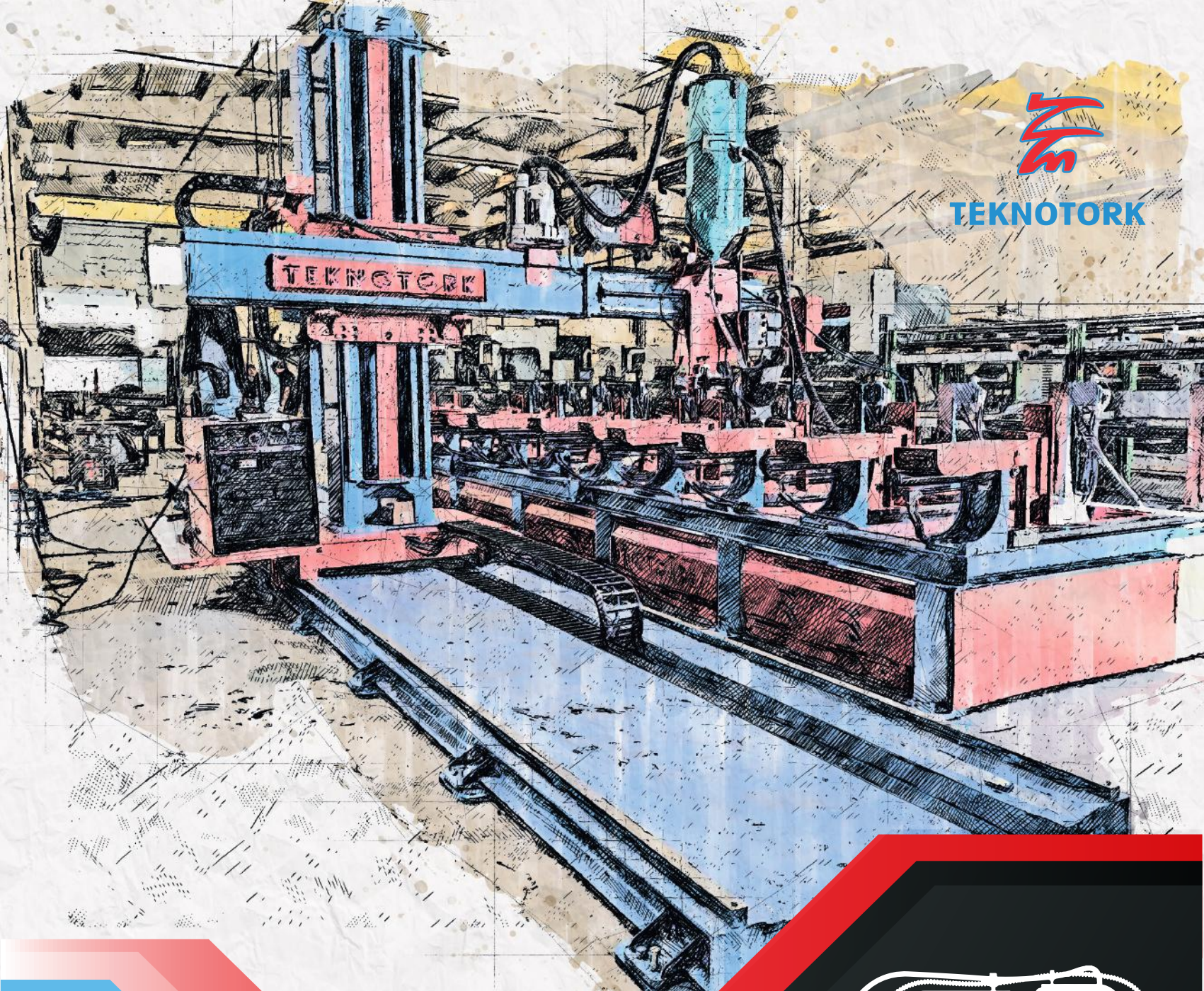
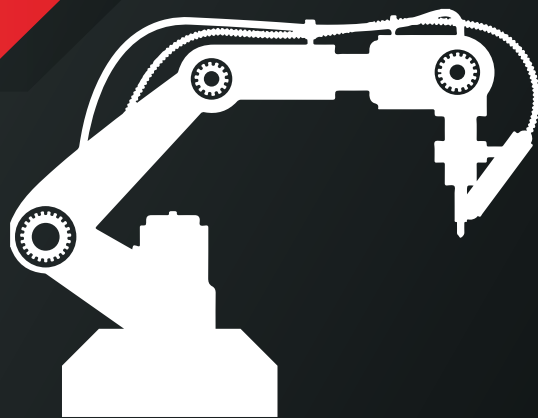




TEKNOTORK



# TEKNOTORK ENGINEERING PRODUCT CATALOG





## OUR VISION

To become the leading provider in the Automated Machine industry, offering an unparalleled customer experience and upholding service, integrity, and community principles.

We are dedicated to revolutionizing and improving the consumer vending experience through the utilization of cutting-edge technology. In addition, we offer a wide range of product solutions and ensure exceptional customer service.

We understand that each business has unique requirements and preferences. Therefore, we customize our approach accordingly, fostering long-term partnerships while surpassing our competitors by providing prompt service responses, menu customization options, and top-notch equipment.

## OUR MISSION

At TEKNOTORK Engineering, we approach our work with the utmost seriousness and commitment. Our primary focus is on designing, engineering, and manufacturing the necessary equipment to optimize your business operations. Additionally, we prioritize creating a conducive working environment that enables our team to provide exceptional service to our customers throughout the entire process - from pre-sale assistance, during the purchase, and even after-sales support. We diligently fulfill all responsibilities while upholding the moral values of our industry.

TEKNOTORK company has consistently been dedicated to delivering top-of-the-line equipment and comprehensive support within the industry. We wholeheartedly embrace technological advancements and utilize them in crafting cutting-edge and user-friendly equipment.

We specialize in developing, manufacturing, and supplying a wide range of products that are essential for various stages of production - from welding equipment to assembly machines and shoring solutions. Our offerings cater to both domestic and international markets, ensuring that we meet our customers' expectations for product quality across different regions.

As a company that has embraced quality as a core production philosophy since its inception, we strive for long-term partnerships and agreements based on mutual trust. Recognizing the ever-evolving nature of technology and the increasing demands of customers in the welding automation industry, we understand the significance of continuous education.

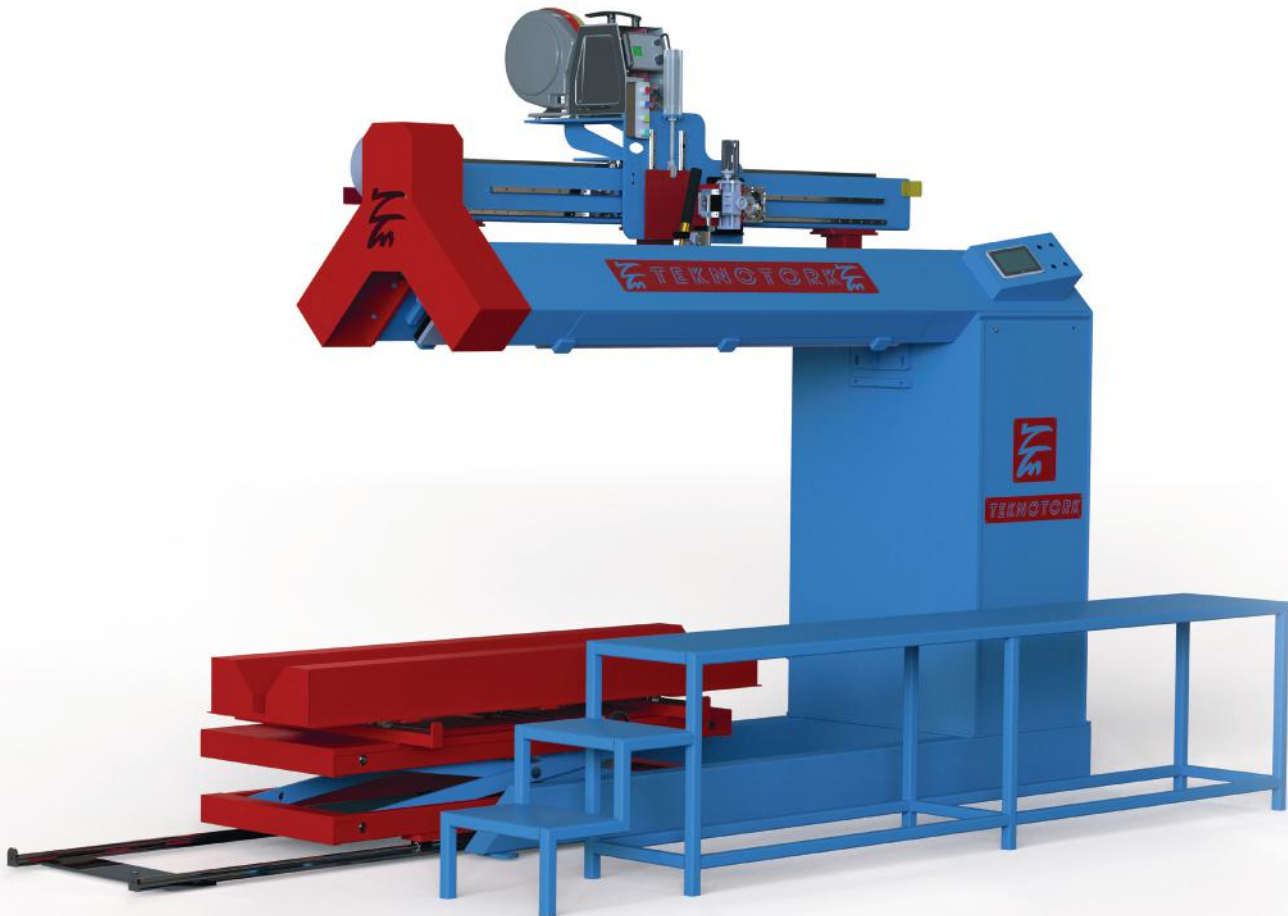


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The corner seam welding machine is designed to produce a wide range of box lengths, sizes, thicknesses, and alloys and automatically provide a smoother full-penetration cosmetic weld with minimal labor cost.

Corner Seam Welding Machine which adopts PLC programming logic is offered with the feature of saving at least 20 recipes as standard, considering users with many workpieces of different sizes. Optional features and programmable welding control provide a unique capability for the welding process.



### STANDARD FEATURES

- Suitable for TIG, Plasma, MIG and Laser welding.
- Fully welded fabrication.
- Alignment Blade
- PLC Automation.
- 7' Touchscreen.
- Mandrel end lock safety switch.
- Torch has vertical adjustment.
- Precision linear guide rail for smooth travel.
- Foot Pedal Finger Clamping (CuCrZr) Actuation.
- Independent left and right finger clamping actuation with foot pedals.
- Standard cable carrier to protect hoses and cables.
- Advanced carriage controls.
- Automatic front lock.
- Automatic pneumatic torch retraction.
- All programs can be saved to memory for immediate recall as required.

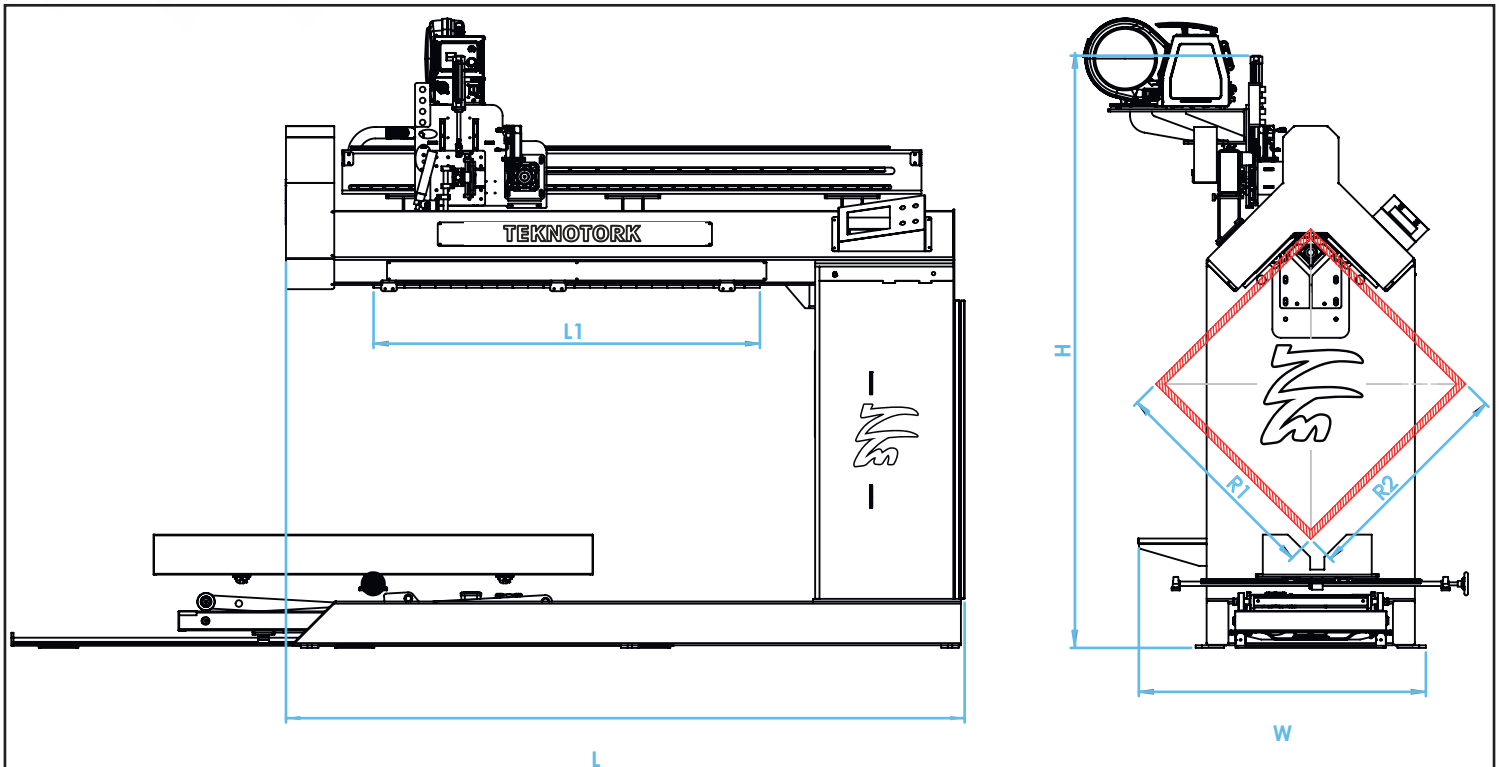
### OPTIONAL FEATURES

- Suitable for Sub-Arc welding.
- Cold wire feed.
- Laser seam tracking.
- Oscillation welding.
- Water cooling circuit inside the copper bar (Chiller).
- Loading travel car (Manual or motorized)



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## CORNER SEAM WELDING MACHINE

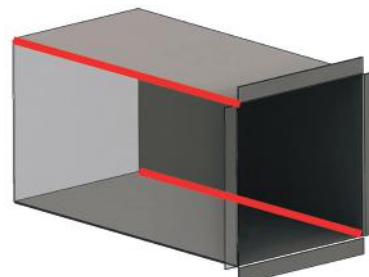
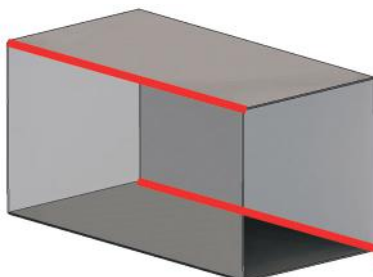


MODEL		TTMKM-1000	TTMKM -1500	TTMKM -2000
Min. Workpiece Dimension (mm)	R1*R2	120*120	120*120	150*150
Max. Workpiece Dimension (mm)	R1*R2	600*600	1000*1000	1200*1200
Max. Welding Length (mm)	L1	1000	1500	2000
Workpiece Thickness (mm)	T	0,6-3	0,6-4	0,6-8
Finger Clamping Pressure (bar)		6	6	6
Power Supply		380V 3P 50 Hz	380V 3P 50 Hz	380V 3P 50 Hz
Carriage Speed Range (mm/min)		0-2000	0-2000	0-2000
Overall Length (mm)	L	2400	2900	3400
Overall Width (mm)	W	1400	1400	1400
Overall Height (mm)	H	2000	2500	2700
Weight (kg)		1300	1800	2300

\* Capacities and sizes can be customized according to customer requirements.

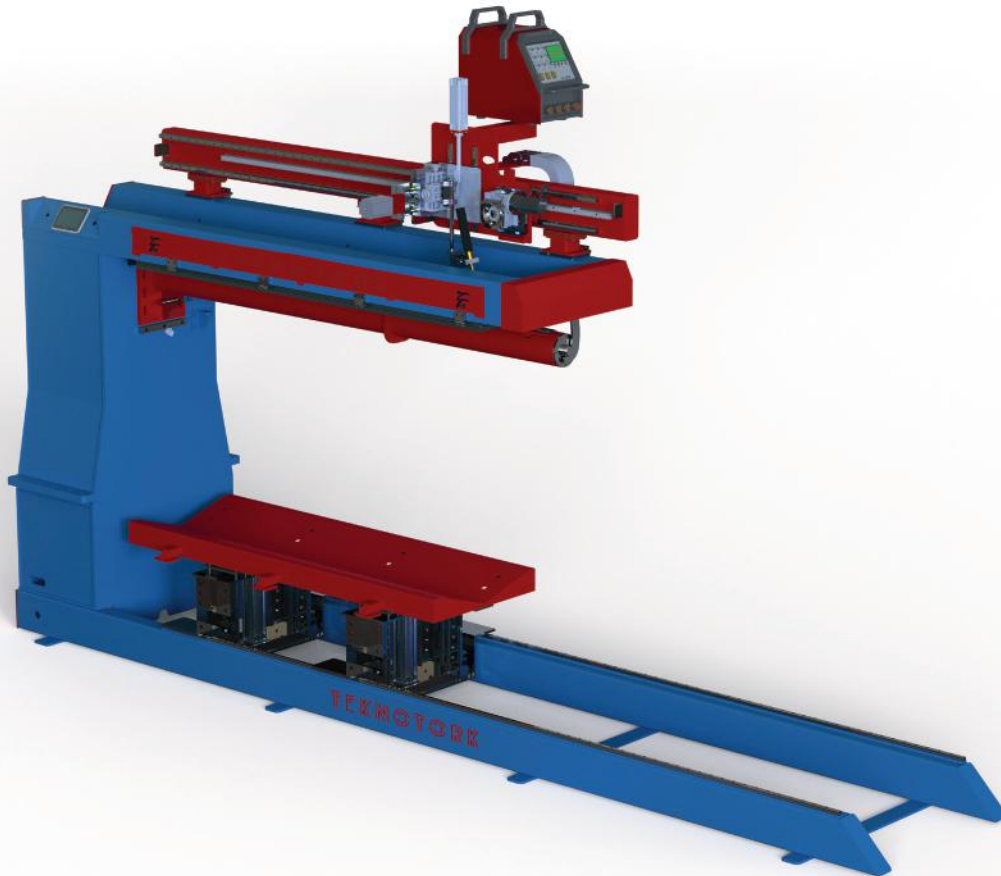
\* All products, features and data are subject to change without notice to improve reliability, function or design.

### APPLICATIONS



The Longitudinal welding machine is designed for welding longitudinal seams of cylindrical, conical, and flat sheets or plates. The construction and design of the clamping finger operation ensure the correct alignment of the welding material in workpieces. The variable speed traveling carriage that accurately machined beam allows the torch to follow the welding seam precisely.

Seam Welding Machine that adopts PLC programming logic is offered with the feature of saving at least 20 recipes as standard, considering users with many workpieces of different sizes. Optional features and programmable welding control provide a unique capability for the welding process.



## STANDARD FEATURES

- Suitable for TIG, Plasma, MIG and Laser welding.
- Fully welded fabrication.
- Alignment Blade
- PLC Automation.
- 7' Touchscreen.
- Mandrel end lock safety switch.
- Torch has vertical adjustment.
- Precision linear guide rail for smooth travel.
- Foot Pedal Finger Clamping (CuCrZr) Actuation.
- Independent left and right finger clamping actuation.
- Standard cable carrier to protect hoses and cables.
- Advanced carriage controls.
- Automatic front lock.
- Automatic pneumatic torch retraction.
- All programs can be saved to memory for immediate recall as required.

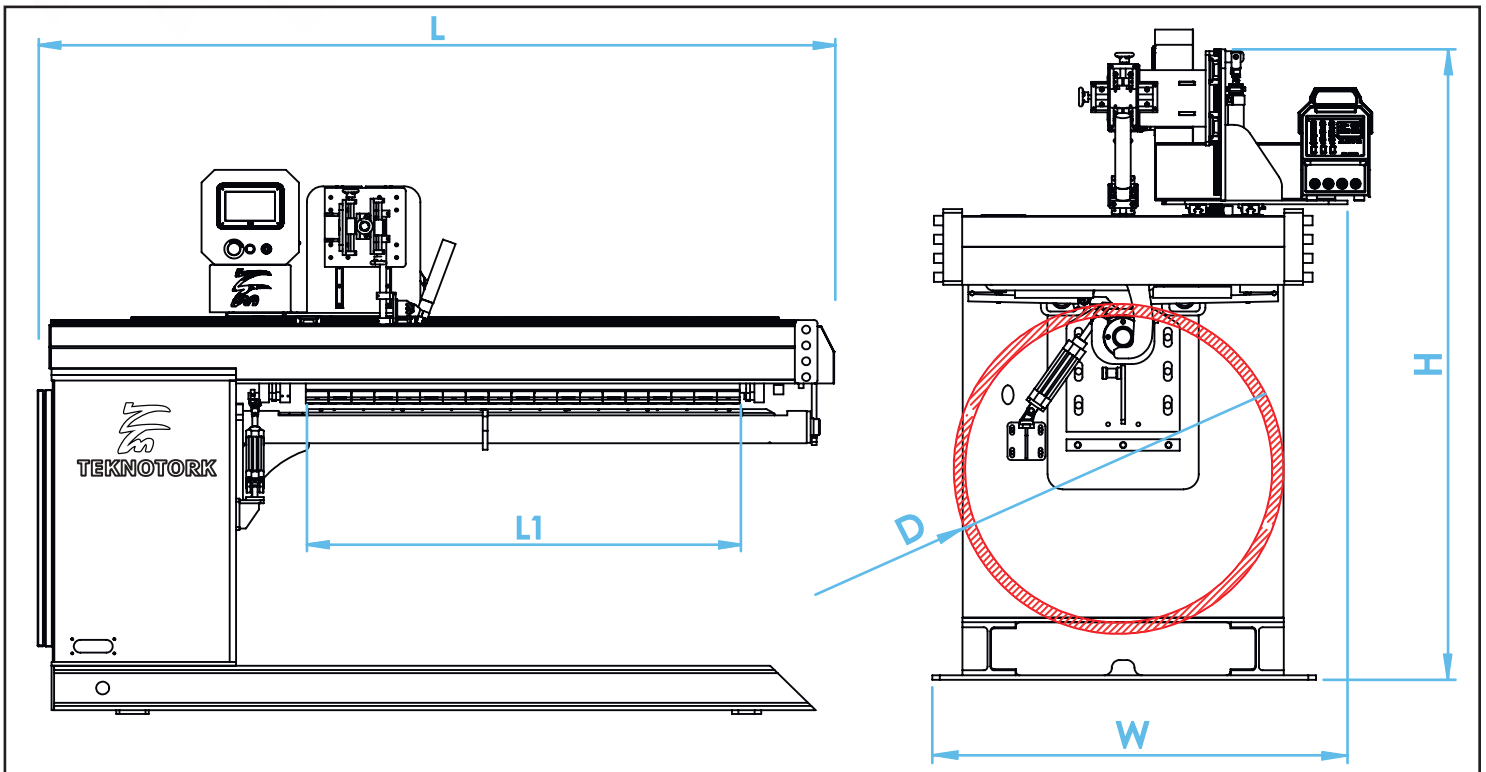
## OPTIONAL FEATURES

- Suitable for Sub-Arc welding.
- Cold wire feed.
- Laser seam tracking.
- Oscillation welding.
- Water cooling circuit inside the copper bar.
- Loading travel car (Manual or motorized)



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## LONGITUDINAL SEAM WELDING MACHINE

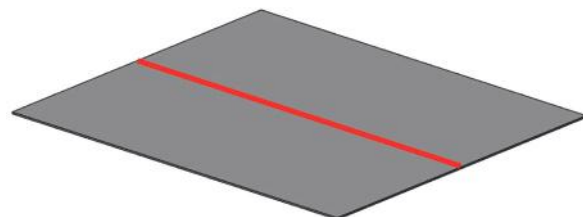


MODEL		TTBKM-1000	TTBKM -1500	TTBKM -2000	TTBKM -2500
Workpiece Diameter Range (mm)	D	150 - 650	200 - 650	250 - 850	300 - 1000
Max. Welding Length (mm)	L1	1000	1500	2000	2500
Workpiece Thickness (mm)	T	0,6-3	0,6-4	0,6-8	0,6-10
Finger Clamping Press		Pneumatic	Pneumatic	Pneumatic	Pneumatic
Finger Clamping Pressure (bar)		6	6	6	6
Power Supply		380V-50 Hz	380V-50 Hz	380V-50 Hz	380V-50 Hz
Carriage Speed Range (mm/min)		0-2000	0-2000	0-2000	0-2000
Overall Length (mm)	L	2150	2650	3150	3650
Overall Width (mm)	W	1050	1050	1400	1400
Overall Height (mm)	H	2000	2000	2250	2500
Weight (kg)		1300	1800	2300	2800

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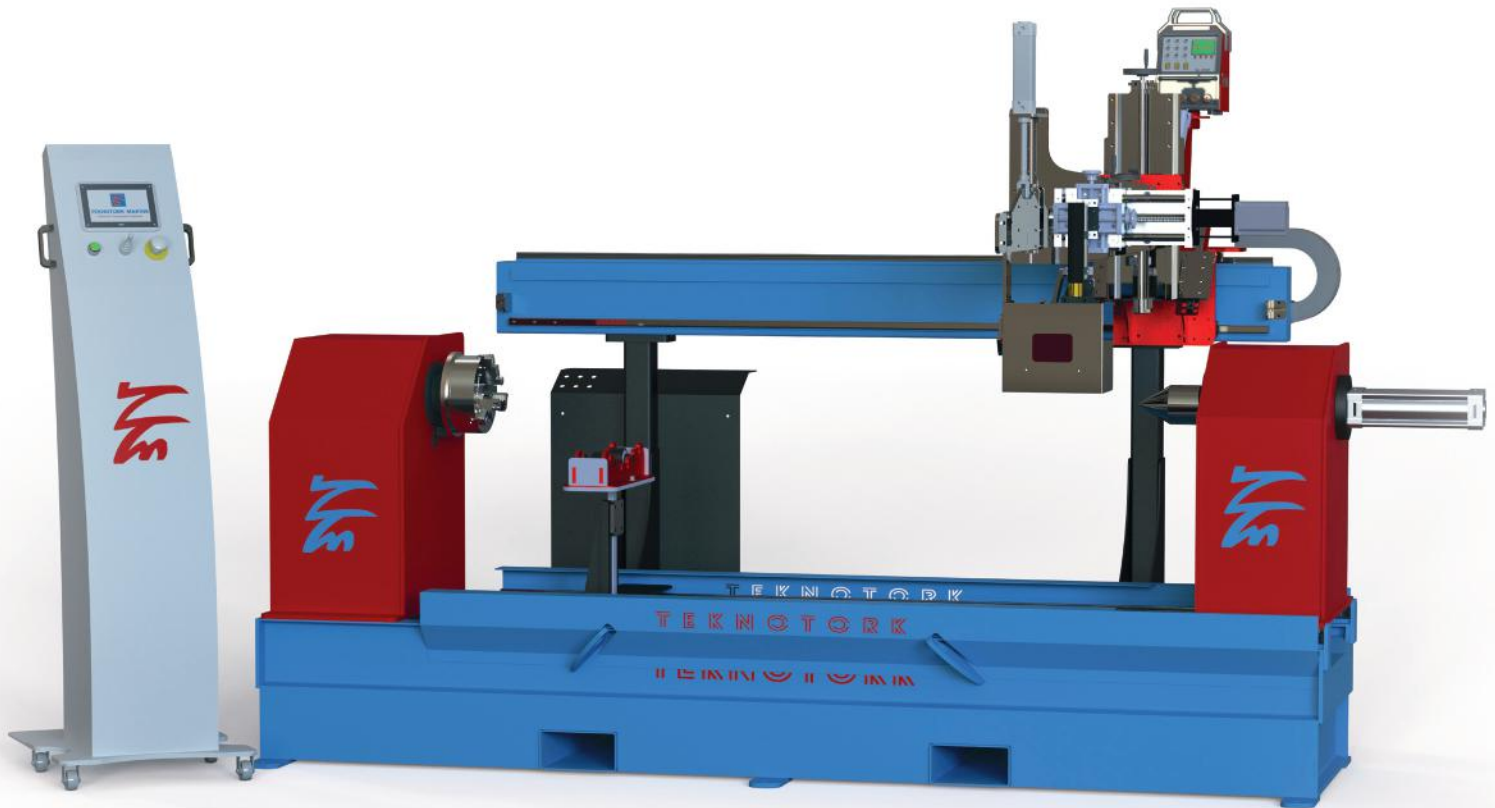
### APPLICATIONS





The circumferential welding machines are primarily utilized in production plants for the fabrication of cylindrical pipes intended for water, oil, milk, and air tanks. These machines can be provided in standard configurations or tailored to meet specific requirements regarding size and material specifications.

These machines apply to stainless steel, carbon, aluminum, iron and other materials with different welding methods of MIG/MAG, TIG and SAW. Dual welding heads and torches can be equipped according to customer requirements.



## STANDARD FEATURES

- Suitable for TIG, Plasma, MIG and Laser welding.
- Headstock: Direct Gear Drive with Monolithic rigid all steel frame.
- Centering 3-jaw chuck
- Tailstock: Conical, rigid steel centering.
- Quick positioning Tailstock with pneumatic pusher actuation-maintains alignment over the full range of thrust.
- Manual horizontal tailstock movement for workpieces of various lengths.
- PLC Automation.
- 7' Touchscreen.
- Torch head rises after all processes automatically for clear access when loading & unloading workpiece.
- Torch(es) has motorized vertical adjustment.
- Horizontally motorized side beam carriage(s).
- Precision linear guide rail for smooth travel.
- Standard cable carrier to support hoses and cables.
- Automatic pneumatic torch retraction.
- All programs can be saved to memory for immediate recall as required.

## OPTIONAL FEATURES

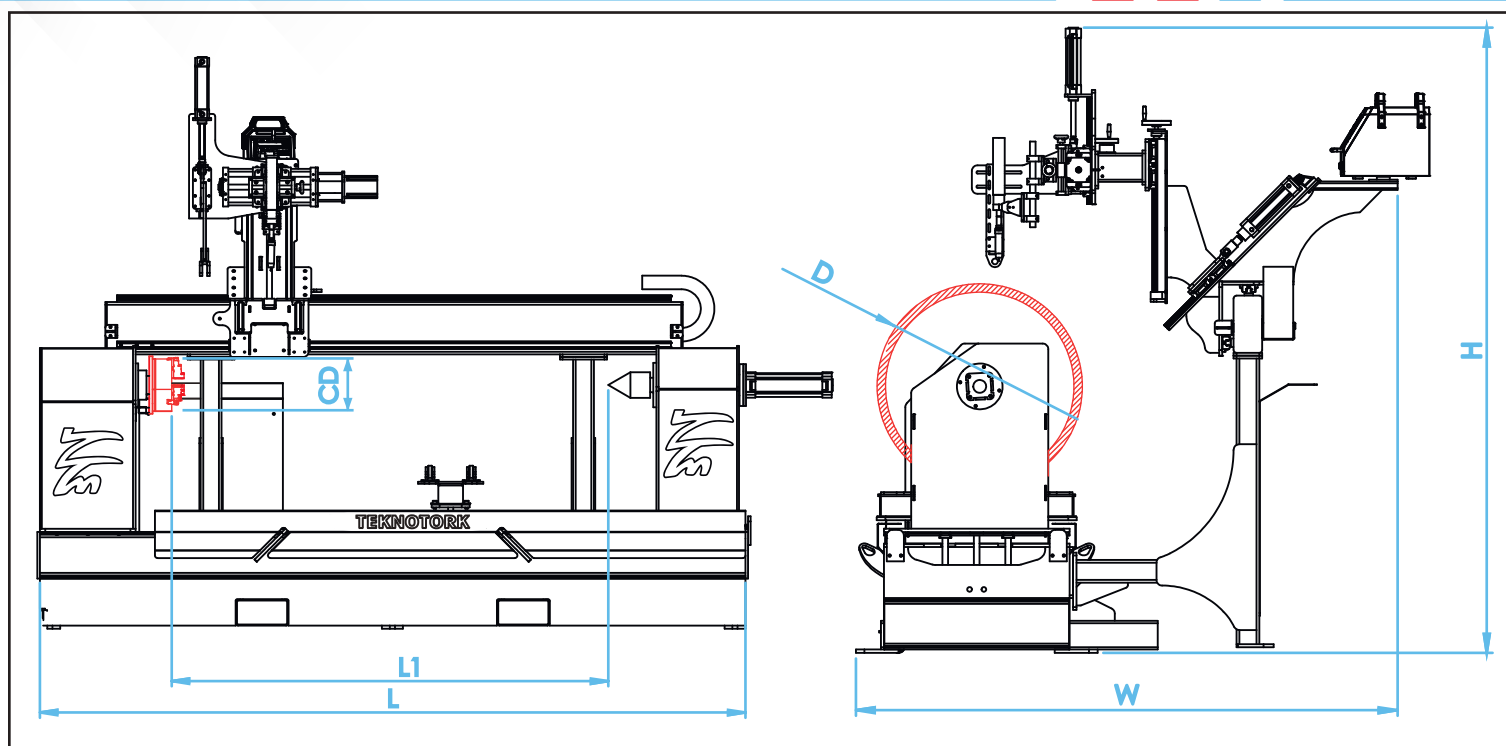
- Suitable for Sub-Arc welding.
- Cold wire feed.
- Oscillation welding.
- Automatic hydraulic loader.
- Additional welding carriages (torch) can be positioned for single or simultaneous welding.
- Positionable torch direction for 45° (pendulum)
- Protection hood made of fireproof fabric.
- Motorized length adjustable tailstock.
- Custom-designed positioner.
- GAS purge from the conical item in the tailstock.





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## CIRCUMFERENTIAL WELDING MACHINE



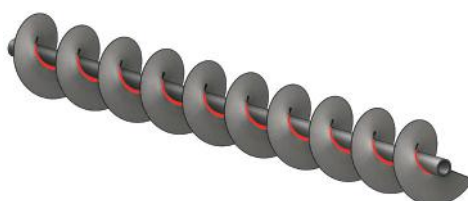
MODEL		TTMDKM-1000	TTMDKM-1500	TTMDKM-2000	TTMDKM-3000
Workpiece Diameter Range (mm)	D	350 - 650	350 - 650	350 - 650	350 - 650
Workpiece Length Range (mm)	L1	200-1000	200-1500	400-2000	400-3000
Law Chuck Diameter (mm)	CD	200	200	200	200
Roller Support		1 pc	1 pc	2 pcs	2 pcs
Center Type		5 Mors	5 Mors	5 Mors	5 Mors
Workpiece Weight (kg)		100	150	250	400
Input Power		380V 3P 50Hz	380V 3P 50Hz	380V 3P 50Hz	380V 3P 50Hz
Overall Width (mm)	W	1450	1450	1450	1450
Overall Length (mm)	L	2400	2900	3400	3900
Overall Height (mm)	H	2000	2000	2000	2000
Total Weight (kg)		850	1000	1150	1300

\* Available in any length.

\* Capacities and sizes can be customized according to customer requirements.

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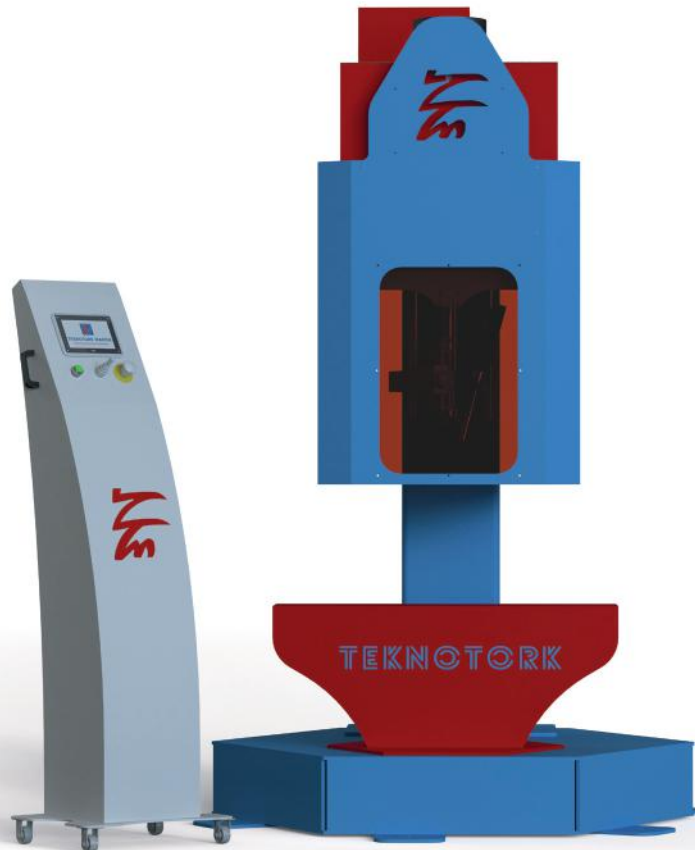
### APPLICATIONS



Fitting welding machines are designed to weld circular components with high throughput. A single torch mounted on the machine body allows the welding of both small and large surface areas. The torch can rotate up to 370° around the nozzle with many features such as start-stop delay, overlap welding and concave-shaped workpiece tracking capabilities.

The automatic vertical movement of the cabin, both prior to and subsequent to each welding process, minimize potential labor accidents that may arise from welding sparks.

These machines are also commonly referred to as fitting welders, circle welders, header welders, nozzle welders, sleeve welders, or port welders.



### STANDARD FEATURES

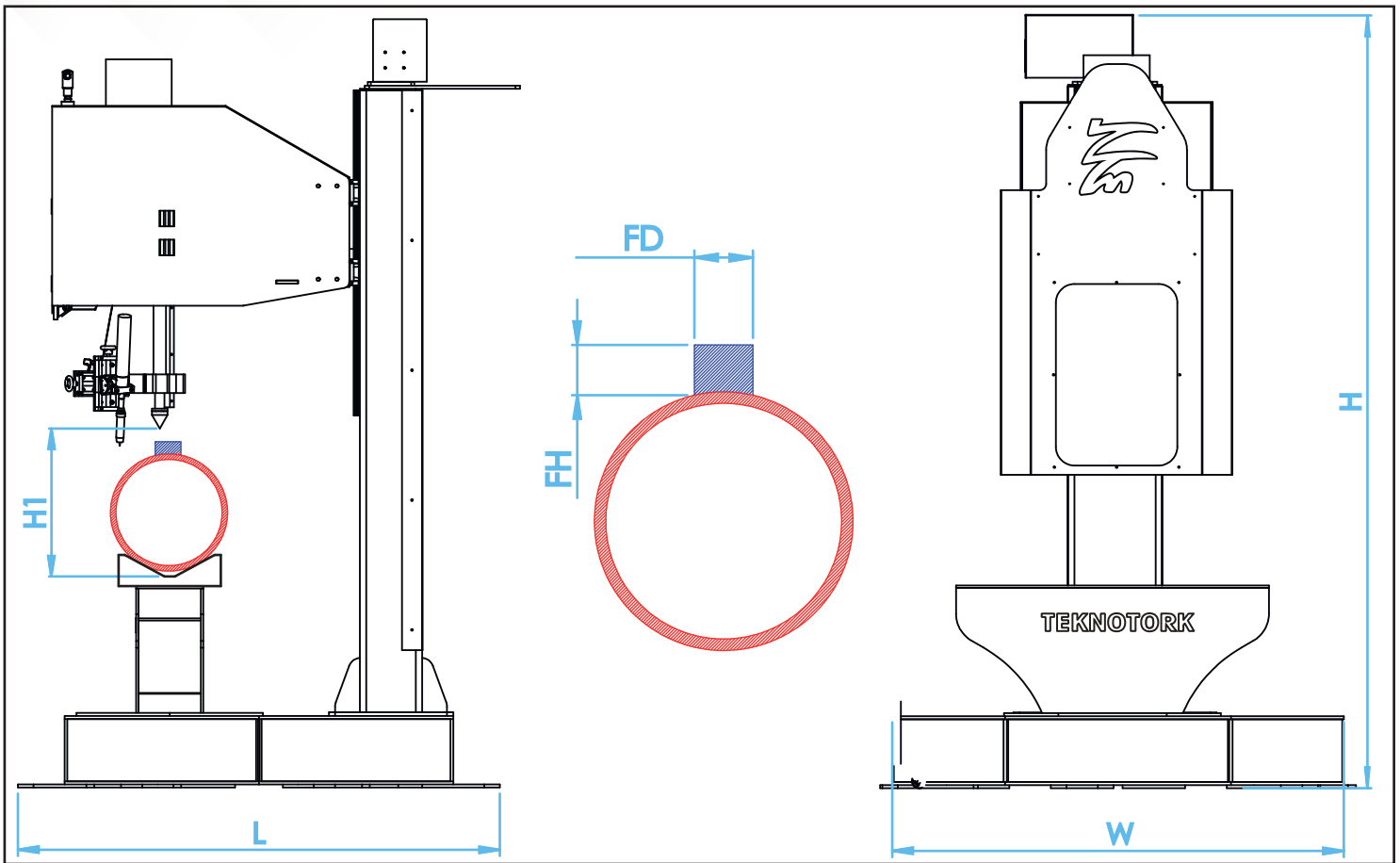
- Suitable for TIG, Plasma, MIG and Laser welding.
- DC rotation Drive
- PLC Automation.
- 7" Touchscreen.
- Torch(es) has motorized vertical adjustment.
- Precision linear guide rail for smooth vertical travel.
- Torch head rises after all processes automatically for clear access when loading & unloading workpiece.
- All programs can be saved to memory for immediate recall as required.
- Horizontally manual torch adjuster.
- Vertically motorized torch adjuster.
- Pneumatic centering with foot pedal.

### OPTIONAL FEATURES

- Oscillation welding.
- Protection hood made of steel or fireproof fabric. (The hood rises after all processes automatically for clear access when loading & unloading workpiece)
- Magnet centering.
- Welding fume extraction hood.
- Horizontally adjustable V-Type support.



## FITTING WELDING MACHINE

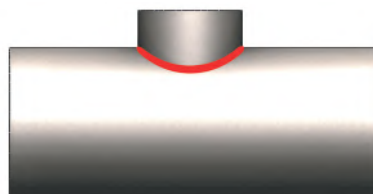


MODEL		TTMMKM-350	TTMDKM-650
Fitting Height Range (mm)	FH	15-80	15-80
Fitting Diameter Range (mm)	FD	10-100	10-100
Maximum Welding Speed (rpm)		0,1-15	0,1-15
Pipe + Fitting Height Range (mm)	H1	70-350	70-650
Power Supply		380V 3P 50Hz	380V 3P 50Hz
Overall Length (mm)	L	1500	1500
Overall Width (mm)	W	1500	1500
Overall Height (mm)	H	2650	2800
Weight (kg)		700	1000

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### APPLICATIONS

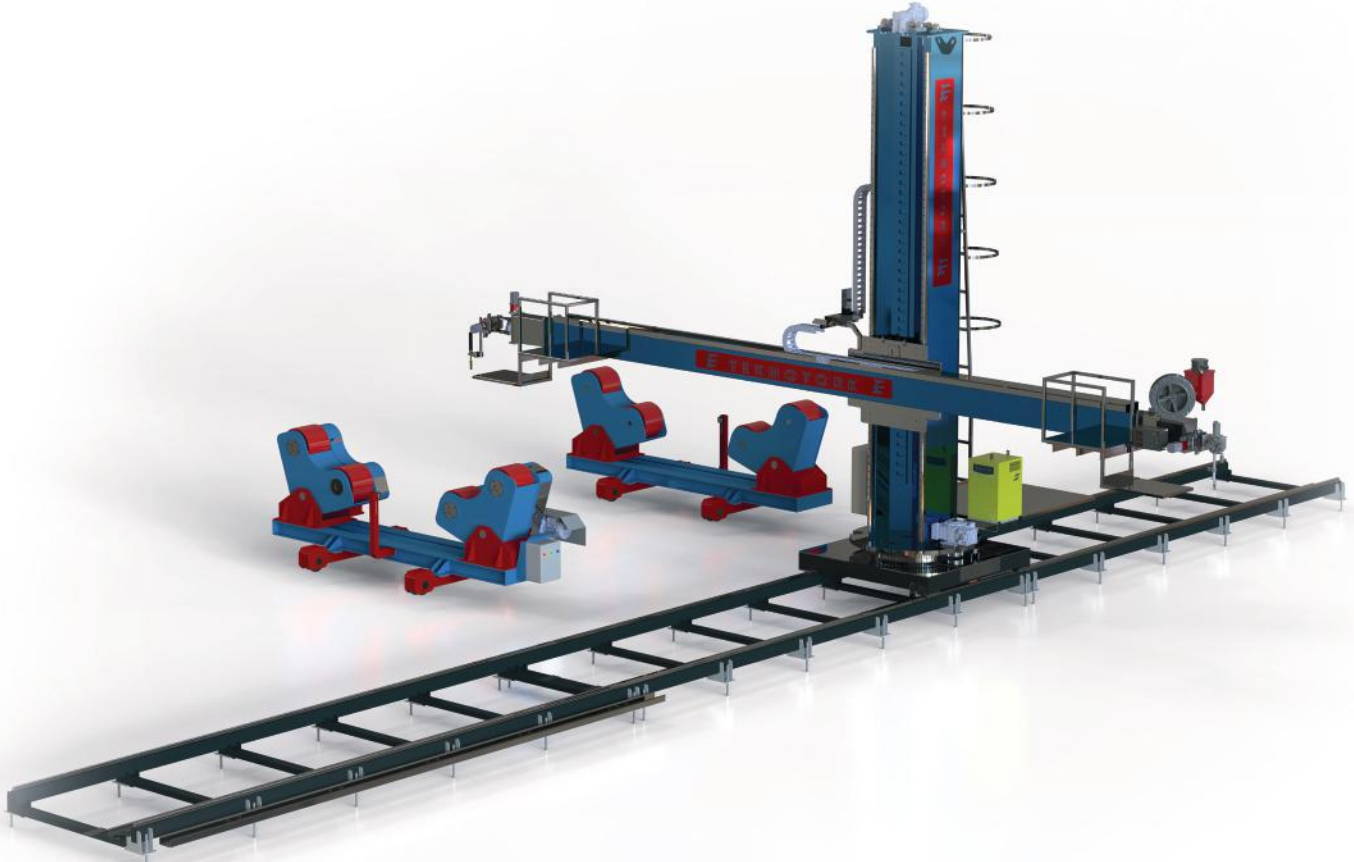




The Column and Boom welding systems, also referred to as Welding manipulators, have been meticulously engineered to enhance productivity and attain exemplary standards of quality. These systems are optimal solutions for mass production, especially for big workpieces, when it is used in combination with a rotator set or positioner.

Passive safety systems are available in all our Column and Booms such as an automatic lock, brake on a gear motor and safety chains in case of power failure.

The Column and Booms (Welding manipulators) can be combined with motorized undercarriage, column rotation for 270°, cross slide, flux recovery, seam tracking systems, etc.



### STANDARD FEATURES

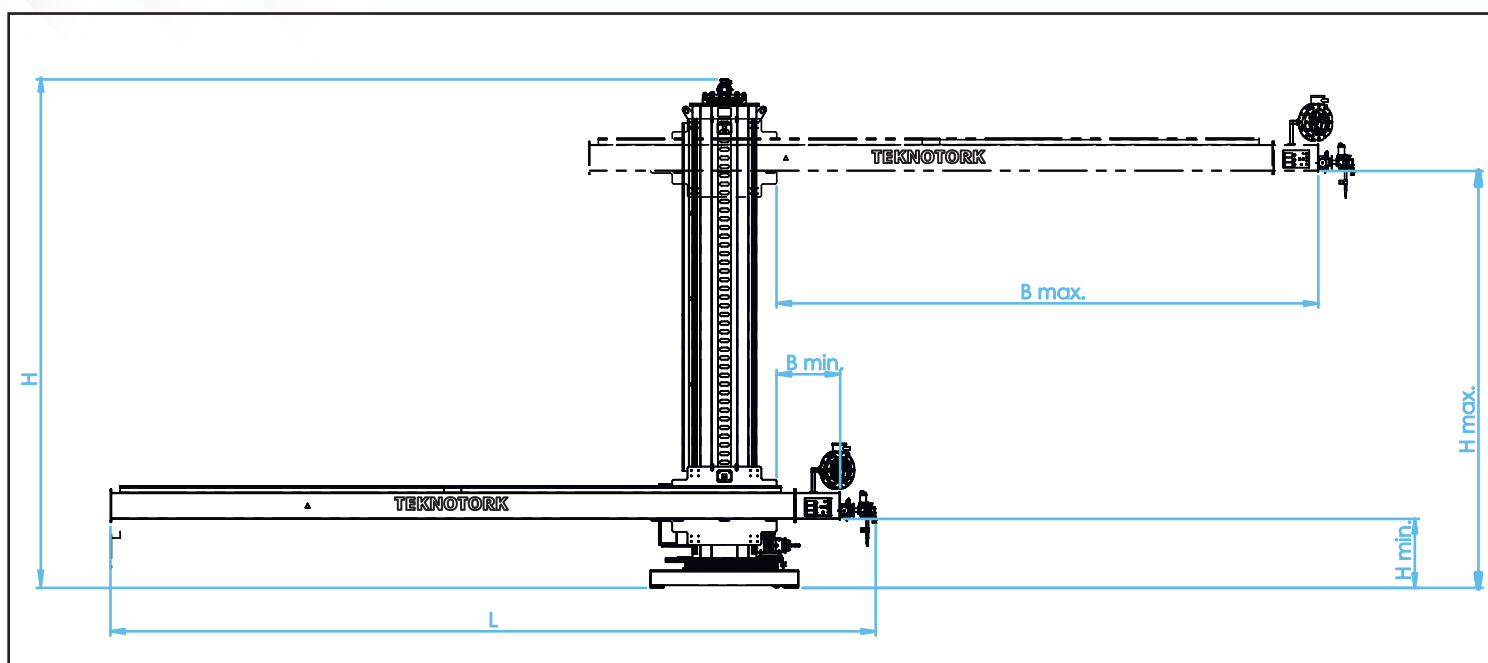
- 7' touch screen.
- Advanced PLC program.
- Adjustable linear Boom speed.
- Counterweight system for vertical movement of Boom.
- High-precision linear guides ensure smooth motion of all axes.
- Limit switches for terminating all movements.
- All programs can be saved to memory for immediate recall as required.
- Cable carrier (energy chain) to protect hoses and cables.
- Ladder at column side.
- Chain-counterweight balance system.
- Motor with brakes.
- Passive mechanical lock system against boom fall.
- Lighting lamp at the end of the boom.

### OPTIONAL FEATURES

- Laser pointer
- Flux recirculation system.
- Monitoring system with camera and 15" screen.
- Seam tracking system (laser or finger type)
- Cross slide x-y.
- Undercarriage with rails.
- Rotation angle of Column 270° (manual or motor driven)
- Operator seat.
- Combination with positioner, horizontal turntable, rotator, etc.



## COLUMN AND BOOM SYSTEMS

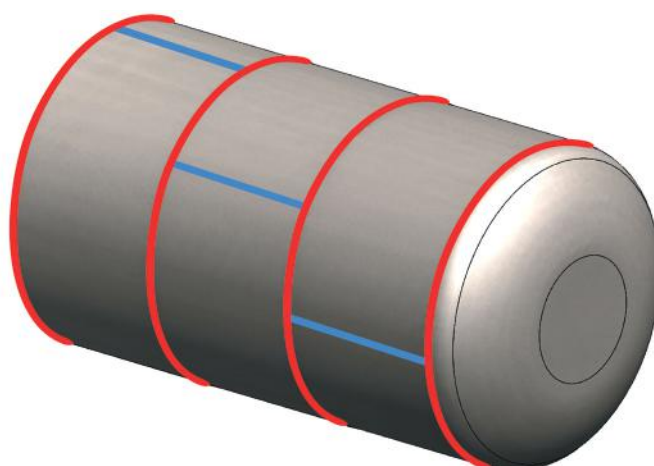


MODEL		TTMKBS 3X3	TTMDKM 4X4	TTMDKM 5X5	TTMDKM 6X6
Max. Load of Horizontal Boom (kg)		300	250	200	150
Boom Reach (mm)	Bmin	450	500	500	600
	Bmax	3450	4500	5500	6600
Working Height of Boom	Hmin	550	600	750	800
	Hmax	3550	4750	5750	6850
Overall Height	H	4500	5750	6900	8000
Speed of Vertical Axis (mm/min)		2000	2000	2000	2000
Speed of Horizontal Axis (mm/min)		125-1000	125-1000	125-1000	125-1000
Input Power		380V 3P 50Hz	380V 3P 50Hz	380V 3P 50Hz	380V 3P 50Hz

\* Capacities and sizes can be customized according to customer requirements.

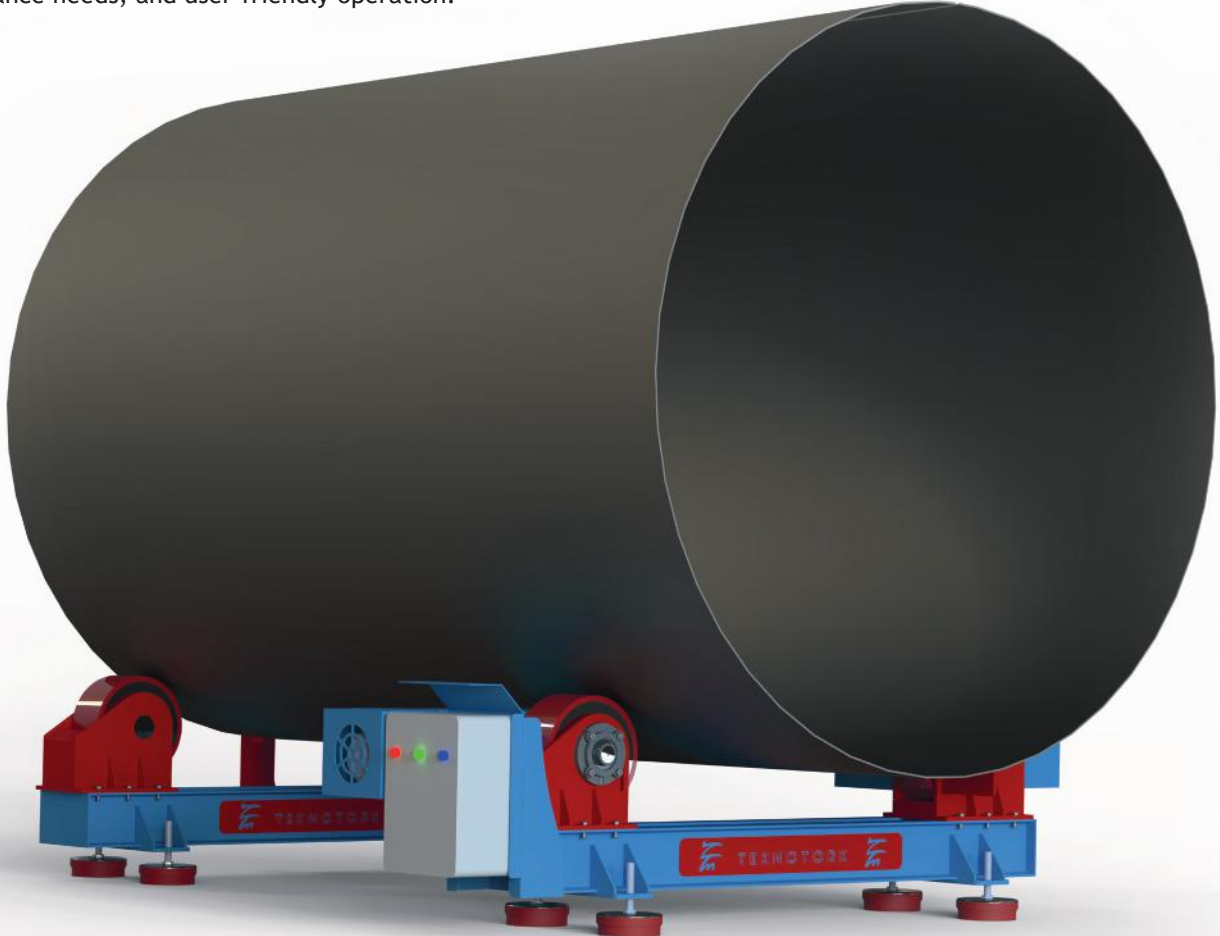
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## APPLICATIONS



Conventional Welding Rotators are comprised of a driven unit and an idler unit. Additional idler units may be incorporated as per the specific requirements of the pipe length or customer preferences.

The constant center line design is an effective method of adjusting the center position of the rollers, ensuring consistent alignment. The manual drag-clamp method is employed for diameter adjustment between the two rollers, offering practicality, low maintenance needs, and user-friendly operation.



### STANDARD FEATURES

- Pendant controller with 5m cable
- Polyurethane PU Rollers.
- Digital speed indicator on the pendant control for monitoring rotation.
- Adjustable rotating speed.
- Manual diameter adjustment of rollers on machined slides.
- Double foot pedal for left-right turning.
- Adjustable drive speed.
- AC motor with brake.

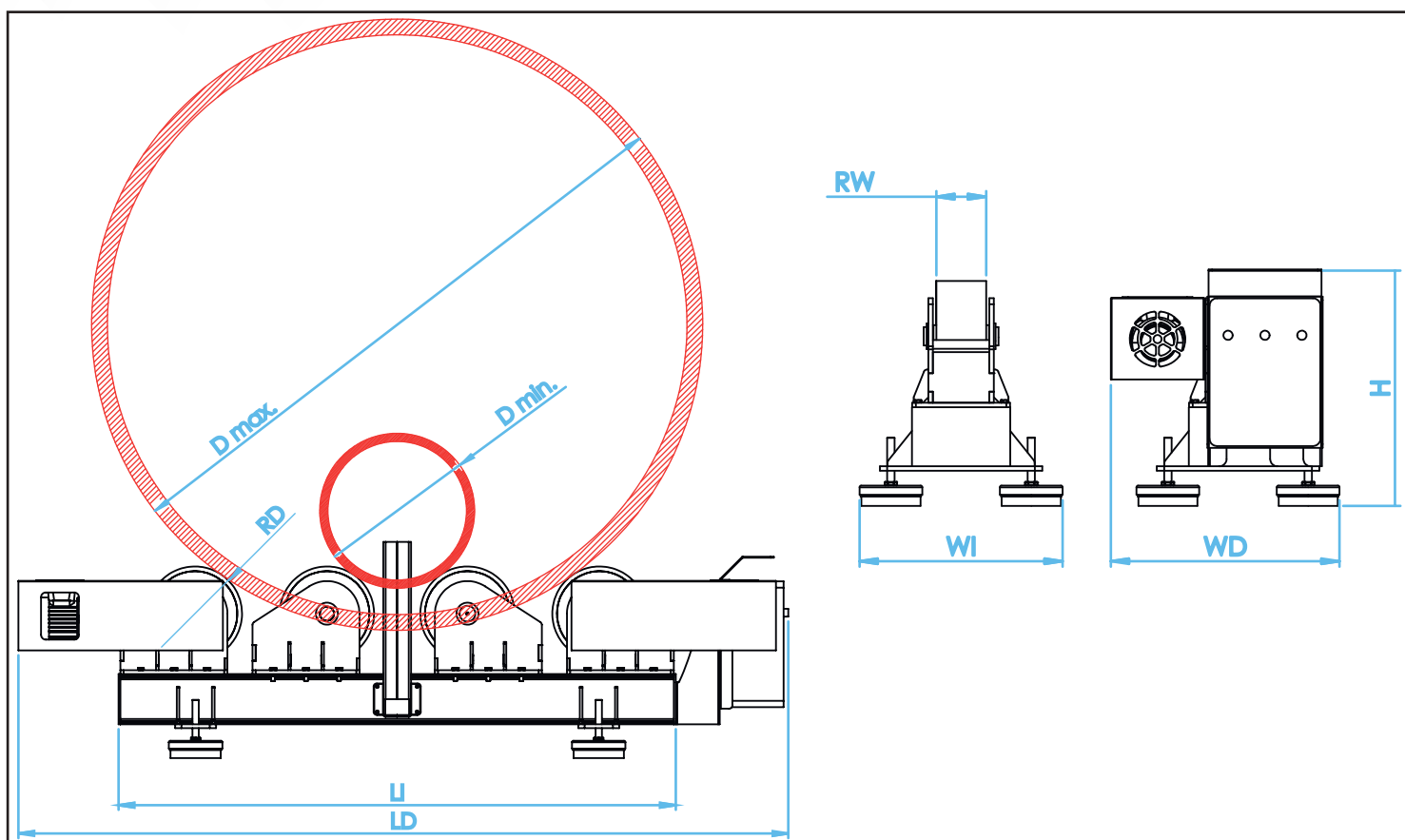
### OPTIONAL FEATURES

- 7' touchscreen.
- Wireless remote controller.
- High accuracy reducer no backlash with servo motor.
- Synchronous operation with column & boom.
- Auto diameter adjustment with Connecting Lead screw of rollers.
- Anti-drift device.
- Manual or motorized bogie undercarriages for use with floor rails.
- Additional idle sets.
- Steel roller for high temperature.





## CONVENTIONAL WELDING ROTATOR



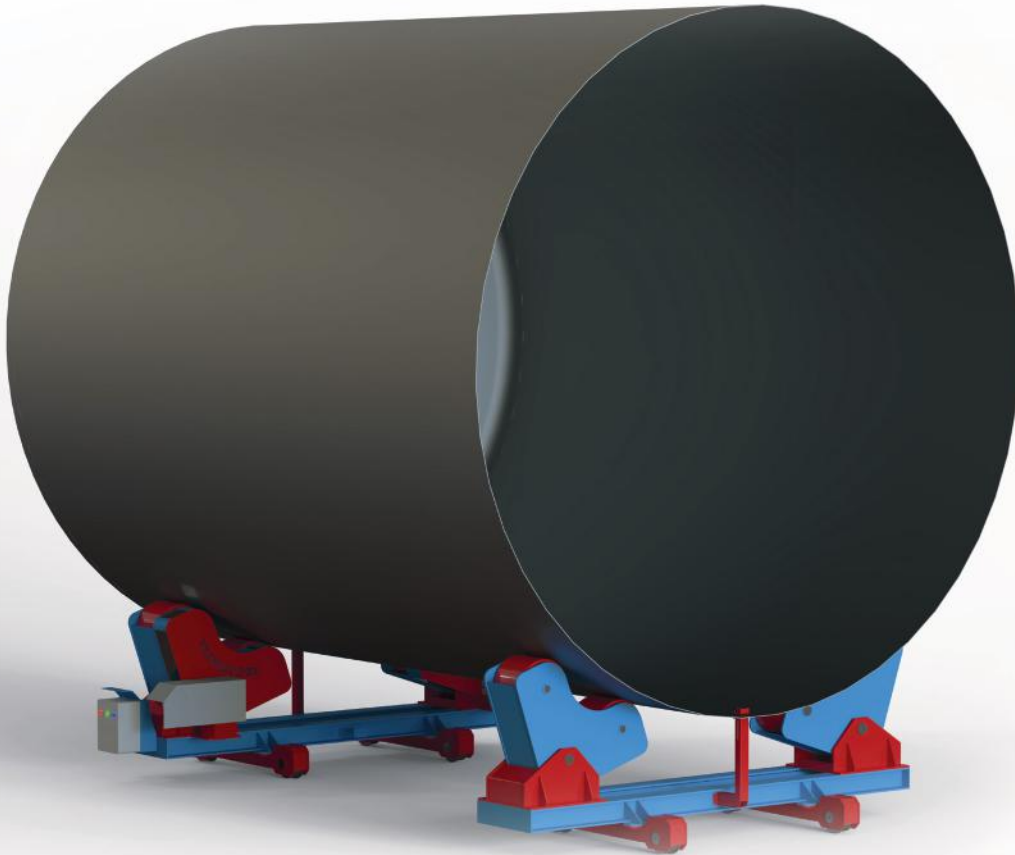
MODEL		TTMKROT-3	TTMKROT -5	TTMKROT-10	TTMKROT-20	TTMKROT-50	TTMKROT-80	TTMKROT-100
Load Capacity (kg)		3000	5000	10 000	20 000	50 000	80 000	100 000
Load Capacity per Unit (kg)		1500	2500	5000	10 000	25 000	40 000	50 000
Rotation Speed (mm/min)		200-1200	200-1200	200-1200	200-1200	200-1200	200-1200	200-1200
Diameter Range (mm)	D	200-2000	250-3000	250-3000	450-4500	450-4500	550-5500	600-6000
Roller Diameter (mm)	RD	200	250	300	300	350	400	450
Roller Width (mm)	RW	60	70	160	160	400	400	400
Roller Material		PU	PU	PU	PU	PU	Steel	Steel
Motor Power (kW)		0,37 x 1 pc	0,37 x 1 pc	0,55 x 2 pcs	0,37 x 2 pcs	0,75 x 2 pcs	1,1 x 2 pcs	1,5 x 2 pcs
Overall Length Idler (mm)	LI	1400	2000	2000	2800	2800	3650	4150
Overall Width Idler (mm)	WI	330	380	400	450	550	700	800
Overall Length Drive (mm)	LD	1700	2900	2900	3200	3550	4450	5000
Overall Width Drive (mm)	WD	700	500	550	700	1000	1100	1200
Top Height of Rollers (mm)	H	350	400	450	650	725	800	900
Total Weight (kg)		270	440	500	1100	1900	3100	4600
Input Power		380V 3PH 50Hz	380V 3PH 50Hz	380V 3PH 50Hz	380V 3PH 50Hz	380V 3PH 50Hz	380V 3PH 50Hz	380V 3PH 50Hz

\* Capacities and sizes can be customized according to customer requirements.

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Self Aligning Rotators automatically adjust the roller housings to comply with any vessel diameters within a specified diameter range. This type of rotator is designed to handle the change in vessel diameter, job to job. The roller housings which are hinged to the beds, open and close automatically, when the larger diameter vessels are loaded. The motor-reducer drive is given to both the 2 sets of rollers of the drive unit, to provide better traction to the vessel as in the conventional type.

Depending on the vessel, additional idle sets are recommended for workpieces longer than 10-15 meters.



### STANDARD FEATURES

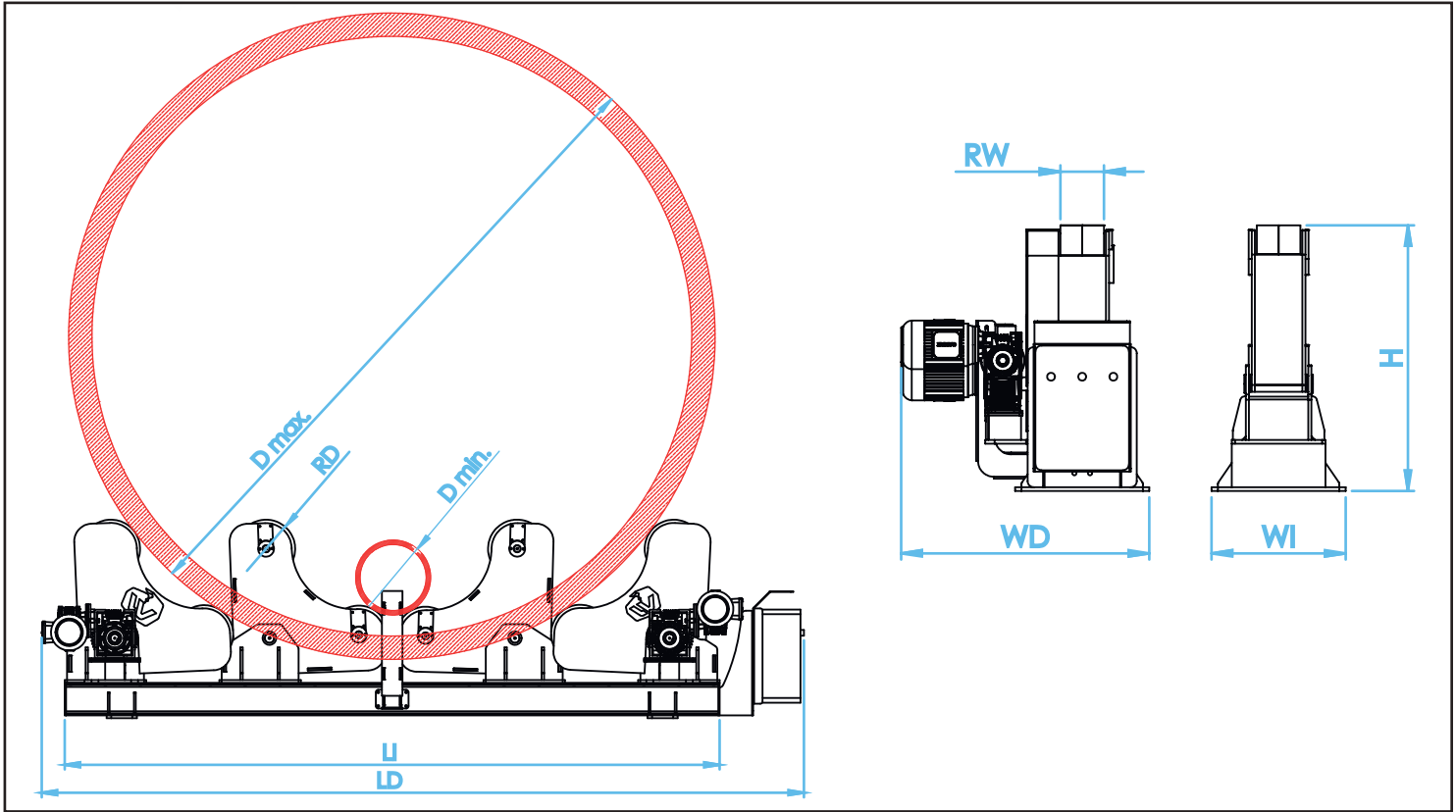
- Pendant controller with 5m cable.
- Polyurethane PU Rollers.
- Digital speed indicator on the pendant control for monitoring rotation.
- Adjustable rotating speed.
- Manual diameter adjustment of rollers on machined slides.
- Double foot pedal for left-right turning.
- Adjustable drive speed.
- AC motor with brake.

### OPTIONAL FEATURES

- 7" touchscreen.
- Wireless remote controller.
- High accuracy reducer no backlash with servo motor.
- Synchronous operation with column & boom.
- Manual or motorized diameter adjustment with Connecting Lead Screw of rollers.
- Anti-drift system.
- Manual or motorized bogie undercarriages for use with floor rails.
- Additional idle sets.
- Steel roller for high temperature.



## SELF ALIGNING WELDING ROTATOR



MODEL		TTMSROT-3	TTMSROT-5	TTMSROT-10	TTMSROT-20	TTMSROT-50	TTMSROT-80	TTMSROT-100
Load Capacity (kg)		3000	5000	10 000	20 000	50 000	80 000	100 000
Load Capacity per Unit (kg)		1500	2500	5000	10 000	25 000	40 000	50 000
Rotation Speed (mm/min)		200-1200	200-1200	200-1200	200-1200	200-1200	200-1200	200-1200
Diameter Range (mm)	D	230-2500	250-3000	450-3000	450-4600	500-4600	550-5500	600-5500
Roller Diameter (mm)	RD	200	200	250	300	380	400	450
Roller Width (mm)	RW	60	60	140	160	180	400	400
Roller Material		PU	PU	PU	PU	PU	PU	Steel
Motor Power (kW)		0,37 x 1 pc	0,37 x 1 pc	0,37 x 2 pcs	0,55 x 2 pcs	0,75 x 2 pcs	1,1 x 2 pcs	1,5 x 2 pcs
Input Power		380V 3PH 50Hz	380V 3PH 50Hz	380V 3PH 50Hz	380V 3PH 50Hz	380V 3PH 50Hz	380V 3PH 50Hz	380V 3PH 50Hz
Overall Length Idler (mm)	LI	1040	1150	2000	2100	2350	2850	2870
Overall Width Idler (mm)	WI	330	350	500	550	700	700	900
Overall Length Drive (mm)	LD	1350	1500	2600	2600	2800	3300	3300
Overall Width Drive (mm)	WD	570	600	750	1050	1150	1250	1450
Top Height of Rollers (mm)	H	525	525	880	940	1040	1350	900
Total Weight (kg)		400	400	1100	1350	2600	5350	6250

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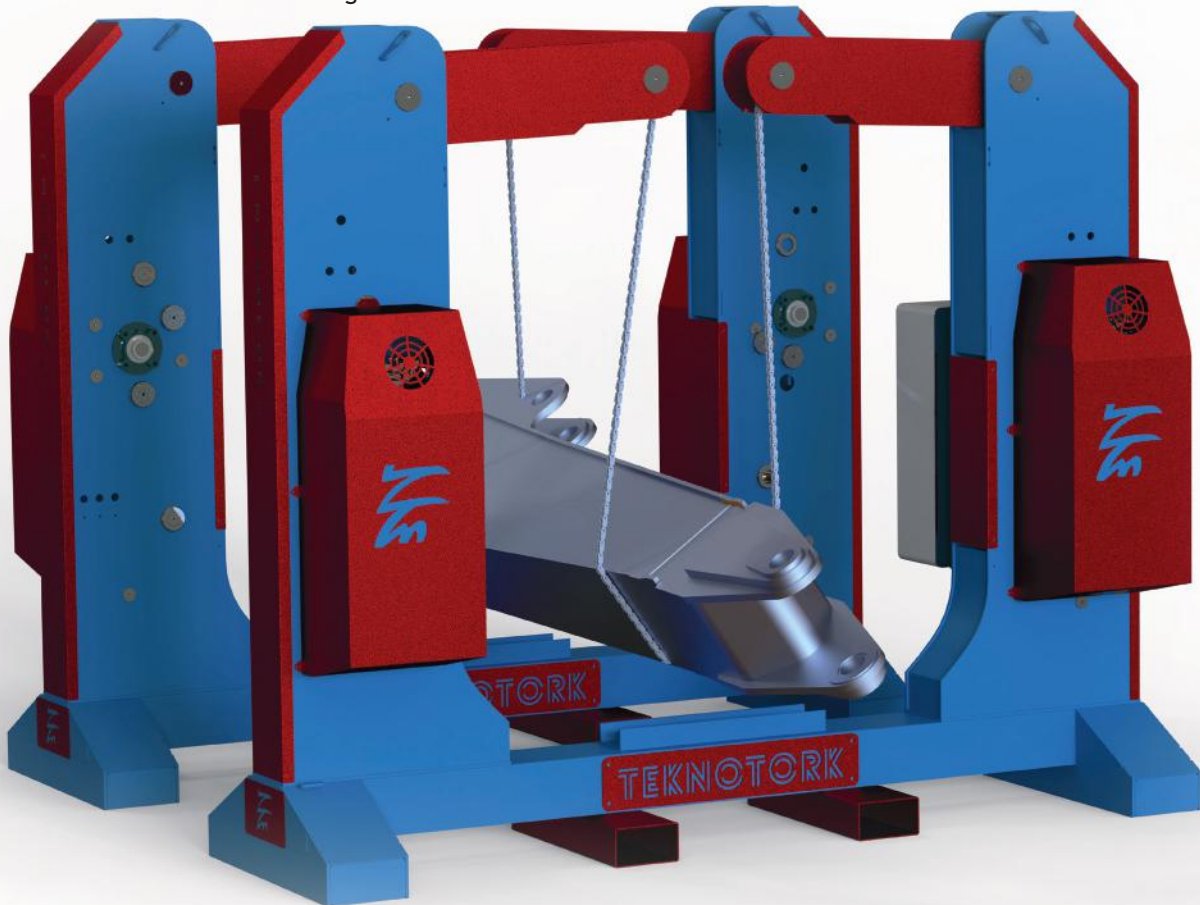


## CHAIN TYPE ROTATOR

The Chain-Type Rotator has been specifically engineered to facilitate the rapid and secure rotation of substantial and sizable loads, including H, I, T, and W beams, pipes, welded structures, and steel constructions. This innovative solution eliminates the necessity for crane utilization while ensuring utmost safety.

The chain-type rotator comprises of two rotators, with each rotator performing the functions of lifting and rotating. These functions have the capability to be controlled either synchronously or independently. This particular type of rotator demonstrates its versatility in not only being suitable for H, I, T, and W beams but also excelling as a turning device for steel structures, pipes, crane beams, mobile crane booms, steel masts, and various other applications. The integration of vertically opening and closing ladders ensures a straightforward loading process with a crane.

The rotator is also equipped with the option of rollers or an undercarriage situated at the bottom of the legs. Nevertheless, smaller models can be conveniently positioned by means of a forklift or pallet truck, facilitating effortless adjustment of the distance between the legs of the rotator.



### STANDARD FEATURES

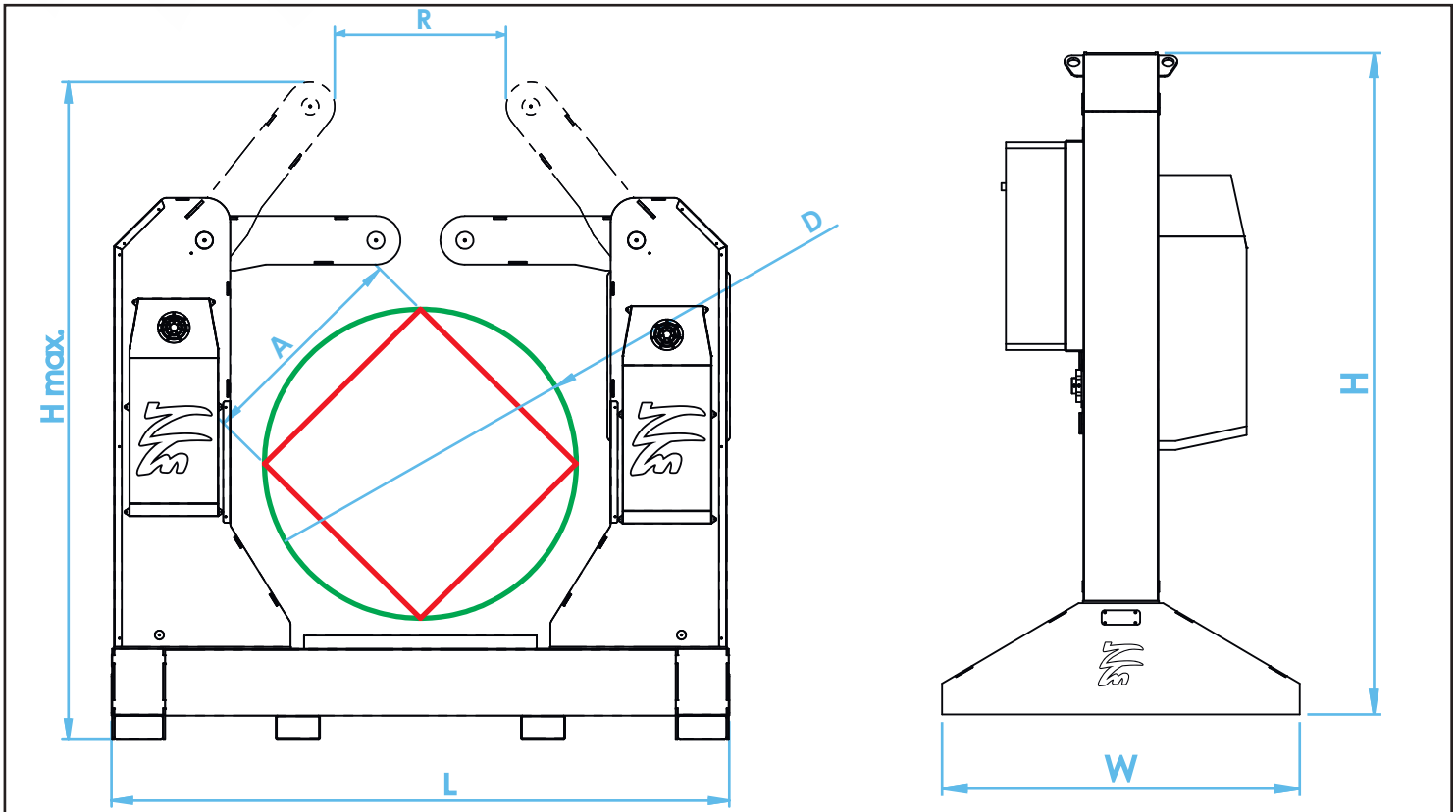
- Pendant controller with 5m cable
- AC drive for roller rotation.
- Heavy Duty Drive Chains & Sprockets structure.
- Motors with brake and fan coolers.

### OPTIONAL FEATURES

- Double foot pedal for left-right turning.
- Wireless remote controller.
- Manual or motorized bogie undercarriages for use with floor rails.



## CHAIN TYPE ROTATOR



MODEL		TTMZC-3	TTMZC-5	TTMZC-10
Loading Capacity (kg)		3000	5000	10 000
Loading Capacity per Unit (kg)		1500	2500	5000
Workpiece Dimensions (mm)	A	900x900	900x900	1200x1200
Workpiece Diameter (mm)	D	1200	1200	1700
Distance between Rolls (mm)	R	1300	1300	1800
Rotation Speed (rpm)		6	5	4
Rotation Motor Power (kW)		4pcs*0,55	4pcs*1,1	4pcs*2,2
Maximum Height	H max.	2750	2750	3500
Input Power		380V 3PH 50Hz	380V 3PH 50Hz	380V 3PH 50Hz
Overall Length	L	3100	3100	3800
Overall Width	W	1200	1200	1600
Overall Height	H	2250	2250	2250
Weight		2200	2500	3000

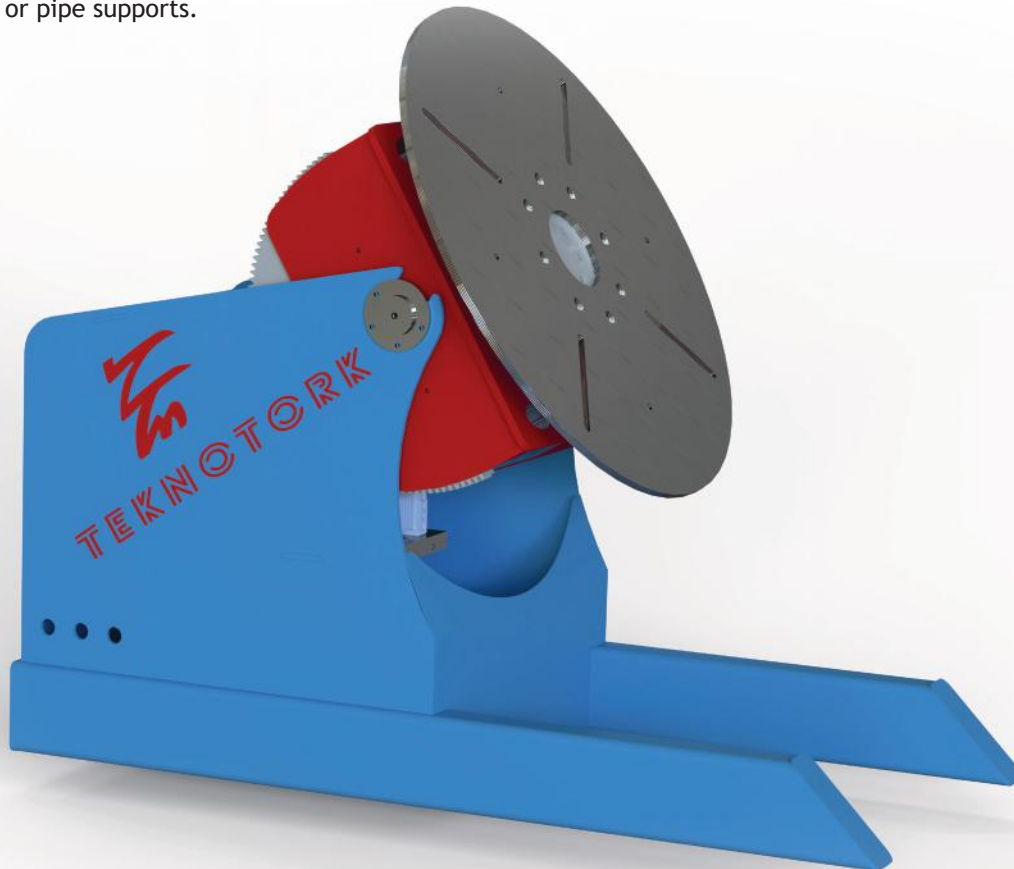
\* Capacities and sizes can be customized according to customer requirements.

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The intended use of the welding positioner is to ensure that the job is positioned appropriately for welding. Welding positioners are equipment specifically designed to securely hold, tilt, and rotate industrial workpieces, such as flanges and pipes, through a full 360 degrees. This enables the operator to work at an optimal position and on a stable surface. The table (disk) of the positioner features channels and holes which allow for the secure fixation of various products, including pipes, molds, or flanges of different sizes.

One of the key benefits of utilizing a welding positioner is its ability to accommodate workpiece angulations that would not be feasible with a crane. Therefore, weld positioners are extensively employed within metal fabrication industries for shaping metal parts or components.

Depending on customer requirements, the welding positioner can be utilized either individually or in combination with welding manipulators or pipe supports.



### STANDARD FEATURES

- Pendant controller with 5m cable.
- Digital speed indicator on the pendant control for monitoring rotation.
- Table rotating speed control.
- Double foot pedal for left-right turning.
- Machined table with M16 holes and T type slots for fixing workpiece.
- Adjustable drive speed.
- AC drive for rotation and tilt.

### OPTIONAL FEATURES

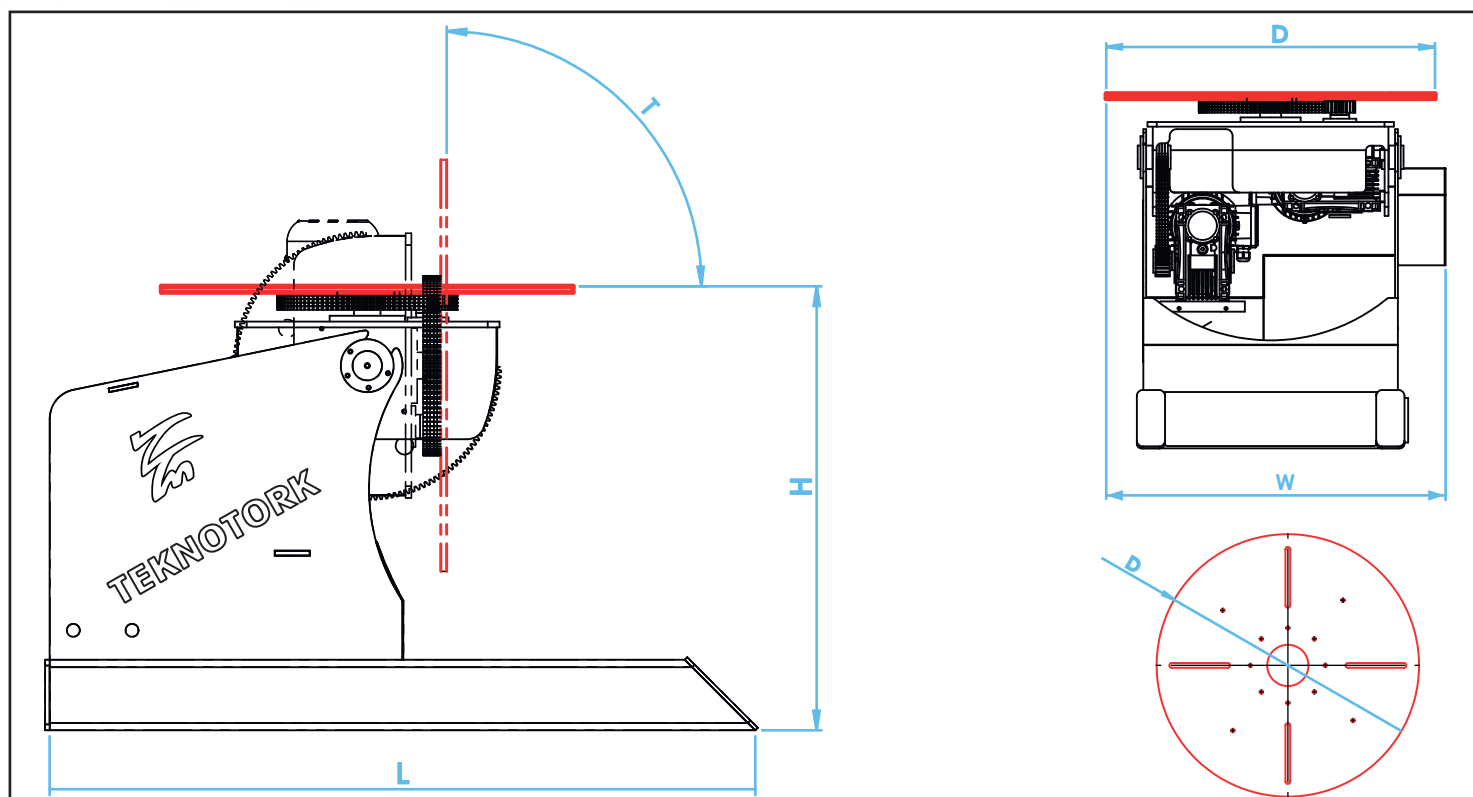
- 3-jaw chuck on table.
- 7' touchscreen.
- Wireless remote controller.
- High accuracy reducer no backlash with servo motor.
- Hydraulic clamping chuck.
- Synchronous operation with column & boom.
- Additional slots and holes on the table.
- Custom-made according to requirements.
- Ground Capacity: 200 Amp, 400 Amp, 800 Amp





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## GEAR TILT POSITIONER



MODEL			TTMPOZ-500	TTMPOZ-1	TTMPOZ-3
Load Capacity (kg)			500	1 000	3 000
Table Turning Capacity (kg)			500	1 000	3 000
Eccentricity (mm)			150	150	150
Center of Gravity (mm)			150	150	150
Table Size (mm)	D		700	1150	1250
Tilting Angle (°)	T		90°	90°	90°
Turning Speed (rpm)			0,2 - 2	0,15 - 1,5	0,1 - 1
Welding Current (A)			400	600	600
Input Power			380V 3P 50Hz	380V 3P 50Hz	380V 3P 50Hz
Overall Width (mm)	W		700	1150	1250
Overall Height (mm)	H		750	1150	1250
Overall Length (mm)	L		1150	1850	2000
Weight (kg)			450	1450	1850

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Teknotork Engineering Company offers a comprehensive selection of welding positioners suitable for both automatic and manual welding applications. These versatile machines facilitate welding in optimal positions, thus enhancing the quality and efficiency of work.

Furthermore, our Gear Positioner models are equipped with hydraulic height adjustment capabilities. This feature makes them highly suitable for the manipulation of tilting, rotating, and lifting workpieces as required. The control system is user-friendly and reliable, featuring a wired pendant control that includes all standard functions. Additionally, footswitches are provided for convenient left-right rotation of the table.



### STANDARD FEATURES

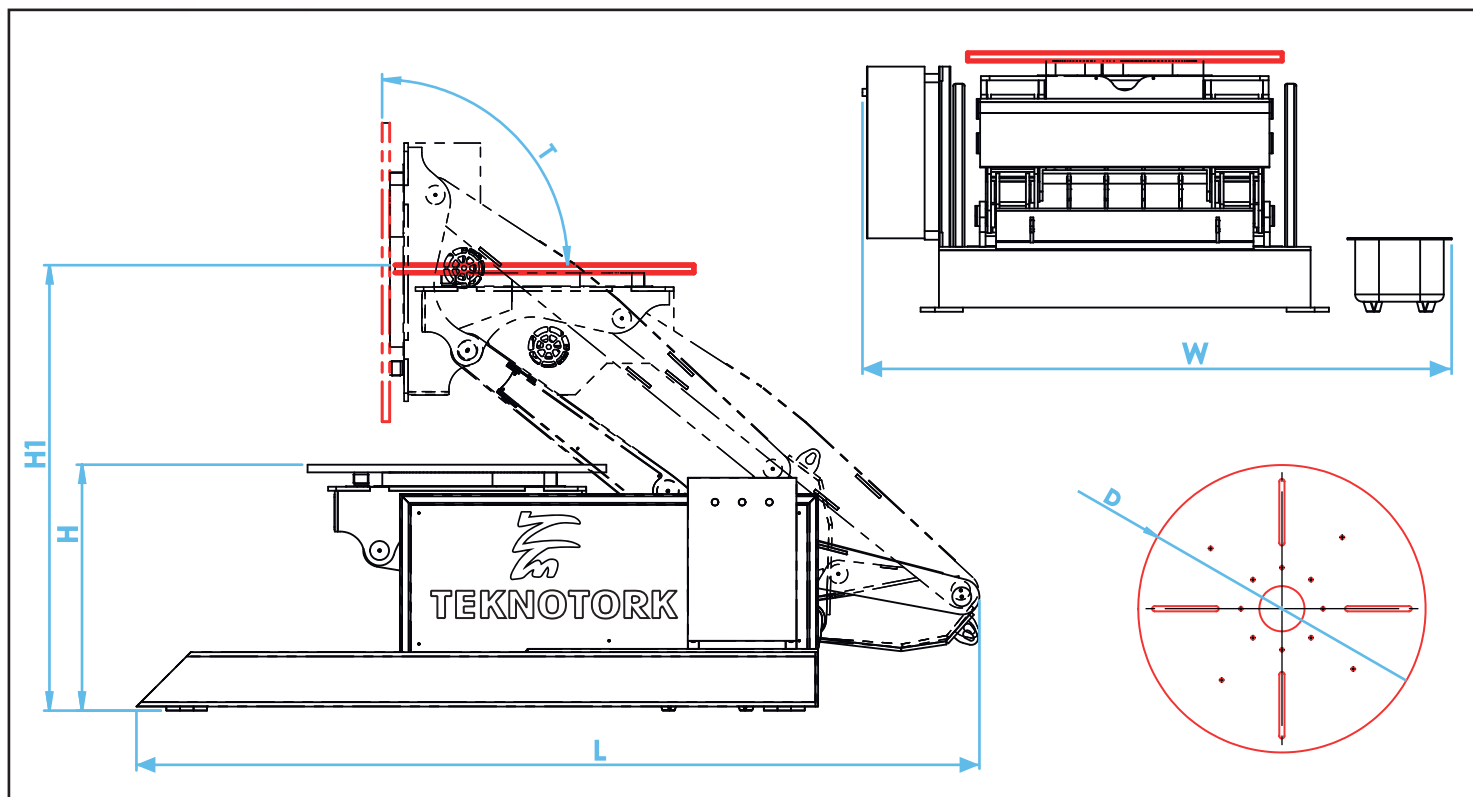
- Pendant controller with 5m cable.
- Digital speed indicator on the pendant control for monitoring rotation.
- Table rotating speed control.
- Double foot pedal for left-right turning.
- Hydraulic elevation.
- Machined table with M16 holes and T type slots for fixing workpiece.
- Adjustable drive speed.
- AC drive for rotation and tilt.

### OPTIONAL FEATURES

- 3-jaw chuck.
- 7' touchscreen.
- Wireless remote controller.
- High accuracy reducer no backlash with servo motor.
- Hydraulic clamping chucks.
- Synchronous operation with column & boom.
- Additional slots on the table.
- Custom-made according to requirements.
- Ground Capacity: 200 Amp, 400 Amp, 800 Amp



## HYDRAULIC WELDING POSITIONER



MODEL			TTMPPOZ-1	TTMPPOZ-3	TTMPPOZ-5
Load Capacity (kg)			1 000	3 000	5 000
Table Turning Capacity (kg)			1 000	3 000	5 000
Eccentricity (mm)			200	200	200
Center of Gravity (mm)			250	300	300
Table Height from Floor (mm)	H1		800-1300	850-1400	900-1500
Table Size (mm)	D		1000	1100	1250
Table Shape			Circular	Circular	Circular
Tilting Angle (°)			90°	90°	90°
Turning Speed (rpm)			0,15 - 1,15	0,15 - 1	0,08 - 0,8
Welding Current (A)			300	400	500
Input Power			380V 3P 50Hz	380V 3P 50Hz	380V 3P 50Hz
Overall Width (mm)	W		1300	1400	1500
Overall Height (mm)	H		800	850	900
Overall Length (mm)	L		2800	3000	3100
Weight (kg)			1700	1800	2000

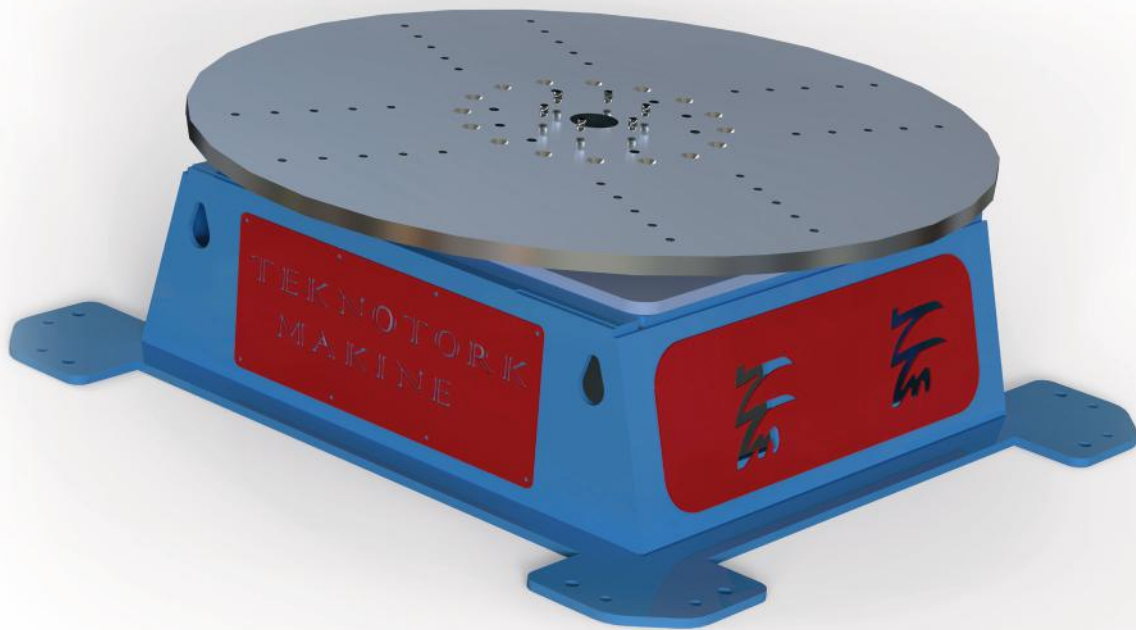
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The horizontal turntable has been specifically engineered for the purpose of welding, surfacing, or cutting pipes, flange plates, pipelines, and other types of workpieces. Additionally, this welding positioner is well-suited for tasks such as assembling, cutting, inspecting, sanding, and painting workpieces.

Due to its horizontal design, this positioner allows for the fixation of a workpiece at a lower level compared to tilt-capable positioners. Moreover, it can be customized with an expanded range of table or clamp options to cater to the specific requirements of users.

Notably, when combined with other equipment like Column & Boom, this positioner can serve as a crucial component that enhances the functionality of the entire system.



### STANDARD FEATURES

- Pendant controller with 5m cable.
- Digital speed indicator on the pendant control for monitoring rotation.
- Table rotating speed control.
- Double foot pedal for left-right turning.
- Machined table with M16 T type slots.
- Adjustable drive speed.
- AC drive for rotation.

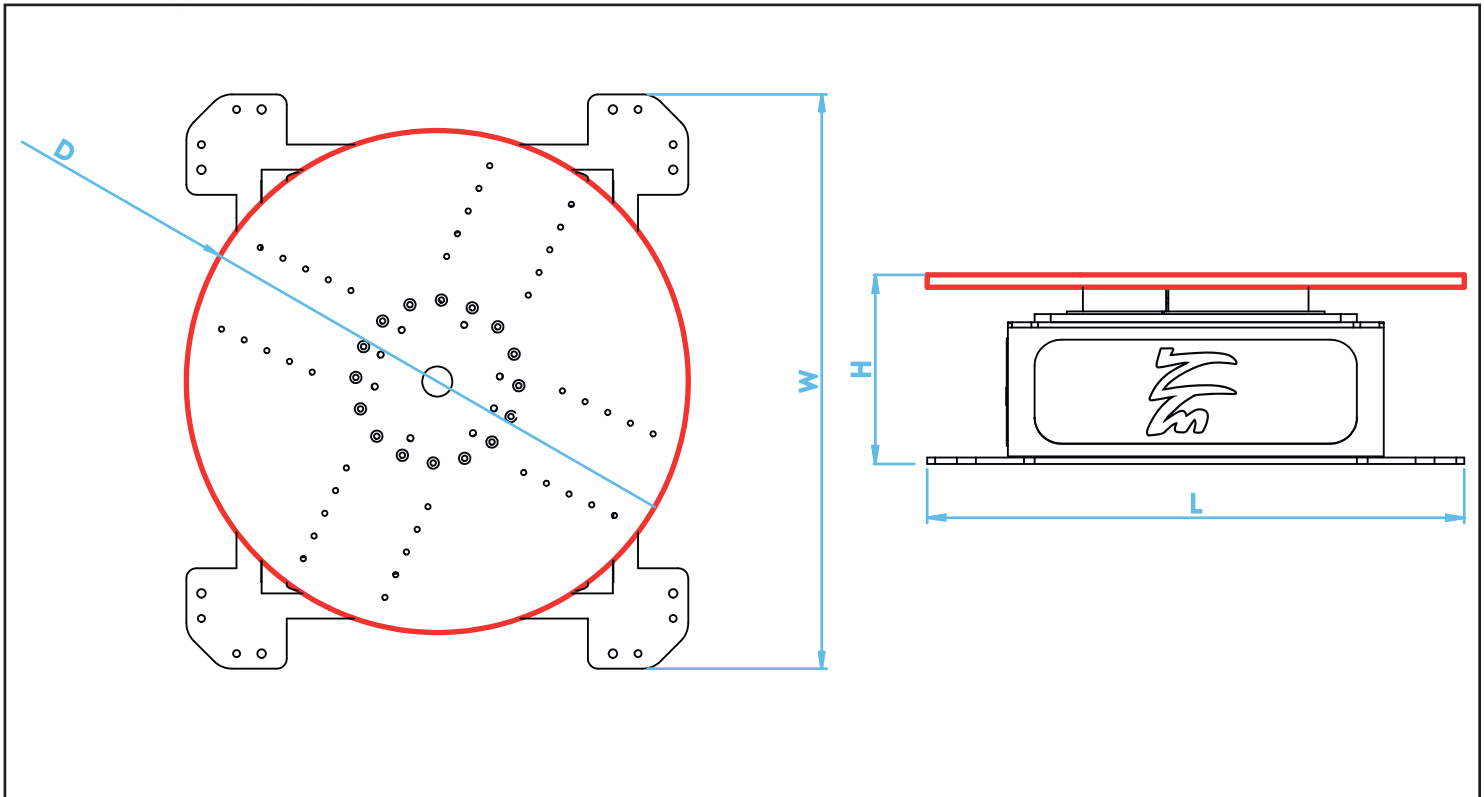
### OPTIONAL FEATURES

- 3-jaw chuck.
- 7' touchscreen.
- Wireless remote controller.
- High accuracy reducer no backlash with servo motor.
- Hydraulic clamping chucks.
- Additional slots on the table.
- Special tables custom-made according to requirements.





## HORIZONTAL TURN TABLE



MODEL		TTMDT-1	TTMDT-3	TTMDT-5	TTMDT-10	TTMDT-20
Load Capacity (kg)		1 000	3 000	5 000	10 000	20 000
Table Turning Capacity (kg)		1 000	3 000	5 000	10 000	20 000
Eccentricity (mm)		150	150	150	150	150
Center of Gravity (mm)		150	150	150	150	150
Turning Speed (rpm)		0,15 - 1,5	0,1 - 1	0,08 - 0,8	0,075 - 0,75	0,05 - 0,5
Table Size (mm)	D	1150	1250	1350	1650	1850
Table Shape		Circular	Circular	Circular	Circular	Circular
Welding Current (A)		400	600	600	600	1200
Input Power		380V 3P 50Hz	380V 3P 50Hz	380V 3P 50Hz	380V 3P 50Hz	380V 3P 50Hz
Overall Width (mm)	W	1150	1250	1350	1650	1850
Overall Height (mm)	H	550	550	550	650	650
Overall Length (mm)	L	1150	1250	1350	1650	1850
Weight (kg)		500	700	900	1350	1500

\* Capacities and sizes can be customized according to customer requirements.

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L-type welding positioners have been designed to achieve optimum position for a wide range of applications, including welding, handling, and assembly. The positioning is applicable in three independent axes.

Utilizing an electric drive, the L-shaped arm's tilt axes and the table's horizontal axes can be adjusted both clockwise and counterclockwise on the radial axis bearing. For lifting the L-shaped arm, an electrically driven ball screw is employed, while hydraulic systems are favored in heavier models.



### STANDARD FEATURES

- Pendant controller with 5m cable.
- Digital speed indicator on the pendant control for monitoring rotation.
- Table rotating speed control.
- Double foot pedal for left-right turning.
- Machined table with M16 T type slots.
- Adjustable drive speed.
- AC drive for rotation.

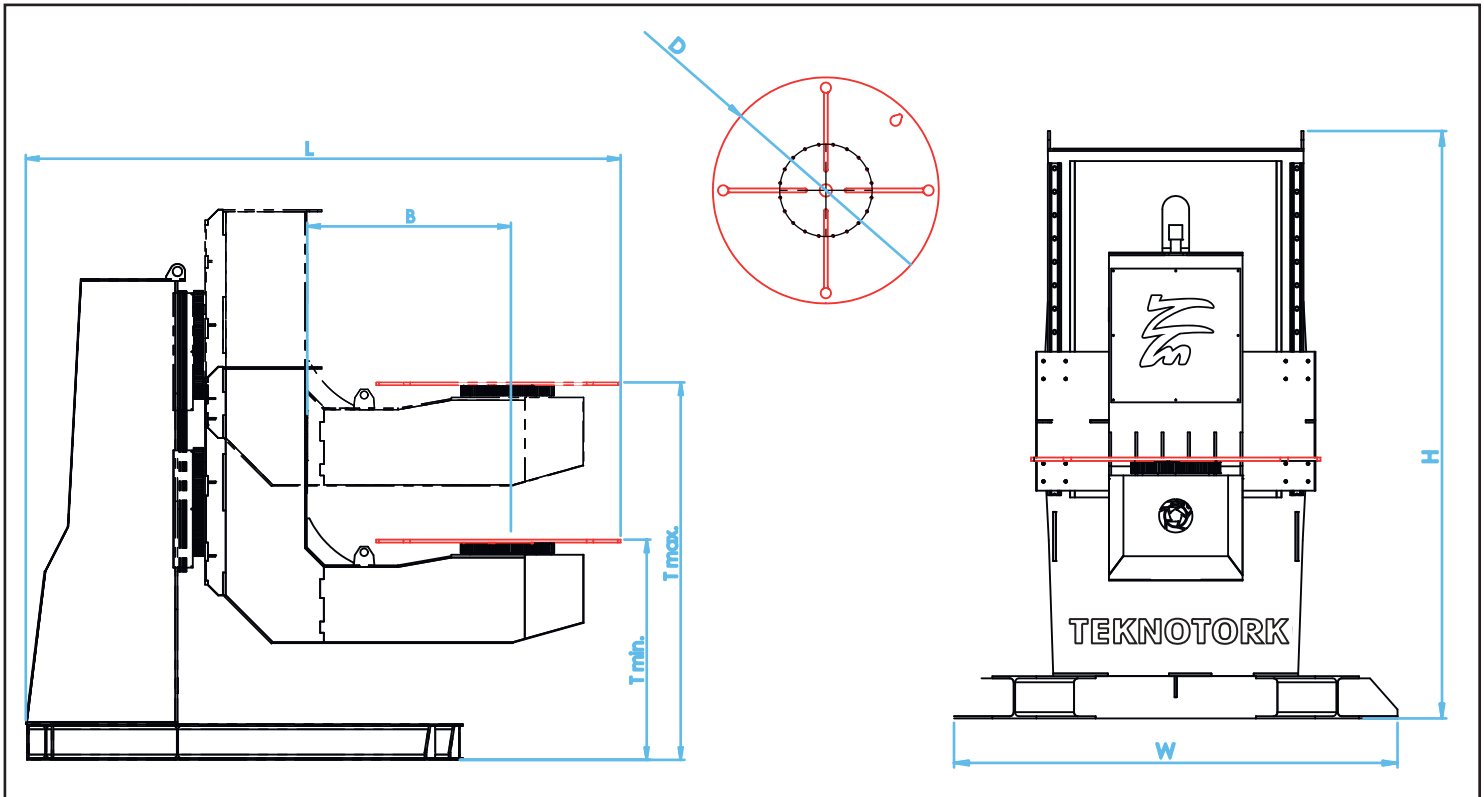
### OPTIONAL FEATURES

- 3-jaw chuck.
- 7" touchscreen.
- Wireless remote controller.
- High accuracy reducer no backlash with servo motor.
- Clamping chuck.
- Additional slots on the table.
- Special tables custom-made according to requirements.



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## L-TYPE POSITIONER



MODEL		TTMLPOZ-1	TTMLPOZ-3	TTMLPOZ-5
Load Capacity (kg)		1 000	3 000	5 000
Table Tilt/Turning Capacity (kg)		1 000	3 000	5 000
Eccentricity (mm)		150	150	150
Center of Gravity (mm)		150	150	150
Table Size (mm)	D	850	1000	1150
Min. Table Height (mm)	Tmin	850	1100	1100
Max. Table Height (mm)	Tmax	1850	2250	2300
Working Radius (mm)		1300	1600	1700
Table Turning Speed (rpm)	R	0,15 - 1,5	0,1 - 1	0,08 - 0,8
Tilting Speed (rpm)		0,2-1,4	0,2-1	0,15-0,78
Lifting Speed (mm/min)		1000	90	650
Welding Current (A)		250	500	500
Input Power		380V 3P 50Hz	380V 3P 50Hz	380V 3P 50Hz
Overall Width (mm)	W	1400	1500	1750
Overall Height (mm)	H	2550	3000	3550
Overall Length (mm)	L	2900	3150	3650
Weight (kg)		2500	2800	3200

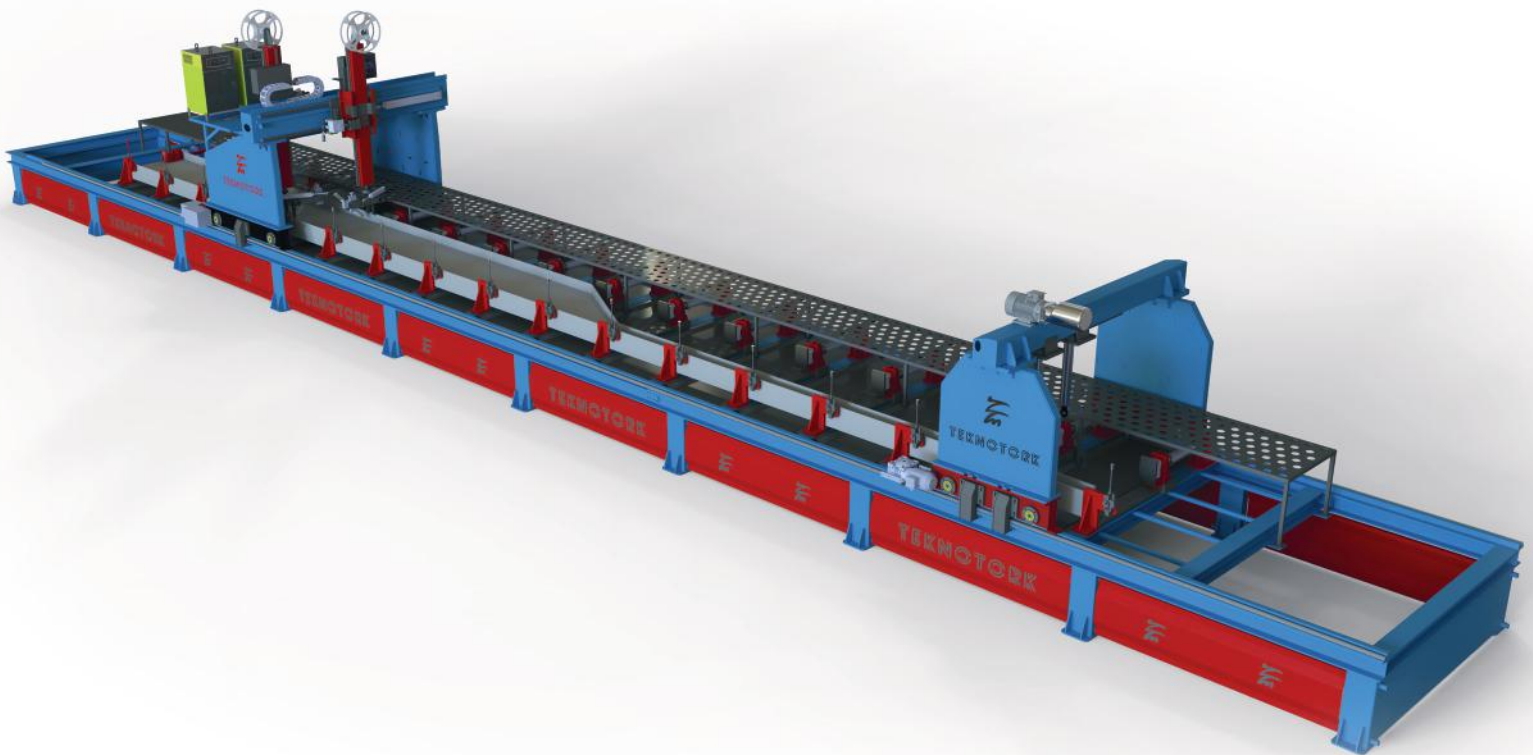
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The Gantry Welding Machine is used for longitudinal seam welding, with dual welding heads working at the same time. It is especially useful for welding irregular beams. This machine is commonly used in the vehicle industry and for producing H-shaped steel structures and overhead cranes.

The gantry welding machine uses advanced PLC program technology that can control the welding length and speed of the dual torch. The pneumatically controlled roller tracking system enables the torches to weld beams with a horizontal inclination of up to 30 degrees, all without requiring any intervention from the operator. It also has an assembly table with hydraulic cylinders to prevent damage from high temperatures during welding.

Additionally, the machine has a Tack Welding Bridge with two hydraulic cylinders for optimal assembly before welding. It provides stable welding quality, easy operation, and high efficiency mass production.



### STANDARD FEATURES

- 7' touch screen.
- Advanced PLC program.
- Hydraulic cylinders to prevent any damage or flexing caused by high temperature.
- Tack welding gantry.
- High-precision linear guides ensure smooth motion of all axes.
- Visual seam tracking system with rollers.
- Automatic torch and gantry retraction.
- All programs can be saved to memory for immediate recall as required.
- Standard cable carrier to protect hoses and cables.

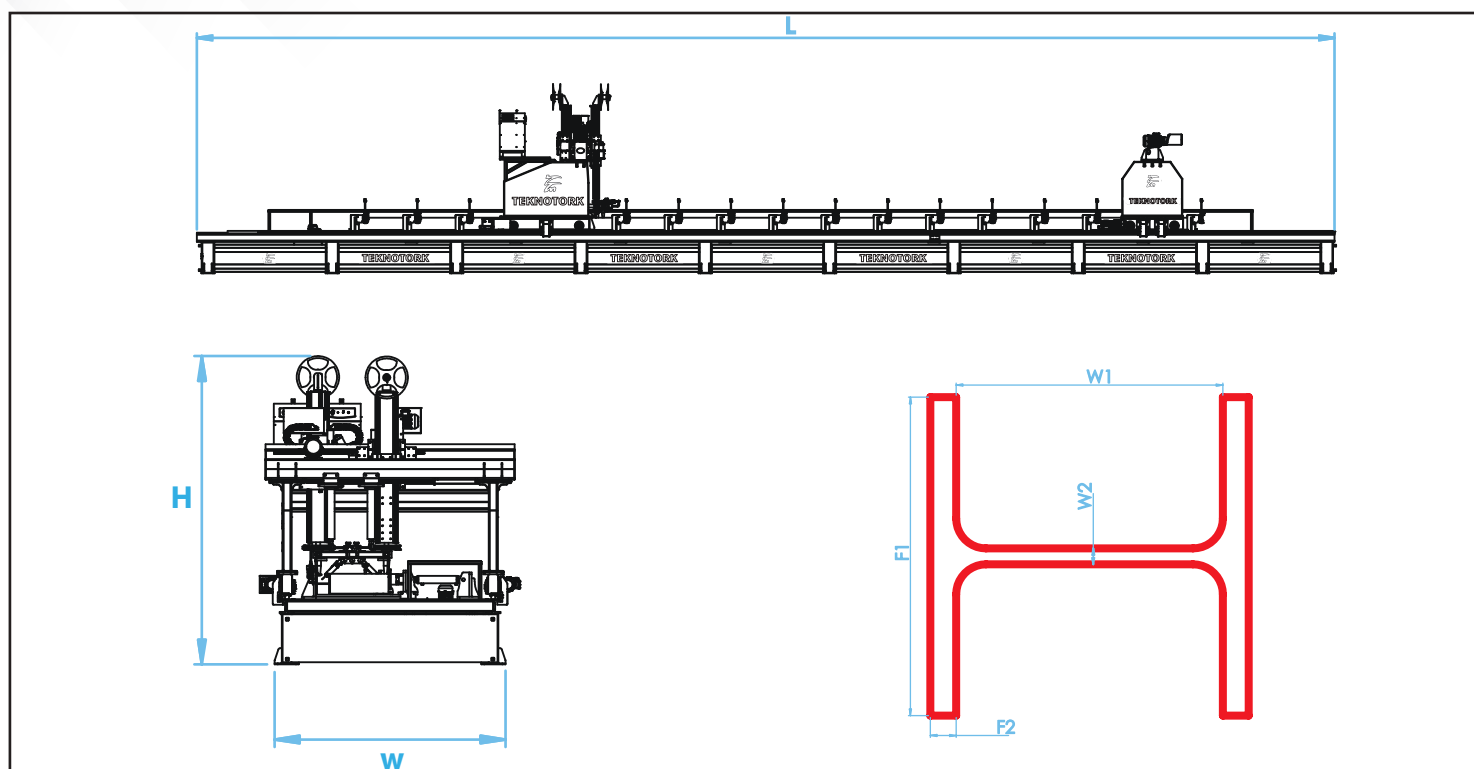
### OPTIONAL FEATURES

- Laser seam tracking system.
- Additional assembly table that allows loading and tack welding on one beam, while making seam welding on the second, to speed up mass production.
- Flux recirculation system.
- Monitoring system with camera and 15' screen.





## GANTRY WELDING MACHINE



MODEL			TTMSKM-14
Beam Length (mm)			14 000
Flange Height (mm)	F1		120-350
Web Width (mm)	W1		200-800
Web Thickness (mm)	W2		5-20
Flange Thickness (mm)	F2		5-30
Hydraulic Cylinder for Assembly			14 pcs
Press type			Hydraulic
Overall Width (mm)	W		2250
Overall Height (mm)	H		3000
Overall Length (mm)	L		17 500
Weight (kg)			9 000

\* Capacities and sizes can be customized according to customer requirements.

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## APPLICATIONS



### OSCILLATION SLIDER



- Vertical Movement 150mm

■ Sizes can be customized according to customer requirements.

### MANUAL CROSS SLIDER



- Vertical Movement 75mm
- Horizontal Movement 75mm

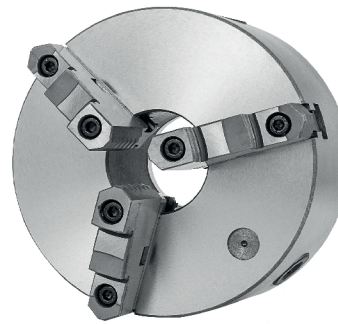
■ Sizes can be customized according to customer requirements.

### TORCH STAND



- Strokes can be customized according to customer requirements.
- Can be used in a combination with positioners.

### JAW CHUCK



- 3 jaw.
- Diameter Range: 160, 200, 300, 500mm.
- Hydraulic centering available.

■ Number of the jack and sizes can be customized according to workpiece.

### CHILLER WATER COOLER



■ Power can be customized according to customer requirements.

### BLOWER / FLUX VACUUM



■ Flux tank and power of the system can be customized according to vacuum distance.



## OPTIONAL EQUIPMENT

### CONTROL PANEL WITH TOUCHSCREEN



- Screen size and number of buttons can be customized according to customer requirements.

### WIRED / WIRELESS CONTROL



- Number of the buttons and functions can be customized according to machine.

### FOOT PEDAL



- Function: Start / Stop

- Double Footpedal can be equipped for table rotations (left-right) of the positioners.

### MONITORING SYSTEM



- Screen sizes can be customized according to customer requirements.

### TRAVEL CAR SEAM WELDING MACHINE



- Manual or Motorized horizontal movement.
- Pneumatic, Motor or hydraulic lifting

- Strokes can be customized according to customer requirements.

### PIPE STAND

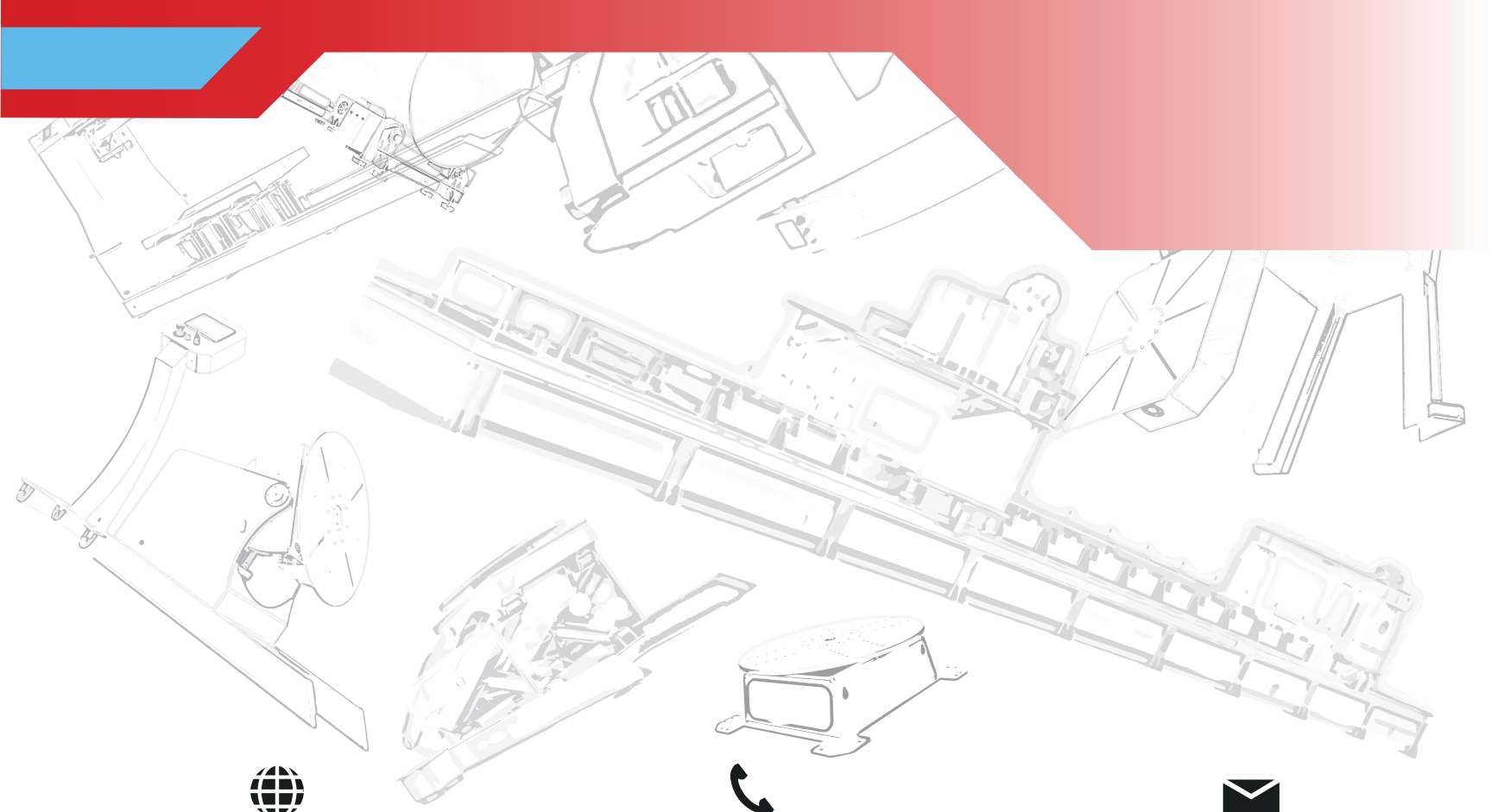
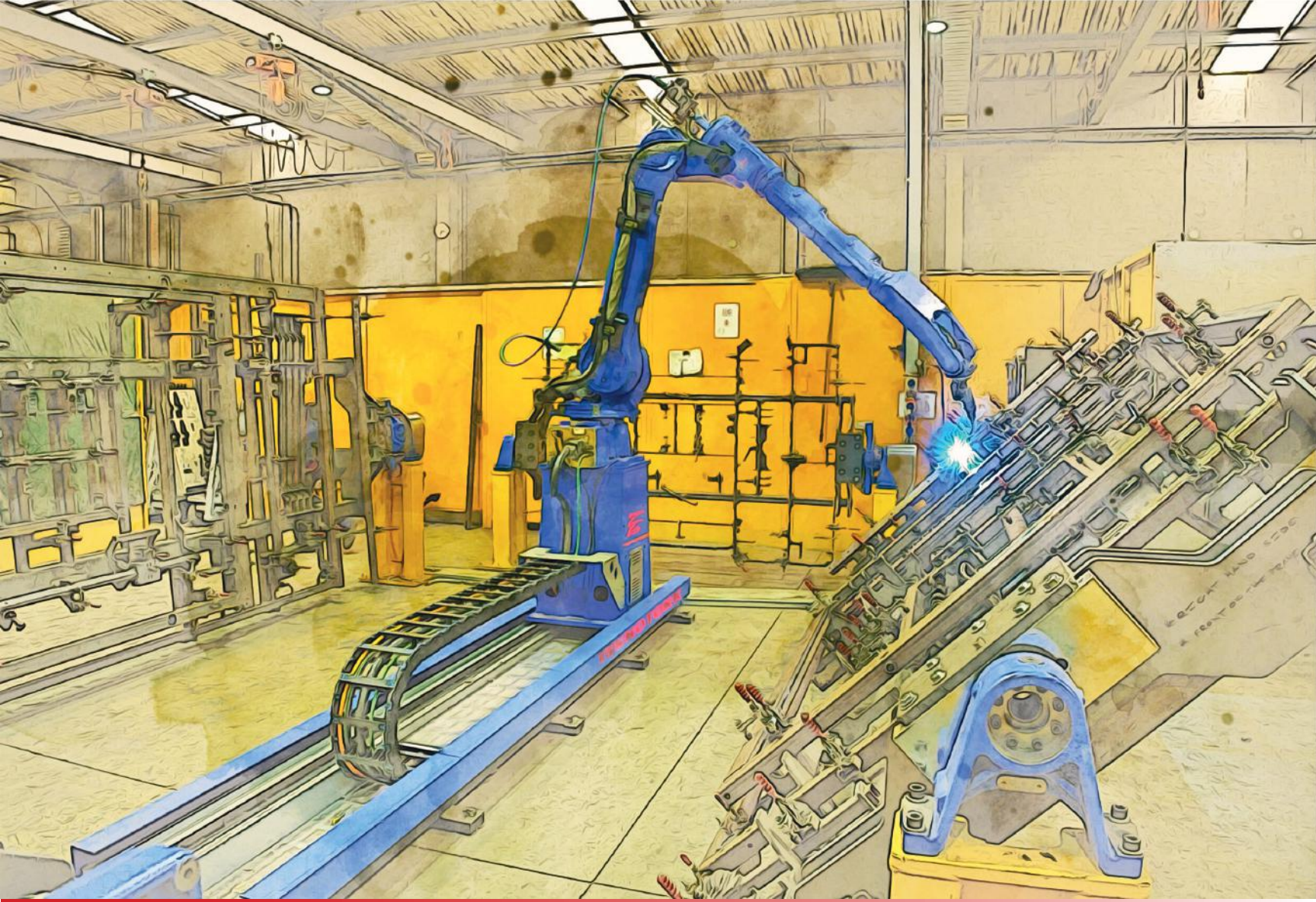


- Adjustable roller distance.
- Manual height adjustable.

- Strokes can be customized according to customer requirements.

- Can be used in a combination with positioners.





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