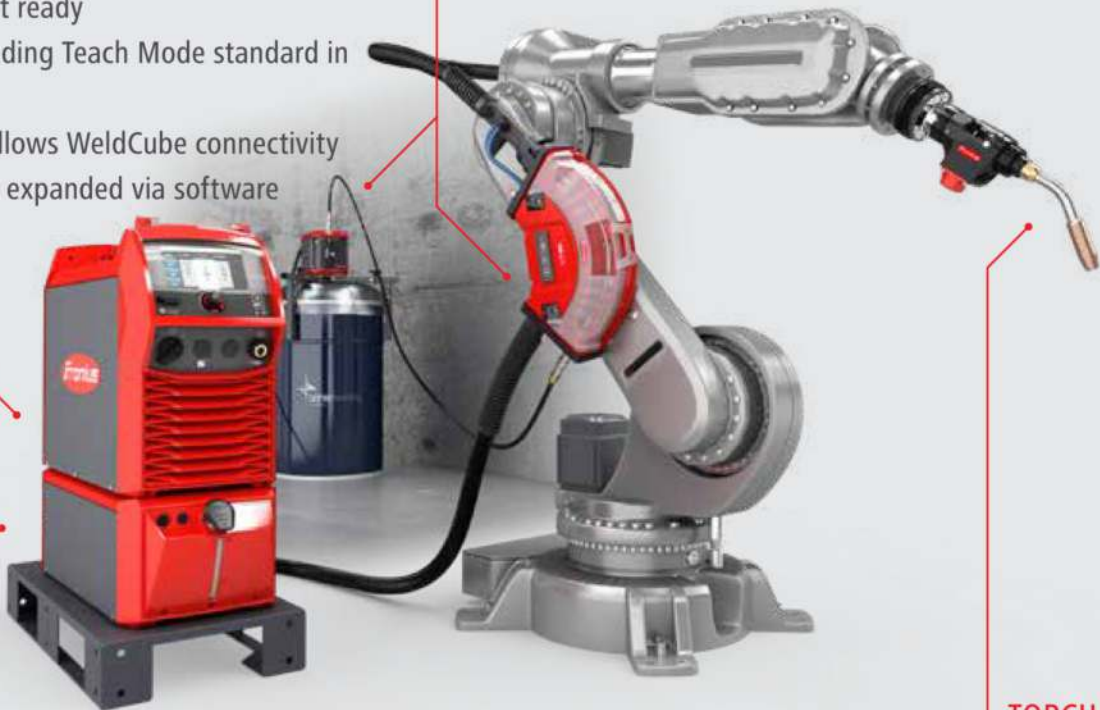
- / Industry leading Rotary Vane Pump (RVP)
- / Cooler is controlled by the welding power source for optimal cooling and energy savings
- / Built-in flow and coolant temperature sensor

WIRE FEEDER

- / SB 60i allows for Push-Pull, CMT Ready and CMT packages
- / SB60i supports PMC RIPPLE, PMC Mix-Drive and CMT
- / Integrated wire buffer and wire feeder motor control
- / Integrated connection hosepacks for extra reliability
- / WF REEL 25i provides outstanding remote wire feeding performance

TORCH

- / WF 25i Robacta drive or WF 60i CMT drive set the standard in push-pull performance
- / Magnetic collision guard - accurate TCP with perfect protection
- / Wire inch and gas controls at drive motor
- / WireSense capable



TPS/i

TPS/i CMT SYSTEM

POWER SOURCE

- / 320, 400, 500 & 600A first in class welding power source
- / Interface module makes any TPS/i power source robot ready
- / Industry leading Teach Mode standard in all systems
- / Data port allows WeldCube connectivity
- / Capabilities expanded via software upgrades

COOLER (IF EQUIPPED)

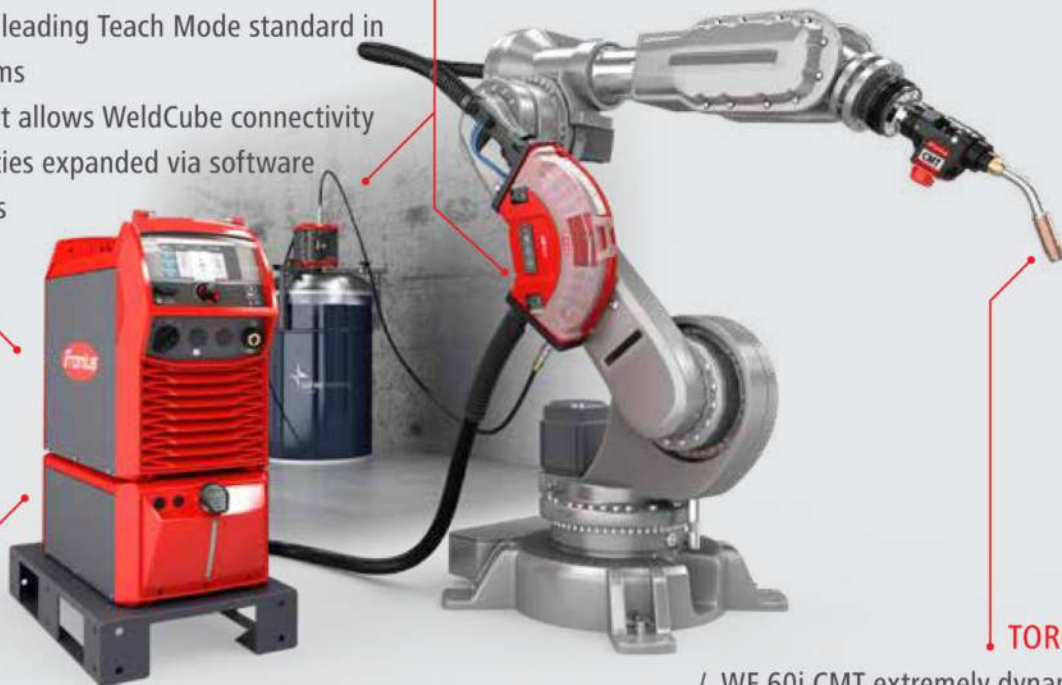
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- / Cooler is controlled by the welding power source for optimal cooling and energy savings
- / Built -in flow and coolant temperature sensor

WIRE FEEDER

- / SB60i supports PMC RIPPLE, PMC Mix-Drive and CMT
- / Integrated wire buffer and wire feeder motor control
- / Integrated connection hosepacks for extra reliability
- / WF REEL 25i provides outstanding remote wire feeding performance

TORCH

- / WF 60i CMT extremely dynamic drive motor offers
- / Magnetic collision guard - accurate TCP with perfect protection
- / Wire inch and gas controls at drive motor
- / Wire Sense capable
- / Gas-cooled for spatter free welding with 100% CO2 and steel wire



CLEANING SOLUTIONS



TC 2000 TOUCHLESS CLEANER

- / Steel and Ferritic Steel applications
- / Touchless cleaning system fits all torches and nozzles
- / 120V –Low maintenance system
- / Includes wire cutter





ROBACTA REAMER ALUMINUM

- / Aluminum applications
- / Innovative Brush Head removes spatter internal and external
- / Eliminates smearing found with internal cutters that tend to stick
- / Includes wire cutter
- / Required to use ceramic coated nozzles



ROBACTA REAMER EASY V

- / Steel & Stainless steel applications
- / Basic mechanical solution with Harting Han6P Connection for automated control (cable not included)
- / Includes wire cutter
- / Motor height must be adjusted based on application

ABB IRB 1600ID



MIG/MAG PUSH SYSTEM

- / Recommended for Steel, Stainless and Brazing applications.
- / Modular system can be upgraded for any future application.

STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
- / High Dynamic wire feeder
- / Teach Mode enabled
- / Gas-cooled and Water-cooled options
- / Spatter-free Ignition
- / Complete dress package for robotic application

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ABB IRB 1600ID



MIG/MAG POWERDRIVE SYSTEM

- / Low-cost Aluminum solution for small welding cells.
- / Water-cooled for maximum performance on Aluminum.
- / Perfect weld bead profile with PMC RIPPLE*.
- / Drum aluminum wire required not for use on spools - 5 meter maximum distance from robot.

*PMC Software required

STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
- / High Dynamic wire feeder
- / Teach Mode enabled
- / Water-cooled
- / Spatter-free Ignition and Synchropulse standard
- / Complete dress package for robotic application

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MIG/MAG PUSH PULL SYSTEM

- / Versatile system for all wire types.
- / CMT ready option.
- / Perfect weld bead profile with PMC RIPPLE* or PMC MIX-Drive*.

*PMC Software required

STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
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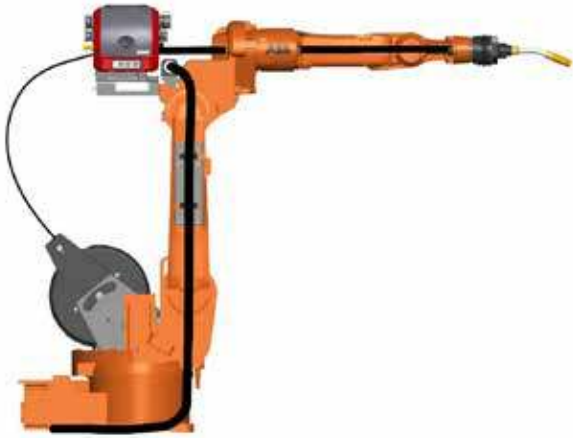
MIG/MAG CMT SYSTEM

- / Industry leading CMT technology is the benchmark in spatter-free MIG/MAG welding.
- / 2nd Generation wire feed system is designed for ease of use modular components.
- / Maximum welding process window in one machine.
- / Gas-cooled option for 100% CO2 Steel welding virtually spatter-free.

STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
- / High Dynamic wire feeder
- / Industry leading Push-Pull Technology with Cold Metal Transfer (CMT)
- / Teach Mode enabled
- / Water-cooled for all applications
- / Spatter-free Ignition and Synchropulse standard
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ABB IRB 1660ID



MIG/MAG PUSH PULL SYSTEM

- / Versatile system for all wire types.
- / CMT ready option.
- / Perfect weld bead profile with PMC RIPPLE* or PMC MIX-Drive*.

*PMC Software required

STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
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- / Industry leading Push-Pull Technology
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ABB IRB 1660ID



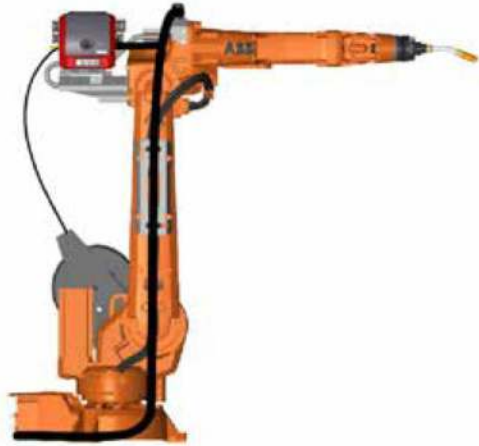
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ABB IRB 1600 CONVENTIONAL



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- / Complete dress package for robotic application

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ABB IRB 1600 CONVENTIONAL



MIG/MAG POWERDRIVE SYSTEM

- / Low-cost Aluminum solution for small welding cells.
- / Water-cooled for maximum performance on Aluminum.
- / Perfect weld bead profile with PMC RIPPLE*.
- / Drum aluminum wire required not for use on spools - 5 meter maximum distance from robot.

*PMC Software required

STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
- / High Dynamic wire feeder
- / Teach Mode enabled
- / Water-cooled
- / Spatter-free Ignition and Synchropulse standard
- / Complete dress package for robotic application

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MIG/MAG PUSH PULL SYSTEM

- / Versatile system for all wire types.
- / CMT ready option.
- / Perfect weld bead profile with PMC RIPPLE* or PMC MIX-Drive*.

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STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
- / High Dynamic wire feeder
- / Industry leading Push-Pull Technology
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MIG/MAG CMT SYSTEM

- / Industry leading CMT technology is the benchmark in spatter-free MIG/MAG welding.
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- / Maximum welding process window in one machine.
- / Gas-cooled option for 100% CO2 Steel welding virtually spatter-free.

STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
- / High Dynamic wire feeder
- / Industry leading Push-Pull Technology with Cold Metal Transfer (CMT)
- / Teach Mode enabled
- / Water-cooled for all applications
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ABB IRB 2600 CONVENTIONAL



MIG/MAG PUSH SYSTEM

- / Recommended for Steel, Stainless and Brazing applications.
- / Modular system can be upgraded for any future application.

STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
- / High Dynamic wire feeder
- / Teach Mode enabled
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ABB IRB 2600 CONVENTIONAL



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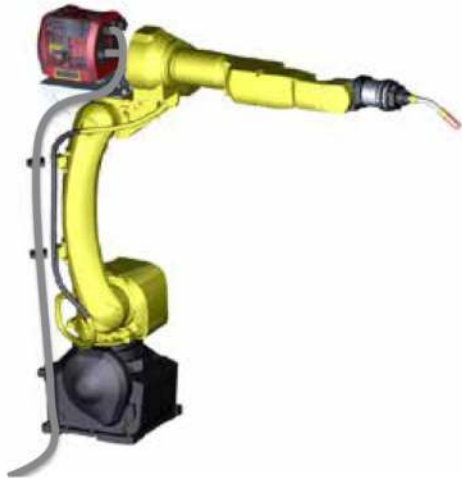


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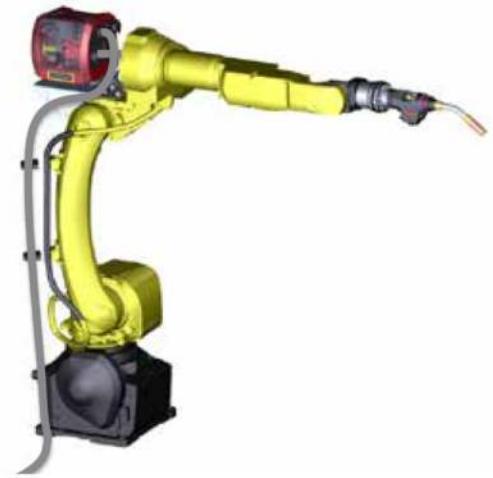


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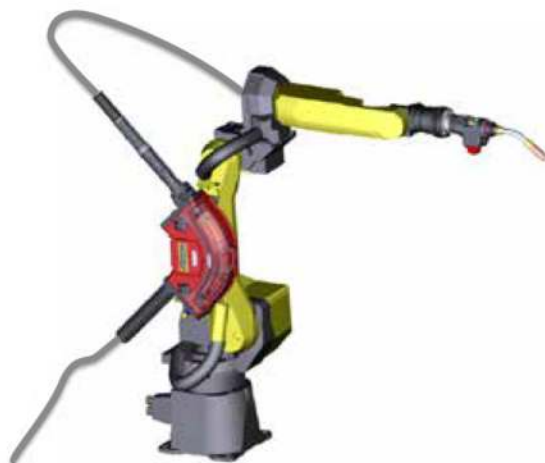
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FANUC AMD 100iC 7L



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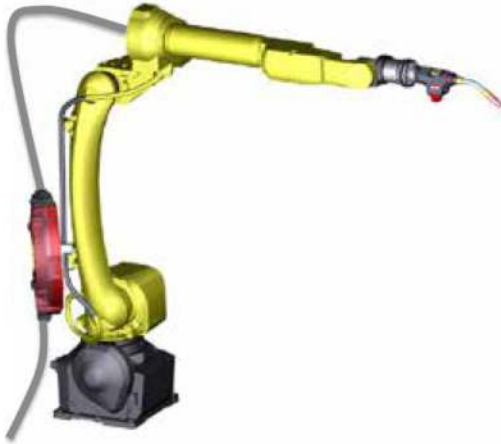
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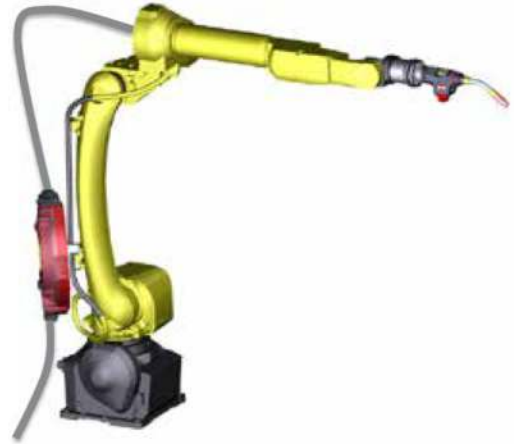
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- / Spatter-free Ignition and Synchropulse standard
- / Complete dress package for robotic application

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MIG/MAG CMT SYSTEM

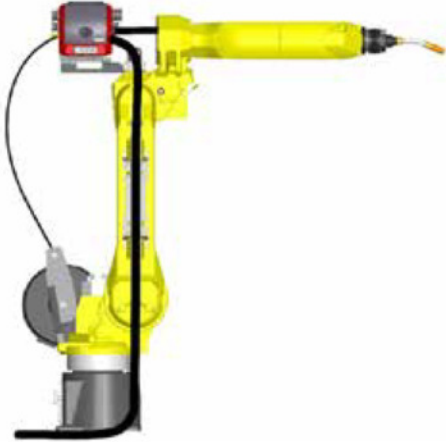
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FANUC AM 120iC



MIG/MAG PUSH SYSTEM

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- / Modular system can be upgraded for any future application.

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FANUC AM 120iC



MIG/MAG POWERDRIVE SYSTEM

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- / Water-cooled for maximum performance on Aluminum.
- / Perfect weld bead profile with PMC RIPPLE*.
- / Drum aluminum wire required not for use on spools - 5 meter maximum distance from robot.

*PMC Software required

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FANUC AM 120iC



MIG/MAG PUSH PULL SYSTEM

- / Versatile system for all wire types.
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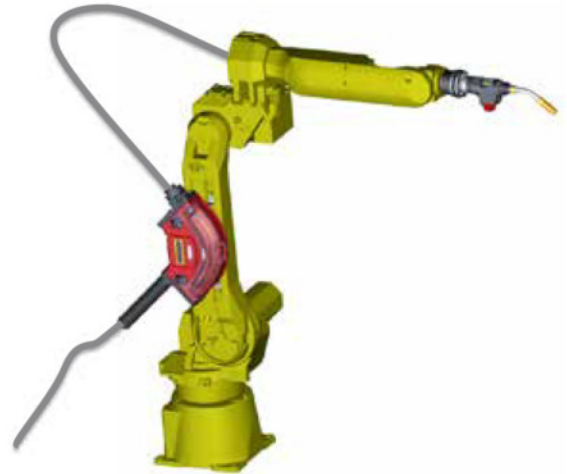
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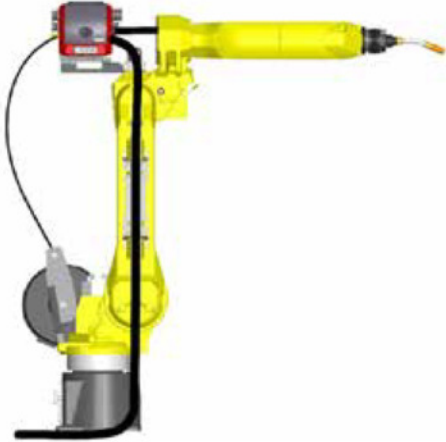
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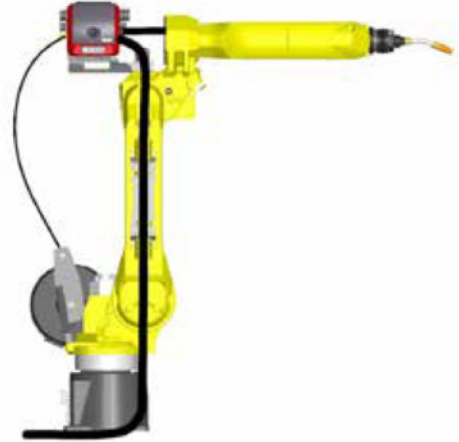


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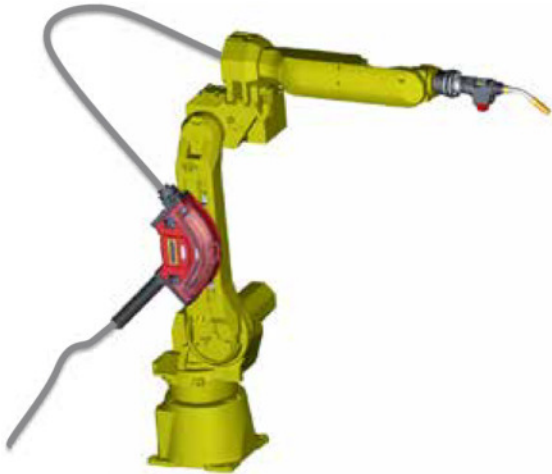
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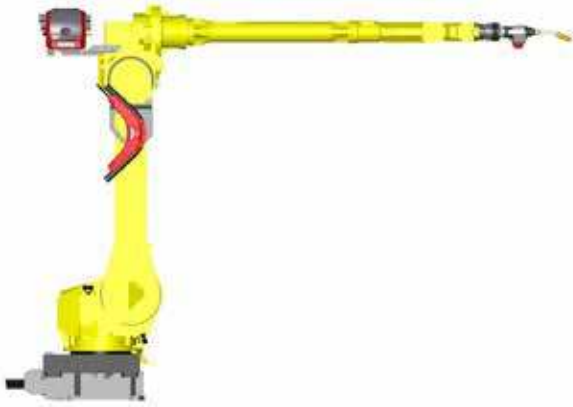
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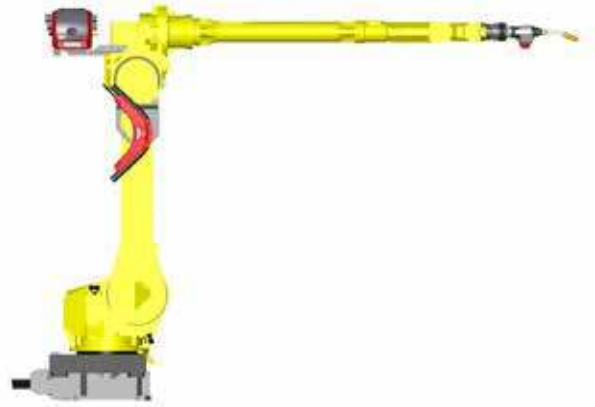
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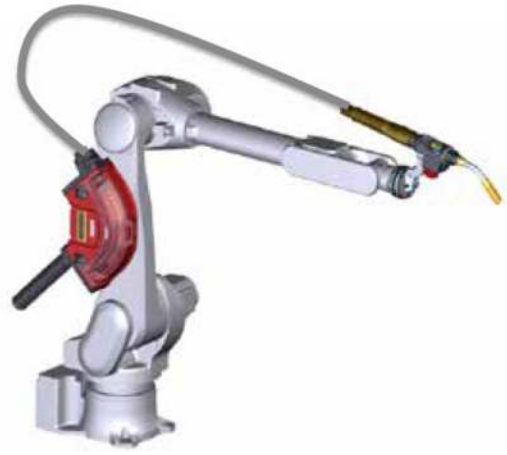
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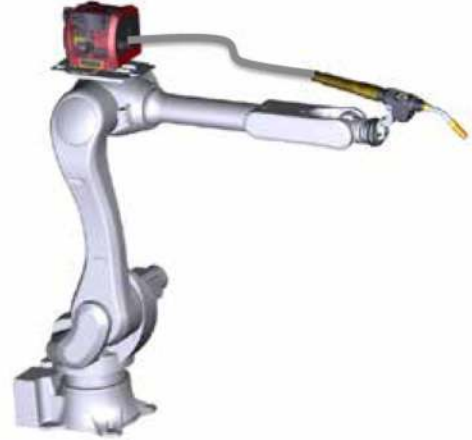
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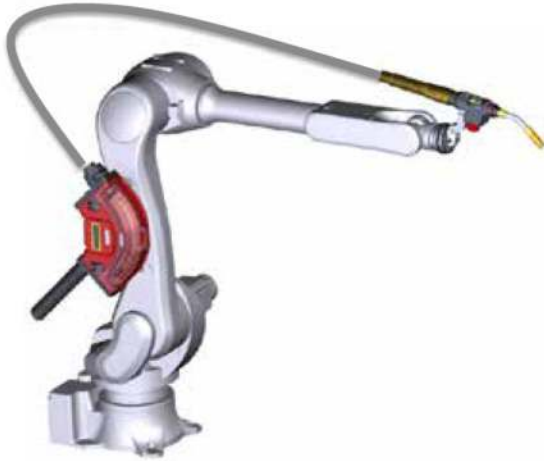
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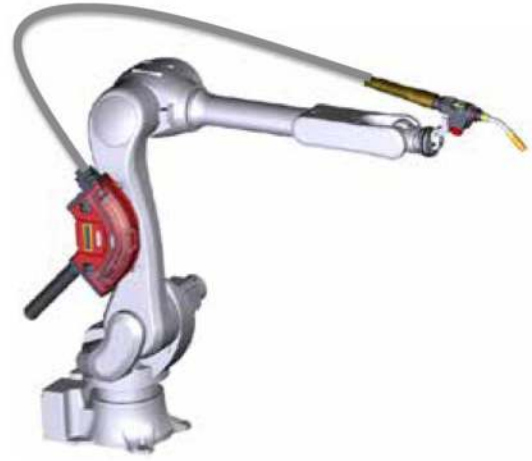
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KUKA Cybertech KR8 R2100 arc HW



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- / Spatter-free Ignition and Synchronpulse standard
- / Complete dress package for robotic application

KUKA KR6 R1820



MIG/MAG PUSH SYSTEM

- / Recommended for Steel, Stainless and Brazing applications.
- / Modular system can be upgraded for any future application.

STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
- / High Dynamic wire feeder
- / Teach Mode enabled
- / Gas-cooled and Water-cooled options
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[DOWNLOAD QUOTE REQUEST FORM](#)

KUKA KR6 R1820



MIG/MAG POWERDRIVE SYSTEM

- / Low-cost Aluminum solution for small welding cells.
- / Water-cooled for maximum performance on Aluminum.
- / Perfect weld bead profile with PMC RIPPLE*.
- / Drum aluminum wire required not for use on spools - 5 meter maximum distance from robot.

*PMC Software required

STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
- / High Dynamic wire feeder
- / Teach Mode enabled
- / Water-cooled
- / Spatter-free Ignition and Synchropulse standard
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KUKA KR6 R1820



MIG/MAG PUSH PULL SYSTEM

- / Versatile system for all wire types.
- / CMT ready option.
- / Perfect weld bead profile with PMC RIPPLE* or PMC MIX-Drive*.

*PMC Software required

STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
- / High Dynamic wire feeder
- / Industry leading Push-Pull Technology
- / Teach Mode enabled
- / Water-cooled
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KUKA KR6 R1820



MIG/MAG CMT SYSTEM

- / Industry leading CMT technology is the benchmark in spatter-free MIG/MAG welding.
- / 2nd Generation wire feed system is designed for ease of use modular components.
- / Maximum welding process window in one machine.
- / Gas-cooled option for 100% CO2 Steel welding virtually spatter-free.

STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
- / High Dynamic wire feeder
- / Industry leading Push-Pull Technology with Cold Metal Transfer (CMT)
- / Teach Mode enabled
- / Water-cooled for all applications
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YASKAWA AR1440



MIG/MAG PUSH SYSTEM

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YASKAWA AR1440



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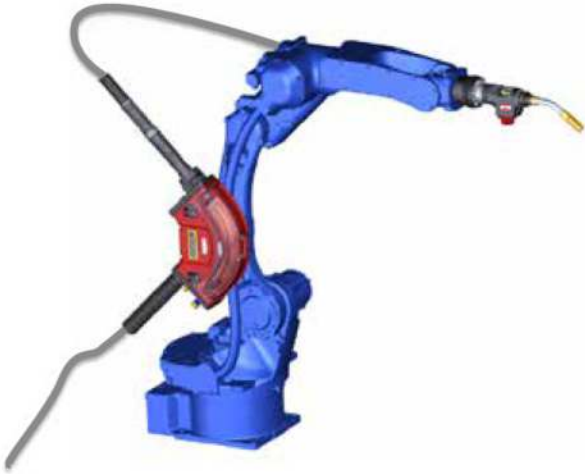
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YASKAWA AR1440



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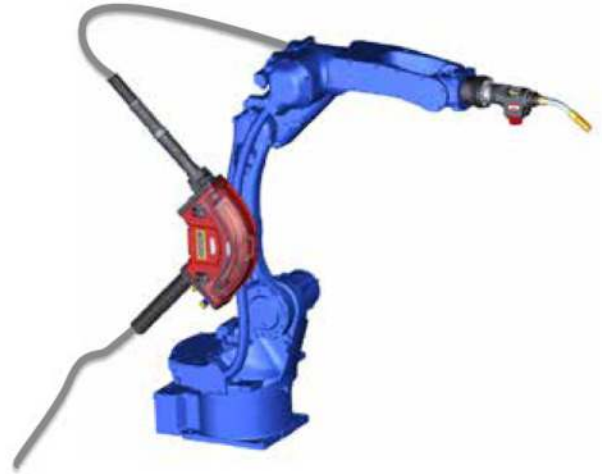
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YASKAWA AR1440



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MIG/MAG PUSH SYSTEM

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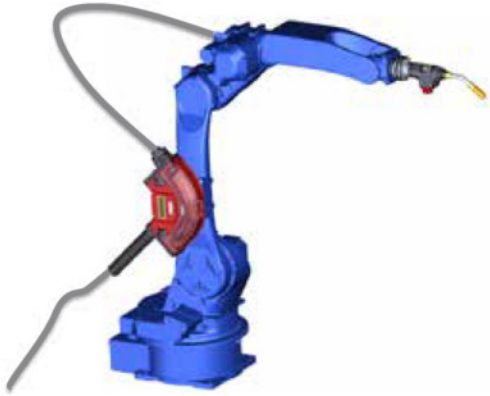
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MIG/MAG PUSH PULL SYSTEM

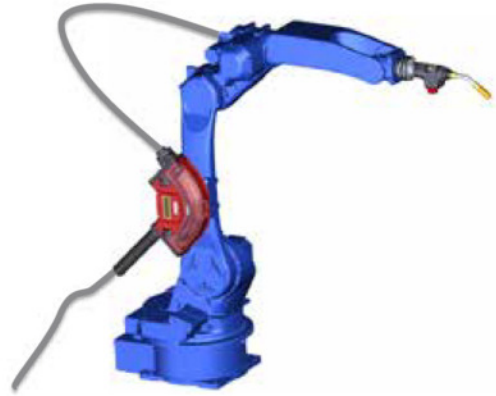
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*PMC Software required

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- / Water-cooled
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MIG/MAG CMT SYSTEM

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- / Complete dress package for robotic application

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YASKAWA AR2010



MIG/MAG PUSH SYSTEM

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STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
- / High Dynamic wire feeder
- / Teach Mode enabled
- / Gas-cooled and Water-cooled options
- / Spatter-free Ignition
- / Complete dress package for robotic application

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YASKAWA AR2010



MIG/MAG POWERDRIVE SYSTEM

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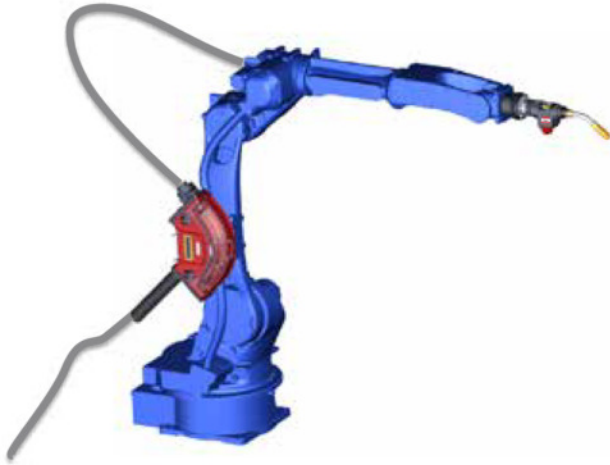
*PMC Software required

STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
- / High Dynamic wire feeder
- / Teach Mode enabled
- / Water-cooled
- / Spatter-free Ignition and Synchropulse standard
- / Complete dress package for robotic application

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YASKAWA AR2010



MIG/MAG PUSH PULL SYSTEM

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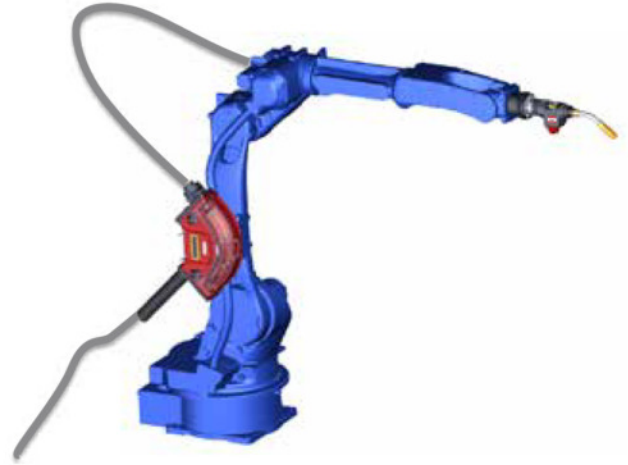
*PMC Software required

STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
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- / Industry leading Push-Pull Technology
- / Teach Mode enabled
- / Water-cooled
- / Spatter-free Ignition and Synchronpulse standard
- / Complete dress package for robotic application

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YASKAWA AR2010



MIG/MAG CMT SYSTEM

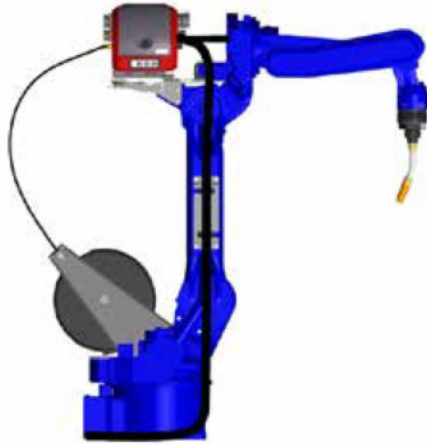
- / Industry leading CMT technology is the benchmark in spatter-free MIG/MAG welding.
- / 2nd Generation wire feed system is designed for ease of use modular components.
- / Maximum welding process window in one machine.
- / Gas-cooled option for 100% CO2 Steel welding virtually spatter-free.

STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
- / High Dynamic wire feeder
- / Industry leading Push-Pull Technology with Cold Metal Transfer (CMT)
- / Teach Mode enabled
- / Water-cooled for all applications
- / Spatter-free Ignition and Synchronpulse standard
- / Complete dress package for robotic application

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YASKAWA MA1400



MIG/MAG PUSH SYSTEM

- / Recommended for Steel, Stainless and Brazing applications.
- / Modular system can be upgraded for any future application.

STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
- / High Dynamic wire feeder
- / Teach Mode enabled
- / Gas-cooled and Water-cooled options
- / Spatter-free Ignition
- / Complete dress package for robotic application

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YASKAWA MA1400



MIG/MAG POWERDRIVE SYSTEM

- / Low-cost Aluminum solution for small welding cells.
- / Water-cooled for maximum performance on Aluminum.
- / Perfect weld bead profile with PMC RIPPLE.*
- / Drum aluminum wire required not for use on spools - 5 meter maximum distance from robot.

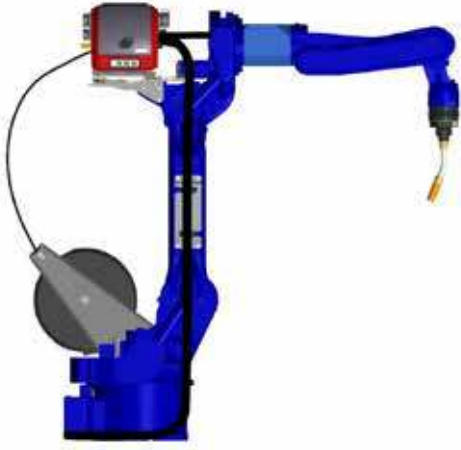
*PMC Software required

STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
- / High Dynamic wire feeder
- / Teach Mode enabled
- / Water-cooled
- / Spatter-free Ignition and Synchropulse standard
- / Complete dress package for robotic application

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YASKAWA MA1550



MIG/MAG PUSH SYSTEM

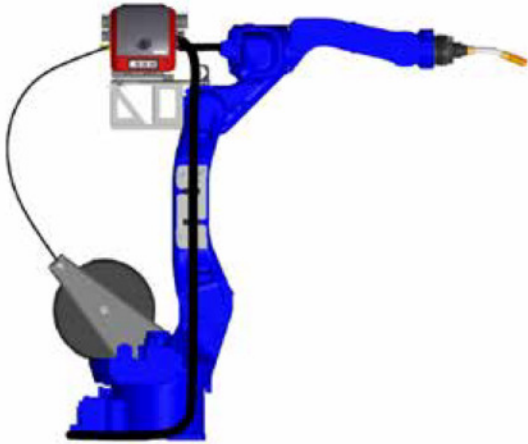
- / Recommended for Steel, Stainless and Brazing applications.
- / Modular system can be upgraded for any future application.

STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
- / High Dynamic wire feeder
- / Teach Mode enabled
- / Gas-cooled and Water-cooled options
- / Spatter-free Ignition
- / Complete dress package for robotic application

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YASKAWA MA1440



MIG/MAG PUSH SYSTEM

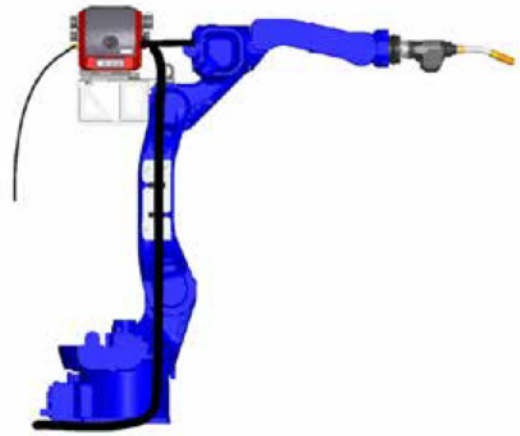
- / Recommended for Steel, Stainless and Brazing applications.
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STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
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YASKAWA MA1440



MIG/MAG POWERDRIVE SYSTEM

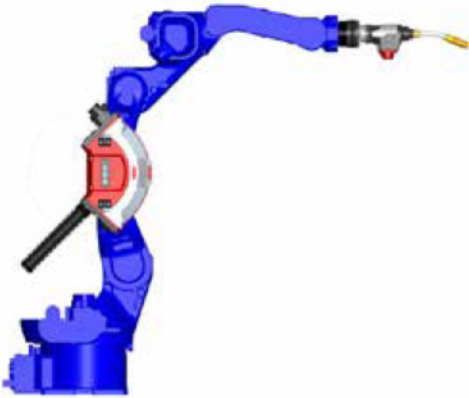
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MIG/MAG PUSH PULL SYSTEM

- / Versatile system for all wire types.
- / CMT ready option.
- / Perfect weld bead profile with PMC RIPPLE* or PMC MIX-Drive*.

*PMC Software required

STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
- / High Dynamic wire feeder
- / Industry leading Push-Pull Technology
- / Teach Mode enabled
- / Water-cooled
- / Spatter-free Ignition and Synchropulse standard
- / Complete dress package for robotic application



MIG/MAG CMT SYSTEM

- / Industry leading CMT technology is the benchmark in spatter-free MIG/MAG welding.
- / 2nd Generation wire feed system is designed for ease of use modular components.
- / Maximum welding process window in one machine.
- / Gas-cooled option for 100% CO2 Steel welding virtually spatter-free.

STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
- / High Dynamic wire feeder
- / Industry leading Push-Pull Technology with Cold Metal Transfer (CMT)
- / Teach Mode enabled
- / Water-cooled for all applications
- / Spatter-free Ignition and Synchropulse standard
- / Complete dress package for robotic application

YASKAWA MA2010



MIG/MAG PUSH SYSTEM

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MIG/MAG POWERDRIVE SYSTEM

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MIG/MAG PUSH PULL SYSTEM

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- / Complete dress package for robotic application

YASKAWA MH24



MIG/MAG PUSH SYSTEM

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- / Modular system can be upgraded for any future application.

STANDARD PACKAGE INCLUDES

- / CV and Pulse machine
- / High Dynamic wire feeder
- / Teach Mode enabled
- / Gas-cooled and Water-cooled options
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YASKAWA MH24



MIG/MAG POWERDRIVE SYSTEM

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No image
available
Requires
Motoman p/n
773617A305

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YASKAWA MA3120

No image
available
Requires
Motoman p/n
773617A305

This system
utilizes the
SB 500i not
the SB60i

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What's your
welding challenge?

Let's get connected.

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TECHNOLOGIES.

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OPTIONS

TOOL KITS



/ TOOL KITS

UNIQUE TOOLS FOR TPS/i ROBOTIC SYSTEMS

TOOL KITS

UNIQUE TOOLS FOR TPS/I ROBOTIC SYSTEMS

POWER DRIVE AND PUSH PULL SYSTEMS

CONFIGURATION #	Description
T28437	Contact tip tool, Fitting wrench for hollow wrist systems, Torx torque wrench for torch drive rolls.

CMT READY / CMT SYSTEMS

CONFIGURATION #	Description
T28438	Contact tip tool, Fitting wrench for hollow wrist systems, Socket torque wrench for torch drive rolls, Torx torque wrench for guide tubes

TORCH EXAMINATION AND CORRECTION KIT


The testing system is used to check TPS/I robot welding torches for dimensional deviations. TPS/I torch deviations can be corrected up to 5mm utilizing the torch examination and correction kit. Please select one based on system type.


CONFIGURATION #	SYSTEM TYPE
T28440	Gas cooled Push Systems
T28442	Water cooled Systems
T28443	Gas cooled CMT Systems


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— Let's get connected.

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SOFTWARE



/ OPTIONAL SOFTWARE LICENSES

OPTIONAL SOFTWARE LICENSES

ONE LICENSE CODE WILL WORK FOR A SINGLE TPS/i SYSTEM.

QUALITY MONITORING PACKAGE

Quality Monitoring can be added to any TPS/i package by selecting the option on the Robotic Download sheets. This package includes three licenses for the TPS/i System.

QUALITY MONITORING PACKAGE	DESCRIPTION
OPT/i Jobs	This function package allows the user to edit jobs on the TPS/I Smartmanager (Local website of the welder). Individual jobs can be imported and exported. Jobs can also be exported in CSV format for spreadsheets.
OPT/i Documentation	Allows for actual value documentation. This can also be exported into a CSV format.
Opt/i Limit Monitoring	Allows individual Jobs to have set welding parameter limitations. If a limit is exceeded the user can setup the welder to display an Error, a Warning, or take no action. Values that exceed the limitations are also logged in the TPS/I's documentation logbook.

WIRESENSE (For CMT and CMT ready systems only)

PART NUMBER #	DESCRIPTION
4,067,020	Wire sense uses the wire electrode to scan the workpiece in order to detect work piece edges or contours. Detection is possible on thin materials, and on lap joints. The measurement of edge heights allows for detection of component irregularities such as gaps. When detected the system can be setup to adjust welding parameters automatically. This feature requires proper implementation into the robot control to work successfully, and may require robot OEM assistance.

OPC & MWQTT

All customized programming has to be done / organized by the customer and is NOT included within a Fronius data interface solutions.

PART NUMBER #	DESCRIPTION
4,067,023	OPT/i OPC-UA - A read/write API for interaction with 3rd party applications
4,067,024	OPT/i MQTT - A read only API for data collection and data visualization for 3rd party applications.

ADDITIONAL WELD PROCESS PACKAGES

PART NUMBER #	DESCRIPTION
4,067,012	OPT/i CMT Cycle Step (For CMT Systems only) - Provides additional parameters to the CMT process which can define spot size and amount of welding droplets per spot. This process is excellent for thin sheets, and additive welding applications.

For more information, please contact your local representative or email sales.usa@fronius.com

PROTECTIVE EQUIPMENT & ACCESSORIES



/ WELDING HELMETS
/ WELDING JACKETS





VIZOR CONNECT PRE-DARKENING BLUETOOTH WELDING HELMET

- / Bluetooth connection*
- / True Color view
- / Panorama field of view
- / Automated shade level (5 to 12)
- / Lithium-polymer battery can be charged via USB-C cable, supported by solar cells
- / Shade level 2.5 in passive mode
- / Grind mode

*Compatible with TPS/i 320 - 600 (from sn 29200502 and 4,067,101 NFC/BLE/WIFI 24 inside (firmware version 2.0.1), MagicWave230i and TransTIG 230i

Part number:

42,0510,0312 Vizor Connect

/ MSRP: \$673.55

For accessories and wear parts go to next page.



FRONIUS VIZOR 4000 PROFESSIONAL* WELDING HELMET

- / Sensor slide: detection angle of ambient light from 80° to 60°
- / Auto mode, SL 5 to SL 13
- / Grinding mode, remains light (protection level 4)
- / Protection level ranges: SL 5-9 and SL 9-13
- / Sensitivity controller: adapts the sensitivity of the sensors to the surroundings and the individual requirements
- / Real color display
- / Soft Delay, provides the option to open the cartridge in a fluid motion from dark to light using the new dimming function

Part number:

42,0510,0197 - Vizor 4000 Professional

/ MSRP \$560.00

For accessories and wear parts go to next page.



FAZOR 1000 Plus AUTODARKENING WELDING HELMET

- / Permanent protection from UV / IR radiation
- / Continuous shade-level settings (9 to 13)
- / Dark-to-light delay
- / Sensitivity controller
- / Battery-change for LC display
- / Total weight 1.09 lb

Part number:

42,0510,0110 - Fazor 1000 Plus

/ MSRP \$261.00

For accessories and wear parts go to next page.



WELDING JACKET BASIC BASIC WELDING JACKET BY BIZWELD

- / Flame retardant
- / All day welding protection and comfort
- / Secure stud fasteners'
- / Chest pockets
- / Concealed mobile phone pocket
- / Fabric: Bizweld 330g, 100% cotton with a flame resistant finish

Part number:

42,0440,0235 - Welding Jacket Basic

/ MSRP: \$54.00

ACCESSORIES

Part No.	Description	MSRP
42,0510,0020	Vizor chest protection	\$42.66
42,0510,0100	Inside cover lens for Vizor Pro, Plus and Fazor: shade level 1,0 (5 pcs/set)	\$14.04
42,0510,0101	Inside cover lens for Vizor Pro, Plus and Fazor: shade level 1,5 (5 pcs/set)	\$14.04
42,0510,0102	Inside cover lens for Vizor Pro, Plus and Fazor: shade level 2,0 (5 pcs/set)	\$14.04
42,0510,0317	Front cover lens for Vizor Connect (5 pcs/set)	\$47.24
42,0510,0315	Inside cover lens Vizor connect (5 pcs per set)	\$18.90
42,0510,0322	Inside cover lens Vizor connect 1.00 diopter	\$44.55
42,0510,0323	Inside cover lens Vizor connect 1.50 diopter	\$44.55
42,0510,0324	Inside cover lens Vizor Connect 2.00 diopter	\$44.55
42,0510,0325	Inside cover lens Vizor Connect 2.50 diopter	\$44.55
42,0510,0336	Inside cover lens Vizor Connect shade level 1.0 (5pcs per set)	\$62.00
42,0510,0345	Inside cover lens Vizor Connect shade level 2.0 (5pcs per set)	\$62.00


WEAR PARTS VIZOR / FAZOR / VIZOR CONNECT

Part No.	Description	MSRP
42,0510,0111	Cover lens Fazor (2 pcs per set) 1 pk	\$8.44
42,0510,0112	Cover lens Fazor (5 pcs per set) 1 pk	\$16.20
42,0510, 0018	Head band Vizor/Fazor/ Vizor Connect (2 pcs per set)	\$7.02
42,0510,0113	Cartridge Fazor 1000 Plus	\$184.00
42,0510,0200	Comfort band (headband back)	\$8.84
42,0510,0326	Headband complete Vizor connect /Grind Mask	\$36.45
42,0510,0327	USB-C cable Vizor Connect (2 pcs per set)	\$12.02
42,0510,0329	USB-C cover cap Vizor Connect (2 pcs per set)	\$3.51


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