

# MOD-WELD®



## ROBOTIC WELDING



COBOT



ARC MATE

**FANUC**





# MOD-WELD

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### Why choose MOD-WELD?

- Produce more with the labor you have
- FANUC intelligent options including:
  - iRVision
  - Through-ARC Seam Tracking
  - Touch Sensing
- Double your throughput, quicker to market
- Better accuracy and consistent welds
- Higher productivity and quality
- FANUC “Service First” – Lifetime Support

### MAC Series

- FANUC CRX cobot
- Ease of programming with APT Clever Torch
- Miller Auto-Continuum™ or Fronius TPS/i
- Quick to deploy and setup
- Safe for human collaborative interaction
- FANUC CRX “8 Years Zero Maintenance”



### MATE Series

- FANUC ARC Mate Series robot
- Rockwell controls
- Miller Auto-Continuum™ or Fronius TPS/i
- High volume production
- Automated fixture ready
- Ease of use operator interface
- Many Positioner options available

### MAC Series

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### MATE Series

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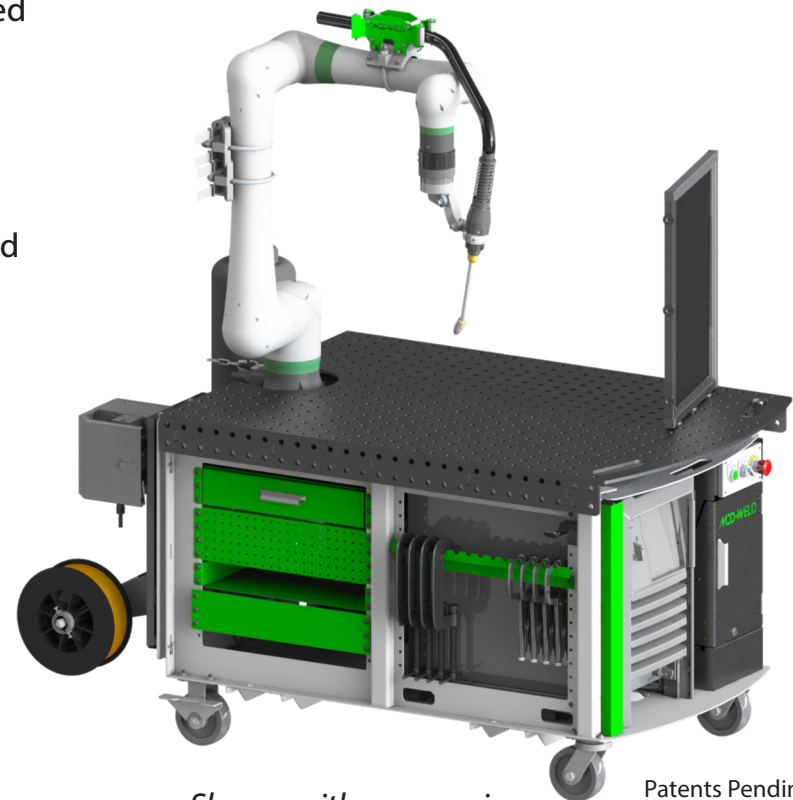


# COBOT MAC CART

## COLLABORATIVE ROBOT FOR ARC WELDING

The MOD-WELD is designed and manufactured around the FANUC CRX-10iA/L industrial collaborative robot. The CRX models come from a long line of reliable FANUC products that are extremely easy to setup, program, and operate – even if it's your first robot.

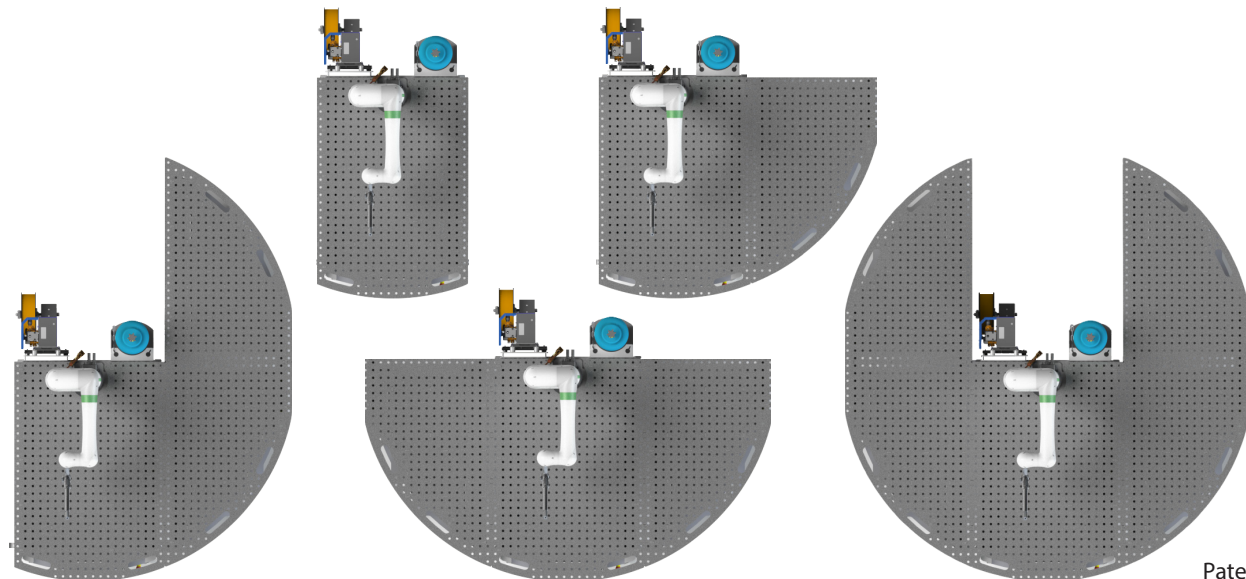
You pick the choice of power supply: Miller Auto-continuum or Fronius TPS/i.



Shown with accessories Patents Pending

## Customize to your needs

Add up to 4 side carts in different configurations for customizing your work space.



Patents Pending

# MOD-WELD

## FEATURES & SPECS

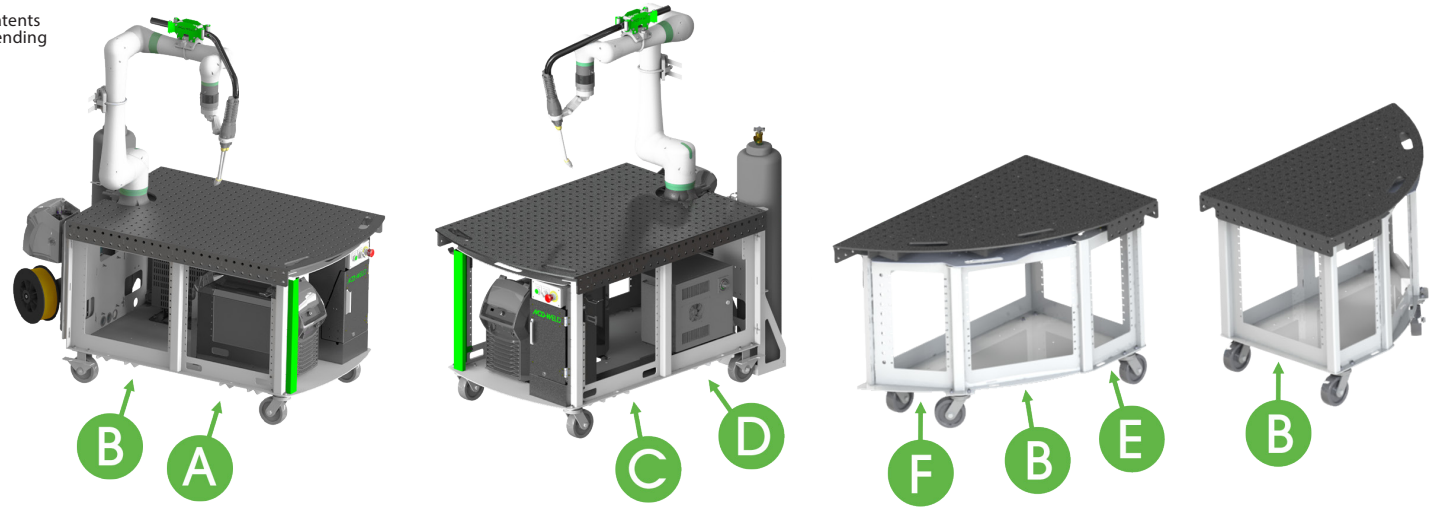
MOD-WELD Cart Specs		Power Supply Choice		
Exclusive with FANUC Cobot				
SYSTEM MODEL	COBOT 10iA/L		FRONIUS 400	MILLER 350
6-Axis Robot	FANUC CRX-10iA/L	Power Supply	TPS/i-400	Auto-Continuum™ 350
Robot Reach	55"	Main Voltage	200-230V / 380-460 3-PH	230-575 V 3-PH
Robot Power	110v 20 amp	Torch	22.5 degree torch angle	
Robot Programming	Tablet Only	Standard Wire Size	.035 wire	
Robot Torch Guidance	Clever Torch Teach Guidance	Welding Type	visit <a href="http://fronius.com">fronius.com</a>	visit <a href="http://millerwelds.com">millerwelds.com</a>
Torch Roller Dress-out	MOD-WELD Custom			
Cart Footprint	40" W x 78" D			
Cart Table Work Space	40" W x 58-1/2" D			
Cart Table Hole Size	16mm Dia, 2"x2" Hole Pattern			
Approx Weight w/ Welder	1300 lbs			
Additional Options & Accessories				
PART NUMBER	PART DESCRIPTION		DESCRIPTION	DESCRIPTION
SCLFRR	Side Cart Left Front or Right Rear. Work space 34 3/8" W x 54" D with 16mm holes	HHT *	FHHT Fronius hand held torch as an addition to the robot torch	MHHT Miller hand held torch as an addition to the robot torch
SCRFRR	Side Cart Right Front or Left Rear. Work space 34 3/8" W x 54" D with 16mm holes	Power Supply Upgrade*	TPS/i-500 and 600	Auto-Continuum™ 500
HWST	Heavy Weld Seam Track Software	COOLER *	Fronius Chiller	Miller Chiller
Cart Accessories	See Pages 6 & 7	SRVT (servo torch) *	Fronius Push/Pull Ready System	FANUC Servo with Binzel Gun
Custom Weld Fixtures	Send Drawings for Quote	CTRM (Auto Reamer)	Fronius	Tregaskiss
		Pulse	Weld Process Pulse	

Base model is configured to weld steel (hard metal), soft metals require additional options marked with \*

FANUC's collaborative robots are easy to teach and deploy, which puts them at the forefront of the industry for welding application efficiency. This makes them the perfect fit for high-mix, low-volume production while maintaining high quality welds.

# MAC CART ACCESSORIES

Patents Pending



Side carts have locations for "wide" and "narrow" accessories  
Accessories are built with 14 ga steel, powder coated for durability.

## Drawers and Shelves

All drawers have ball bearing slides for smooth function.

DW1025		DW2025	
	Shallow drawer - Narrow Inner Dimensions: 8.8"W x 14.8"L x 2.4"H		Shallow drawer - Wide Inner Dimensions: 18.8"W x 14.8"L x 2.4"H
DW1040		DW2040	
	Medium drawer - Narrow Inner Dimensions: 8.8"W x 14.8"L x 3.9"H		Medium drawer - Wide Inner Dimensions: 18.8"W x 14.8"L x 3.9"H
DIVS10		DIVS20	
	Drawer divider set for narrow drawers Fits in: DW1025, DW1040		Drawer divider set for wide drawers Fits in: DW2025, DW2040
SH1025		SH2025	
	Storage shelf - Narrow 10"W x 15.75"L x 2.5"H		Storage shelf - Wide 20"W x 15.75"L x 2.5"H
SCSH10		SCSH20	
	Spray can storage shelf - Narrow 12"W x 3.625"D		Spray can storage shelf - Wide 22"W x 3.625"D

## Collaborative Positioners

Collaborative Manual Index Positioner for Collaborative Robot Welding

MIT40



Shown with WS 1826 Weld Screen

Shown on Mod-Weld Cart

Heavy Duty locking w/ hardened blocks

- Manual index positioning table with locking slide in 4 locations.
- Built with a 5/8 steel plate with fixture holes on 2" centers.
- Industrial heavy duty bearing for ease of rotation with a load.
- Grounding block engaged at all time includes a 6' grounding cable.

## Storage, Bin, Clamps and Pins

BINP10		BINP20	
	Bin box panel - Narrow, Includes 2 bins Bin size: 4 1/8"W x 5 3/8" L x 3" H		Bin box panel - Wide, Includes 4 bins Bin size: 4 1/8"W x 5 3/8" L x 3" H
CR1007		CR2013	
	Clamp Hanger - Narrow 7 clamp notches		Clamp Hanger - Wide 13 clamp notches
PB1006		PB2006	
	Pegboard Panel - Narrow Ø.25 holes, 1" spacing, Hole array 10 x 6		Pegboard Panel - Wide Ø.25 holes, 1" spacing, Hole array 20 x 6

## Blank Covers

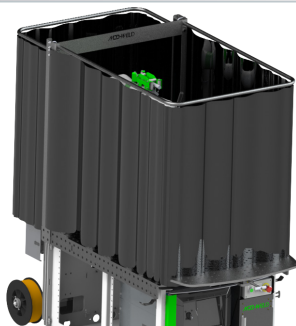
BINP10		BINP20	
	Blank plate - Narrow 10" x 4-1/2" Tall		Blank plate - Wide 20" x 4-1/2" Tall

## HOLDERS

AGHG45	
	Angle Grinder Holder with Cord Wrap Fits 4-1/2" Grinder

## Safety

PCMC-8



Pull curtain - #8 plastic curtain  
Where the curtain comes together there are magnets to hold it closed  
Note: This is a safety shield from arc, not a safety shield from the robot

WS1826



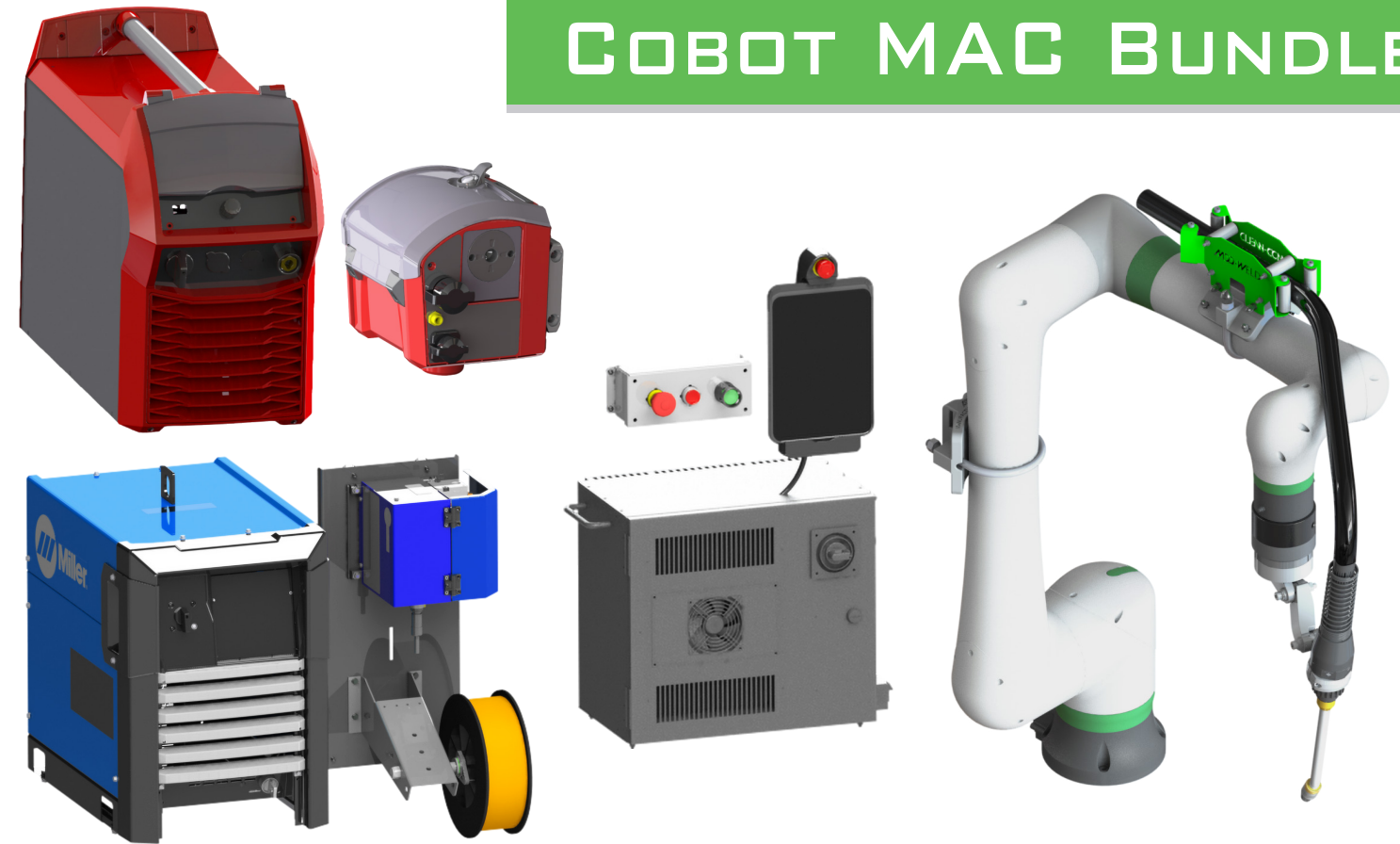
Tabletop Magnet Screen - #8 Dark Shield  
Mounts in 2 directions, 18" x 26"



# COBOT MAC TRAVELER

- Mobile Base welded construction powder coat finish with Stabilizer Outriggers
- FANUC CRx Collaborative Robot and APT Clever Torch teach button software package ready to teach and weld.
- APT Clever Torch for ease of movement and teaching the robot.
- Gas bottle storage on mobile base
- Push the Robot & mobile Base up to the work or existing table
- 6" Casters for ease of movement
- Power Source Choice of:
  - Miller Auto-Continuum with torch & wire feed
  - Fronius TPS/i with torch & wire feed





# COBOT MAC BUNDLE



MOD-WELD Traveler Specs		Power Supply Choice		
Exclusive with <b>FANUC</b> Cobot			<b>Fronius</b>	<b>Miller</b>
<b>SYSTEM MODEL</b>	<b>TRAVELER-MW25-350</b>		<b>FRONIUS 400</b>	<b>MILLER 350</b>
6-Axis Robot	FANUC CRX-25iA	<b>Power Supply</b>	TPS/i-400	Auto-Continuum™ 350
Robot Reach	74"	<b>Main Voltage</b>	200-230V / 380-460 3-PH	230-575 V 3-PH
Robot Power	110v 20 amp	<b>Torch</b>	22.5 degree torch angle	
Robot Programming	Tablet Only	<b>Standard Wire Size</b>	.035 wire	
Robot Torch Guidance	Clever Torch Teach Guidance	<b>Welding Type</b>	visit <a href="http://fronius.com">fronius.com</a>	visit <a href="http://millerwelds.com">millerwelds.com</a>
Torch Roller Dress-out	MOD-WELD Custom			
Footprint (for mobility)	44" W x 76-1/2" L			
Footprint (outriggers deployed)	40" W x 58-1/2" D			
Approx Weight w/ Welder	1700 lbs			
Additional Options & Accessories				
PART NUMBER	PART DESCRIPTION		DESCRIPTION	DESCRIPTION
HWST	Heavy Weld Seam Track Software	<b>HHT *</b> (in addition to the robot torch)	FHHT - Fronius hand held torch	MHHT - Miller hand held torch
Custom Weld Fixtures	Send Drawings for Quote	<b>Power Supply Upgrade *</b>	TPS/i-500 and 600	Auto-Continuum™ 500
		<b>COOLER *</b>	Fronius Chiller	Miller Chiller
		<b>SRVT (Servo Torch) *</b>	Push/Pull Ready System	FANUC Servo w/ Binzel Gun
		<b>CTRM (Auto Reamer)</b>	Fronius	Tregaskiss
		<b>Pulse</b>	Weld Process Pulse	

Base model is configured to weld steel (hard metal), soft metals require additional options marked with \*

MOD-WELD Bundle Specs			Power Supply Choice		
Exclusive with <b>FANUC</b> Cobot				<b>Fronius</b>	<b>Miller</b>
<b>SYSTEM MODEL</b>	<b>BUNDLE 10 350/400</b>	<b>BUNDLE 25 350/400</b>		<b>FRONIUS 400</b>	<b>MILLER 350</b>
6-Axis Robot	FANUC CRX-10iA/L	FANUC CRX-25iA	<b>Power Supply</b>	TPS/i-400	Auto-Continuum™ 350
Robot Reach	55"	74"	<b>Main Voltage</b>	200-230V / 380-460 3-PH	230-575 V 3-PH
Robot Power	110v 20 amp		<b>Torch</b>	22.5 degree torch angle	
Robot Programming	Tablet Only		<b>Standard Wire Size</b>	.035 wire	
Robot Torch Guidance	Clever Torch Teach Guidance		<b>Welding Type</b>	visit <a href="http://fronius.com">fronius.com</a>	visit <a href="http://millerwelds.com">millerwelds.com</a>
Torch Roller Dress-out	MOD-WELD Custom				
Additional Options & Accessories					
PART NUMBER	PART DESCRIPTION		DESCRIPTION	DESCRIPTION	
HWST	Heavy Weld Seam Track Software	<b>HHT (in addition to the robot torch) *</b>	FHHT - Fronius hand held torch	MHHT - Miller hand held torch	
Custom Weld Fixtures	Send Drawings for Quote	<b>Power Supply Upgrade *</b>	TPS/i-500 and 600	Auto-Continuum™ 500	
		<b>COOLER *</b>	Fronius Chiller	Miller Chiller	
		<b>SRVT (Servo Torch) *</b>	Push/Pull Ready System	FANUC Servo w/ Binzel Gun	
		<b>CTRM (Auto Reamer)</b>	Fronius	Tregaskiss	
		<b>Pulse</b>	Weld Process Pulse		

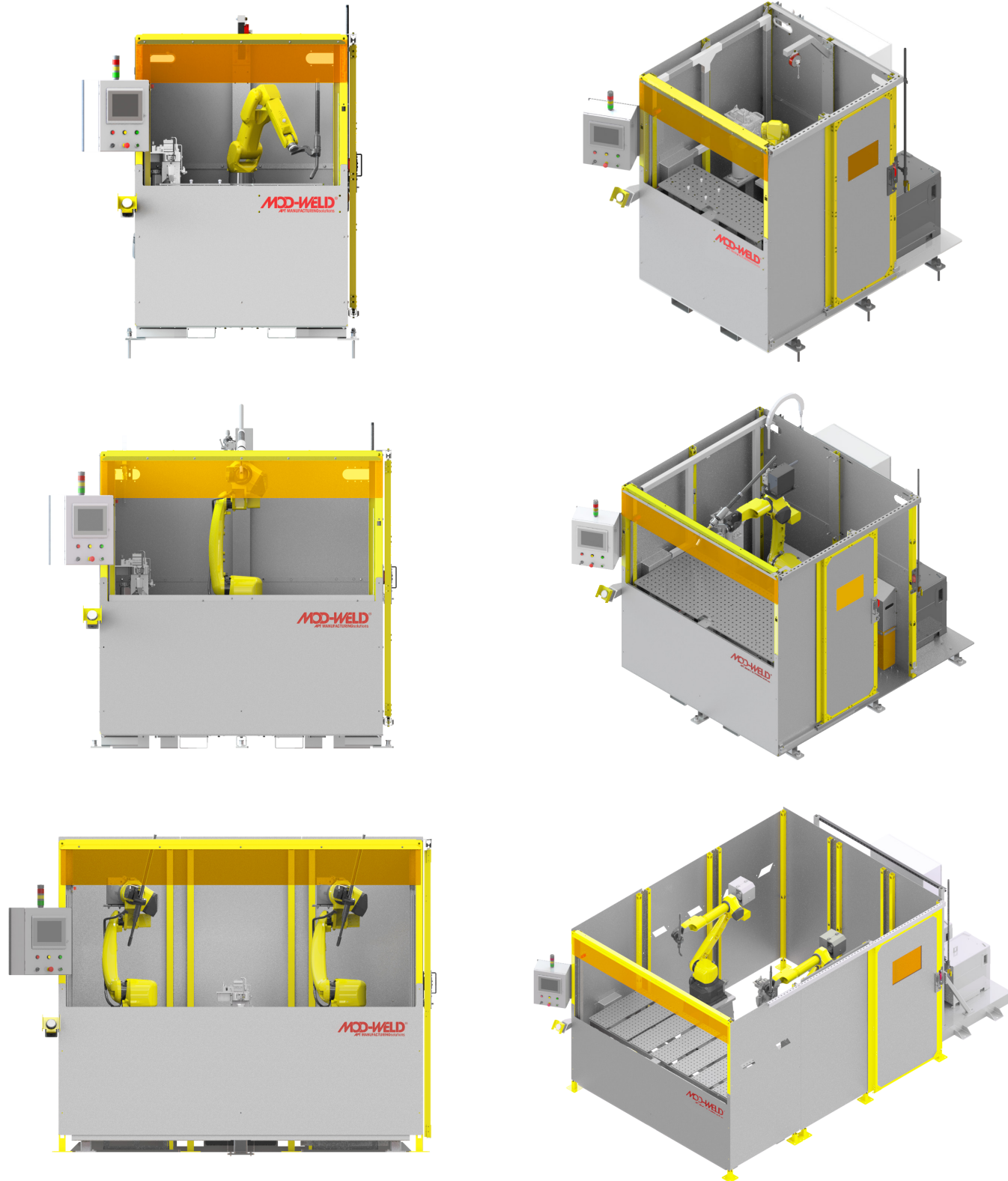
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# ROBOT ARC MATE CELL

## SINGLE STATION FIXED WIDE TABLE

# MOD-WELD

## FEATURES & SPECS



MOD-WELD Single Station Fixed Wide Table Specs				Power Supply Choice		
Exclusive with FANUC Robot						
SYSTEM MODEL	SSFWT-48-AM50	SSFWT-72-AM100	SSFWT-96-AM120	<b>FRONIUS 400</b>	<b>MILLER 350</b>	
6-axis robot	ARC Mate 50iD	ARC Mate 100iD	ARC Mate 120iD	Power Supply	TPS/i-400	Auto-Continuum™ 350
Robot Reach	36"	57"	72"	Main Voltage	200-230V/380-4603-PH	230-575 V 3-PH
Robot Power	480VAC 3PH 60AMP			Torch	22.5 degree torch angle	
Robot Programming	Teach Pendent Only			Standard Wire Size	.035 wire	
Available I/O	8 in 8 out			Welding Type	visit <a href="http://fronius.com">fronius.com</a>	visit <a href="http://millerwelds.com">millerwelds.com</a>
Available Valve Bank Space	(4) closed center / (4) Blanks					
Operator Interface / Recipe Management	Rockwell PLC/HMI Interface					
Cell Footprint	60" x 90"	84" x 102"	108" x 114"			
Table Work Space	24" x 48"	36" x 72"	48" x 96"			
Table Hole size	16mm Dia 2" x 2" Hole Pattern					
Additional Options & Accessories						
PART NUMBER	PART DESCRIPTION			DESCRIPTION	DESCRIPTION	
HWST	Heavy Weld Seam Track Software			HHT (in addition to the robot torch)*	FHHT - Fronius hand held torch	MHHT - Miller hand held torch
Custom Weld Fixtures	Send Drawings for Quote			Power Supply Upgrade*	TPS/i-500 and 600	Auto-Continuum™500
ABIO-8	Additional Allen Bradley I/O, 8 in 8 out			COOLER*	Fronius Chiller	Miller Chiller
SY7301-5U1-NA	Additional 3 position closed center valve			SRVT (Servo Torch)*	Fronius Push/Pull Ready System	FANUC Servo w/ Binzel Gun
MW-48-EX-HOOD	48" Exhaust Hood with 8" duct			CTRM (Auto Reamer)	Fronius	Tregaskiss
MW-72-EX-HOOD	72" Exhaust Hood with 8" duct			Pulse	Weld Process Pulse	
MW-96-EX-HOOD	96" Exhaust Hood with 8" duct					
RANC	Robotic auto nozzle cleaner, wire cut, spatter removal, & spatter spray					

Base model is configured to weld steel (hard metal), soft metals require additional options marked with \*

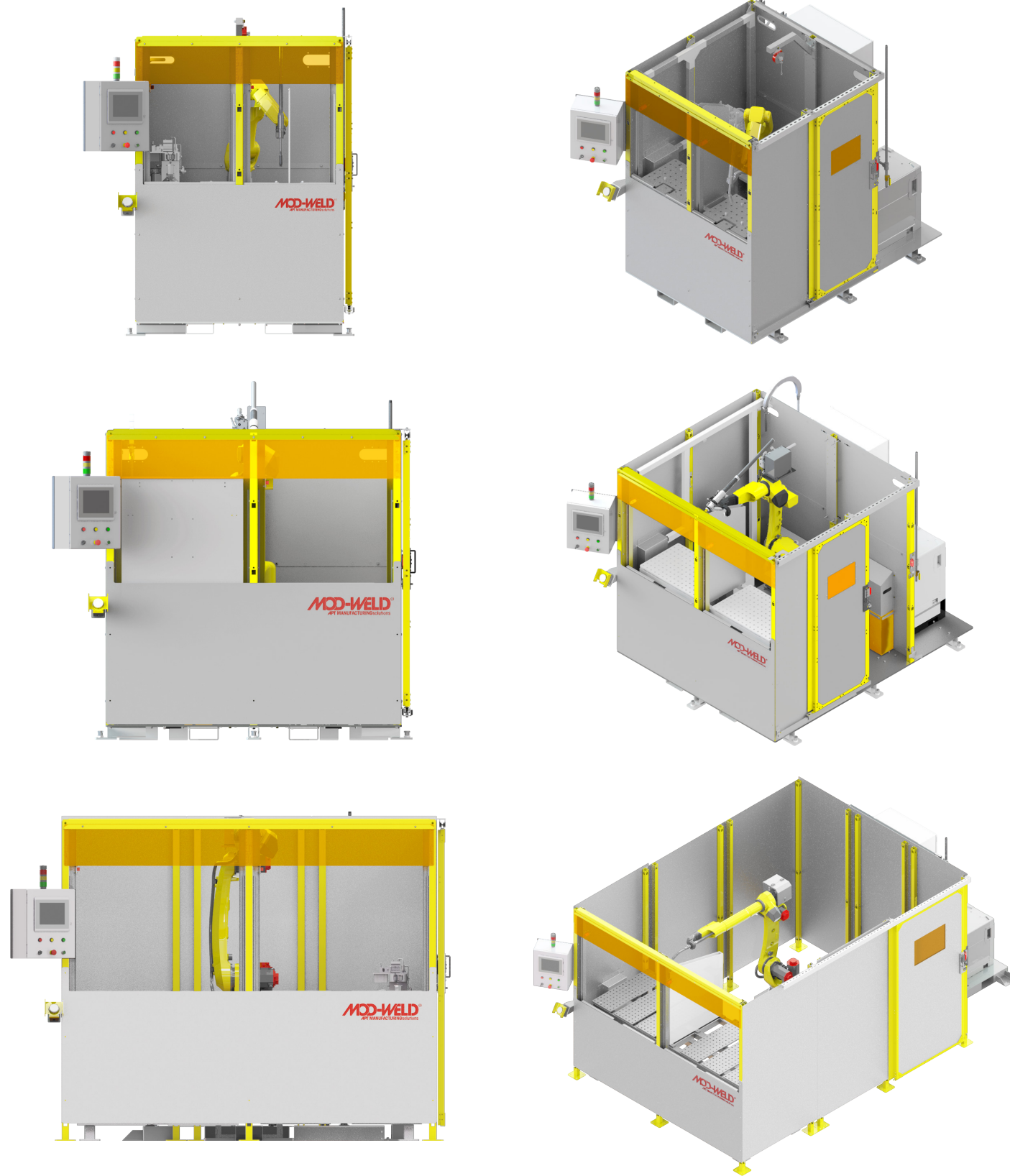
The fixed table allows the operator to load the parts directly into their fixture as the robot waits in a safe position for the safety door to close before welding.

# ROBOT ARC MATE CELL

## DUAL STATION FIXED TABLE

# MOD-WELD

## FEATURES & SPECS



MOD-WELD Dual Station Fixed Table Specs				Power Supply Choice		
Exclusive with <b>FANUC</b> Robot						
<b>SYSTEM MODEL</b>	<b>DSFT-48-AM50</b>	<b>DSFT-72-AM100</b>	<b>DSFT-96-AM120</b>	<b>FRONIUS 400</b>	<b>MILLER 350</b>	
6-axis robot	ARC Mate 50iD	ARC Mate 100iD	ARC Mate 120iD	<b>Power Supply</b>	TPS/i-400	Auto-Continuum™350
Robot Reach	36"	57"	72"	<b>Main Voltage</b>	200-230V / 380-460 3-PH	230-575 V 3-PH
Robot Power	480VAC 3PH 60AMP			<b>Torch</b>	22.5 degree torch angle	
Robot Programming	Teach Pendent Only			<b>Standard Wire Size</b>	.035 wire	
Available I/O	8 in 8 out			<b>Welding Type</b>	visit <a href="http://fronius.com">fronius.com</a>	visit <a href="http://millerwelds.com">millerwelds.com</a>
Available Valve Bank Space	(4) closed center / (4) Blanks					
Operator Interface / Recipe Management	Rockwell PLC/HMI Interface					
Cell Footprint	60" x 90"	84" x 102"	108" x 114"			
Table Work Space	2 @ 20" x 16" each	2 @ 30" x 20" each	2 @ 40" x 36" each			
Table Hole size	16mm Dia 2" x 2" Hole Pattern					
Additional Options & Accessories						
PART NUMBER	PART DESCRIPTION				DESCRIPTION	DESCRIPTION
HWST	Heavy Weld Seam Track Software			HHT (in addition to the robot torch)*	FHHT - Fronius hand held torch	MHHT - Miller hand held torch
Custom Weld Fixtures	Send Drawings for Quote			Power Supply Upgrade*	TPS/i-500 and 600	Auto-Continuum™500
ABIO-8	Additional Allen Bradley I/O, 8 in 8 out			COOLER*	Fronius Chiller	Miller Chiller
SY7301-5U1-NA	Additional 3 position closed center valve			SRVT (Servo Torch)*	Fronius Push/Pull Ready System	FANUC Servo w/ Binzel Gun
MW-48-EX-HOOD	48" Exhaust Hood with 8" duct			CTRM (Auto Reamer)	Fronius	Tregaskiss
MW-72-EX-HOOD	72" Exhaust Hood with 8" duct			<b>Pulse</b>	Weld Process Pulse	
MW-96-EX-HOOD	96" Exhaust Hood with 8" duct					
RANC	Robotic auto nozzle cleaner, wire cut, spatter removal, & spatter spray					

Base model is configured to weld steel (hard metal), soft metals require additional options marked with \*

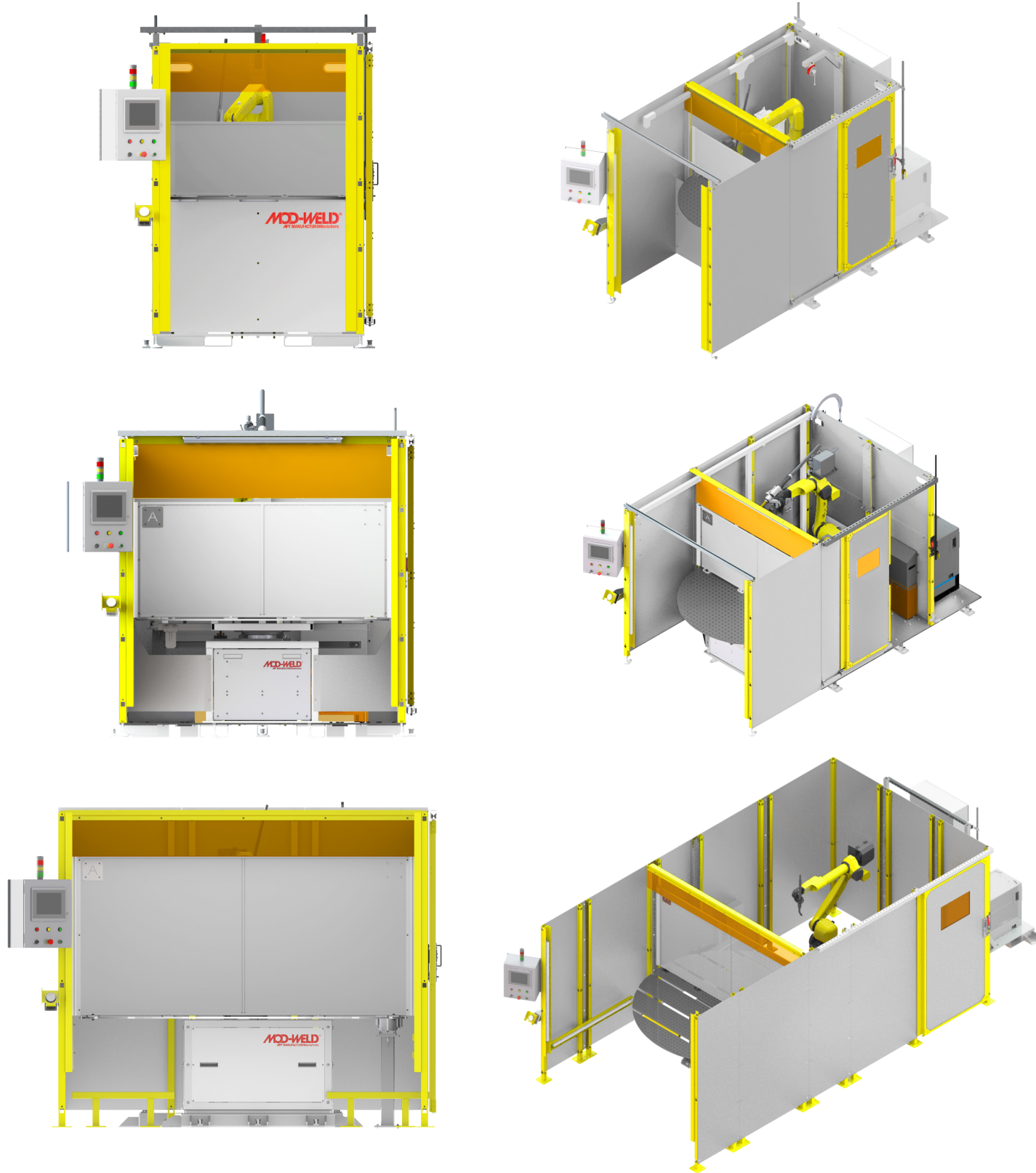
The dual station fixed table allows the operator to load/unload on one fixture while the robot is safely welding on the other side.

# ROBOT ARC MATE CELL

## DUAL STATION ROTARY TABLE

# MOD-WELD

## FEATURES & SPECS



MOD-WELD Dual Station Rotary Table Specs				Power Supply Choice		
Exclusive with FANUC Robot						
<b>SYSTEM MODEL</b>	<b>DSRT-48-AM50</b>	<b>DSRT-72-AM100</b>	<b>DSRT-96-AM120</b>	<b>FRONIUS 400</b>	<b>MILLER 350</b>	
6-axis robot	ARC Mate 50iD	ARC Mate 100iD	ARC Mate 120iD	<b>Power Supply</b>	TPS/i-400	Auto-Continuum™350
Robot Reach	36"	57"	72"	<b>Main Voltage</b>	200-230V/380-4603-PH	230-575 V 3-PH
Robot Power	480VAC 3PH 60AMP			<b>Torch</b>	22.5 degree torch angle	
Robot Programming	Teach Pendent Only			<b>Standard Wire Size</b>	.035 wire	
Available I/O	8 in 8 out			<b>Welding Type</b>	visit <a href="http://fronius.com">fronius.com</a>	visit <a href="http://millerwelds.com">millerwelds.com</a>
Available Valve Bank Space	(4) closed center / (4) Blanks					
Operator Interface / Recipe Management	Rockwell PLC/HMI Interface					
Cell Footprint	60" x 90"	84" x 102"	108" x 114"			
Table Work Space	15" x 42"	27" x 66"	39" x 90"			
Table Hole size	16mm Dia 2" x 2" Hole Pattern					
Additional Options & Accessories						
PART NUMBER	PART DESCRIPTION				DESCRIPTION	DESCRIPTION
HWST	Heavy Weld Seam Track Software			HHT (in addition to the robot torch)*	FHHT - Fronius hand held torch	MHHT - Miller hand held torch
Custom Weld Fixtures	Send Drawings for Quote			Power Supply Upgrade*	TPS/i-500 and 600	Auto-Continuum™500
ABIO-8	Additional Allen Bradley I/O, 8 in 8 out			COOLER*	Fronius Chiller	Miller Chiller
SY7301-5U1-NA	Additional 3 position closed center valve			SRVT (Servo Torch)*	Fronius Push/Pull Ready System	FANUC Servo w/ Binzel Gun
MW-48-EX-HOOD	48" Exhaust Hood with 8" duct			CTRM (Auto Reamer)	Fronius	Tregaskiss
MW-72-EX-HOOD	72" Exhaust Hood with 8" duct			Pulse	Weld Process Pulse	
MW-96-EX-HOOD	96" Exhaust Hood with 8" duct					
RANC	Robotic auto nozzle cleaner, wire cut, spatter removal, & spatter spray					

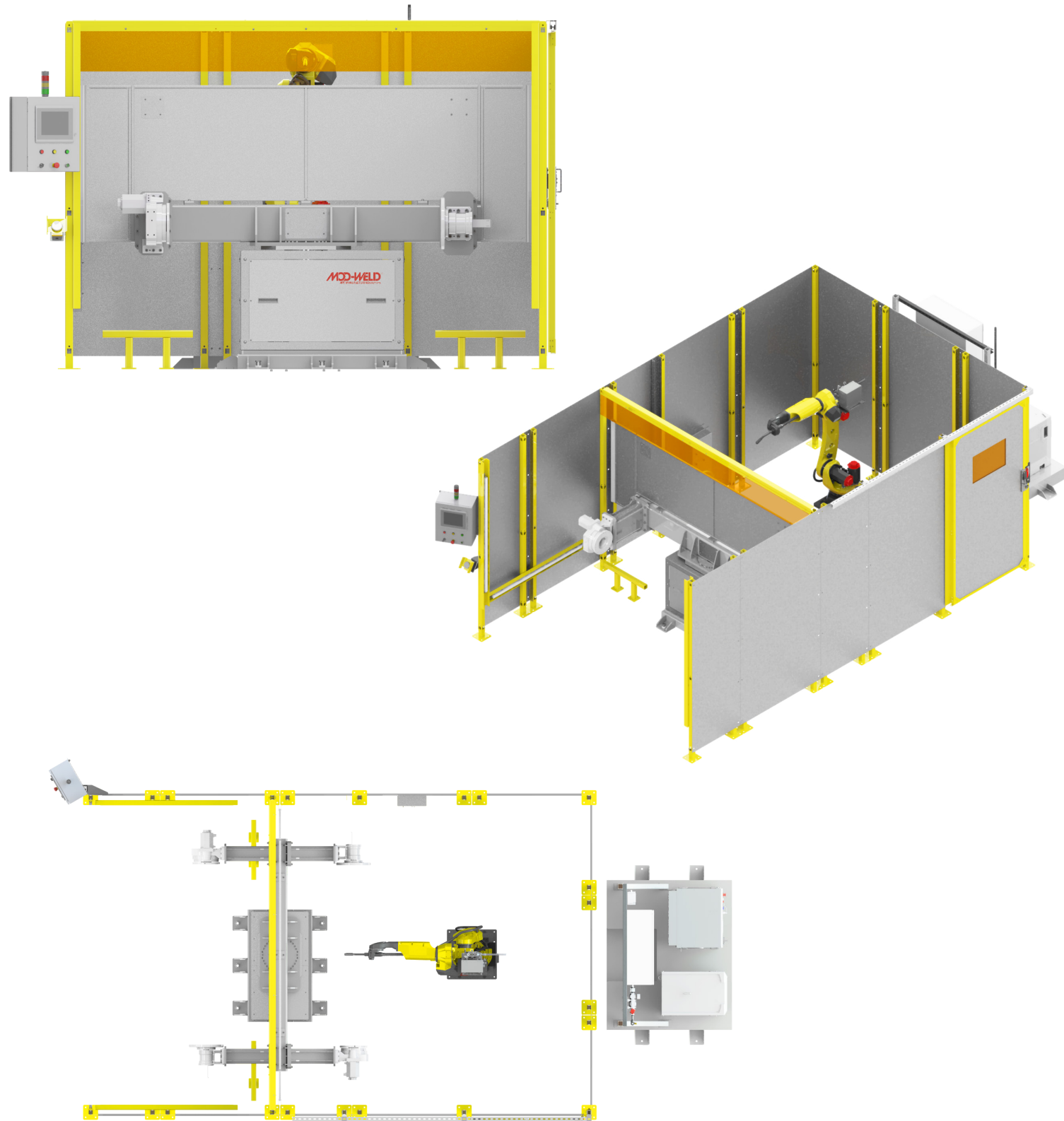
Base model is configured to weld steel (hard metal), soft metals require additional options marked with \*

The rotary table allows the operator to load/unload the product outside of the weld cell, then the rotary table will bring the product into the cell for welding. When the robot has completed the welds on side "A" it will rotate table and begin welding side "B"







# ROBOT ARC MATE CELL

## DUAL STATION H-FRAME



# MOD-WELD

## FEATURES & SPECS

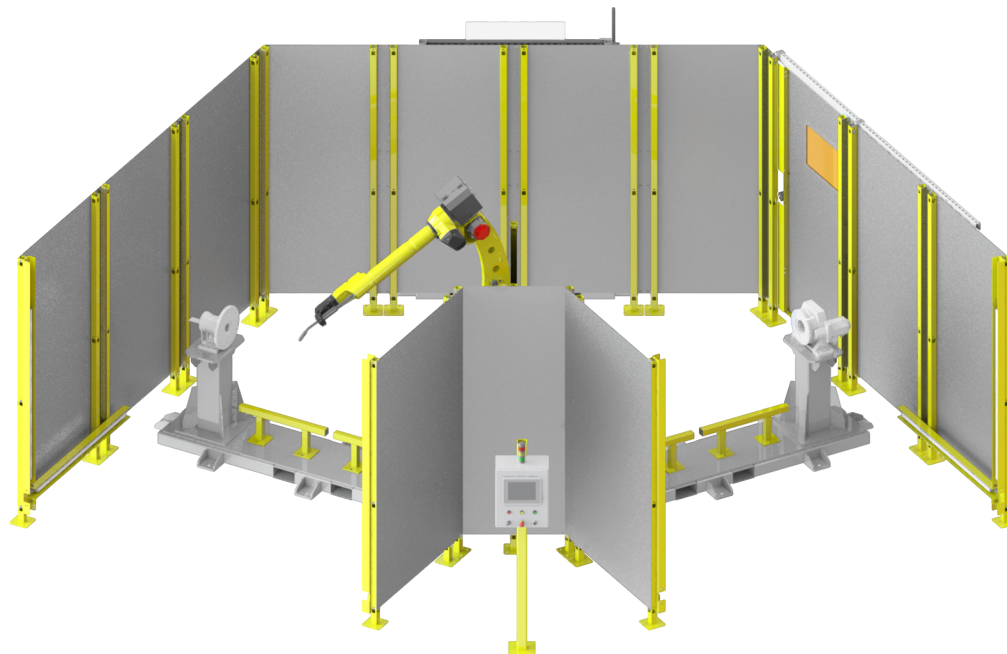
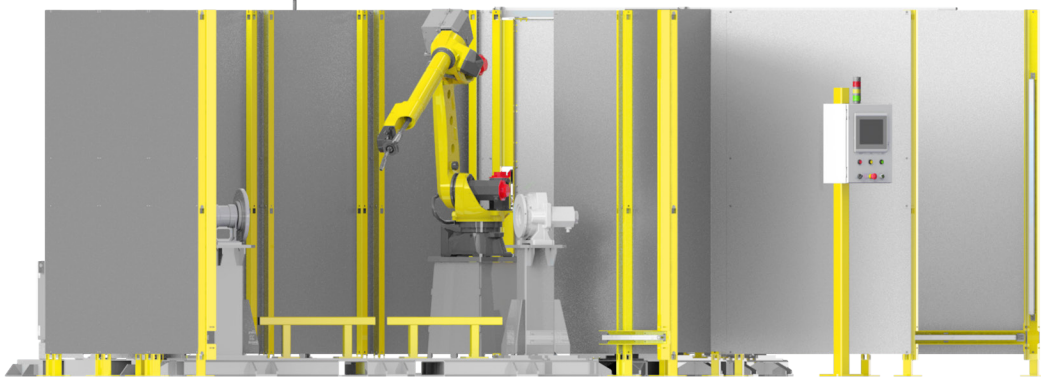
MOD-WELD Dual Station H-Frame Specs			Power Supply Choice	
Exclusive with FANUC Robot				
<b>SYSTEM MODEL</b>	<b>DSHF-72-AM120</b>	<b>DSHF-96-ASM120</b>		
			<b>FRONIUS 400</b>	<b>MILLER 350</b>
6-axis robot	ARC Mate 120iD	ARC Mate 120iD/12L	<b>Power Supply</b>	TPS/i-400      Auto-Continuum™ 350
Robot Reach	72"	89"	<b>Main Voltage</b>	200-230V/380-4603-PH      230-575 V 3-PH
Robot Power	480VAC 3PH 60AMP		<b>Torch</b>	22.5 degree torch angle
Robot Programming	Teach Pendent Only		<b>Standard Wire Size</b>	.035 wire
Available I/O	8 in 8 out		<b>Welding Type</b>	visit fronius.com
Available Valve Bank Space	(4) closed center / (4) Blanks			visit millerwelds.com
Operator Interface/Recipe Management	Rockwell PLC/HMI Interface			
Max outboard Servo Rotation Diameter	32"			
Floor to Center Outboard Servo	38.75"			
Cell Footprint	134" x 260"	158" x 260"		
Headstock/Tailstock Span	72"	96"		
Max Payload	1,000lbs Each Station	900lbs Each Station		
Additional Options & Accessories				
PART NUMBER	PART DESCRIPTION		DESCRIPTION	DESCRIPTION
HWST	Heavy Weld Seam Track Software	HHT (in addition to the robot torch)*	FHHT - Fronius hand held torch	MHHT - Miller hand held torch
Custom Weld Fixtures	Send Drawings for Quote	Power Supply Upgrade*	TPS/i-500 and 600	Auto-Continuum™ 500
ABIO-8	Additional Allen Bradley I/O, 8 in 8 out	COOLER *	Fronius Chiller	Miller Chiller
SY7301-5U1-NA	Additional 3 position closed center valve	SRVT (Servo Torch)*	Fronius Push/Pull Ready System	FANUC Servo w/ Binzel Gun
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MW-72-EX-HOOD	72" Exhaust Hood with 8" duct	Pulse	Weld Process Pulse	
MW-96-EX-HOOD	96" Exhaust Hood with 8" duct			
RANC	Robotic auto nozzle cleaner, wire cut, spatter removal, & spatter spray			

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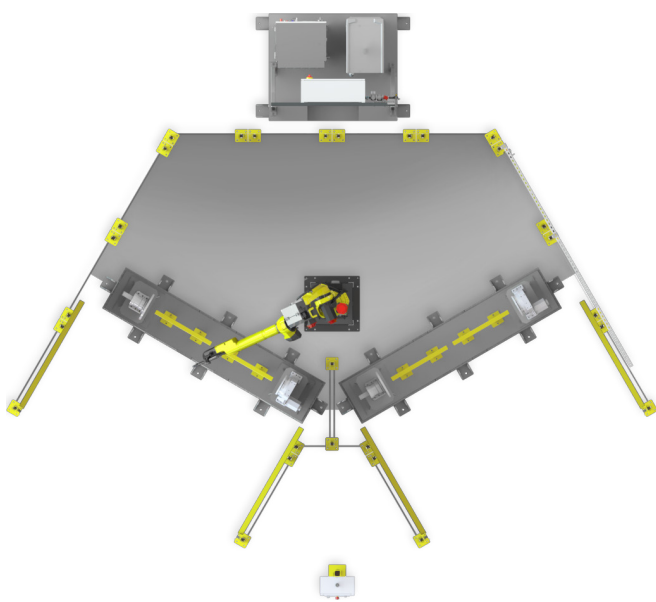
The H Frame weld cell provides a robust, efficient and high payload platform for welding a wide array of high volume components.

# ROBOT ARC MATE CELL

## HEAD STOCK TAIL STOCK







Shown above is the Dual HSTS-120-AM120



# MOD-WELD

## FEATURES & SPECS

MOD-WELD Head Stock Tail Stock Specs			Power Supply Choice	
Exclusive with FANUC Robot				
<b>SYSTEM MODEL</b>	<b>HSTS-96-AM100</b>	<b>HSTS-120-AM120</b>		
			<b>FRONIUS 400</b>	<b>MILLER 350</b>
6-axis robot	ARC Mate 100iD/8L	ARC Mate 120iD/12L	<b>Power Supply</b>	TPS/i-400 Auto-Continuum™ 350
Robot Reach	80"	89"	<b>Main Voltage</b>	200-230V/380-4603-PH 230-575 V 3-PH
Robot Power	480VAC 3PH 60AMP		<b>Torch</b>	22.5 degree torch angle
Robot Programming	Teach Pendent Only		<b>Standard Wire Size</b>	.035 wire
Available I/O	8 in 8 out		<b>Welding Type</b>	visit fronius.com
Available Valve Bank Space	(4) closed center / (4) Blanks			visit millerwelds.com
Operator Interface/Recipe Management	Rockwell PLC/HMI Interface			
Max Servo Rotation Diameter	40"			
Floor to Center Outboard Servo	40.25"			
Cell Footprint	254" X 218"	254" X 242"		
Headstock/Tailstock Span	96"	120"		
Max Payload	1,000lbs.	1,000lbs.		
Additional Options & Accessories				
PART NUMBER	PART DESCRIPTION		DESCRIPTION	DESCRIPTION
HWST	Heavy Weld Seam Track Software	HHT (in addition to the robot torch)*	FHHT - Fronius hand held torch	MHHT - Miller hand held torch
Custom Weld Fixtures	Send Drawings for Quote	Power Supply Upgrade*	TPS/i-500 and 600	Auto-Continuum™ 500
ABIO-8	Additional Allen Bradley I/O, 8 in 8 out	COOLER *	Fronius Chiller	Miller Chiller
SY7301-5U1-NA	Additional 3 position closed center valve	SRVT (Servo Torch)*	Fronius Push/Pull Ready System	FANUC Servo w/ Binzel Gun
MW-48-EX-HOOD	48" Exhaust Hood with 8" duct	CTRM (Auto Reamer)	Fronius	Tregaskiss
MW-72-EX-HOOD	72" Exhaust Hood with 8" duct	<b>Pulse</b>	Weld Process Pulse	
MW-96-EX-HOOD	96" Exhaust Hood with 8" duct			
RANC	Robotic auto nozzle cleaner, wire cut, spatter removal, & spatter spray			

Base model is configured to weld steel (hard metal), soft metals require additional options marked with \*

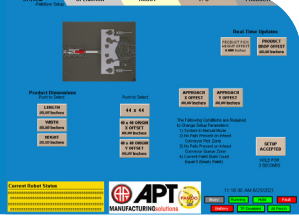
The headstock/tailstock weld cell is a versatile efficient set up for welding a wide array of long and large components.

# MATE OPERATOR INTERFACE




The Rockwell controls integration on the MOD-WELD MATE series was designed with the end user in mind. The operator interface is easy-to-use, has fewer HMI control touch points, visual factory concepts & simplified maintenance and troubleshooting.

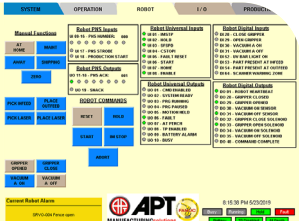
**SYSTEM** - These screens are used for general machine setup. A majority of the functions available have security requirements to access them. Some Functions on the System HMI screens include: VFD frequency setup, Recipe Management System, Inspection Limits, I/O Link Setup, Login, and System Security Settings.



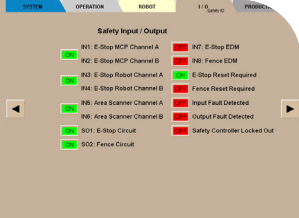
**OPERATION** - These screens are used for general machine operation and functionality. 3D model images are shown on the screen for ease of use. Status Indicators, Mode Control, and Manual Operations, along with Operational and Fault Messages, are displayed on these screens.



**ROBOT** - This screen displays all communication and I/O interface between the system PLC and robot. Users may also manually control the functions of the robot and call a specific robot program to run from this screen.



**I/O** - On this screen users can see all I/O within the system, its present status on/off to run diagnostics and aid in troubleshooting.



**PRODUCTION** - From these screens the user can view and capture production data to be used for business analytics. Recipe management and the production scheduler allow the users to edit the parameters and schedule all products the system can run.



## CONTROLS MADE SIMPLE WITH VISUAL FACTORY CONCEPTS

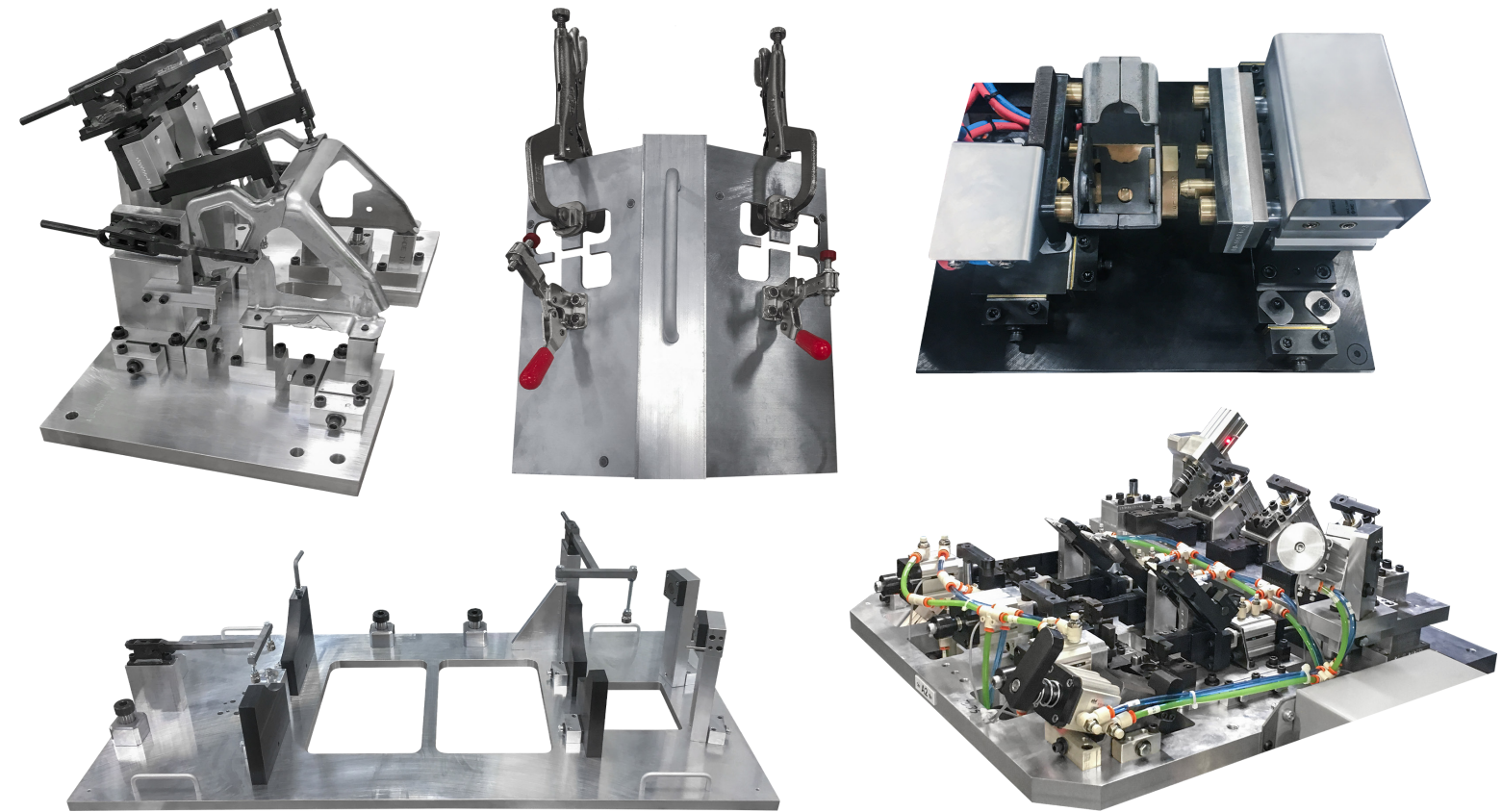
- The most accurate and efficient information conveyance
- 5 standard HMI screens with enhanced diagnostics
- Quick changeovers
- Simple recipe storage; easily selectable and expandable
- Password-protected levels
- Engineered with perfection

# MOD-WELD WELDING FIXTURES

## HAND CLAMP & AUTOMATED

APT offers a select design service with our inhouse engineering team. Their many years of experience will provide specific fixture solutions for accuracy and repeatability.

Please contact your distributor for pricing of welding fixture solutions.



- Hardened Contact Points
- Adjustability of Locating Materials
- Veteran Design Team
- MIC 6 aluminum baseplates for light weight.
- Aluminum bronze wear details to prevent spatter from sticking.
- NAAMS style shims for adjustability of locating details.
- Part presence sensors (as required per application)
- Concept approval drawing and 3D pdf provided upon purchase and your CAD data





# FANUC



February 2024

For more information visit:  
[aptmfg.com/welding](http://aptmfg.com/welding)