

02



MANUFACTURING PROCESS AUTOMATION

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1. MOST automation systems

1.1. Precision positioners



MP – MOST Positioner

MP is a series of precise automated welding systems, that incorporate high-capacity table-positioners (maximum load capacity up to 3700 kg). This unit features both, simple and reliable construction, and the highest standards of design. The high quality power feeder ensures the stepless and constant rational speed, even in case of the off-axis overloading. The unit can be operated in manual or automatic mode, supported by the high-level automatic functions. With solid, metal construction and spindle interpolated with the unit, it is possible to use operating plate or universal torch. MC control system placed in the main body and metal access door with polycarbonate-glazed viewing window for the protection of control components. Start/stop foot switch pedal to simplify process control, with the precise spindle speed regulation available as an option. Tilt angle range of turntable: 0-110°. The workstation can be equipped with the mounting arm to attach the welding torch, what enables an automatic operation of the positioner. Pneumatic torch slide assembly also available. The unit can be provided with the integrated shield gas flow system, with a spindle passage through which gas flows.



Model	MP-50	MP-100	MP-400	MP-500	MP-2000	MP-4000
Max. static load	50 kg	90 kg	370 kg	520 kg	1700 kg	3700 kg
Torque	v01: 18,4 Nm v02: 38,4 Nm v03: 79,4 Nm	v01: 18,4 Nm v02: 38,4 Nm v03: 79,4 Nm	v01: 42,8 Nm v02: 85,7 Nm v03: 171,4 Nm	v01: 12,6 Nm v02: 252 Nm v03: 504 Nmm	v01: 1814,4 Nm v02: 2585,5 Nm v03: 3326,4 Nm	v01: 3780 Nm v02: 4620,4 Nm v03: 5460 Nm
Rotation speed	v01: 0,07-16 rpm v02: 0,03-8 rpm v03: 0,02-4 rpm	v01: 0,07-16 rpm v02: 0,03-8 rpm v03: 0,02-4 rpm	v01: 0,07-16 rpm v02: 0,03-8 rpm v03: 0,02-4 rpm	v01: 0,07-16 rpm v02: 0,03-8 rpm v03: 0,02-4 rpm	v01: 0,01-4,2 rpm v02: 0,01-2,8 rpm v03: 0,01-2,1 rpm	v01: 0,01-2,8 rpm v02: 0,01-2,1 rpm v03: 0,01-1,7 rpm
Tilt angle (spindle)	0-110°	0-110°	0-90° (max 200 kg)	0-90° (max 400 kg)	0-90° (max 1 700 kg)	0-90° (max 3 700 kg)
Hole through spindle	-	-	12 mm	12 mm	12 mm	12 mm
Recommended working plate	400 mm	425 mm	550 mm	650 mm	1050 mm	1350 mm
Welding method	MIG/MAG, TIG, Plasma		MIG/MAG, TIG, Plasma		MIG/MAG, TIG, Plasma	
Power supply	1 x 230 V 50-60 Hz		3 x 400 V 50-60 Hz		3 x 400 V 50-60 Hz	
Max. welding current	350 A (DC), 270 A (AC)		350 A (DC), 270 A (AC)		550 A (DC), 450 A (AC)	
Protection class	IP21		IP21		IP21	
Dimensions	380x200x575 mm	380x390x575 mm	935x435x596 mm	935x435x596 mm	1000x1400x1900 mm	1000x1600x2100 mm
Weight	24 kg	28 kg	102 kg	108 kg	375 kg	420 kg
Control	MC- MOST Control		MC- MOST Control		MC- MOST Control	

MP system configurations



This unit is applied with a digital control and driven by a stepping motor.



MPH-MOST Positioner Hollow



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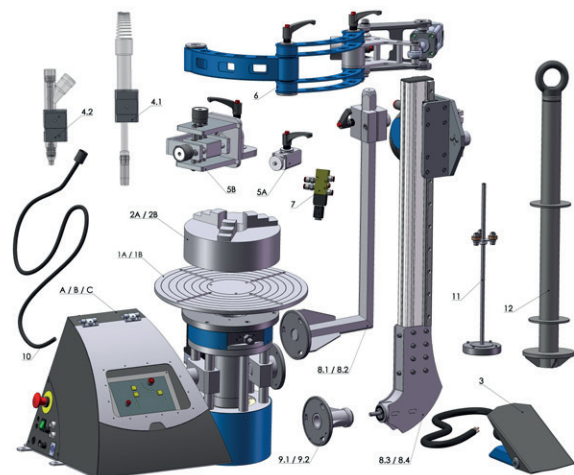


MPH-MOST Positioner Hollow is an ergonomic workstation, designed to meet the highest demands in terms of functionality and universality. Metal construction of superior quality, with a massive spindle interpolated (spindle hole up to 144 mm), can be equipped with an operating plate of maximum diameter up to 800 mm. Use of an universal torch also available. Maximum load capacity up to 620 kg. In order to achieve the ergonomics excellence, MC control system is placed in stand-alone housing, on its left side. Tilt angle range from 0 to 110°. Automatic tilt to allow a stepless phase change during operation mode, even under the heavy loading condition. The unit can be equipped with integrated holders to attach the welding torch, what enables an automatic operation of the positioner. Pneumatic torch slide assembly also available. The unit can be provided with the integrated shield gas flow system, with a spindle passage through which gas flows. Table positioner, with the maximum load capacity up to 90 kg, also available.



Model	MPH-50	MPH-100	MPH-400	MPH-600
Max. static load	50 kg	90 kg	370 kg	620 kg
Torque	v01: 49,9 Nm v02: 120,8 Nm v03: 241,6 Nm	v01: 49,9 Nm v02: 120,8 Nm v03: 241,6 Nm	v01: 87,3 Nm v02: 181 Nm v03: 362,4 Nm	v01: 154 Nm v02: 319,8 Nm v03: 639,6 Nm
Rotation speed	v01: 0,08-20 rpm v02: 0,03-8 rpm v03: 0,02-4 rpm	v01: 0,08-20 rpm v02: 0,03-8 rpm v03: 0,02-4 rpm	v01: 0,05-11,4 rpm v02: 0,02-5,3 rpm v03: 0,01-2,7 rpm	v01: 0,05-11,4 rpm v02: 0,02-5,3 rpm v03: 0,01-2,7 rpm
Tilt angle (spindle)	0-110° (max 50 kg)	0-110° (max 75 kg)	0-90° (max 175 kg)	0-90° (max 500 kg)
Hole through spindle	48 mm	78 mm	108 mm	144 mm
Recommended working plate	400 mm	425 mm	550 mm	800 mm
Welding method	MIG/MAG, TIG, Plasma		MIG/MAG, TIG, Plasma	
Power supply	1 x 230 V 50-60 Hz		1 x 230 V 50-60 Hz	
Max. welding current	350 A (DC) 270 A (AC)	350 A (DC) 270 A (AC)	550 A (DC) 450 A (AC)	550 A (DC) 450 A (AC)
Protection class	IP21	IP21	IP21	IP21
Dimensions	324x670x449 mm	324x670x449 mm	752x1300x755 mm	752x1800x755 mm
Weight	70 kg	85 kg	220 kg	255 kg
Control	MC-MOST Control	MC-MOST Control	MC-MOST Control	MC-MOST Control

MPH system configurations

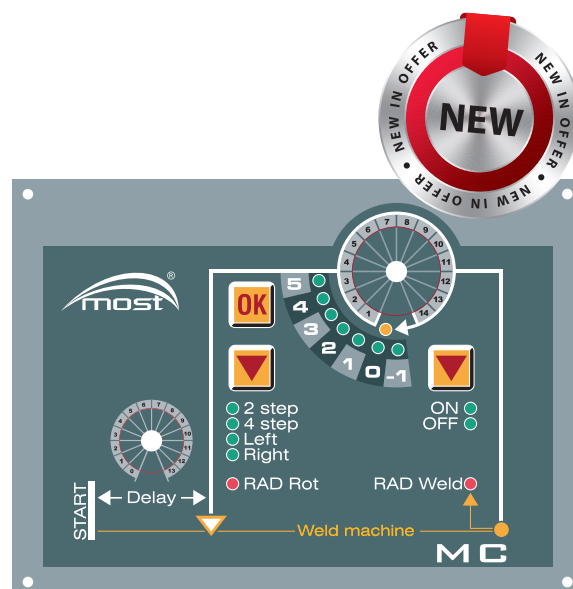


This unit is applied with a digital control and driven by a stepping motor.



MC MOST CONTROL – control system

- The delay of welding.
- 2-tact or 4-tact welding modes.
- Automatic control of rotation (positioner controls the axis rotation automatically) in seven defined grades, in range of 359° - 382°.
- Exact return to the starting point (O-point).
- The welding machine control system can be turned on/off (the weld socket in positioner controlling the welder).
- Control system that allow the stepless rotational speed control in the full range.
- TIG Turn OFF (positioner turns off the welding machines, regardless of rotation in seven grades in range of 359° - 365°). This function is especially useful in automated manufacturing processes, when precise opening/closing sequence of welds and automated change of the welding parameter values in TIG welding method.
- Pneumatic torch slide assembly (if delivered) to control welding position.



1.2. Welding orbital systems

MPWOS 500/800 – MOST Precision Welding Orbital System

MPWOS 500/800 is an unique welding system of new generation, characterized by the perfect ergonomics. Suitable for PLASMA WELD, TIG welding methods. The maximal diameter of the welded material is 340 mm, maximal length of weldment – 800 mm. The unit was designed as an stand-table positioner, equipped with the rotating arm and double-precise wire feeders, with tailstock and the moving arm of welding torch applied in. The spindle construction allows use of the universal torch 125 mm with hole of 28 mm. The support arm can be tilted mechanically in range of 0-90°, what enables to set the precise position in order to optimize the welding process. The arm of welding torch is positioned pneumatically and controlled by the control system. The MCS-X control system provides the full access to all functions, including the digital communication with the welding machine. The control system is placed on the left side of machine, guaranting the perfect ergonomics.



Model	MPWOS-500	MPWOS-800
Max. static load	25 kg	25 kg
Working range (distance between shank and tailstock)	max 500 mm	max 800 mm
Max. diameter of the product	340 mm	340 mm
Tilt angle	0-90°	0-90°
Rotational torque of the spindle in driven section	v01: 33,7 Nm v02: 98,1 Nm v03: 193,1 Nm	v01: 33,7 Nm v02: 98,1 Nm v03: 193,1 Nm
Rotational torque of tailstock (sync with main drive)- optional	v01: 33,7 Nm v02: 98,1 Nm v03: 193,1 Nm	v01: 33,7 Nm v02: 98,1 Nm v03: 193,1 Nm
Range of the main spindle speed (active section alternatively)	v01: 0,05-25 rpm v02: 0,02-8,3 rpm v03: 0,01-4,2 rpm	v01: 0,05-25 rpm v02: 0,02-8,3 rpm v03: 0,01-4,2 rpm
Hole through main spindle	28 mm	28 mm
Welding method	MIG/MAG, TIG, Plasma,	MIG/MAG, TIG, Plasma,
Duty cycle	100%	100%
Max. welding current	350 A (DC), 270 A (AC)	350 A (DC), 270 A (AC)
Power supply	1x230V 50/60 Hz	1x230V 50/60 Hz
Protection class	IP21	IP21
Weight	155 kg	155 kg
Dimensions	850x820x1500 mm	850x820x1500 mm
Control system	MCS-X – MOST Control System	MCS-X – MOST Control System



This unit is applied with a digital control and driven by a stepping motor.



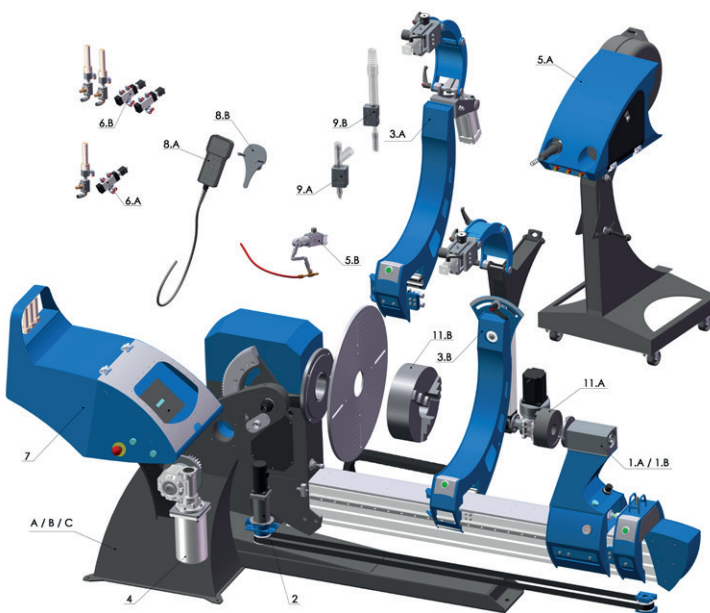
MPWOS 1000/1500 - MOST Precision Welding Orbital System

MPWOS-1000/1500 is an unique and universal welding orbital system of new generation, which was designed to reach the perfect ergonomics with maintenance of high technology. The detailed construction, covering linear guides, makes this unit suitable for MIG/MAG welding, without a negative impact on the lifespan on machine components. Maximal diameter of welded material – 650 mm, maximal length of weldment up to 1450 mm.



The modern construction carries the massive spindle with a hole of 108 mm, below the spindle there is a main support with wire feeders, by which the tailstock and arm of welding torch are carried. By the solution of the spindle the use of operating plate with maximum diameter up to 650 mm is allowed, also universal torch 315 mm with a hole of 108 mm can be used. The tailstock has a hole of 28 mm, with a standardized flange suitable for universal torch 125 mm. It is possible to equip the machine with two universal torches 315 mm with through hole 108 mm. the whole support of the arm can be tilted in the range of 0-90°, elevation with use of the motor. It allows to set accurately any of the position in order to optimize the welding processes. Arm of the welding torch has a pneumatic moving and its function is controlled by the control system. The control system MCS-X is placed on the left side of machine, guaranting the perfect ergonomics.

MPWOS - system configurations



Model	MPWOS-1000	MPWOS-1500
Max. static load	270 kg	270 kg
Working range (distance between shank and tailstock)	max 1050 mm	max 1450 mm
Max. diameter of the product	650 mm	650 mm
Tilt angle	0-90°	0-90°
Rotational torque of the spindle in driven section	v01: 181,2 Nm v02: 362,4 Nm v03: 604 Nm	v01: 181,2 Nm v02: 362,4 Nm v03: 604 Nm
Rotational torque of tailstock (sync with main drive)- optional	v01: 181,2 Nm v02: 362,4 Nm v03: 604 Nm	v01: 181,2 Nm v02: 362,4 Nm v03: 604 Nm
Range of the main spindle speed (active section alternatively)	v01: 0,02-11,1 rpm v02: 0,01-5,6 rpm v03: 0,01-3,3 rpm	v01: 0,02-11,1 rpm v02: 0,01-5,6 rpm v03: 0,01-3,3 rpm
Pneumatic tailstock force	50 mm	50 mm
Hole through spindle	108 mm	108 mm
Hole through spindle (reactive section)	28,0 mm	28,0 mm
Welding method	MIG/MAG, TIG, Plasma	MIG/MAG, TIG, Plasma
Duty cycle	100%	100%
Max. welding current	450 A (DC) 350 A (AC)	450 A (DC) 350 A (AC)
Power supply	3x400 V 50/60 Hz	3x400 V 50/60 Hz
Protection class	IP21	IP21
Weight	295 kg	325 kg
Dimensions	1520x900x1750 mm	1520x900x2050 mm
Control	MCS-X – MOST Control System	MCS-X – MOST Control System



This unit is applied with a digital control and driven by a stepping motor.



MWOS – MOST Welding Orbital System

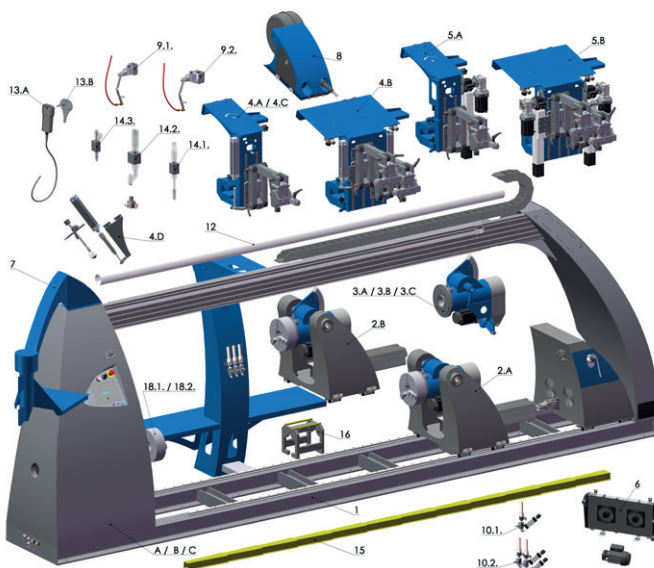


This unit is an universal production system of new generation, which was designed to reach the perfect ergonomics with maintenance of high technology. The detailed construction means a wide range of possibilities for this production unit. Wide range of sizes of weld material and the exceptional addition of accessories provides a wide range of high flexibilities of the final constructional possibilities. This unit can be equipped with one or two weld heads, with one or two armed torches possible to apply. It significantly extends applications of this unit, including the supply control of the welding processes, such as pneumatic-mechanical copy system, or camera scanning.



- The unit can be delivered in different length versions of welded parts.
- Choice between using the universal torch or operating plate (single-purpose accessories).
- Mechanical or hydraulical support allow to transfer when welding long objects.
- Choice between one arm/two arm support for the torch, with possibility of choosing the combination of welding methods on each of arms.
- Tilting tailstock with a tilt angle range of 0-90° allows to weld in the same positions as positioner. Function of pneumatic pressing.
- Systems of weld tracing: pneumatic-mechanical, electro-mechanical, arc voltage sensing (AVC).
- The cooling system integrated into control system out of 8.5 kW, suitable for cooling of all the devices.
- Choice of controlled motoric axis: X, Z, T, Y axis, jointed axis of torch.
- Choice of the digital cold wire feeder type on the basis of the whole machine configuration.
- The unit comes with the welding sources suitable for TIG DC, TIG AC, PLASMA, MAG PULSE welding methods provided with function of digital communication with welding machine.
- Possibility of integration of flexible air duct directly to the machine structure (welding fumes extraction), which can be connected to the central filterventilation system.

MWOS - system configurations



Model	MWOS-A2	MWOS-A5
Max. static load	2200 kg	5200 kg
Working range (distance between shank and tailstock)	max 16 500 mm	max 16 500 mm
Max. diameter of the product	1000 mm	1500 mm
Rotation torque of the spindle in driven section a	v01: 1066 Nm v02: 1776,6 Nm v03: 2487,2 Nm	v01: 1918,7 Nm v02: 3197,9 Nm v03: 4477 Nm
Rotation torque of tailstock (sync with the main drive)- optional	v01: 1066 Nm v02: 1776,6 Nm v03: 2487,2 Nm	v01: 1918,7 Nm v02: 3197,9 Nm v03: 4477 Nm
Range of the main spindle speed (reactive section alternatively)	v01: 0,01-5,6 rpm v02: 0,01-3,3 rpm v03: 0,01-2,4 rpm	v01: 0,01-5,6 rpm v02: 0,01-3,3 rpm v03: 0,01-2,4 rpm
Hole through spindle	78 mm	108 mm
Pneumatic force of tailstock	300 mm	300 mm
Welding method	MIG/MAG, TIG, Plasma	MIG/MAG, TIG, Plasma
Duty cycle	100%	100%
Max. welding current	550 A (DC) 450 A (AC)	550 A (DC) 450 A (AC)
Power supply	3x400 V 50/60 Hz	3x400 V 50/60 Hz
Protection class	IP21	IP21
Weight (at operating length of 2500 mm)	1260 kg	1650 kg
Dimensions (at operating length of 2500 mm)	2600x1100x4300 mm	3200x1400x4900 mm
Control system	MCS-X – MOST Control System	MCS-X – MOST Control System



This unit is applied with a digital control and driven by a stepping control.

1.3. Longitudinal welding systems



02

MALW – MOST Auto Longitudinal Welding

MALW is a modern welding automat of new generation designed for longitudinal welding, which features perfect ergonomics and operating parameters. Maximal length of weldment is 2050 mm, maximal diameter of welded material – 1500 mm, thickness of material in range of 0,5-3,5 mm. the detailed mechanical construction, electronics, drivers of the newest generation and highly advanced technologies of TIG DC, TIG AC, Plasma Weld DC, Plasma Weld AC welding methods provide the wide range of applications in welding of all types of steel. The construction of arms is designed as spatial construction, characterized by high flexibility and quality. The overpressure of the work-piece to the welding mandrel is pneumatically through the gear levers, use of copper segments provides the optimal settings and enables to carry off heat precisely from the welding area. The backing sheet is made of the high quality CuCrCz alloy and features the high resistance. The advanced driving system of welding torch is achieved by servomotor and allow the precise positioning with exactness of 0,2 mm, welding speed of 10-300 cm/min and feed of 600 cm/min, what significantly shortens stoppage in welding processes. The gas management system is one of the functions worth mentioning. The gas distribution is realized by three independent systems: the welding torch, the weld cooling and forming gas. The forming gas distribution flow applies the unique cascade system of backing weld protection. Depending on the actual position of torch, the cascade gas flow system split forming gas automatically into sections, with 10 or 15 – out of 80 – holes opened in the same time. This solution greatly reduces the forming gas consumption by 70%. The unit can be equipped with an additional cold wire feeder, what extends the range of its application in thicker sheet welding (e.g. in pressure tanks production and other objects which manufacturing processes that demand the wire application). The unit is provided with the integrated welding fume extraction system, which can be connected to the central filtroventilation system, and the integrated cooling system. The device is controlled by digital control system, which has been designed especially for longitudinal welding automats. Control system has a wide range of functions, by which all requirements of longitudinal welding are solved.



Model	MALW 1000	MALW 1500	MALW 2000
Max. length of the product	1100 mm	1500 mm	2050 mm
Min. diameter of the product	60 mm	80 mm / 100 mm	120 mm
Max. diameter of the product	1500 (1800) mm	1500 (1800) mm	1500 (1800) mm
Dimensions of material thickness (Fe)	0,4-3,5 mm	0,4-3,5 mm	0,5-3,5 mm
Dimensions of material thickness (CrNi)	0,35-3,5 (4) mm	0,35-3,5 mm	0,5-3,5 mm
Dimensions of material thickness (Al, Ti)	0,4-3,0 mm	0,4-3,0 mm	0,5-3,0 mm
Dimensions of material thickness (Cu)	0,5-2,0 mm	0,5-2,0 mm	0,5-2,0 mm
Range of welding speed	10-300 cm/min	10-300 cm/min	10-300 cm/min
Clamping force of welded part	0,35-250,0 N/mm ²	0,35-250,0 N/mm ²	0,35-250,0 N/mm ²
The forming gas flow system	Cascade gas system	Cascade gas system	Cascade gas system
Duty cycle	100%	100%	100%
Power supply	3x400V 50/60 Hz	3x400V 50/60 Hz	3x400V 50/60 Hz
Power consumption	350 VA	350 VA	350 VA
Protection class	IP21	IP21	IP21
Weight	610 kg	740 kg	1050 kg
Dimensions:			
▪ length	1350 mm	1350 mm	1350 mm
▪ width	1200 mm	1200 mm	1200 mm
▪ depth	2150 mm	2600 mm	3200 mm
Control system	MCS-XL – MOST Control System	MCS-XL – MOST Control System	MCS-XL – MOST Control System



MCS-X – MOST Control System

The MCS-X control system provides a clear and easily understandable user interface with full programming capabilities and results in a higher level of production throughout the entire process.

Some of control features:

- process control,
- diameter of the product, the way of rotation, angle of turning (maximal 720°, exactness 0,1°),
- axis rotation,
- delay/acceleration of the rotation before welding (time after the confirmation of the stable arc is sent by the welding machine),
- the precise closing/opening sequence and defect-free connection of beginning and end of the weld (angle and number),
- O-point – exact return to the start point,
- points (automatic calculation of angles on the basis of entering information, entering the number of tack welds).

Axis motoric:

- in rotary mode of welding – the setting of the longitudinal welding position on the X axis and its acting during the operating cycle,
- in longitudinal mode of welding – the setting of the welding position, the delay of activity after the welding process has started, the final time of welding, finishing of the sequence, the acting during the operating cycle and radial position of the weld on the rotary axis,
- the angle of tailstock's spindle 0- 90°, the fluent movement using the extract drive of tailstock's tilt or with pneumatically controlled stroke.

Torch axis – pneumatic or electric supports.

Oscillation:

- the delay of starting the oscillation after the sign of the stable arc is sent (sec),
- frequency of the oscillatory movement (Hz),
- right/centre/left divergence, in mm, separately for each sides, (exactness 0,1 mm).

Welding system with digital communication system equipped -CAN BUS

Forming gas – pre-blowing and after-blowing of forming gas functions

Programs – Memory Box:

- the machine can memorize the own settings including the whole operating cycle. Programs saved in Memory boxes can be arbitrarily combined into the functional lines and create even the difficult operating cycle.

Optional accessories:

- AVC control when TIG and PLASMA welding (automated regulation of arc height),
- joints/seam tracing (electromechanical indicator),
- camera viewing system.

Standard applications:

- The machine is universal and sophisticated production unit which can be used in industry. It is possible to weld rotary circumferential welds, angular welds in position PA/PB using the tilting tailstock and also fully-fledged welds can be done.
- The production of pressure and non-pressure vessels from all materials and by using all the welding methods of arc welding (except SAW method) is really typical. Because of high exactness of the machine the machine parts, flanges, shafts, heat exchangers and tube sheets can be welded on this machine.
- The machine is able to work in screw welding mode on the surface of the cylinder even on the surface of the operating plate (tilting 90°). A special kind of used software provides the possibility to weld each layer separately by using the controlled axis of the torch stroke.

Special version suitable for longitudinal mode of welding MCS-XL available.



2. MOST turning rolls

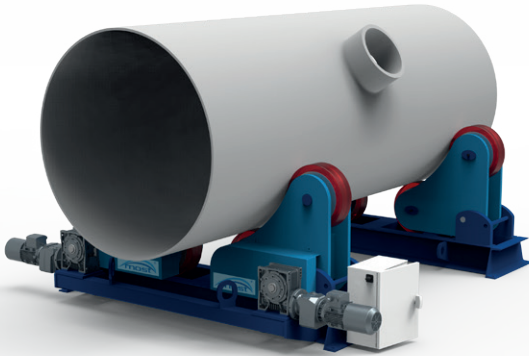
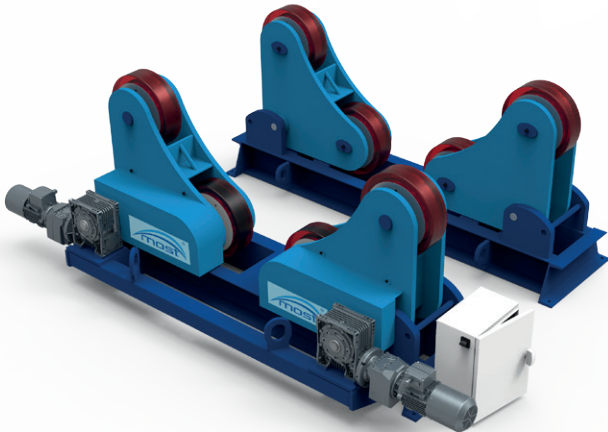


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Self-align rotator MOST MSR

Turning rolls are designed to support tanks, large diameter pipes and any other type of cylindrical objects. These units provide a wide array of compatible work-pieces and precise adjustments as needed, what reduce preparation time and allow the operator to manipulate work-pieces to the optimal position.

Self-align rotators series MOST MSR are perfect solution for the manipulation of thin-walled work-pieces, heavy and difficult objects. These units enable equal loading, constant rotation speed and quick adjustment to accommodate a wide range of work-piece diameters (no other adjustments required). Capacities range from 5 to 200 tons and 250-7000 mm diameter range

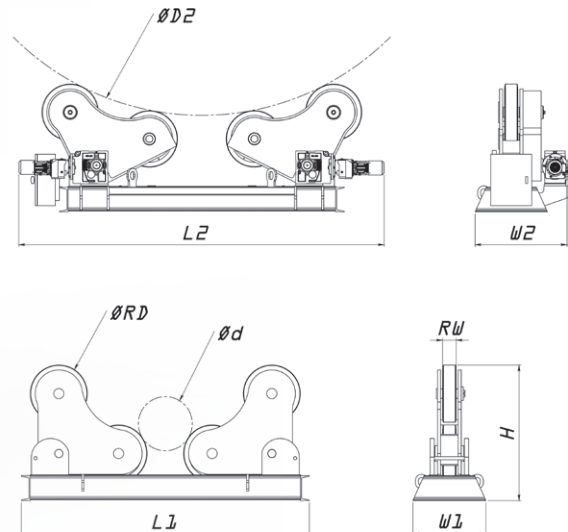


Standard features:

- automatic diameter adjustments,
- adjustable rotation speed,
- remote controller with 5 meter cable,
- digital speed indicator on the controller panel for monitoring rotation,
- polyurethane wheels absorbing shocks and vibrations,
- motors with brake and forced fan cooling.

Optional features:

- axial movement on rail (automatic/manual),
- hydraulic fit-up,
- special insulation for worksite conditions,
- custom wheel design for areas that require high temperature.



Model	Load capacity [t]	Load capacity per section [t]	Rotation speed [mm/min]	Min. diameter [mm]	Max. diameter [mm]	Roller diam. [mm]	Roller width [mm]	Roller material	Overall length – idler [mm]	Overall width – drive [mm]	Overall length – drive [mm]	Overall length – drive [mm]	Height over roller [mm]	Motor power [kW]	Weight [kg]
				d	D2	RD	RW		L1	W1	L2	W2			
MSR-5	5	2,5	125-1250	250	3000	250	75	Polyurethane	1180	465	1480	530	515	1 x 0,37	400
MSR-10	10	5	125-1250	450	3000	350	100	Polyurethane	2000	550	2600	730	930	2 x 0,37	1700
MSR-20	20	10	125-1250	450	4600	375	125	Polyurethane	2020	660	2685	785	950	2 x 0,37	1900
MSR-30	30	15	125-1250	450	4600	440	125	Polyurethane	2100	670	3100	900	1010	2 x 0,55	2700
MSR-40	40	20	125-1250	520	5200	440	125	Polyurethane	2120	680	3200	900	1050	2 x 0,75	2900
MSR-50	50	25	125-1250	520	5200	440	150	Polyurethane	2120	705	3200	925	1050	2 x 1,1	3200
MSR-60	60	30	125-1250	520	5200	550	130	Polyurethane	2780	705	3750	1000	1310	2 x 1,1	4000
MSR-80	80	40	125-1250	520	5500	550	175	Polyurethane	2780	850	3750	1200	1310	2 x 1,1	5000
MSR-100	100	50	125-1250	600	6000	550	260	Polyurethane	2900	900	4400	1250	1350	2 x 1,5	6250
MSR-150	150	75	125-1250	600	6000	550	310	Steel	3020	1200	4500	1650	1385	2 x 3	7450
MSR-200	200	100	125-1250	1000	7000	650	360	Steel	3300	1250	4850	1700	1415	2 x 4	9100



Conventional rotator MOST MCR

Turning rolls are designed to support tanks, large diameter pipes and any other type of cylindrical objects. These units provide a wide array of compatible work-pieces and precision adjustments as needed, what reduce preparation time and allow the operator to manipulate work-pieces to the optimal position. Conventional turning rolls series MOST MCR offer basic manipulators for wide variety of cylindrical objects.

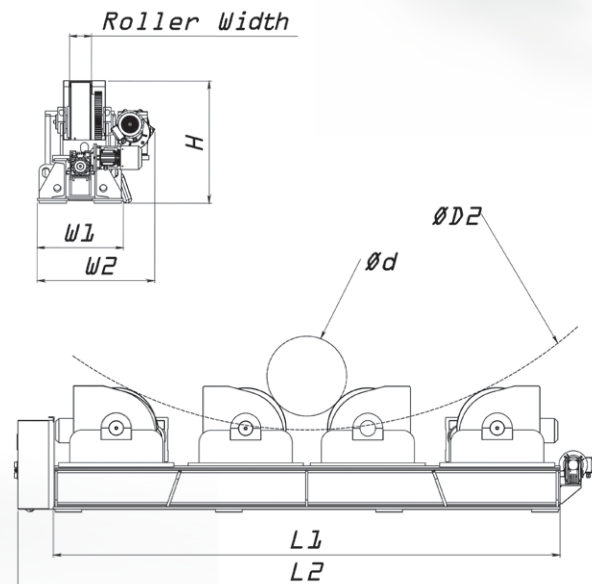
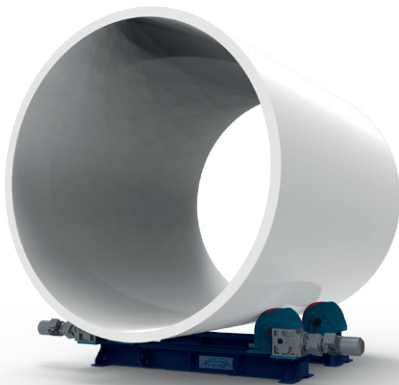
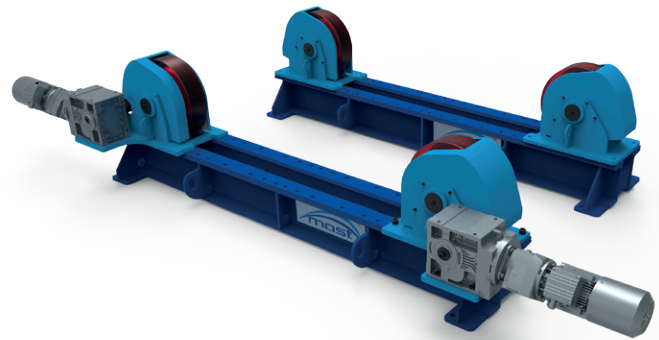
Capacities range from 5 to 300 tons and 250-8000 mm diameter range.

Standard features:

- regulated rotation speed,
- remote controller with 5 meter cable,
- digital speed indicator on the controller panel for monitoring rotation,
- manual adjustment of diameter,
- polyurethane wheels absorbing shocks and vibrations,
- motors with brake and forced fan cooling.

Optional features:

- automatic diameter/wheel axis adjustments (with ballscrew),
- axial movement on rail (automatic/manual),
- hydraulic fit-up,
- special insulation for worksite conditions,
- custom wheel design for areas that require high temperature.

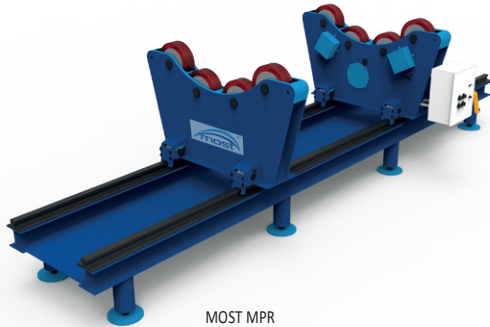


Model	Load capacity [t]	Load capacity per section [t]	Rotation speed [mm/min]	Min. diameter [mm] d	Max. diameter [mm] D2	Roller diam. [mm] RD	Roller width [mm] RW	Roller material	Overall length – idler [mm] L1	Overall width – drive [mm] W1	Overall length – drive [mm] L2	Overall length – drive [mm] W2	Height over roller [mm] H	Motor power [kW]	Weight [kg]
MCR-5	5	2,5	125-1250	250	3000	360	100	Polyurethane	1900	465	2220	540	535	1 x 0,37	650
MCR-10	10	5	125-1250	250	3000	360	100	Polyurethane	1990	465	3100	560	560	2 x 0,25	850
MCR-20	20	10	125-1250	450	4600	450	125	Polyurethane	2860	500	3100	660	700	2 x 0,37	1600
MCR-30	30	15	125-1250	450	5200	450	150	Polyurethane	2860	500	2860	660	710	2 x 0,55	2100
MCR-40	40	20	125-1250	520	5200	550	175	Polyurethane	3300	700	4500	855	850	2 x 0,75	2600
MCR-50	50	25	125-1250	520	5200	550	200	Polyurethane	3300	700	4500	880	850	2 x 1,1	3100
MCR-60	60	30	125-1250	520	5200	550	230	Polyurethane	3300	730	4500	910	850	2 x 1,1	3400
MCR-80	80	40	125-1250	520	5500	550	360	Polyurethane	3300	860	4500	1050	850	2 x 1,1	4000
MCR-100	100	50	125-1250	600	6000	550	400	Polyurethane	3300	920	4900	1200	850	2 x 1,5	4800
MCR-150	150	75	125-1250	600	6000	550	450	Steel	3600	1020	5150	1300	980	2 x 3	6100
MCR-200	200	100	125-1250	600	7000	650	480	Steel	4700	1020	5500	1300	1130	2 x 4	7000
MCR-300	300	150	125-1250	800	8000	750	520	Steel	5000	1100	6000	1500	1280	2 x 7,5	8500

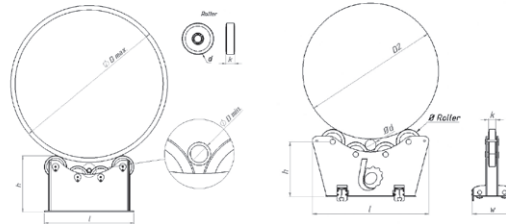


Special rotator MOST MPR, MPRA and MTC

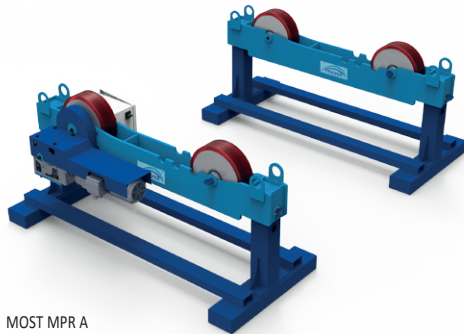
Special rotators MPR or MPRA are dedicated for special applications such welding pipes of up to 8 t capacity (other various capacity options available on request). For applications requiring an even loading and distortion reduction. Highly recommended for thin-walled pipes, cisterns, pressure tanks or boilers manufacturing processes.



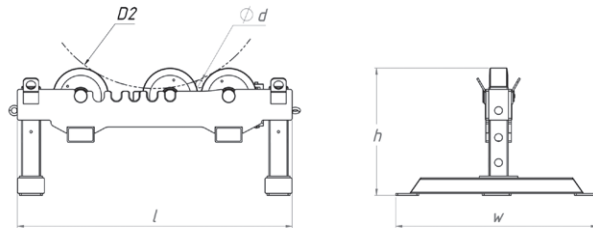
MOST MPR



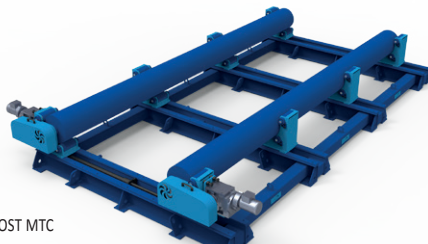
Pipe rolls MOST MPR															
Model	Load capacity [t]	Power supply [V]	Motor power [kW]	Work-piece diameter [cal mm]		Rotation speed [mm/min]		Roller diam. [mm]	Roller width [mm]	Dimensions				Weight - driver [kg]	Weight-idler [kg]
				D						[mm]					
				Min.	Max.	Min.	Max.			k	h	l	w		
MPR-3	3	400	0,25	1½" 42	56" 1422	150	1500	200	55	800	900	400	230	130	
MPR-6	6	400	0,25	4" 120	60" 1500	127	1270	270	80	1000	1155	435	385	310	



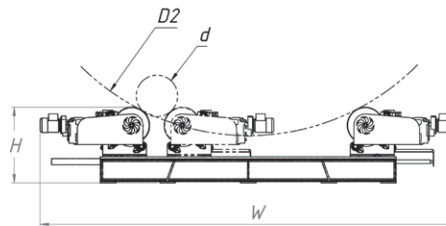
MOST MPRA



Pipe rolls MOST MPRA														
Model	Load capacity [t]	Power supply [V]	Motor power [kW]	Work-piece diameter [cal mm]		Rotation speed [mm/min]		Roller diam. [mm]	Roller width [mm]	Dimensions			Weight - driver [kg]	Weight-idler [kg]
				D						[mm]				
				Min.	Max.	Min.	Max.			k	h	l		
MPRA-3	3	400	0,25	110	1219	127	1270	250	55	640	1430	1050	180	150
MPRA-5	5	400	0,25	110	1219	127	1270	290	80	660	1430	1050	200	180
MPRA-8	8	400	0,25	110	1422	127	1270	290	95	660	1430	1050	220	200



MOST MTC



Pipe rolls MOST MTC											
Model	Load capacity [t]	Min. diameter [mm]	Max. diameter [mm]	Roller diameter [cal mm]	Roller width [mm]	Roller material [mm]	Overall length [mm]	Overall width [mm]	Height over roller [mm]	Motor power [kW]	Weight [kg]
		d	D2				L1	W1	H		
MTC-5	5	350	6000	14 350	5500	Steel	6000	4100	750	2 x 0,37	1980
MTC-10	10	350	6000	14 350	5500	Steel	6000	4100	750	2 x 0,55	2650

3. Chain manipulators MOST

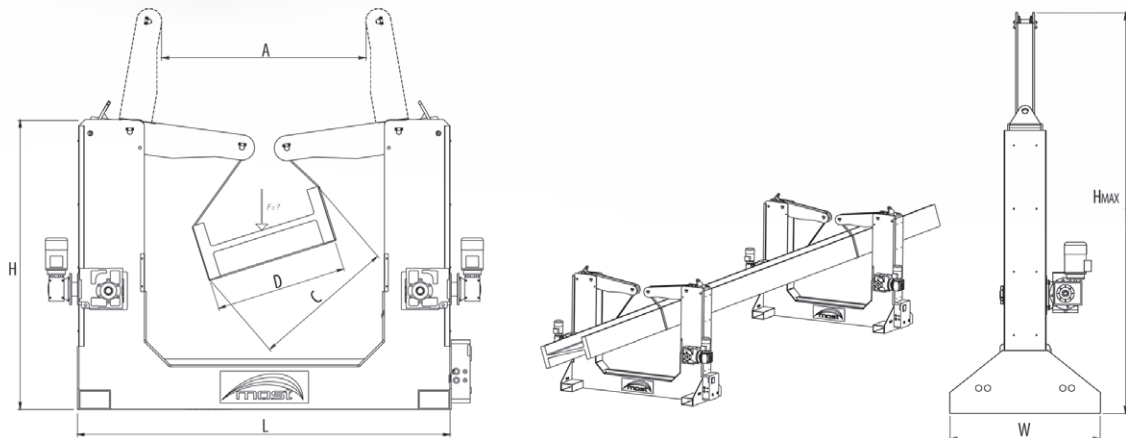
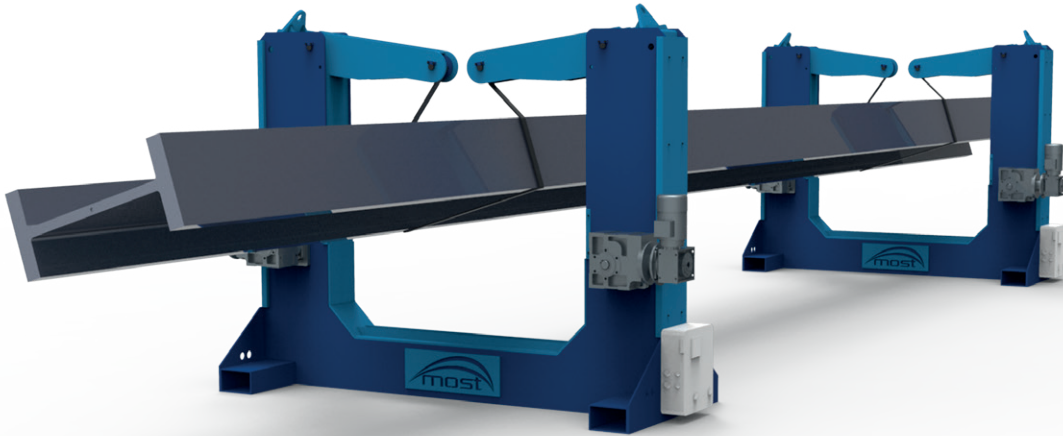


Chain manipulators MOST MCHR

Chain manipulators allow to lift and rotate long objects, such as heavy sections, booms and other space structures, with no need of gantry crane use. Maximum load capacity up to 20 t, width of work-piece up to 2500 mm. The solid construction and resistance to sharp edge of the welded parts, allow to weld and grind in the most suitable position. Simple operation and work ergonomics greatly improve productivity and quality of the production processes.

These units are equipped with:

- remote controller with 5 meter cable,
- digital rotation speed display



Model	Load capacity [t]	Rotation speed [mm/min]	Work-piece width	Operating width	Base overall length	Base overall width	Height		Distance between rolls [mm]	Motor power [kW]	Power supply [V]
			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]			
MCHR-5	5	500-5000	600	850	1600	800	1300	1750	750	4x1,1	400
MCHR-10	10	500-5000	1000	1450	2000	1000	1700	2450	1150	4x1,5	400
MCHR-15	15	400-4000	1200	1750	2750	1200	2100	3000	1350	4x1,5	400
MCHR-20	20	400-4000	1500	2150	3050	1500	2500	3600	1650	4x2,2	400

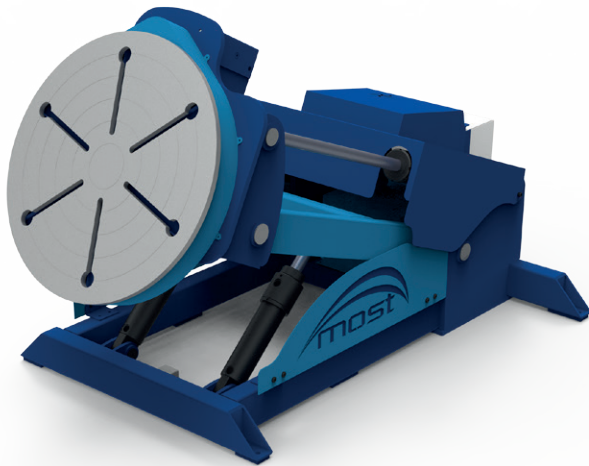
4. MOST positioners



02

MOST MHP 3-axis hydraulic positioner

In welding work, positioners are convenient aids in increasing working flexibility, productivity and quality, not to mention labor motivation. Flexible to move work to any suitable position, what allows work-pieces to be set up to the best possible down-hand welding positions.

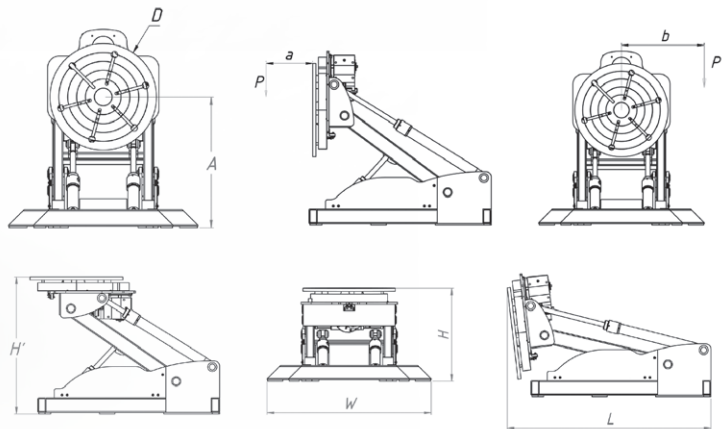
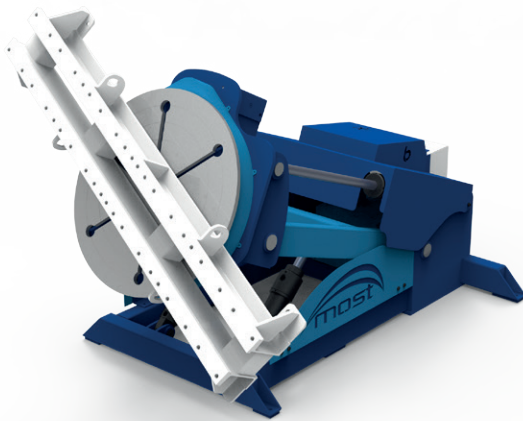


3-axis positioners MOST series MHP are equipped with adjustable rotation, tilting and height movement functions. Possibility for stepless 3-axis work-piece adjustment guarantees ideal, productive and ergonomic work positions. Inverter-controlled AC-driven rotations are smooth and accurate in all loading conditions. Powerful, hydraulically-operated tilting and height adjustments enable safe positioning of work-pieces into optimum welding and working positions.

Positioners with loading capacity up to 5000 kg
(other various capacities available upon request).

Positioners are equipped with:

- 3-axis hydraulic system,
- remote controller with 5 meter cable,
- digital speed indicator on the controller panel for monitoring rotation,
- motors with brake and forced fan cooling.



Model	Load capacity [t]	Table diameter [mm] D	Max. height with horizontal table [mm] A	Max. height with vertical table [mm] H'	Min. height with vertical table [mm] H	Length overall [mm] L	Max. height [mm] W	Table rotation speed [min/max-rpm]	T-Slots [°]	Table motor power [kW]	Motor power of hydraulic unit [kW]	Weight [kg]
MHP-05	0,5	800	930	1650	930	1700	850	0,14 / 1,4	5-72	0,55	3	975
MHP-1	1	850	930	1650	930	1900	920	0,14 / 1,4	5-72	0,55	3	1050
MHP-2	2	900	1100	1360	910	1990	1600	0,14 / 1,4	5-72	0,75	2,5	1300
MHP-5	5	1200	1700	1900	1150	2500	1500	0,14 / 1,4	5-72	1,1	2,2	2700



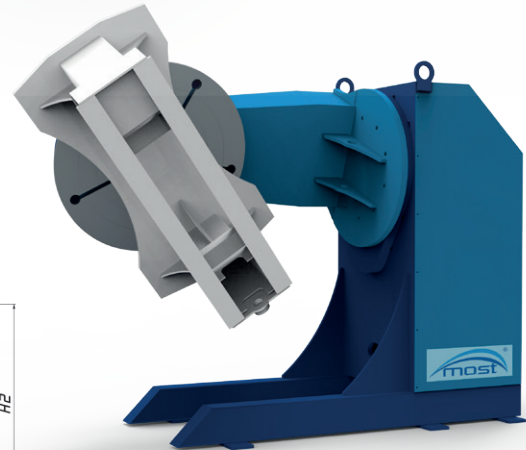
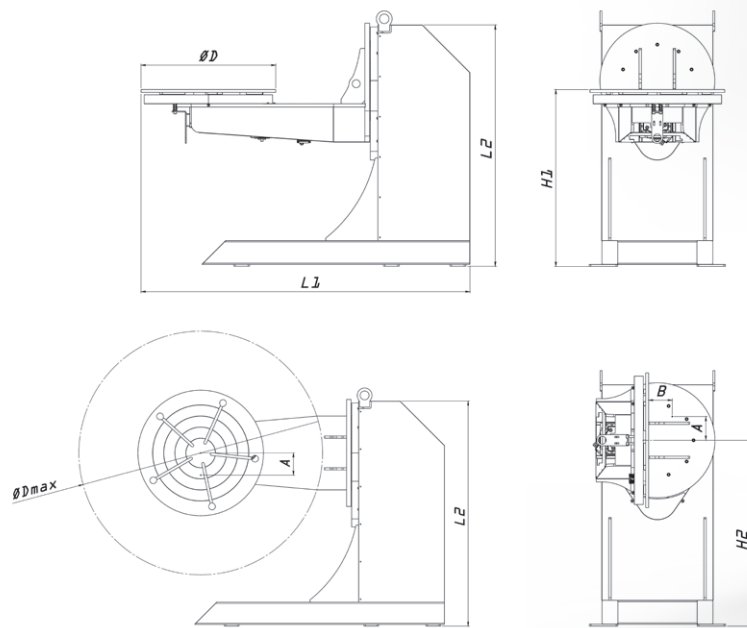
L type positioner MOST MLP

In welding work, positioners are convenient aids in increasing working flexibility, productivity and quality, not to mention labor motivation. Flexible to move work to any suitable position, what allow work-pieces to be set up to the best possible down-hand welding positions.

Positioners MOST series MLP are dedicated for heavy work-pieces with demanding product geometry. Work-pieces can be adjusted in all conceivable positions with MLP positioner. This ensures that the welder's working posture is always productive and ergonomically sound. Inverter-controlled AC-driven rotations are smooth and accurate in all loading conditions. Positioners with loading capacity up to 3000 kg (other various capacities available upon request).

Positioners are equipped with:

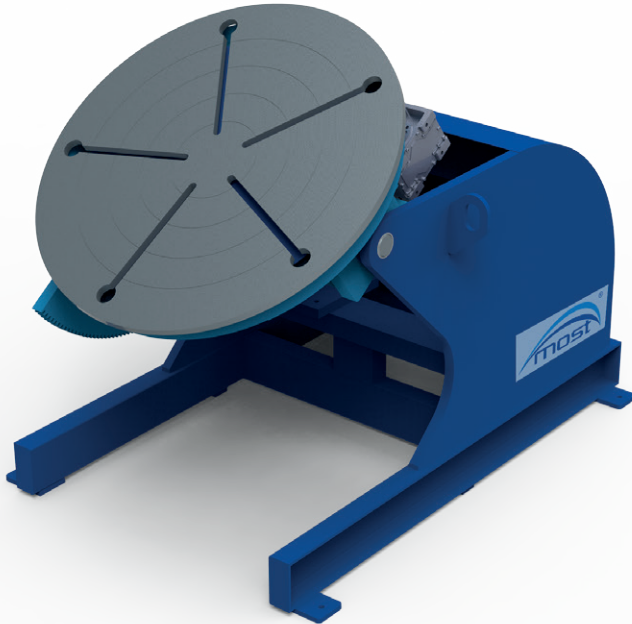
- adjustable steeples rotation speed of table and tilt movement,
- remote controller with 5 meter cable,
- digital speed indicator on the controller panel for monitoring rotation,
- motors with brake and forced fan cooling.



Model	Load capacity [t]	Table rotation degree [°]	T-Slots [°]	Power supply [V]	Table motor power [kW]	Tilt rotation motor [kW]	Table rotation speed		Height of table center to the floor [mm]		Work-piece diameter [max Ø mm]	Width overall [mm]	Height overall [mm]	Weight [kg]
							Min.	Max.	H1	H2				
MLP-05	0,5	360	+90 / -90	400	0,37	0,37	0,15	1,5	800	900	1400	1830	1155	550
MLP-1	1	360	+90 / -90	400	0,55	0,75	0,14	1,4	1120	1180	1650	2300	1520	950
MLP-3	3	360	+90 / -90	400	1,5	1,5	0,1	1	1200	1360	1850	2580	1717	1750



Conventional positioner MOST MCP

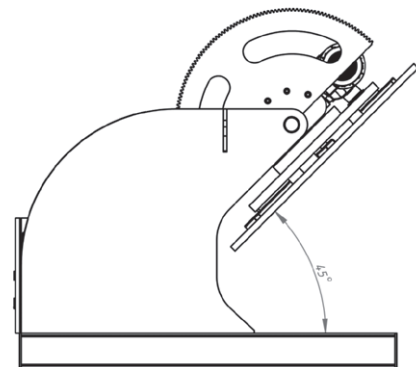
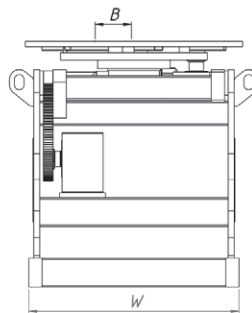
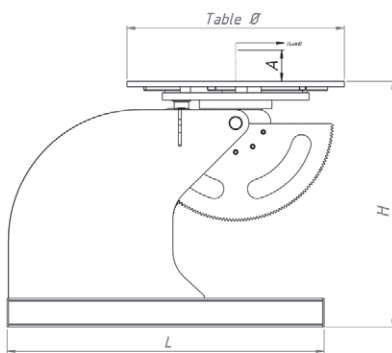


In welding work, positioners are convenient aids in increasing working flexibility, productivity and quality, not to mention labor motivation. Flexible to move work to any suitable position, what allow work-pieces to be set up to the best possible down-hand welding positions.

Positioners MOST series MCP provide safe positioning of the work-piece into optimal position for any of the technical operations such as welding. Ensure ideal, ergonomic working positions, also increase welding productivity and quality. Positioners are equipped with adjustable regulation and tilting movement functions. Inverter-controlled AC-driven rotations are smooth and accurate in all loading conditions. Positioners with loading capacity up to 5000 kg (other various capacities available upon request).

Positioners are equipped with:

- adjustable rotation speed,
- angle indicator (for tilting movement),
- remote controller with 5 meter cable,
- digital speed indicator on the controller panel for monitoring rotation,
- motors with brake and forced fan cooling.



Model	Load capacity	Rotation torque	Tilting moment	Table rotation degree	T-Slots	Power supply	Rotation motor power	Tilt rotation motor	Rotation speed		Tilting speed	Table diameter	Tilting range	Length overall	Height overall	Width overall	Weigh	Max. welding current		
	[t]	[kgm]	[kgm]	[°]	[°]	[V]	[kW]	[kW]	[min/max-rpm]					[mm]	[mm]	[mm]			[kg]	[A]
									Min.	Max.				L	H	W				
MCP-02	0,2	300	150	360	180	380	0,25	0,25	0,14	1,4	30	600	6	1275	1050	750	300	300		
MCP-05	0,5	300	150	360	135	380	0,37	0,55	0,14	1,4	30	700	6	1100	800	840	600	300		
MCP-1	1	300	150	360	135	380	0,37	0,75	0,14	1,4	30	850	6	1310	880	1030	900	300		
MCP-2	2	300	600	360	135	380	0,75	1,1	0,14	1,4	45	900	6	1510	1010	1210	1200	300		
MCP-3	3	450	900	360	135	380	1,1	2,2	0,14	1,4	45	1100	6	1610	1250	1310	1650	300		
MCP-5	5	750	2400	360	135	380	1,5	2,2	0,14	1,4	45	1200	6	1800	1200	1540	2500	300		

5. MOST turntables

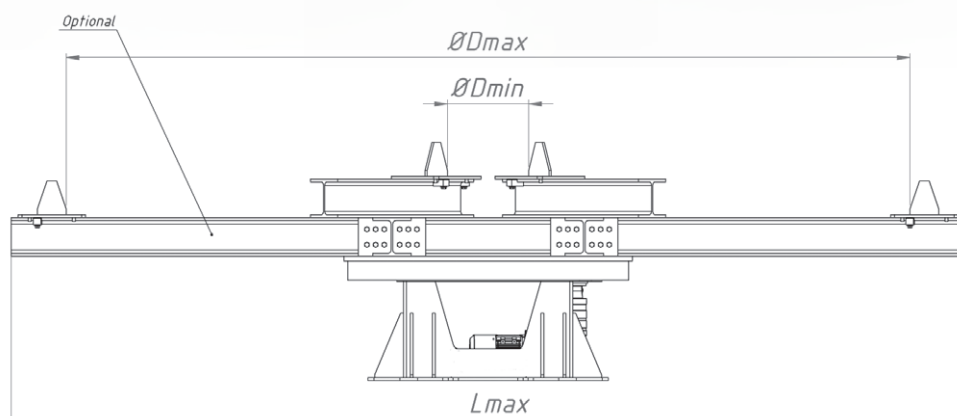
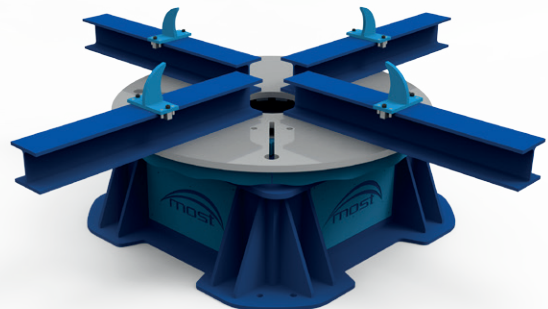
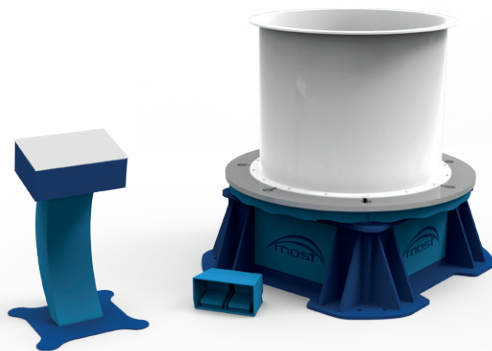
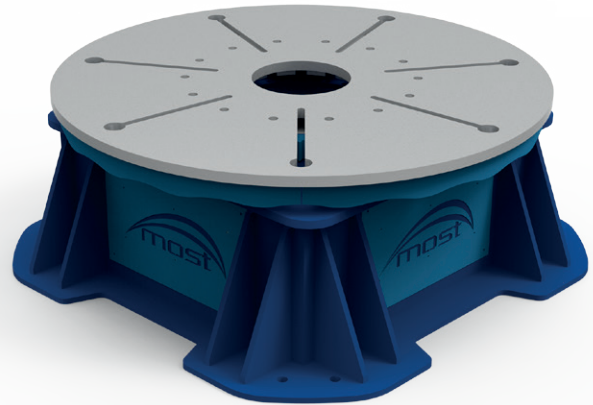


MOST MTT turntables

Rotary turntables (horizontal positioners) series MOST MTT are dedicated for precise positioning of cylindrical objects in flat or horizontal position. Primarily designed to handle applications that feature large diameter or low rigidity. The assembly in vertical position simplifies operation and eliminates the necessity of additional equipment. Inverter-controlled AC-driven rotations are smooth and accurate in all loading conditions. Positioners with maximum loading capacity up to 50000 kg.

Positioners are equipped with:

- adjustable rotation speed,
- remote controller with 10 meter cable,
- digital speed indicator on the controller panel for monitoring rotation,
- motors with brake and forced fan cooling.



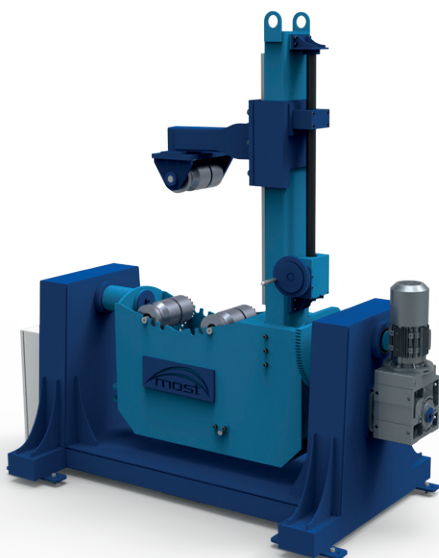
Model	Load capacity [t]	Table diameter [mm]	Power supply [V]	Rotation motor power [kW]	Table rotation speed		Diameter with additional equipment [mm]		Length overall [mm]	Length overall with additional equipment [mm]	Height overall [mm]	Weight [kg]
					Min.	Max.	Min.	Max.				
MTT-5	5	1200	400	0,55	0,005	0,25	650	4000	1200	4300	600	2000
MTT-10	10	1500	400	0,55	0,005	0,25	650	4500	1500	4800	650	2750
MTT-25	25	1800	400	0,75	0,005	0,25	650	4500	1800	4800	680	3700
MTT-50	50	2000	400	1,1	0,005	0,25	650	4000	2000	4300	700	4100

6. Pipe welding positioners MOST



02

Pipe welding positioners MOST MPP



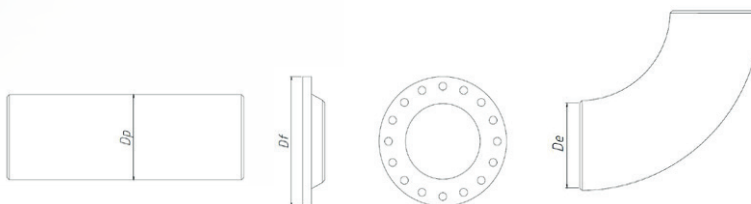
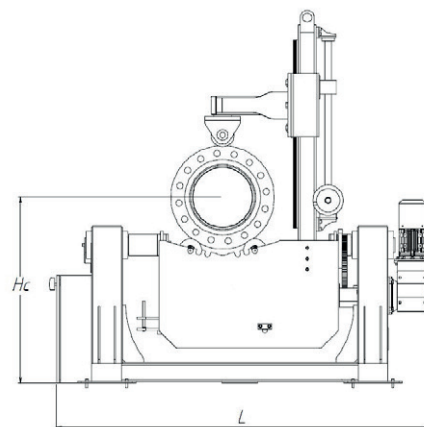
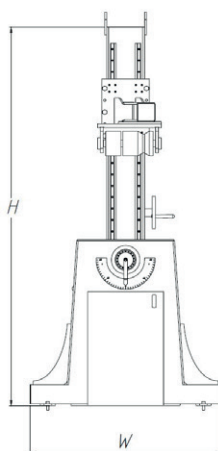
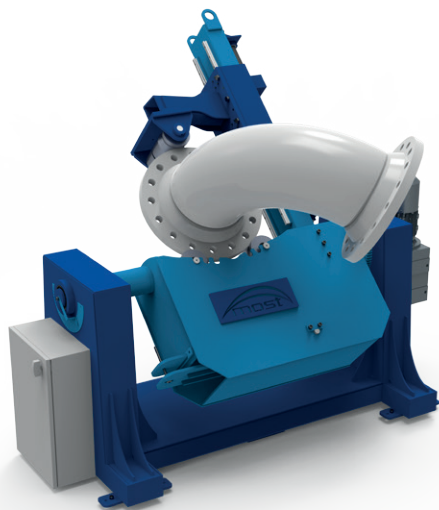
Pipe welding positioners series MPP are designed for rotating, tilting and positioning of cylindrical objects when handling or automatic welding. Particularly used in manufacturing processes of water pipe (prefabrication and assembly), or central heating elements. Pipe welding positioners greatly reduce costs and increase the quality of welds by mitigating defects. Auxiliary operations were reduced to minimum; welds are always done in the most desirable position. Perfect solution for both manual welding, and automated manufacturing processes.

Applications:

- pipes, pipe elbows, pipe flanges and others.

Main features:

- adjustable steeples rotation speed,
- quick and precise centering and clamping,
- wide range of diameter and weight of pipes,
- possible to centre pipes of equal diameter,
- rotating and tilting can be activated at the same time.



Model	Load capacity [t]	Pipe diameter		Flange diameter		Elbow diameter		Length	Width	Height	Height to the pipe axis		Rotation speed mm/min	Weight [kg]
		[cal]		[mm]		[cal]		[mm]	[mm]	[mm]	[mm]			
		Dp		Df		De		L	W	H	Hc		pot.	
		Min	Max	Min	Max	Min	Max				min	max		
MPP-1	0,75	4	24	80	700	4	24	2100	1000	2000	800	1060	125-1250	1100
MPP-1,5	1,5	4	24	80	700	4	24	2100	1200	2250	1050	1310	125-1250	1250
MPP-3	3	4	24	80	700	4	24	2100	1400	2500	1300	1560	125-1250	1400

7. Welding manipulators MOST



Welding column-boom manipulators MOST MCBM

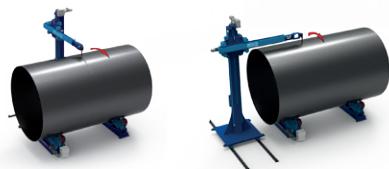
Welding column & boom manipulators MOST are developed to improve productivity and meet standards of high quality of welding works. Completed with required standard welding modules and accessories (such as turning rolls or positioners), welding manipulators complement even the most demanding hard automatic solutions. MCBM C&B are designed for longitudinal and peripheral seam welding. Available operating range from 3 x 3 m up to 5 x 5 m (vertical and horizontal movement), other operating ranges available upon request. MCBM C&B can be fitted with turning rolls or positioners, what allows to make workstation fully automated. Powered mobile rail system under column-boom can be included; specific requirements are agreed individually to meet the customer needs.

Welding manipulators are equipped with:

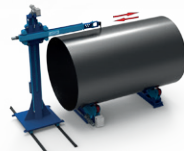
- adjustable linear boom speed,
- remote controller with 5 meter cable,
- digital speed indicator on the controller panel for monitoring rotation,
- possibility to perform fast forward and reverse boom movement control,
- counterweight system for vertical movement of boom group,
- limit switches for terminating all movements,
- motors with brake and forced fan cooling.

Options:

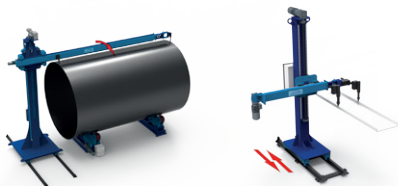
- rail system under column-boom,
- programmable control for horizontal and vertical movements,
- automatic movement for rotation of column (with motor),
- platform for seating, monitoring and walking of operator,
- remote monitoring for welding area through camera capture,
- joint/seam tracking,
- sync with other MOST products.



For outer peripheral welds, work-piece is rotated by turning roll MOST, flange welding possible.



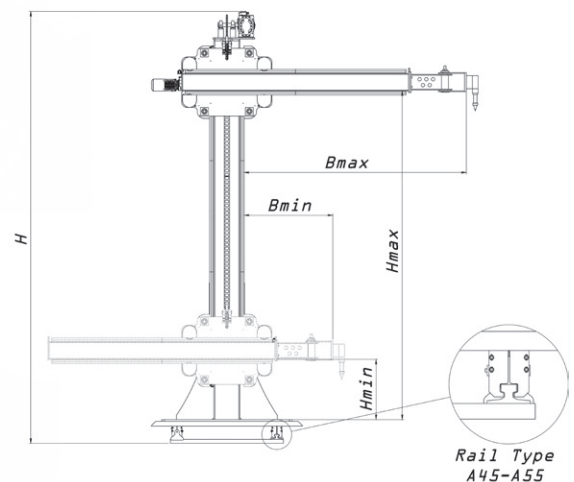
For longitudinal welds, outer and inner welds, e.g. in tank/container production.



Special solutions available, e.g. in simultaneous peripheral/longitudinal welding (with use of several weld heads).



Possible to sync C&B with positioners MOST, e.g. in end-plates/other elements manufacturing processes.



Model	Max. load of horizontal boom [kg]	Min. working height from under boom to floor [mm]	Max. working height from under boom to floor [mm]	Height overall [mm]	Boom reach [mm]		Speed of vertical axis [mm/min]	Speed of horizontal axis [mm/min]	Travers speed [mm/min]	Rotation angle of column (option) [°]	Motor power of column [kW]	Motor power of boom & travers [kW]	Weight [kg]
	F	Hmin	Hmax	H	Bmin	Bmax							
MCBM-3x3	350	780	3080	4350	1000	3500	1250	125-1250	2000	360	0,55	0,37	3450
MCBM-4x4	250	780	3780	4970	1000	4500	1250	125-1250	2000	360	0,55	0,37	2750
MCBM-5x5	200	780	5080	6350	1000	5500	1250	125-1250	2000	360	0,55	0,37	3850

8. Power source MOST



PONTE 800c/1000c/1200c/1600c

MOST Ponte-800c/1000c/1200c/1600c is a series of three-phase, liquid-cooled power source, designed for high-efficient, automated submerged arc welding processes in MIG/MAG, MMA method, with the possibility of electro-gauging. Multifunctional devices that are dedicated to automation of welding processes, and operations in demanding, difficult industrial work conditions.

The device construction is based on IGBT transistor module, with liquid cooling in a closed circuit. With this solution, it is possible to achieve the high load-capacity and power ratio. These units feature great operating parameters and high resistance to environmental factors, such as moisture and dustiness. It results in their small sizes and lightweight. All of these mentioned characteristics applied in order to create the device that meets industrial demands in the widest range possible.

All parameters are set preliminary and can be read on the display. Electronic system permits the set-point stabilization in accuracy of 2%, and usage of flat or dropping characteristics power source. Power source MOST Ponte-800c/1000c/1200c/1600c ensure the voltage stability; current stabilization starts with an automatic adjustments of wire feed speed range to set current that measures the real-time performance. All these functions are controlled by fuzzy logic processor.

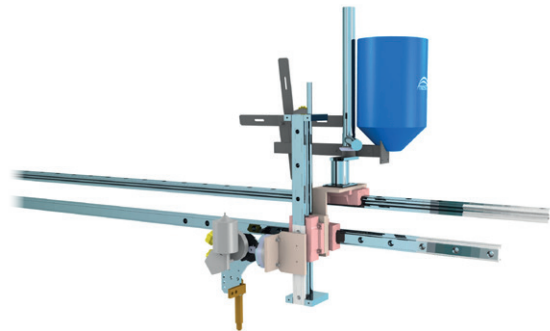
Automatic welding power sources of Ponte series are compatible with tractor welders MOST MT-2 and welding systems, such as: welding column & booms MOST MCBM, equipped with head MOST MH-2.



Model	PONTE 800c	PONTE 1000c	PONTE 1200c	PONTE 1600c
Welding range	0 – 800 A	0 – 1000 A	0 – 1200 A	0 – 1600 A
Welding current 60% DC	650 A/40 V	850 A/40 V	1000 A/40 V	1450 A/40 V
Welding current at 100% DC	550 A/40 V	700 A/40 V	850 A/40 V	1350 A/40 V
Stability parameters	2%	2%	2%	2%
Welding method	SAW, MMA, MIG/MAG, electro-gouging			
Frequency	10,5 Hz	10,5 Hz	10,5 Hz	10,5 Hz
Liquid cooling	YES	YES	YES	YES
Wire lengths	5 – 45 mb	5 – 45 mb	5 – 45 mb	5 – 45 mb
Weight	230 kg	270 kg	290 kg	310 kg

Welding head MOST MH-2 suitable for application in automated welding systems, e.g. gantries or welding column & booms MOST MCBM, also available.

Model	MOST MH-2
Wire size range	2,0 – 5,0 mm
Wire feed speed range	20 – 140 cm/min
Rated output current at 60% DC	1000 A
Rated output current at 100% DC	800 A
Welding load voltage	18 – 44 V 24 V DC 18 – 44 V
Welding load voltage	18 – 44 V

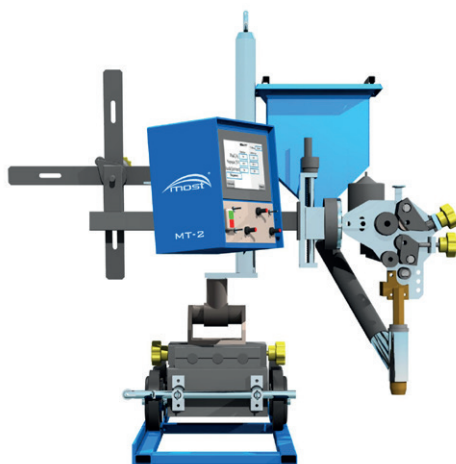


9. Tractor welder MOST



MOST MT-2 (SAW)

Tractor welder MOST MT-2 was designed for the submerged arc process in order to increase the efficiency and improve the quality of butt and fillet welds when flux welding. Simple and solid construction of this unit permits the wide range of its application, movement and mounting on various workstations. MT-2 was designed to handle the difficult industrial conditions at work, and can be used even in the most demanding applications of arc process.



Tractor MT-2 features 4-wheel drive system powered by clutch/regulator/gear/bar mechanism, and is driven by the tachometric-controlled electrical motor. Compact design permits easy set up and adjustment on work piece. Wire feeding is initiated by the electrical motor with the bearing tachometric motion control. Electronic system is controlled by microprocessor and permits the set-point stabilization in accuracy of 2%.

Power feeders MOST Ponte-800c/1000c ensure the voltage stability; current stabilization starts with an automatic adjustments of wire feed speed range to set current that measures the real-time performance.

All these functions are controlled by fuzzy logic processor.

Control panel with a touch-sensitive display PLC fitted in for programming and parameters settings. This unit is equipped with internal memory that allows setting and restoring personal welding programs, current and welding voltage measurement, preliminary setup, voltage-current graph and linear energy transfer. Intuitive control system with an additional knob to set and correct all the most important operating parameters.

Standard version includes: tractor MOST MT-2, power feeder MOST Ponte-800c or 1000c, power-control wire 20 m (2x95 mm²) and earth wire 10 m (2x95 mm² – ring terminals), track section 2x1,5 m, torch extension arm for fillet welds, swivel mast up to 50°, swivel head up to 60°, 360° head rotation around mast, vertical support L80mm, flux container 6L, laser indicator of welding axis.

Optional equipment:

- sub-atmospheric system for flux draught
- equipment for transferred arc welding process.

Welding head MOST MT-2 suitable for application in automated welding systems, e.g. gantries or welding column & booms MOST MCBM, also available.

Model	MOST MT-2
Wire size range	2,0 – 5,0 mm
Wire feed speed range	20 – 140 cm/min
Rated output current at 60% DC	1000 A
Rated output current at 100% DC	800 A
Welding load voltage	18 – 44 V 24 V DC 18 – 44 V
Range of carriage	80 mm
Welding load voltage	18 – 44 V
Range of carriage	80 mm

10. Welding fluxes dryer



MOST FD-70L

Dryer body made of the high-quality materials guarantees long-term failure-free operation upon the exploitation time. Thermal system used in his unit ensures the perfect thermal insulation. Chrom and zinc-coated inner layers provide the increased resistance to chemical agents. Unical construction of high-powered heating elements provide great efficiency and performance of flux drying. Ergonomic design, upper batch and conical dumping hatch in the bottom ensure an easy servicing and replacement. Temperature control panel is equipped with a digital display, analog or digital programmer available as an option. Stepless temperature control in range of 0-400°C and three-phase power system (option: single-phase 230 V, three-phase 210 V).

Model	MOST FD-70L
Capacity	70 L (100 kg)
Power of heating elements	3600 W
Temperature range	0 – 400 °C
Voltage	3x400 V Option: 230 V 50 Hz / 210 V 60 HZ
Thermal insulation	Mineral wool insulation with thermal screen
Container dimensions	310x310x859 mm
Outside dimensions	464x464x1480 mm
Weight	105 kg



11. Welding trolley



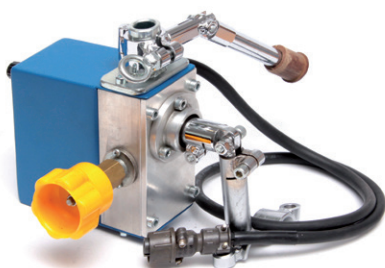
Cobra MOST

Cobra devices are lightweight, self-propelled welding carriage for MIG/MAG torches, suitable to weld horizontal fillet and butt joints. Will suit any type of semi-automatic welding machines. Control panel to enable regulation of welding speed and choice of direction. Equipped with digital speed display. Rubber (removable) castors for all four wheels that ensure smooth and stable movement. Can be freely configured by adding the following accessories: another MIG/MAG handle clamp, welding torch oscillation apparatus, outer power supply. Possibility of adaptation of existing solution to the concepts tailored to the individual needs of the customer.

Standard features: battery, charger, roll feeders (for fillet joints), wheels suitable for use on rail tracks (for butt joints), digital speed display, supports for steeples regulation of torch positions (3 pcs.) – axis X/Y and torch angle, outer power supply and oscillator plug-in possible (socket connector).

Optional features:

- welding torch MIG/MAG,
- feeder 230 V/24 V DC,
- straight rail of 3 m, length with three magnetic clamps,
- oscillator (speed regulation- up to 30 mm and oscillator speed),
- support to mount on one more torch handle,
- additional battery.



Drive speed	Weight	Dimension	Voltage	Application	Catalogue no.
10-100 cm/min	12 kg	250 x 210 x 240 mm (dl. x szer. x wys.)	battery or 230V/24V	fillet and butt joints	A9 16 000012