



### Mechanised welding with EWM: A perfect example of efficient production

It doesn't matter which degree of mechanisation you are looking for for your application. The aim is always the same: the optimum final product. EWM comes into play here and provides the correct solution for your production!

Renowned industrial enterprises worldwide and also numerous medium sized businesses and manufacturers of all sectors put their trust in coordinated welding systems, processes and components from EWM HIGHTEC WELDING. Put your trust in the sophisticated technology, know-how and innovative strength of the German welding market leader.

### An overview of our mechanisation components

#### Positioning devices

Our positioning devices are used individually or as part of circular seam welding units and they can accept a weight of up to 200 kg (horizontally) and 150 kg (vertically).

#### Circular seam welding units

These systems are primarily used for small and medium series production. These systems are used for repeat welding tasks and they can be combined with varied welding processes (e.g. MIG/MAG, TIG, TIG-cold-/hot wire, plasma, plasma-cold-/hot wire).

#### PLC controls

The PLC control which we offer puts you in a position to master all mechanisation tasks which occur without difficulty. In this you have a choice between the comfortable desk solution which makes trouble free programming of the welding task possible and an RC variant (remote control).

#### CB controls

This control is a favourable solution which is particularly suitable for simple manual and mechanised welding tasks.

#### Container rotation devices

For mechanisation tasks for large containers and pipes, container rotating devices are offered. EWM has these components with a load of up to 6000 kg for a retainer diameter with a minimum of  $\varnothing$  9 mm and maximum of  $\varnothing$  3000 mm in the programme.





Overview



Mechanisation		Page
Components	Positioning devices	PT series <b>118</b>
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Circumferencial seam welding unit	Example systems	Typ S <b>121</b>
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**Positioning devices ■ PT series**

**PT-102**



- Robust and heavy-duty construction
- Can be used universally for welding in convenient positions
- 3 controls for selection: CB-001D (Standard), CB-002D (Sequence Sensor), CB-007 (Sequence Pneumatic)
- Hollow shaft 38.5 mm e.g. for forming gas
- Angle of inclination can be infinitely adjusted

<b>Mains voltage</b>	V	115 / 230
<b>Mains frequency</b>	Hz	50 / 60
<b>Mains fuses (slow-blow)</b>	A	10
<b>Angle of inclination</b>	°	0 - 120
<b>Turntables</b>	mm	320
<b>Dimensions</b>	mm	500 x 390 x 380
<b>Weight</b>	kg	37

Type	Designation	Speed	Item no.	P	Price
		U/min			per pc.
PT-102A	Positioning devices, gear mechanism A	0.15 - 5	094-016128-00500	R2	€ 1,230.00
PT-102B	Positioning devices, gear mechanism B	0.3 - 10	094-016130-00500	R2	€ 1,230.00

► Order control at the same time!

**PT-202**



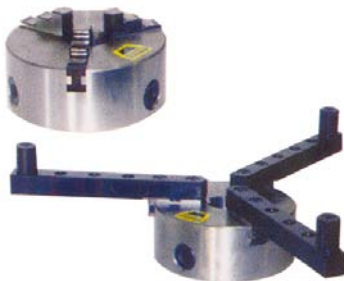
- Robust and heavy-duty construction
- Can be used universally for welding in convenient positions
- 3 controls for selection: CB-001D (Standard), CB-002D (Sequence Sensor), CB-007 (Sequence Pneumatic)
- Hollow shaft 38.5 mm e.g. for forming gas
- Angle of inclination can be infinitely adjusted

<b>Mains voltage</b>	V	115 / 230
<b>Mains frequency</b>	Hz	50 / 60
<b>Mains fuses (slow-blow)</b>	A	10
<b>Angle of inclination</b>	°	0 - 120
<b>Turntables</b>	mm	320
<b>Dimensions</b>	mm	500 x 390 x 380
<b>Weight</b>	kg	40

Type	Designation	Speed	Item no.	P	Price
		U/min			per pc.
PT-202A	Positioning devices, gear mechanism A	0.15 - 5	094-016131-00500	R2	€ 1,560.00
PT-202B	Positioning devices, gear mechanism B	0.3 - 10	094-016132-00500	R2	€ 1,560.00

► Order control at the same time!

**3BS**



- 3 jaw clamping chuck suitable for PT102 and PT202

Type	Designation	Diameter	Item no.	P	Price
		mm			per pc.
3BS	3-jaw clamping chuck	4 - 150	094-010707-00000	R2	€ 455.00
		4 - 450	094-010266-00000	R2	€ 815.00
		4 - 500	094-013510-00000	R2	€ 1,150.00


**Container rotation devices ■ TR series**
**TR-0102**


- Rotation unit for rotating and positioning containers and cylindrical workpieces
- LED display for speed of rotation
- Drive and follower units in solid steel design with polyurethane-coated metal rollers
- Fast and simple adjustment for different workpiece diameters
- Emergency stop
- Foot operated switch for start/stop
- Welding speed/rapid speed and direction of rotation changeover switch
- Direction of rotation changeover switch
- Rotary dial for continuously variable setting of speed of rotation
- Key button with control lamp for 'ready for operation'
- Hand remote control with changeover switch for start/stop, right/left running, welding speed/rapid speed, rotary control for continuously variable setting of speed of rotation, display for speed of rotation, emergency off

<b>Mains voltage</b>	V	115 / 230
<b>Mains frequency</b>	Hz	50 / 60
<b>Mains fuses (slow-blow)</b>	A	10
<b>Speed</b>	mm/ min	80 - 1600
<b>Roller diameter</b>	mm	200
<b>Workpiece diameter</b>	mm	20 - 800
<b>Drive unit dimensions</b>	mm	320 x 542 x 335
<b>Follower unit dimensions</b>	mm	160 x 450 x 335
<b>Drive unit weight</b>	kg	37
<b>Follower unit weight</b>	kg	17

Type	Designation	Item no.	P	Price
TR-102	Container rotation device consisting of drive and follower unit, control and foot-operated switch	094-016138-00500	R2	<b>per pc.</b> € 2,450.00

**TRi**


- Additional follower units for container rotating devices

<b>Dimensions</b>	mm	160 x 450 x 335
<b>Weight</b>	kg	17

Type	Designation	Item no.	P	Price
TR102i	Follower unit	094-016139-00500	R2	<b>per pc.</b> € 460.00



**Controls CB series**

**CB-001 D**



- Control for PT-102 and PT-202
- LED display for speed of rotation
- Emergency stop
- Signal light for readiness for operation
- Foot operated switch for start/stop
- Non-latched and non-latched time controlled
- Welding speed/rapid speed and direction of rotation changeover switch
- Changeover switch test/welding operation
- Rotary dial for continuously variable setting of speed of rotation
- Rotary dial for continuously variable setting of rotation time
- Potential-free contact: e.g. start/stop signal for power source
- Possibility of connecting foot operated remote control (CB-001V)

Type	Designation	Item no.	P	Price
CB-001D	Standard control	094-010709-00001	R2	<b>per pc.</b> € 475.00
CB-001DV	Control for foot-operated remote control	094-010710-00001	R2	€ 690.00
FR 001	Foot-operated remote control	094-010716-00000	R2	€ 420.00

**CB-002D**



- Control for PT-102 and PT-202
- LED display for speed of rotation
- Emergency stop
- Signal light for readiness for operation
- Foot operated switch for start/stop
- Non-latched and non-latched time controlled
- Welding speed/rapid speed and direction of rotation changeover switch
- Changeover switch test/welding operation
- Rotary dial for continuously variable setting of speed of rotation
- Rotary dial for continuously variable setting of rotation time
- Potential-free contact: e.g. start/stop signal for power source
- Overlapping weld seam
- Start delay for turntable
- Home position

Type	Designation	Item no.	P	Price
CB-002D	Sequence control, sensor	094-016236-00001	R2	<b>per pc.</b> € 1,090.00
ON 2-TAKT SPEZIAL CB-002	Stop for power source at home position for using special non-latched secondary current	094-014575-00000	R2	€ 195.00

**CB-007**



- Control for PT-102 and PT-202
- With touchscreen
- Emergency stop
- Signal light for readiness for operation
- Non-latched and non-latched time controlled
- Direction of rotation changeover switch
- Rotary dial for continuously variable setting of speed of rotation
- Rotary dial for continuously variable setting of rotation time
- Potential-free contact: e.g. start/stop signal for power source
- Process control pneumatic

Type	Designation	Item no.	P	Price
CB-007	Sequence control, pneumatic	094-010268-00000	R2	<b>per pc.</b> € 1,775.00



Example systems Typ S

Typ S



- Universal system comprising rotary tilting table and torch stand.
- Positioner with clamping system
- Torch positioning via precise transverse support
- All components HF-protected
- Time controlled process
- Hollow shaft 38.5 mm e.g. for forming gas
- Start via foot operated switch
- Angle of inclination can be infintely adjusted
- Direction of rotation changeover switch
- Changeover switch test/welding operation
- Rotary dial for continuously variable setting of speed of rotation
- Rotary dial for continuously variable setting of rotation time
- Potential-free contact: e.g. start/stop signal for power source

<b>Mains voltage</b>	V	115 / 230
<b>Mains frequency</b>	Hz	50 / 60
<b>Mains fuses (slow-blow)</b>	A	10
<b>Speed</b>	U/min	0.15 - 5
<b>Angle of inclination</b>	°	0 - 120
<b>Turntables</b>	mm	320

Type	Designation	Item no.	P	Price
				<b>per pc.</b>
Typ S	Positioning devices, gear mechanism A	094-016128-00500	R2	€ 1,230.00
	Standard control	094-010709-00001	R2	€ 475.00
	Basic frame, 600 mm	094-010696-00000	R2	€ 110.00
	Assembly stand, 500 mm	094-010257-00000	R2	€ 110.00
	Stand flange	094-010258-00001	R2	€ 95.00
	Torch stand, 750 mm	094-010259-00000	R2	€ 50.00
	Retainer clip, Y-axis holder	094-010260-00001	R2	€ 45.00
	Clamping chuck, Y-axis	094-010261-00001	R2	€ 75.00
	Stand, Y-axis, 400 mm	094-010262-00000	R2	€ 110.00
	Linear adjustment, 50 mm, X axis	094-010703-00000	R2	€ 250.00
	Linear adjustment, 50 mm, Y axis	094-010703-00000	R2	€ 250.00
	Torch holder	094-010704-00000	R2	€ 60.00
	3-jaw clamping chuck	094-010707-00000	R2	€ 455.00
	-	Total Typ S		€ 3.315.00

► Can also be supplied with positioner PT-202 and the controls CB-002D or CB-007.  
Alternative components on request!



**Example systems ■ Typ R**

**Typ R**



- Universal system comprising rotary tilting table and torch stand.
- Positioner with clamping system
- Torch positioning via precise transverse support
- All components HF-protected
- Time controlled process
- Hollow shaft 38.5 mm e.g. for forming gas
- Start via foot operated switch
- Direction of rotation changeover switch
- Changeover switch test/welding operation
- Rotary dial for continuously variable setting of speed of rotation
- Rotary dial for continuously variable setting of rotation time
- Potential-free contact: e.g. start/stop signal for power source
- Runner for support of the workpiece

<b>Mains voltage</b>	V	115 / 230
<b>Mains frequency</b>	Hz	50 / 60
<b>Mains fuses (slow-blow)</b>	A	10
<b>Speed</b>	U/min	0.15 - 5
<b>Angle of inclination</b>	°	0 - 120
<b>Turntables</b>	mm	320
<b>Workpiece diameter</b>	mm	420

Type	Designation	Item no.	P	Price
				<b>per pc.</b>
Typ R	Positioning devices, gear mechanism A	094-016128-00500	R2	€ 1,230.00
	Standard control	094-010709-00001	R2	€ 475.00
	Basic frame, 1200 mm	094-010696-00000	R2	€ 110.00
	Assembly stand, 500 mm	094-010257-00000	R2	€ 110.00
	Stand flange	094-010258-00001	R2	€ 95.00
	Torch stand, 750 mm	094-010259-00000	R2	€ 50.00
	Retainer clip, Y-axis holder	094-010260-00001	R2	€ 45.00
	Clamping chuck, Y-axis	094-010261-00001	R2	€ 75.00
	Stand, Y-axis, 400 mm	094-010262-00000	R2	€ 110.00
	Linear adjustment, 50 mm, X axis	094-010703-00000	R2	€ 250.00
	Linear adjustment, 50 mm, Y axis	094-010703-00000	R2	€ 250.00
	Torch holder	094-010704-00000	R2	€ 60.00
	Follower unit	094-016139-00500	R2	€ 460.00
3-jaw clamping chuck	094-010707-00000	R2	€ 455.00	
	-	Total Typ R		€ 3,775.00

► Can also be supplied with positioner PT-202 and the controls CB-002D or CB-007.  
Alternative components on request!



Example systems Typ L

Typ L



- Universal system comprising rotary tilting table and torch stand.
- Positioner with clamping system
- Torch positioning via precise transverse support
- All components HF-protected
- Time controlled process
- Hollow shaft 38.5 mm e.g. for forming gas
- Start via foot operated switch
- Direction of rotation changeover switch
- Changeover switch test/welding operation
- Rotary dial for continuously variable setting of speed of rotation
- Rotary dial for continuously variable setting of rotation time
- Potential-free contact: e.g. start/stop signal for power source
- Pneumatic tailstock with manometer

<b>Mains voltage</b>	V	115 / 230
<b>Mains frequency</b>	Hz	50 / 60
<b>Mains fuses (slow-blow)</b>	A	10
<b>Speed</b>	U/min	0.15 - 5
<b>Angle of inclination</b>	°	0 - 120
<b>Turntables</b>	mm	320
<b>Workpiece diameter</b>	mm	420
<b>Workpiece length</b>	mm	550

Type	Designation	Item no.	P	Price
				<b>per pc.</b>
Typ L	Positioning devices, gear mechanism A	094-016128-00500	R2	€ 1,230.00
	Standard control	094-010709-00001	R2	€ 475.00
	Basic frame, 1200 mm	094-010256-00000	R2	€ 175.00
	Assembly stand, 500 mm	094-010257-00000	R2	€ 110.00
	Stand flange	094-010258-00001	R2	€ 95.00
	Torch stand, 750 mm	094-010259-00000	R2	€ 50.00
	Retainer clip, Y-axis holder	094-010260-00001	R2	€ 45.00
	Clamping chuck, Y-axis	094-010261-00001	R2	€ 75.00
	Stand, Y-axis, 400 mm	094-010262-00000	R2	€ 110.00
	Linear adjustment, 50 mm, X axis	094-010703-00000	R2	€ 250.00
	Linear adjustment, 50 mm, Y axis	094-010703-00000	R2	€ 250.00
	Torch holder	094-010704-00000	R2	€ 60.00
	Pneumatic tailstock, 75 mm	094-010265-00001	R2	€ 1,050.00
	3-jaw clamping chuck	094-010707-00000	R2	€ 455.00
	-	Total Typ L		€ 4.430.00

► Can also be supplied with positioner PT-202 and the controls CB-002D or CB-007.  
Alternative components on request!





Example systems ■ Typ U

Typ U



- Universal system comprising rotary tilting table and torch stand.
- Positioner with clamping system
- Torch positioning via precise transverse support
- All components HF-protected
- Time controlled process
- Hollow shaft 38.5 mm e.g. for forming gas
- Start via foot operated switch
- Angle of inclination can be infinitely adjusted
- Direction of rotation changeover switch
- Changeover switch test/welding operation
- Rotary dial for continuously variable setting of speed of rotation
- Rotary dial for continuously variable setting of rotation time
- Potential-free contact: e.g. start/stop signal for power source
- Pneumatic tailstock with manometer and switch

<b>Mains voltage</b>	V	115 / 230
<b>Mains frequency</b>	Hz	50 / 60
<b>Mains fuses (slow-blow)</b>	A	10
<b>Speed</b>	U/min	0.15 - 5
<b>Angle of inclination</b>	°	0 - 120
<b>Turntables</b>	mm	320
<b>Workpiece diameter</b>	mm	420
<b>Workpiece length</b>	mm	550

Type	Designation	Item no.	P	Price
				<b>per pc.</b>
Typ U	Positioning devices, gear mechanism A	094-016128-00500	R2	€ 1,230.00
	Standard control	094-010709-00001	R2	€ 475.00
	Holder	094-010697-00001	R2	€ 75.00
	Assembly stand, 650 mm	094-010698-00000	R2	€ 135.00
	Stand flange	094-010699-00001	R2	€ 110.00
	90° torch stand, 600 mm x 400 mm	094-010700-00000	R2	€ 65.00
	Retainer clip, Y-axis holder	094-010701-00001	R2	€ 45.00
	Clamping chuck, Y-axis	094-010702-00001	R2	€ 75.00
	Stand, Y-axis, 400 mm	094-010262-00000	R2	€ 110.00
	Linear adjustment, 50 mm, X axis	094-010703-00000	R2	€ 250.00
	Linear adjustment, 50 mm, Y axis	094-010703-00000	R2	€ 250.00
	Torch holder	094-010704-00000	R2	€ 60.00
	Pneumatic tailstock, 75 mm	094-010706-00001	R2	€ 1,050.00
	3-jaw clamping chuck	094-010707-00000	R2	€ 455.00
	-	Total Typ U		€ 4,385.00

► Can also be supplied with positioner PT-202 and the controls CB-002D or CB-007.  
Alternative components on request!