

Mechanised welding with EWM: A perfect example of efficient production

Glt 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 (horizon-tally) 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).



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 \emptyset 9 mm and maximum of \emptyset 3000 mm in the programme.





Overview



Mechanisation			Page
	Positioning devices	PT series	118
Components	Container rotation devices	TR series	119
	Controls	CB series	120
		Тур S	121
		Typ R	122
Circumferencial seam welding unit	Example systems	Typ L	123
		Typ U	124



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

Туре	Designation	Speed	ltem no.	Ρ	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!



- 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 infintely adjusted

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

Туре	Designation	Speed	ltem no.	Ρ	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!



• 3 jaw clamping chuck suitable for PT102 and PT202

Туре	Designation	Diameter	ltem no.	Ρ	Price
		mm			per pc.
		4 - 150	094-010707-00000	R2	€ 455.00
3BS	3-jaw clamping chuck	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

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

Туре	Designation	ltem no.	Р	Price
				per pc.
TR-102	Container rotation device consisting of drive and follower unit, control and foot-ope- rated switch	094-016138-00500	R2	€ 2,450.00

TRi



Additional follower units for container rotating devices						
Dimensions	mm	160 x 450 x 335				
Weight	kg	17				

Туре	Designation	ltem no.	Ρ	Price
				per pc.
TR102i	Follower unit	094-016139-00500	R2	€ 460.00



Controls CB series



CB-001 D	 Control for PT-102 and PT-202 LED display for speed of rotation
ewm	Emergency stop
•	Signal light for readiness for operation
0 -0	Foot operated switch for start/stop
1.112	Non-latched and non-latched time controlled
eer	Welding speed/rapid speed and direction of rotation changeover switch
60	Changeover switch test/welding operation
	Rotary dial for continuously variable setting of speed of rotation
· (0)	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)

Туре	Designation	Item no. P	Price
			per pc.
CB-001D	Standard control	094-010709-00001 R2	€ 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
aut	LED display for speed of rotation Emergency stop
ewm	Signal light for readiness for operation
0	Foot operated switch for start/stop
a a a	Non-latched and non-latched time controlled
in the second	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

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

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	

Туре	Designation	ltem no.	Ρ	Price
				per pc.
CB-007	Sequence control, pneumatic	094-010268-00000	R2	€ 1,775.00





Example systems Typ S

 Positioner with clamping system Forch 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 speed of rotation Rotary dial for continuously variable setting of rotation time Potential-free contact: e.g. start/stop signal for power source Mains frequency Hz Speed U/min O.15 - 5 Angle of inclination 0 - 120 Turntables mm Turntables O94-016128-00500 R2 E 110.00 Basic frame, 600 mm O94-01028-00001 R2 E 10.00 Standard control O94-01028-00001 R2 E 10.00 Standard control O94-01028-00001 R2 E 10.00 Standard control O94-01028-00000 R2 E 10.00 Standard control O94-01028-00001 R2 E 10.00 Standard control O94-01028-00001 R2 E 10.00 Standard control OP4-01028-00001 R2 E 10.00 Standard control Retainer clip, Y-axis holder 	Typ S		Universal system comprisir	ng rotary tilting t	able and torch stand.				
Po S Po S Po Stioning devices, gear mechanism A Po Stioning devices, gear mechanism A Po S	Typ 5		 Universal system comprising rotary tilting table and torch stand. Positionar with clamping system 						
 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 Mains roltage Mains frequency Hz Sol / 60 Mains fuses (slow-blow) A O - 120 Turntables Mm 320 				•					
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Po S Angle of inclination can be infintely adjusted Direction of rotation changeover switch Changeover switch test/welding operation Rotary dial for continuously variable setting of rotation time Potential-free contact: e.g. start/stop signal for power source Mains requency Hz Solution Designation Positioning devices, gear mechanism A Standard control Basic frame, 600 mm Assembly stand, 500 mm Stand flange Torch stand, 750 mm Po S Po S Angle of inclination can be infinitely adjusted Designation Designation Control Cont	A set		 Start via foot operated swith 	ch					
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Mains frequency Mains fuses (slow-blow) Hz 50 / 60 Speed U/min 0.15 - 5 Angle of inclination ° 0 - 120 Turntables mm 320 ype Designation P Price Positioning devices, gear mechanism A 994-016128-00500 R2 € 1,230.00 Standard control 094-010709-00001 R2 € 475.00 Basic frame, 600 mm 094-010257-00000 R2 € 110.00 Assembly stand, 500 mm 094-010258-00001 R2 € 110.00 Stand flange 094-010258-00000 R2 € 110.00 Torch stand, 750 mm 094-010258-00000 R2 € 110.00 Stand flange 094-010258-00000 R2 € 110.00 Torch stand, 750 mm 094-010258-00000 R2 € 110.00 Stand, Y-axis holder 094-010258-00000 R2 € 110.00 Clamping chuck, Y-axis 094-010258-00000 R2 € 110.00 Stand, Y-axis holder 094-010258-00000 R2 € 10.00 Clamp			• Fotential free contact. e.g.						
Mains fuses (slow-blow) A 10 Speed U/min 0.15 - 5 Angle of inclination ° 0 - 120 Turntables mm 320 ype Designation P Price Positioning devices, gear mechanism A 094-016128-00500 R2 € 1,230.00 Standard control 094-010696-00000 R2 € 475.00 Basic frame, 600 mm 094-010257-00000 R2 € 110.00 Standard control 094-010257-00000 R2 € 110.00 Stand flange 094-010258-00001 R2 € 50.00 Torch stand, 750 mm 094-010260-00001 R2 € 50.00 Retainer clip, Y-axis holder 094-010260-00001 R2 € 45.00 Clamping chuck, Y-axis 094-010260-00001 R2 € 45.00 Stand, Y-axis, 400 mm 094-010260-00001 R2 € 45.00 Linear adjustment, 50 mm, X axis 094-010260-00001 R2 € 45.00			Mains voltage	V	115 / 230				
Speed U/min 0.15 - 5 Angle of inclination ° 0 - 120 Turntables mm 320 P Price P Price P Price P Perice P			Mains frequency	Hz	50 / 60	50 / 60			
Angle of inclination ° 0 - 120 Turntables mm 320 pe Designation ° 9 Price P Price 9 Perce Positioning devices, gear mechanism A 094-016128-00500 R2 € 1230.00 Standard control 094-010709-00001 R2 € 475.00 Basic frame, 600 mm 094-010257-00000 R2 € 110.00 Assembly stand, 500 mm 094-010257-00000 R2 € 95.00 Stand flange 094-010259-00000 R2 € 95.00 Torch stand, 750 mm 094-010259-00000 R2 € 45.00 Retainer clip, Y-axis holder 094-010260-00001 R2 € 45.00 Clamping chuck, Y-axis 094-010261-00001 R2 € 45.00 Stand, Y-axis, 400 mm 094-010260-00000 R2 € 45.00 Linear adjustment, 50 mm, X axis 094-010260-00000 R2 € 250.00			Mains fuses (slow-blow) A 10						
Turntables mm 320 ype Designation Item no. P Price Positioning devices, gear mechanism A 094-016128-00500 R2 € 1,230.00 Standard control 094-010709-00001 R2 € 475.00 Basic frame, 600 mm 094-010257-00000 R2 € 110.00 Assembly stand, 500 mm 094-010257-00000 R2 € 110.00 Stand flange 094-010259-00000 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 € 475.00 Stand, Y-axis, 400 mm 094-010261-00001 R2 € 110.00 Linear adjustment, 50 mm, X axis 094-010260-00001 R2 € 450.00			Speed U/min 0.15 - 5						
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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 € 50.00 Clamping chuck, Y-axis 094-010260-00001 R2 € 75.00 Stand, Y-axis, 400 mm 094-010262-00000 R2 € 110.00 Linear adjustment, 50 mm, X axis 094-010262-00000 R2 € 250.00							per pc.		
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 € 45.00 Stand, Y-axis, 400 mm 094-010262-00000 R2 € 110.00 Linear adjustment, 50 mm, X axis 094-010263-00000 R2 € 250.00		Positioning devices, gear	mechanism A		094-016128-00500	R2	€ 1,230.00		
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 € 45.00 Stand, Y-axis, 400 mm 094-010262-00000 R2 € 110.00 Linear adjustment, 50 mm, X axis 094-010703-00000 R2 € 250.00		Standard control			094-010709-00001	R2	€ 475.00		
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 € 45.00 Stand, Y-axis, 400 mm 094-010262-00000 R2 € 110.00 Linear adjustment, 50 mm, X axis 094-010703-00000 R2 € 250.00		Basic frame, 600 mm			094-010696-00000	R2	€ 110.00		
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 094-010260-00001 R2 € 45.00 Stand, Y-axis, 400 mm 094-010262-00000 R2 € 110.00 Linear adjustment, 50 mm, X axis 094-010703-00000 R2 € 250.00	Assembly stand, 500 mn		1	094-010257-00000		€ 110.00			
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					094-010258-00001		€ 95.00		
P S 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									
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	Typ S		er						
Linear adjustment, 50 mm, X axis 094-010703-00000 R2 € 250.00	Clamping chuck, Y-axis						€ 75.00		
Linear adjustment, 50 mm, Y axis 094-010703-00000 R2 250.00									
Torch holder 004 010704 00000 P2 6 60 00		🛛 Linear adjustment, 50 mi	m, y axis	094-010/03-00000	K2	€ 250.00			

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.

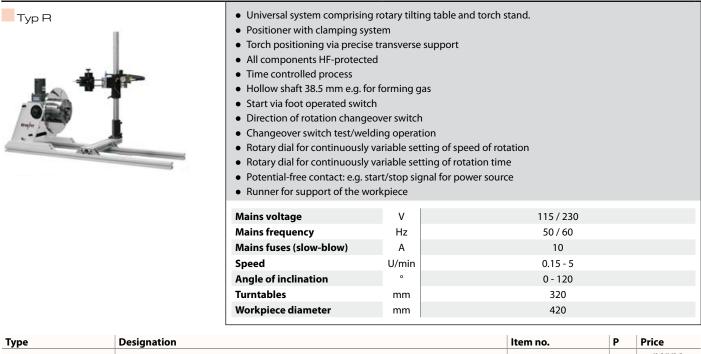
Alternative components on request!







Example systems Typ R



				per pc.
	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
Typ R	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



- 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

Mains voltage	V	115 / 230
Mains frequency	Hz	50 / 60
Mains fuses (slow-blow)	Α	10
Speed	U/min	0.15 - 5
Angle of inclination	۰	0 - 120
Turntables	mm	320
Workpiece diameter	mm	420
Workpiece length	mm	550

Туре	Designation	ltem no.	Ρ	Price
				per pc.
	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
Typ L	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

Тур Ц	 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 Pneumatic tailstock with manometer and switch 						
	Mains voltageV115/230Mains frequencyHz50/60						
	Mains fuses (slow-blow)	A	10				
	Speed	U/min	0.15 - 5				
	Angle of inclination	0	0 - 120				
	Turntables mm 320						
	Workpiece diameter	mm	420				
	Workpiece length	mm	550				

Туре	Designation	ltem no.	Ρ	Price
				per pc.
	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
Typ U	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!

