

JAVAC

Your Experts in Welding

Complete Catalogue
08 | 2019

JAVAC

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Symbols used

Get a quick overview with our practical symbol system.



Machine welds electrodes



Machine suitable for TIG welding



Machine suitable for MIG/MAG welding



Machine suitable for plasma cutting



Machine with inverter technology



Machine with IGBT technology



Machine is HF-protected



Machine with Lift TIG



Machine with HF-ignition



Machine uses alternating current



Machine uses cflow



Machine suitable for pulse welding



Machine equipped with Hot Start



Machine equipped with Arc Force



Machine equipped with Upslope



Machine equipped with Downslope



Machine equipped with thermostat



Machine equipped with wire feed



Air cooling



Protection class IP 23



Machine suitable for generators

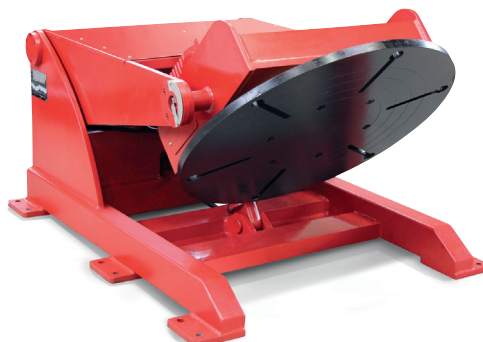


Spot welding possible

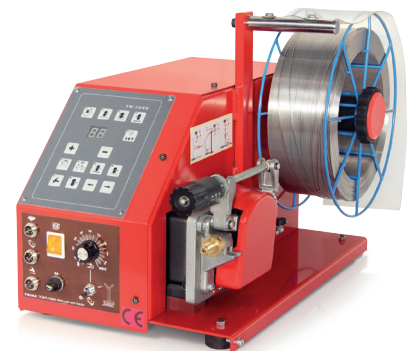
DC Pulse TIG / MMA welding machine
with IGBT- technology Page 18



Hydraulic turntable
Max. load 500 kg – 15.000 kg
Page 117



Cold wire feeder
Servo drive with 4 wheels
Page 22



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You will find a current version of our complete catalogue as well as constantly updated offers online at: www.javac.be

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Automatic Welding Helmets

Bestview VIII, Top Grade 1/1/1/1

Comfortable, fully automatic, impact resistant

The new Bestview VIII with automatic dimout is suitable both for welding and grinding. The helmet is also equipped with an extra large field of view. Spectacle wearers can leave their glasses away by adding the optional magnifier, which makes the helmet even more comfortable.

Features

- Spectacle wearers: the optional magnifier makes your glasses superfluous!
- Suitable for TIG welding! Dims out from as little as 3 amps.
- BESTVIEW VIII is suitable both for welding and grinding.
- Bestview VIII is equipped with 4 sensors.
- Turn-over headstrap mechanism adjusting the center of gravity to the user.
- Battery exchange possible.
- 1 × CR2450-lithium batteries.



Bestview VIII, graphic
Item no.: 31877223

TOP GRADE!
4x1

TIG
suitable

Suitable
for
grinding



Bestview VIII, red
Item no.: 31877221

Model	Bestview VIII
Field of view	100 x 65 mm
Filter measurements	125 x 106 x 20 mm
UV/IR-protection	up to dimout no. DIN16
Light state	DIN 4
Variable dimout can be selected	from DIN 9 to DIN 13 or from DIN 4 to DIN 8
Power on/off	fully automatic
Battery exchangeable	yes
Switching time light-dark	0,00003 s
Switching time dark-light	0,25 s - 0,8 s
Functions	welding/grinding
Operation temperature	-5° C bis +55° C
Storage temperature	-20° C bis +70° C
Material	Polyamid Nylon
Weight	490 g
Approval number	4/4-8/9-13ART1/1/1/1EN379CE

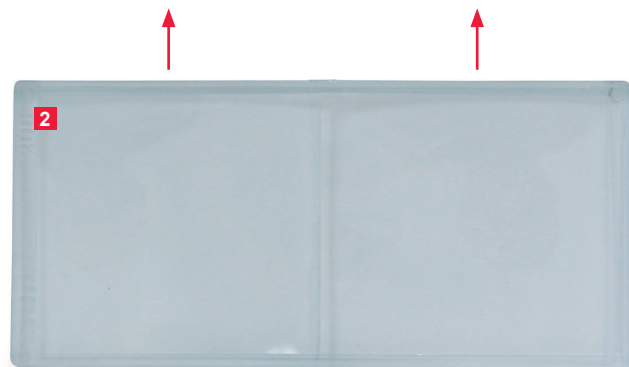
Bestview VIII, white
Item no.: 31877220



Automatic Welding Helmets

Bestview VIII, Top Grade 1/1/1/1

- 1 XXL field of view
- 2 Slide-in device for the optional magnifier
- 3 Switching from welding to grinding mode possible. Also the variable dimout can be set in two steps by the switch.
- 4 Battery test button
- 5 Controller for the variable dimout time: DIN 9 to DIN 13 or DIN 4 to DIN 8 (can be selected with the switch No 3). Adjustment of photosensitivity allows the adjustment to the room situation.
- 6 Slipcase for the exchangeable Lithium CR2450 coin battery
- 7 Controller to adjust the switching-time (short – long).
- 8 Controller for the sensibility of the sensors (from hight to low).



Accessories

Item no.

Outer protective glass	77980453
Inner protective glass	77980456
Headstrap	31871124
Magnifier	77890457



Automatic Welding Helmets

Bestview VII, Top Grade

Comfortable, fully automatic, impact resistant

The new Bestview VII with automatic dimout is suitable both for welding and grinding. Due to the innovative turn-over headstrap mechanism the helmet's centre of gravity adjusts itself to that of the wearer's head regardless of whether the helmet is worn up or down. This design greatly reduces pressure on the wearer's head and neck which makes Bestview VII helmets even more comfortable for the user.

Features of BESTVIEW VII Helmet

- Suitable for TIG welding! Dims out from as little as 9 amps.
- BESTVIEW VII is suitable both for welding and grinding.
- Equipped with 4 sensors.
- Turn-over headstrap mechanism adjusting the center of gravity to the user.
- Battery exchange possible.
- 2 × 3V lithium batteries.



TIG
suitable

Suitable
for
grinding

Accessories

Item no.

Outer protective glass	77980452
Headstrap	31871122



Model Bestview VII Black Art
Item no.: 31877212

Model	Bestview VII
Field of view	98 x 55 mm
Filter measurements	110 x 90 x 9 mm
UV/IR protection	up to dimout no. DIN16
Light state	DIN 4
Variable dimout	from DIN 9 up to DIN 13
Power on/off	fully automatic
Battery exchangeable	yes
Switching time light-dark	0,00003 s
Switching time dark-light	0,25 s - 0,8 s
Operation	welding/grinding
Operation temperature	-5°C to +55°C
Storage temperature	-20°C to +70°C
Material	polyamide nylon
Total weight	470 g
Approval number	4/9-13 JAVAC 1/1/1/2 / 379 CE



Bestview VII
Item no.: 31877210

Automatic Welding Helmets

Bestview VII

1 4 sensors for a fast and safe arc detection with a field of view of 98 x 55 mm.

2 Outer glass cover is inserted from the inside. Thus even seals tighter and is a better protection of the filter cassette against welding sparks.

3 - Adjustable lightening delay.
- Variable dimout manually adjustable from protection class DIN 9 to DIN 13.
- Adjustment of photosensitivity allows the adjustment to the room situation.

4 Filter cassette easily exchangeable without tools.

5 Two 3V lithium batteries easily exchangeable for a longer service life.

6 New turn-over headstrap for even more wearing comfort.

7 Switching from welding to grinding mode possible without taking off the helmet.

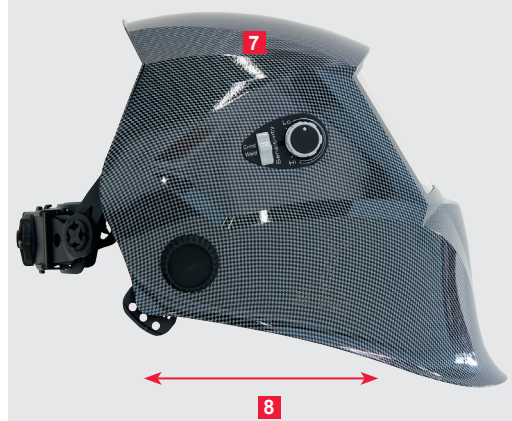
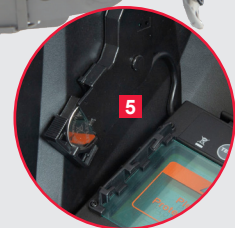
8 The new turn-over headstrap allows a better distance control between eyes and field of view. Thus, it is optimally suited for spectacles wearers.



CE



Fig. (5) Battery



Automatic Welding Helmets

Bestview IV Carbon

Fully automatic, impact resistant, convenient – and they look fantastic!

Bestview IV Carbon and Black with automatic dimout are suitable both for welding and grinding. They have the same excellent wearing features as all Bestview helmets.



Carbon Red
Item no.: 31877111

Approval no.
1/2/1/1

3 years of warranty

Model	Bestview IV Carbon
Field of view	98 x 43 mm
Filter measurements	110 x 90 x 9 mm
UV/IR protection	constant up to dimout no. DIN16
Light state	DIN 4
Variable dimout	from DIN 9 to DIN 13
Power on/off	fully automatic
Switching time light-dark	0,03 – 0,8 ms
Switching time dark-light	0,25 s – 0,8 s
Operation	welding/grinding
Operation temperature	-5°C to +55°C
Storage temperature	-20°C to +70°C
Material	polyamide
Total weight	530 g
Approval number	4/9-13 JAVAC 1/2/1/1 / 379 CE



Carbon Blue
Item no.: 31877111Blau



Carbon Black
Item no.: 31877111B

Accessories

Item no.

Sweat band	10990171
Outer protective glass	77980449
Inner protective glass	31871115
Headstrap for Bestview IV and Bestview V	10990172

Features

- Suitable for TIG welding. Dims out from as little as 9 amps.
- BESTVIEW IV is suitable both for welding and grinding.
- New, improved turnover-headstrap adjusts the helmet's centre of gravity to suit the wearer.
- 2 3V lithium batteries.

Automatic Welding Helmets

Bestview IV Black

The BESTVIEW IV Black has the same features as the carbon-series, the only difference is the non-carbon shell and therefore the lower price.

Bestview IV Black

Bestview IV polyamide
Item no.: 31877111black



Suitable for grinding and TIG welding!

1. Adjustable lightening delay and switching from welding to grinding.
2. Variable dimout manually adjustable.
3. Adjustment of photo-sensitivity.



Model	Bestview IV Black
Field of view	98 x 43 mm
Filter measurements	110 x 90 x 9 mm
UV/IR protection	constant up to dimout no. DIN16
Light state	DIN 4
Variable dimout	from DIN 9 to DIN 13
Power on/off	fully automatic
Switching time light-dark	0,03 – 0,8 ms
Switching time dark-light	0,25 s ~ 0,8 s
Operation	welding/grinding
Operation temperature	-5 °C to +55 °C
Storage temperature	-20 °C to +70 °C
Material	polyamide
Total weight	530 g
Approval number	4/9-13 JAVAC 1/2/1/1 /379 CE

Note

In need of a new torch?

Torches and accessories starting on page 38 in this catalogue.



Profi-Line MIG/MAG

MIG 160 IGBT

The professional solution for repair and handcrafts

Extreme light and very powerful MIG/MAG welder with the newest inverter technology as well as synergy function. Additional the inverter has a wire support 5 kg coil.

Features

- lightweight
- suitable for MMA
- 2-cycle/4-cycle adjustable
- Digital display
- exchangeable to filling wire
- steplessly variable
- IGBT technology
- Synergy function

Scope of delivery:

- 1 MIG Torch UF 15/3 m
- 1 Earth cable 2,5 m
- 1 Electrode cable 2,5

Optional:

- Trolley



Model	MIG 160 IGBT
Supply Voltage	230 Volt±15%
Power Factor	0,75
Nominal power	7 KVA
Welding current range	20 – 160 A
Rated output voltage	22V
Efficiency	85%
Duty cycle	40%
Insulation class	IP 21 S
Protection class	F
Wire diameter	0,6 - 1,0mm
Measurements (LxW xH)	480 x 310 x 430 mm
Weight	17 kg
Item no.	02.01.20.02010



Optional with Trolley to transport



Incl. place for gas bottle up to 50 l

Profi-Line MIG/MAG

MIG 200 IGBT

Also suitable for electrodes

Extreme light and very powerful MIG/MAG welder with the newest inverter technology as well as synergy function. Additional the inverter has a wire support 5 kg coil and MMA and Lift TIG

Features

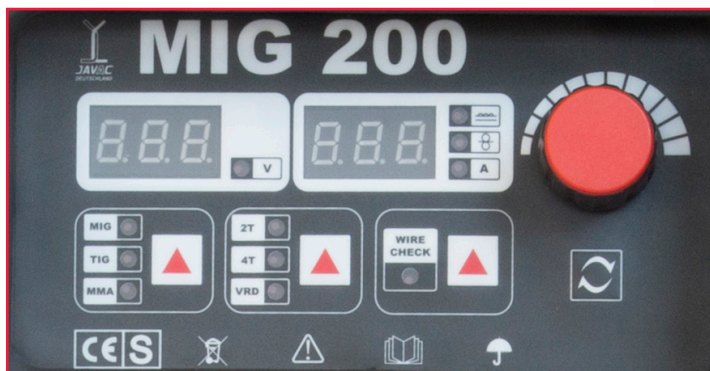
- lightweight
- suitable for MMA
- 2-cycle/4-cycle adjustable
- Digital Display
- exchangeable to filling wire
- steplessly variable
- IGBT-Technology
- Synergy-Function
- 5 kg wire coil
- With MMA and Lift TIG

Scope of delivery:

- 1 MIG Torch UF 15/3 m
- 1 Earth cable 2,5 m
- 1 Electrode cable 2,5

Optional:

Trolley



Optional with Trolley to transport

Incl. place for gas bottle up to 50 l

Model	MIG 200 IGBT
Supply Voltage	230 Volt±15%
Power Factor	0,75
Nominal power	8 KVA
Welding current range	20 – 200 A
Rated output voltage	24V
Efficiency	85%
Duty cycle	30%
Insulation class	IP 21 S
Protection class	F
Wire diameter	0,6 - 1,0mm
Measurements (L x W x H)	480 x 310 x 430 mm
Weight	17 kg
Item no.	02.01.20.02020

Profi-Line MIG/MAG

MIG 250GN₃

Features

- 4-rollers wire feeder.
- Suitable for MMA welding.
- IGBT-technology
- Can be equipped with 10 – 50 liter gas bottle.
- MIG/MMA/LIFT TIG-Modus.
- MMA-Modus with VRD control.
- 2-cycle/4-cycle
- With conversion of the output polarity
- In MMA mode, TIG welding can also be performed with a suitable torch.
- With perfect overcurrent, overheating, under voltage protection.
- Current and voltage figure with separate digital display
- 3 knob design (Waterproof, anti dust, anti corrosion).
- The high rate of sustained load can be used for industrial users.



MMA
Welding &
cored wire

Model	MIG 250GN ₃		
Power Supply Voltage	3P~400V±15%, 50/60Hz		
Power Factor	0,93		
Nominal power	MIG	MMA	WIG
	7,8 KW	8,8 KW	5,9 KW
Nominal input current	12 A	13,7 A	9,1 A
Output current adjustment	MIG	MMA	WIG
	50~250A	25~250A	15~250A
Output voltage	16,5~26,5	21~30	10,6~20
Efficiency	≥85 %		
Duty Cycle 60 %	60%250A 100%		
No-load voltage	58 V		
Protection Class	IP21		
Wire Diameter mm	0,8/1,0		
Measurements (LxWxH) mm	900×520×765		
Weight	47 kg		
Item no.	02.01.21.01041		

Welding in the professional league

The new MIG 250GN₃ replaces our Star Max devices. The 4-roller wire feeder ensures reliable wire feeding. Universal outdoor welding work can be carried out with cored wire as well as with an electric hand.



Scope of delivery:

1 MIG Torch UF25/4
1 Earth cable (3 m)

Profi-Line MIG/MAG

MIG 315GN₃

Features

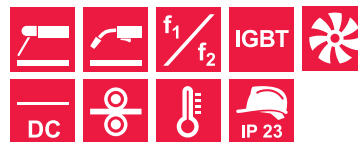
- 4-rollers wire feeder.
- Suitable for MMA welding.
- IGBT-technology
- Can be equipped with 10 – 50 liter gas bottle.
- MIG/MMA/LIFT TIG-Modus.
- MMA-Modus with VRD control.
- 2-cycle/4-cycle
- With conversion of the output polarity
- In MMA mode, TIG welding can also be performed with a suitable torch.
- With perfect overcurrent, overheating, under voltage protection.
- Current and voltage figure with separate digital display
- 3 knob design (Waterproof, anti dust, anti corrosion).
- The high rate of sustained load can be used for industrial users.



Model	MIG 315GN ₃		
Power Supply Voltage	3P~400V±15%, 50/60Hz		
Power Factor	0,93		
Nominal power	MIG	MMA	WIG
	7,8 KW	8,8 KW	5,9 KW
Nominal input current	17 A	18,8 A	13 A
Output current adjustment	MIG	MMA	WIG
	50-315A	25-315A	15-315A
Output voltage	16,5-30	21 ~ 32,6	10,6 -22,6
Efficiency	≥85 %		
Duty Cycle 60%	60%315A 100%		
No-load voltage	58 V		
Protection Class	IP21		
Wire Diameter mm	0,8/1,0/1,2		
Measurements (LxWxH) mm	940×450×810		
Weight	48 kg		
Item no.	02.01.21.01051		

Welding in the professional league

The new MIG 315GN₃ replaces our Star Max devices. The 4-roller wire feeder ensures reliable wire feeding. Universal outdoor welding work can be carried out with cored wire as well as with an electric hand.



Scope of delivery:

- 1 MIG Torch UF36/4
- 1 Earth cable (3 m)

Profi-Line MIG/MAG

DigiStar MIG/MAG Inverter 350/500

perfect for welding stainless steel and cored wire

MMA &
Spot welding

Welding in the professional league

The new DigiStar MIG inverter, water cooled. Full digitally controlled, for welding stainless steel, MMA, TIG HF ignition and spot welding. The DigiStar has a Synergy Program Fe, CrNi, FC Fe and FC CrNi.

Features

- 2-cycle/4-cycle
- With digital voltmeter and amperemeter.
- IGBT technology.
- Infinitely adjustable.
- Wire support 15 kg coil.
- Equipped with Euro central connection.
- Strong metal casing with space for gas bottle on extended base.
- Incl. rubber mat, also on bottle platform.
- Can be equipped with 10 – 50 litre gas bottle.



Scope of delivery:

- 1 MIG Torch
- UF 400/4 m (DigiStar 350)
- UF 500/5 m (DigiStar 500)
- 1 Earth Cable (5 m)
- 1 intermediate hose pack (5 m)

Profi-Line MIG/MAG

Star Max MIG/MAG Inverter 250/315

Model	DigiStar 350	DigiStar 500
Supply voltage	380 Volt	380 Volt
Power Factor	0,87	0,87
Nominal power	14,4 KVA	25 KVA
Welding current range	20 – 350 A	20 – 500 A
Efficiency	89 %	90 %
Duty cycle 60%	350 A	500 A
No-load voltage	70 V	
Insulation class	F	
Wire diameter	0,8 – 1,6 mm	
Gas flow	15 – 20 L/min	
4-rollers wire feeder	yes	
Measurements (LxW xH) mm	910x460x880	910x460x880
Item no.	02.01.22.00010	02.01.22.00100



easy operating elements



Wire holder for coils up to 15 kg



level indicator

The DigiStar is characterized by ...

... a robust steel casing in a timeless, straight industrial design and clearly arranged control elements thus simplifying the adjustment of the welding parameters. You can even weld outdoor with cored wire.

Profi-Line E-Welding Inverters

ATLAS 160 DIY, ATLAS 171 and ATM 2000 G

IGBT technology in use

Due to the IGBT technology the ATLAS 160 DIY, ATLAS 171 and ATM 2000 PFC are small, lightweight and compact but nevertheless very efficient. All three have an excellent welding process: The sharp and dynamic response speed reduces the fluctuation of the arc length, allowing precise and continuous adjustment of the current. Functions such as Arc Force, Hot Start and Anti Stick are regulated automatically. In addition, the ATM 2000 G can weld electrodes as well as TIG with Lift-Arc.

Features

- PFC-technology (only at ATM 2000 G PFC, Power Factor more than 0,7).
- Low input voltage .
- Input current range from 95 V AC – 270 V AC.
- TIG with Lift-Arc-ignition.
- Anti-Stick, Arc-Force, Hot-Start, VRD.
- Arc-Force at MMA mode.
- Protection against overheating, overcurrent, low voltage, overvoltage
- Very small casing; easy to handle.
- Suitable for generators.

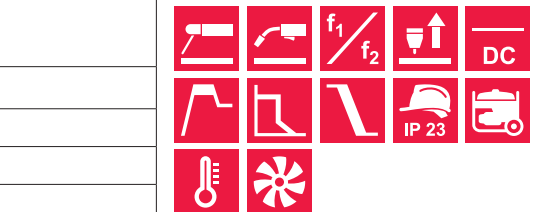


ATLAS 171 in Case



ATLAS 160 DIY in Case

Model	ATLAS DIY 160	ATLAS 171	ATM 2000 G PFC
Supply voltage	230 V \pm 15% 50/60Hz	1 ~ 230V \pm 10%, 50/60 Hz	1 - 230V \pm 10%, 50/60 Hz
Supply voltage range			95 – 270V, \pm 10%, 50/60 Hz
Nominal current	5,8 KVA	7,1 KW	8,1 KW
Rated input current	26 A	32,5 A	21A
Duty cycle (40° C 10 min)	60% 140 A 100% 100 A	60%	25% 200 A 60% 130 A 100% 100 A
No-load voltage	15 V	75 V	66 V
Welding current range		10 ~ 160 A	10 ~ 200 A
Power Factor		\geq 70 %	\geq 75 %
Insulation class	F	F	H
Protection class	IP 23	IP 23 S	IP 23 S
Measurem. (L x W x H)	230x100x150 mm	320x120x220 mm	400 x 140 x 240 mm
Weight	2,8	6,6 kg	4,8 kg
Cooling		AF	AF
Electrode diameter			2,5; 3,2; 4,0
Item no.	02.01.01.00080	02.01.01.00120	02.01.02.00200



Scope of delivery:

1 Earth Cable, 5 m
1 Electrode cable, 5 m
(ATM without PVC case)

Scope of delivery Atlas 160:

1 PVC case
1 Earth Cable, 3,5 m
1 Electrode cable, 3,5 m

Optional:

Adapter 32 A (230 V -> 400 V)

Accessories

Item no.

Adapter (230 V -> 400 V) 32A	70073.677078
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Profi-Line E-Welding Inverters

Liliput 280, 400 and 600

Suitable for generators with overvoltage and undervoltage protection



Features

- IGBT technology.
- Very small casing; easy to handle.
- Low power demand; low consumption.
- 100 m welding cable possible without any problems.
- Equipped with LED display.
- Ultralight weight.
- Suitable for generators.
- Can be used for all basic and rutile coated electrodes.
- Self protection programs:
 - phase defects
 - overvoltage / undervoltage
 - overheating.
- Equipped with selection button for welding current, Arc Force and Hot Start.

280 A, 10 kg

400 A, 13 kg

600 A, 23 kg

Very small but powerful

This ultralight and very small welder with high output power is a favourite for the heavy industry. Having the latest IGBT (nanotechnology) generation of semi-conductors on board means this MMA welder can work with welding cables of up to 100 m without any losing of power!

Model	Liliput 280	Liliput 400	Liliput 600
Supply voltage	3x 400 Volt 50 Hz (other voltages on demand)		
Nominal current	17,5 A	16 A	31,6 A
input voltage	290 – 480 V		
duty cycle 60 % 100 %	– 280 A	400 A 310 A	600 A 480 A
Welding current range	20 – 280 A	10 – 400 A	16 – 630 A
no-load voltage	61 V	57 V	63 V
Efficiency	90 %		
Welding electrode	2 – 5 mm	2 – 5 mm	2 – 6 mm
Protection class	IP 23		
Insulation class	F		
Size (LxWxH) mm	335 x 186 x 330	335 x 186 x 330	490 x 220 x 375
Weight	9,3 kg	11,7 kg	16,5 kg
Item no.	64125801	64125800	64125810

Accessories

Item no.

Welding cable, earth terminal and plug 5 m, 35 mm ²	34641635
Welding cable, earth terminal and plug 5 m, 50 mm ²	34641645
Welding cable, earth terminal and plug 5 m, 70 mm ²	34641655
Remote control for Liliput with 5 m cable	64125811



Scope of delivery:

1 power supply cable

Optional:

1 remote control, 5 m cable



Profi-Line TIG DC

AST 181 and 201

With the AST, stainless steel can be welded easily and at a professional level. With the convenient single knob operation, all necessary welding parameters can be set and saved. The necessary parameters can be set very easily to the user-oriented operation via LED display.

Features

- DC pulse TIG/electrodes.
- IGBT and PWM technology, AST 201 with PFC.
- Digital control.
- Digital display.
- HF / Lift-Arc (TIG).
- Downslope; upslope; gas pre- and postflow; adjustable pulse frequency.
- Intelligent protection against overvoltage, under-voltage, overcurrent and overheating.



Model	AST 181		AST 201	
Supply voltage	230/400V*, 1-phase ± 10 %, 50/60Hz			
	TIG	MMA	TIG	MMA
Nominal current	20,9 A	33,2 A	26 A	40,6 A
Power	3,7 Kw	5,8 Kw	4,6 Kw	7,2 Kw
Duty cycle (40°C 10 min)	100 % 140 A 50 % 180 A		100 % 100 A 25 % 200 A	
No-load voltage	63 V		63 V	
Welding current range	5 ~ 180 A		5 ~ 200 A	
Efficiency	> 85 %		> 85 %	
Protection class	IP 23S		IP 23	
Insulation class	F		F	
Measurem. (LxWxH) mm	360 x 130 x 240		360 x 130 x 240	
Weight	7,5 kg		7,5 kg	
Item no.	02.01.10.00100		07101006	



Scope of delivery:

- 1 Earth cable, 5 m
- 1 TIG torch SR17/8
- 1 Set of wearing parts

Accessories

Item no.

Adapter (230V -> 400V) 32A	70073.677078
Welding cable with electrode holder 25mm², 5m	34641820

Profi-Line TIG AC/DC

Astor 200-DP AC/DC-TIG Inverter

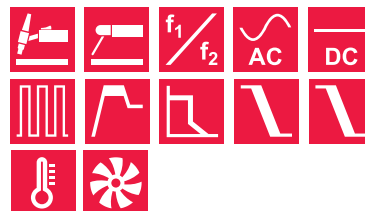
Due to the "PWM" technology the voltage and counter voltage can be reduced without affecting the welding performance.

Features

- light construction
- HF- und Lift Arc ignition
- Excellent welding
- Arc Force
- PFC-Technology
- 2-cycle/4-cycle adjustable
- suitable for direct- and alternating current
- Puls and Mix-Puls-Function
- Program memory
- Gas pre-/ postflow time
- Downslope Function



Model	Astor 200-DP	
Supply voltage	230 V, 50/60Hz, ±15%	
	TIG	MMA
Nominal current	28A	38,1 A
Welding current min.	20A	5A
Power	5,2 KW	6,4 KW
Duty cycle (40°C 10 min)	60% 200A	40% 160A
No-load voltage	56 V	
Rated output current	200 A	180 A
Protection class	IP 21 S	
Insulation class	F	
Efficiency	80%	
Power Factor	0,73	
Measurem. (LxWxH) mm	475x200x410	
Weight	14,2 kg	
Item no.	02.01.11.00130	



Scope of delivery:

- 1 TIG Torch SR 26/8 m
- 1 Earth cable, 3 m
- 1 Electrode cable, 3 m

Profi-Line WIG AC/DC

Astor 320 and 400 AC/DC - TIG Inverter

Powerful AC/DC inverter for professional work

Features

- TIG AC/DC Puls
- AF Cooling
- Exzellente Schweißigenschaften
- Downslope; Upslope; Gas pre- and post flows Pulse frequency adjustable
- Digital display
- 2-cycle/4-cycle adjustable
- Power Factor 0,7
- PWM and IGBT technology
- Incl. water cooler and trolley

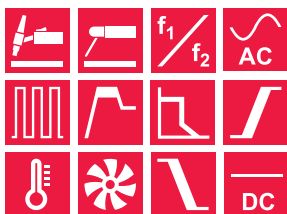


AC/DC
TIG Inverter
incl.
watercooler
and trolley



Scope of delivery:

1 TIG Welding torch
SR 18/4 m
1 Earth cable, 4 m



Model	Astor 320		Astor 400	
Supply Voltage	3-380±10%, 50/60Hz			
Nominal current	21 A (WIG)	27,5 A (MMA)	26,5 A (WIG)	36,5 (MMA)
Power	9,5 A (WIG)	13 A (MMA)	13 A (TIG)	17,4 (MMA)
Power Factor	0,65		0,70	
No-load voltage	61V		67V	
Adjustment rage of start current	10-welding current		10-welding current	
Adjustment rage of welding current	10-320 A		10-400A	
Adjustment rage of downslope time	0-10		0-10	
Pre-gas time	0-2 S		0-2S	
Adjustment rage of downslope time	0-10 S		0-10 S	
Clearance effect (AC WIG)	5-95		5-95	
Efficiency	≥85%		≥85%	
Duty cycle (40° C, 10 min.)	60% 320A		60% 400A	60% 320A
	100% 250A		100% 310A	100% 250A
Protection class	IP23		IP23	
Cooling	AF		AF	
Measurement (LxWxH)	530x240x445 mm		530x240x445 mm	
Weight	30,5 kg		32 kg	
Item no.	02.01.11.01060		02.01.11.3010	

Universal Water Cooler

DX-Series

Suitable for all welding devices



Features DX-5

- Suitable for all welding devices due to universal connection.
- Large platform with anti-slide mat for welding devices.
- Platform for gas bottles 20 – 50l with safety chain.
- Large smooth-running wheels for excellent maneuverability.

Features DX-3

- Suitable for all welding devices due to universal connection.



Model	DX-3	DX-5
Supply voltage	230 Volt, 50/60 Hz	230 Volt, 50/60 Hz
Cooling duty		2,9 KW (L/min)*
Motor Qty.	1 fan motor + 1 pump motor	
Motor capacity	270 Watt	370 Watt
Conveyor capability	10 l/min	8,5 l/min
Max. pressure	–	0,3 mpa / 60 Hz
Water supply tank	7 l	26 l
Measurements (LxWxH) mm	450 x 250 x 340	655 x 385 x 650
Weight (without liquid)	16 kg	32 kg
Item no.230 V	63330915	63330925

* The 2,9 KW cooling capacity can be achieved at:
- An ambient temperature under 25°C

Cold Wire Feeder

TW-4 RAC2

With servodrive and 4 wire feed rollers

Features

- Steady wire feeding thanks to 4 wire feed rollers.
- All types of welding wire (0,8 – 1,6 mm).
- Control panel easy to operate via short-travel key.
- Suitable for TIG and plasma TIG welding.
- Interface for torch included.
- 2 automatic programmes: for wire feeding and end crater (wire retracting movement, wire does not stick to workpiece).



Model	TW-4RAC2
Supply voltage	230 Volt, 50 Hz
Wire speed	180 – 1800 mm/min
Wire diameter	0,8 – 1,6 mm
Delayed welding time	0,0 – 9,9 Sek.
Pause time welding time	0,0 – 9,9 Sek.
Pause time stop welding time	0,0 – 9,9 Sek.
End crater welding time	0,0 – 9,9 Sek. Pause
Welding start signal	2-Takt / 4-Takt
Manual	Feeding/haul in
Motor brake	magnetic
HF protection	100%
Connecting length	1,5 meter
Item no.	71801117

Scope of delivery

- 1 Wire feeder
- 1 Wire spiral AP 20, 2 m
- 1 Foot switch
- 1 Manually operated remote control



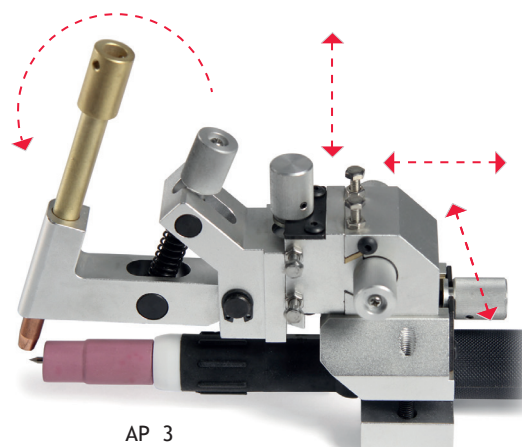
AP 20

Optional accessories

Item no.

AP 3 Clamp mounting mach. torch	7180117230
AP 20L Wire spiral	7180117240

Perfect holder for cold wire feeding.
All 4 axes can be adjusted differently.



AP 3

Profi-Line Plasma

Plasma Cutting Unit AVALON 40

Cutting C-steel, stainless steel, aluminium, copper and more

AVALON 40 is a lightweight handy plasma cutting unit with high cutting performance and an excellent cutting quality. Their low weight makes them ideal devices for trade, shop and industry.

Features

- Latest IGBT technology.
- Compact, lightweight, portable.
- High input voltage range.
- Continuous current control.
- Stabilization of power fluctuations.
- Intelligent protective functions with warning signal:
 - overvoltage
 - undervoltage
 - overcurrent
 - overcharge.



Scope of delivery:

- 1 Earth cable 5 m
- 1 Cutting torch PT-60/6 m

Optional:

Trolley

Note

PRO 2
Modular Positioner Systems
Page: 88



Model	AVALON 40
Supply voltage	230 V, 50/60 Hz
Input voltage	-
Power	4,8 KVA
Rated input current	18 A
No-load voltage	420 V ± 10%
Cutting current range	25 ~ 40 A
Duty cycle, 40° C 10 min.	50 %
Max. cutting thickn.	12 ~ 15 mm
Protection class	IP 23S
Insulation class	F
Ignition	contact ignition
Cooling	Air
Measurment (LxWxH) mm	435 x 180 x 265
Weight	11 kg
Item no.	02.02.10.00040

Profi-Line Plasma

Plasma Cutting Unit AVALON 60 CNC

Cutting C-steel, stainless steel, aluminium, copper and more

AVALON 60 is a lightweight handy plasma cutting unit with high cutting performance and an excellent cutting quality. Their low weight makes them ideal devices for trade, shop and industry.

For the use as CNC-Plasma Cutting the Avlon 60 is provided with a specific point of intersection.

Features

- Latest IGBT technology.
- Compact, lightweight, portable.
- High input voltage range.
- Contact ignition with pilot ARC control.
- Continuous current control.
- With air pressure manometer.
- Stabilization of power fluctuations.
- Intelligent protective functions with warning signal: overvoltage, undervoltage, overcurrent, overcharge.



Scope of delivery:

1 Earth cable 5 m

Optional for CNC mode:

Machine torch
PTM-60 with coaxial cable /6 m,
Hand torch
PT-60 /6 m

Model		AVALON 60 CNC
Supply voltage		400 V, 50/60 Hz, 3-phase
Power		5,6 KVA
Rated input current		14,9 A
No load voltage		305 V
Cutting current range		25 – 60 A
Duty cycle 40° C 10 min.		60% 60A 100% 46A
Max. cutting thickness	Steel	≈ 30 mm
	Stainless steel	≈ 25 mm
	Aluminium	≈ 15 mm
	Copper	≈ 10 mm
Protection class		IP21S
Insulation class		F
Ignition		HF
Cooling		Air
Size (LxWxH) mm		510 x 250 x 420
Item no. Avalon CUT 60 CNC		02.02.10.00062

Profi-Line Plasma

Plasma Cutting Unit AVALON 120 CNC

Neat and reliable cutting

The AVALON 120 is your reliable partner for demanding tasks. Separating cuts up to a material thickness of 60 mm can be effected with AVALON 120.

Features

- Latest IGBT technology.
- Cuts all metals and nonferrous metals neatly and seamlessly.
- Infinitely variable input switch.
- Pilot arc
- Cheap spare parts
- Central connection

Scope of delivery:

1 Earth cable 5 m
1 Cutting torch PT-100/6 m



Optional:

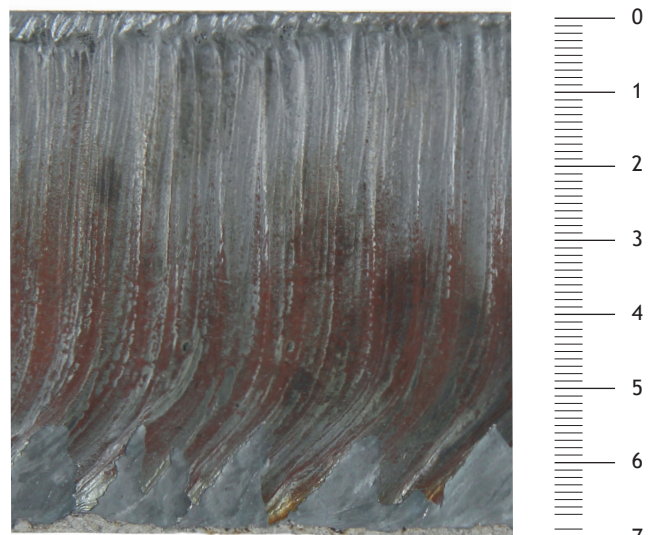
Torch PT-100 with coaxial cable /6 m,
Machine torch PTM-100 with coaxial cable /6 m,
Machine torch PTM-100 with coaxial cable /12 m,



Model	AVALON 120 CNC
Supply voltage	400 V, 50/60 Hz, 3-phase
Max. separating cut	60 mm
Quality cut	45 mm
Power	18 KVA
Ampere	15 – 120 A
Air pressure	5,0 – 8,0 Bar
Max. air requirement	250 l/min
Ignition	HF
Fuse	30 A tr
Duty cycle 60 %	100 A
No-load voltage	160 Volt
Control	IGBT
Protection class	IP 21
Standard	EN 50192
Insulation class	F
Cooling	Air
Meas. (LxWxH with castors) mm	600 x 370 x 650
Weight	55 kg
Item no.	73330754

* The values do not apply to the CNC flame cutting machines.

The AVALON 120 cuts up qualitatively to a material thickness of 45 mm. Separating cuts are possible to a material thickness of 70 mm. This here imaged section part at a ration of 1:1 was be cutting with a Javac PT 100 torch manually.



Profi-Line Plasma

Plasma Cutting Unit Thermal Dynamics®

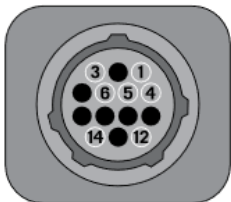
Cuts mild steel, stainless steel, aluminium

The A-60i from Thermal Dynamics is a light, handy plasma cutting system with high cutting performance and top cutting quality. Its low weight of only 15.9 kg makes it the ideal candidate for craft, workshop and industry.

For use as a CNC plasma cutting machine. The A-60i can be used in even the most demanding environments with a duty cycle of 80 %.

Features

- Wide digital display for cutting current and state indication
- Mode selection
- Current regulation
- Replacement indicator for wear parts
- Gas pressure indication
- Display Torch type and cable length
- Fast change between auto and hand torch by torch status recognition.
- Workpiece cable with Dinse quick release
- CNC interface connection



CNC interface connector on the rear of the power source

- 3, 4: Plasma-Start/Stop-Signal
- 5, 6: Divided arc voltage
- 10, 11, 13: Platinum contact for ohmic sensing
- 12, 14: OK for feed



Pic. A40i CNC / A60i CNC



Pic. A120

Model	A40i CNC		A60i CNC		A80		A120	
Supply voltage	400 V, 50/60 Hz, 3-phase							
Output Range	10 - 40 A		10 - 60 A		30 - 80 A		30 - 120 A	
Rated input current at max. output power	7,4A		12,3A		28 A		36 A	
No load voltage	300 VDC				260 VDC			
Output	4,8 kW		7,9 kW		12 kW		15,4 kW	
Duty cycle	80% 40A 100% 30A		80% 60A 100% 50A		80% 80A 100% 70A		80% 120A 100% 100A	
Mild steel	≈ 5 mm	1345 mm/min.	≈ 12 mm	795 mm/min.	≈ 15 mm	610 mm/min.	≈ 20 mm	720 mm/min.
Stainless steel	≈ 5 mm	715 mm/min.	≈ 12 mm	580 mm/min.	≈ 12 mm	765 mm/min.	≈ 15 mm	1160 mm/min.
Aluminium	≈ 5 mm	1440 mm/min.	≈ 12 mm	845 mm/min.	≈ 15 mm	745 mm/min.	≈ 15 mm	610 mm/min.
Protection class	IP23C							
Insulation class	F							
Cooling	Air							
Meas. (LxWxH)mm	359 x 199 x 536				343 x 248 x 660			
Weight	15,9 kg				28,6 kg			

Profi-Line Plasma

Plasma Cutting Unit Thermal Dynamics®

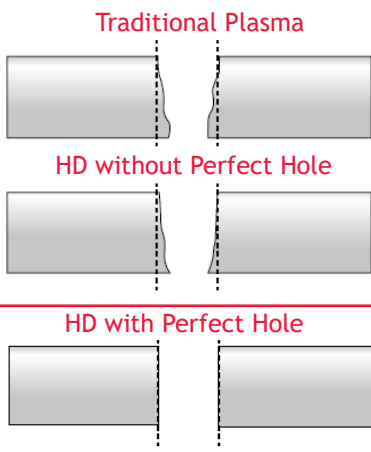
New generation of precision plasma cutting

The Ultra-Cut 200 XT and 300 XT systems offer superior cutting performance in mild steel and non-ferrous metals. The power sources are designed for reliable and cost-effective operation.

Thermal Dynamics enables you to cut perfect holes with Perfect Hole software, where know-how meets technological capabilities.

Features

- Flexibility in cutting through thick and thin all types of metal
- Fast air/air cutting
- Reliable and comfortable operation with maximum productivity
- XT 301 Torch Technology
- Extensive gas control
- Eliminates secondary process and increases productivity
- Perfect holes with Perfect Hole
- Easy handling and programming



Perfect Hole automatically adjusts the following parameters depending on material type, thickness and hole size.

Model	200 XT	300 XT
Supply voltage	400 V, 50/60 Hz, 3-phase	
Output Range	200 A	300 A
Rated input current at max. output power	7,4A	12,3A
No load voltage	425 VDC	
Output	40 kW	60 kW
Duty cycle	100%	100%
Meas. (LxWxH) mm	914x701x1213	1031,2x698,5x1397
Weight	222 kg	277 kg
Item no.		

Incl. Software:
- Perfect Hole Software

Plasma Cutting Torches

PT-60 Plasma Cutting Torches

Suitable for AVALON 40 and 60

Model	PT-60 with coaxial cable
Plasma cutting torch	hand torch, 6 m hose with rubber cover
Current range	10 – 60 A
Duty cycle 80%	60 A
Gas	Air/N ₂
Gas pressure	4,4 – 5,0 bar
Gas flow	150 lpm
Ignition	without HF*
Item no.	19460002

*Patented ignition system without contact of the workpiece.

Accessories	Item no.
Circle cutting attachment	19460180
Cutting guide	19460182

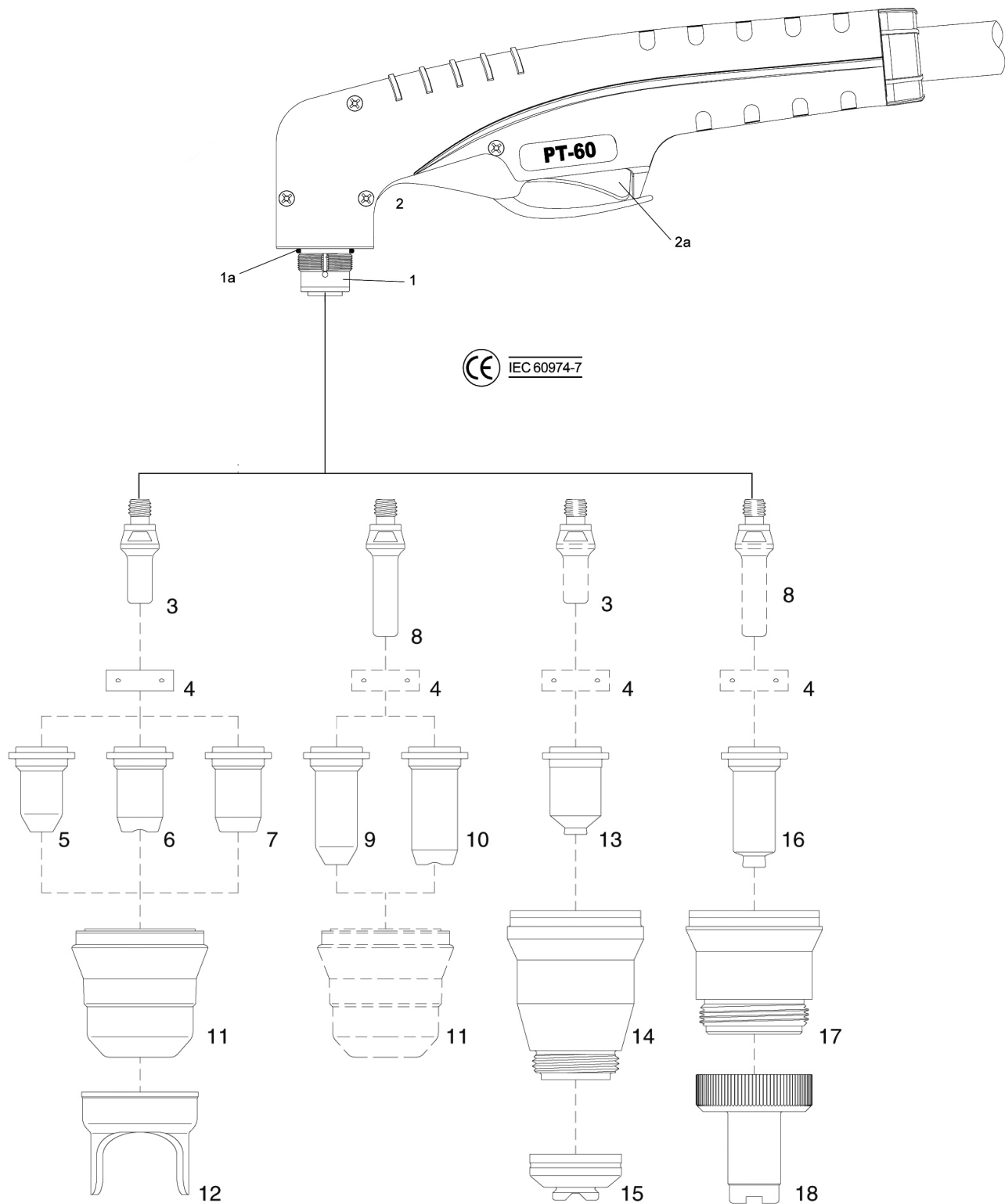
Cutting torch components PT-60

	Item no.
1 Hand torch head 70°	19460100
1a O-ring	19460104
2 Handle with switch	19460020
2a Switch	19460066
3 Plasma electrode, back striking	19460116
4 Diffuser	19460120
5 Plasma nozzle, contact cutting, DM 0,65 (10–20A), Back Striking	19460124
5 Plasma nozzle, contact cutting, DM 0,8 (20–30A), Back Striking	19460128
6 Plasma nozzle, contact cutting, DM 0,9 (30–40A), Back Striking	19460132
7 flat Plasma nozzle, DM 1,0 (40–50A), Back Striking	19460136
7 flat Plasma nozzle, DM 1,1 (50–60A), Back Striking	19460140
8 long Plasma electrode, back striking	19460144
9 long Plasma nozzle, contact cutting, DM 0,65 (10–20A), Back Striking	19460148
9 long Plasma nozzle, contact cutting, DM 0,8 (20–30A), Back Striking	19460152
10 long , Plasma nozzle contact cutting, DM 0,9 (30–40A), Back Striking	19460156
11 Protective cap, 6 drillings, grey	19460160
11 Protective cap, 6 drillings	19460163
11 Protective cap, 6 drillings, max. lifetime	19460164
12 Spacer with 2 tips	19460168
13 Contact nozzle, DM 0,9 (30–40A), Back Striking	19460133
Contact nozzle, DM 1,0 (40–50A), Back Striking	19460137
Contact nozzle DM 1,1 (50–60A), Back Striking	19460144
14 Protective cap head for contact cutting	19460165
15 Protective cap head for contact cutting.	19460166
16 Long protective nozzle DM 0,9 (40A) Back Striking	19460154
Long protective nozzle DM 1,0 (50A) Back Striking	19460158
Long protective nozzle 1,1 (60A) Back Striking	19460159
17 Protective cap	19460161
18 Long prot. cap head (40 - 60A)	19460162
Key for electrodes	19461156

Plasma Cutting Torches

PT-60 Plasma Cutting Torches

Suitable for AVALON 40 and 60



Plasma Cutting Torches

PTM-60 Plasma Cutting Torches

Suitable for AVALON 40 and 60

Model	PTM-60 with coaxial cable
Plasma cutting torch	torch 70°, 6 m hose with rubber cover
Current range	10 – 60 A
Duty cycle 80%	60 A
Gas	Air/N ₂
Gas pressure	4,4 – 5,0 bar
Gasflow	150 lpm
Ignition	without HF*
Item no.	19460004

*Patented ignition system without contact of the workpiece.

Accessories	Item no.
Circle cutting attachment	19460180
Cutting guide	19460182

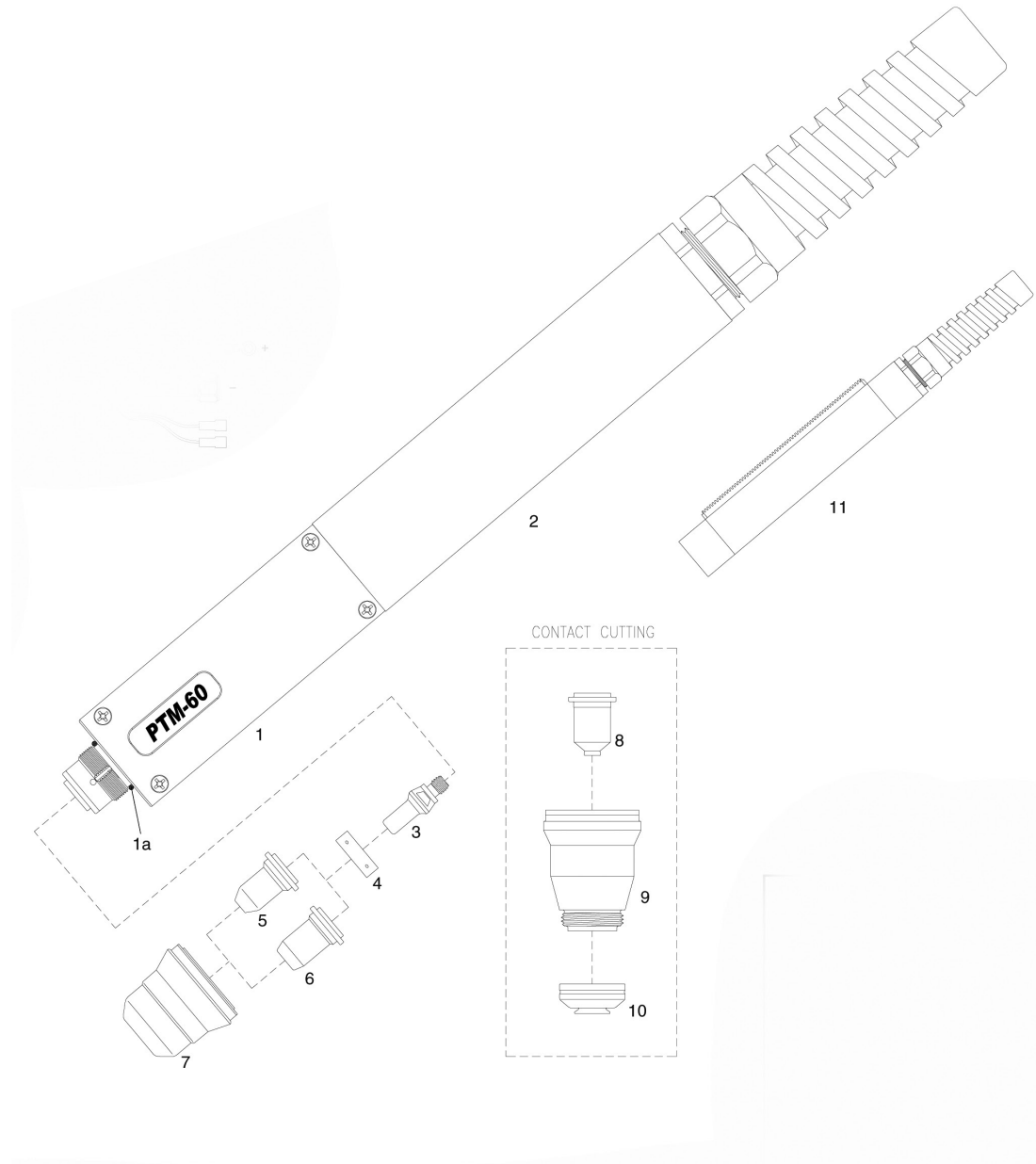
Cutting torch components PTM-60

	Item no.
1 Hand torch head	19460100
1a O-Ring	19460104
2 Fibreglas Positions-Pipe	19460110
3 Plasma electrode, back striking	19460116
4 Diffusor	19460120
5 Plasma nozzle, contact cutting, DM 0,65 (10–20A), Back Striking	19460124
5 Plasma nozzle, contact cutting, DM 0,8 (20–30A), Back Striking	19460128
5 Plasma nozzle, contact cutting, DM 0,9 (30–40A), Back Striking	19460132
6 flat Plasma nozzle, DM 1,0 (40–50A), Back Striking	19460136
6 flat Plasma nozzle, DM 1,1 (50–60A), Back Striking	19460140
7 Protective cap, 6 drillings	19460163
7 Protective cap, 6 drillings, max. lifetime	19460164
8 Contact nozzle, DM 0,9 (30–40A), Back Striking	19460133
Contact nozzle, DM 1,0 (40–50A), Back Striking	19460137
Contact nozzle DM 1,1 (50–60A), Back Striking	19460159
9 Protective cap	19460161
10 Protective cap for machine	19460165
11 Fibreglas Positions-Pipe with thread	19460114
Key for electrodes	19460172

Plasma Cutting Torches

PTM-60 Plasma Cutting Torches

Suitable for AVALON 40 and 60



Plasma Cutting Torches

PT-80 Plasma Cutting Torches

Suitable for AVALON 40 and 60

Model	PT-80 with coaxial cable
Plasma cutting torch	hand torch 70°, 6 m hose with rubber cover
Current range	30 – 80 A
Duty cycle 80%	80 A
Gas	Air/N ₂
Gas pressure	4,4 – 5,0 bar
Gasflow	160 lpm
Ignition	Pilot arc
Item no.	19461002

Accessories	Item no.
Circle cutting attachment	19461192
Cutting guide	19461196

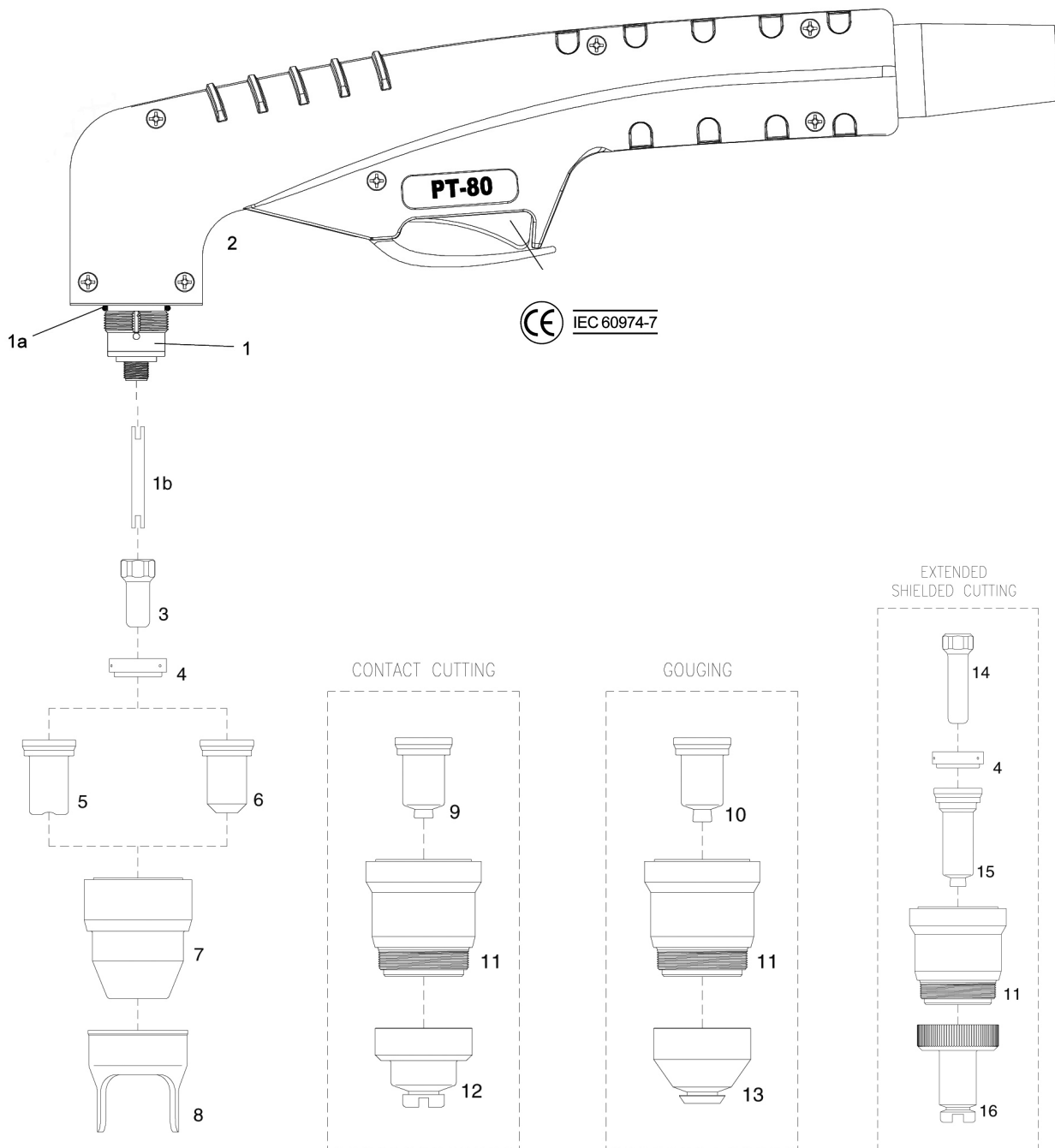
Cutting torch components PT-80

	Item no.
1 Hand torch head 70°	19461100
1a O-ring	19461104
1b Gas distributor	19461108
2 Handle with switch	19461106
2a Switch	19460066
3 Plasma electrode, back striking	19461120
4 Diffuser	19461124
5 Plasma nozzle, contact cutting, DM 0,9 (20–30A), Back Striking	19461128
6 Plasma nozzle, contact cutting, DM 1,0 (40–50A), Back Striking	19461132
6 Plasma nozzle, contact cutting, DM 1,1 (50–60A), Back Striking	19461136
6 Plasma nozzle, contact cutting, DM 1,2 (60–70A), Back Striking	19461140
6 Plasma nozzle, contact cutting, DM 1,3 (70–80A), Back Striking	19461144
7 Protective cap	19461148
8 Spacer with 2 tips	19461152
9 Plasma nozzle, cut, DM 1,0 (40-50A), back striking	19461160
9 Plasma nozzle, cut, DM 1,1 (50-60A), back striking	19461161
9 Plasma nozzle, cut, DM 1,2 (60-70A), back striking	19461162
9 Plasma nozzle, cut, DM 1,3 (70-80A), back striking	19461163
10 Gouging nozzle (80 A)	19461168
11 Protective cap	19461149
12 Protective cap head for contact cutting (40–70A)	19462210
13 Protective cap head for gouging	19462214
14 Long electrode	19461170
15 Long protective nozzle DM 1,0 (40 - 50 A)	19461171
15 Long protective nozzle DM 1,1 (50 - 60 A)	19461172
15 Long protective nozzle DM 1,2 (60 - 70 A)	19461173
15 Long protective nozzle DM 1,3 (70 - 80 A)	19461174
16 Long prot. cap head	19462240
Key for electrodes	19461156

Plasma Cutting Torches

PT-80 Plasma Cutting Torches

Suitable for AVALON 40 and 60



Plasma Cutting Torches

PT-100 Plasma Cutting Torches

with coaxial cable suitable for AVALON 100 and 120

Features

- The special coaxial cable of this torch is extremely robust against slag and heat.

Model	PT-100 with coaxial cable
Plasma cutting torch	hand torch 70°, 6 m hose with rubber cover
Current range	30 - 100 A
Duty cycle 60%	100 A
Gas	air/N ₂
Gas pressure	4,6 - 5,0 bar
Gasflow	200 lpm
Ignition	Pilot arc
Item no.	19462000

Accessories

Item no.

Circle cutting attachment	
Cutting guide	

Cutting torch components PT-100

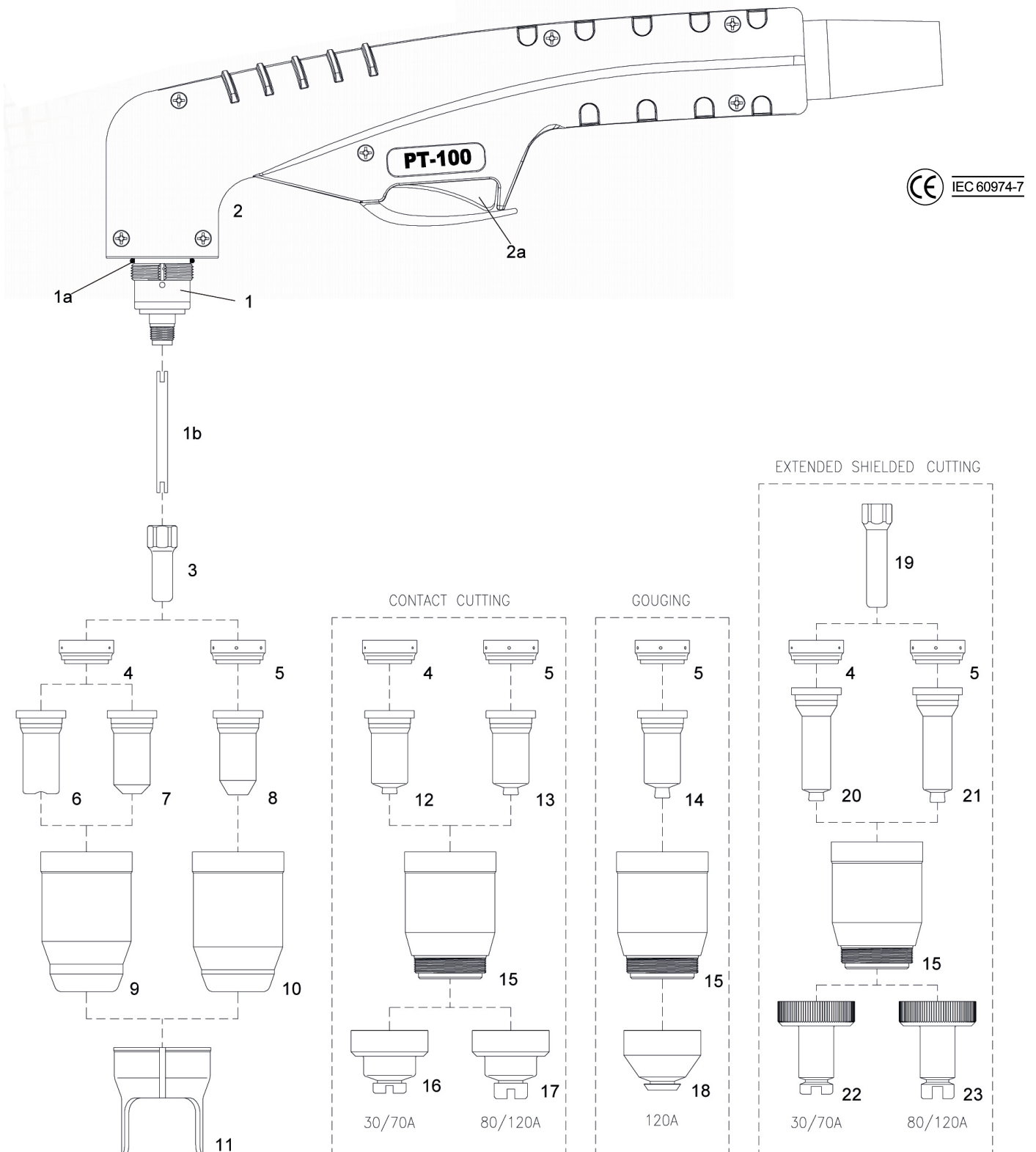
Item no

1 Hand torch head 70°	19462100
1a O-ring	19462104
1b Cooling tube	19462108
2 Handle with switch	19461106
2a Switch	19462112
3 Plasma elektrode, Back Striking	19462120
4 Diffusor 30 - 70 A	19462127
5 Diffusor 80 - 120 A and gouging	19462128
6 Plasma nozzle, contact cut, DM 0,9 (30 - 40A), Back Striking	19462194
7 Plasma nozzle, cut, D 1,0 (40 - 50A), Back Striking	19462151
7 Plasma nozzle, cut,, D 1,1 (50 - 60A), Back Striking	19462152
7 Plasma nozzle, cut,D 1,2 (60 - 70A), Back Striking	19462153
8 Plasma nozzle, cut, D 1,5 (100 - 110A), Back Striking	19462154
8 Plasma nozzle, cut, D 1,6 (110 - 120A), Back Striking	19462155
9 Protective cap, 30 - 70A	19462163
10 Protective cap, 80 - 120A	19462164
11 Spacer with 2 tips (only for 7 and 8)	19462168
Key for electrodes	19462100
12 contact nozzle D 1,0 (40 - 50A), Back Striking	19462195
12 contact nozzle D 1,1 (50 - 60A), Back Striking	19462197
12 contact nozzle D 1,2 (60 - 70A), Back Striking	19462198
13 contact nozzle D 1,4 (80 - 90A), Back Striking	19462199
13 contact nozzle D 1,6 (110 - 120A), Back Striking	19462200
14 Gouging nozzle (100 - 120A), back striking	19462158
15 Protective cap	19462204
16 Protective cap head for contact cutting (40 - 70A)	19462210
17 Protective cap head for contact cutting (80 - 120A)	19462212
18 Protective cap head for gouging	19462214
19 Long electrode	19462122
20 Long protective nozzle D 1,0 (40 - 50A)	19462230
20 Long protective nozzle D 1,1 (50 - 60A)	19462232
20 Long protective nozzle D 1,2 (60 - 70A)	19462233
21 Long protective nozzle D 1,4 (80 - 90A)	19462234
21 Long protective nozzle D 1,5 (100 - 110A)	19462235
22 Long prot. cap head (contact cutting 40 - 70A)	19462240
23 Long prot. cap head (contact cutting 80 - 120A)	19462242

Plasma Cutting Torches

PT-100 Plasma Cutting Torches

with coaxial cable suitable for AVALON 100 and 120



Plasma Cutting Torches

PTM-100 Plasma Cutting Torches

suitable for AVALON 100 and 120

Model	PTM-100 with coaxial cable	Machine torch components PTM-100	Item no.
Plasma cutting torch	Machine torch, 6 m hose with rubber cover	1 Machine torch head	19462100
Current range	30 – 100 A	1a O-Ring	19462104
Duty cycle 60%	100 A	1b Cooling tube	19462108
Gas	Air/N ₂	2 Fibreglas Positions-Pipe	19460110
Gas pressure	4,6 - 5,0 bar	3 Plasma elektrode, Back Striking	19462120
Gasflow	200 lpm	4 Diffusor 30 – 70A	19462127
Ignition	Pilot arc	5 Diffusor 80 – 100A	19462128
Item no, 6 m	19462008	6 Plasma nozzle, cut, DM 1,0 (40-50A), Back Striking	19462151
Item no, 12 m	19462006	6 Plasma nozzle, cut, DM 1,1 (50-60A), Back Striking	19462152
		6 Plasma nozzle, cut, DM 1,2 (60-70A), Back Striking	19462153
		7 Plasma nozzle, cut, DM 1,4 (80-90A), Back Striking	19462154
		7 Plasma nozzle, cut, DM 1,5 (100A), Back Striking	19462155
		8 Protective cap, 30 – 70A	19462163
		9 Protective cap, 80 – 100A	19462164
		Key for electrodes	
		10 contact nozzle D 1,0 (40–50A), Back Striking	19462195
		10 contact nozzle D 1,1 (50–60A), Back Striking	19462197
		10 contact nozzle D 1,2 (60–70A), Back Striking	19462198
		11 contact nozzle D 1,4 (80–90A), Back Striking	19462199
		11 contact nozzle D 1,5 (100–110A), Back Striking	19462200
		12 Protective cap for contact cut	19462204
		13 Protective cap for contact cut	19462203
		14 Fibreglas Positions-Pipe, with thread	19460114
		15 Protective cap	

Note

CNC plasma cutting devices

All sizes, from portable to sturdy.

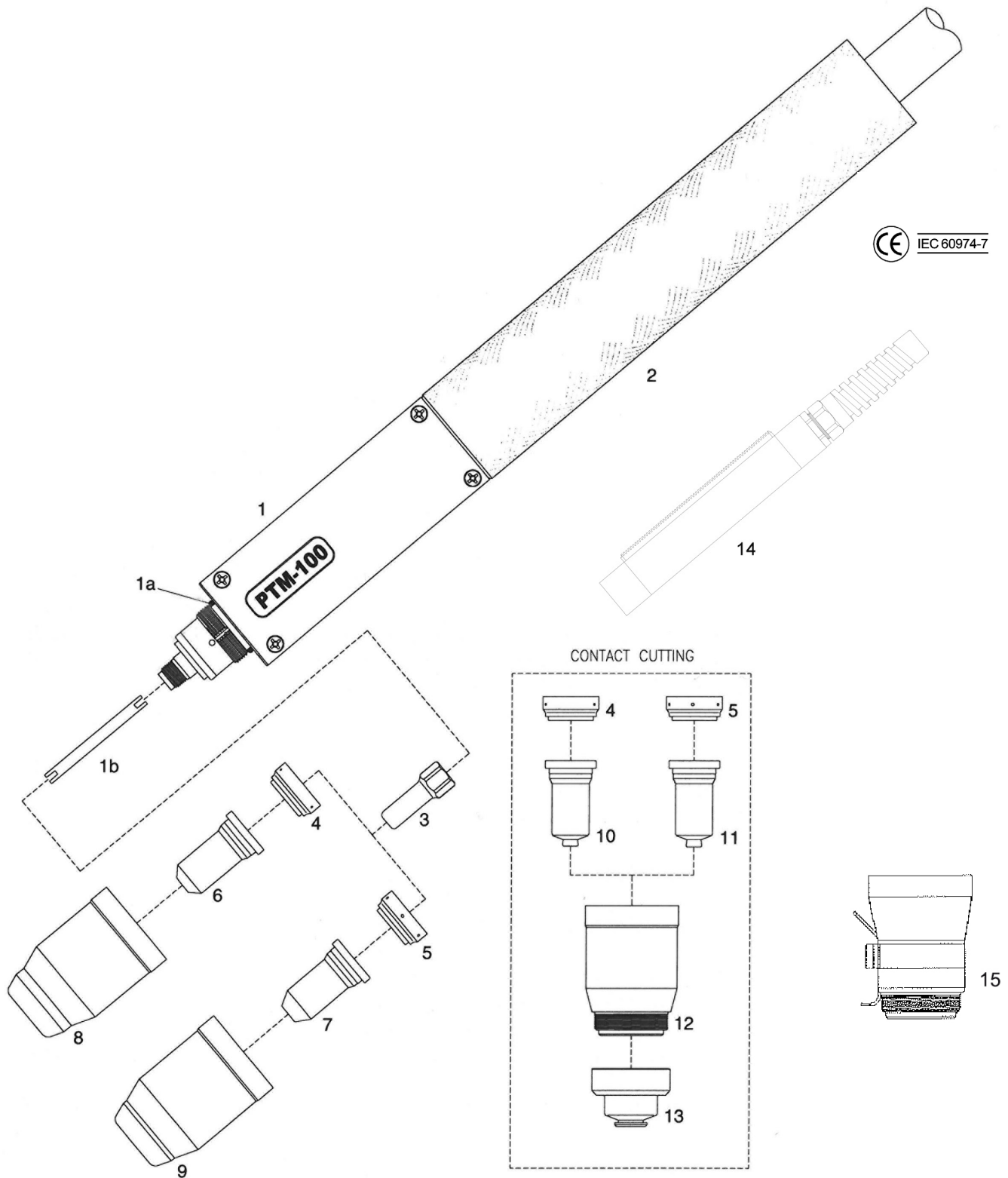
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Plasma Cutting Torches

PTM-100 Plasma Cutting Torches

suitable for AVALON 100 and 120



MIG Welding Torches

Overview

Ergonomic design

The Javac UF MIG torches lie perfectly in the hand due to premium materials. They are extremely flexible and can be easily used without effort. Comfortable handling without slipping off due to the handle which is equipped with rubber inserts. Additional flexibility thanks to the handle's ball joint and an Euro central connection. Owing to the Euro central connection, the UF series can be connected with all common MIG/MAG welding devices. Up to 500A there is a suitable MIG torch for everybody.

Features

- Ergonomically designed grip plate.
- Handle with ball joint and bend protection.
- Euro central connection.
- Euro central connection with ball joint and bend protection.
- Contact pins mounted in spring bearings.
- Robust and flexible protection hose with water-cooled torches.
- Protective caps on water hoses.



Ball joint and bend protection on Euro central connection.



Ball joint and bend protection on handle make your work even more flexible.



Robust, flexible protection hose (only UF MIG 400).



Premium grip plate, ergonomically designed.



Protective caps on water hoses.



Contact pins mounted in spring bearings.

MIG Welding Torches

UF MIG 15 and 24

Model	UF MIG 15/3 and 15/4
Cooling	Gas
Duty cycle 60%	180 A CO ² , 150 A MIX
Wire diameter	0,6 – 1,0 mm
Item no. 3 m	33142535
Item no. 4 m	33142537



Model	UF MIG 24/4
Cooling	Gas
Duty cycle 60%	250 A CO ² , 220 A MIX
Wire diameter	0,8 – 1,2 mm
Item no.	33142538



Wearing parts UF MIG 15

Wearing parts UF MIG 15	Item no.
1 Gas nozzle D 12 kon	33941055
2 Power nozzle 0,8 mm M 6x25	33942615
2 Power nozzle 1,0 mm M 6x25	33942631
3 UF 15 gas nozzle support	33940110
4 UF 15 retaining spring	33940180
5 Spiral blue 3m	33948010

Wearing parts UF MIG 24

Wearing parts UF MIG 24	Item no.
6 Gas nozzle D 12,5 kon	33940225
7 Power nozzle 0,8 mm M 6x28	33942625
7 Power nozzle 1,0 mm M 6x28	33942630
8 UF 24 nozzle holder	33940120
9 UF 24 gas distributor ceramics	33945010
10 Spiral red 4 m	33948020
11 Teflon red 1,0 – 1,2mm, 4 m	33948110

Note

Item.:02.01.21.01041
page: 12



MIG Welding Torches

UF MIG 25 and 36

Model	UF MIG 25/4
Cooling	Gas
Duty cycle 60%	230 A CO ² , 200 A MIX
Wire diameter	0,8 – 1,2 mm
Item no.	33142547

Model	UF MIG 36/4
Cooling	Gas
Duty cycle 60%	340 A CO ² , 300 A MIX
Wire diameter	0,8 – 1,6 mm
Item no.	33142557



Wearing parts UF MIG 25

Item no.

1 Gas nozzle D 15 kon	33940230
2 Power nozzle 0,8 mm M 6x28	33942625
2 Power nozzle 1,0 mm M 6x28	33942630
2 Power nozzle 1,2 mm M 6x28	33942635
3 UF 25 nozzle holder	33940130
4 UF 25 retaining spring	33940182
5 Spiral red 4 m	33948020
6 Teflon red 1,0–1,2 mm, 4 m	33948110

Wearing parts UF MIG 36

Item no.

7 Gas nozzle D 16 kon	33940226
8 Power nozzle 0,8 mm M 6x28	33942625
8 Power nozzle 1,0 mm M 6x28	33942630
8 Power nozzle 1,2 mm M 6x28	33942635
9 UF 36 nozzle holder M 6x32	33940140
10 UF 36 gas distributor ceramics	33945020
11 Spiral yellow 4 m	33948030
12 Teflon red 1,0–1,2 mm, 4 m	33948110

Note

MIG 315GN³

Item.:
page: 13



MIG Welding Torches

UF MIG 400 and UF MIG 500

Model	UF MIG 400/4
Cooling	Water
Duty cycle 60%	400 A CO ² , 350 A MIX
Wire diameter	0,8 – 1,2 mm
Item no.	33144004

Model	UF MIG 500/4 and 500/5
Cooling	Water
Duty cycle 60%	500 A CO ² , 450 A MIX
Wire diameter	1,0 – 1,6 mm
Item no. 4m	33144014
Item no. 5m	33144015

Model	UF MIG AUT 500/4 and 500/5
Cooling	Water
Duty cycle 60%	500 A CO ² , 450 A MIX
Wire diameter	1,0 – 1,6 mm
Item no. 4m	33144017
Item no. 5m	33144018

Wearing parts UF MIG 400 and UF MIG 500

	Item no.
1 Gas nozzle D 16 kon	33942231
2 Power nozzle 0,8 mm M 8 x 30	33942654
2 Power nozzle 1,0 mm M 8 x 30	33942656
2 Power nozzle 1,2 mm M 8x30	33942640
3 UF 400/500 nozzle holder M 8x25	33940150
4 UF 400/500 gas distributor ceramics	33945030
5 Teflon red 1,0 – 1,2 mm, 4 m	33948110
6 Steel 4 m 1,0 – 1,2	33948210
6 Steel 4 m 1,0 – 1,6	33948220



TIG Welding Torches

SR-Series, Air- and Water-Cooled

Features

- Ergonomically designed handle with rubber inserts for optimal grip – lies well in the hand.
- Power connection SK 35 with lateral gas exit, optionally with quick-action coupling or cap nut.
- Two-core control cable.



Fig. SR 18SC/4

Water cooled

Model	SR 18 SC/4
Cooling	Water
Duty cycle 60%	DC 410 A; AC 290 A
Wire diameter	0,5 – 4,0 mm
Item no.	33153030



Model	SR 18 W/4	SR 18 W/8
Cooling	Water	Water
Duty cycle 100%	DC 320 A; AC 240 A	DC 320 A; AC 240 A
Wire diameter	0,5 – 4,0 mm	0,5 – 4,0 mm
Item no.	33153010	33153020



Model	SR 20 W/4	SR 20 W/8
Cooling	Water	Water
Duty cycle 100%	DC 250 A; AC 220 A	DC 250 A; AC 220 A
Wire diameter	0,5 – 3,2 mm	0,5 – 3,2 mm
Item no.	33153040	33153050



TIG Welding Torches

SR-Series, Air- and Water-Cooled

Machine torch

Model	SR 18 AUT/8
Cooling	Water
Duty cycle 35%	DC 180 A; AC 150 A
Wire diameter	0,5 – 4,0 mm
Item no.	33152560



Wearing parts SR 18SC

Item no.

1 Back cap L	33801010
2 Clamp sleeve 1,6 / 50 mm	33801100
2 Clamp sleeve 2,4 / 50 mm	33801105
2 Clamp sleeve 3,2 / 50 mm	33801110
3 Clamp sleeve casing	3380111X
4 Gas nozzle ceramics Gr. 7	33802360
5 Insulator	33802410



Wearing parts SR 17-18-26

Item no.

1 Back cap L	33801010
2 Clamp sleeve 1,6 50 mm	33801100
2 Clamp sleeve 2,4 50 mm	33801105
2 Clamp sleeve 3,2 50 mm	33801110
3 Clamp sleeve casing 1,6	33801210
3 Clamp sleeve casing 2,4	33801215
3 Clamp sleeve casing 3,2	33801220
4 Gas nozzle ceramics size 5	33801340
4 Gas nozzle ceramics size 6	33801345
4 Gas nozzle ceramics size 7	33801350
4 Gas nozzle ceramics size 8	33801355
5 Insulator	33801400



Wearing parts SR 9-20

Item no.

1 Back cap L	33802010
2 Clamp sleeve 1,6 25 mm	33802100
2 Clamp sleeve 2,4 25 mm	33802105
2 Clamp sleeve 3,2 25 mm	33802110
3 Clamp sleeve casing 1,6	33802210
3 Clamp sleeve casing 2,4	33802215
3 Clamp sleeve casing 3,2	33802220
4 Gas nozzle ceramics size 5	33802340
4 Gas nozzle ceramics size 6	33802345
4 Gas nozzle ceramics size 7	33802350
5 Insulator	33802400



TIG Welding Torches

SR-Series, Automatic torch

Features

- Ergonomically designed handle with rubber inserts for optimal grip – lies well in the hand.
- Power connection SK 35 with lateral gas exit, optionally with quick-action coupling or cap nut.
- Two-core control cable.

All SR-torches with micro-switch



Air cooled

Model	SR 17/4*	SR 17/8
Cooling	Gas	Gas
Duty cycle 35%	DC 140 A; AC 125 A	DC 140 A; AC 125 A
Wire diameter	0,5 – 2,4 mm	0,5 – 2,4 mm
Item no. without potentiometer	33152538	33152540
Item no. with potentiometer	02.12.03.00046	02.12.03.00066



Model	SR 26/4	SR 26/8
Cooling	Gas	Gas
Duty cycle 35%	DC 180 A; AC 150 A	DC 180 A; AC 150 A
Wire diameter	0,5 – 4,0 mm	0,5 – 4,0 mm
Item no.	33152545	33152548



Model	SR 26/8 with poti
Cooling	Gas
Duty cycle 35%	DC 180 A; AC 150 A
Wire diameter	0,5 – 4,0 mm
Item no.	33152549

With 50 cm leather-sleeve between torch and hose – for more welding comfort.



Profi-Line Plasma

CNC Plasma Cutting

Portable CNC plasma cutter CNC CUT V

This small unit is quick to assemble and dismantle, due to its lightweight and solid aluminium construction. Thus, it offers a flexible solution with all the advantages of a CNC controlled plasma unit – whether in shop or on tour. The torch arm moves via rack.



Control with
USB interface

Model	CNC CUT V	
Supply voltage	230 V, AC/110V AC, 50/60 Hz	
Cutting Speed	0 – 1.000 mm/min (oxy-acetylene) 0 – 8.000 mm/min (plasma)	
Height control	THC (Plasma)	
Effective cutting range (mm)	X-Axis 1.500 mm Y-Axis: 3.000 mm	
Cutting thickness	6 mm - 250mm (Flame)	Depending on the plasma power source
Cutting tolerance	± 0,4 mm (with standard plasma system)	
Posit. accuracy	< 0,3 mm	
Rep. pos. accuracy	< 0,4 mm	
Weight	230 kg	
Dimensions	1670x3500	
Item no.	02.02.50.00020	

Portabel and accurate: CNC-plasma cutter CNC CUT E

Portable device, especially for long workpieces. The torch moves on a gear rack. The cross beam with the torch is based on rails. Despite of the simple construction the device works very accurate. **With anti-collision system!**



Control with
USB interface

Model	CNC CUT E
Supply voltage	230 V, AC/110V AC, 50/60 Hz
Cutting Speed	0 – 1.000 mm/min (oxy-acetylene) 0 – 8.000 mm/min (plasma)
Height control	THC
Effective cutting range (mm)	X-Axis: 1.500 mm Y-Axis: 3.000 mm (further sizes on request)
Cutting tolerance	± 0,4 mm (with standard plasma system)
Cutting tolerance	< 0,3 mm on request
Posit. accuracy	< 0,3 mm
Rep. pos. accuracy	< 0,4 mm
Weight	80 kg
Dimensions	1670 x 3500
Item no.	02.02.50.00115

The CNC plasma device CUT Mini and E are delivered with:

- Libellula® Wizard 3 Software with nesting function
- USB interface

Profi-Line Plasma

CNC Plasma Cutting

The cost-effective plasma cutting solution:
CNC CUT Smart

Low space requirement but all benefits of a plasma cutting table. Easy to install and to maintain. Start directly working with the supplied software.

**Only
1.5 x 1.5 m
required
space**



Product presentation

Control with
USB interface

incl. Software:

- Libellula® Wizard 3 Software with
nesting function

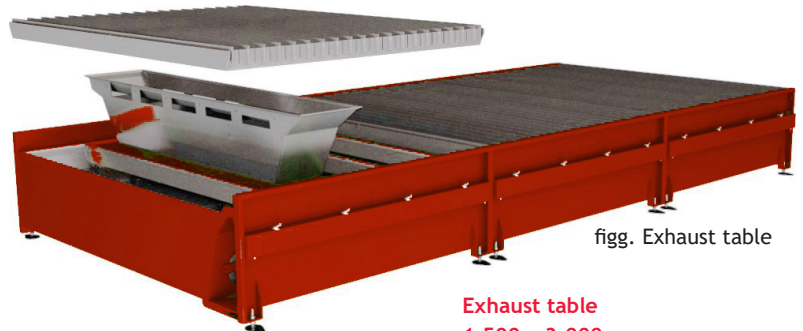


Model	CNC CUT Smart			CNC CUT Smart PRO	CNC CUT Smart PRO ECO
Supply voltage	230 V, AC/110V AC, 50/60 Hz			220V single-phase for CNC; 380V 3-phase for plasma Current source	
Moving speed	0 ~ 20.000 mm/min			0 ~ 15.000 mm/min	
Running speed	1 ~ 7,000mm/min				
Effective cutting range	1.300 mm x 1.300 mm	1.300 mm x 2.500 mm	1.500 mm x 3.000 mm	1600 x 3000 mm	
Cutting Speed	1 ~ 7,000mm/min			12000 mm/min	8000 mm/min
Cutting tolerance	± 0,3mm (with standard plasma system)			± 0,2 mm (with High-Definition)	
Posit. accuracy	0,3 mm			0,2 mm	
Rep. pos. accuracy	< 0,4 mm			< 0,3 mm	
Height control	THC			THC for plasma and OHC oxyfuel with anti-impact protection	
Maschine Size (LxWxH) mm	1.818x1.950x1.361	3.018x1.950x1.361	3.518x2.150x1.361	The CNC Cut Smart Pro is a revised version of the CNC CUT Smart, because here you have twice the rail length, two versions with different cutting speeds of 12000 mm/min or 8000 mm/min. and you can also easily equip them with the Max Pro 200. This meets the requirements of customers who want a heavy CNC Cutting machine.	
Cutting thickness	0,3 mm - 15 mm	0,3 mm - 30 mm	0,3 mm - 30 mm		
Weight	400 kg	650 kg	750 kg		
Cross beam	Aluminium (60x145)				

Profi-Line Plasma

CNC Plasma Cutting

Water table	for cutting thickness
1.300 x 1.300 mm	0,3 mm - 15 mm
1.300 x 1.300 mm	0,3 mm - 30 mm
1.300 x 2.500 mm	0,3 mm - 15 mm
1.300 x 2.500 mm	0,3 mm - 30 mm
1.500 x 3.000 mm	0,3 mm - 15 mm
1.500 x 3.000 mm	0,3 mm - 30 mm



figg. Exhaust table

Exhaust table
1.500 x 3.000 mm
max. cutting thickness: 30 mm



Productvideo

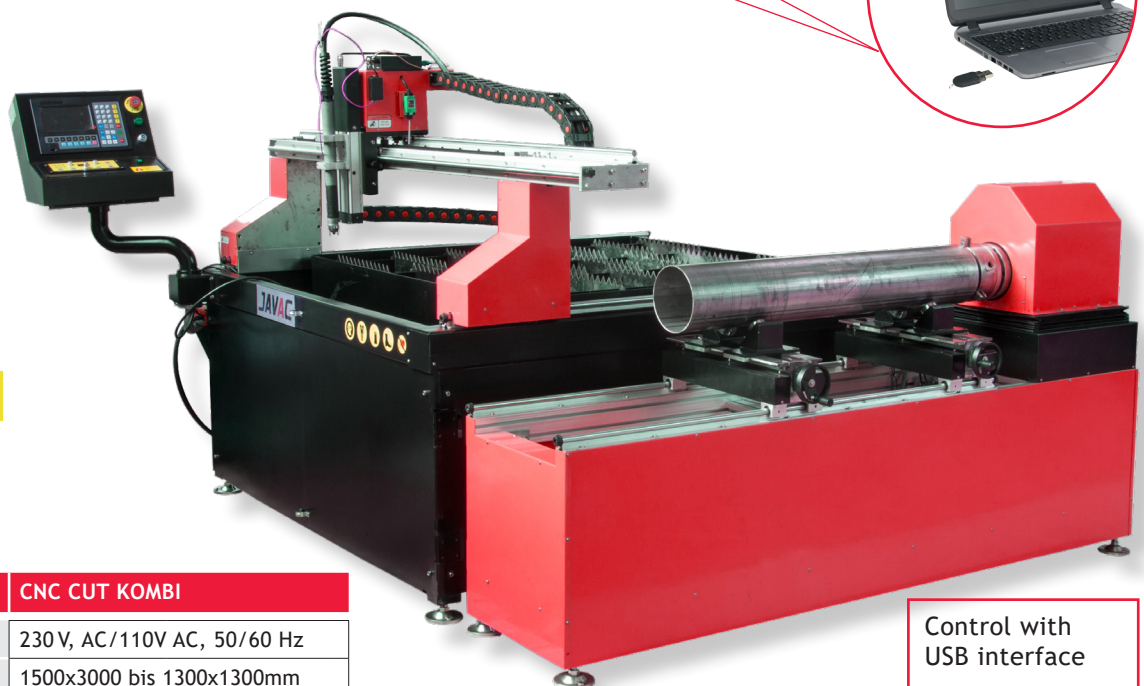
CNC CUT combination especially for flat and tube

Precise cuts are very easy with the CNC CUT Kombi plasma cutting system. Due to the dual system, you can cut workpieces with an autogenous or plasma torch.

Create your template on your PC and just transfer it to an USB-stick...



Productvideo



Control with
USB interface

incl. Software:
- Libellula® Wizard 3 and Tube 2-axis Software
with nesting function

Model	CNC CUT KOMBI
Supply voltage	230 V, AC/110V AC, 50/60 Hz
Movement speed	1500x3000 bis 1300x1300mm
Power	dual mode, Smart Servomotor
Cutting Speed	0 - 15.000 mm/min
Cutting precision	< 0,5mm
Cutting mode	Oxy-acetylene and plasma

Profi-Line Plasma

CNC Plasma Cutting

CNC CUT Master-X

The CNC Cut Master-X has two torch holders, one for oxy-fuel cutting and one for plasma cutting. The integrated plasma systems have revolutionized the high-end, high performance and automatic systems. Thermal Dynamics' iCNC performance allows you to perform first-class, professional and qualified work with low-cost machines. Thermal Dynamics CNC control and Libellula software allow you to cut perfect holes with Perfect Hole software, combining know-how with technological capabilities.



Model	CNC CUT Master-X
Supply voltage	AC220-240V, 50/60 Hz
Drive	1000Wx2,750Wx1 AC Panasonic Servo System, Dual drive
Reducer	1:25 APEX
Running speed	0-28.000 mm/min
Cutting speed	0- 12000mm/min (base on material thickness and plasma power source)
Positioning speed	10000mm/min
Cutting tolerance	± 0.2 mm (with High-Definition)
Positioning accuracy	0,2 mm
Repeat positioning accuracy	< 0.2 mm
Effective cutting range (mm)	1.500 mm x 3.000 mm
Cross drive unit	Two torch systems (Oxyfuel and Plasma)
Height control	Auto Thermo Dynamics THC for Plasma; Capacity for oxyfuel (OHC)
Cutting thickness	0- 45 mm perforation cutting (plasma); flame cutting thickness 0-150mm
CNC control mode	iCNC
CNC System	Thermal Dynamics iCNC Performance with internal height control for 1 Plasma Torch incl. VDB (15-7001)
True Hole Nesting Software	Thermal Dynamics productivity tool (15-1060) Automatic Nesting (15-1061)
Maschine size	2900 x 4100 x 2200 mm
Weight	2600 kg

Profi-Line Plasma

CNC Plasma Cutting

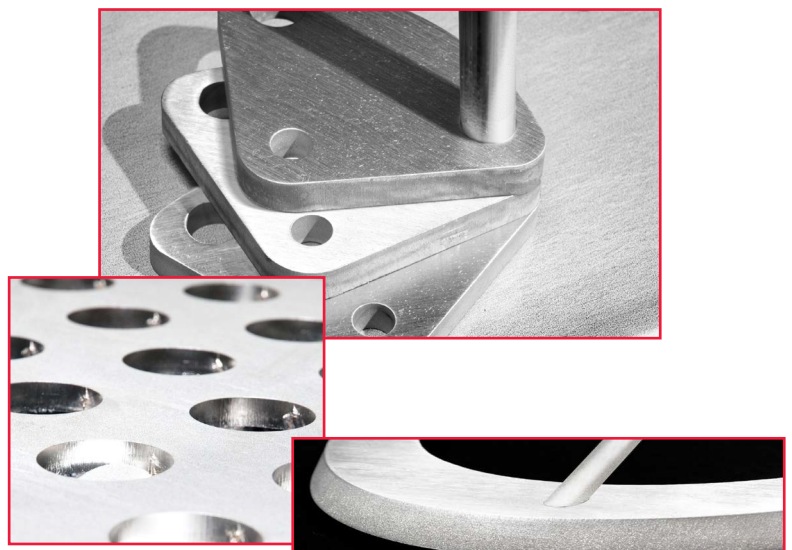
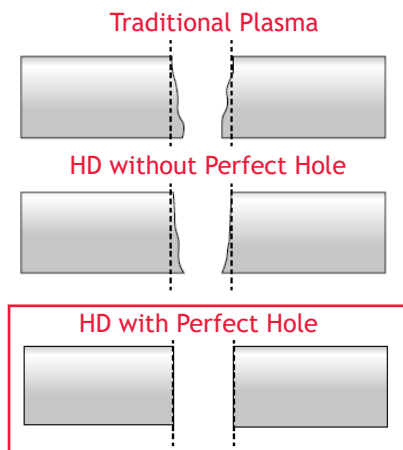
Features

- 15 Inch Touchscreen
- Control panel for plasma, oxyfuel and additional functions
- Integrated WiFi
- 3-axis drive outputs
- Single CPU, 4-wire, 1.91 GHz
- 4Gb DDR3 main memory
- 5 x USB, I/O 16+40, 3 Input encoders
- Power consumption 24 VDC
- Optional integrated plasma height control
- Optional servo motors with built-in amplifiers Individually adaptable
- Control panel only, ideal for OEM applications
- Amplifier housing: easy for retrofit and OEM applications where no existing housing is available.
- Amplifier options: 400W and 750W for cutting machines with one or two drives
- Servomotors with built-in amplifiers



iCNC Control mode

Cut Quality with Perfect Hole Software



Perfect Hole automatically adjusts the following parameters depending on material type, thickness and hole size.

Profi-Line Plasma

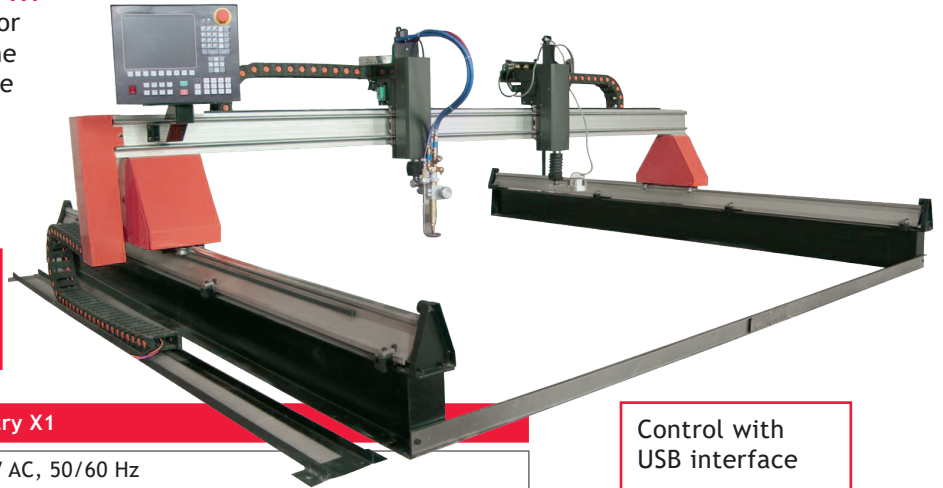
CNC Plasma Cutting

CNC-plasma cutting device CUT Gentry X1

The device has two torch holders, one for plasma cutting and one for oxy-acetylene cutting. On request the Gentry X1 can be extended to further cutting ranges.

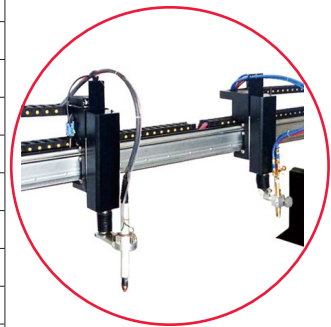
incl. Software:

- Libellula® Wizard 3 Software with nesting function



Model	CNC CUT Gentry X1
Supply voltage	230 V, AC/110V AC, 50/60 Hz
Power	750W x 2, 400W x 1, AC Panasonic Servosystem, Dual driving mode
Cutting mode	Flame and Plasma
Cutting Speed	Flame: 0 - 1.000mm/min, Plasma: 0 - 10.000mm/min
Moving Speed	0 - 10.000 mm /min.
Effective cutting range	3.000 x 3.000 mm
Height Control	THC
Tolerance	≤ 0,5 mm
Positioning accuracy	± 0.3mm
Repeat positioning accuracy	± 0.3mm
Cutting Thickness	Flame: 6 - 300 mm, Plasma: Due to the power source
Weight	650 kg
Dimensions (LxWxH) mm	3800x1220x1250

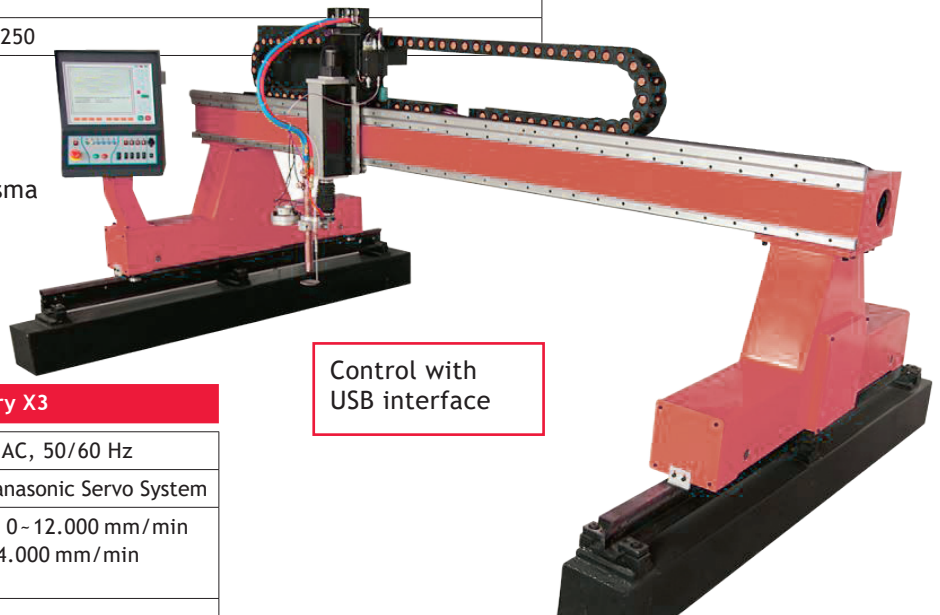
Control with USB interface



CNC CUT Gentry X3 for longitudinal cuttings up to 6 meter

Dual System for oxy-acetylene and plasma cutting.

Easy to handle and maintain.



Model	CNC CUT Gentry X3
Supply voltage	230 V, AC/110V AC, 50/60 Hz
Power	750W x 3, AC Panasonic Servo System
Cutting Speed	Oxy-acetylene: 0 - 12.000 mm/min Plasma up to 24.000 mm/min
Cutting tolerance	< 0,5 mm
Cutting mode	Oxy-acetylene and plasma
Effective cutting range (mm)	3.000 x 6.000 mm
Height control	THC
Dimensions	4350x8000x1750
Weight	2100 kg

Control with USB interface

incl. Software:

- Libellula® Wizard 3 Software with nesting function

Profi-Line Plasma

CNC Plasma Cutting

Cost efficient tube-cutting solution: CNC CUT S1 2-axis device

The system is simple and sturdy and can be operated simple and intuitive. A huge range of standard patterns are already installed on the device, and can be easily applied to the pipe.



incl. Software:
- Libellula Tube 2-Axis Software with nesting function



Control with
USB interface

Model	CNC Tube S1, 2-Axis	
Supply voltage	230 V, AC/110V AC, 50/60 Hz	
Power	1200 W AC Panasonic Servo system	
Movement speed	10-6000 mm/min	
Rotational speed	0 - 5.000 mm/min	
Cutting tolerance	< 0,5 mm	
Machine Repeatability	0,15 mm - 0,2 mm	
Cutting mode	Oxy-acetylene and plasma	
Length	3m	6m
Workpiece diameter	25 x 250 mm	
Height control	THC	
Weight	1100 kg	



Control with
USB interface

incl. Software:
- Libellula® Tube 2-Axis Software with nesting function

Model	CNC Tube S2, 2-Axis	
Supply voltage	230 V, AC/110V AC, 50/60 Hz	
Power	800 W	
Movement speed	0 - 6.000mm/min	
Cutting speed	0 - 5000 mm/min	
Cutting tolerance	< 0,5 mm	
Cutting mode	Oxy-acetylene and plasma	
Length	3m	
Workpiece diameter	25 x 250 mm	
Height control	THC	
Dimensions (LxWxH) mm	1070 x 6800 x 1200	
Weight	900 kg	

CNC CUT S2, 2-Axis unite

This design consists of a boom (+ support block) for the torch, a rotating unit that shifts and rotates the tube, and the separate control unit. The workpiece is placed here on balls.

Profi-Line Plasma

CNC Plasma Cutting

Cost efficient tube-cutting solution for plasma cutting on tube: CNC CUT P1 2-axis unit and 4-axis unit.

The system is simple and sturdy and can be operated simple and intuitive. A huge range of standard patterns are already installed on the device, and can be easily applied to the pipe.



incl. Software:

- Libellula TUBE 2-Axis / 4-Axis Software with nesting function

Control with
USB interface

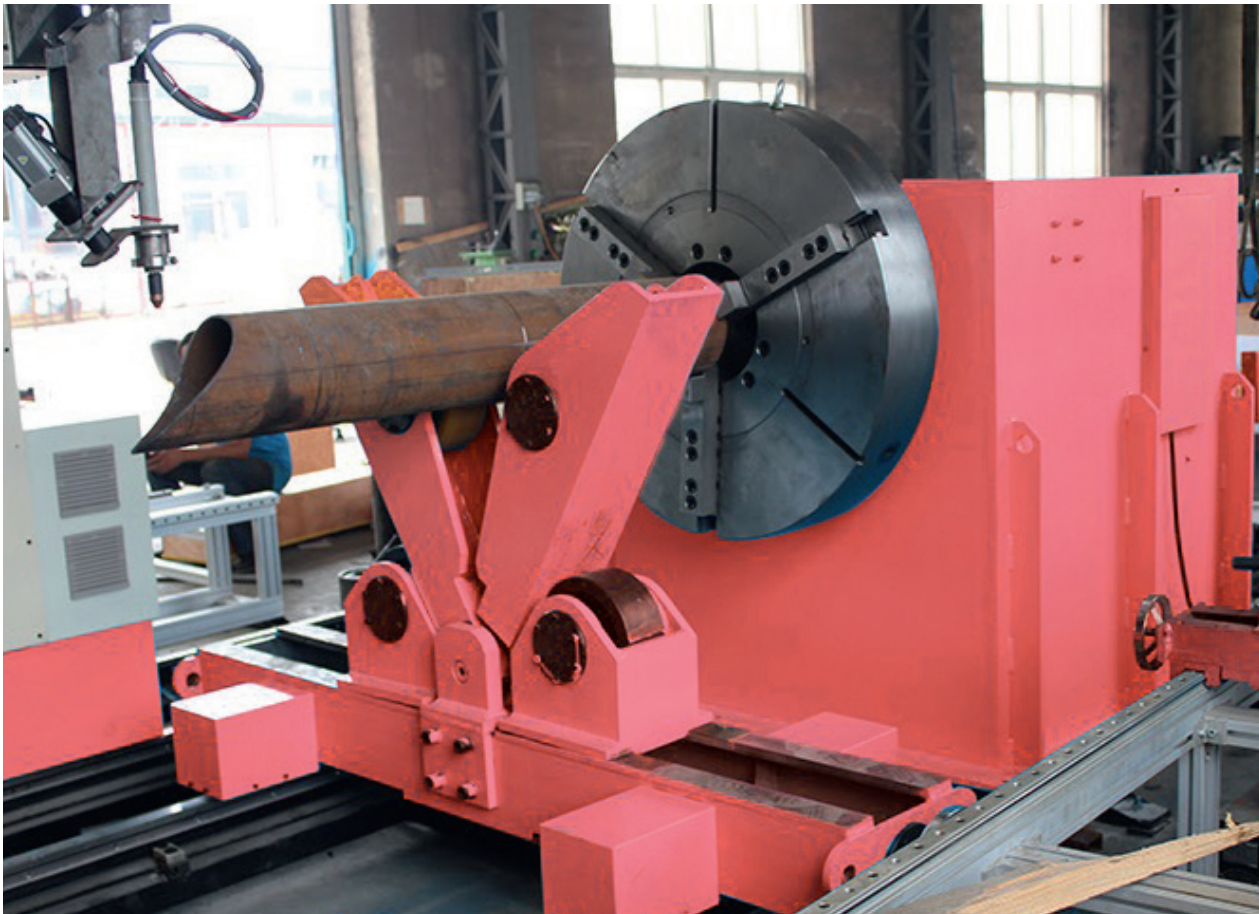
Model	CNC Tube P1, 2-Axis		CNC Tube P1, 4-Axis	
Supply voltage	230 V, AC/110V AC, 50/60 Hz			
Power	1200W, AC Panasonic Servo system			
Running speed	1-8,000 min/min			
Rotational speed	0 - 5000min/min			
Cutting Speed	1-6,000 min/min			
Cutting tolerance	± 0,5 mm (with standard plasma system)			
Positioning accuracy	0,3 mm			
Repeat positioning accuracy	< 0,5 mm			
Cutting mode	Plasma Cut (Flame Cut is optional)			
Workpiece diameter	50 x 400 mm	50 x 600 mm	50 x 400 mm	50 x 600 mm
Effective Diameter area	φ25-φ600mm			
Effective pipe lenght	≤ 6.000 mm			
Height control	THC		THC	
Dimensions (LxWxB) mm	7057x1003x2049			

Profi-Line Plasma

CNC Plasma Cutting

The "Master of Plasma cutting" on pipe: CNC Tube M 4-Axis

The Model Tube M of the CNC Tube series can handle tubes up to 125 cm. Many standard forms are already created in the control system and can easily be transferred to the pipes.



Model	CNC Tube M, 4-Axis
Supply voltage	230 V, AC/110V AC, 50/60 Hz
Power	3000W, AC Panasonic Servo system
Movement speed	0 - 6.000 mm/min
Rotational speed	0 - 5000min/min
Cutting speed	0-3000 min/min
Cutting tolerance	< 0,5 mm
Cutting mode	Oxy-acetylene and plasma
Workpiece diameter	100 - 1250 mm
Height mode	THC

Control with
USB interface

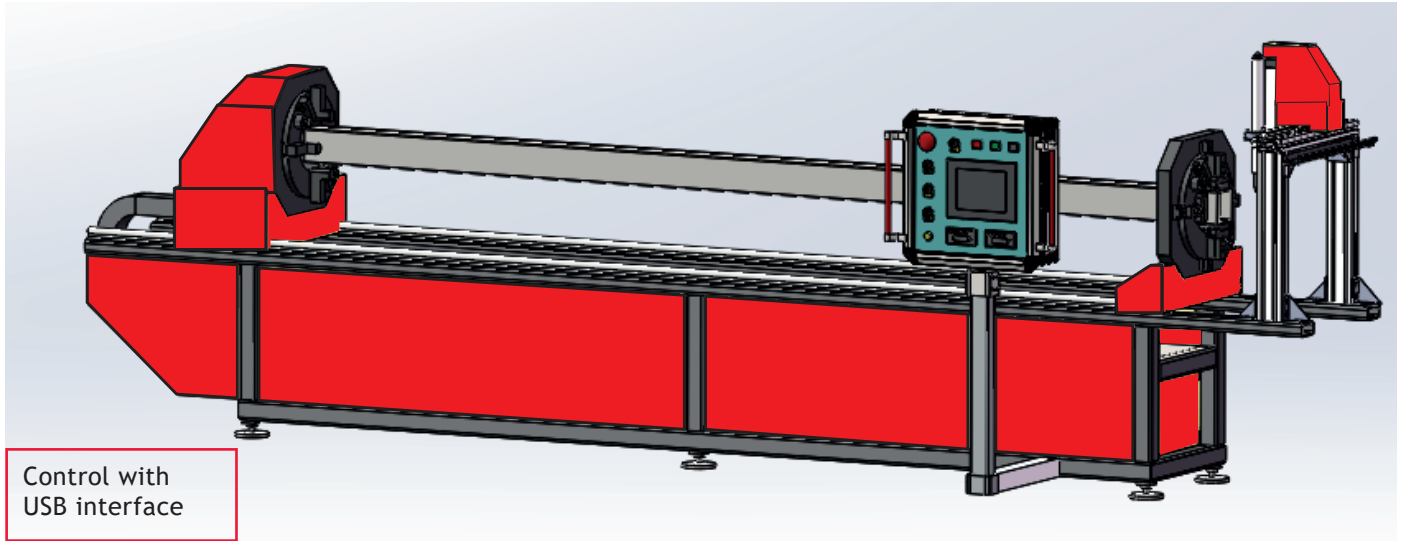
incl. Software:
- Libellula TUBE 4-Axis
Software with nesting
function

Profi-Line Plasma

CNC Plasma Tube Machine

Round- and square tube CNC machine

Our round and square CNC tube cutting machine processes square (from 25 mm to 180 mm) and round tubes (from Ø25 mm to Ø250 mm) and is equipped with the latest German chuck tube cutting technology, allowing easy assembly of steel tubes.



Model	CNC-VKR-1	CNC-VKR-2
Supply voltage	AC220V / 50/60HZ / single-phase	
Input Power	5KW	8-10 KW
Cutting Speed	0-6000mm/min.	
Moving Speed	0-8000mm/min.	
Rotational Speed	0-6000mm/min.	
Axis	5 axis 4 Linkage	
Auto THC	Arc voltage height controller with anti-collision	
Pipe size (round pipe)	Ø 25 mm to Ø 150mm	Ø 50 mm to Ø 250mm
Pipe size (square pipe)	25 mm to 100 mm	50 mm to 180 mm
Pipe lenght	3000 mm	6000 mm
Cutting precision	≤±0,05 mm/m	
Tolerance	≤±0,03 mm	
min. stitch width	≤0.15 mm	
movement path	X:1500mm; Y:3000mm; Z:120mm	X:2500mm; Y:6000mm;

incl. Software:

- Libellula TUBE 4-Axis Software with Nesting Function

Profi-Line Plasma

Fiber Laser Cutting Machine

Fiber Laser Cutting Machine

With the CNC tube fiber laser cutting machine you can now also process square tubes with an edge length of 20x20 mm to 105x105 mm and a maximum length of 6000 mm.



Incl. Software:

- Libellula TUBE Software with Nesting Function

Model	CNC-Fiber laser cutting machine
Laser power	2000W, 5000W up to 10KW
Pulse Frequency	1-20000HZ
Cutting Speed	6000mm×1500mm
Supply voltage	380V/50HZ/3 phases
Laser wavelength:	1070-1080nm
Edge length for square pipes	20x20mm to 105x105mm(max. length :6000mm,the rest has 200mm)

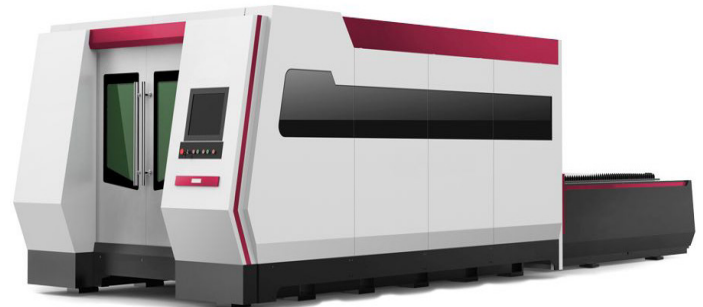
Create your template on your PC and just transfer it to an USB-stick...



Productvideo

CNC fiber laser cutting machine

With the CNC fiber laser cutting machine you can easily process mild steel, silicon steel, stainless steel, aluminum alloy, titanium alloy, galvanized sheet metal and other sheet materials with excellent laser radiation and high cutting speed.



Model	CNC-Fiber laser cutting machine	
Supply voltage	AC380V 3-Phase/Hz/60Hz	
Cutting range	1300 x 2500mm	1500 x 3000mm
Lasertype	Standard Raycus or IPG	
Laser wavelength	1070±10 nm	
Laser output power	1KW / 2KW / 5KW / 8KW / 10KW	
Cutting thickness	up to 20 mm if need	
Cutting speed	30 m/min.	
Drive	X: 1500; Y: 3000; Z: 120	
max. movement speed	120 m/min	
Tolerance	≤±0,05 mm/m	
Repeatability	≤±0,03 mm	
min. stitch width	≤0.15 mm	
Cooling	water-cooled radiator	
drive system	YASKAWA servo motor and drive control system	

Create your template on your PC and just transfer it to an USB-stick...



Incl. Software:

- Libellula® Wizard 3 Software with Nesting Function

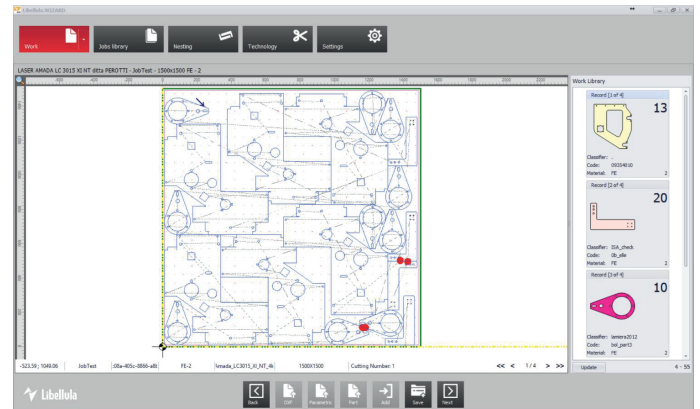
Profi-Line Plasma

CNC Profi-Softwarepackage Libellula® Wizard

Libellula!

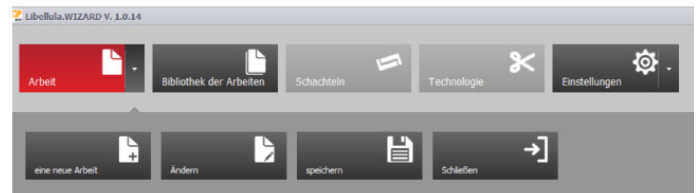
This plate-processing software can be ordered separately. Develop your project on your local PC and transmit it via the USB-interface to the plasma cutting device at the workplace. Existing files in many common formats can be processed (dwg, dxf, etc.).

Libellula is a software application which can be learned very quickly, so no additional training of the user is necessary.



Features

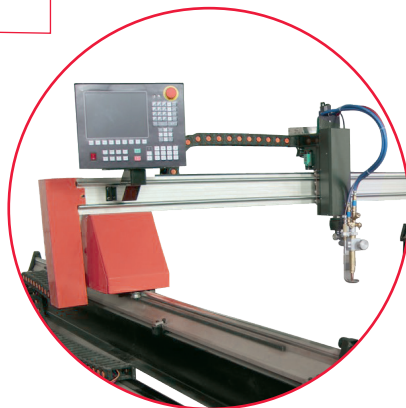
- Create any 2D object
- Trouble free data exchange
- 3D simulation
- DXF/DWG import/export for your existing projects



Create your template on your PC and just transfer it to an USB-stick ...



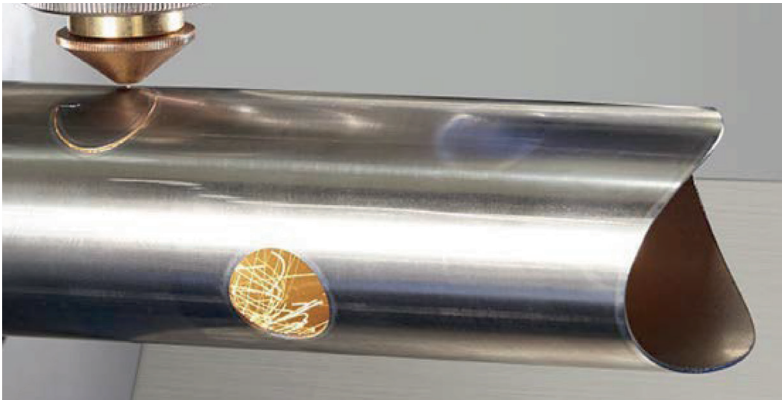
... and to the cutting device. That's it.



Functions	Libellula Wizard 3
DXF/DWG-Import	yes
2D-Icon-library	yes
Sheet metal library	yes
Icon-control	yes
Nesting type	automatic
Cutting technology library	manually/automatic
Cutting technology chart	yes
Cutting path visualization	yes
Cutting path control	yes
cutting path correction	automatic
Post-Processor	yes
Realistic 3D-simulation	yes
Cutting time calculation	yes
Individual interface	yes
HVAC-Modul on demand	yes
BEVEL-Modul on demand	yes
STORAGE-Modul on demand	yes
VISIO-Modul on demand	yes

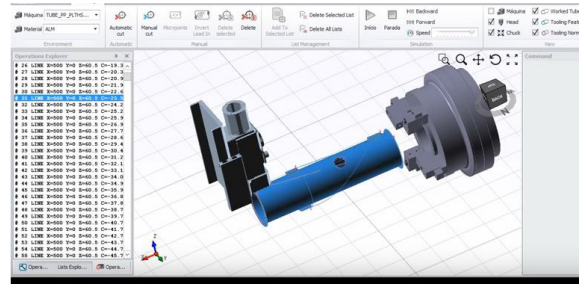
Profi-Line Plasma

CNC Profi-Softwarepackage Libellula TUBE®



CNC-Precision!

Libellula TUBE makes programming incredibly easy and fast of each cutting machine for tubes and profiles

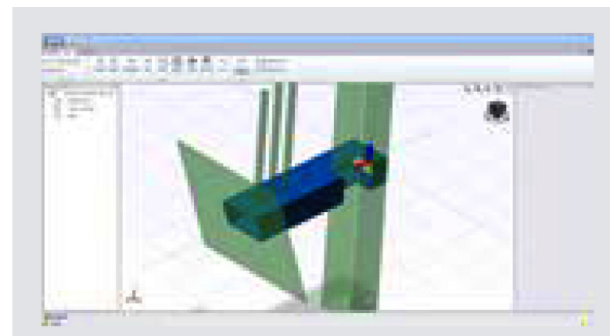


Libellula TUBE Software package

Libellula TUBE!

This pipe-processing software can be ordered separately. Develop your project on your local PC and transmit it via the USB-interface to the plasma cutting device at the workplace. Existing files in many common formats can be processed (dwg, dxf, etc.).

Libellula is a software application which can be learned very quickly, so no additional training of the user is necessary.



Parametric design environment

Features

- Parametric tube design: everything in just a few steps, with maximum flexibility
- Possibility of creating templates on the basis of sections loaded from DXF file
- Real-time design of the model with immediate display of the geometric changes of the whole piece or a particular attribute
- With each change, the shaft of the design will populate the levels of all tools used; the history thus created will also change the tools and parameters in a fast and functional way. The tools used for the creation of the model will be parametric and of any possible shape, enabling you to create totally customizable tubes



Technology and simulation



3D Postprocessor generation

3D simulation and automatically PPR creation

Libellula.TUBE enables the creation of 3D cutting pattern starting from the particular desired, in addition to its simulation in the machine and to the generation of the post-processor in a fully automatic manner.

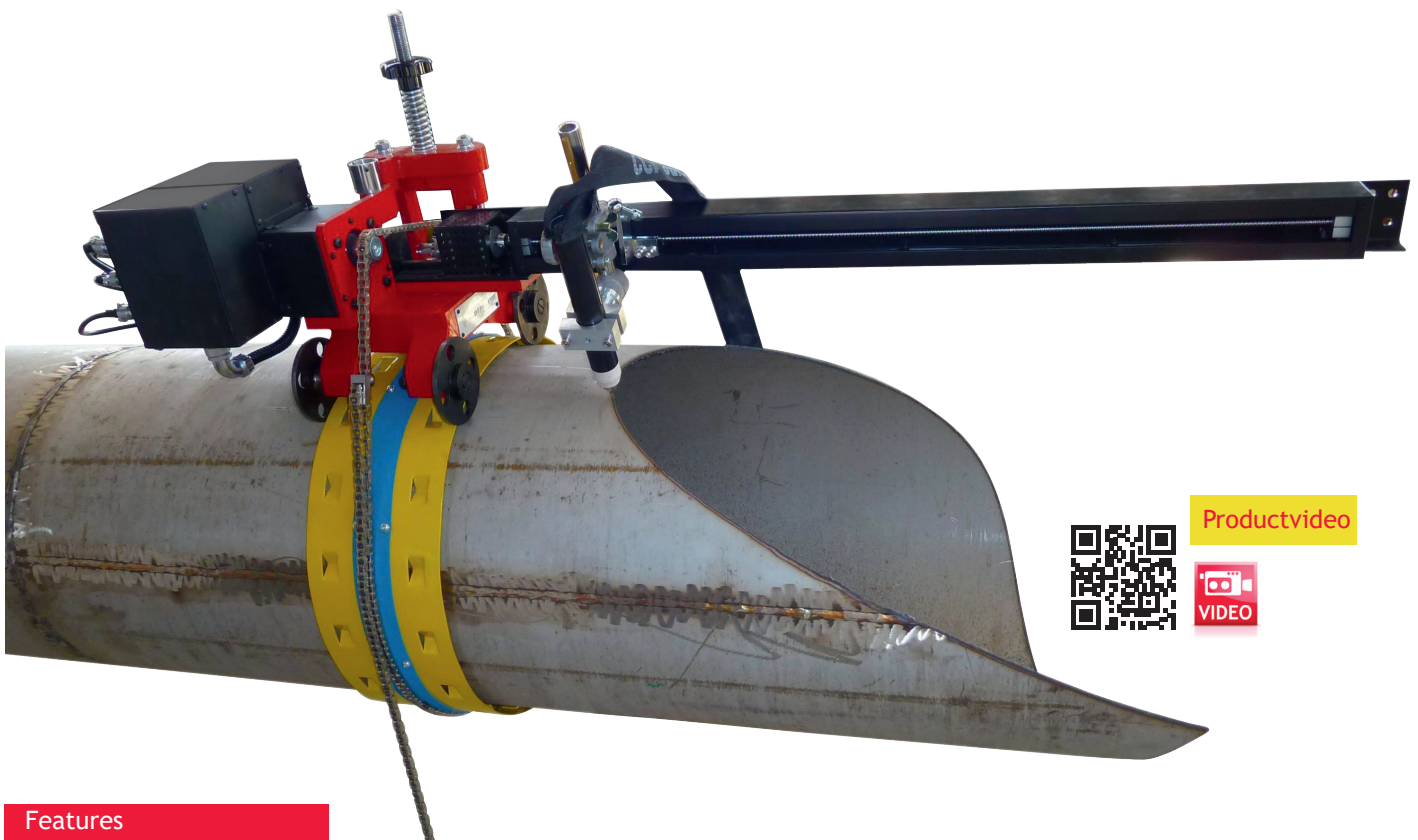
Profi-Line Pipe cutting

NC-Pipe cutting machine JD-Series

The NC controlled pipe cutting machines of the JD-Series are developed for the needs of the middle to the big Industry.

The JD-Series controlled by means of NC Systems. The carriage is mounted on the workpiece by the help of a guiding rail and clamping chain and thanks to the boom it can move horizontal and vertical.

The pipe cutting machine is suitable for autogenous cutting as well as plasma cutting.



Productvideo



Features

- Suitable for all diameters and materials of pipes thanks to the flexible and extensible belts.
- The tolerance of the equipment is ± 1 mm.
- For chamfering cutting too.
- Straight or spiral form cutting of pipes.
- Mobile use, no matter it is on.
- You don't need CAD knowledge because the system is integrated to the controller.
- Software-Update at customer requirement is possible at all time.
- Supply voltage 230V
- Cutting speed 0 to 800 mm/min



The belt, which is imaged here (on the left) lays around the pipe and uptight with a clamp. Thanks to this easy system all pipe diameters could be covered. The belts are combinable among themselves, to reach large diameter.

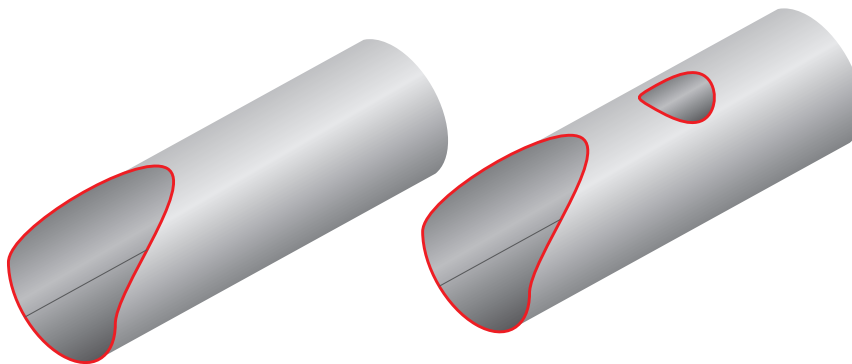
Model	Length
STG 1	0,98 m
STG 2	1,23 m
STG 3	1,38 m
STG 4	1,72 m
STG 5	1,90 m
STG 6	2,50 m

Profi-Line Pipe cutting

NC-Pipe cutting machine JD-Series

Model	Typ	Pipe diameter	movement (horizontal)	Hole cutting	Software
JD1-JH	Eco	80 bis 320 mm	200 mm	–	01/07
JD1-JB	Basic	80 bis 680 mm	400 mm	–	01/07
JD1-BZ	Standard	80 bis 1.020 mm	600 mm	–	01/07
JD1-PSK	Klassik	80 bis 1.420 mm	200 mm	–	07
JD1-R80B	Klassik R	80 bis 1.800 mm	800 mm	–	01/02/03/05 – 08
JD1-X80B	Klassik X	80 bis 3.000 mm	800 mm	–	01/02/03/05 – 12
JD2-JH	Eco	80 bis 320 mm	200 mm	200 mm	01/07
JD2-JB	Basic	80 bis 680 mm	400 mm	400 mm	01/07
JD2-BZ	Standard	80 bis 1.020 mm	600 mm	600 mm	01/07
JD2-R80B	Klassik R	80 bis 1.800 mm	800 mm	800 mm	01/02/03/05 – 08
JD2-X80B	Klassik X	80 bis 3.000 mm	800 mm	800 mm	01/02/03/05 – 12
Software					

* On customers request Workpiece diameter up to 6,000 mm possible.



The JD1 series are specially designed to trim pipes. Additional with the JD2 series hole cuttings on pipes are possible. (see drawing on left)

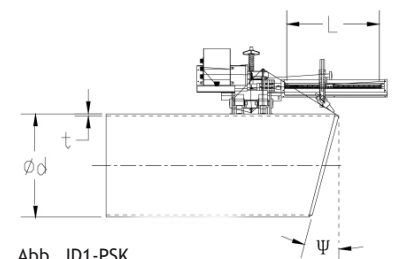





















Abb. JD1-PSK

				
01	02	03	04	05
				
06	07	08	09	10
				
11	12	13	14	15
				
16	17	18	17	

The chart on the left shows the cutting options as given by the system (Please check with above chart).
The most required cuttings are part of all equipments. More selections on request.

Scope of delivery:

- 1 Carriage with boom
- 1 Flexible belt with connecting clamp
- 1 Clamping chain with joint
- 1 Separate controller in a case
- 1 8m control cable
- 1 large tool set

Profi-Line Pipe cutting

NC-Pipe cutting machine JM-ST-Serie

The JM-ST series has been specially designed for precise tube processing. Thanks to its precise and efficient cutting quality, the JM-ST series can be used in tank construction, pipeline construction, power plant construction, gas industry, for technical maintenance, projects and even for aircraft production.

The high-quality slanting cuts up to an angle of 45 degrees allow new production possibilities. Thus, for example, precise cuts and chamfers are possible.

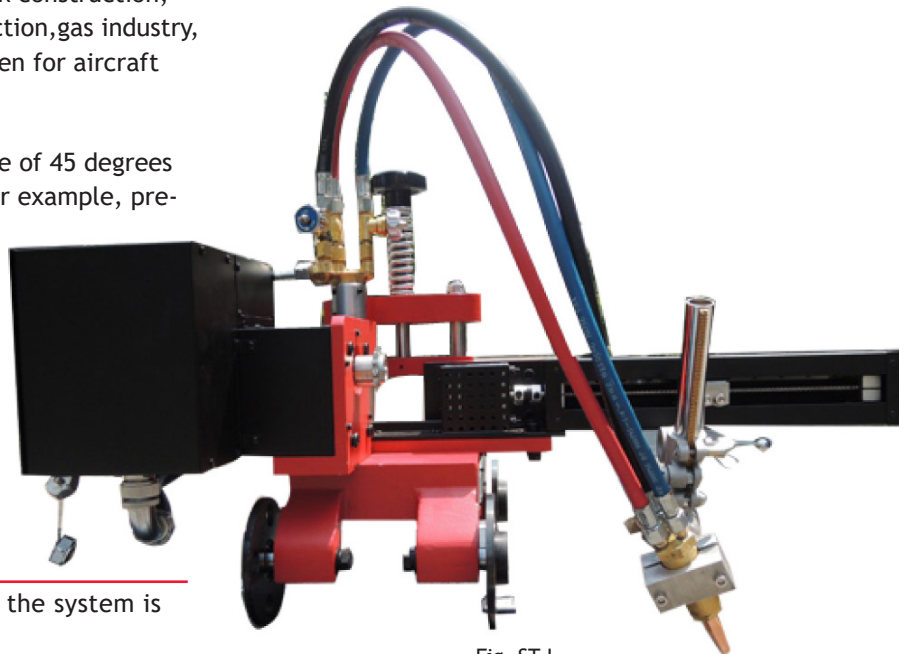


Fig. ST I

Features

- You don't need CAD knowledge because the system is integrated to the controller.
- Useable for special constructions areas.
- Light and durable aluminium housing.
- Cuttingspeed from 0 to 800 mm/min or 400 - 4000 mm / min.
- The control box is protected by a protective flap.
- Highest cutting precision for the high standard of welding.

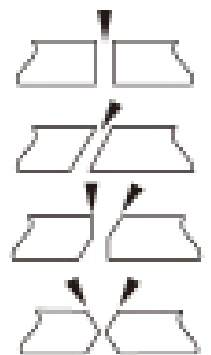
Model	Length
STG 1	0,98 m
STG 2	1,23 m
STG 3	1,38 m
STG 4	1,72 m
STG 5	1,90 m
STG 6	2,50 m



Tension belt



JM-ST II



Model	JM-ST I	JM-ST II
Nominal power	60 W	400 W
Supply voltage	AC 220 V / 50Hz	
Pipe diameter	320 - 3000 mm*	320 - 3000 mm
Cutting speed	0 - 800 mm/min.	400 - 4000 mm/min
Surface variante	< 6.3 µm	
Angle	±45°	

Profi-Line Pipe cutting

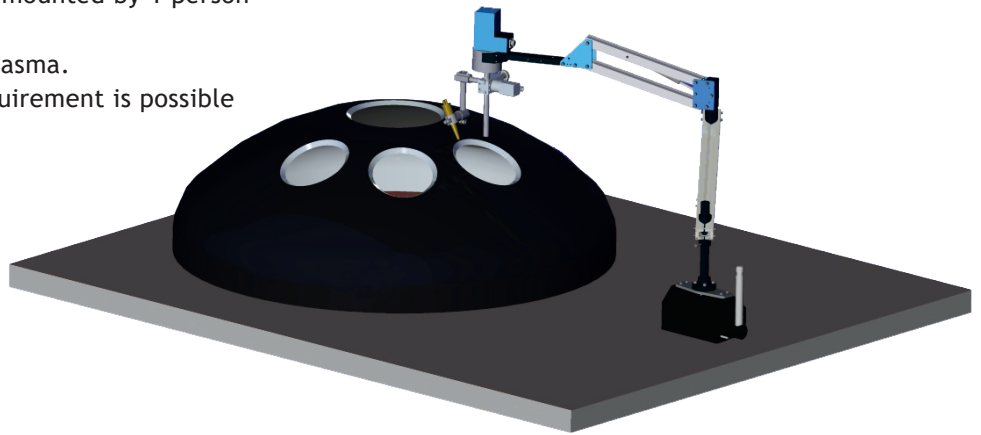
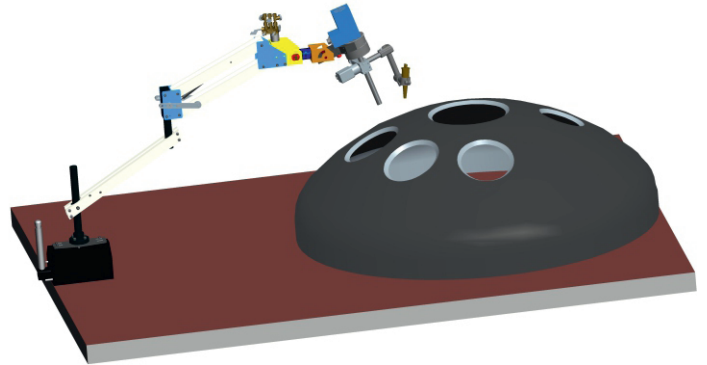
Portable Pipe cutting machine MJ-Serie

Mobil with MJ-Serie

The small units of the MJ-series could be placed on every steel-workpiece to cut holes up to 1200 mm diameter.

Feature

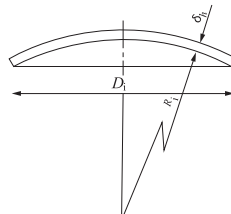
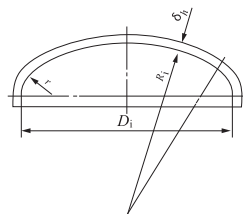
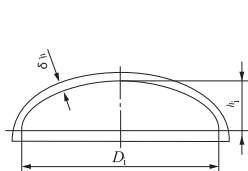
- Hole cuttings on pipe shells in all directions.
- You don't need CAD knowledge because the system is integrated to the controller.
- Remote operation.
- Orthogonal and eccentric cuttings on steel or carbon steel
- The unit can be easily and quickly mounted by 1 person thanks to the magnetic foot.
- The unit cuts oxy-acetylene and plasma.
- Software-Update at customers requirement is possible at all time.



The professional arm system enables exact cuttings in and from all directions. All units of the MJ-Series are fixed by a powerful switch magnet.



MJ-Controller in case



Productvideo



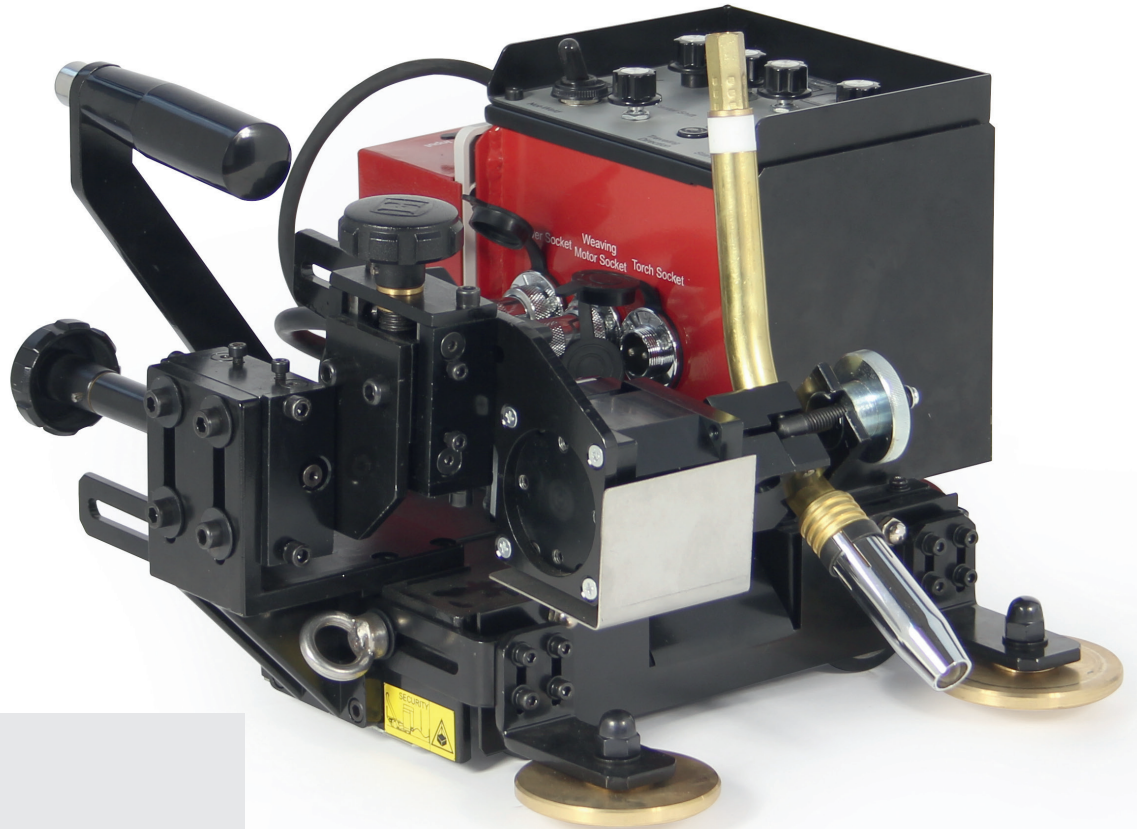
Model	Function	Cutting diameter	Vertical adjustment	Angle	Cutting source	Price in €
MJ-11	orthogonale cutting	50 to 300 mm	0 - 150 mm	± 45°	Plasma and Oxy-Acetylene cutting	on request
MJ-12		50 to 600 mm	0 - 180 mm			on request
MJ-14		50 to 1.200 mm	0 - 180 mm			on request
MJ-15	Head-hole	50 to 600 mm	0 - 300 mm			on request
MJ-16	Head-hole, Pipe	50 to 600 mm	0 - 300 mm			on request
MJ-17	all directions	50 to 600 mm	0 - 300 mm			on request
Saddle holder						on request

Welding tractors

MIG-500 and MIG 502 with magnet and battery

MIG 500 – with a large scope of delivery.

Horizontal and vertical welding will be no problem with the MIG 500/MIG502. The carriage can be mounted on different rack rails (page 72)



Scope of delivery:

- 1 Welding tractor
- 1 Transformer
- 1 Battery
- 1 Adapter for butt welds
- 1 Pair claws for Nylon- and alu-rail
- 1 Pair claws for steel-rail

Model	MIG 500	MIG 502
Supply voltage	DC 24V	DC 24V
Traction power	32 kg	32 kg
Horizontal adjustment	20 mm	20 mm
Vertical adjustment	20 mm	20 mm
Speed mm/min.	35 ~ 930 mm/min.	35 ~ 930 mm/min.
Pivoting movement		0 ~ 65° /min
Dwelling time left/right		0 ~ 2,5 sek.
Oscillation angle		0 ~ ± 5°
Measurements (L x W x H) mm	324 x 300 x 237	320 x 340 x 230
Weight	12 kg	12 kg
Item no.	02.20.01.02010	02.20.01.02020

No problem for rising or falling seams

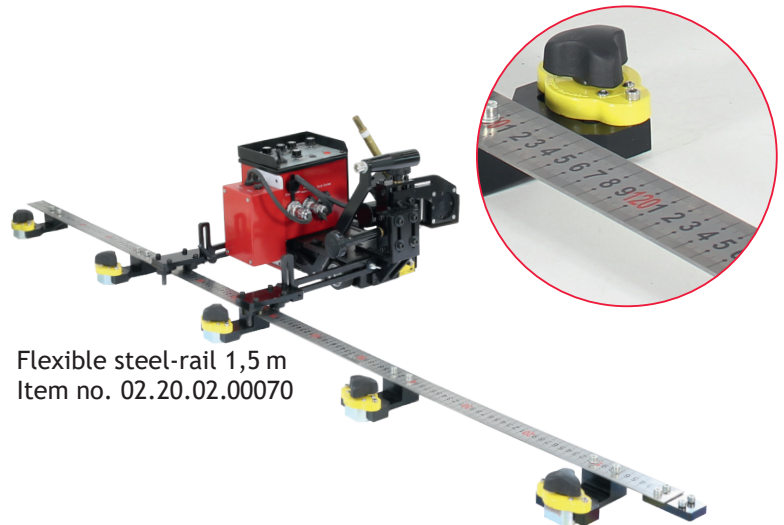
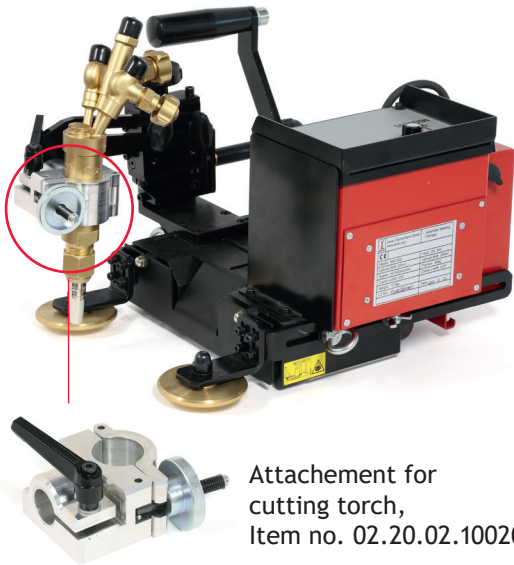


Welding tractors

MIG-500 and MIG 502 with magnet and battery

Features

- Robust, compact casing.
- Easy handling
- Welding in both driving directions possible.
- Continuous driving speed with digital display.
- MIG 502 is equipped with oscillator angle, speed, curves, central position, and pause times are adjustable.
- Also for oxy-acetylen cutting.



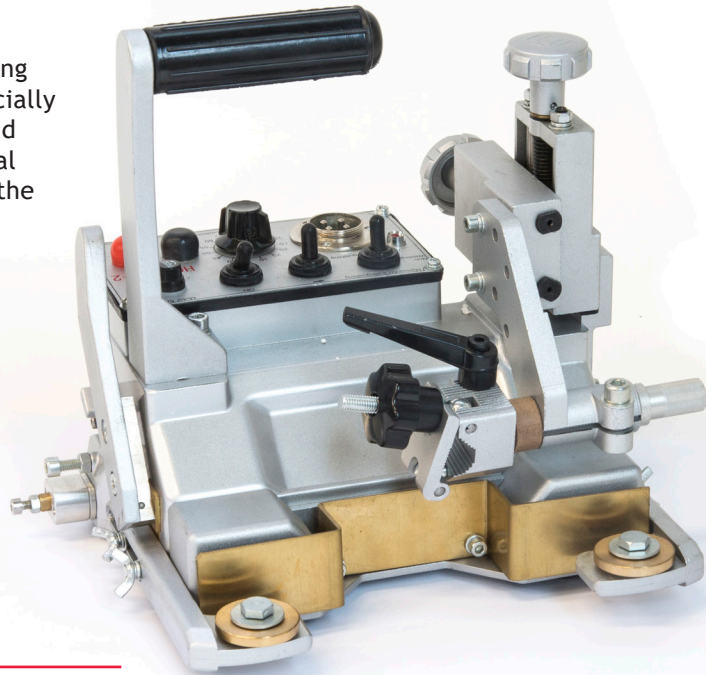
User interface of the MIG-500
and MIG-502 welding carriages

Welding tractors

MIG 1 A with battery

Welding with tractors - a clean solution

Welding tractors are used effectively for welding fillet weld joints in numerous variations. Especially long weldseams can be worked comfortably and cleanly with a welding tractor - without manual intervention thanks to the strong magnet and the precise guide wheels!



Features

- With high performance magnet
- Robust, compact casing.
- Extremely small and lightweight construction
- Low center of gravity with high traction (16 kg); **vertical moving possible.**
- Continous driving speed
- Easy handling with magnet release lever;
- Welds in both directions.
- Limit switch on both sides.

Scope of delivery:

- 1 Welding tractor
- 1 Battery charger

Optional:

- 1 Spare battery



Wheels for rail

Model	MIG 1A
Operating voltage Power supply	230 V/AC 24 V, 3,5A
Operating voltage tractor	AC 24V
Traction power	16 kg
Power	4-wheel drive
Adjustment range torch	horizontal angle 40° - 55° up/ down 40mm, right/left 40mm
Speed mm/min	100 - 650
Measurement (LxWxH) mm	280 x 260 x 265
Weight	7,6 kg
Item no.	02.20.01.00010

Welding tractors

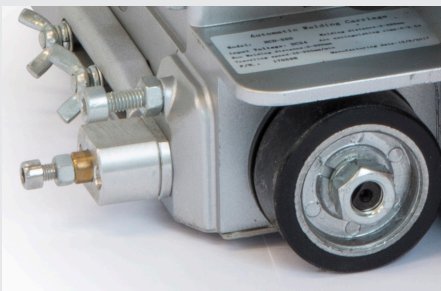
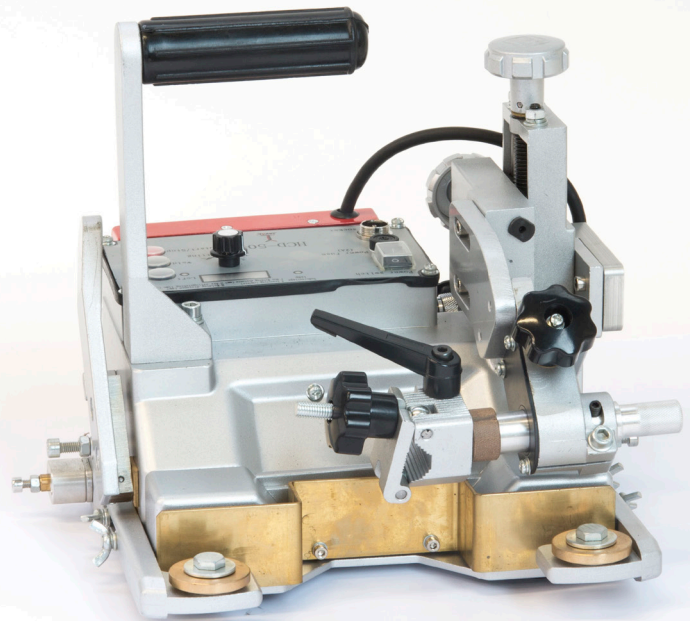
MIG 1 B with battery

A reliable partner

The MIG 1B with battery is mainly used in shipbuilding, bridge and locomotive construction, as well as in the steel and petrochemical industry. Automatic welding with a tractor improves the quality of the welds and virtually eliminates defective seams. Thanks to the limit switches on both sides of the MIG 1B, the tractor automatically stops when it reaches the end of the workpiece or encounters an obstacle on the side. Thus, multiple tractors can be operated by only one person at the same time easily.

Features

- Robust, compact casing.
- With high performance magnet
- Low center of gravity with high traction (16 kg); **vertical moving possible.**
- Easy handling with magnet release lever
- Welds in both directions..
- Application in horizontal fillet welding with wide range of welding speed control.
- Crater fills for a clean finish.
- Limit switch on both sides.
- Step welding with adjustable distance



Automatic limit switch for obstacle

Modell	MIG 1B
Supply voltage	DC 24 V
Traction power	20 kg
Power	4-wheel drive
Adjustment range torch	horizontal angle 40° - 55° up/ down 40mm, right/left 40mm
Speed mm/min	35 - 930
travel pause / welding travel mm	0 - 999
Measurement (LxWxH) mm	280 x 260 x 265
Weight	7,6 kg
Item no.	02.20.01.00020

Scope of delivery:

- 1 Welding tractor
- 1 Battery charger

Optional:

- 1 Spare battery

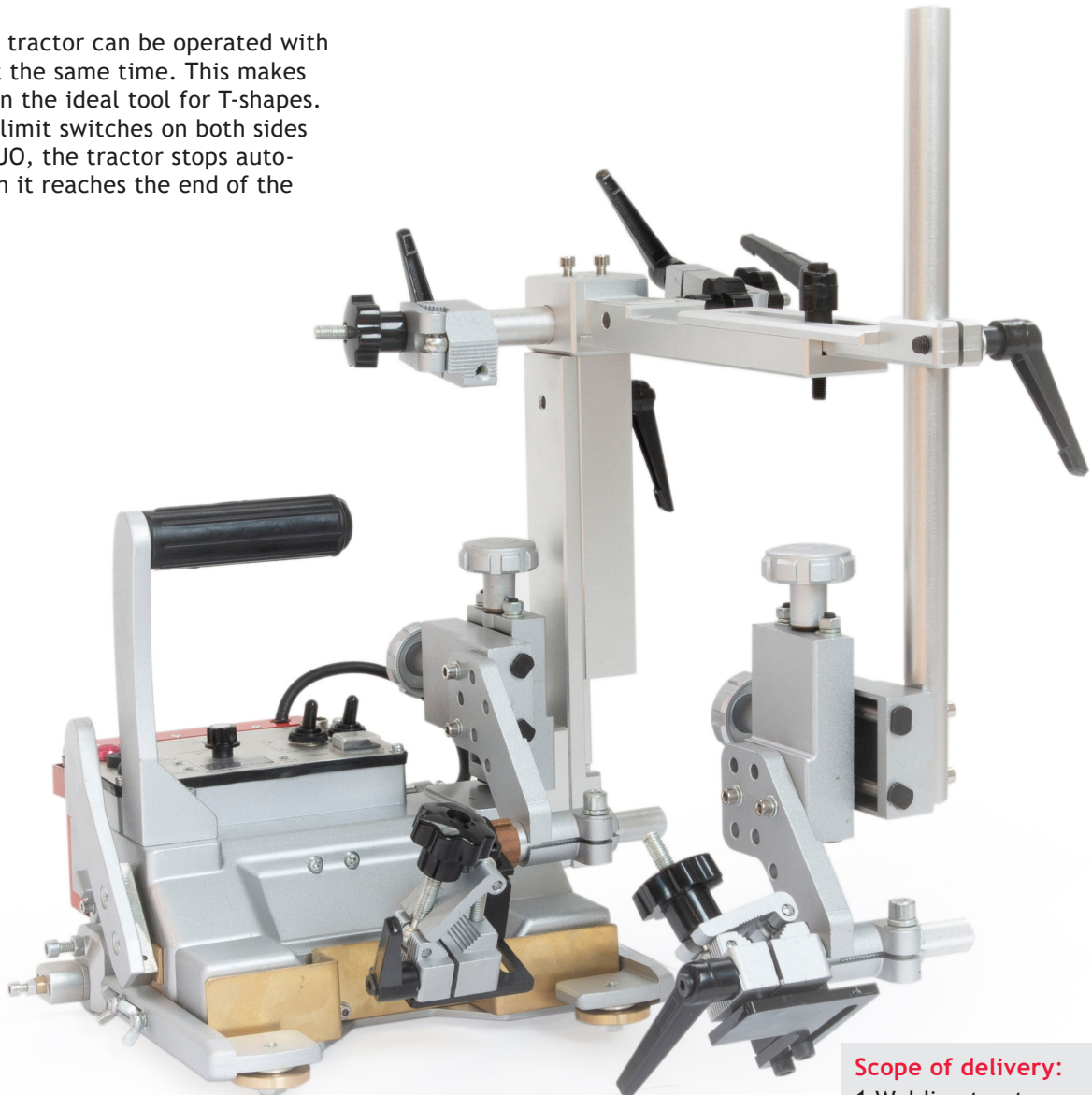


User Interface

Welding tractors

MIG-1DUO with two Torches

The MIG-1DUO tractor can be operated with two torches at the same time. This makes the Duo version the ideal tool for T-shapes. Thanks to the limit switches on both sides of the MIG-1DUO, the tractor stops automatically when it reaches the end of the workpiece.



Scope of delivery:
1 Welding tractor
1 Battery

Model	MIG 1DUO
Operating voltage Power supply	230 V/AC 24 V, 3,5A
Operating voltage tractor	DC 24V
Traction power	30 kg
Drive	4-wheel drive
Adjustment range torch	horizontal angle 40° ~55° up/ down 40mm, right/left 40mm
Speed mm/min	100 ~ 1500
Measurement (LxWxH) mm	517 x 280 x 555
Weight	12,8 kg
Item no.	02.20.01.00030



Display MIG-1DUO

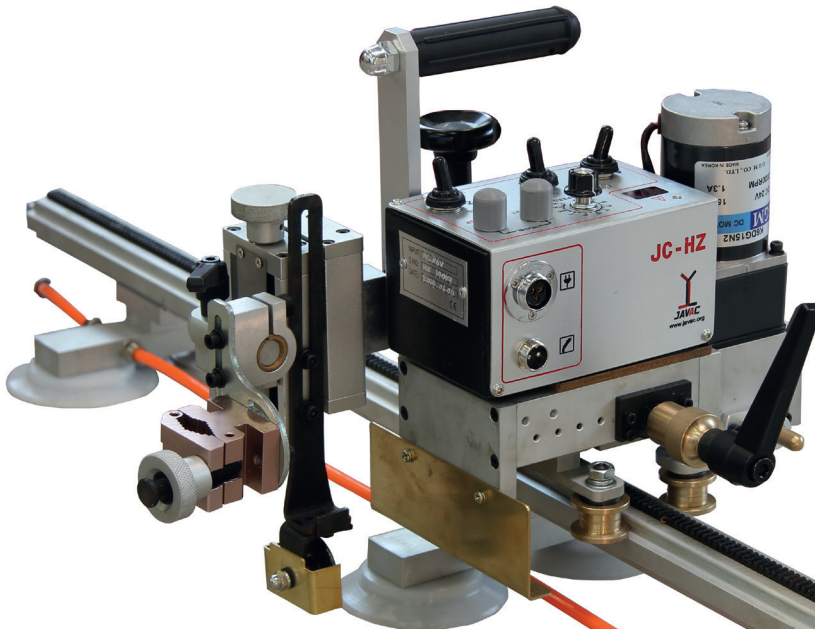
Welding tractors

MIG-100-HZ

Ideally for T-beam

With his two torch arms, you are able to weld both sides of a T-beam at the same time. Due to the magnetic rack rail the tractor can be also used on top of the T-beam. Increase your welding quality and halve your production time

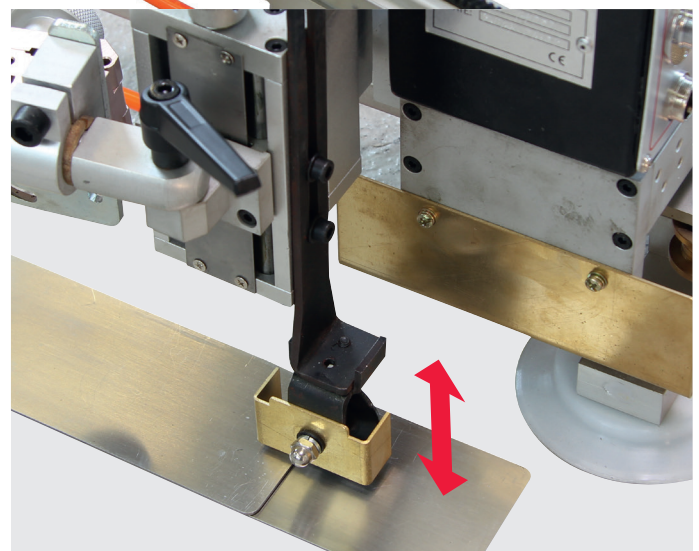
Tractor also available with automatic weld seam tracking! Our tractors can be adapted for various applications.



left: Carriage on vakuum rack-rail with one torch arm and mechanical height adjustment.

below: mechanical height adjustment for the regulation of the torch distance

Model	MIG-100-HZ
Supply voltage	AC 230V, 50 Hz
Size carriage	450 x 400 x 380 mm
Size rail	42 x 29,3 x 1000 mm
Carriage weight	9,5 kg
Rail weight	6,5 kg (incl. magnet)
Drive	gear wheel
Carriage speed	0 - 1040 mm/min
Adjustment range torch	up/down 30 mm
	left/right 30 mm
	working angle 45°
Movement direction	up/down, left/right
Incl. gear-rack	-
Item no.	72203120

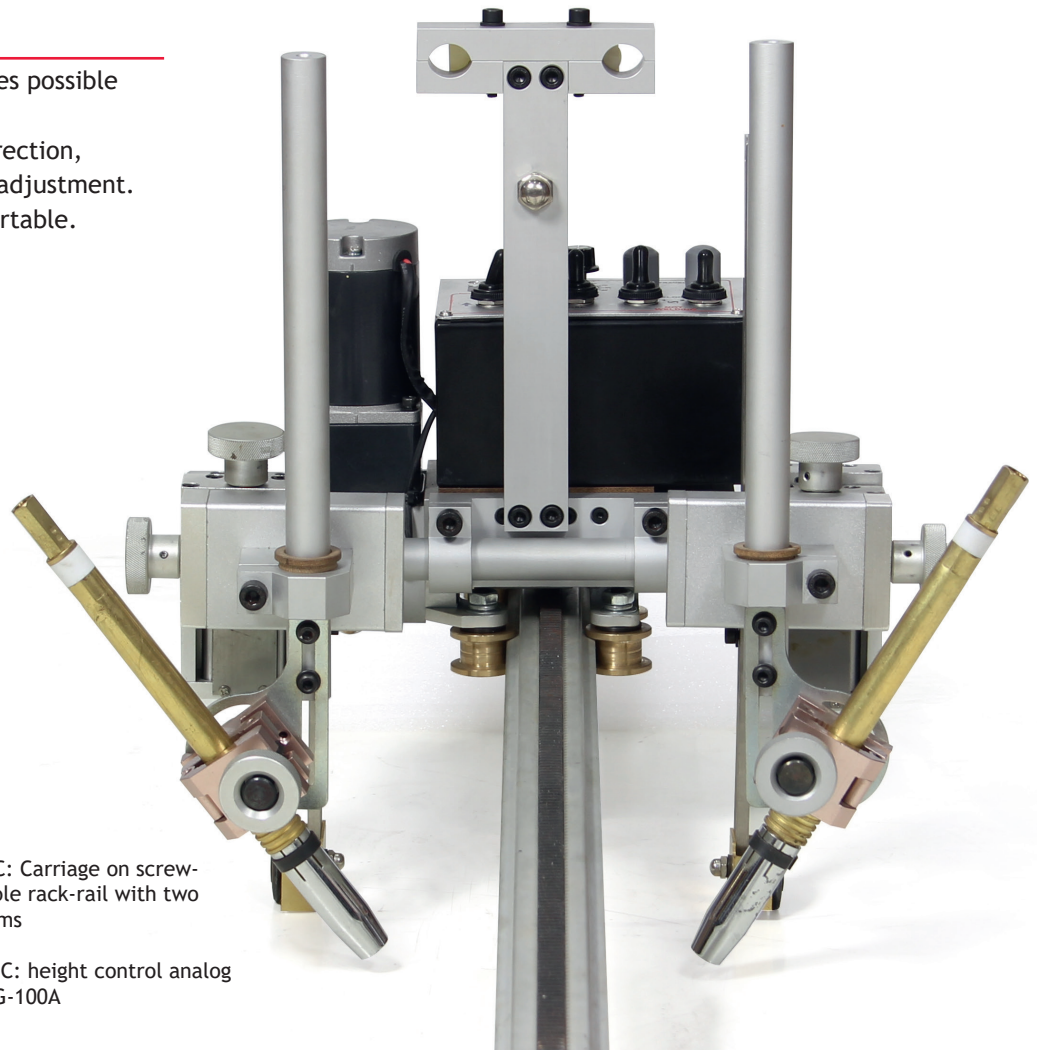


Welding tractors

MIG-2HZ

Features

- Simultaneous welding on both sides possible
- Traction higher than 10 kg.
- Easy operation: power, moving direction, welding mode, start/stop, speed adjustment.
- Robust, compact casing; easily portable.



Right PIC: Carriage on screw-mountable rack-rail with two torch arms

below PIC: height control analog from MIG-100A

Model	MIG-100-2HZ
Supply voltage	AC 230V, 50 Hz
Size carriage	450 x 400 x 380 mm
Size rail	42 x 29,3 x 1000 mm
Carriage weight	9,5 kg
Rail weight	6,5 kg (incl. magnet)
Drive	gear wheel
Carriage speed	0 - 1040 mm/min
Adjustment range torch	up/down 30 mm
	left/right 30 mm
	working angle 45°
Movement direction	up/down, left/right
Pause time left/right	0 - 5 s
Incl. gear-rack	Yes
Item no.	72203130



Welding tractors

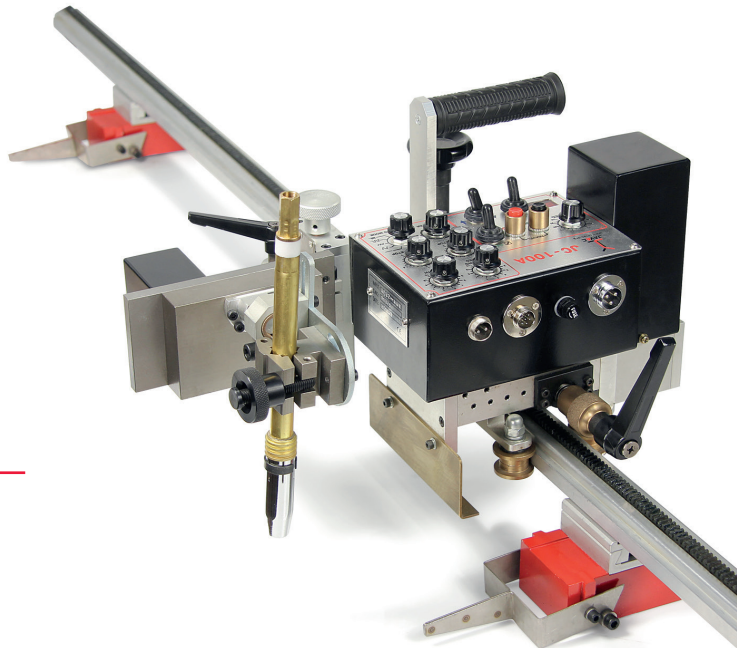
MIG-100A

The MIG-100A with linear oscillator is especially suitable for thick sheet welding. Thanks to the magnetic rail, vertical, horizontal as well as overhead welding jobs can be carried out. Standard rail length: 1,5 m.

MIG-100A is available both with and without linear oscillator. If necessary, it can be equipped even with an angle oscillator.

Features

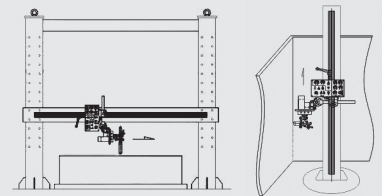
- Sturdy, compact casing.
- Permanent magnet (40 kg magnetic force) in aluminium rails for easy mounting on workpiece.
- Gear drive.
- Carriage has a traction of 20 kg.
- Digital display of welding speed.
- Adjustable welding current and voltage.
- Vertical and horizontal welding by installation of a clamp mounting.
- Oscillator angle, speed, curves, central position, and pause times are adjustable.



Model	MIG-100A
Supply voltage	AC 230V, 50 Hz
Carriage measurements	500 x 355 x 243 mm
Rail measurements	42 x 29, 3 x 1500 mm
Carriage weight	10 kg
Rail weight	6 kg (incl. magnet)
Drive	gear wheel
Carriage speed	0 - 1060 mm/min
Adjustment range torch	up / down 50 mm
	cw / ccw 150 mm
	operating angle 360°
Oscillator speed	0 - 2300 mm/min
Movement direction	up / down/left/right
Oscillator width	0 - 35 mm
Dwelling time left/right	0 - 2 s
Central position	± 5 mm
Item no. with oscillator	72203110
Item no. without oscillator	72203100

Scope of delivery:

- 1 Welding tractor
- 1 Transformer without rail



Note



Three-leg Support Block

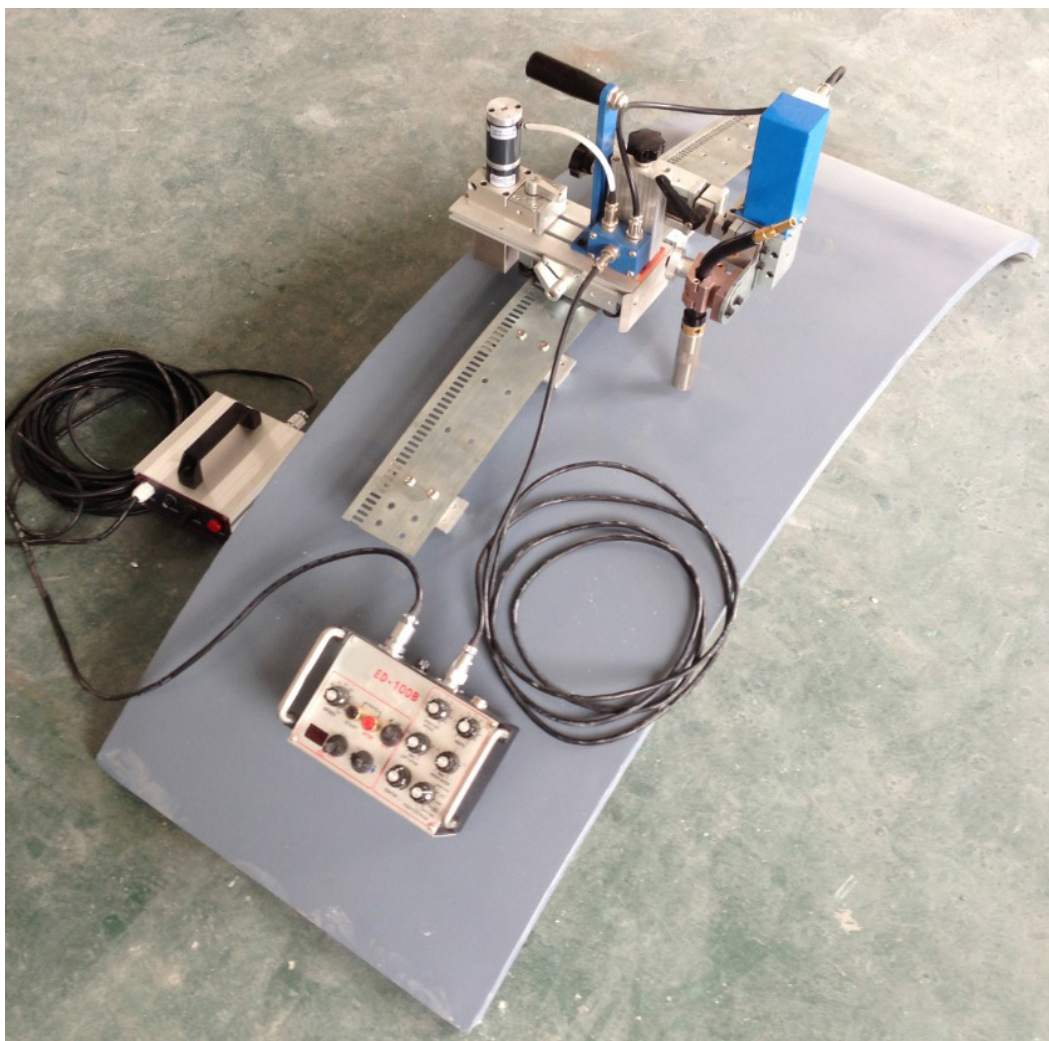
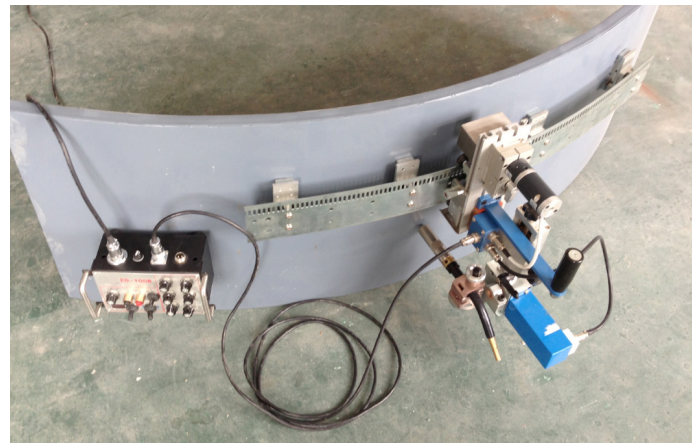
Welding tractors

MIG-100B-P

With the MIG-100B-P you can automatically weld, so the quality of welds is improved and faulty seams virtually eliminated. Thanks to the limit switches on both sides of the MIG-100B-P, the tractor stops automatically when it reaches the end of the workpiece or meets an obstacle on the side.


Features

- Robust, compact housing.
- Driving via gear wheel.
- Digital display of welding speed.
- Welding current and voltage are adjustable.
- Vertical and horizontal welding by installing the clamp.
- Oscillator angle



Welding tractors

MIG-100B-P

Model	MIG-100B-P
Tractor	
Measurement (L x W x H)	380 x 160 x 310 mm
Weight	7,5 kg
Drive	Rack Drive
Torch movement horizontal	60 mm (manually)
Torch movement vertical	60 mm (manually)
Operate angle	45°
Proceed angle	10°
Control box	
Power	AC 26V (Adapter)
Measurement (L x W x H)	210 x 140 x 125 mm
Weight	1,95 kg
Function	Power Switch
	Power-LED
	Start/Stop
	Running Speed 0 – 990 mm/min
	Running Direction right/left
	Running Direction up/down
	Welding Start/Stop
	Swing range 8°
	Swing mode selection 
	Swing speed 0 to 3,5 u/min
	Center move 3°
Magnetic Rail	
Measurement (L x W x H)	900 x 92 x 2mm
Material	65Mn
Bending radius	R ≥ 1,5 m
Weight	2,1 kg
Adapter	
Input/Output	AC 230V/AC 36V
Measurement (L x W x H)	200 x 150 x 130 mm
Weight	2,4 kg (without cable)

Scope of delivery:

- 1 Welding tractor
- 1 Transformer

Optional:

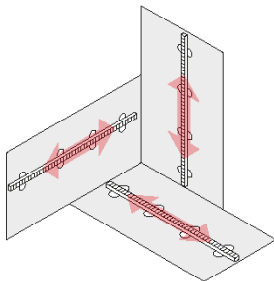
- 1 Rail 1,8 m

Welding tractors

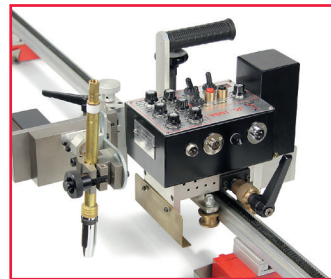
Accessories

Moving in each direction

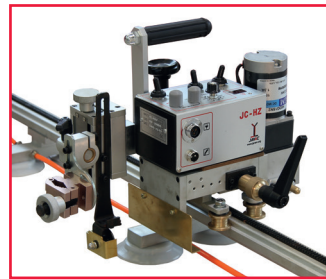
With the rack rail you can move safe and smoothly in any direction. However you take magnet or vakuum attachment your direction and speed will be constant.



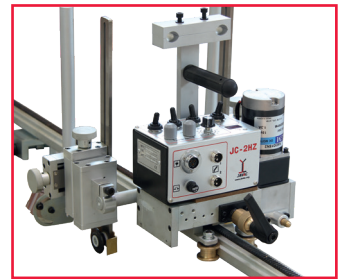
Suitable for all welding machines. Applicable only in a straight line.



Compatible to MIG-100 A



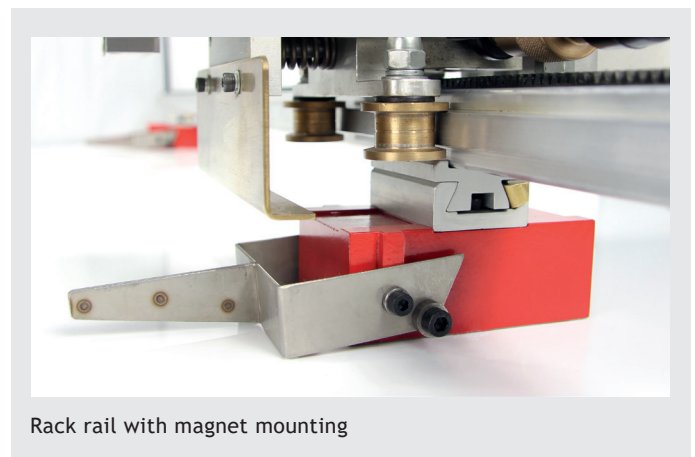
Compatible to MIG-100 HZ



Compatible to MIG-100 2HZ

Model	Magnetic-rack rail, permanet mag.
Length	1,5 m
Item no	72203105

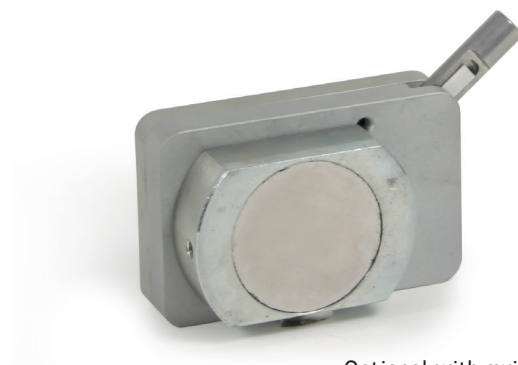
Model	Magnetic-rack rail, switch mag.
Length	1,5 m
Item no	72203106



Rack rail with magnet mounting

Model	Rack-rail, screw clamp
Length	1,5 m
Item no	

Model	Switch magnet for rail
Item no	72203322



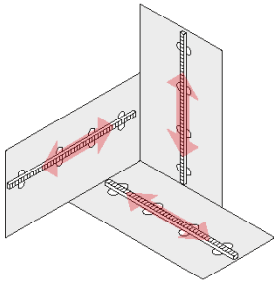
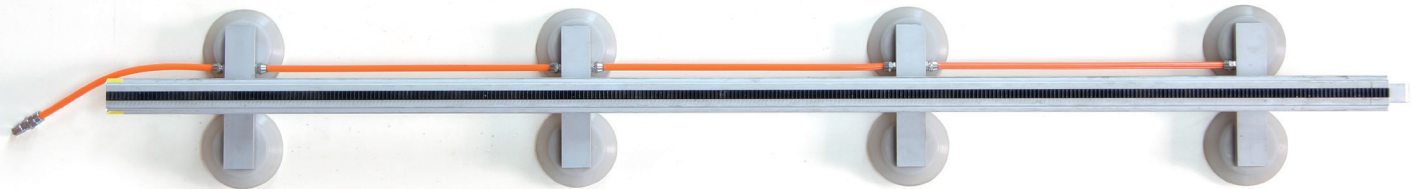
Optional with switch magnet with high holding force and easy ON/OFF mechanical system.

Welding tractors

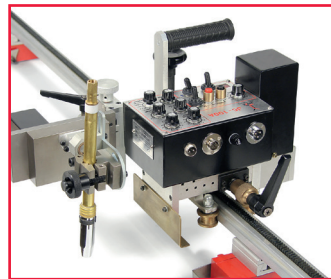
Accessories

Moving in each direction

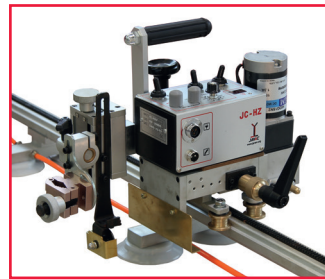
With the rack rail you can move safely and smoothly in any direction. However you take magnet or vakuum attachment, your direction and speed will be constant.



Suitable for all welding machines. Applicable only in a straight line.



Compatible to MIG-100 A



Compatible to MIG-100 HZ



Compatible to MIG-100 2HZ

Model	Vakuum-rack rail
Length	1,5 m
Item no	72203305

Model	Vakuum pump
Power	for up to two racks
Item no	72203300



ECO-S Line Positioners

Welding Positioner ECO-S100

Features

- Tilting range up to 90° manually infinitely adjustable via crank handle
- Foot switch Start/Stop.
- Switch for cw/ccw turning.
- Rotation time adjustable.
- The turntable speed is adjustable from 0,5 to 5 U/min.
- Controlling of the welding machine by integ. control system
- 350A ground connection

up to
100 kg



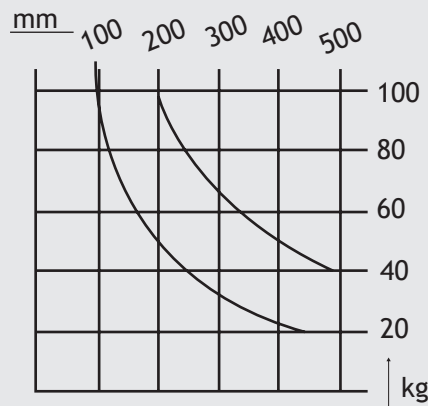
Model	ECO S100
Supply voltage	1PH/230 V – 50/60 Hz DC PCB
Rotation motor	125 W
hollow shaft ø	45 mm
Tilting range	0° - 90°
Worktable diameter	400 mm
Rotation speed	0,5 - 5 rpm
Max. horizont load	100 kg
Max. vertical load	50 kg
Tilting methode	manuell
horizontal height	505 mm
Center height of tilt	390 mm
Weight	55 kg
Item no.	02.30.01.00010

Scope of delivery:

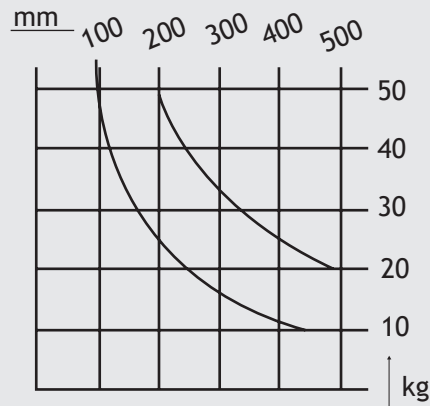
1 control system (integ.)
1 Foot switch

ECO-S Line Positioners

Welding Positioner ECO-S100



HORIZONTALE POSITION

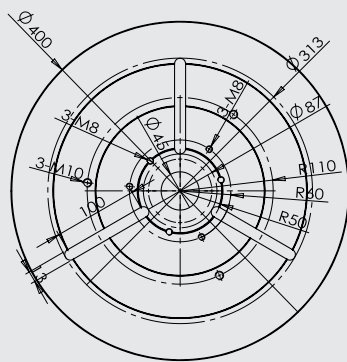


VERTIKALE POSITION

Diagram: ECO S100

When choosing your positioner, please consider:

- the center of gravity of your workpiece
- the weight of your tensioning device(chuck)



Turntable plate ECO S100 and ECO S200

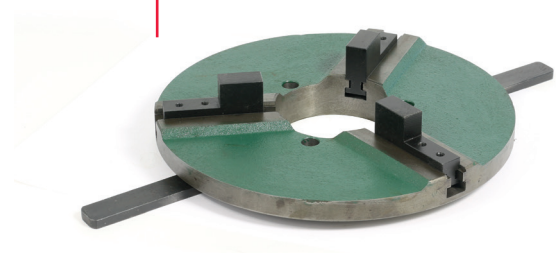
Note

Suitable quick action chuck for ECO-S100
Chuck 200JW*, Chuck 300JW and Chuck 400 JW

Page: 121

* for the Chuck 200JW you need the adapter plate with the
Item no: 91919125

Chuck 200 JW
Item no.: 91919110



ECO-Line Positioners

Welding Positioner ECO-S200

Features

- Tilting range up to 90° manually infinitely adjustable via crank handle
- Foot switch Start/Stop.
- Switch for cw/ccw turning.
- Rotation time adjustable.
- The turntable speed is adjustable from 0,5 to 5 U/min.
- Controlling of the welding machine by integ. control system
- 350A ground connection

with
45 mm
hollow shaft

up to
200 kg



Model	ECO S200
Supply voltage	1PH/230 V – 50/60 Hz DC PCB
Rotation motor	200 W
hollow shaft ø	45 mm
Tilting range	0° - 90°
Worktable diameter	400 mm
Rotation speed	0,5 - 5 rpm
Max. horizont load	200 kg
Max. vertical load	100 kg
Tilting methode	manual
horizontal height	505 mm
Center height of tilt	390 mm
Weight	55 kg
Item no.	02.30.01.00055

Scope of delivery:

- 1 control system (integ.)
- 1 Foot switch

ECO-S Line Positioners

Welding Positioner ECO-S200

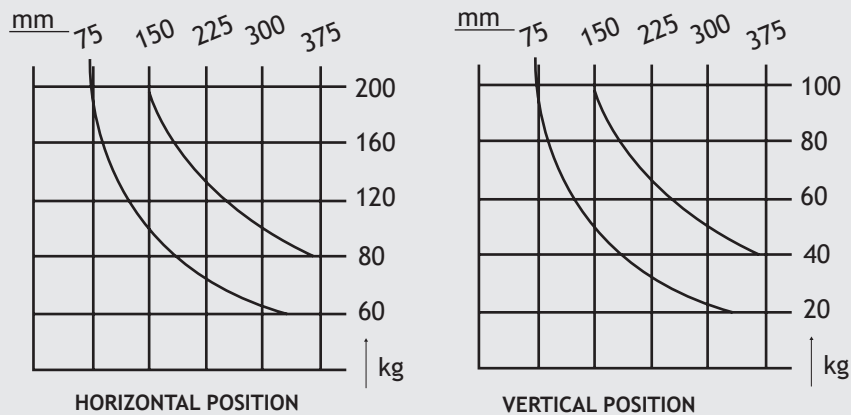
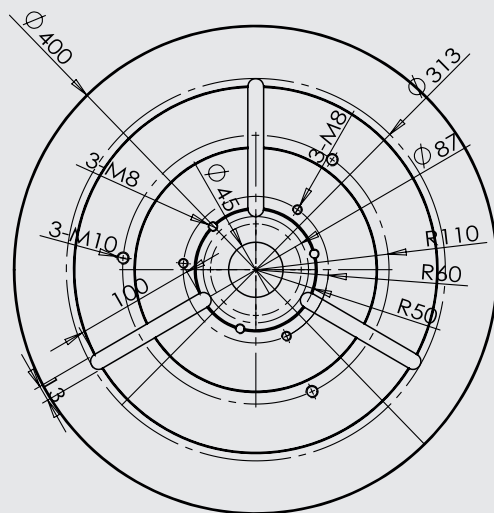


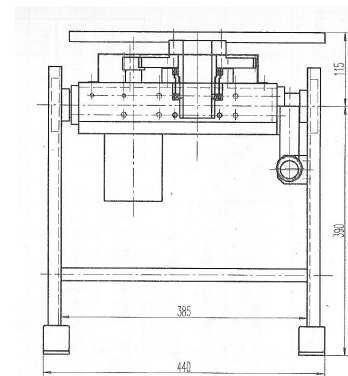
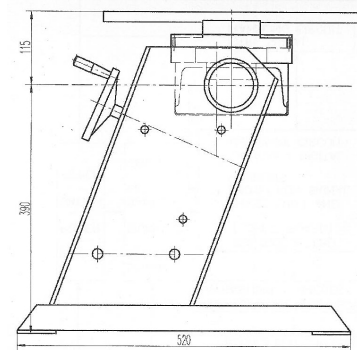
Diagram: ECO S200

When choosing your positioner, please consider:

- the center of gravity of your workpiece
- the weight of your tensioning device(chuck)



Turntable plate ECO S100 and ECO S200

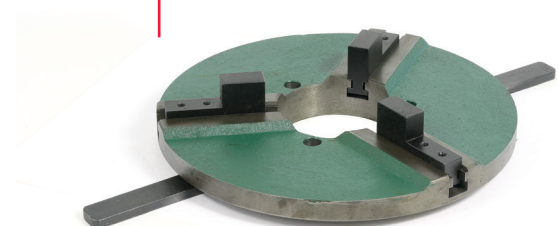


Note

Suitable quick action chuck for ECO-S200
Chuck 300JW

Page: 121

Chuck 300 JW
Item no.: 9191919111
PC: C



ECO-S Line Positioners

Welding Positioner ECO-S300

Features

- Tilting range up to 90° manually infinitely adjustable via crank handle
- Foot switch Start/Stop.
- Switch for cw/ccw turning.
- Rotation time adjustable.
- The turntable speed is adjustable from 0,2 to 2,5 U/min.
- Controlling of the welding machine by integ. control system
- 350A ground connection

up to
300 kg

with
90 mm
hollow shaft



Model	ECO S300
Supply voltage	1PH/230 V – 50/60 Hz DC PCB
Rotation motor	200 W
hollow shaft ø	90 mm
Tilting range	0° - 90°
Worktable diameter	500 mm
Rotation speed	0,2 - 2,5 rpm
MaxMax. horizont load	300 kg
Max. vertical load	100 kg
Tilting methode	manual
horizontal height	650 mm
Center height of tilt	445 mm
Weight	90 kg
Item no.	02.30.01.00065

Scope of delivery:

- 1 control system (integ.)
- 1 Foot switch

ECO-S Line Positioners

Welding Positioner ECO-S300

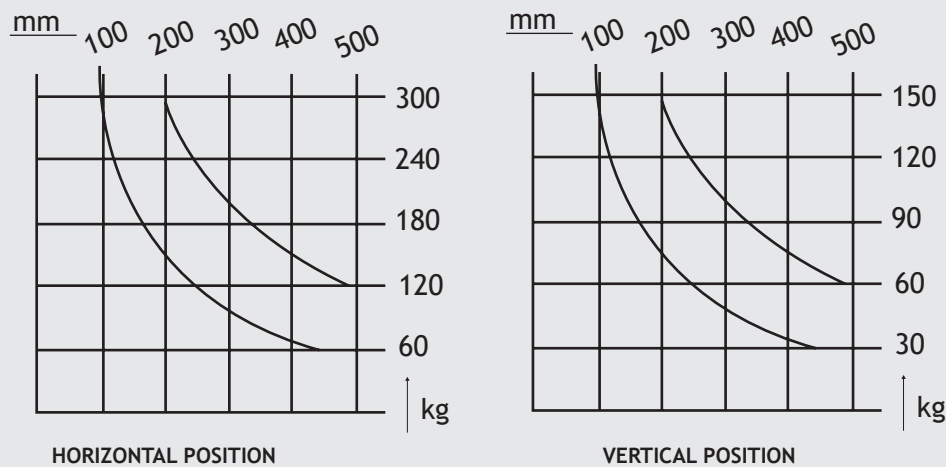
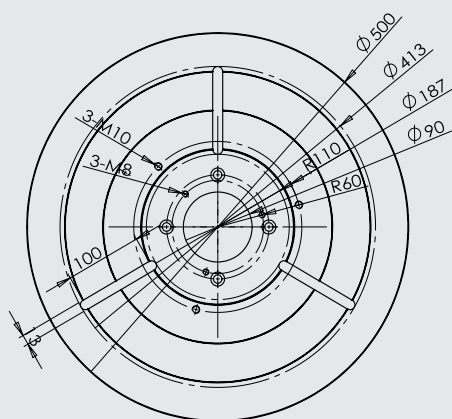


Diagram: ECO S300

When choosing your positioner, please consider:

- the center of gravity of your workpiece
- the weight of your tensioning device(chuck)



Turntable plate ECO S300

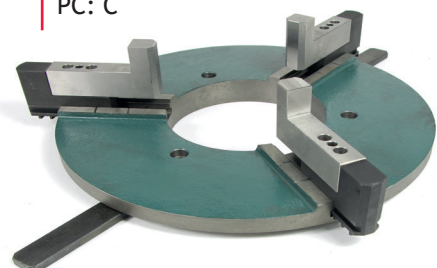
Note

Suitable quick action chuck for ECO-S300
Chuck 200JW, Chuck 300JW and Chuck 400 JW

Page: 121

* for the Chuck 200JW you need the adapter plate with the
Item no.: 91919125

Chuck 400 JW
Item no.: 919191116
PC: C



ECO-Line Positioners

Welding Positioner PRO 08

Features

- The turntable PRO 08 has a precise drive unit with faceplate that is mounted on a stable floor stand.
- Workpieces can be positioned over a pivoting range of 0° – 90°.
- The rotary motion occurs via a direct current gearmotor with worm gear and is infinitely adjustable.
- Table diameter: 300 mm. The surface is chrome-plated as a protection against weld spatters.
- The control panel is easy to understand and operate.
- Start/stop via location-independent foot switch.
- Adjustment of turning speed and rotating direction directly via the machine.
- HF-protected.



Scope of delivery:
1 Control (integrated)
1 Foot switch

Model	PRO 08
Supply voltage	AC 230 V/50 Hz
Ground connection	300 A/100 %
Tilting range	0° – 90°
Table diameter	300 mm
Hollow shaft	no
Mounting hole circle Ø	100mm up to max. 264 mm
Speed	0,7 – 7 rpm
Rotating directions	cw/ccw
Max. load A	80 kg
Measurements (L x W x H) mm	450 x 330 x 360
Weight	36 kg
Item no.	71801119



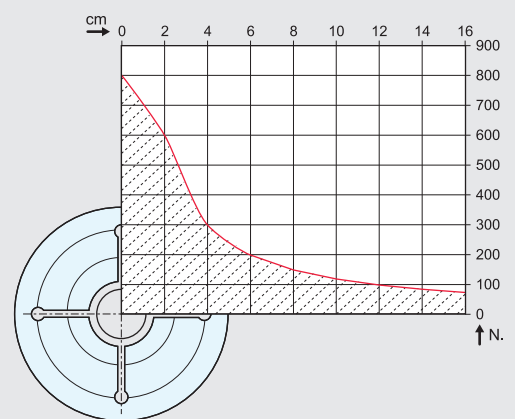
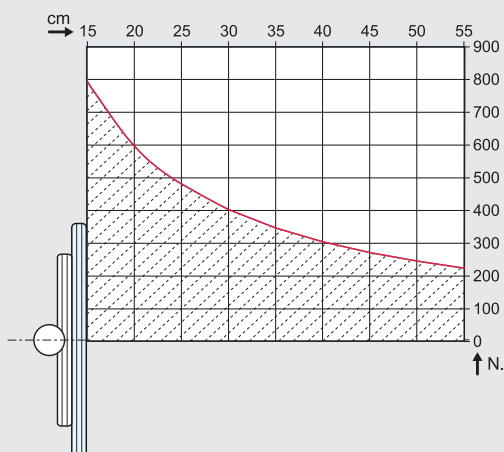
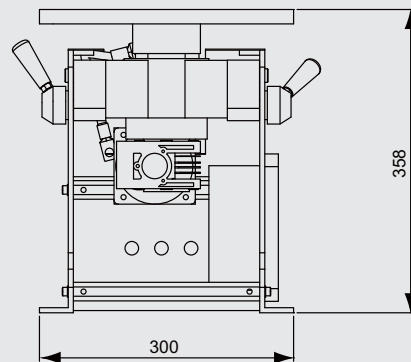
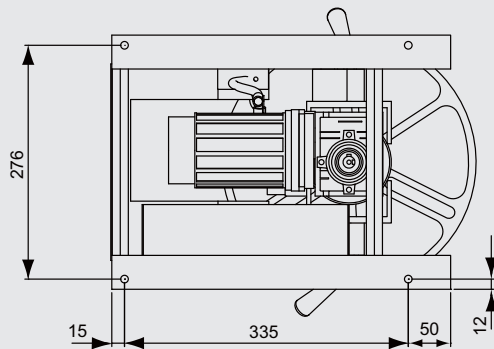
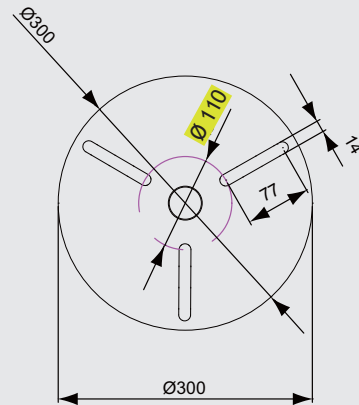
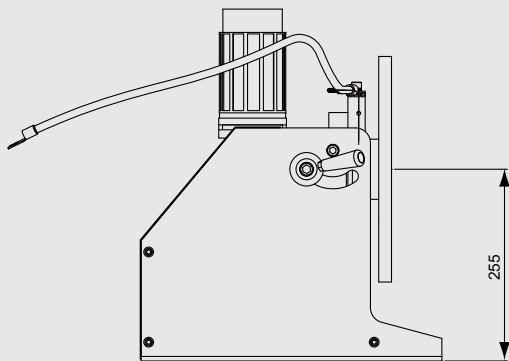
Note

suitable for Three-jaw Chuck 160D and Chuck 200D.



ECO-Line Positioners

Welding Positioner PRO 08



When choosing your positioner, please consider

- the center of gravity of your workpiece
- the weight of your tensioning device (chuck)

PRO-Line Positioners

Welding Positioners PRO 1

With 20 mm hollow shaft

Features

- The turntable PRO 1 has a precise drive unit with face-plate that is mounted on a stable floor stand.
- The tilting bracket offers the possibility to put the work-piece via a tilting range of 0° – 90 °into the required welding position.
- The rotary motion occurs via a direct current gearmotor with worm gear and is infinitely adjustable.
- Table diameter: 300 mm. The surface is chrome-plated as a protection against weld spatters.
- The control panel is easy to understand and operate.
- Start/stop via location-independent foot switch.
- Adjustment of turning speed and rotating direction directly via the machine.
- HF-protected.



Scope of delivery:

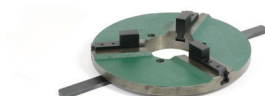
- 1 Control system (integrated)
- 1 Foot switch

Model	PRO 1
Supply voltage	AC 230 V/50 Hz
Ground connection	300 A/100 %
Tilting range	0° – 90°
Table diameter	300 mm
Hollow shaft	20 mm
Mounting hole circle Ø	100mm up to max. 264 mm
Speed	A: 0,2 – 2 rpm B: 1,2 – 12 rpm
Rotating directions	cw/ccw
Max. load A	100 kg
Measurem. (L x W x H) mm	480 x 325 x 470
Weight	50 kg
Item no.	71801118



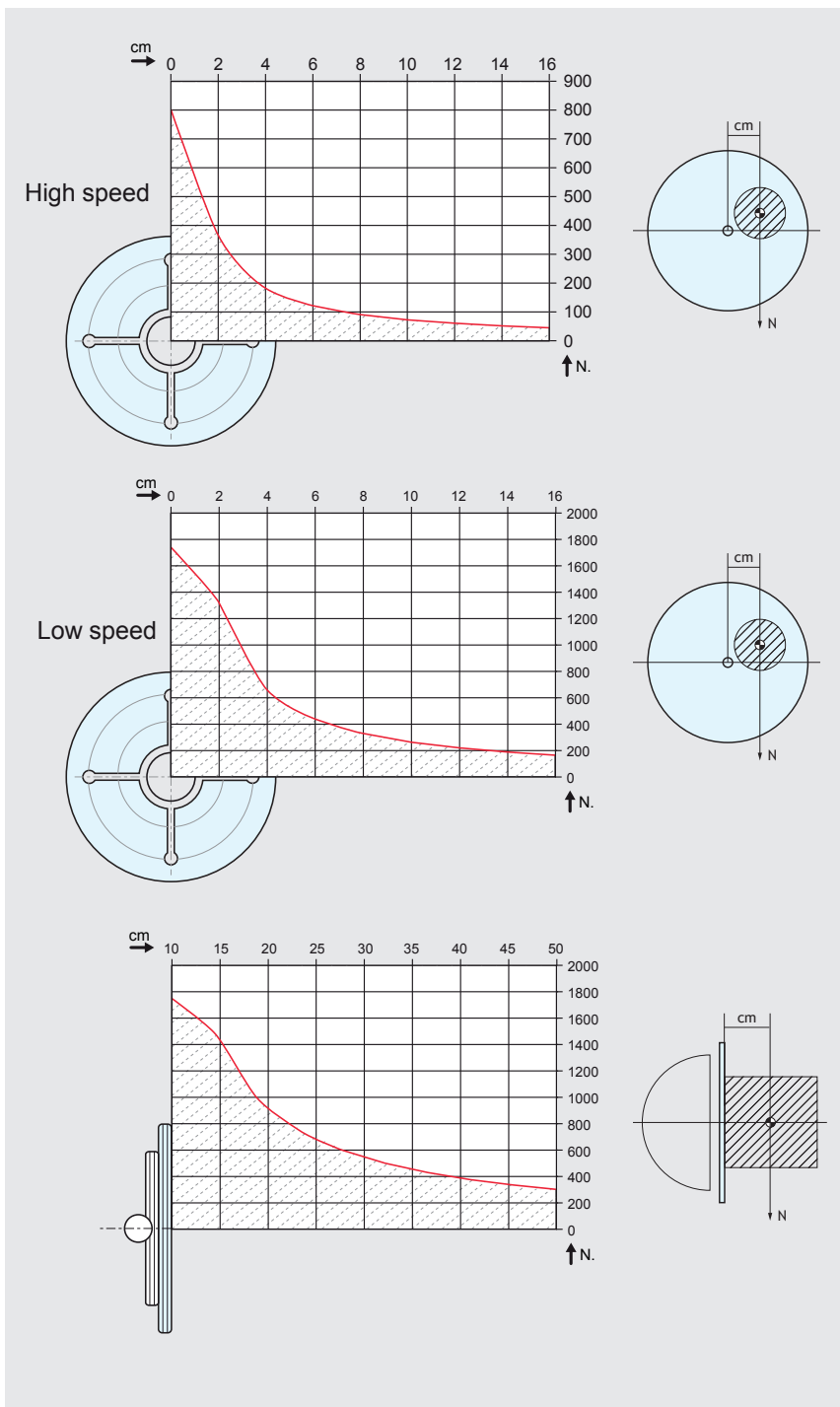
Note

suitable for Three-jaw Chuck 160D, Chuck 200D and Cuck 300 JW.



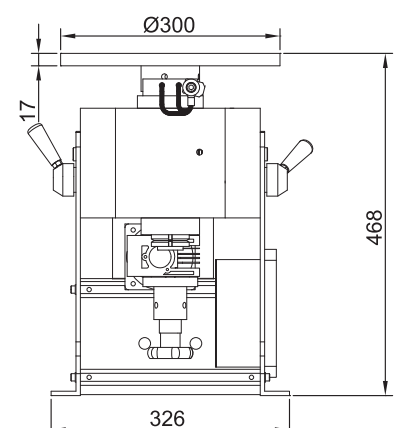
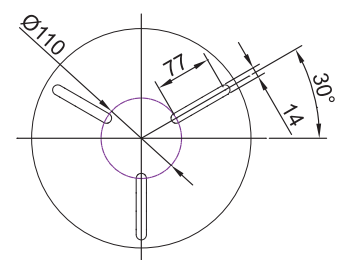
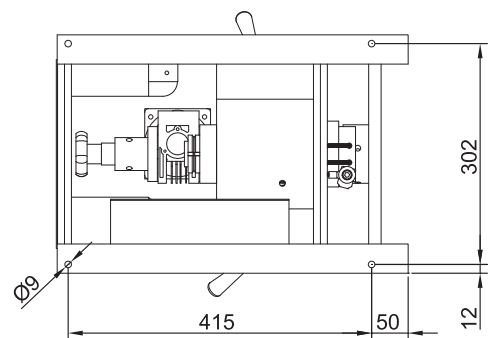
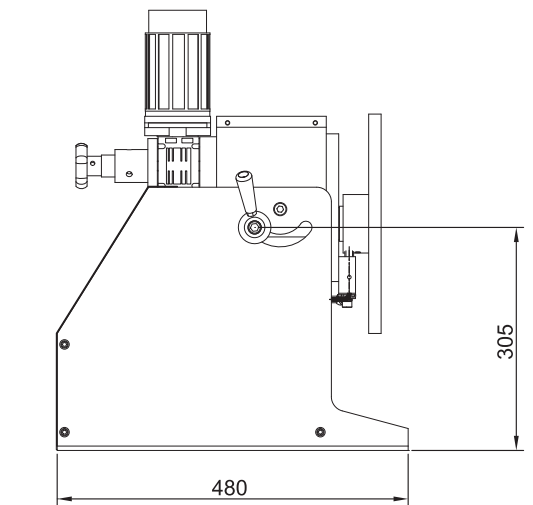
PRO-Line Positioners

Welding Positioners PRO 1



When choosing your positioner, please consider

- the center of gravity of your workpiece
- the weight of your tensioning device (chuck)



Light Automation

Circumferential Seams Device

Imagine the configuration for your welding tasks individually

With low costs enables the rotary table to expand, up to semi-automatic machines with stand for welding torch. Here are some examples of our most frequently used combinations.

Suitable controllers here (see from page 94)

COM 2800S

COM 3800

SPS 1302

PRO2/28-SR60
without controller:

PRO4/28-SR60
without controller:

PRO2/28-ST60
without controller:

PRO4/28-ST60
without controller:

PRO2/28-LT60
without controller:

PRO4/28-LT60
without controller:

PRO2/28-VSTH20
without controller:

PRO4/28-VSTH20
without controller:

PRO2/28-LR60
without controller:

PRO4/28-LR60
without controller:



Productvideo

Light Automation

Circumferential Seams Device



TE-CAL50	Linear slide (50 mm) Connection: 50 mm
TE-CAL75	Linear slide (75 mm) Connection: 75 mm
TE-CAL100	Linear slide (100 mm) Connection: 100 mm
TE-C	2-axis-clamp holder (PVC) for MIG-/TIG torch
TE-C1	2-axis-clamp holder (Bakelite) for TIG SR-18 & 26

	2-axisgear rack with handwheel (100 mm)
TE-XYR	X-Range: 100 mm Y-Range: 100 mm

TE-L75	Support (75 mm) Stroke: 75 mm
TE-L100	Support (100 mm) Stroke: 100 mm

COM Turntable control series
(here COM2800)

Pro 2/3 Turntable

PL-R	Support block for 25 - 280 mm
------	----------------------------------

AM1	5/2-Way com- pressed air valve
AA1	5/2 magnet valve single
AA2	5/2 magnet valve double

PL-300 L	Aluminium base frame (with dovetail guide) Max. workpiece length: 300 mm Total length of rail: 1.040mm (with: LR-Series)
PL-600 L	Aluminium base frame (with dovetail guide) Max. workpiece length: 600 mm Total length of rail: 1.340mm (with: LR-Series)
PL-1000 L	Aluminium base frame (with dovetail guide) Max. workpiece length: 1.000 mm Total length of rail: 1.740 (with: LR-Series)
PL-1500 L	Aluminium base frame (with dovetail guide) Max. workpiece length: 1.500 mm Total length of rail: 2.240mm (with: LR-Series)
PL-2000 L	Aluminium base frame (with dovetail guide) Max. workpiece length: 2.000 mm Total length of rail: 2.740mm (with: LR-Series)
PL-2500 L	Aluminium base frame (with dovetail guide) Max. workpiece length: 2.500 mm Total length of rail: 2.830mm (with: LR-Serie)

PL-T	Base frame mounting of: TE-XYR or TE-L
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FS-1	Footswitch Start/Stop
------	--------------------------

SPS	SPS Multifunctional control
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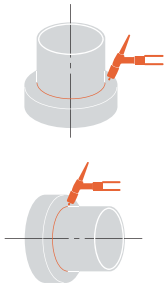
PL-CL100	Pneumatic-tailstock Connection: 100 mm
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PRO1A-26	Constant centring taper Drm.: 5-26 mm
PRO1A-56	Constant centring taper Drm.: 8-56 mm
PRO1A-106	Constant centring taper Drm.: 53-106 mm



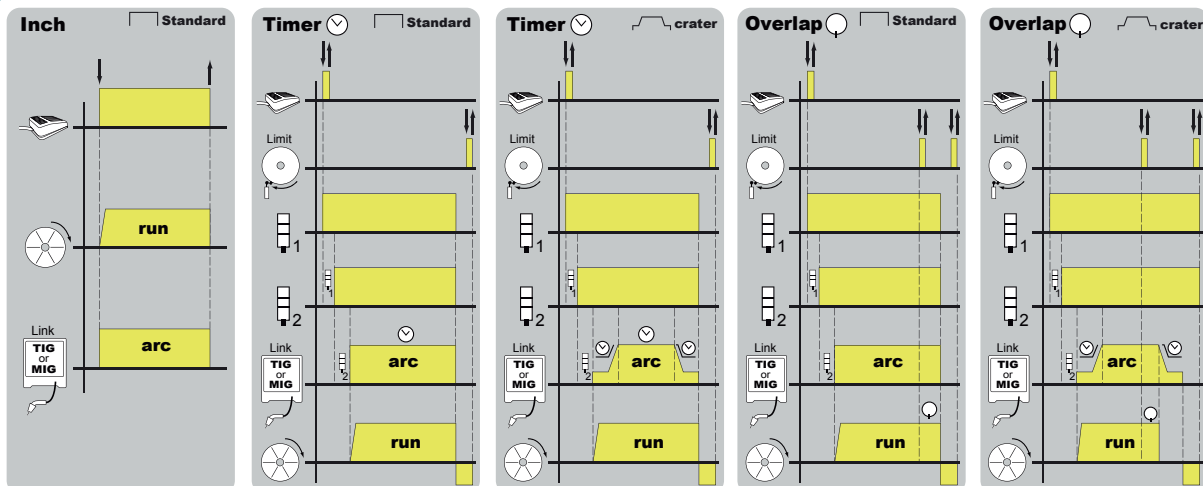
Light Automation

Circumferential Seams Device PRO2/28-ST60



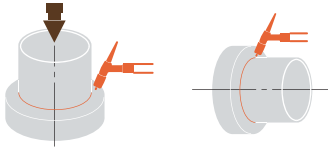
Model	PRO2/28-ST60
Supply voltage	AC 230V/50Hz/3A DC 90V/150W
Hollow shaft	60 mm
Table diameter	340 mm
Tilt angle	0° – 90°
Welding current	300A/ 100%
Rotating speed	0,6 – 6 rpm
Load capacity	200 kg
Torque	65 kg/cm
Rotating direction	cw/ccw
Overlap timer (fixation point)	0 – 99,9 sec.
Timer (fixation point)	0 – 999 sec.
Time control (fixation point)	0 – 99,9 sec.
Start/crater filling	0 – 99,9 sec.
Brake	magnetic
HF-protection	100%
Start	Foot switch (2M)
Weight	182 kg
Item no.	71801166.030

1	TE-C	2-axis-clamp holder (PVC) for MIG/TIG torch
2	TE-CAL50	Linear slide (50 mm); connection 50 mm
3	TE-XYR	2-axis-gear rack with handwheel (100 mm); X/Y-range 100mm
4	TE-L75	Support (75 mm);stroke 75 mm
5	PL-T	Base frame; mounting for TE-XYR or TE-L
6	PL-600	Aluminium base; max. length workpiece: 600 mm
7	COM 2800	Control
8	PRO 2	Welding positioner; max. load 160kg
9	FS-1	Foot switch

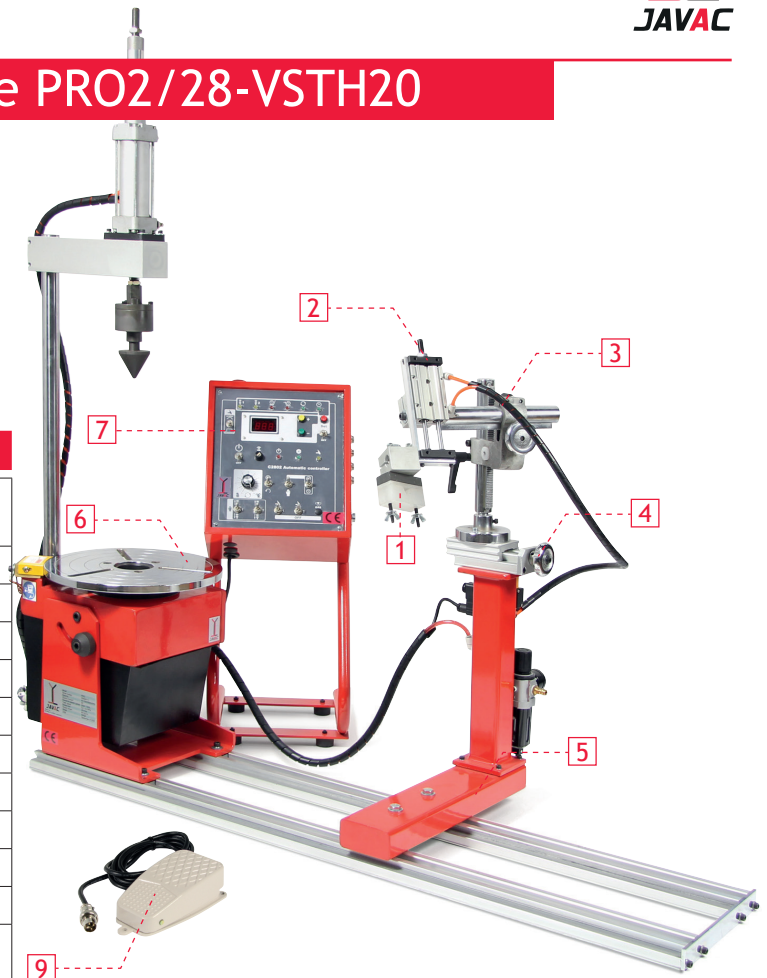


Light Automation

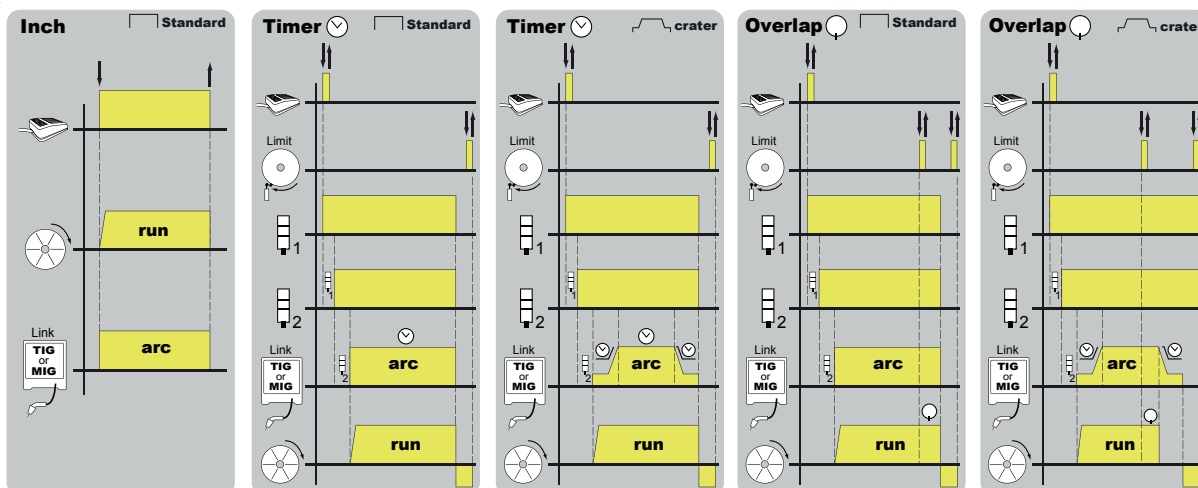
Circumferential Seams Device PRO2/28-VSTH20



Model	PRO2/28-VSTH20	PRO4/28-VSTH20
Supply voltage	AC 230V/50Hz/6A DC 90V/150W	AC 230V/50Hz/8A DC 90V/150W
Hollow shaft	60 mm	120 mm
Table diameter	340 mm	400 mm
Tilt angle	0° - 90°	
Welding current	300A/ 100%	
Rotating speed	0,6 - 6 rpm	0,2 - 2,0 rpm
Load capacity	200 kg	400 kg
Torque	65 kg/cm	200 kg
Workpiece diameter	400 mm	460 mm
Workpiece length	200 mm	200 mm
Rotating direction	cw/ccw	
Overlap timer (fixation point)	0 - 99,9 sec.	
Timer (fixation point)	0 - 999 sec.	
Time control (fixation point)	0 - 99,9 sec.	
Start/crater filling	0 - 99,9 sec.	
Welding arc	standard/crater	
Brake	magnetic	
HF-protection	100%	
Start	Foot switch (2M)	
Weight	112 kg	138 kg
Item no.	71801166.020	



1	TE-C	2-axis-clamp holder (PVC) for MIG/TIG torch
2	TE-CAL50	Linear slide (50 mm); connection 50 mm
3	TE-XYR	2-axis-gear rack with handwheel (100 mm); X/Y-range 100mm
4	TE-L75	Support (75 mm);stroke 75 mm
5	PL-T	Base frame; mounting for TE-XYR or TE-L
6	VPOS1-H20	Positioner (200 mm); max. workpiece length: 350 mm
7	COM 2800	Control
9	FS-1	Foot switch



Modular Positioner Systems

Welding Positioner PRO 2

With 60 mm hollow shaft

Features

- Tilting and clamping from 0° to 90°.
- Start/stop via location-independent foot switch.
- Rotating direction adjustable: cw/ccw.
- Rotating time adjustable.
- 60 mm hollow shaft.
- Table diameter: 340 mm. The surface is chrome-plated as a protection against weld spatters.
- Table speed adjustable from 0,6 – 6 rpm.
- Welding machine can be actuated via turntable control.
- Mass contact transmits 300A/100%.
- Turntable and control unit are separated.
- HF-protected.



Model	PRO 2
Supply voltage	AC 230 V/50 Hz
Ground connection	300 A/100 %
Tilting range	0° – 90°
Table diameter	340 mm
Speed	0,6 – 6 rpm
Rotating directions	cw/ccw
Max. load horizontal	160 kg
Hollow shaft	60 mm
Mounting hole circle Ø	114mm up to max. 302 mm
Measurem. (L x W x H) mm	385 x 340 x 375
Weight	56 kg
Item no.	02.30.01.10110 (old:71801114)

Max. load of PRO 2 in horizontal position:
160 kg



COM-1000: easy control start/stop, cw/ccw
 COM-1802: easy control start/stop, cw/ccw
 COM-1803S: easy control start/stop, cw/ccw and with Speeddisplay
 COM-1800 VSF: with potentiometric foot switch
 COM-2800: with overlap welding, pneumatic control for automated welding
 COM-2803S: with overlap welding, pneumatic control and. with Speeddisplay
 COM-3800: with overlap welding / Spot welding and tack welding
 COM-1803 ROB: with Robotic interface

Detailed information on
PRO-turntable control systems
on page 94!



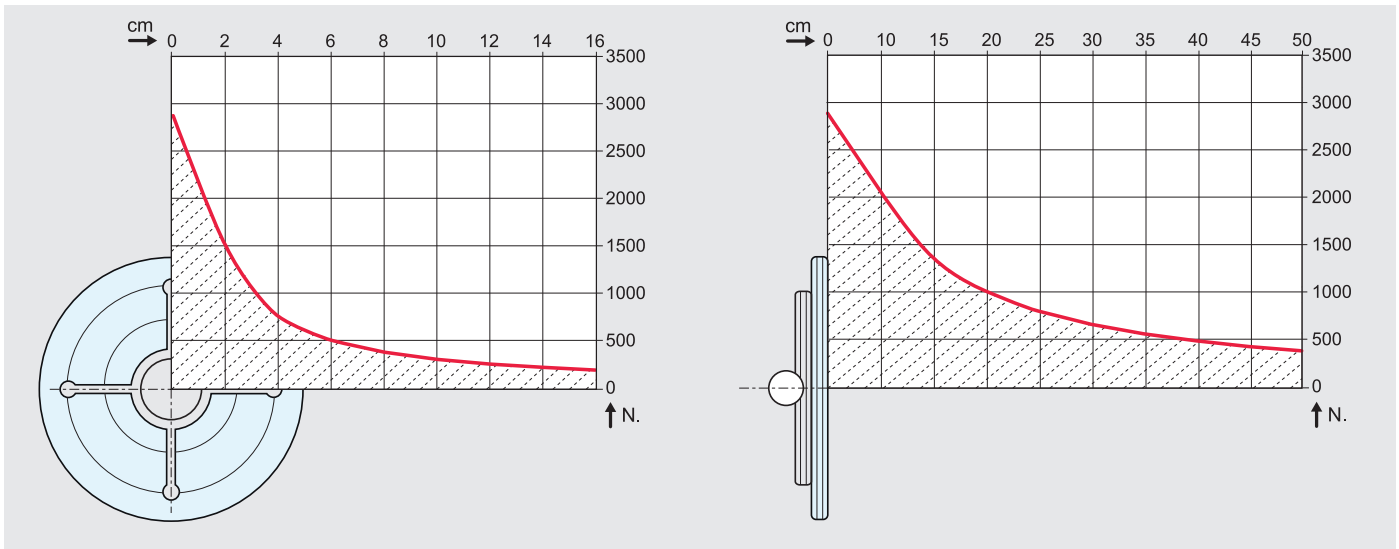
Modular Positioner Systems

Welding Positioner PRO 2

Perfectly positioned

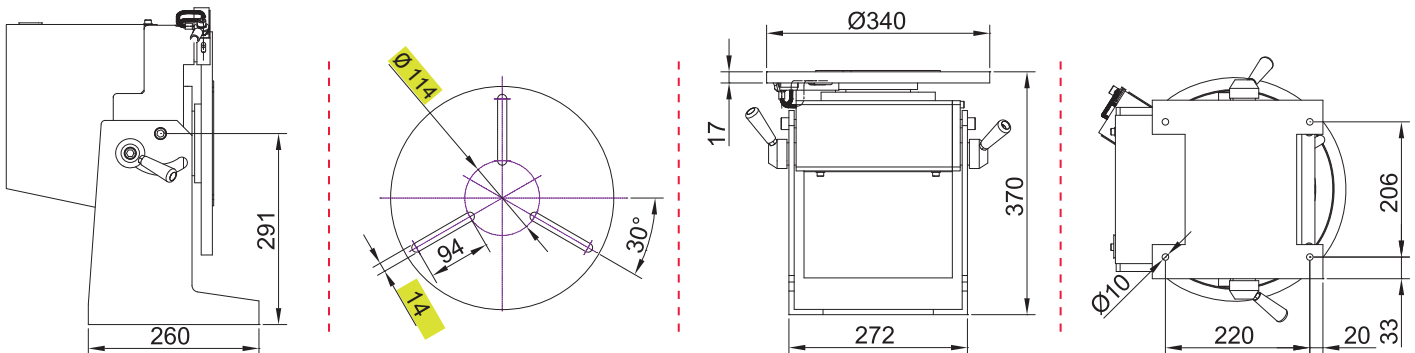
When choosing a turntable, the turning and tilting moment must be considered by all means. The distance between the center of gravity of the workpiece and the faceplate must be considered and the eccentric distance of the center of gravity and the center respectively. Don't forget

the weight of the clamping device. It is often higher than the weight of the workpiece itself. The workpieces can be positioned optimally for welding with a turning and tilting table. This improves productivity and quality significantly.



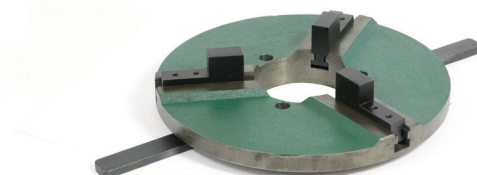
When choosing your positioner, please consider

- the center of gravity of your workpiece
- the weight of your tensioning device (chuck)



Note

suitable three-jaw chuck for Pro 2 Chuck 160 D up to Chuck 325 D and Chuck 400JW



Modular Positioner Systems

Welding Positioner PRO 3

With 60 mm hollow shaft

Features

- Tilting and clamping from 0° to 90°.
- Start/stop via location-independent foot switch.
- Rotating direction adjustable: cw/ccw.
- Rotating time adjustable.
- 60 mm hollow shaft.
- Table diameter: 340 mm. The surface is chrome-plated as a protection against weld spatters.
- Table speed adjustable from 0,6 – 6 rpm.
- Welding machine can be actuated via turntable control.
- Mass contact transmits 300A/100%.
- Turntable and control unit are separated.
- HF-protected.



Model	PRO 3
Supply voltage	AC 230 V/50 Hz
Ground connection	300 A /100 %
Tilting range	0° – 90°
Table diameter	340 mm
Speed	0,6 – 6 rpm
Rotating directions	cw / ccw
Max. load horizontal	300 kg
Hollow shaft	60 mm
Mounting hole circle Ø	114mm up to max. 302 mm
Measurem. (L x W x H) mm	380 x 340 x 425
Weight	62 kg
Item no.	02.30.01.10130 (old:71801116)

Max load of PRO 3 in horizontal position:
290 kg.



COM-1000: easy control start/stop, cw/ccw
 COM-1802: easy control start/stop, cw/ccw
 COM-1803S: easy control start/stop, cw/ccw and with Speeddisplay
 COM-1800 VSF: with potentiometric foot switch
 COM-2800: with overlap welding, pneumatic control for automated welding
 COM-2803S: with overlap welding, pneumatic control and. with Speeddisplay
 COM-3800: with overlap welding / Spot welding and tack welding
 COM-1803 ROB: with Robotic interface

Detailed information on
PRO-turntable control systems
on page 94!



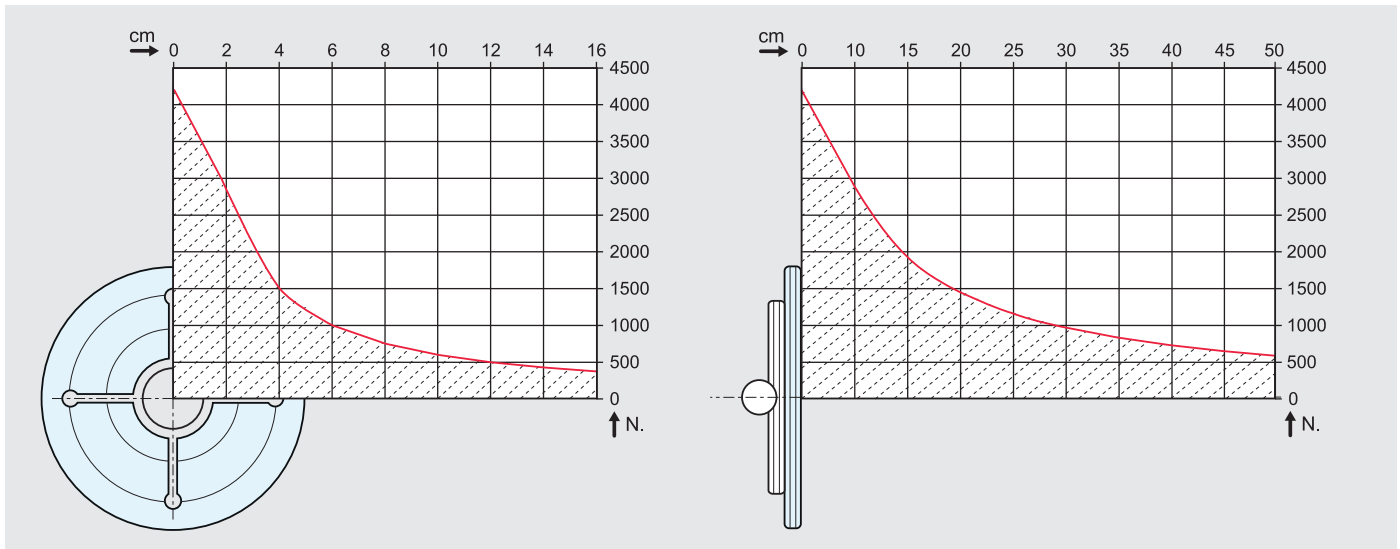
Modular Positioner Systems

Welding Positioner PRO 3

Perfectly positioned

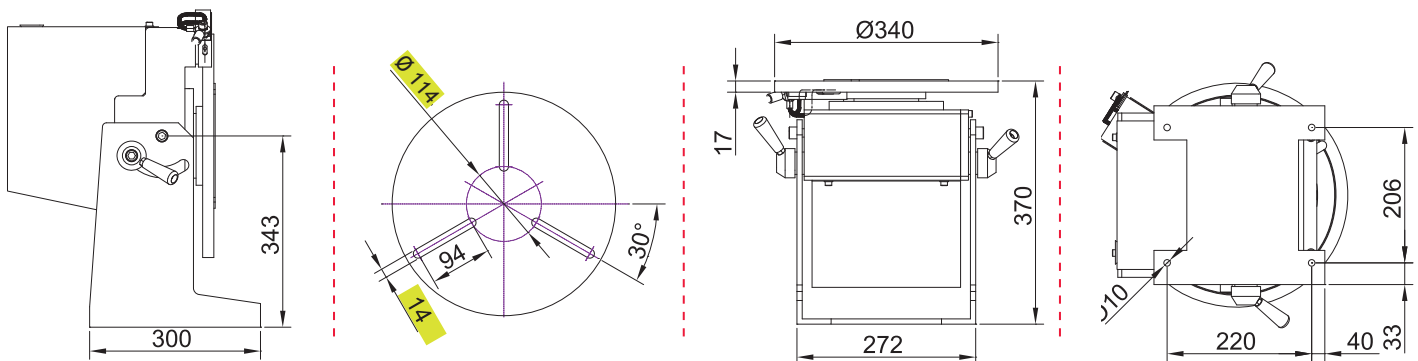
When choosing a turntable, the turning and tilting moment must be considered by all means. The distance between the center of gravity of the workpiece and the faceplate must be considered and the eccentric distance of the center of gravity and the center respectively. Don't forget

the weight of the clamping device. It is often higher than the weight of the workpiece itself. The workpieces can be positioned optimally for welding with a turning and tilting table. This improves productivity and quality significantly.



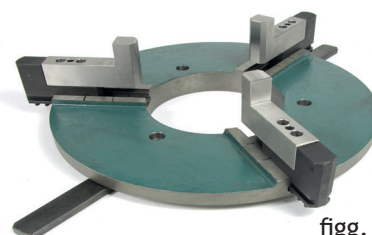
When choosing your positioner, please consider

- the center of gravity of your workpiece
- the weight of your tensioning device (chuck)



Note

suitable three-jaw chuck for Pro 3 Chuck 160 D to Chuck 325 D and Chuck 400JW



figg. Chuck 400JW

Modular Positioner Systems

Welding Positioner PRO 4

With 120 mm hollow shaft

Features

- Tilting and clamping from 0° to 90°.
- Start/stop via location-independent foot switch.
- Rotating direction adjustable: cw/ccw.
- Rotating time adjustable.
- 120 mm hollow shaft.
- Table diameter: 400 mm. The surface is chrome-plated as a protection against weld spatters.
- Table speed adjustable from 0,2 – 2 rpm.
- Welding machine can be actuated via turntable control.
- Mass contact transmits 300A/100%.
- Turntable and control unit are separated.
- HF-protected.



Model	PRO 4
Supply voltage	AC 230 V/50 Hz
Ground connection	300 A/100 %
Tilting range	0° – 90°
Table diameter	400 mm
Speed	0,2 – 2 rpm
Rotating directions	cw/ccw
Max. load horizontal	400 kg
Hollow shaft	120 mm
Mounting hole circle Ø	180 mm to max. 360 mm
Measurements (L x W x H) mm	480 x 400 x 425
Weight	69 kg
Item no.	02.30.01.10140 (old:71801168)



COM-1000: easy control start/stop, cw/ccw
 COM-1802: easy control start/stop, cw/ccw
 COM-1803S: easy control start/stop, cw/ccw and with Speeddisplay
 COM-1800 VSF: with potentiometric foot switch
 COM-2800: with overlap welding, pneumatic control for automated welding
 COM-2803S: with overlap welding, pneumatic control and. with Speeddisplay
 COM-3800: with overlap welding / Spot welding and tack welding
 COM-1803 ROB: with Robotic interface

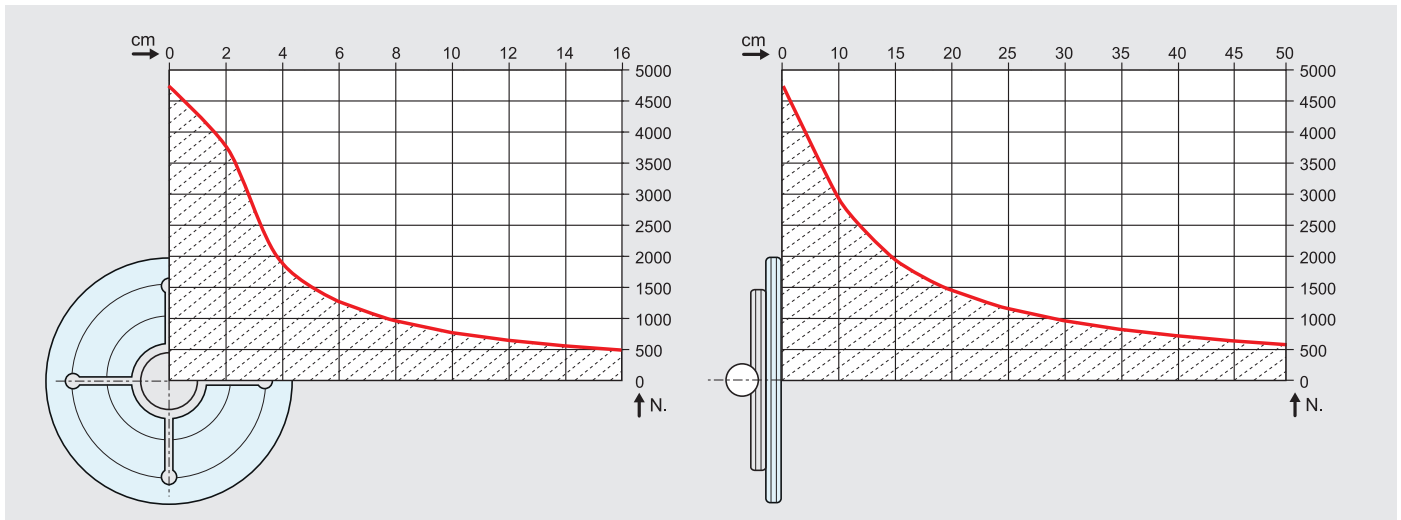
Modular Positioner Systems

Welding Positioner PRO 4

Perfectly positioned

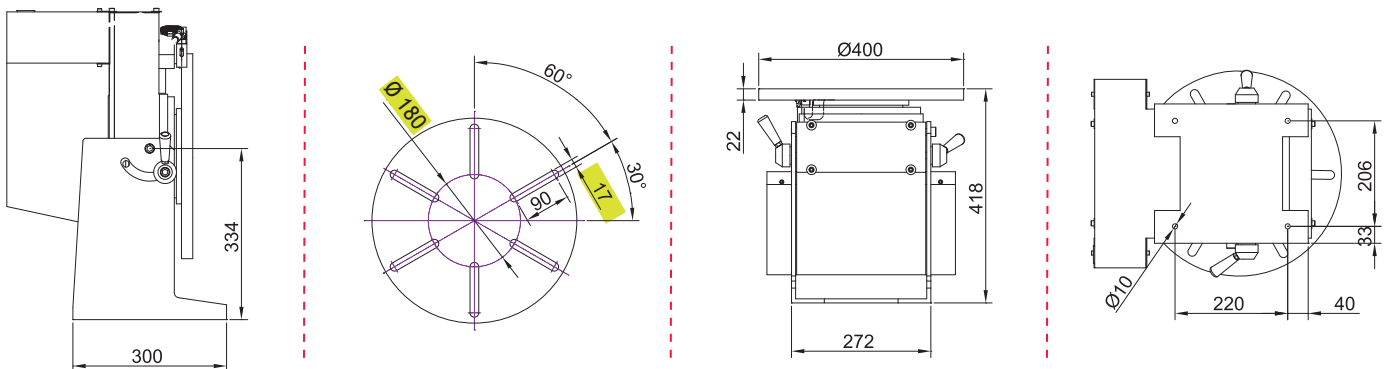
When choosing a turntable, the turning and tilting moment must be considered by all means. The distance between the center of gravity of the workpiece and the faceplate must be considered and the eccentric distance of the center of gravity and the center respectively. Don't forget

the weight of the clamping device. It is often higher than the weight of the workpiece itself. The workpieces can be positioned optimally for welding with a turning and tilting table. This improves productivity and quality significantly.



When choosing your positioner, please consider

- the center of gravity of your workpiece
- the weight of your tensioning device (chuck)



Note

suitable three-jaw chuck for PRO4 Chuck 400 JW,
Chuck 200 D and Chuck 325 D



figg. Chuck 400JW

Control Systems

Control unit series for PRO turntables with HF protection

Features

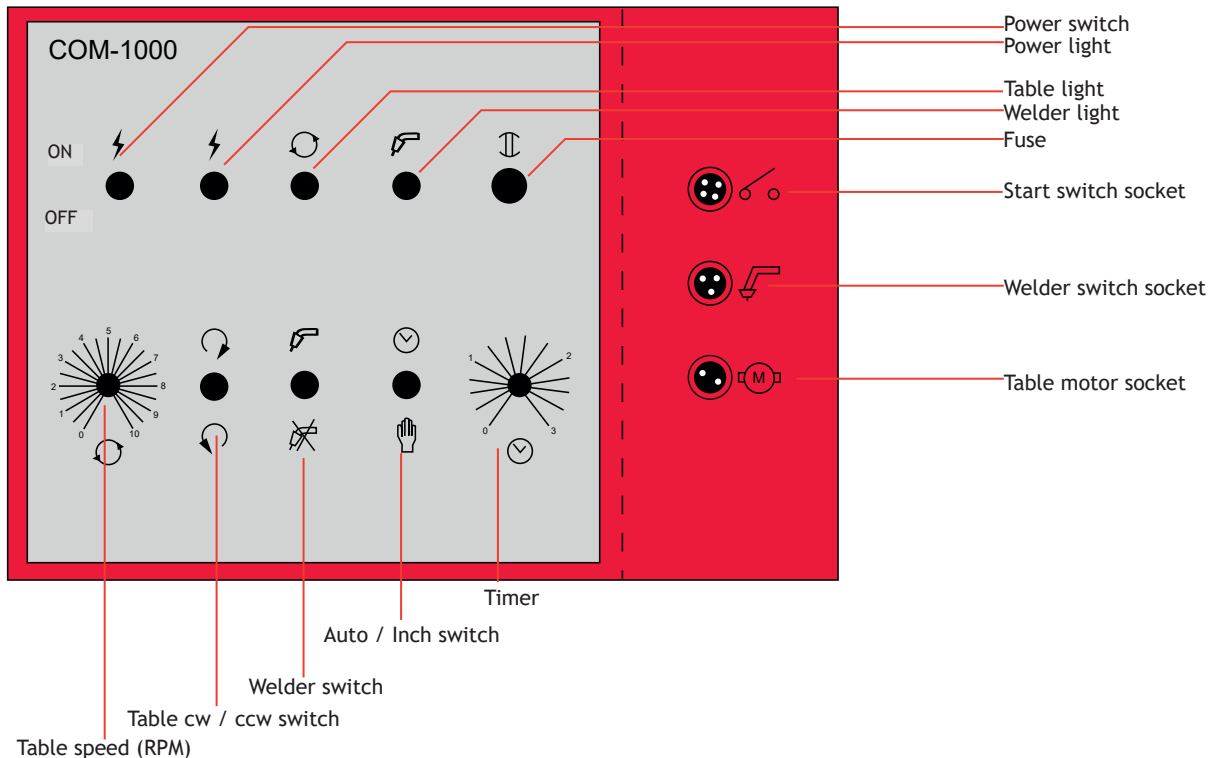
- Forward / reverse operation.
- Stepless speed control.
- Welding Torch ON/OFF.
- Adjuster for turning time, 2-Cycle

Model	COM-1000
Supply voltage	AC 230V / 1Ø
Motor power	DC 90V / 150W
Rotating direction	cw / ccw
Timer	0-240sec (5 Time setting ranges)
Welding mode	<input type="checkbox"/> 2-Cycle
Brake	magnetic
HF-Protection	100%
Start	Foot switch (2m cable)
Item no.	02.30.80.10110 (old:71801170)



Scope of delivery:

Foot switch



Control Systems

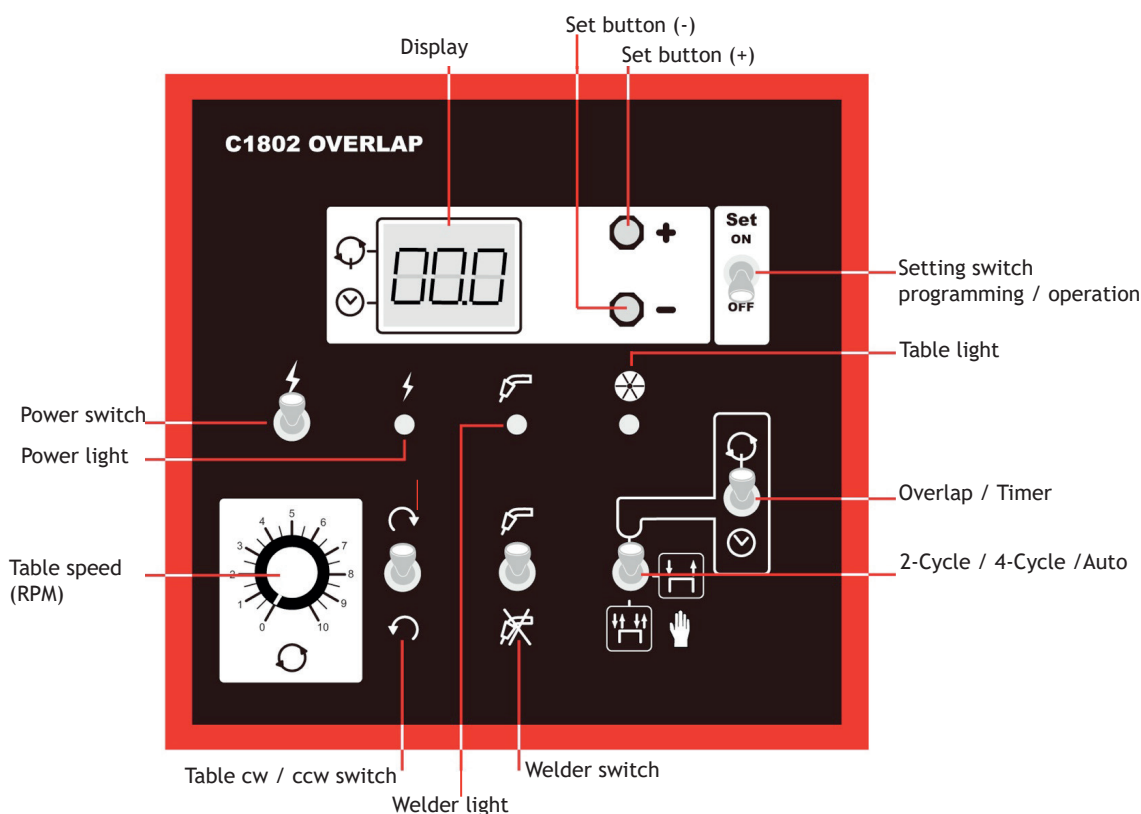
Control unit series for PRO turntables with HF protection

Features

- Forward / reverse operation.
- Stepless speed control.
- Welding Torch ON/OFF.
- Overlap welding adjustable
- Adjuster for turning time, 2-Cycle / 4-Cycle
- Rotational speed display
- **COM-1803 with Speeddisplay**



Scope of delivery:
Foot switch



Control Systems

Control unit series for PRO turntables with HF protection

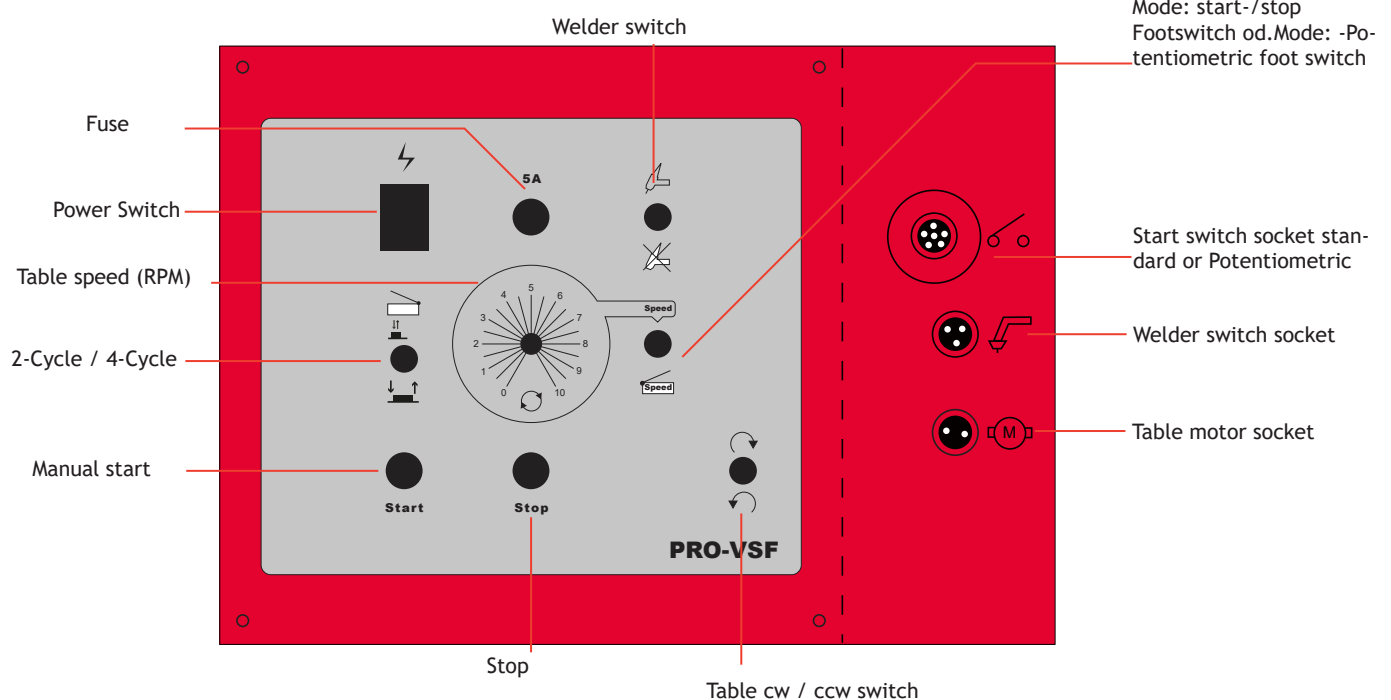
Features

- Forward / reverse operation.
- Stepless speed control.
- Welding Torch ON/OFF.
- for potentiometric footswitch

Model	COM-1800 VSF
Supply voltage	A1:AC 230 V / 50 Hz/5 A
Motor power	DC 90V / 150W
Rotating direction	cw / ccw
Welding mode	2-cycle / 4-cycle
Brake	magnetic
HF-Protection	100%
Start	Footswitch (2m cable)
Item no.	02.30.80.10130 (old:71801169.10)



Scope of delivery:
Foot switch



Control Systems

Control unit series for PRO turntables with HF protection

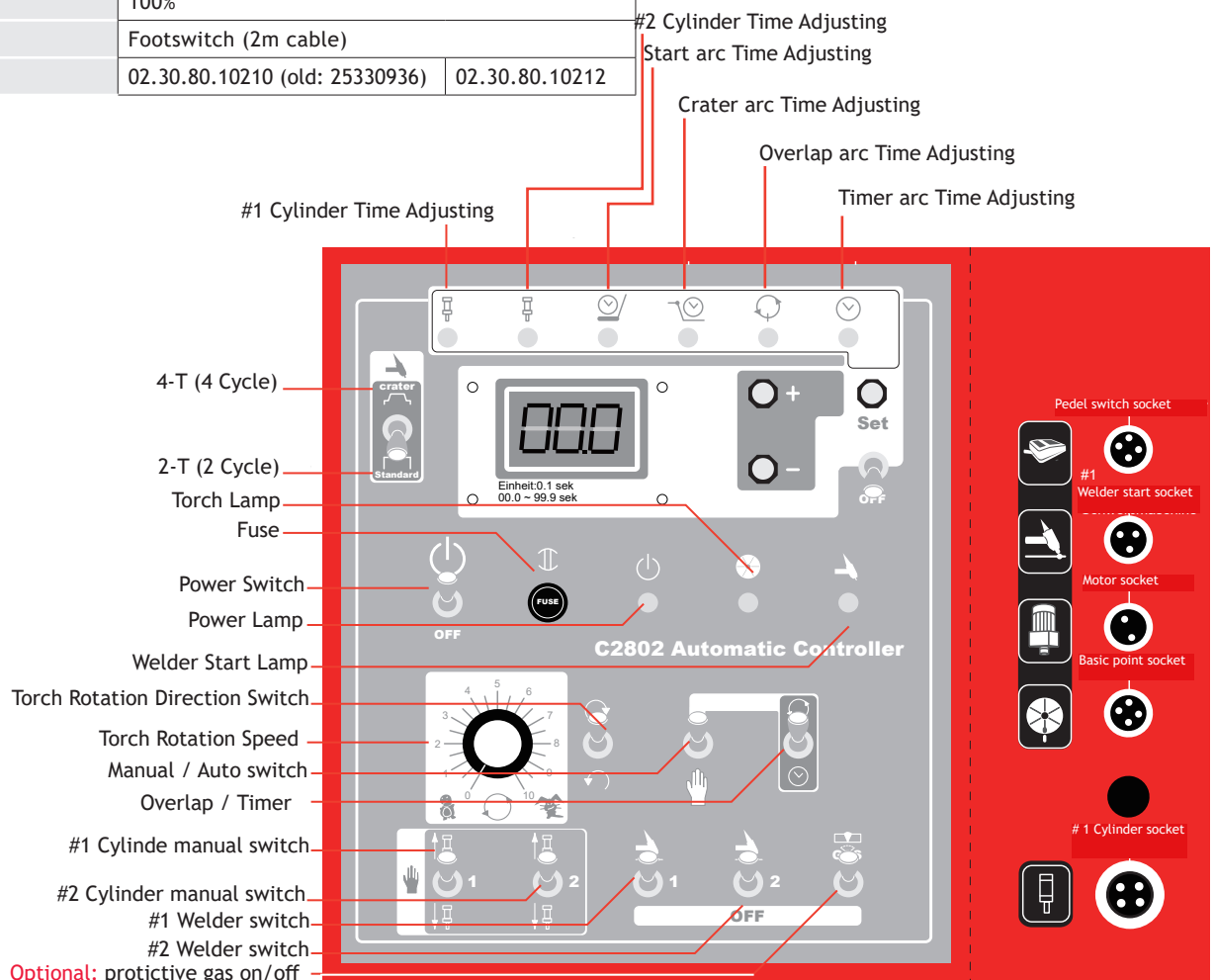
Features

- Forward / reverse operation.
- Stepless speed control.
- Welding Torch ON/OFF.
- Overlap welding adjustable.
- Controller for rotation time, 2-Cycle / 4-Cycle
- Pneumatic control for automated welding.
- **COM-2803S with Speeddisplay**



Scope of delivery:
Foot switch

Model	COM-2800	COM-2803S
Supply voltage	A1:AC 230 V / 50 Hz/3 A	
Motor power	DC 90V / 150W	
Rotating direction	cw / ccw	
Over Lap timer	0 – 99 sec.	
Timer	0 – 999 sec.	
Start arc timer	0 – 99 sec.	
Crater arc timer	0 – 99 sec.	
Welding mode	Standard 2-Cycle / Crater(4-Cycle)	
Line welder	2 pc (welding w. 1 torch or 2 torches)	
Brake	magnetic	
HF-Protection	100%	
Start	Footswitch (2m cable)	
Item n.	02.30.80.10210 (old: 25330936)	02.30.80.10212



Control Systems

Control unit series for PRO turntables with HF protection

For spot- and tack-welding

With the COM-3800 welding spots are set via the reed contact in combination with inductive transmitters (screws M6×1). Where the inductive transmitter makes a contact, a welding spot (i. e. welding → turntable does not rotate) or a welding bead (i. e. welding → turntable rotates) is set. The welding length is controlled via the adjustable time.

The control unit is delivered with a suitable turntable for PRO2 and PRO3. The turntable is already equipped with 12 drillings. Subsequently, further drillings are possible.

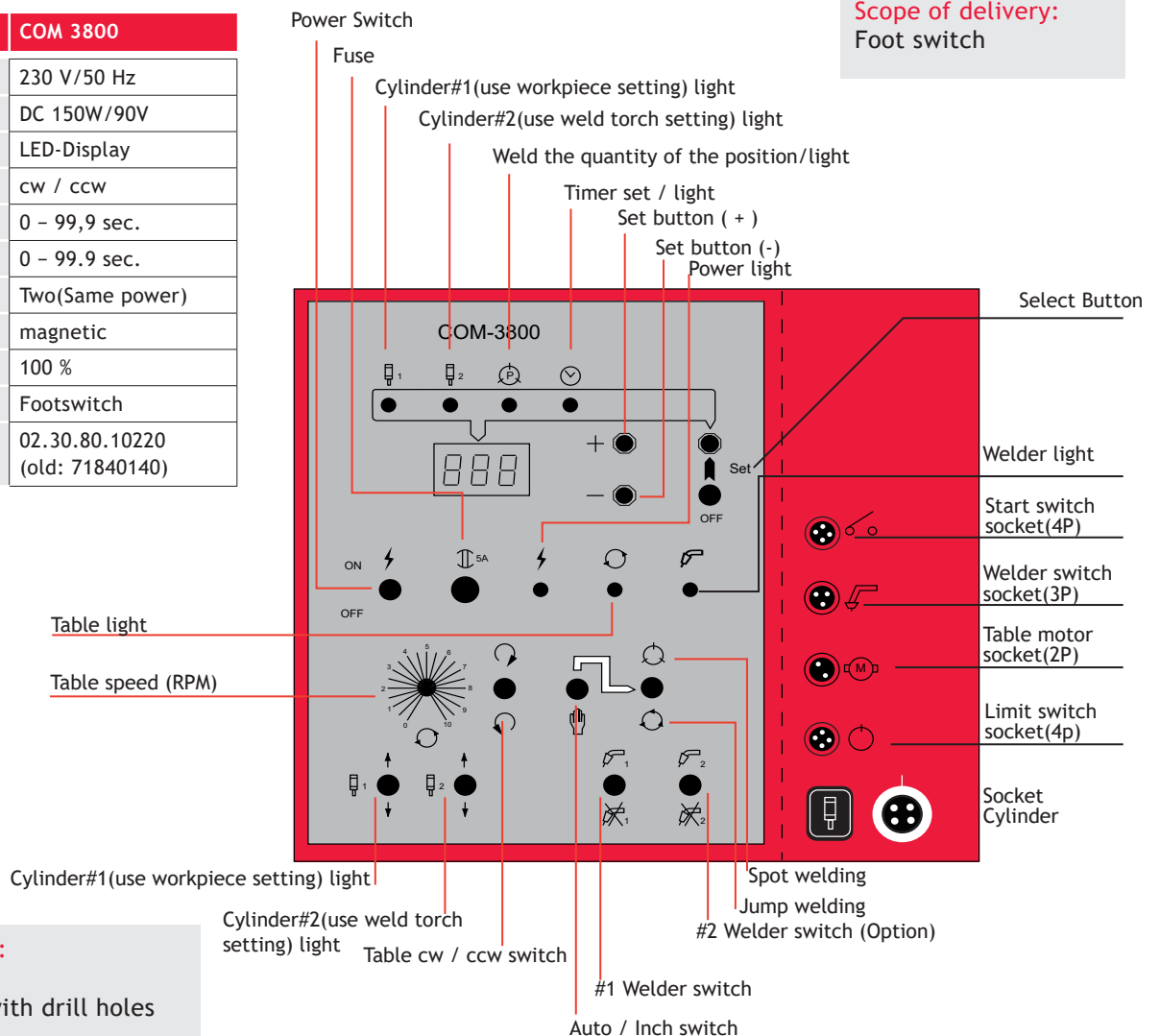


Features

- Forward / reverse operation.
- Stepless speed control.
- Welding Torch ON/OFF.
- Overlap welding adjustable.
- Pneumatic control for automated welding.
- Spot welding and tack welding.

Model	COM 3800
Supply voltage	230 V/50 Hz
Motor power	DC 150W/90V
Display	LED-Display
Rotating direction	cw / ccw
Arc spot timer	0 – 99,9 sec.
Arc jump timer	0 – 99,9 sec.
Air valve control	Two(Same power)
Brake	magnetic
HF-Protection	100 %
Start	Footswitch
Item no.	02.30.80.10220 (old: 71840140)

Scope of delivery:
Foot switch



Scope of delivery:
Controller
Turntable plate with drill holes
12 Bolts M6 x 1

Control Systems

Control unit series for PRO turntables with HF protection

PLC-Control – One for all!

The integrated touchpad can control the following functions and save them:

- Right-/Left Running.
- Infinitely variable speed control.
- Welding torch on/off.
- Weld overlap
- Pneumatic control for automated welding.
- Spot welding and tack welding.

Additional functions:

- Regulation of gas pre- and postflow time
- Pneumatic control for trestle / support block
- With 99 memory cells

Model	SPS
Supply voltage	230 V/50 Hz
HF-protection	100 %
Start	Foot switch
Item no.	

Scope of delivery:
Foot switch



SIEMENS
Technologie

Note

Thermal Dynamics®
Plasma-Cutting Unit A40i CNC
and A60i CNC on page 26.



Control System with Robotic Interface

COM-1803 ROB

With Robotic interface

COM-1803 ROB presents an inexpensive compact controller for robot interface, in addition offers the COM-1803 ROB a digital speed display. The controller is suitable for PRO2, PRO3 and PRO4. (also suitable for upgrading).

with
Robotic
interface

Features

- Forward / reverse operation.
- Stepless speed control.
- Overlap welding adjustable.
- 2-Cycle / 4-Cycle
- incl. rotational speed display
- Robotic interface

Model	COM-1803 ROB
Power supply	230 V/50 Hz
Motor power	DC 90 V 150W
HF-Protection	100%
Start	Foot Switch
Item no.	02.30.80.01040



Scope of delivery:
Foot switch



Productvideo



Control COM 1803 ROB

Note

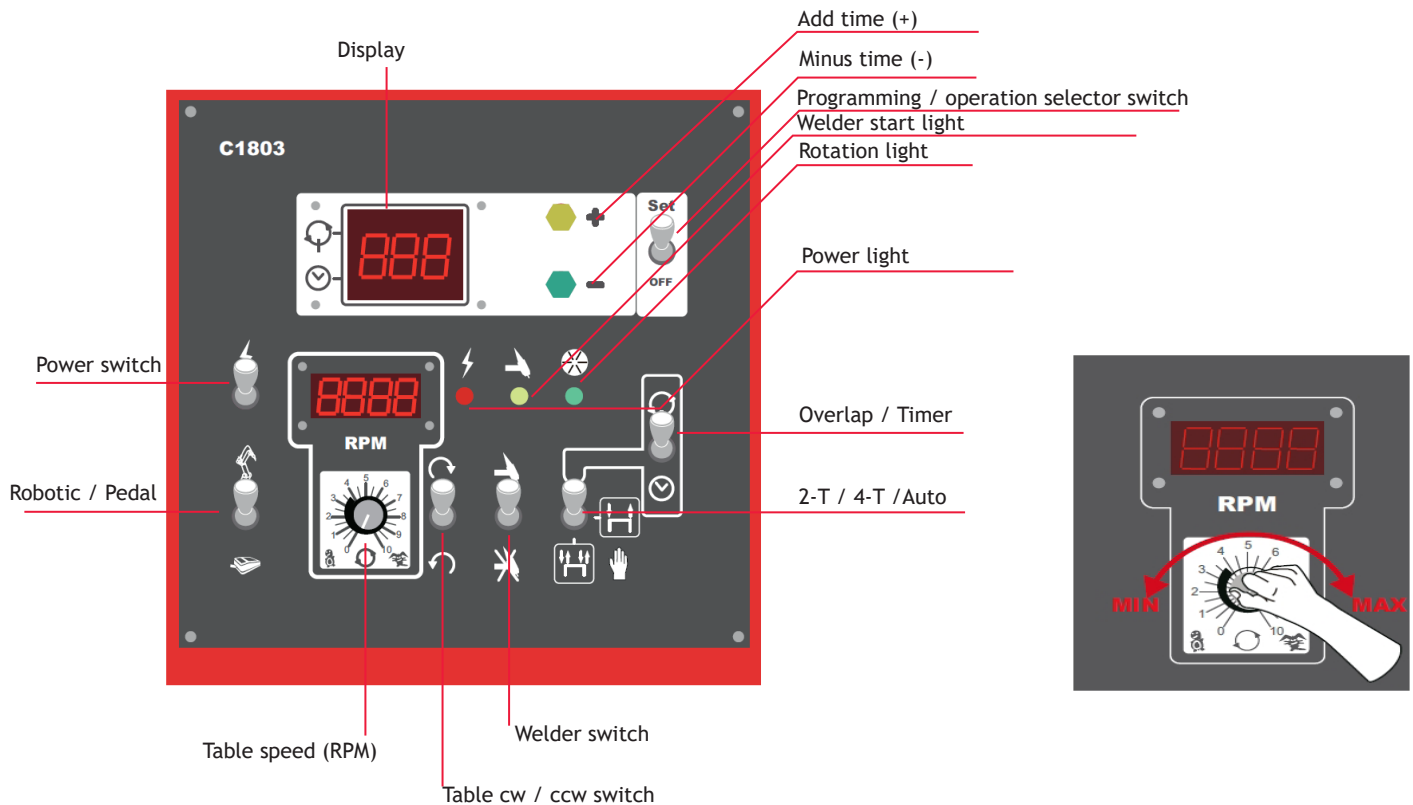


Turntables in modular system
Read more on page 88

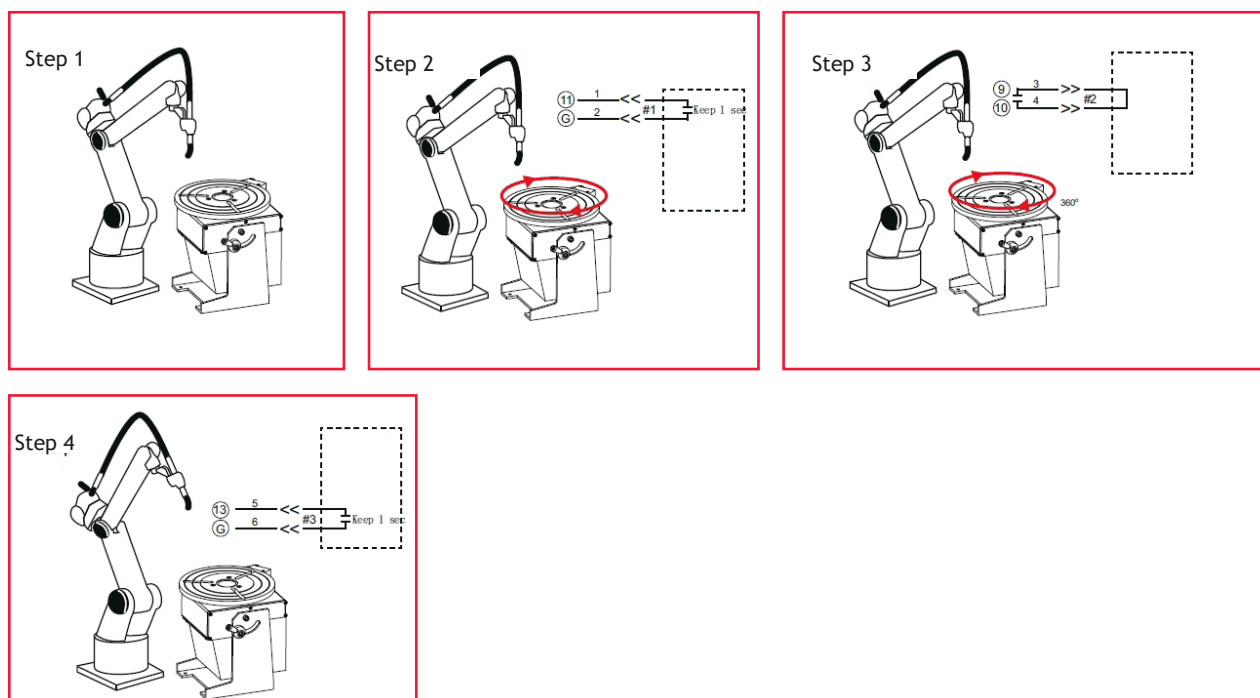
Control System with Robotic Interface

COM-1803 ROB

here an overview about the functions of COM 1803 ROB...



Application.....



Underframe for welding positioners

Suitable for PRO 2, PRO 3 and PRO 4



Underframe
Item no.: 02.30.92.00010



Underframe for welding positioners

Suitable for PRO 2, PRO 3 and PRO 4

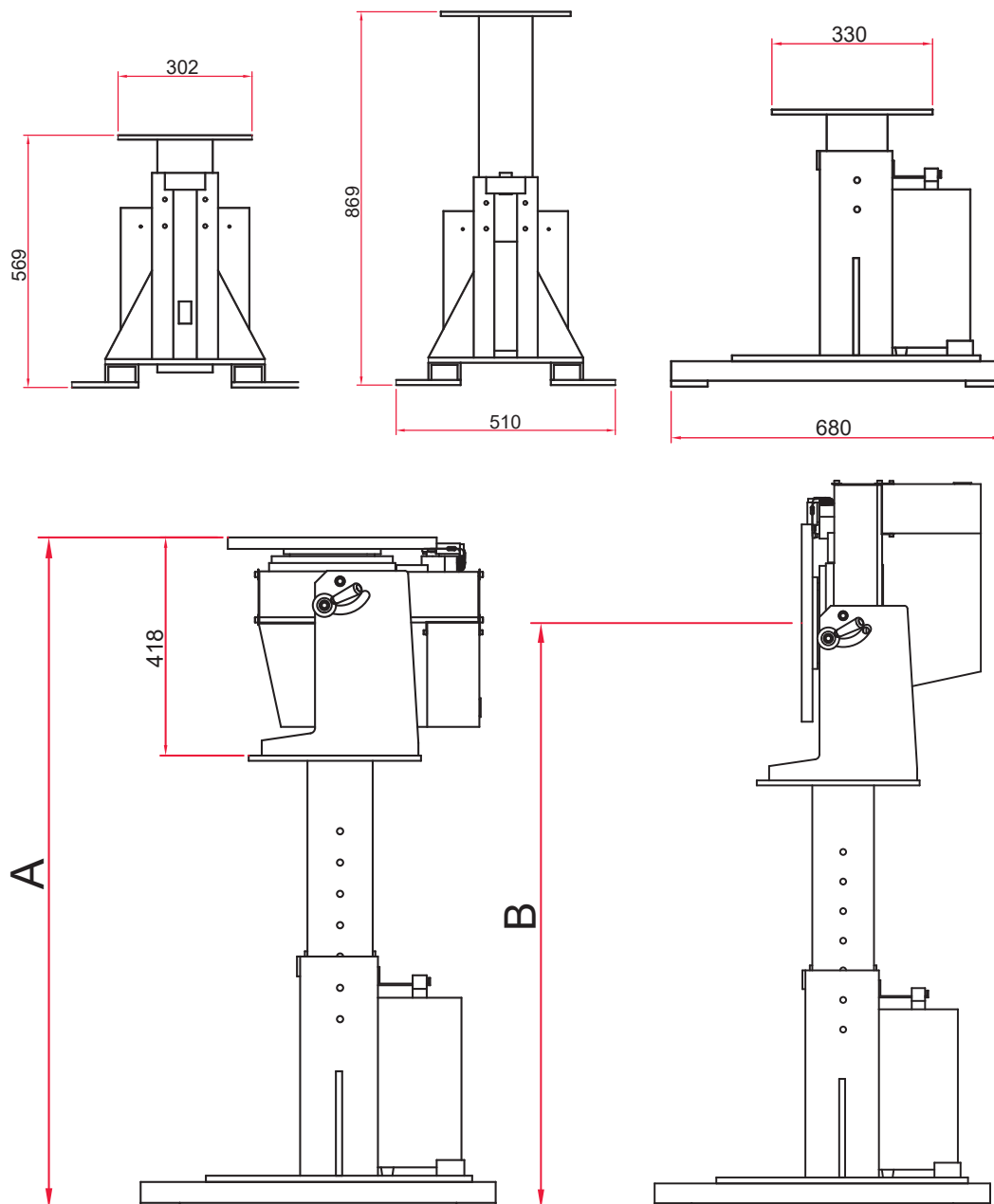
PR-SL01S

The new underframe is suitable for all JAVAC welding positioners of the PRO-Series. The required height is adjustable by bolts.

Height adjustment	PRO2	PRO3	PRO4
A (in mm)	939 ~1.239	982 ~1.282	987 ~1.287
B (in mm)	845 ~1.145	888 ~1.188	888 ~1.188

Features

- Height adjustable
- Suitable for welding positioners PRO 2, PRO 3 and PRO 4

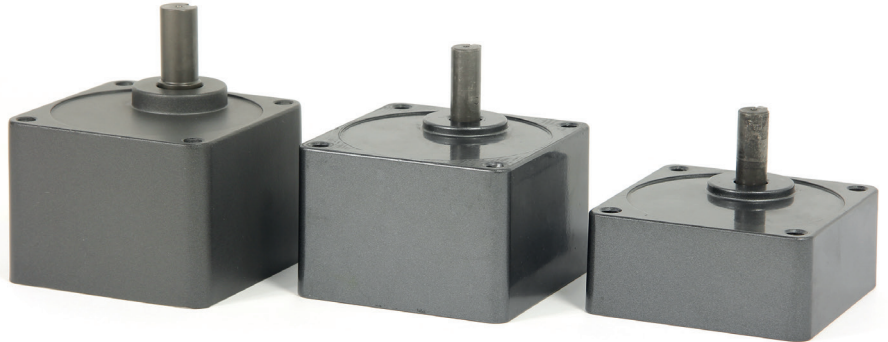


Gear Boxes

additional Gear Box

Choose a gear box for your PRO turntable

With the different gears you have the possibility to adjust the speed of your PRO-turntable to your requirements. You can determine before buying *, with which gear or which speed your turntable should be equipped.



Model	spin speed	Gear Box	intermediate gear	turning moment
PRO 02	2,4 – 24 u/min	5GN15B		2,6 Nm
	2,0 – 20 u/min	5GN18B		3,0 Nm
	1,2 – 12 u/min	5GN30B		4,6 Nm
standard	0,6 – 6 u/min	5GN60B		6,5 Nm
	0,4 – 4 u/min	5GN90B		6,5 Nm
	0,2 – 2 u/min	5GN180B		6,5 Nm
	0,12 – 1,2 u/min	5GN30B	5GN10X	4,6 Nm
	0,06 – 0,6 u/min	5GN60B	5GN10X	6,5 Nm
	0,04 – 0,4 u/min	5GN90B	5GN10X	6,5 Nm
	0,02 – 0,2 u/min	5GN180B	5GN10X	6,5 Nm
PRO 03	2,8 – 28 u/min	5GX12.5KB		3,6 Nm
	2,4 – 24 u/min	5GX15KB		4,0 Nm
	1,2 – 12 u/min	5GX30KB		8,0 Nm
standard	0,6 – 6 u/min	5GX60KB		12,0 Nm
	0,4 – 4 u/min	5GX90KB		12,0 Nm
	0,2 – 2 u/min	5GX180KB		12,0 Nm
	0,12 – 1,2 u/min	5GX30KB	5GX10XK	8,0 Nm
	0,06 – 0,6 u/min	5GX60KB	5GX10XK	12,0 Nm
	0,04 – 0,4 u/min	5GX90KB	5GX10XK	12,0 Nm
	0,02 – 0,2 u/min	5GX180KB	5GX10XK	12,0 Nm
PRO 04	1,2 – 12 u/min	5GN3B		20,0 Nm
	0,6 – 6 u/min	5GN6B		20,0 Nm
	0,4 – 4 u/min	5GN9B		20,0 Nm
standard	0,2 – 2 u/min	5GN18B		20,0 Nm
	0,1 – 1 u/min	5GN36B		20,0 Nm
	0,06 – 0,6 u/min	5GN60B		20,0 Nm
	0,04 – 0,4 u/min	5GN90B		20,0 Nm
	0,02 – 0,2 u/min	5GN180B		20,0 Nm

* When changing the gear, additional costs arise for the conversion

Control Systems + Gear Boxes

additional Gear Box

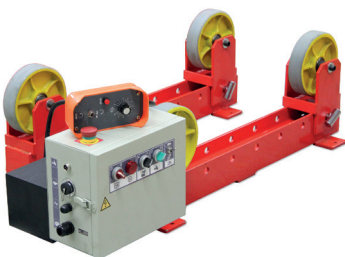


Model	spin speed	Gear Box	intermediate gear	turning moment
POS 300	0,51 – 5,1 u/min	5GN5B		3,6 Nm
standard	0,34 – 3,4 u/min	5GN7.5B		3,6 Nm
	0,14 – 1,4 u/min	5GN18B		3,6 Nm
	0,08 – 0,8 u/min	5GN30B		3,6 Nm
	0,07 – 0,7 u/min	5GN36B		3,6 Nm
	0,04 – 0,4 u/min	5GN60B		3,6 Nm
	0,03 – 0,3 u/min	5GN90B		3,6 Nm
	0,01 – 0,1 u/min	5GN180B		3,6 Nm

Model	spin speed	Gear Box	intermediate gear	turning mement
POS 500	0,4 – 4,8 u/min	5GX5KB		30 Nm
standard	0,2 – 2,6 u/min	5GX9KB		30 Nm
	0,2 – 2,0 u/min	5GX12,5KB		30 Nm
	0,16 – 1,6 u/min	5GX15KB		30 Nm
	0,08 – 0,8 u/min	5GX30KB		30 Nm
	0,04 – 0,4 u/min	5GX60KB		30 Nm
	0,03 – 0,27 u/min	5GX90KB		30 Nm
	0,01 – 0,13 u/min	5GX180KB		30 Nm

Model	spin speed	Gear Box	intermediate gear	turning moment
POS 750	0,21 – 2,1 u/min	5GX7.5KB		52,5 Nm
standard	0,12 – 1,2 u/min	5GX12.5KB		52,5 Nm
	0,1 – 1,0 u/min	5GX15KB		52,5 Nm
	0,05 – 0,52 u/min	5GX30KB		52,5 Nm
	0,03 – 0,26 u/min	5GX60KB		52,5 Nm
	0,02 – 0,17 u/min	5GX90KB		52,5 Nm
	0,01 – 0,10 u/min	5GX180KB		52,5 Nm

for SIR-1 Turnroller (Page 130)



Model	roller speed	Gear Box	intermediate gear	turning moment
POS 750	294 – 2940 mm/min	5GX12.5KB		5,4 Nm
standard	147 – 1470 mm/min	5GX25KB		5,4 Nm
	61,2 – 612 mm/min	5GX60KB		5,4 Nm

Note

Foot switches you will find on Page 119



Positioners, medium-weight

Welding Positioner POS-300

With 60 mm hollow shaft

Features

- Table can be tilted manually from 0° to 135°.
- Foot switch start/stop.
- 60 mm hollow shaft.
- Table diameter: 400 mm.
- Rotating directions adjustable cw / ccw
- Table speed adjustable from 0,34 – 3,4 rpm.
- Welding machine can be actuated via turntable control.
- Mass contact transmits 300A/100%.
- Control unit available with overlap welding.
- HF-protected.

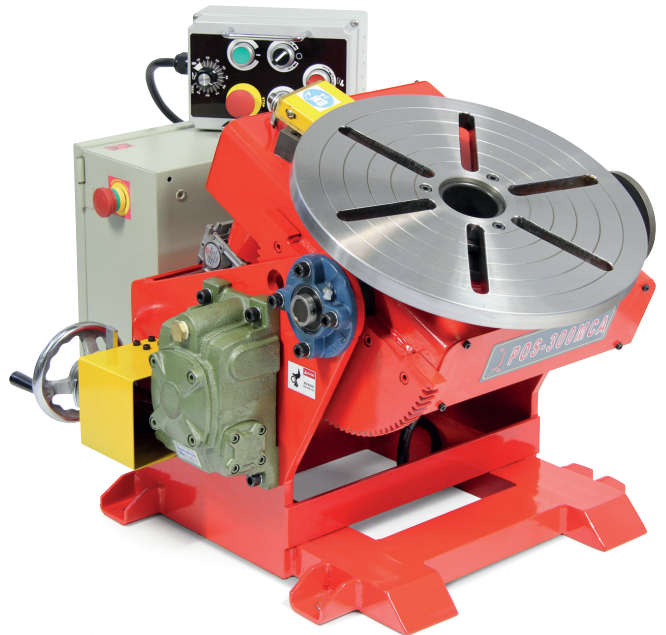
M = manual tilting

MC = manual tilting with overlap

MCR = manual tilting with overlap welding and robotic interface

AC = motor-driven tilting with overlap welding

ACR = motor-driven tilting with overlap welding and robotic interface



Productvideo on www.javac.org



Model	POS-300MC/300MCR/300AC/300ACR
Supply voltage	AC 230 V/50 Hz
Ground connection	300 A/100 %
Tilting range	0° – 135°
Table diameter	400 mm
Hollow shaft	60 mm
Mounting hole circle Ø	120 mm to max. 356 mm
Slot width table	17 mm
Speed	0,34 – 3,4 rpm
Table tilt	manually (by hand wheel)
rotating direction	cw / ccw
Max. load A	300 kg
Measurements (LxWxH) mm	ca. 340 x 288 x 410
Weight	ca. 150 kg
Item no.:	01.30.01.10310 (old: 71801167)
Item no.: POS-300MC	01.30.01.10320 (old:71801167MC)
Item no.: POS-300MCR	01.30.01.10330
Item no.: POS-300A	01.30.01.10340
Item no.: POS-300AC	01.30.01.10350
Item no.: POS-300ACR	01.30.01.10360



- 1 2-cycle/4-cycle or automatic operation
- 2 Welding start signal
- 3 Stop
- 4 Rotating direction cw/ccw
- 5 Start
- 6 Speed control

Scope of delivery:

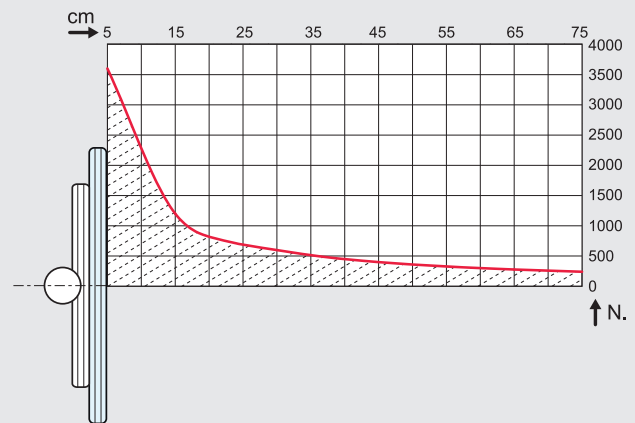
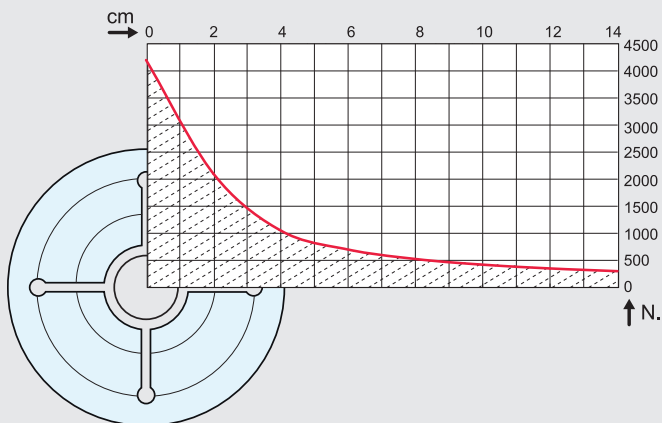
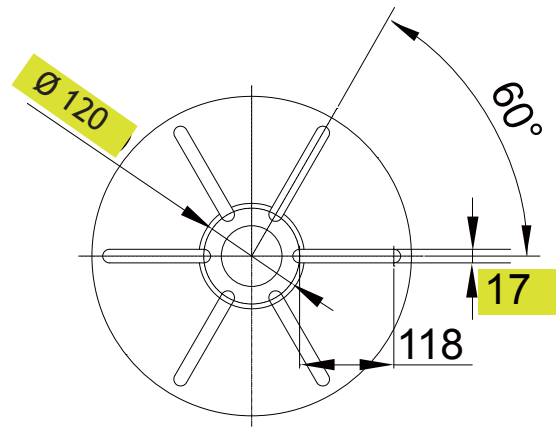
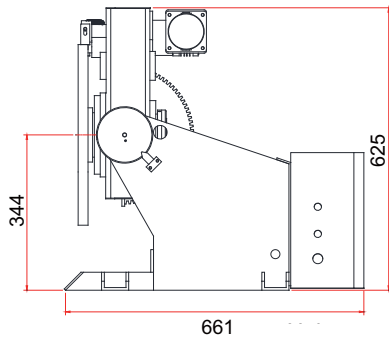
- 1 Control unit (integrated)
- 1 Start/stop foot switch
- 1 Cable remote control

Positioners, medium-weight

Welding Positioner POS-300

Perfectly positioned

When choosing a turntable, the turning and tilting moment must be considered. For the mounting of eccentric workpieces we recommend to use counterweights. This protects the bearings and increases the service life of the turntable.



When choosing your positioner, please note the center of gravity of your workpiece incl. your tensioning device.

Functions

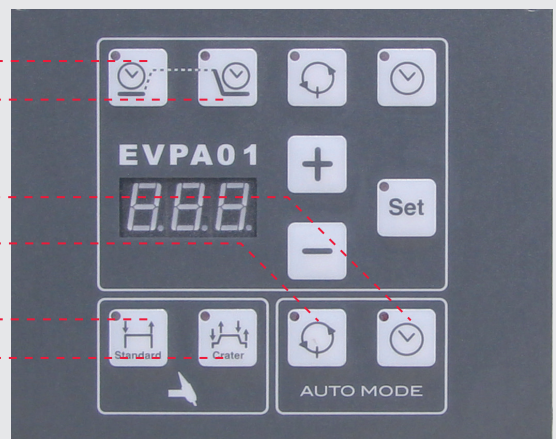
POS-300MC

- 1 Pre-welding time
- 2 Crater filling
- 3 Turning time
- 4 Overlap welding time
- 5 2-cycle welding
- 6 4-cycle welding with crater filling

1
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5
6



MC-control for the adjustment of overlap welding.

Positioners, medium-weight

Welding Positioner POS-500

With 60 mm hollow shaft

Features

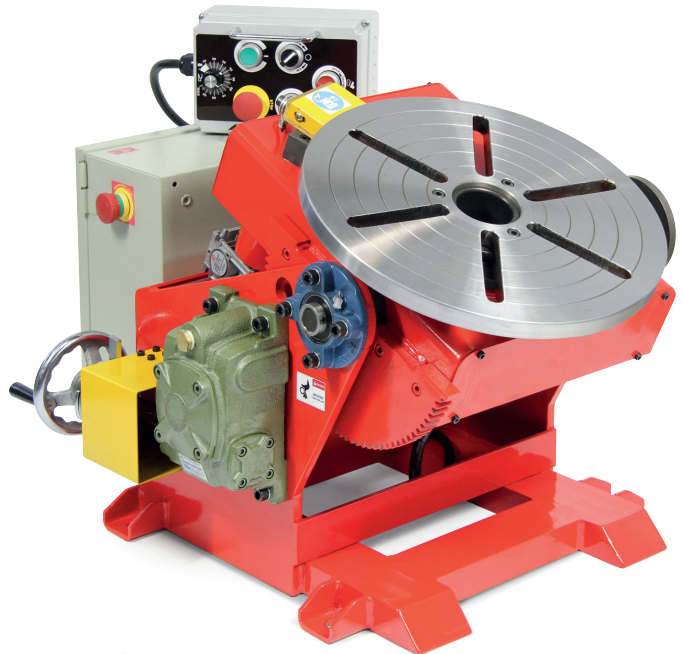
- Table can be tilted manually from 0° to 135°.
- Foot switch start/stop.
- Rotating direction adjustable: cw/ccw.
- 60 mm hollow shaft.
- Table diameter: 450 mm.
- Table speed adjustable from 0,26–2,6 or 0,05–5 rpm.
- Welding machine can be actuated via turntable control.
- Mass contact transmits 400 A/100%.
- Control unit available with overlap welding.
- HF-protected.

MC = manual tilting with overlap

MCR = manual tilting with overlap welding and robotic interface

AC = motor-driven tilting with overlap welding

ACR = motor-driven tilting with overlap welding and robotic interface



Productvideo on www.javac.org



Scope of delivery:

- 1 Control unit (integrated)
- 1 Start/stop foot switch
- 1 Cable remote control

Model	POS-500
Supply voltage	AC 230 V/50 Hz
Ground connection	400 A/100 %
Tilting range	0° – 135°
Table diameter	450 mm
Hollow shaft	60 mm
Mounting hole circle Ø	145 mm to max. 381 mm
Slot width table	17 mm
RPM standard	0,26 – 2,6 u/min
optional: servo-motor	0,05 – 5 u/min
Rotating directions	rcw/ccw
Remote control	RPM rotating direction adjustable
Max. load A	500 kg
Measurements (LxWxH) mm	ca. 655 x 500 x 503
Weight	ca. 180 kg
Item no.: POS-500M	02.30.01.10510
Item no.: POS-500MC	02.30.01.10520
Item no.: POS-500MCR	02.30.01.10530
Item no.: POS-500A	02.30.01.10540
Item no.: POS-500AC	02.30.01.10550
Item no.: POS-500ACR	02.30.01.10560



- 1 2-cycle/4-cycle or automatic operation
- 2 Welding start signal
- 3 Stop
- 4 Rotating direction cw/ccw
- 5 Start
- 6 Speed control

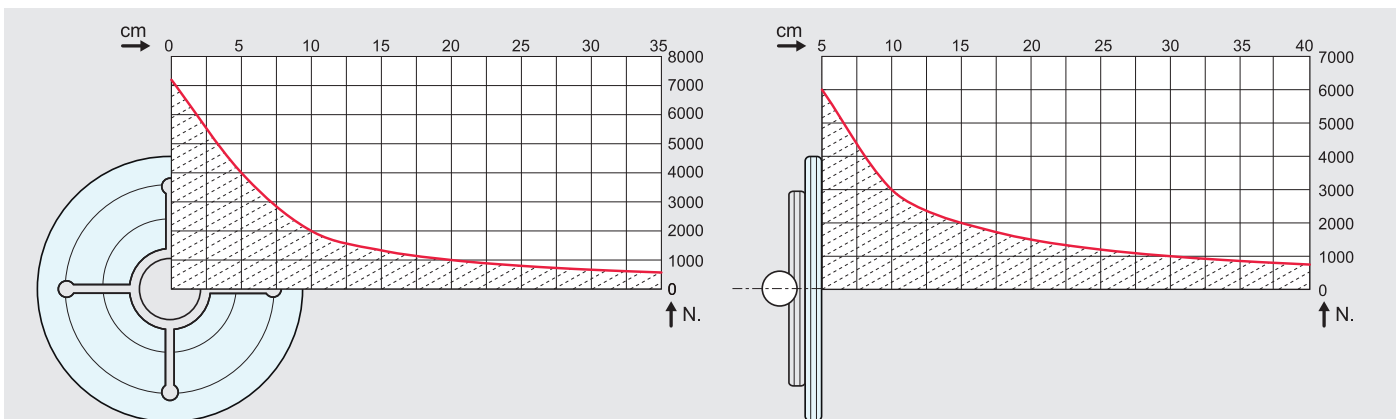
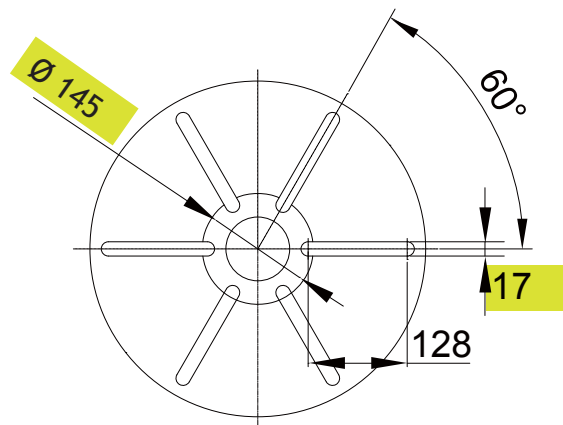
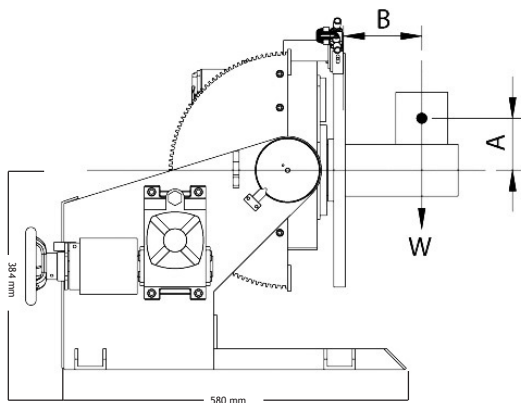
remote control MC

Positioners, medium-weight

Welding Positioner POS-500

Perfectly positioned

When choosing a turntable, the turning and tilting moment must be considered. For the mounting of eccentric workpieces we recommend to use counterweights. This protects the bearings and increases the service life of the turntable.



When choosing your positioner, please note the center of gravity of your workpiece incl. your tensioning device.

Functions

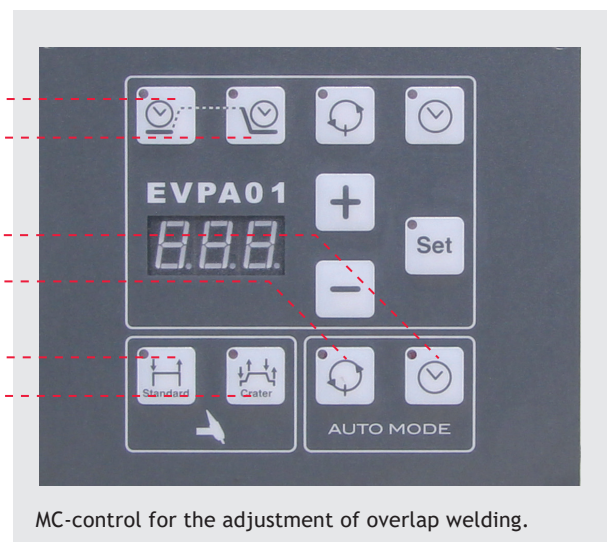
POS-500MC

- 1 Pre-welding time
- 2 Crater filling
- 3 Turning time
- 4 Overlap welding time
- 5 2-cycle welding
- 6 4-cycle welding with crater filling

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MC-control for the adjustment of overlap welding.

Positioners, medium-weight

Welding Positioner POS-750

With 60 mm hollow shaft

Features

- Table can be tilted motor-driven from 0° to 135°.
- Foot switch start/stop.
- Rotating direction adjustable: cw/ccw.
- 60 mm hollow shaft.
- Table diameter: 600 mm. .
- Table speed adjustable from 0,12 – 1,2 or from 0,05 – 5 rpm.
- Welding machine can be actuated via turntable control.
- Mass contact transmits 400A/100%.
- Control unit available with overlap welding, HF-prot.

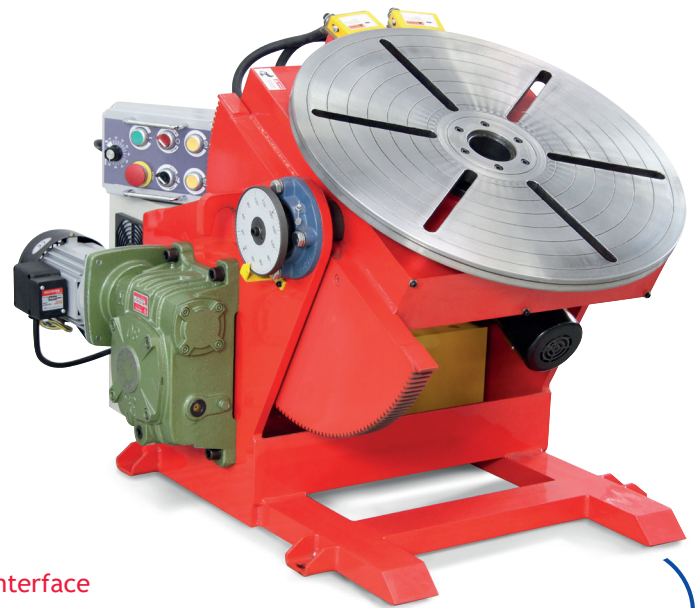
A = motor-driven tilting

AC = motor-driven tilting with overlap welding

ACR = motor-driven tilting with overlap welding and robotic interface

ACR = motor-driven tilting with overlap welding and robotic Interface

ACS = motor-driven tilting with overlap welding and servo motor



TUV NORD



Productvideo on www.javac.org

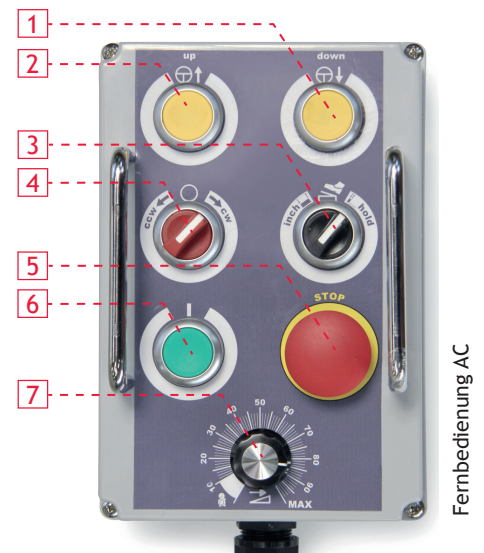
Scope of delivery:

- 1 Control unit (integrated)
- 1 Start/stop foot switch
- 1 Cable remote control



Model	POS-750
Supply voltage	AC 400 V/50 Hz
Ground connection	400 A/100 %
Tilting range	0° – 135°
Table diameter	600 mm
Hollow shaft	60 mm
Mounting hole circle Ø	190 mm to max. 540 mm
Slot width table	17 mm
RPM standard	A: 0,12 – 1,2 rpm
optional: servo-motor	B: 0,05 – 5 rpm
Rotating directions	cw/ccw
Turning moment	675 Nm
Tilting moment	1500 Nm
Remote control	RPM/rotating direction adjustable
Max. load A	750 kg
Measurements (LxWxH) mm	ca. 704 x 650 x 585
Weight	ca. 334 kg
POS-750A	Item no.: 02.30.01.10710 (old:71801165)
POS-750AC	Item no.: 02.30.01.10720 (old:71801165AC)
POS-750ACR*	Item no.: 02.30.01.10740
POS-750ACS	Item no.: 02.30.01.10730

* no full robot axis 360° + overlap welding



- 1 Downward tilting
- 2 Upward tilting
- 3 2-cycle/4-cycle
- 4 Rotating direction cw/ccw
- 5 Stop
- 6 Start
- 7 Rotating speed

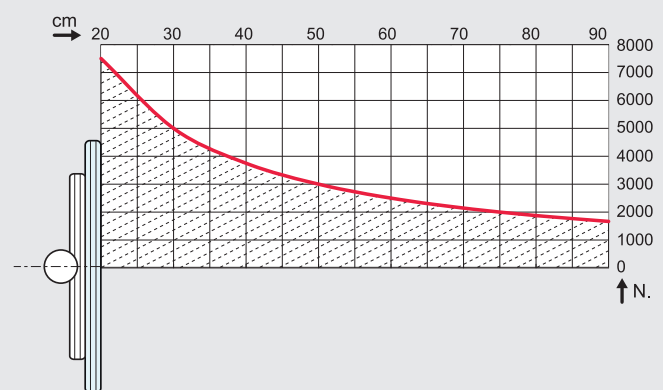
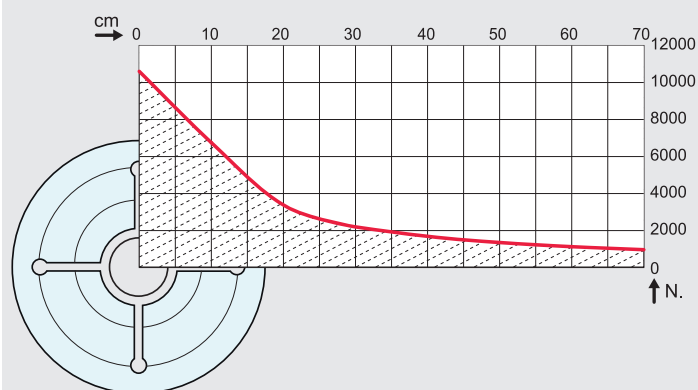
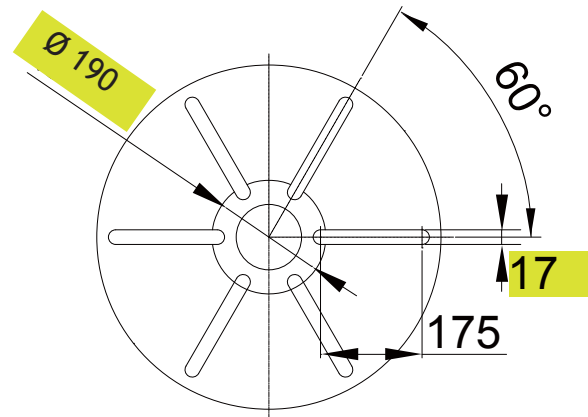
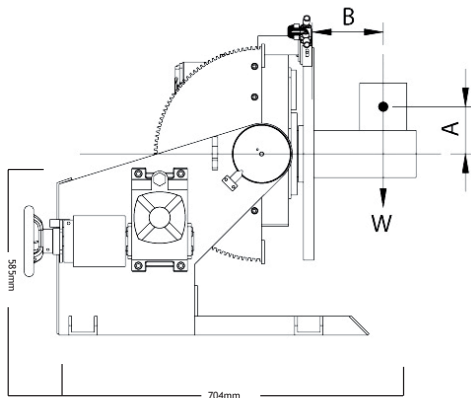
Fernbedienung AC

Positioners, medium-weight

Welding Positioner POS-750

At the push of a button

Due to the motor-driven tilt rotation, many different welding jobs can be done in flat position. For automated welding: 2-cycle/4-cycle function and welding start/stop signal for the welding device.



When choosing your positioner, please note the center of gravity of your workpiece incl. your tensioning device.

Functions

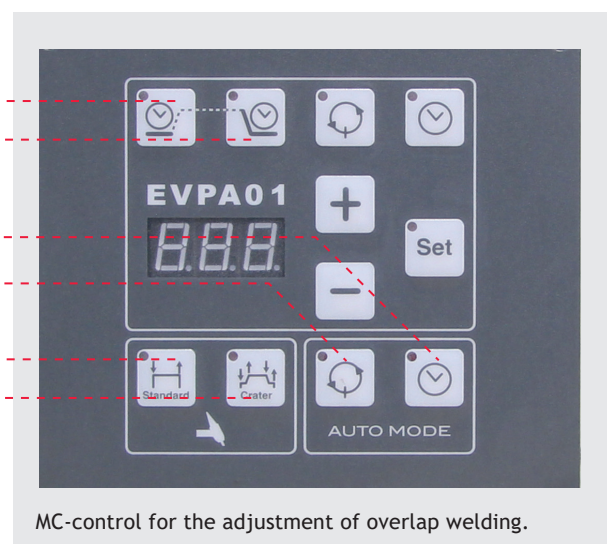
POS-750AC

- 1 Pre-welding time
- 2 Crater filling
- 3 Turning time
- 4 Overlap welding time
- 5 2-cycle welding
- 6 4-cycle welding with crater filling

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MC-control for the adjustment of overlap welding.

Positioners, medium-weight

Welding Positioner POS-1TAC

With 120 mm hollow shaft

Perfectly positioned

When choosing a turntable, the turning and tilting moment must be considered. For the mounting of eccentric workpieces we recommend to use counter-weights.

TA = motor-driven tilting

TAC = motor-driven tilting with overlap welding

TACR = motor-driven tilting with overlap welding and robotic interface



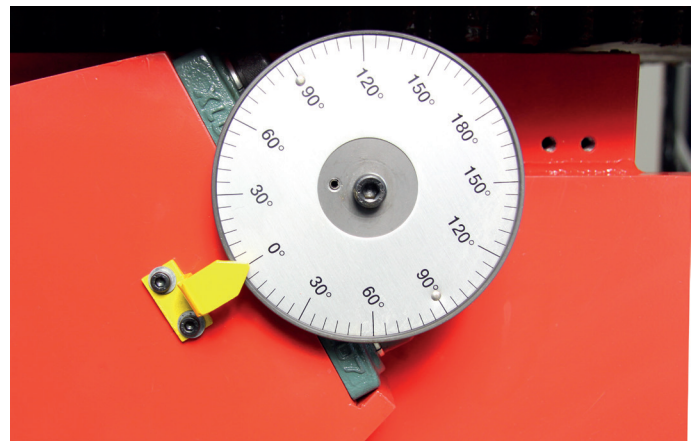
Features

- Robust design.
- Infinitely variable speed control.
- Hand remote control.
- HF-protected.



Productvideo on www.javac.org

Model	POS-1TAC
Supply voltage	AC 400V/18A/50Hz
Ground connection	1000 A/100 %
Tilting range	0° – 135°
Table diameter	900 mm
Hollow shaft	120 mm
RPM standard	0,05 – 0,5 rpm
optional: servo-motor	0,05 – 5,0 rpm
Rotating directions	cw/ccw
Remote control	RPM & rotating dir. adjustable
Max. vertical load	1000 kg
HF-protection	100 %
Measur. (LxW x H) mm	1050 x 935 x 801
Weight	750 kg
Item no. TA	02.30.02.11010
Item no. TAC	02.30.02.11020 (old:71801152)
Item no. TACR	02.30.02.11030

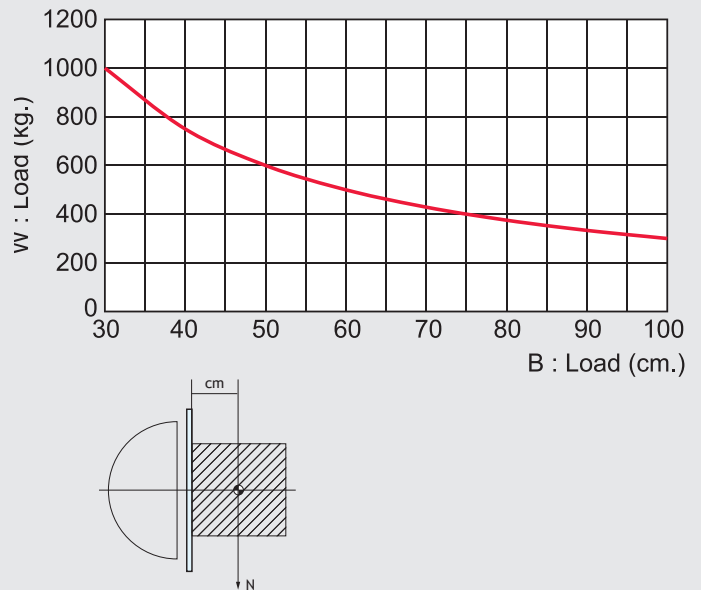
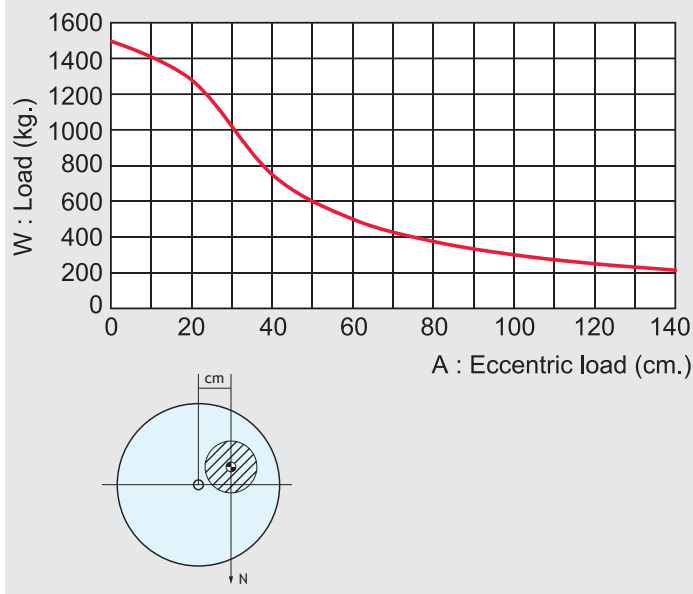


Scope of delivery:

- 1 Control unit (integrated)
- 1 Start/Stop foot switch
- 1 Cable remote control

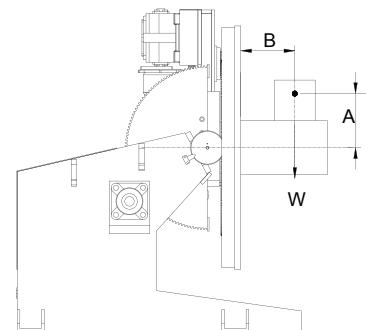
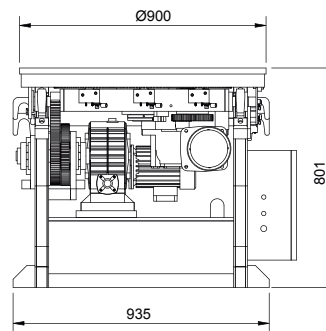
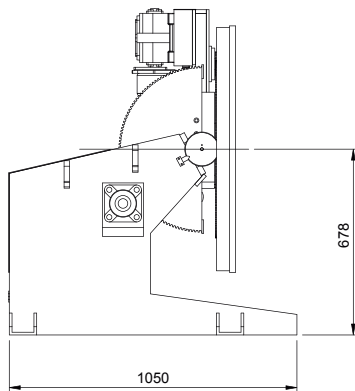
Positioners, medium-weight

Welding Positioner POS-1TA



When choosing your positioner, please consider

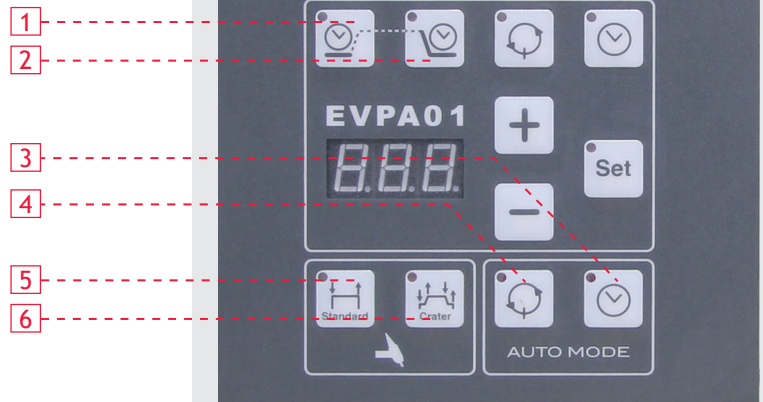
- the center of gravity of your workpiece
- the weight of your tensioning device (chuck)



Functions

POS-TAC

- 1 Pre-welding time
- 2 Crater filling
- 3 Turning time
- 4 Overlap welding time
- 5 2-cycle welding
- 6 4-cycle welding with crater filling



MC/AC-control for the adjustment of overlap welding.

Positioners, heavy-duty

Welding Positioner POS-TW

For heavy industries

When choosing a turntable, the turning and tilting moment must be considered by all means. The distance between the center of gravity of the workpiece and the faceplate must be considered and the eccentric distance of the center of gravity and the center respectively. Workpieces can be optimally positioned for welding with a turning and tilting table.

Features

- Robust design.
- Infinitely variable speed control.
- Hand remote control.
- HF-protected.



Scope of delivery:

- 1 Control unit (integrated)
- 1 Cable remote control



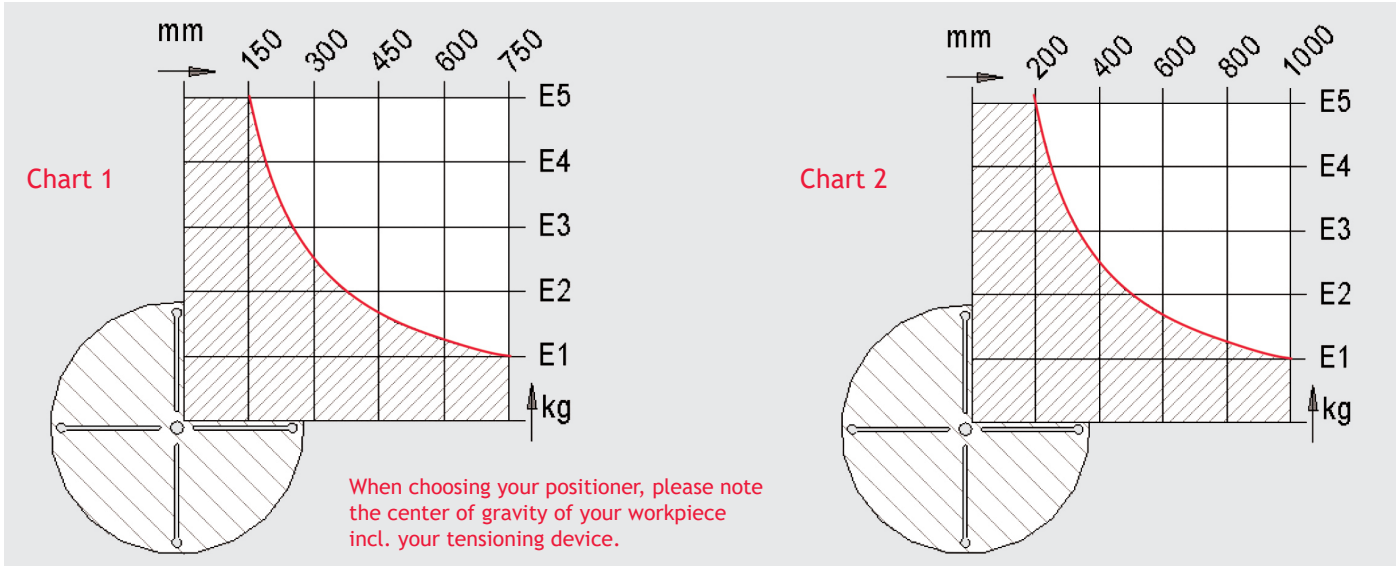
Model	POS-1TW	POS-2TW	POS-3TW	POS-4TW
Load capacity	1 t	2 t	3 t	4 t
Max. rotation torque	2000 Nm	4000 Nm	6000 Nm	8000 Nm
Max. tilt torque	3000 Nm	6000 Nm	9000 Nm	12.000 Nm
Centre of gravity	300 mm	300 mm	300 mm	300 mm
Eccentricity	200 mm	200 mm	200 mm	200 mm
Rotation speed	0,12 – 1,2 u/min	0,1 – 1,0 u/min	0,05 – 0,5 u/min	0,05 – 0,5 u/min
Tilt speed	0,35 u/min	0,35 u/min	0,35 u/min	0,35 u/min
Tilt range(°)	0 – 135°	0 – 135°	0 – 130°	0 – 130°
Max turning dia at 90 deg	1350 mm	1630 mm	1750 mm	1850 mm
Table diameter	900 mm	1100 mm	1300 mm	1300 mm
Measurements (LxWxH) mm	1475 x 1050 x 900	1640 x 1150 x 1000	1800 x 1350 x 1050	1800 x 1350 x 1050
Max. welding current	500 A	500 A	700 A	700 A
Item no.	71701000	71702000	71703000	71704000

Model	POS-5TW	POS-6TW	POS-8TW	POS-10TW
Load capacity	5 t	6 t	8 t	10 t
Max. rotation torque	10.000 Nm	12.000 Nm	16.000 Nm	20.000 Nm
Max. tilt torque	15.000 Nm	18.000 Nm	32.000 Nm	40.000 Nm
Centre of gravity	300 mm	300 mm	400 mm	400 mm
Eccentricity	200 mm	200 mm	200 mm	200 mm
Rotation speed	0,05 – 0,5 u/min	0,05 – 0,5 u/min	0,02 – 0,2 u/min	0,02 – 0,2 u/min
Tilt speed	0,2 u/min	0,2 u/min	0,2 u/min	0,2 u/min
Tilt range(°)	0 – 130°	0 – 130°	0 – 130°	0 – 130°
Max turning dia at 90 deg°	2000 mm	2180 mm	2300 mm	2500 mm
Table diameter	1500 mm	1600 mm	1800 mm	2000 mm
Measurements (LxWxH) mm	2200 x 1600 x 1200	2200 x 1600 x 1300	2500 x 1800 x 1425	2720 x 2000 x 1600
Max. welding current	700 A	700 A	1000 A	1000 A
Item no.	71705000	71706000	71708000	717010000

Positioners, heavy-duty

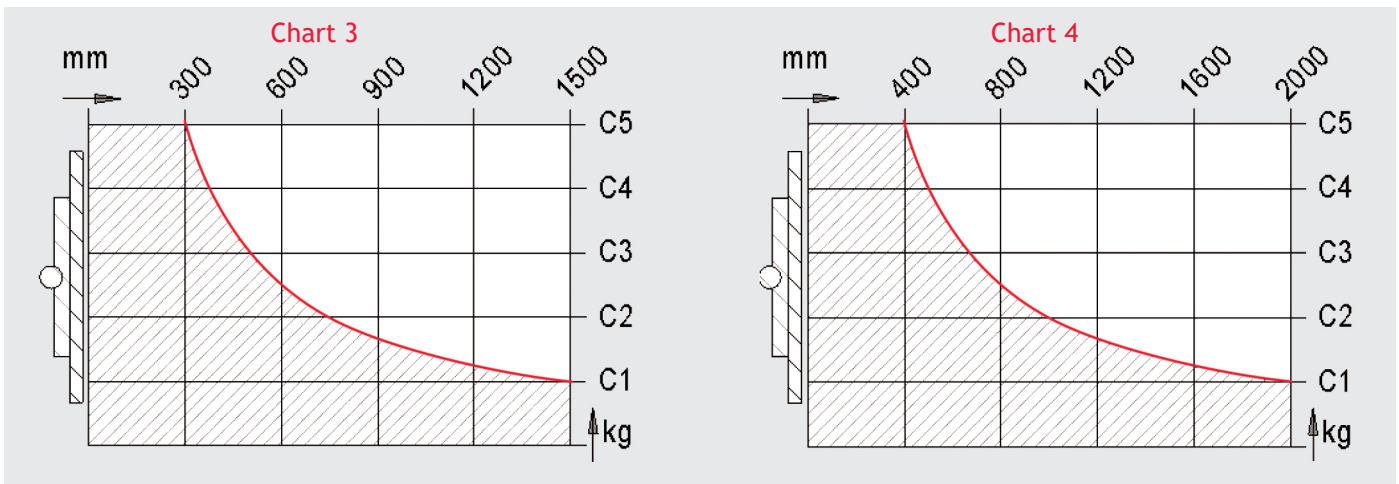
Welding Positioner POS-TW

Eccentric load (E)



Eccentric	POS-1TW	POS-2TW	POS-3TW	POS-4TW	POS-5TW	POS-6TW	POS-8TW	POS-10TW
Chart 1			Chart 2					
E1	200	400	600	800	1000	1200	1600	2000
E2	400	800	1200	1600	2000	2400	3200	4000
E3	600	1200	1800	2400	3000	3600	4800	6000
E4	800	1600	2400	3200	4000	4800	6400	8000
E5	1000	2000	3000	4000	5000	6000	8000	10000

Centric load (C)



Centric	POS-1TW	POS-2TW	POS-3TW	POS-4TW	POS-5TW	POS-6TW	POS-8TW	POS-10TW
Chart 3							Chart 4	
C1	200	400	600	800	1000	1200	1600	2000
C2	400	800	1200	1600	2000	2400	3200	4000
C3	600	1200	1800	2400	3000	3600	4800	6000
C4	800	1600	2400	3200	4000	4800	6400	8000
C5	1000	2000	3000	4000	5000	6000	8000	10000

Positioners, heavy-duty

Welding Positioner POS-TS series

For speed ranges from 0,05 to 5 rpm

Flexible speeds

Workpieces can be optimally positioned for welding with turning and tilting table of the POS-TS series.

Many different welding jobs can be effected in flat position thanks to the motor-driven tilt rotation.

Features

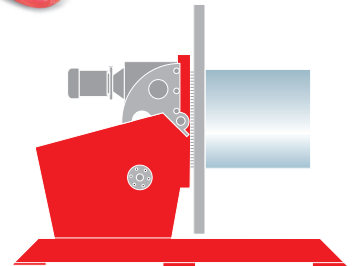
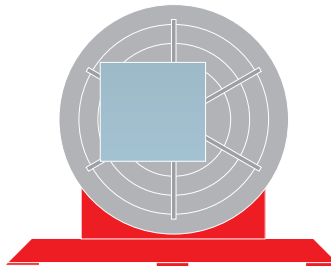
- Infinitely variable speed control.
- Robust design.
- Welding parameters preadjustable.
- Remote control for
 - start/stop
 - speed.



Pic. similar

Scope of delivery:

Cable remote control
Foot switch



Model	POS-1TS	POS-2TS	POS-3TS	POS-4TS	POS-5TS
Load capacity	1 t	2 t	3 t	4 t	5 t
Eccentric load (distance from table)	200 mm	200 mm	200 mm	200 mm	200 mm
Center of gravity load (distance from table)	300 mm	300 mm	300 mm	300 mm	300 mm
Table diameter	900 mm	1100 mm	1300 mm	1300 mm	1500 mm
Rotating speed	0,05 – 5 u/min (Servo motor)				
Rotating power	1,3 KW	1,8 KW	2,9 KW	4,4 KW	5,5 KW
Tilting speed	0,35 u/min	0,35 u/min	0,35 u/min	0,35 u/min	0,2 u/min
Tilt angle	135°	135°	130°	130°	130°
Welding current	500 A	500 A	700 A	700 A	700 A
Overall table height	900 mm	1000 mm	1050 mm	1050 mm	1200 mm
Power supply	400V±10%, 50Hz±1%				
Protection class	IP54				

Positioners, heavy-duty

Hydraulic Welding Positioner YHB

Useful and versatile

YHB positioners are the best solution for lifting, turning and tilting difficult workpieces. For automated welding, they have 2-cycle/4-cycle as well as start/stop signal for the welding device.



Product presentation on www.javac.org

Scope of delivery:

- 1 Control device (integr.)
- 1 Cable remote control

Optional:

- 2-cycle/4-cycle control
- welding start/stopp

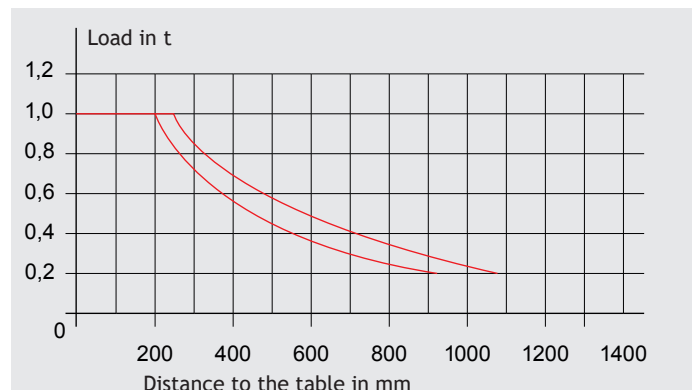
POS-YHB06 from (PC B)

11.000,- €

Pic. similar



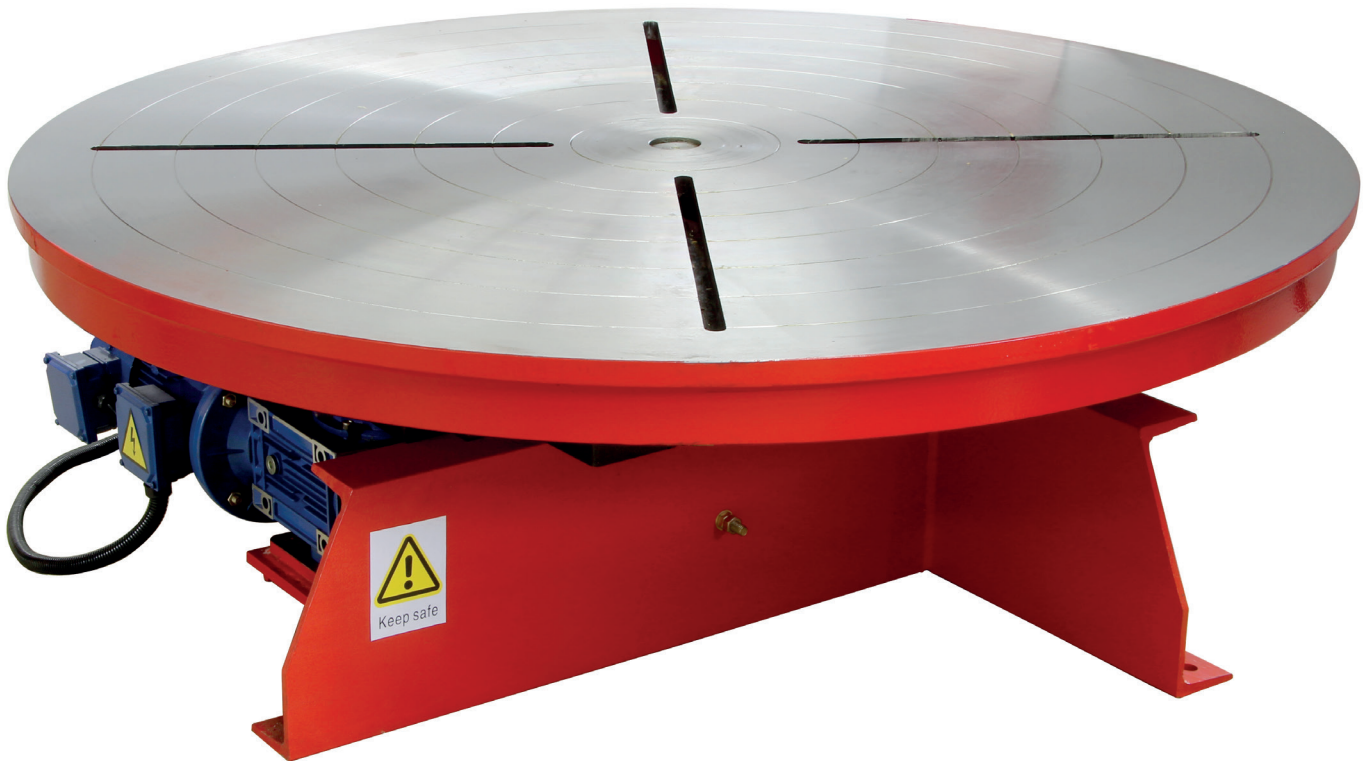
Model	YHB06	YHB1	YHB2	YHB3	YHB5	YHB10
Load capacity	0,6 t	1 t	2 t	3 t	5 t	10 t
Center of gravity load	250 mm	250 mm	250 mm	300 mm	300 mm	400 mm
Excentric load	200 mm	200 mm	200 mm	200 mm	200 mm	200 mm
Table diameter	900 mm	900 mm	1.000 mm	1.400 mm	1.500 mm	2.000 mm
Rotation motor power	0,37 Kw	0,75 Kw	0,75 Kw	1,1 kW	1,5 kW	3,0 kW
Table height from floor	599 – 1399 mm	599 – 1399 mm	699 – 1499 mm	788 – 1694 mm	950 – 1730 mm	1340 – 2678 mm
Rotating speed	0,1 – 1,0 rpm	0,1 – 1,0 rpm	0,1 – 1,0 rpm	0,05 – 0,5 rpm	0,05 – 0,5 rpm	0,05 – 0,5 rpm
Tilting angle	135°	135°	135°	135°	120°	130°
Size (LxWxH max in mm)	1400 x 1122 x 1500	1780 x 1142 x 1550	1600 x 1240 x 1650	2248 x 1480 x 1896	2709 x 1700 x 1855	3935 x 2000 x 2678
Hydraulic motor power	1,1 kW	1,1 kW	1,1 kW	1,5 kW	1,5 kW	3,0 kW
Hydraulic pressure	20 mpa	20 mpa	20 mpa	20 mpa	20 mpa	20 mpa
Item no.	02.30.03.00006	02.30.03.00010 (old: 71842010)	02.30.03.00020	02.30.03.00030 (old: 71842030)	02.30.03.00050	02.30.03.00100 (old: 71842100)



All YHB positioners have an input voltage of: 3P, 400V, 50 HZ

Positioners, heavy-duty

Horizontal Turntables POS HD series



Features

- High gear ratio.
- Infinitely variable.
- Fast rotation.
- Dynamic brake.
- Speed remote control.

Scope of delivery:

Control unit (integrated)
Hand remote control

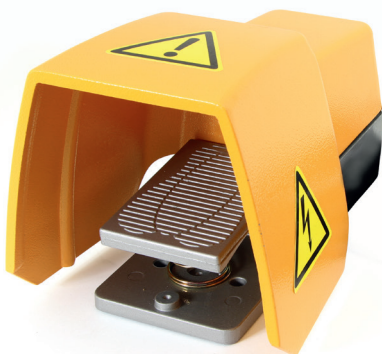
Model	POS 5 HD	POS 10 HD	POS 20 HD	POS 30 HD	POS 50 HD	POS 100 HD
Load	5 t	10 t	20 t	30 t	50 t	100 t
Rotating speed	0,05 – 0,5 rpm	0,05 – 0,5 rpm	0,05 – 0,5 rpm	0,05 – 0,5 rpm	0,025 – 0,25 rpm	0,02 – 0,2 rpm
Torque	1600 Nm	2800 Nm	6000 Nm	6000 Nm	16800 Nm	30000 Nm
Table diameter	1500 mm	1800 mm	2000 mm	2200 mm	2200 mm	2500 mm
Table height (ca.)	487 mm	557 mm	556 mm	600 mm	800 mm	850 mm
Power	1,1 KW	1,1 KW	1,5 KW	1,5 KW	2,2 KW	3,5 KW
Control unit	infinitely variable gear ratio					
Item no.	71843040	71843050	71843055		71843060	71843065

Foot switch

Start/Stop, Potentiometric



Model	XF-3
Function	Start/Stop
Item no.	71801167 XF3



Model	XF-88
Function	Start/Stop
Item no.	71801167 XF88



Model	XF-89
Function	2x Start/Stop
Item no.	71801167 XF89



Model	Potentiometric
Function	Start/Stop, Stepless regulation
resistance standard	10 K Ω or 15 K Ω
resistance optional	By order please give up the desired value
Item no. 10 K Ω	243391015.0015
Item no. 15 K Ω	243391015.0017

All Foot switches will be delivered without cable

Chucks

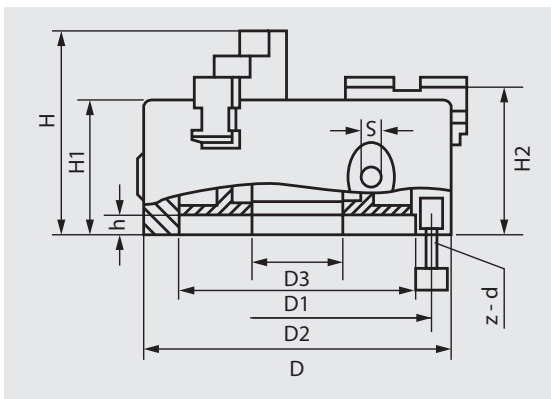
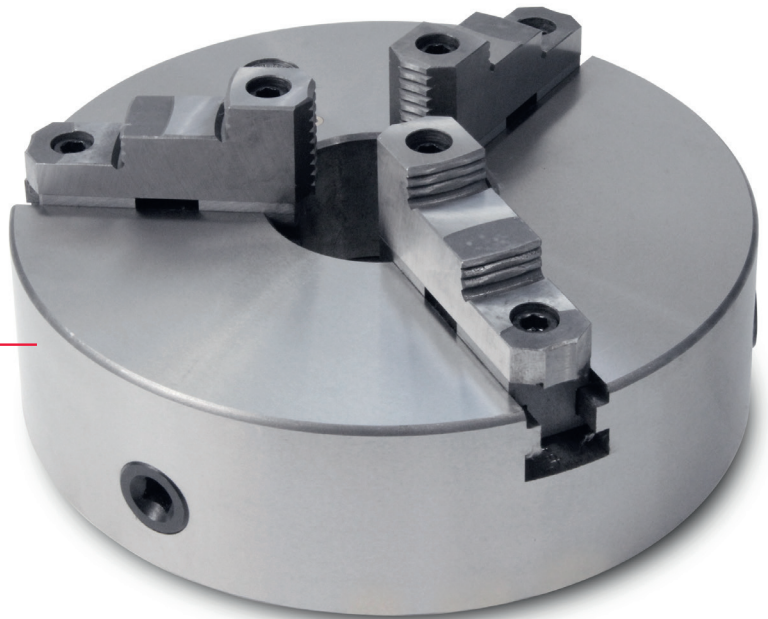
Three-jaw Chuck for Turntables

Precisely fitting

We offer a multitude of different chucks for chuck tensioning, above all on welding turntables. Every workpiece diameter from 2 mm up to 1530 mm can be fixed. In addition to our "Chuck series" we now have "Chuck 500" in our product range for the excellent positioning of very heavy workpieces.

Features

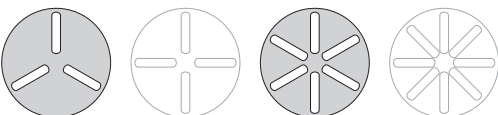
- Universally applicable.
- Self-retaining tension.
- Extra set of soft chuck jaws which can be finished for increased fitting accuracy.



Scope of delivery:
1 Three-jaw chuck
1 Wrench

Size (D)	D1	D2	D3	H	H1	H2	h	S	z - d	Max load	Weight
Chuck 160-D	130	142	40	95	65	-	5	10	3 - M8	160 Nm	8,8 kg
Chuck 200-D	165	180	65	109	75	-	5	12	3 - M10	250 Nm	15,5 kg
Chuck 325-D	272	296	100	154,5	96	102,5	12	13	3 - M16	400 Nm	44 kg
Chuck 500-D	440	465	210	184	115	-	6	17	6 - M16	630 Nm	124 kg

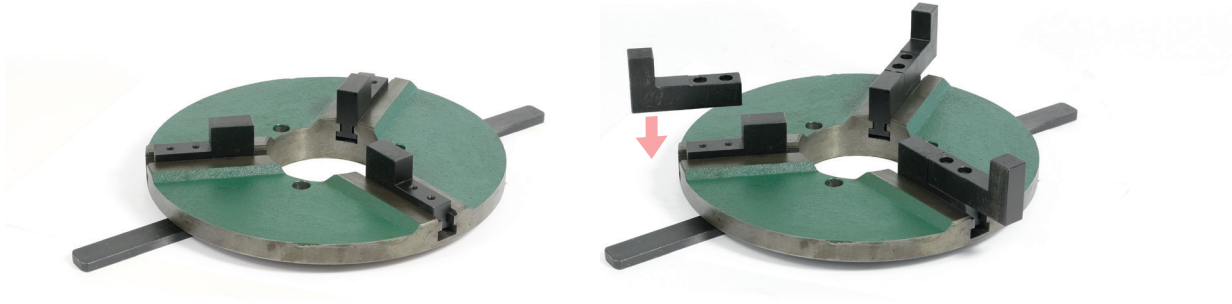
Model	Chuck 160-D	Chuck 200-D	Chuck 325-D	Chuck 500-D
Drilling	40 mm	65 mm	100 mm	210 mm
Inner tensioning range	3 – 145	4 – 200	11,5 – 340	25 – 500
Outer tensioning range	50 – 160	65 – 200	95 – 350	150 – 500
Mounting hole circle	142 mm	180 mm	296 mm	465 mm
Fixture	3-M10	3-M10	3-M16	6-M16
Item no.	91919008	91919012	91919016	91919024



The jaw chuck of this series fit without modifications to the JAVAC rotary tables with three and six grooves.

Chucks

Quick action chuck for turntables

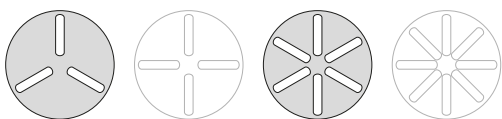


Features

- Extra flat design made of cast iron with hollow shaft.
- Low weight.
- Changes center of gravity minimally.

Left: Chuck 300
Right: Chuck 300 JW with a set of additional clamp jaws

Model	*Chuck 200 JW	Chuck 300 JW	Chuck 400 JW	Chuck 500	Chuck 600
Hollow shaft	80 mm	100 mm	170 mm	240 mm	365 mm
Diameter	200 mm	300 mm	400 mm	500 mm	600 mm
Diameter + lever	400 mm	480	580 mm	–	840 mm
Outer tensioning range	20 – 130mm	80 – 190mm	120 – 250mm	360 – 500 mm	450 – 600 mm
Inner tensioning range	110 – 210mm	170 – 280 mm	250 – 380mm	200 – 340 mm	300 – 450 mm
Extended tens. range	5 – 300mm	10 – 400mm	20 – 500mm	–	–
Mounting hole circle	100 mm	120 mm	220 mm	280 mm	400 mm
Tension force	200 kg	250 kg	350 kg	800 kg	1200 kg
Max. load	80 kg	120 kg	240 kg	600 kg	1000 kg
Weight	7,5	12 kg	25 kg	42 kg	80 kg
Fixture	3-M8 x 35	3-M8 x 30	3-M10 x 40	3-M12 x 55	3-M12 x 110
Item no.	91919110	9191919111	919191116	91919202	91919206



The jaw chuck of this series fit without modifications to the JAVAC rotary tables with three and six grooves.

Mounting plate for chucks



Chuck	PRO2	PRO3	PRO4	POS300	POS500	POS750
*Chuck 200 JW	x	x	x	x	x	x
Chuck 200-D			x			x
Chuck 300 JW	x	x	x	x	x	x

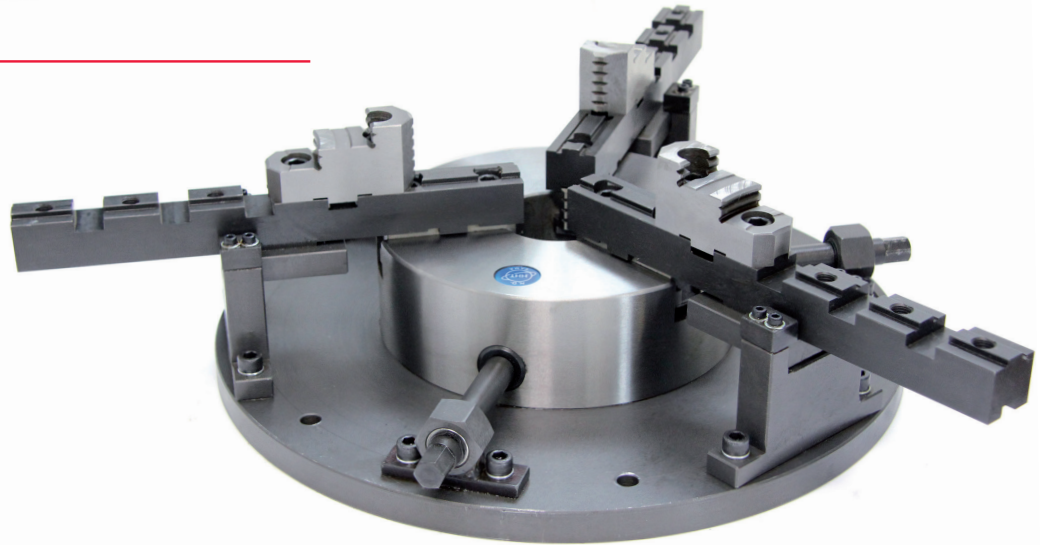
* for the Chuck 200JW you need for all turntables the mounting plate with the item number: 9191912125 (please note for Pro4 the hollow shaft can only be used up to 80 mm)

External diameter 300 mm
Drill 80 mm
Item no.: 91919125

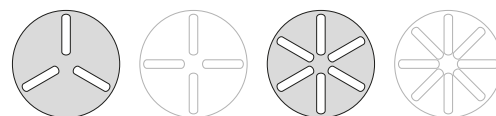
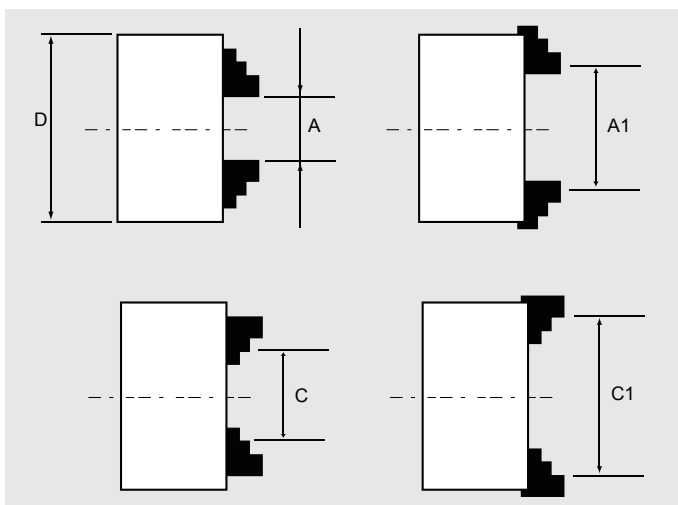
Three-jaw chucks with high tension

Features

- Solid format.
- High tension force.
- Ideal for the JAVAC-turntable series POS 300, POS 500 and POS 750



Model	RD-8	RD-10	RD-13	RD-15
Max. load	600 kg	800 kg	860 kg	1000 kg
Basic plate Ø	400 mm	480 mm	580 mm	~700 mm
Tens. range A - A1	4 - 480 mm	6 - 548 mm	10 - 691 mm	15 - 875 mm
Tens. range C - C1	65 - 600 mm	90 - 688 mm	100 - 866 mm	120 - 1045 mm
Mounting hole circle	320 mm	420 mm	500 mm	530 mm
Weight	44 kg	68 kg	122 kg	174 kg
Tensioning force	2400 kg	3200 kg	3400 kg	3000 kg
Item no.	91919250	91919254	91919258	91919260
Ideal for	POS 300	POS 500	POS 750	



The jaw chuck of this series fit without modifications to the JAVAC rotary tables with three and six grooves.

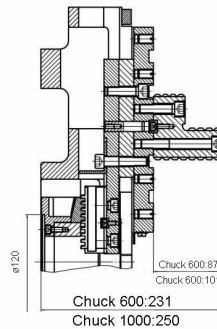
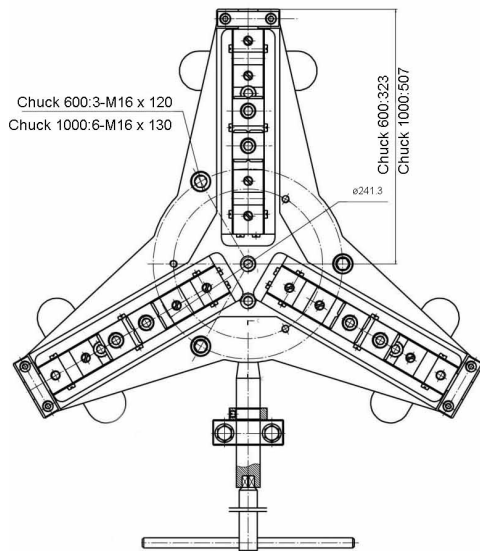
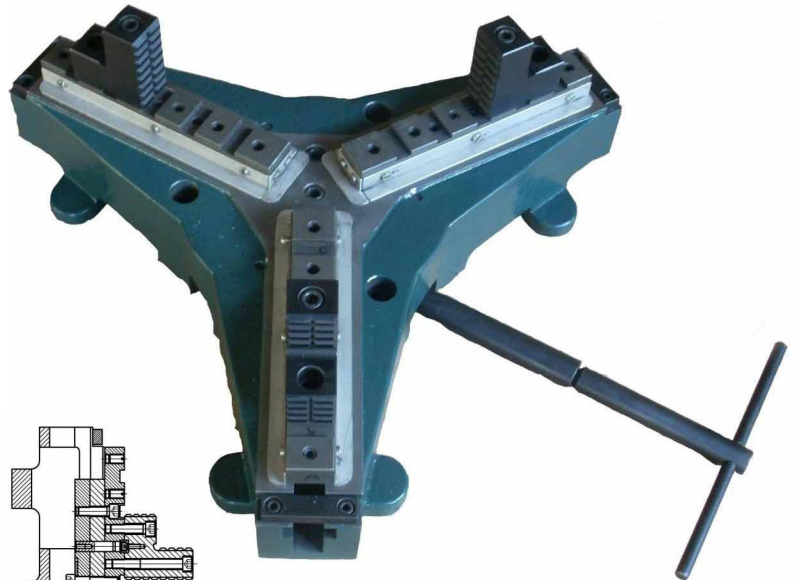
Chucks

Three-jaw chucks with large tension

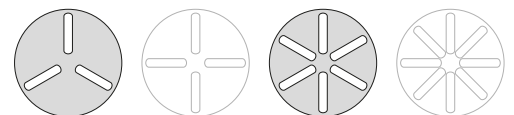
Three-jaw chucks – for heavy loads

Features

- Chuck for tensioning workpieces, especially for welding.
- Robust design.
- Closed housing.
- Jaws can be adjusted fast and easily to different diameters.



The jaw chuck of this series fit without modifications to the JAVAC rotary tables with three and six grooves.



Model	Chuck 600	Chuck 1000	Chuck 1200	Chuck 1600
Tensioning range	50 – 600 mm	50 - 1.000 mm	50 – 1.200 mm	50 – 1.600 mm
Mounting hole circle	280 mm	350 mm	350 mm	515 mm
Hollow shaft	no	no	no	
Max. load	1.000 kg	2.000 kg	2.000 kg	3.000 kg
Weight	100 kg	180 kg	220 kg	300 kg
Item no.				

Support Block

Support Block

The Quattro Support Heavy Duty Pipe Stands are the ideal solution for heavy duty pipe handling, in the workshop or for site applications.

The Large V-Head, heavy duty base and variety of head options make the Quattro the most durable and versatile pipe stand on the market.

The Quattro stand can be used as a simple jack stand, supplied as standard with levelling pads to accommodate uneven working surfaces. Weight load tested to 2,265kg / 5,000lbs per stand.

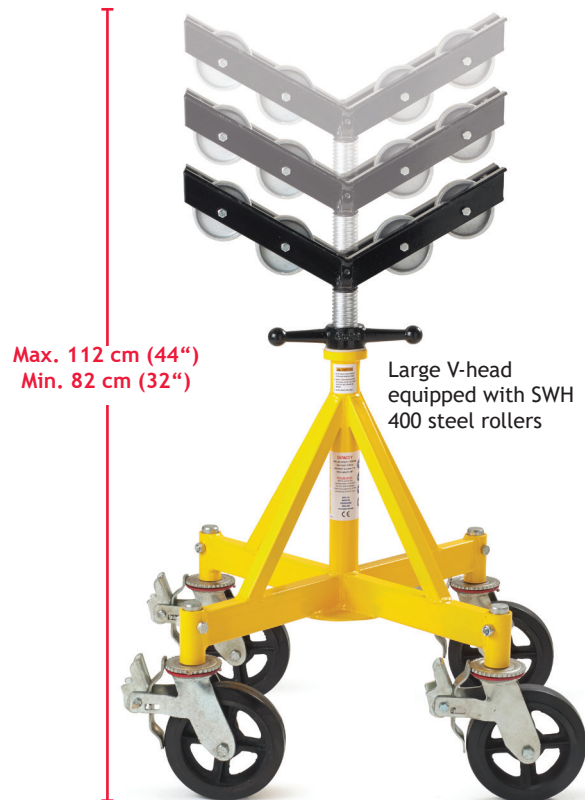
The Quattro stands can also be supplied with lockable 8" castor wheels so pipes of up to 36" diameter and any length can be moved around a workshop or site, without the need for a crane or forklift.

Features

- Load capacity 2,265kg / 5,000lbs
- Variety of head options available
- Optional castor wheels for pipe transportation
- Height adjustable
- Heavy duty box section construction
- CE Conformity Certified with CE Mark



Adjustment screws as standard equipment








Large V-head equipped with SWH 400 steel rollers

Shown with RWK400 wheelset



Support Block

Support Block

Item no.: 02.20.12.00010	Base Unit (complete with levelling pads) , Load: 2265 kg, Weight: 10 kg	
Item no.: 02.20.12.00020	Wheel set Four 8" (20cm) heavy duty wheels make up the Quattro Stand Roller Wheel Kit. The wheels have a quick action brake system.. Load: 1225 kg, Weight: 11 kg	
Item no.: 02.20.12.0030	V-head up to 36" Load: 2265 kg, Weight: 8,5 kg, Size: 1-36"	
Item no.: 02.20.12.00040 (Steel) 02.20.12.00050 (Stainless) 02.20.12.00052 (Nylon)	Steel, stainless steel and nylon Wheel suitable for V-head 4 piece Set Steel and stainless steel balls suitable for Large V-Head Set of 2 Wheel set These four-wheel sets can be easily mounted into the V-head to rotate the tube. Stainless steel wheels are available for applications such as Load: 1200 kg (Nylon wheels: 450), Weight: 4 kg (Nylon wheels: 1,8 kg), Size: 1-36"	
Item no.: 02.20.12.00060 (Steel) 02.20.12.00070 (Stainless)	Steel and stainless steel balls suitable for Large V-Head, Set of 2	

Note



Thermal Dynamics® power source
Auto-Cut 200XT and 300XT
on page 27.

Support Block

Support Block

Three-leg Support Block

Three-leg Support Block are constructed from square tube section and are available with a variety of different head styles to suit any application.

Features

- 28,6 mm Square tube section construction
- 1.585 kg load capacity
- Choice of fixed leg base or folding leg base
- Folding legs allow an easy storage and transportation
- Comprehensive range of different head styles
- height adjustable from 71 to 122 cm
- independent tested load
- CE Conformity Certified with CE Mark

Adjusting screws as standard equipment



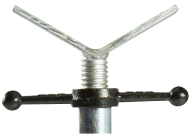




Three-leg Fixed Stand
fitted with:
Standard V-Head



Support Block

Support Block

Item no.: 02.20.12.01010	Three-leg Fixed Stand Load: 1585 kg, Weight: 7,6 kg, Size.: 24"	
Item no.: 02.20.12.01020	Three-leg Folding Stand Load: 1585 kg, Weight: 7,6 kg	
Item no.: 02.20.12.01030	V-Head Load: 1585 kg, Weight: 3,4 kg, Size: up to 12"	
Item no.: 02.20.12.01040 (Steel) 02.20.12.01050 (Stainless)	Steel and stainless steel Ball Transfer Heads Set of 2 (mountable on V-head) Load: 450 kg, Weight: 2,5 kg, Size.: 1-12" Load: 450 kg, Weight: 2,5 kg, Size: 1-12"	
Item no.: 02.20.12.01060 (Steel) 02.20.12.01070 (Stainless) 02.20.12.01080 (Nylon)	Steel, stainless steel and nylon Wheel Heads (mountable on V-head) Load: 1000 kg, Load: 1000 kg, Load: 450 kg,	

Note

Turntables of the PRO series



Support Block

Height-adjustable support block up to 700 kg

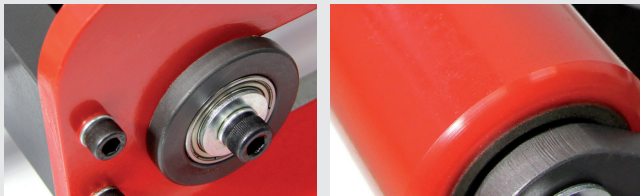
Support block with up to 700 kg load capacity

Useful and versatile

EVR series can be adapted quickly to many workpiece diameters. Especially for circular weld seams and long workpieces the support block is almost indispensable.

Features

- Robust steel construction with polyurethan coated rolls.
- Quick and easy adjustment to different workpiece diameters.



High quality, polyurethan coated rolls.

Model	EVR-300	EVR-500	EVR-700
Workpiece diameter	30 – 300 mm	75 – 600 mm	75 – 700 mm
Max. load	300 kg	500 kg	500 kg
Weight	20 kg	35 kg	57 kg
Item no.	71850020	71850030	71850040

Note

Foot switches you will find on page 119



Turnrollers

Roller Block up to 1200 kg – TR-1200

Advantages of the modular system

With our TR 1200 small containers and pipes can be positioned easily and circular weld seams can be welded. Due to its low start-up costs the purchase of the TR 1200 will pay off soon. By means of a torch holder, the welding process can be further simplified and the welder can concentrate exclusively on the control of the welding process.

Features

- Device for turning and positioning containers and cylindrical workpieces.
- Unit in solid steel construction with PU-coated metal rolls.
- Precise speed adjustment via frequency inverter.
- Foot switch for start/stop, 4-cycle operation.
- Switch for cw/ccw rotation.
- Turning knob for infinitely adjustable rotational speed.
- Changeover switch for quick/normal operation.
- Switch with control lamp for readiness for operation.
- HF-protected.

Optional:
1 Idler roller



Scope of delivery:

- 1 Drive unit with control unit (integrated)
- 1 Idler roller
- 1 Foot switch



Model	TR-1200 complete
Supply voltage	230 V 50/60 Hz
Power fuse	10 Amp
Load capacity	1.200 kg
Speed	80 – 1.600 mm/min.
Roller diameter	200 mm
Roller width	50 mm
Workpiece diameter	20 – 800 mm
Measurem. (LxWxH) mm	520x470x390
Total weight	56 kg
Item no.	02.30.10.20120 (old: 71821150)

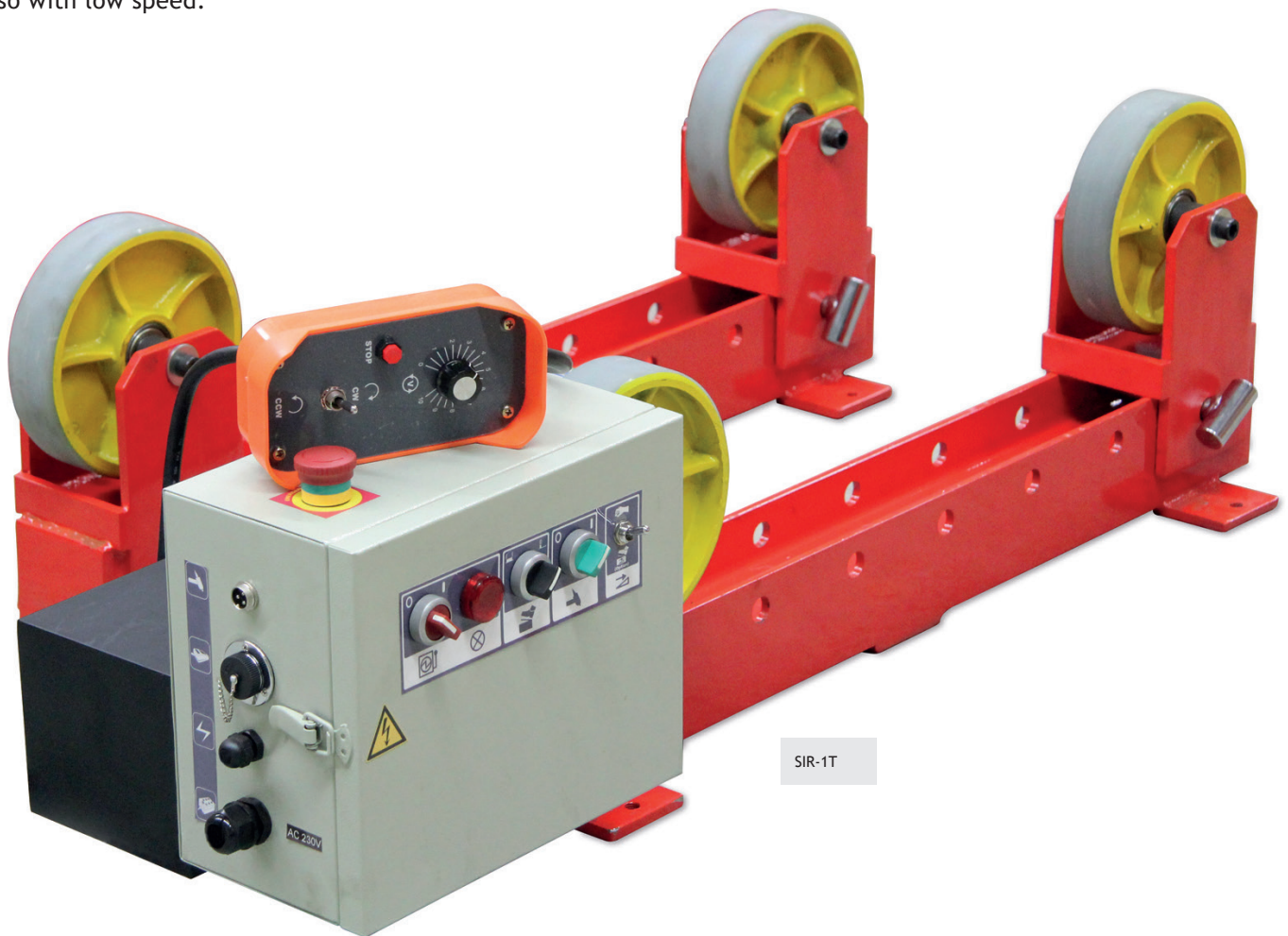
Model	TR-1200 Idler roller
Load capacity	600 kg
Roller diameter	200 mm
Roller width	50 mm
Workpiece diameter	20 – 800 mm
Weight	17 kg
Measurements (LxWxH) mm	450x160x340
Item no.	02.30.92.00012 (old: 71821150.0010)

Turnrollers

Roller Block up to 3 t – SIR

Perfect girth welds

The SIR series covers many workpiece diameters. The distance between the rolls can be increased or reduced via plug connection. The strong drive unit allows a smooth and continuous turning movement also with low speed.



SIR-1T

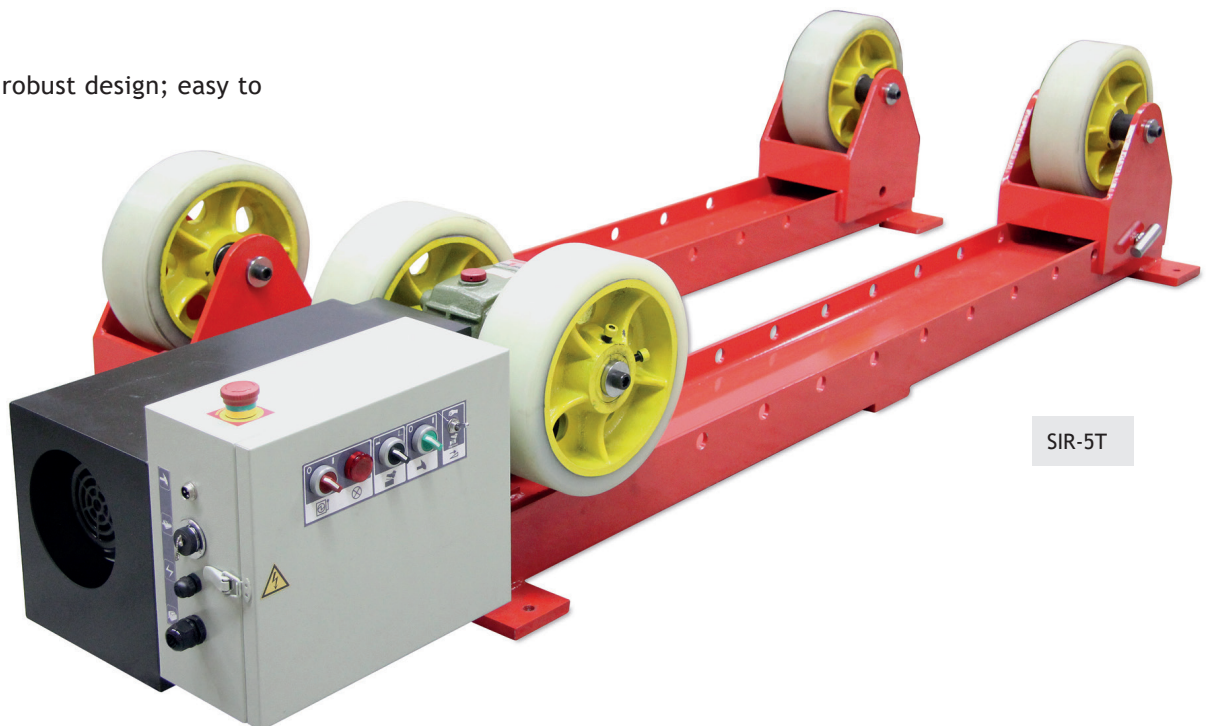
Model	SIR-1T	SIR-3T
Supply voltage	AC 230 V/50 Hz	AC 230 V/50 Hz
Max. load	1 t	3 t
Workpiece diameter	50 – 1.500 mm	150 – 2.000 mm
Roller speed	180 – 1.800 mm/min.	120 – 1.200 mm/min.
Roller size	200 x 50 mm	250 x 75 mm
Max. thermal loading	up to 80° C	up to 80° C
Weight	100 kg	154 kg
Measurements (LxW) mm	950x344	1.510x250 mm
Item no.	71821160	71821161

Turnrollers

Roller Block up to 3 t – SIR

Features

- Consisting of drive unit and idler unit.
- Smooth and continuous turning movement also at low speed.
- PU-rollers.
- Container diameter is fast and easily adjustable via plug connection.
- Hand-held remote control (3m) for the adjustment of speed and cw/ccw movement.
- Foot switch.
- Compact and robust design; easy to operate.



SIR-5T

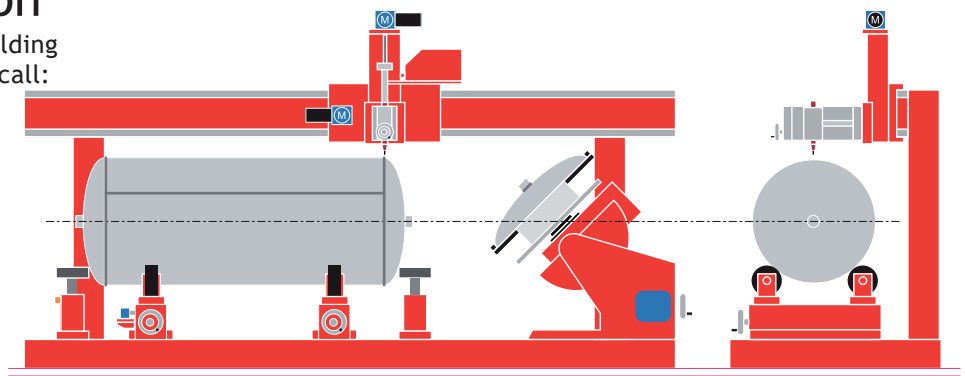
Scope of delivery:

- 1 Control unit (integrated)
- 1 Foot switch
- 1 Cable remote control

Individual Solution

We configure your circular welding unit individually. Just give us a call:

+497331/3058-0

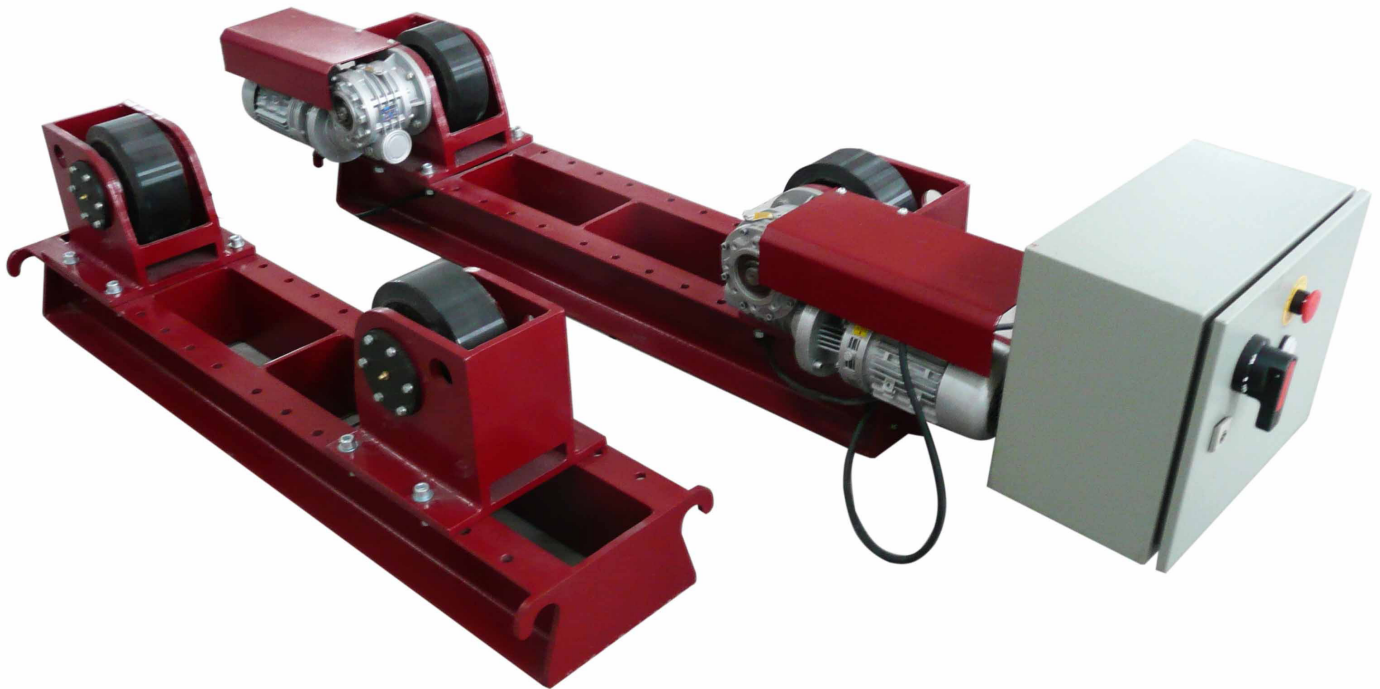


Turnrollers

Roller block series HGK up to 1000 t

Stable turning

The HGK series has two synchronous drive units that provide continuous rotation with infinitely variable speed control. The distance between the rollers can be increased and decreased manually by means of bolts in order to achieve a large diameter range of the workpieces.



Features

- For turning and positioning workpieces in the sections of mechanical engineering, container building, plant construction and pipeline construction.
- With two synchronous driven motors.
- Adjustable rotating speed.
- PU-Rolls.
- The adjustment is via bolts
- Remote control

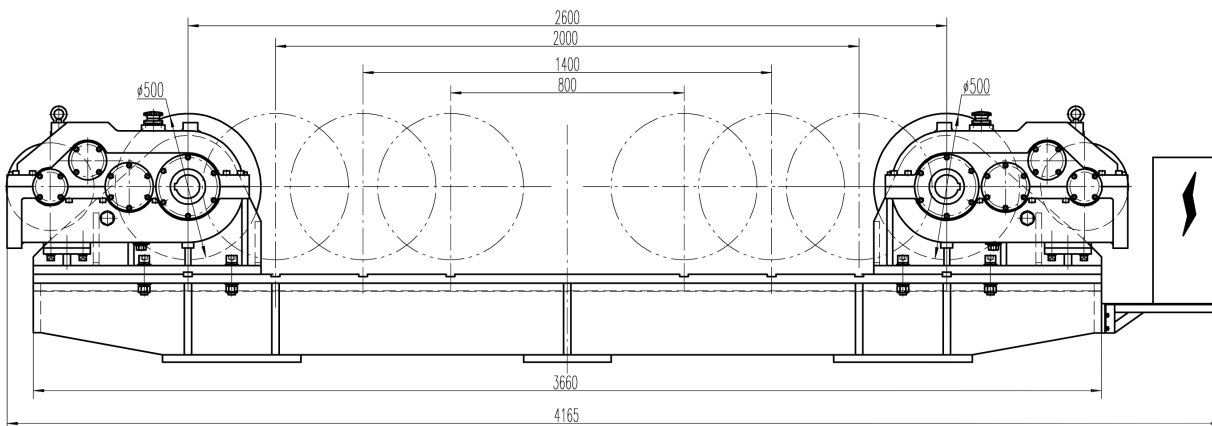
Scope of delivery:

- 1 Remote control
- 1 Control unit (integrated)
- 1 Idler

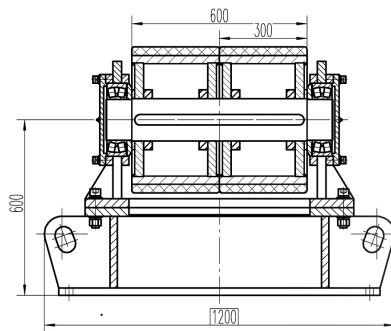
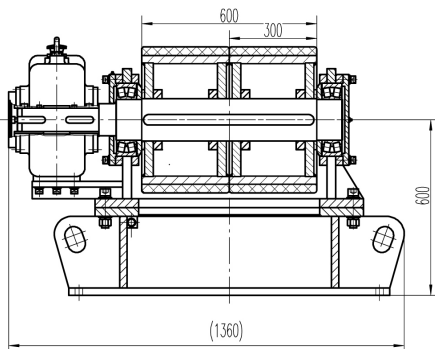
Turnrollers

Roller block series HGK up to 1000 t

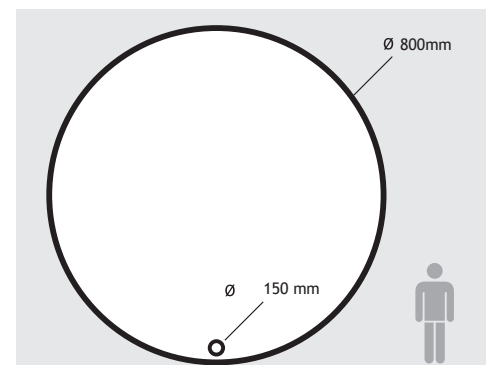
Model	Speed	Max. Load	Workpiece diameter	Motor (Kw) Power	rubber diameter	rubber rollers width
HGK-5	6 - 60 m/h	5.000 kg	250 – 2.800 mm	2x0,37	250 mm	120 mm
HGK-10		10.000 kg	300 – 3.200 mm	2x0,55	300 mm	130 mm
HGK-20		20.000 kg	500 – 4.500 mm	2x1,1	350 mm	180 mm
HGK-40		40.000 kg	500 – 5.000 mm	2x1,5	400 mm	220 mm
HGK-60		60.000 kg	800 – 6.000 mm	2x2,2	450 mm	2x 180 mm
HGK-80		80.000 kg	800 – 6.000 mm	2x3	450 mm	2x 180 mm
HGK-100		100.000 kg	800 – 6.000 mm	2x3	500 mm	2x 200 mm
HGK-160		160.000 kg	800 – 6.000 mm	2x4	550 mm	200 mm
HGK-200		200.000 kg	800 – 6.500 mm	2x4	650 mm	250 mm
HGK-250		250.000 kg	800 – 6.500 mm	2x5,5	650 mm	250 mm
HGK-300		300.000 kg	800 – 6.500 mm	2x5,5	700 mm	300 mm
HGK-500		500.000 kg	1.000 – 8.000 mm	2x7,5	750 mm	350 mm
HGK-800		800.000 kg	1.000 – 8.000 mm	2x15	850 mm	400 mm
HGK-1000		1.000 000 kg	1.000 – 8.000 mm	2x18,5	900 mm	500 mm



HGK-150



The HGK-Series:
For Workpiece diameter
from 150 mm bis zu 8.000 mm



Turnrollers

Roller block series HGZT with 2 AC motors up to 150 t

Self-centering

The HGZT series has two synchronous driven units which make continuous rotation with infinitely variable speed control. The 4 rollers joint align themselves via the diameter of the workpiece.



Features

- For turning and positioning workpieces in the field of machines, containers, plant and equipment and Pipeline construction.
- 2 AC motors
- Roller distance is self-centering
- Automatic adaptation to the workpiece with different diameters
- Two synchronous driven motors.
- Adjustable rotational speed.
- PU rollers.
- Adjustment via bolts.
- Remote control

Scope of delivery:

- 1 Remote control
- 1 Control unit (integrated)
- 1 Idler

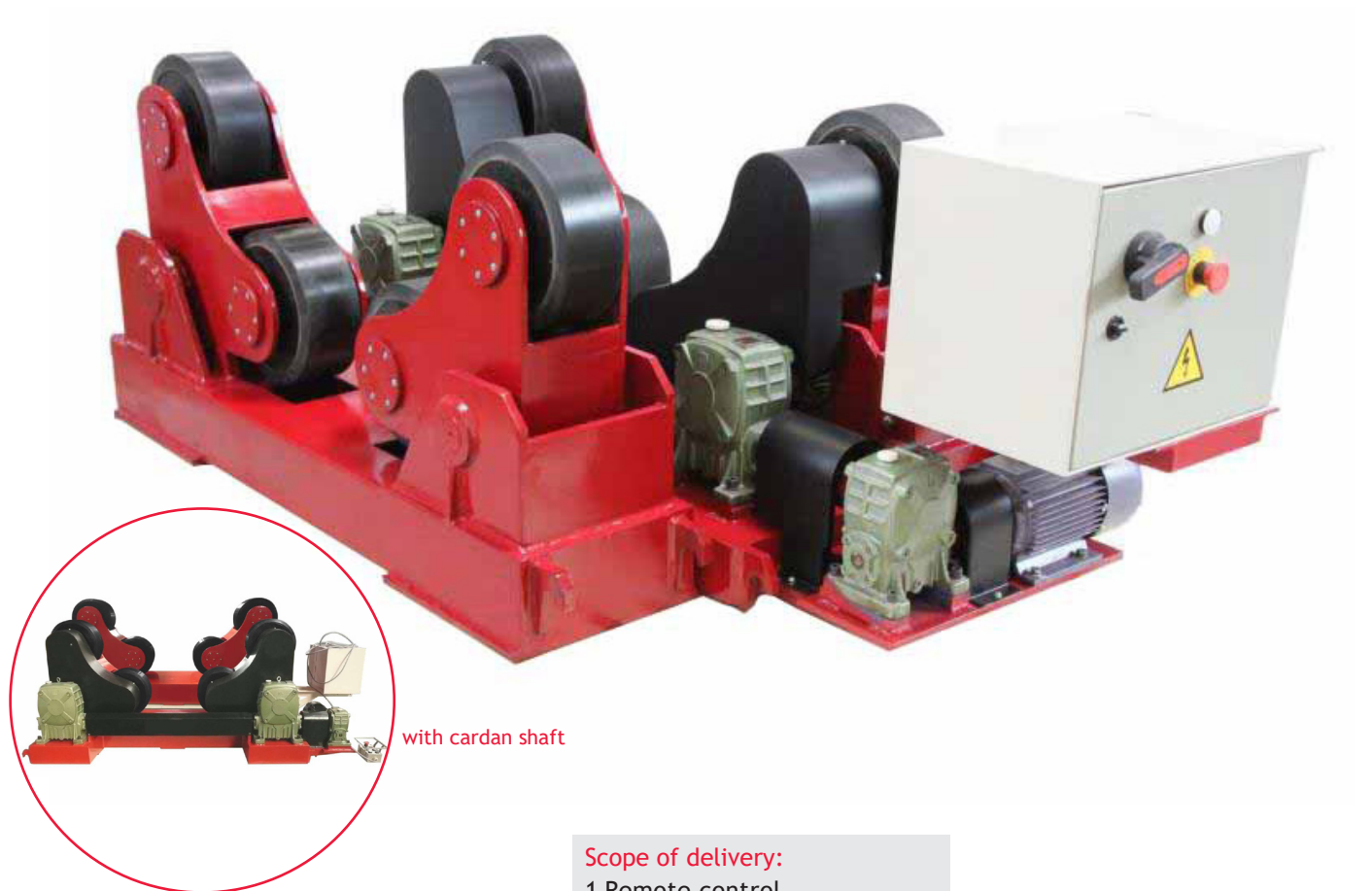
Model	Speed	Max. Load	Workpiece diameter	Motor (Kw) power	rubber diameter	rubber rollers width
HGZT-5	6 - 60 m/h	5.000 kg	250 - 2.500 mm	2x0,37	250 mm	100 mm
HGZT-10		10.000 kg	320 - 3.200 mm	2x0,55	300 mm	120 mm
HGZT-20		20.000 kg	500 - 3.800 mm	2x1,1	350 mm	150 mm
HGZT-40		40.000 kg	600 - 4.500 mm	2x1,5	400 mm	160 mm
HGZT-60		60.000 kg	750 - 5.000 mm	2x2,2	450 mm	180 mm
HGZT-80		80.000 kg	850 - 5.500 mm	2x3	450 mm	240 mm
HGZT-100		100.000 kg	1.000 - 6.300 mm	2x3	500 mm	240 mm
HGZT-150		150.000 kg	1.000 - 6.300 mm	2x4	500 mm	300 mm

Turnrollers

Roller block series HGZ with cardan shaft

Self-centering

The HGZ series has a synchronous driven unit that runs over the cardan shaft, which provides continuous rotation with infinitely variable speed control. The roller distance is self-centering, the rollers are aligned to the diameter of the workpiece.



with cardan shaft

Scope of delivery:

- 1 Remote control
- 1 Control unit (integrated)
- 1 Idler

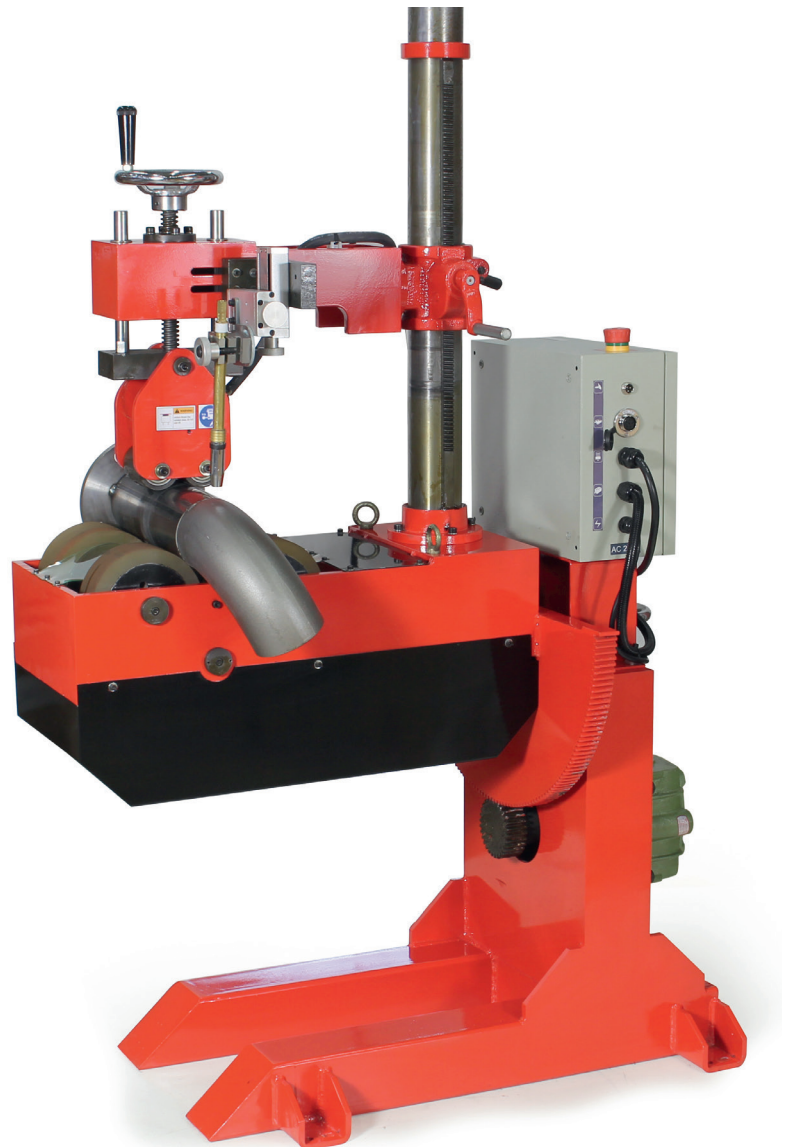
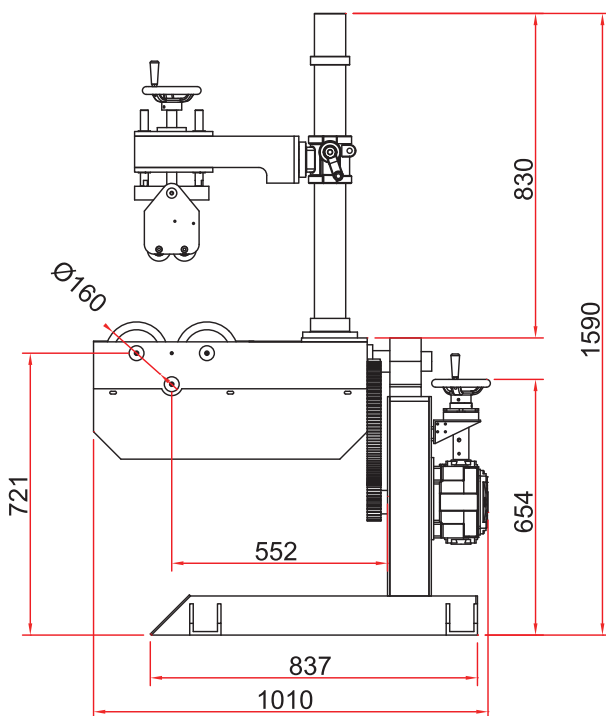
Model	Speed	Max. Load	Workpiece diameter	Motor (Kw) power	rubber diameter	rubber rollers width
HGZ-5	6 - 60 m/h	5.000 kg	250 - 2.500 mm	2 x 0,37	250 mm	100 mm
HGZ-10		10.000 kg	320 - 3.200 mm	2 x 0,55	300 mm	120 mm
HGZ-20		20.000 kg	500 - 3.800 mm	2 x 1,1	350 mm	150 mm
HGZ-40		40.000 kg	600 - 4.500 mm	2 x 1,5	400 mm	160 mm

Pipe Processing Unit

GK-200

Features

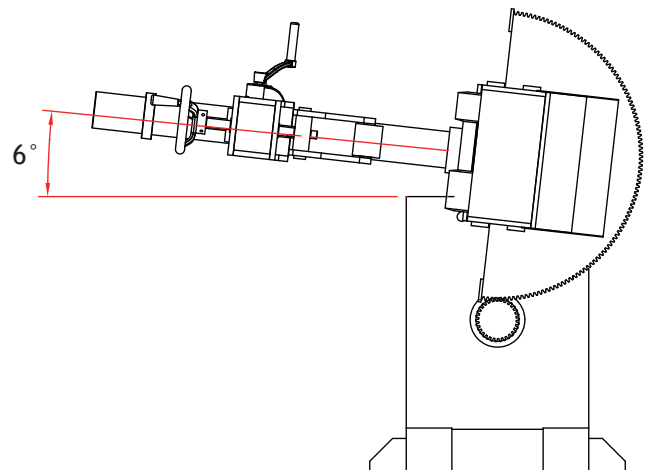
- Stable and compact construction.
- Welding, cutting and grinding possible.
- Clamping of a multitude of pipes. Also suitable for tube bends and pipes with flange.
- Fast and precise clamping without jaw chucks.



Model	GK-200
Supply voltage	AC 230 V/50 Hz
Max. load	200 kg
Workpiece diameter	60 – 300 mm
Speed	190 – 1900 mm/min.
Torque	109.8 Nm
Tilting range	80°
Tilting center height	720 mm
Speed adjustment	Inverter
Capacity	100 W
Size (LxBxH) mm	1010x646x1590
Weight	
Item no.	02.30.20.00100

Scope of delivery:

- 1 Control (integrated)
- 1 Cable remote control



Pipe Processing Unit

GK-600 and GK-1000

Features

- Stable and compact construction.
- Welding, cutting and grinding possible.
- Clamping of a multitude of pipes. Also suitable for tube bends and pipes with flange.
- Fast and precise clamping without jaw chucks.

Scope of delivery:

- 1 Control (integrated)
- 1 Cable remote control



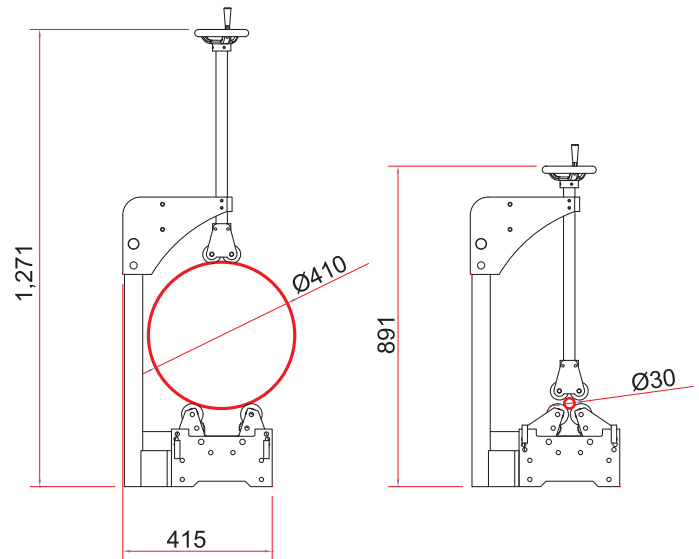
GK-1000 (pic. similar)

Model	GK-600	GK-1000
Supply voltage	380 V, $\pm 10\%$, 50 Hz	380 V, $\pm 10\%$, 50 Hz
Max. load	2 t	3 t
Workpiece diameter	60 – 600 mm	160 – 1000 mm
Speed	200 ~ 1000 mm/min.	200 ~ 1000 mm/min.
Torque	1.000 Nm	345 Nm
Tilting range	45°	45°
Tilting center height	910 mm	714 mm
Speed adjustment	Inverter	Inverter
Capacity	1,1 Kw	1,1 Kw
Size (LxWxH) mm	2030x920x2630	2700x1960x1200
Weight	1.600 kg	2.000 kg
Item no.	71860220	71860230



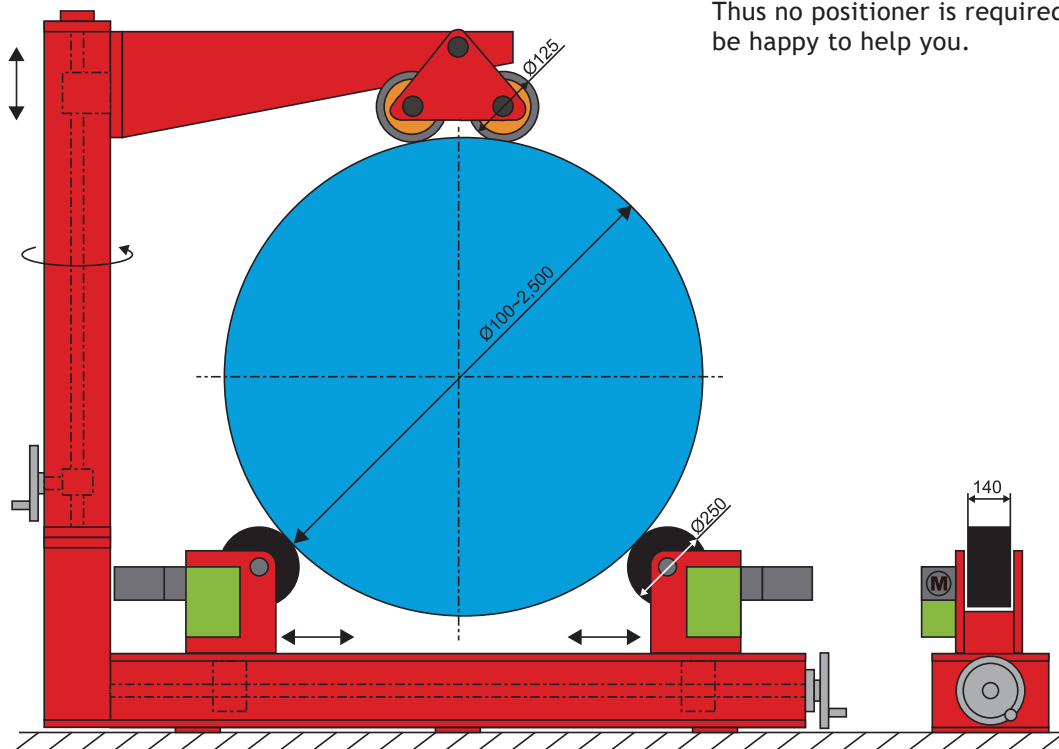
Pipe Processing Unit

... and more



Simple and flexible from 30 mm up to 2,500 mm:

Those rollerblocks with clamping device are very easy and simple to install. Thus no positioner is required. We will be happy to help you.



Stands

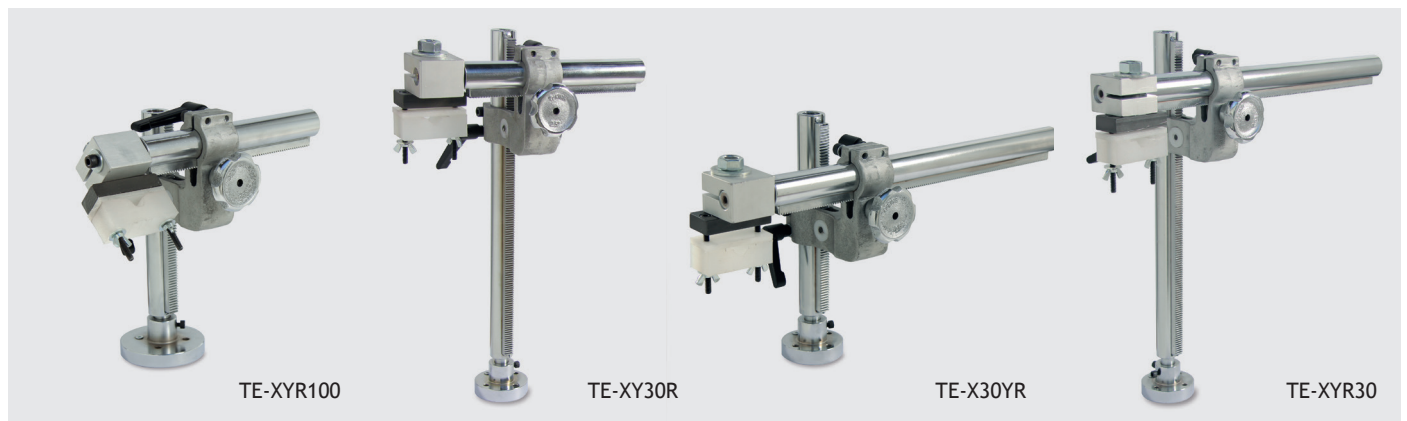
Torch Stand TE

Best torch position

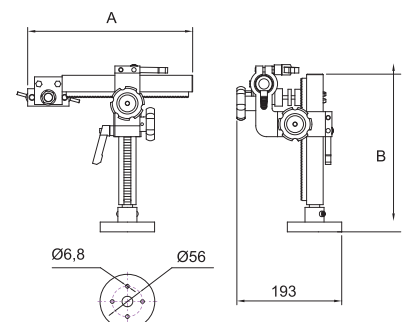
The torch stands TE-XYR can easily be screwed to different grounds. The torch can easily be brought into the best horizontal or vertical position via the two handwheels.

Features

- Torch positioning via handwheel (vertically/horizontally).
- Torch holder with lever.
- Easy assembly.
- High stability.



Model	TE-XYR10	TE-XY30R	TE-X30YR	TE-XYR30
Horizontal movement	100 mm	100 mm	300 mm	300 mm
Horizontal operation	manually	manually	manually	manually
Vertical movement	100 mm	300 mm	100 mm	300 mm
Vertical operation	manually	manually	manually	manually
Max. load boom end	6 kg	6 kg	6 kg	6 kg
Meas. (pic. AxB) mm	304x290	304x490	504x290	504x490
Item no.	71821110	71821112	71821114	71821115

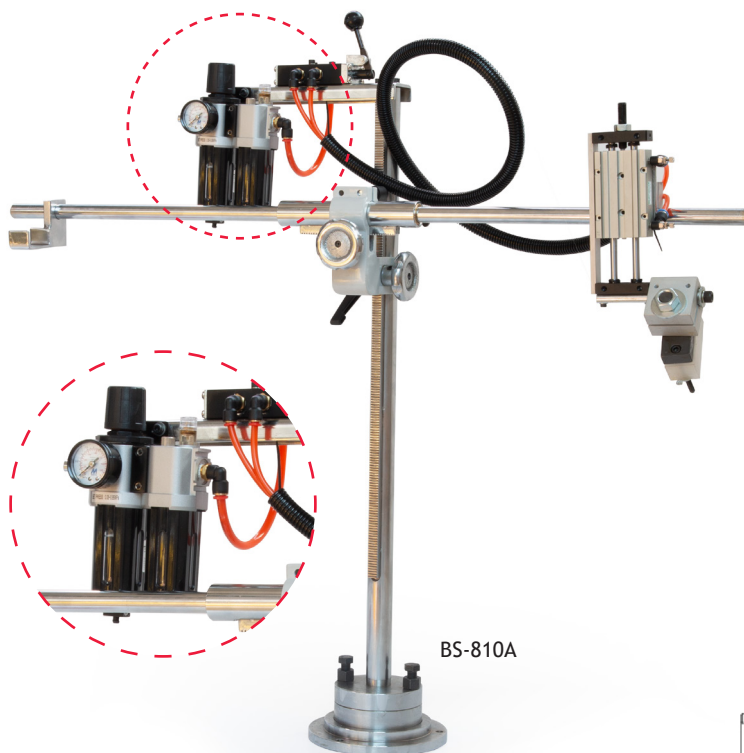


Stands

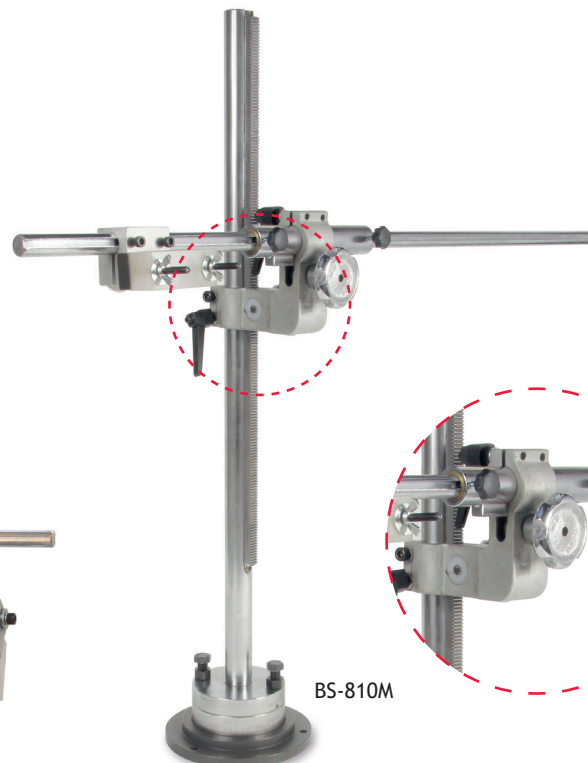
Torch Stand – BS-810M

Torch Stand BS-810M and BS-810A

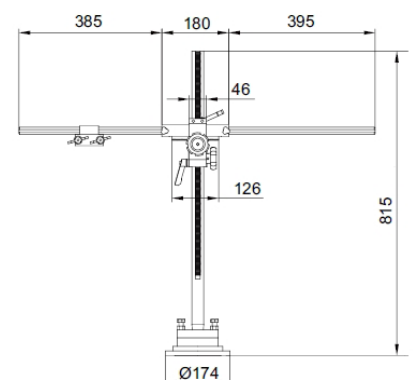
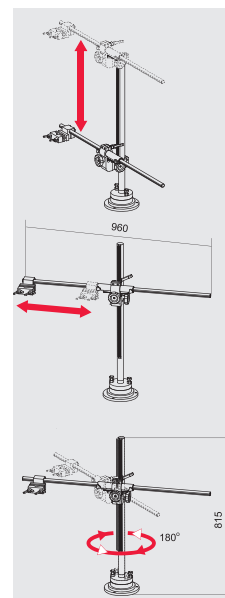
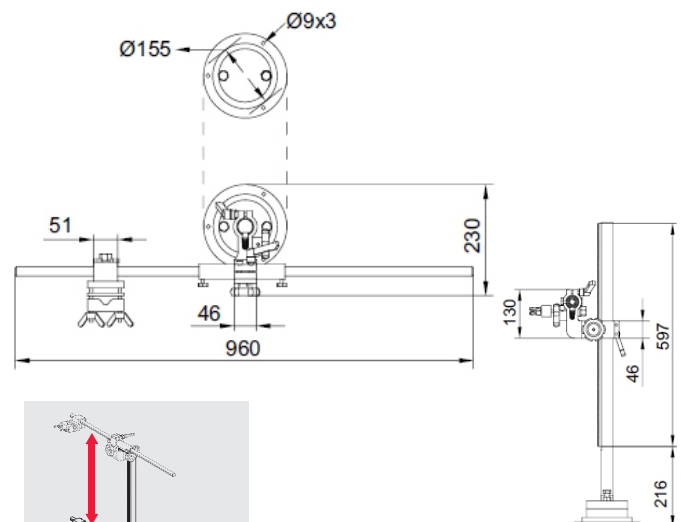
The Torch Stand - BS-810 M (manually) and BS-810A (pneumatically) are suitable for MIG-torches, TIG-torches and plasma torches.



BS-810A



BS-810M



Model	BS-810M		BS-810A
Stand horizontal movement	600 mm		
Stand horizontal operation	manually		
Stand vertical movement	500 mm		
Stand vertical operation	manually		pneumatically
Stand angle of tilt	360°		
Max. load boom end	8 kg		
Torch angle of tilt	180°		
Torch stroke adjustment	manually		pneumatically
Torch start-up	pneumatically		
Measurem. (LxWxH) mm	960x230x815		
Total weight	27 kg		29 kg
Item no.	71801118.BS810M		71801118.BS810A

Stands

Manually adjustable – BS-106 M



Vertical movement:
700 mm



Rotating:
manually



Horizontal movement:
700 mm



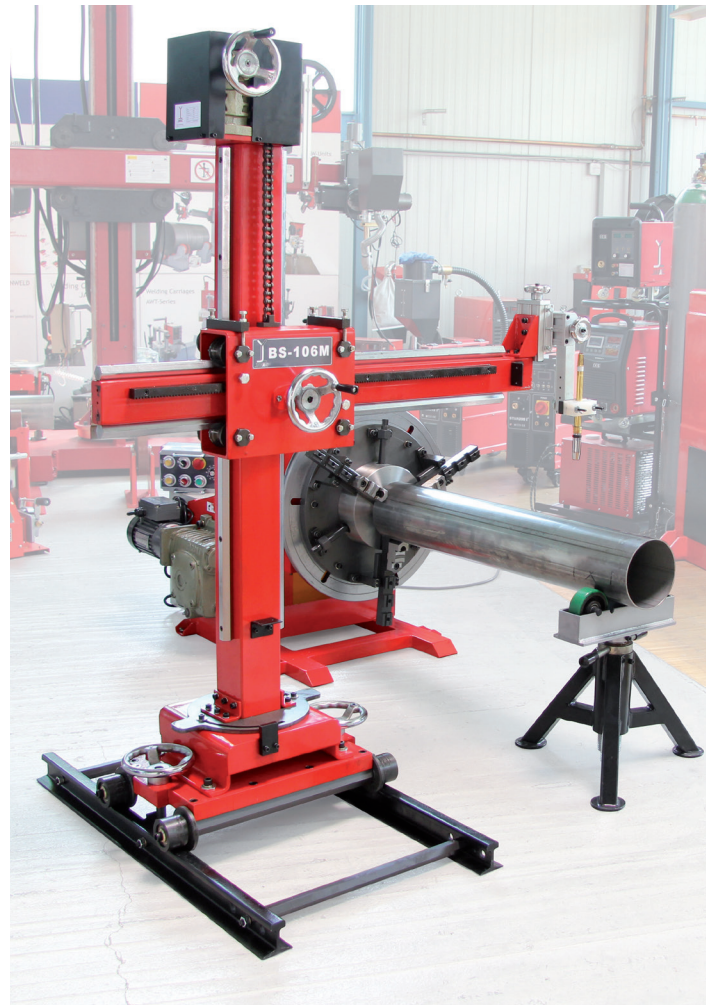
Max. load boom end:
30 kg

Features

- Pivotal through 360°.
- Torch positioning via handwheel (vertically/horizontally).
- Torch holder with lever.
- High stability.
- Guidance via linear slide and cross slide.
- Carriage with 2 brakes (handwheel).

Welding can be so easy

The individual positioning of torches can be so easy! Welding heads and torches up to 30 kg can be mounted on the boom head of the BS-106M. Especially for neat and smooth orbital welding torch stands are more than interesting. Combined with a turntable or a roller block, girth weldings can be done so easily.

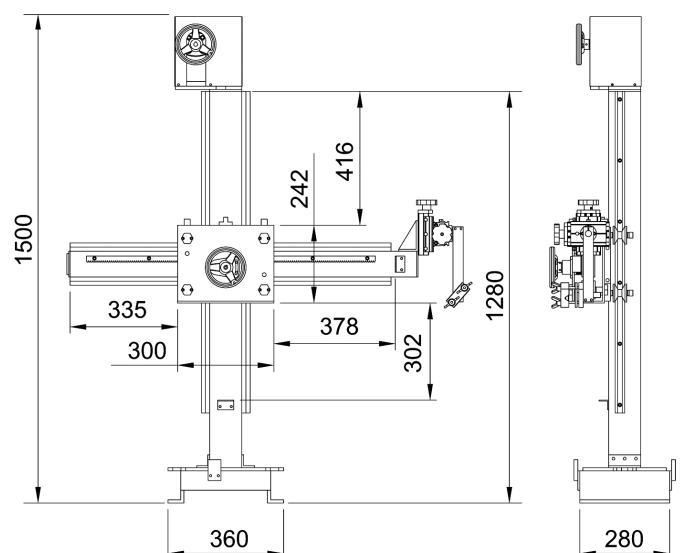


Model	BS-106M
Stand angle of tilt	180°
Max. load boom end	30 kg
Torch angle of tilt	180°
Torch horizontal movement	75 mm
Torch vertical movement	75 mm
Measur. (LxWxH) mm	1255x392x1500
Item no.	91812040

Optional accessories

Item no.

Carriage	91812044
Rail (1m)	91812042
Pneumatic torch holder with service unit and lever	91812046



Welding Masts

Motor-adjustable – TE-120



Vertical movement:
1200 mm



Rotating:
motor driven



Horizontal movement:
1200 mm



Max. load boom end:
30 kg

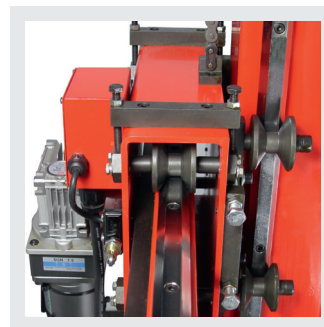


For challenging welding jobs

You will reach undreamed heights with Javac welding masts without spending a fortune. Choose a TE manipulator out of our lightweight series or a heavy-duty TEA for highest demands. All our manipulators are extremely solid, move with infinitely adjustable speed and are equipped with drop protection.

Features

- Pivotal through 180°.
- Motor-driven torch positioning (vertically/ horizontally).
- Torch holder with lever.
- Easy assembly.
- High stability.
- Guidance via linear slide and cross slide.



Model	TE-120
Horizontal movement	150 – 1.500 mm/min.
Vertical speed	800 mm/min.
Angle of tilt	90°
Rotating	manually
Torch horizontal movement	75 mm
Torch vertical movement	75 mm
Measurements (LxWxH) mm	1690 x 920 x 2048
Item no.	72111212

Scope of Delivery:

- 1 Control
- 1 Cable remote control



Welding Masts

Medium / Heavy duty – LHJ / NLH



Vertical movement:
4.000 mm



Rotating:
motorisch



Horizontal movement:
4.000 mm



Max. load boom end:
300kg

Features

- Welding mast for MIG/MAG or for UP single wire welding
- Welding mast for longitudinal and circular welding.
- High-strength construction and extremely stable.
- Boom height control with constant speed.
- Extension of the boom by means of speed control;
- Column rotation and carriage movement by means of speed control
- Travels by rail
- Delivery manual/motorized or fixed/rotatable

Scope of Delivery:

- 1 Control
- 1 Cable remote control



Model	LHJ 2020	LHJ 3030	LHJ 4040	NLH4040	NLH5050	NLH6060	NLH
Vertikale Extention Hub mm	2000	3000	4000	4000	5000	6000	7000
Horinzontal Extention mm	2000	3000	4000	4000	5000	6000	7000
Extention lifting speed	600 mm/min			800 mm/min			
Extention speed boom	100 - 1500 mm/min			100 - 1500 mm/min			
Angle of tilt	±180°			±180°			
Trolley speed (mm/min)	2000			2000			
Inner side distance of rail	1500 mm			2000 mm			
Boom rpm	0,1 rpm			0,11 rpm			
Motor power	0,37 kw			0,37 kw			
Max. Load on boom end	200 kg	150 kg	100 kg	300 kg	250 kg	200 kg	150 kg

Welding Masts for deposit welding

Heavy duty – TEA-1010



Vertical movement:
1.000 mm



Rotating:
motor driven



Horizontal movement:
1.000 mm



Max. load boom end:
120 kg

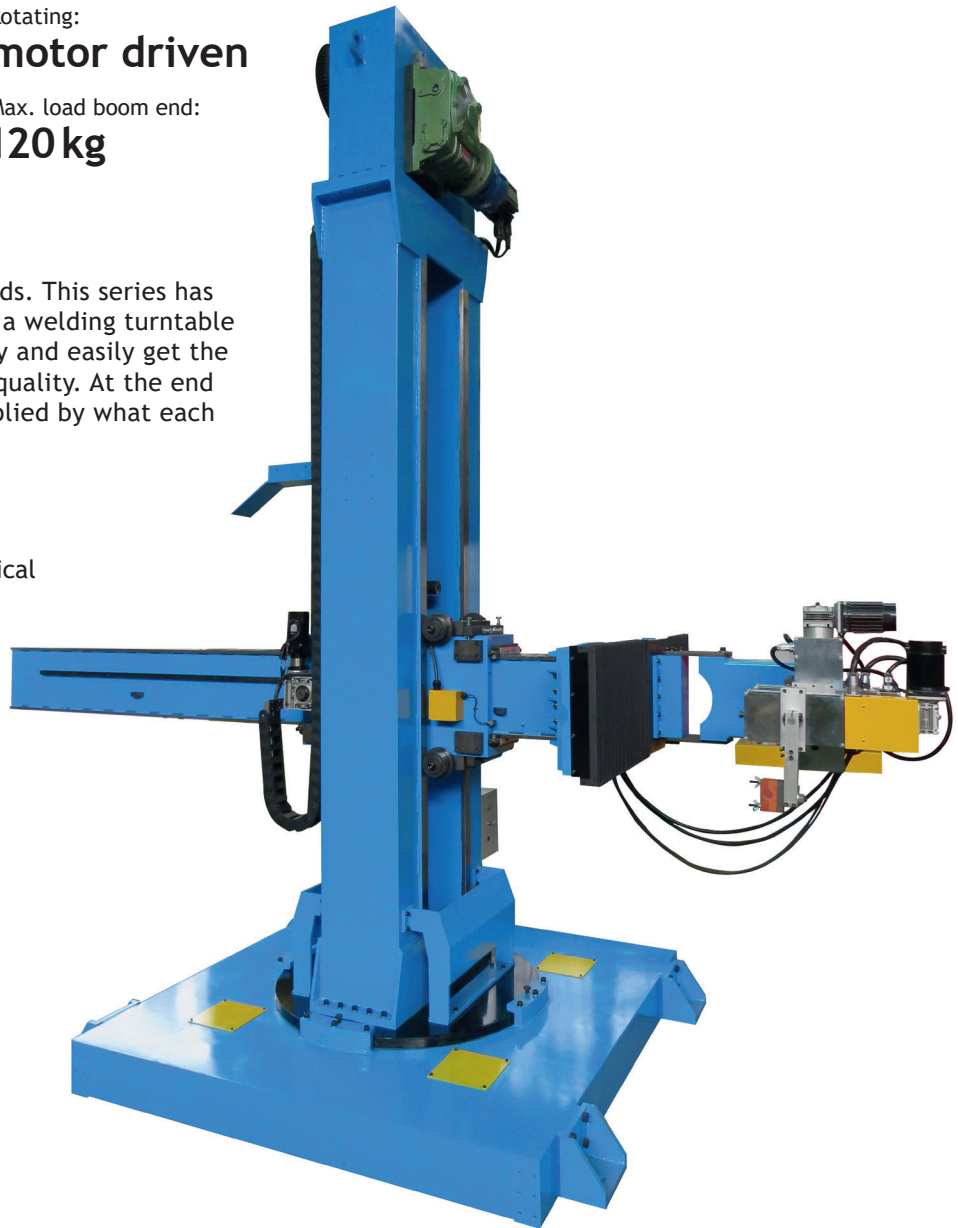
When it comes up high

Select a heavy TEA for highest demands. This series has an interface for synchronization with a welding turntable or a roller block. Thus you can quickly and easily get the circumferential welds of the highest quality. At the end of the boom up to 120 kg may be applied by what each welding method can be used.

exactly, stable and of low vibrations

Advantages by TEA-Serie with two vertical masts, which leads the boom:

- Quiet process thanks to the friction drive
- Low vibration
- High stability in X, Y, and Z-direction
- High loadability on the boom end
- Low Tolerance



Productvideo

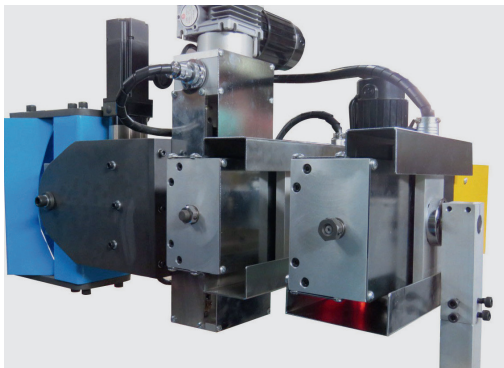
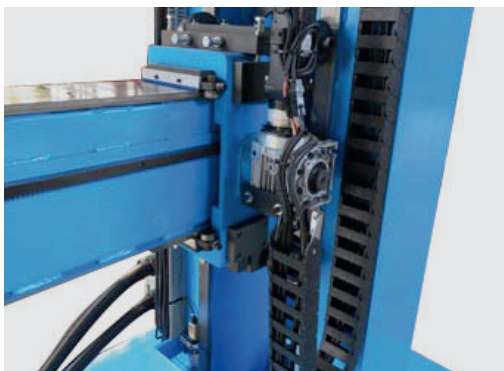
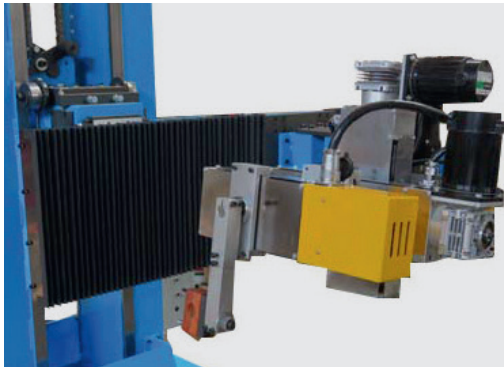
Model	TEA-1010
Supply voltage	230V/ 400 V 50 Hz
Horizontal movement	1.000 mm
Vertical movement	1.000 mm
Horizontal Speed	50 – 1.500 mm/min.
Vertical Speed	50 – 2.000 mm/min.
Angle of rotation arm	180°
Angle of rotation tree	360°
Rotation	manually
Max. load boom end	120 kg
Measurements (LxWxH) mm	

Features

- Pivotable through 360°.
- Motor moving.
- Hight stability.
- Interface for synchronization with positioner or roller
- Available fixed or on rails
- Notch at the end of the beam suitable for SAW head
- Drop protection
- Infinitely variable speed control
- Hand held remote control with 10 m cable.

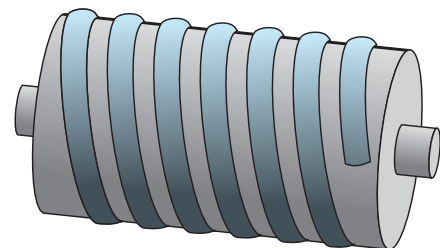
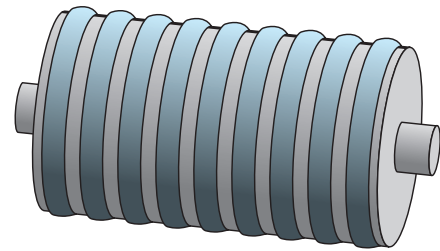
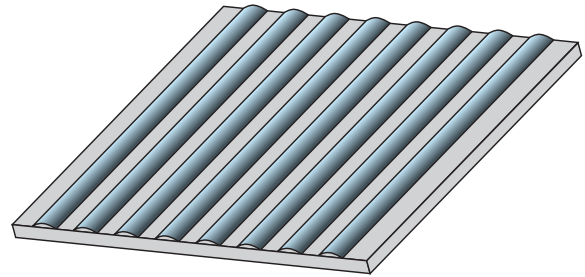
Welding Masts for deposit welding

Heavy duty – TEA-1010



Ideal for deposit welding

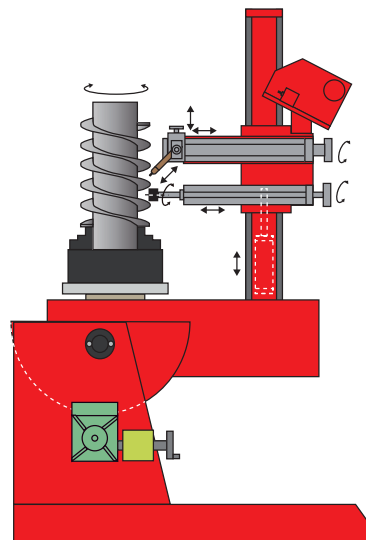
Due to the constant movement speed of the boom, the welding mast is predestinated for deposit welding. In combination with a positioner or turnroller, even hoops or spirals are no problem.



Note

Deposit welding means to bring on an additional welded layer on an existing workpiece. Thus can increase the durability, or repair of an existing workpiece.

Illustration right:
Individual solution for the automatic welding of a plating on a spiral construction, which is exposed to heavy loads.



Supports

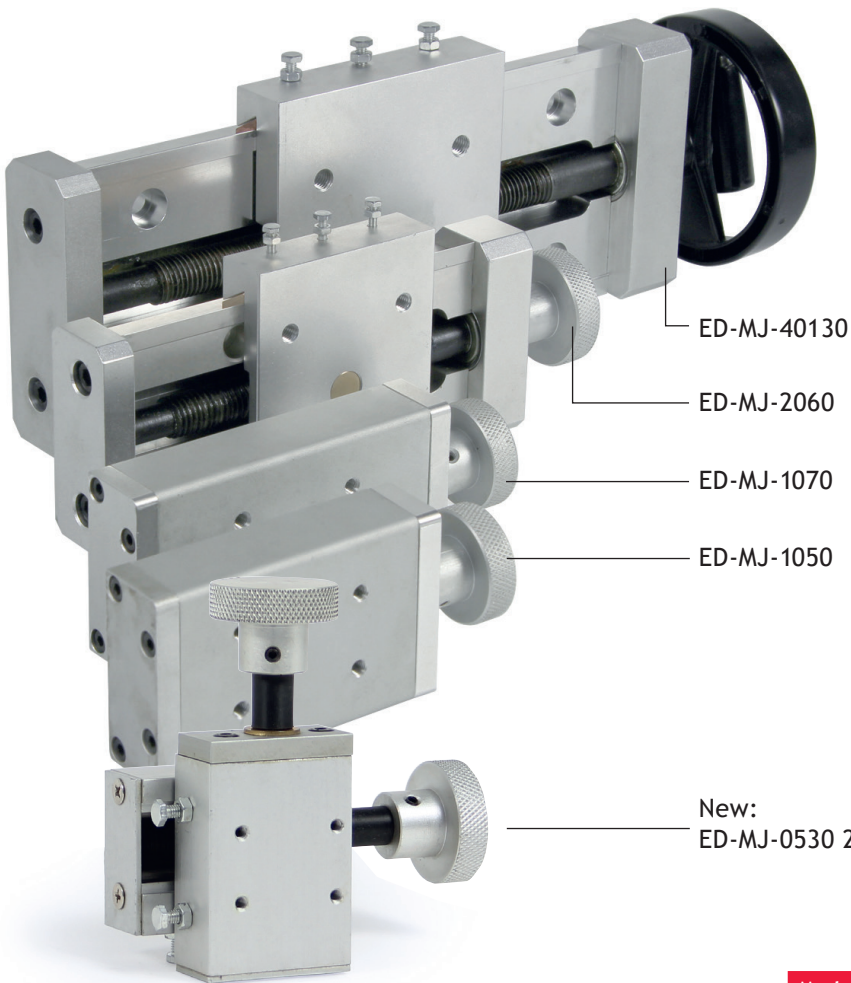
Manual slides + torch holders

Accurate and flexible

JC-MJ series of precision guidances is designed for a manual fine adjustment of the torch. These are predominantly used with welding tractors and automatic welding devices. Using these precision guidances, you will receive more flexibility, positioning is more accurate and fast. Thus, your product quality will be increased. They are easy to install and comfortably to adjust. All JC-MJ models are made of aluminium alloy and can be combined for a 2D and 3D support.

MJ series can be combined with different torch holders and connections.

Possible for MIG/MAG-, TIG-, Plasma-, SAW- and CNC-cutting torches.



JC-MR 60 rotating element Axis of rotation: 360°; Load: 5 kg

ED-MR90 rotating element Axis of rotation: 360°, Load: 40 kg

Model	Item no,
JC-MR 60	72202408
JC-ED-MR90	72202410

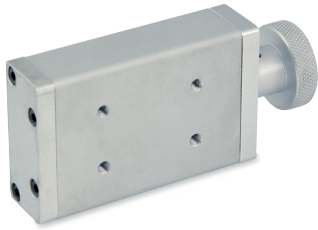
Model	Item no.	Stroke	Load
JC-MJ-0530 2D	72202022	á 30 mm	5 kg
JC-MJ-1050 1D	72202030	50 mm	10 kg
JC-MJ-1050 2D	72202032	á 50 mm	10 kg
JC-MJ-1050 3D	72202034	á 50 mm	10 kg
JC-MJ-1070 1D	72202050	70 mm	10 kg
JC-MJ-1070 2D	72202052	á 70 mm	10 kg
JC-MJ-1070 3D	72202054	á 70 mm	10 kg
JC-MJ-2060 1D	72202060	60 mm	20 kg
JC-MJ-2060 2D	2x 72202060	á 60 mm	20 kg
JC-MJ-40130 1D	72202130	130 mm	40 kg



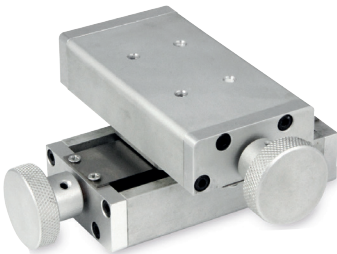
1D, 2D and 3D principle

Supports

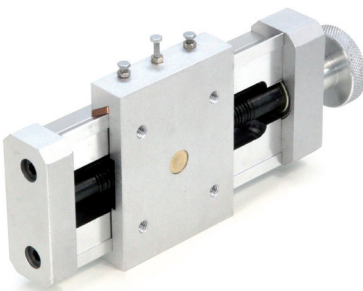
Manual slides + torch holders



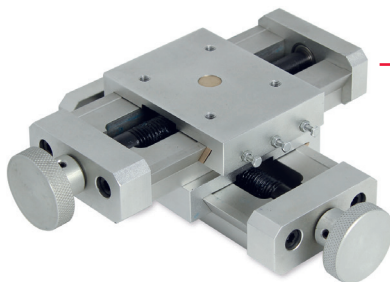
ED-MJ1050 1D/ED-MJ1070 1D



ED-MJ1050 2D/ED-MJ1070 2D



ED-MJ2060 1D



ED-MJ2060 2D



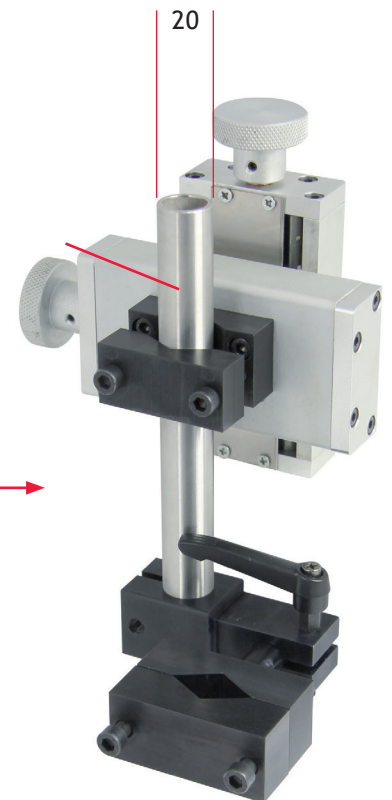
TC-H small*



TC-2R



TC-H large**



Pipe model TC-P

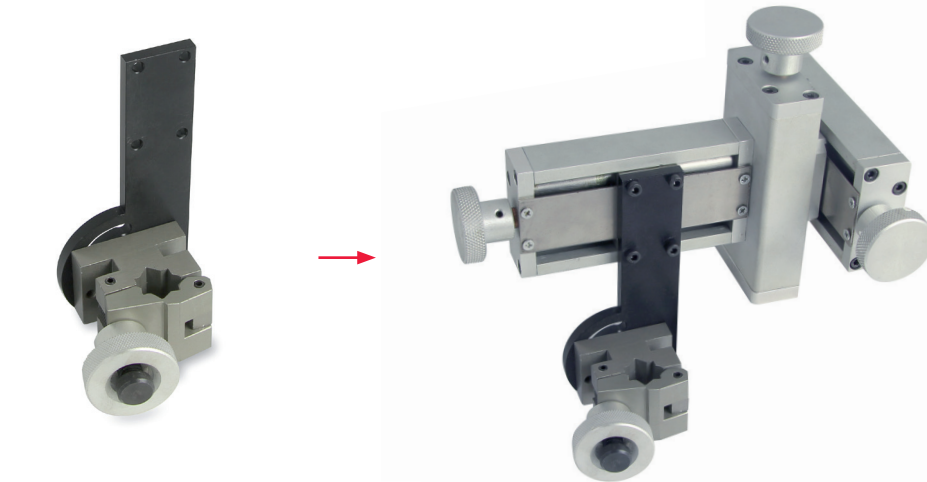
Model	Item no.	Pipe diameter Ø
TC-H small	72202210	17 ~ 20 mm
TC-H large	72202212	17 ~ 30 mm
TC-2R	72202215	20 mm
TC-P	72202220	20 mm

* for model range JC-MC1050

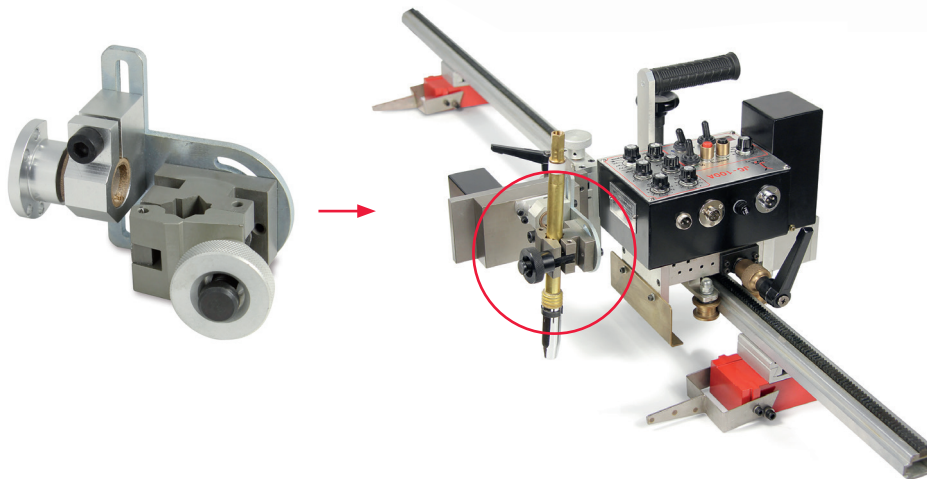
** for model ranges JC-MC1070, JC-MC2060 and JC-MC40130

Supports

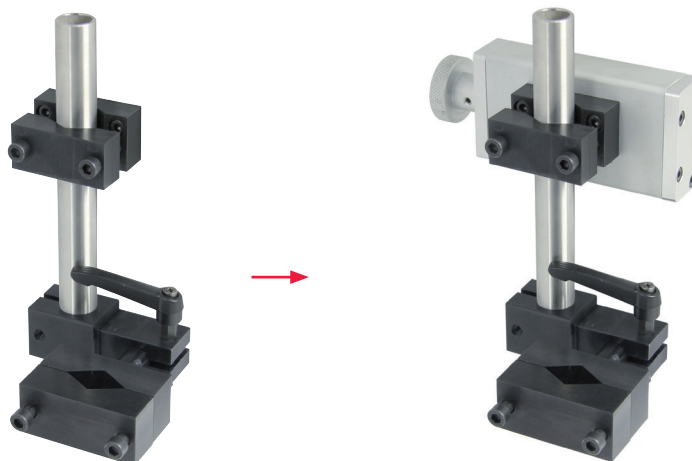
Manual slides + torch holders



Clamp mounting Type 2
example of use with
ED-MJ1050 3D



Clamp mounting Type 3
example of use on
MIG-Traktor mounted

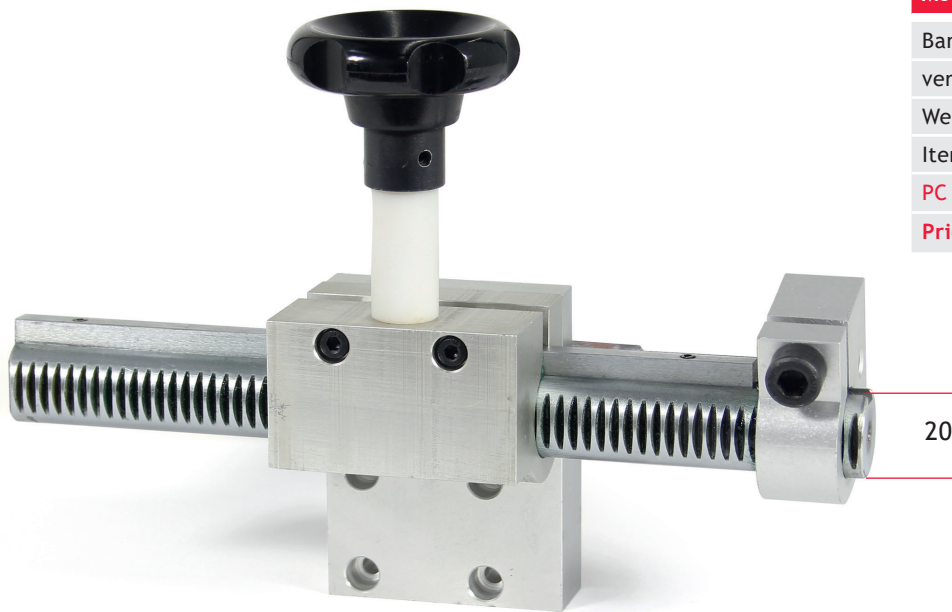


Clamp mounting Type 4
example of use with
ED-MJ1050 1D

Model	Item no	Pipe diameter Ø
Clamp mounting Type 2	72202042	17 ~ 20 mm
Clamp mounting Type 3	72202044	17 ~ 20 mm
Clamp mounting Type 4	72202046	17 ~ 20 mm

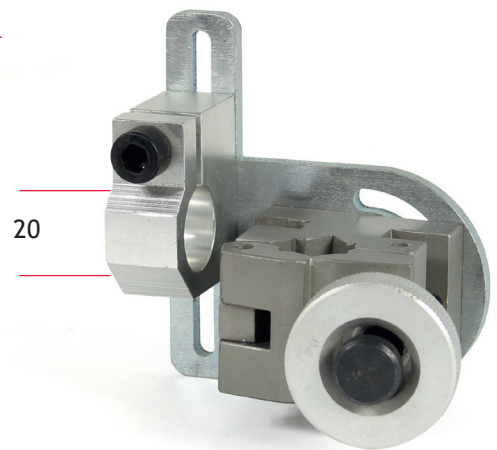
Supports

Manual slides + torch holders

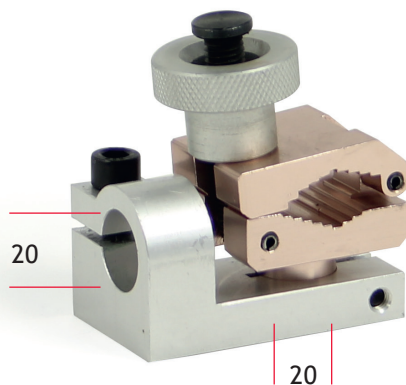


RAC 120

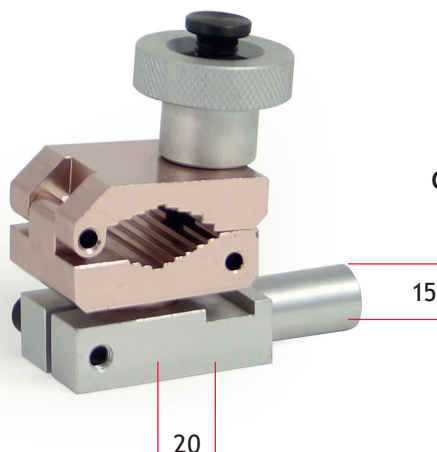
Model	RAC 120
Bar Ø	20 mm
vertical movement	120 mm
Weight	1 kg
Item no.	72202250
PC	C
Price €	195,-



Clamp mounting Typ 3,
also fitting for RAC 120



Clamp mounting Type 5



Clamp mounting Type 6

Model	clamp mounting Type 5
Pipe uptake Ø	20 mm
Pin Ø	15 mm
Price	72202247

Model	clamp mounting Type 6
Pipe uptake Ø	20 mm
Item no.	72202248

Supports

Cross support with torch holder

Features

- Horizontal and vertical movement 75 mm.
- Pivotal torch holder (180°).
- Suitable for linear and girth welding.
- Cross support with handwheel for manual adjustment of the torch position.

Model	TE-X75
Max. load	6 kg
Torch angle of tilt	180°
Torch horizontal movement	75 mm
Torch vertical movement	75 mm
Measurements L x W x H (mm)	171 x 201 x 334
Weight	5,8 kg
Item no.	71821220

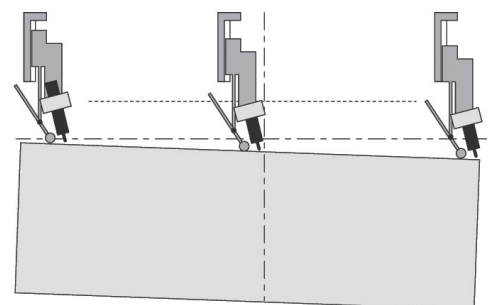


Mechanized height scanner

Features

- Mounted in spring bearings.
- Scans the workpiece surface.
- Torch distance remains unchanged.
- Suitable for linear and girth welding.
- Cross support with handwheel for manual adjustment of the torch position.

Model	TE-WL01
Max. load	30 kg
Torch angle of tilt	180°
Torch horizontal movement	75 mm
Torch vertical movement	75 mm
Height scanning	gravity
Scan lifting	25 mm
Measurements L x W x H (mm)	465 x 175 x 450
Weight	4,8 kg
Item no.	71802014.0010



Supports

Voltage-controlled height scanner AVC-101

Features

- DC-TIG pulse (pulse frequency not <10 Hz)
- Can be used for DC-TIG and DC-Plasma welding
- Horizontal and vertical movement 150 mm.
- Pivotal torch holder (180°).
- Suitable for linear and girth welding.
- Cross support with handwheel for manual adjustment of the torch position.
- Welding voltage sensibility can be infinitely adjusted from 0.1 – 0.5 V.

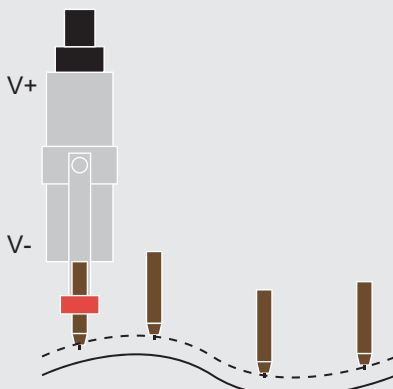


Model	AVC-101
Supply voltage	AC 230V / 4A
Max. load	6 kg
Torch horizontal movement	150 mm
Torch vertical movement	150 mm
Measurements L x W x H (mm)	171 x 201 x 334
Item no.	71821250

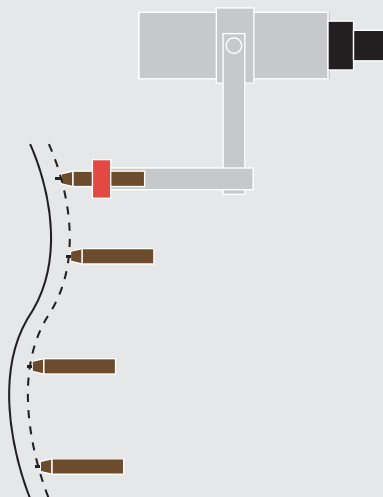
Scope of delivery:

- 1 Control unit
- 1 Foot switch

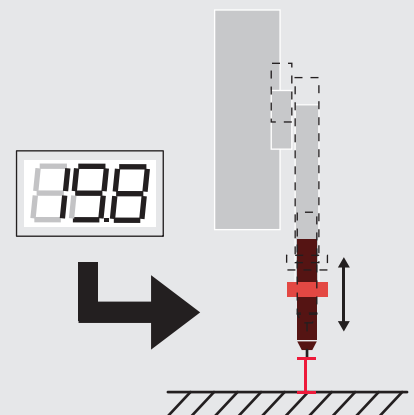
horizontal



vertical



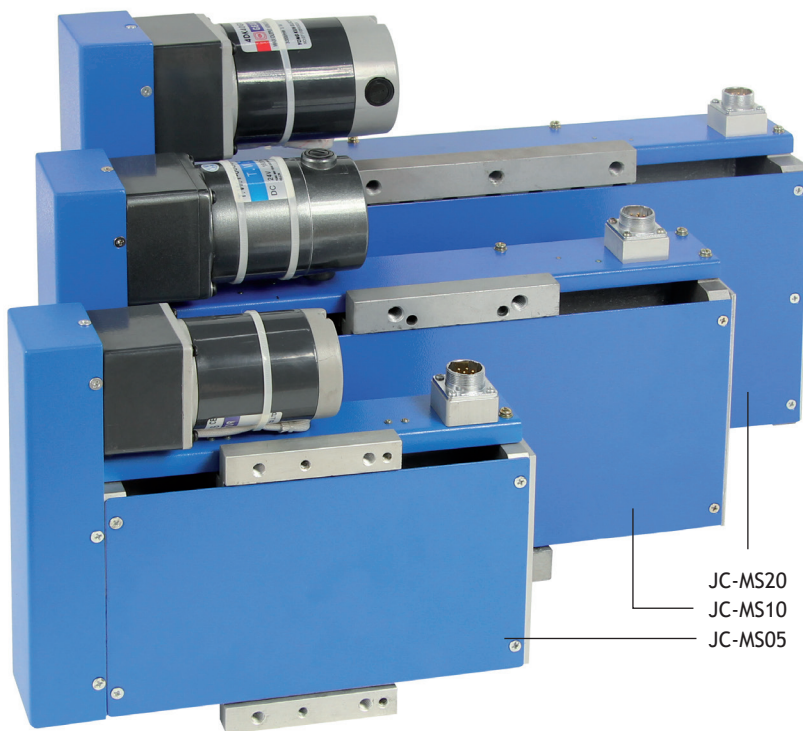
Constant voltage or
constant distance
adjustable



Electrical Support

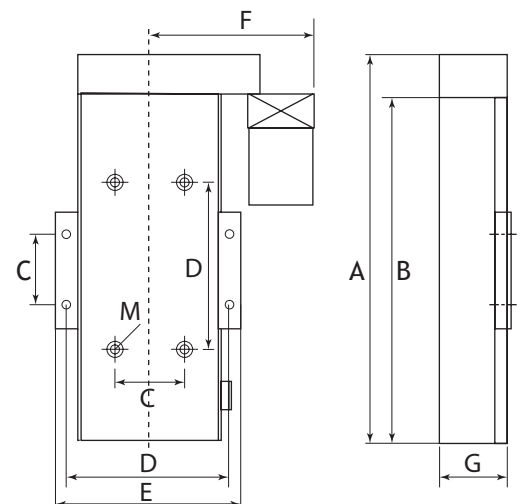
Electric Linear Slide JC-MS

The slides with their robust aluminium housing are driven by DC 24 V stepping motor. A ball screw provides for a smooth drive in the inside.



Features

- Backlash-free and extremely robust.
- Reliable and maintenance-free.
- Movement 100 – 200 mm.
- Load capacity 25 – 100 kg.



Model	JC-MS05	JC-MS10	JC-MS20
Stroke	100	200	200
Speed	20 ~ 250 mm/min.	20 ~ 250 mm/min.	20 ~ 200 mm/min.
Load	25 kg	50 kg	100 kg
Tolerance	+ - 0,1 mm	+ - 0,1 mm	+ - 0,1 mm
Input	DC24V	DC24V	DC24V
Weight	7,5 kg	11,5 kg	20,5 kg
Item no.	72202305	72202310	72202320

Sizes	JC-MS05	JC-MS10	JC-MS20
A	278	414	489
B	238	374	444
C	60	76	164
D	150	180	210
E	168	200	234
F	152	178	205
G	65	75	85
M	8	10	10

Linear Slide

Electronic Cross Support JC-MS

The cross support with its two linear slides is extremely robust and thanks to its easy construction almost maintenance-free. The torch can be exactly controlled via joystick-control. Thanks to its adjustable speed and high load capacity the electronic cross support is flexible for many different applications.

Features

- Easy use and adjustment.
- Backlash-free and extremely sturdy.
- Reliable and maintenance-free.
- Movement 100 – 200 mm.
- Joystick-control.
- Load capacity 25 – 100 kg.



Joystick separately available



Remote control is deliverable as wireless

Control	Joystick*
Item no.	72202392

* In the scope of delivery at first orders. Can be purchased separately

Control	SC-Control
Supply voltage	AC 230 V, 50/60 HZ
Output voltage	DC 24 V
Size (L x W x H) mm	220 x 240 x 91
Weight	2,8 kg
Item no.	72202390

Control	SC-Wireless
Output voltage	DC 24 V
Item no.	72202391

Model	JC-MS05	JC-MS10	JC-MS20
Stroke	100	200	200
Speed	20 - 250 mm/min.	20 - 250 mm/min.	20 - 200 mm/min.
Load	25 kg	50 kg	100 kg
Accuracy	+ - 0,1 mm	+ - 0,1 mm	+ - 0,1 mm
Input	DC 24 V	DC 24 V	DC 24 V
Weight	13 kg	23 kg	41 kg
Item no.	2 x 72202305	2 x 72202310	2 x 72202320

Seamtracking

With electric push-button ST

The electric JAVAC sensor scans the form of the welding seam with a sensor. The scan is effected in two directions. Geometrical irregularities will be detected at once. They will be calculated by the control system and the torch as well as the workpiece will be repositioned timely. The complete communication system can be connected with a welding device. This ensures a very high welding quality. It is suitable for overlap welding, fillet welding as well as butt weldings with groove or joint.

The JAVAC seamtracking system comprises a control box, a 2D sensor, a sensor holder, an electric precision cross support, a clamp holder and different "scanners". The sensor is completely coated and thus prevents from damage caused by welding dust, heat and humidity inside the system.



JC-ST electric sensor scanner

Control unit and support can also be combined with a laser sensor!



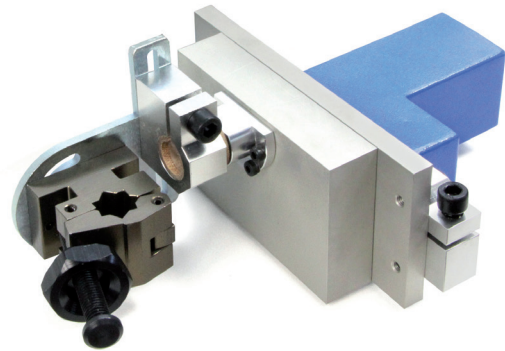
Scope of delivery with additional sensorheads

Model	JC-ST05	JC-ST10	JC-ST20
Supply voltage	AC 230 V, 50/60 HZ		
Load capacity	25 kg	50 kg	100 kg
Tracking range	100 mm	200 mm	200 mm
Tracking speed	20 ~ 250 mm/min.	20 ~ 250 mm/min.	20 ~ 200 mm/min.
Support precision	+- 0,25 mm, optional +- 0,13 mm		
Welding types	MIG / TIG / CO ²	SAW	SAW
Temperature	-10° ~ +70°		
Control function	Up/down and cw/ccw-movement, emergency stop, movement limit, track detection, limit detection, adjustment of track speed, remote control		

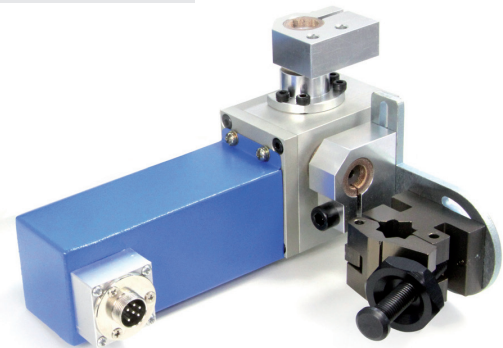
Welding Oscillators

Pendulum System WLS/WRS

JC-WLS/WRS welding oscillators are subdivided in linear and angle oscillators. They use a rack and pinion drive with linear guidance and screw drive. The load capacity is 5 kg. These oscillators are predominantly used for TIG, MAG und CO². They are equipped with a precision micro motor and potentiometer which in turn are equipped with a CPU control.



Linear oscillator JC-WLS



Angle oscillator JC-WRS



Control

Model	Linear oscillator JC-WLS	Angle oscillator JC-WRS
Supply voltage	AC 95 ~ 250 V, 50 Hz, 1 phase	AC 95 ~ 250 V, 50 Hz, 1 phase
Operation	Rack and pinion drive	Screw drive
Speed	0 ~ 2300 mm/min.	0 ~ 5 rpm or 30°/sec
Center adjustment	± 5 mm	± 3°
Oscillating width	0 ~ 25 mm	8°
Cw / ccw dwell time	0 ~ 2 s	0 ~ 2 s
Control	JC-WS	JC-WS
Weight	1.9 kg	1.8 kg
Item no.	72201215	72201220

Control	JC-WS
Size	120 x 175 x 75
Weight	2,9 kg
Item no.	72201225

Linear Oscillators

LW-Series

Features

- Easy to handle and reliable.
- Without clearance and very sturdy.
- Low maintenance
- Suitable for MIG/MAG, TIG and Plasma

Scope of delivery:

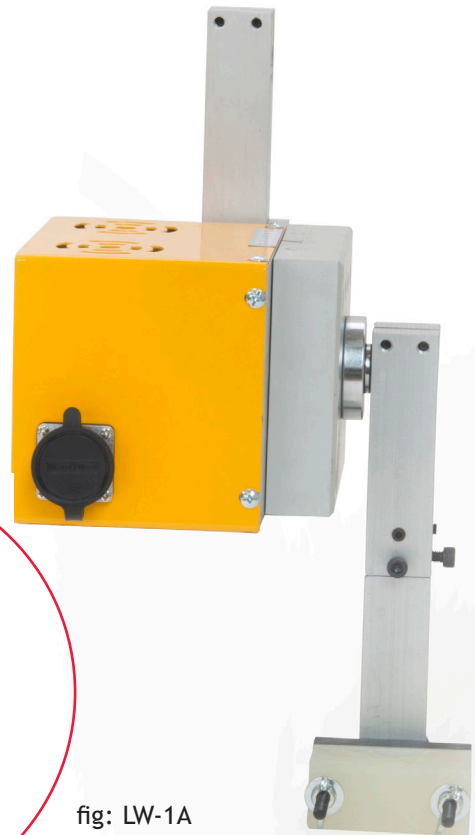
1 separate control unit
1 Remote control with 3 m cable



controller unit



fig: LW-1A

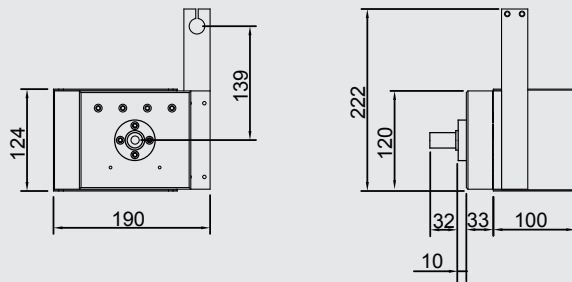


Model	LW-1A	LW-2A	LW-3A
Supply voltage	AC 230V/3A, 50/60 Hz		
Step-motor	0,9 Nm	1,35 Nm	20Nm
Max. load	5 kg	20 kg	50 kg
Oscillation speed	50 – 2500 mm/min	50 – 5000 mm/min	50 – 5000 mm/min
Stroke (middle position)	0 – 30 mm	0 – 100 mm	0 – 150 mm
Amplitude right/left	0 – 15 mm	0 – 50 mm	0 – 75 mm
Stroke steps each	0,1 mm	0,1 mm	0,1 mm
Dwell time right/left/middle	0 – 9,9 sec.	0 – 9,9 sec.	0 – 9,9 sec.
Welding mode	2-stroke	2-stroke	2-stroke
Weight	5 kg	10 kg	18 kg
Size control box (LxBxH)	350 mm x 350 mm x 190 mm		
Weight control box	8 kg		
Item no.	02.20.22.00100	02.20.22.00110	

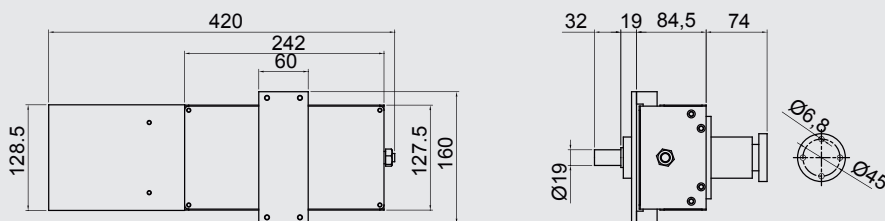
Linear Oscillators

LW-Series

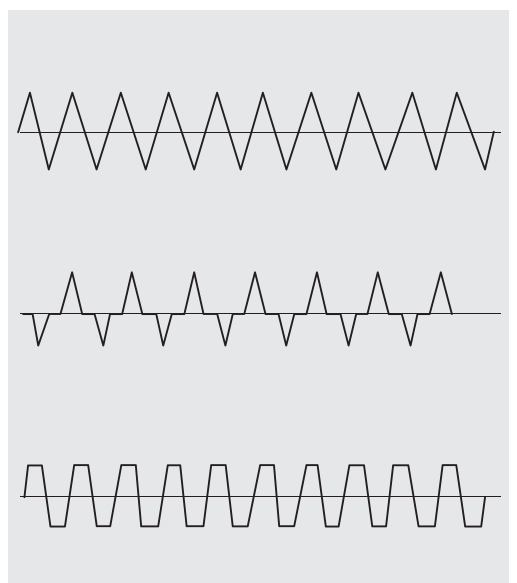
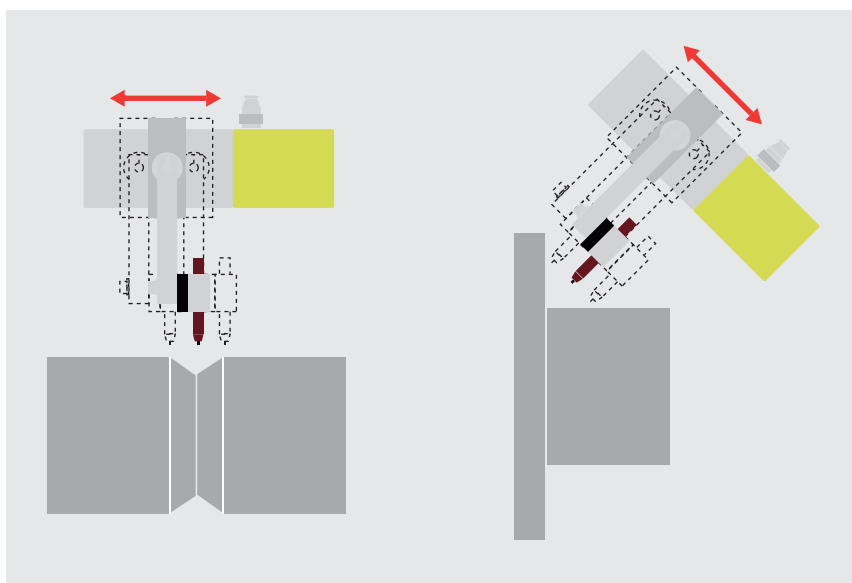
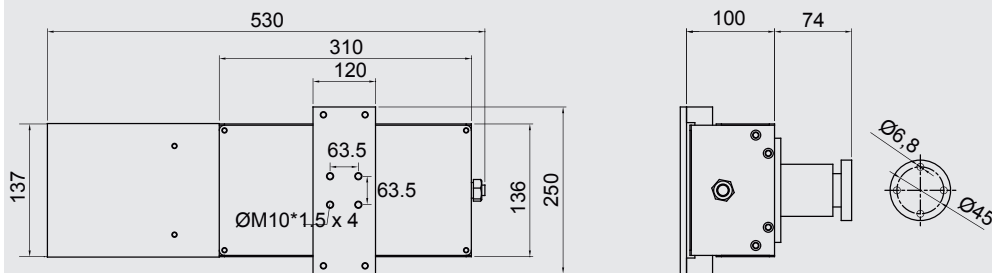
LW-1A



LW-2A



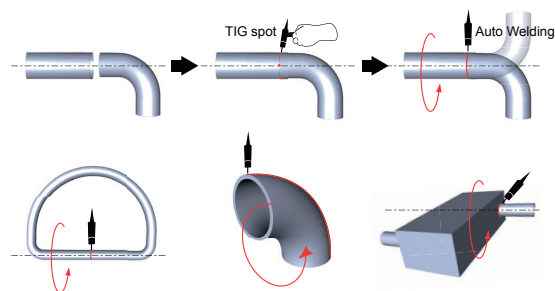
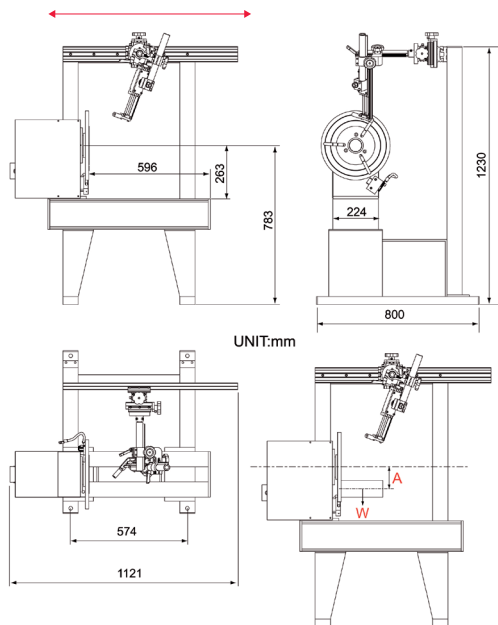
LW-3A



Adjustable oscillation curves.
The dwelling time (right, middle, left)
is adjustable from 0 to 9,9 sec.

Automation – Girth Welds

Girth Welds Unit LPW



Model	LPW-260	LPW-470
Supply voltage	V1: AC 230 V / 12A / 50;60 Hz V2: AC 400 V / 10A / 50 Hz	V1: AC 230 V / 12A / 60 Hz V2: AC 400 V / 10A / 50 Hz
Permissible welding current	300 A / 100 %	300 A / 100 %
Load capacity	180 kg	250 kg
Table diameter	340 mm	340 mm
Rotating speed	0,6 – 6,0 rpm	0,6 – 6,0 rpm
Max. workpiece diameter	420 mm	800 mm
Torch X-lift	75 mm	75 mm
Torch Y-lift	100 mm	100 mm
Torch Z-lift	100 mm	100 mm
Overlap timer (fixation point)	0 – 99 sec	0 – 99 sec
Timer (fixation point)	0 – 999 sec	0 – 999 sec
Start / crater filling	0 – 99 sec	0 – 99 sec
operation mode	2-cycle/4-cycle	2-cycle/4-cycle
Brake	magnetic	magnetic
HF-protection	100 %	100 %
Item no.	71080707	71080714

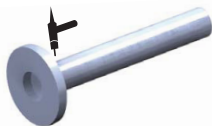
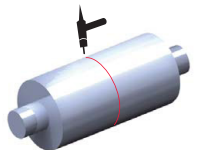
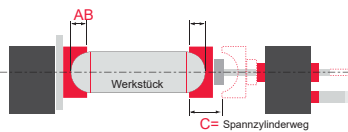
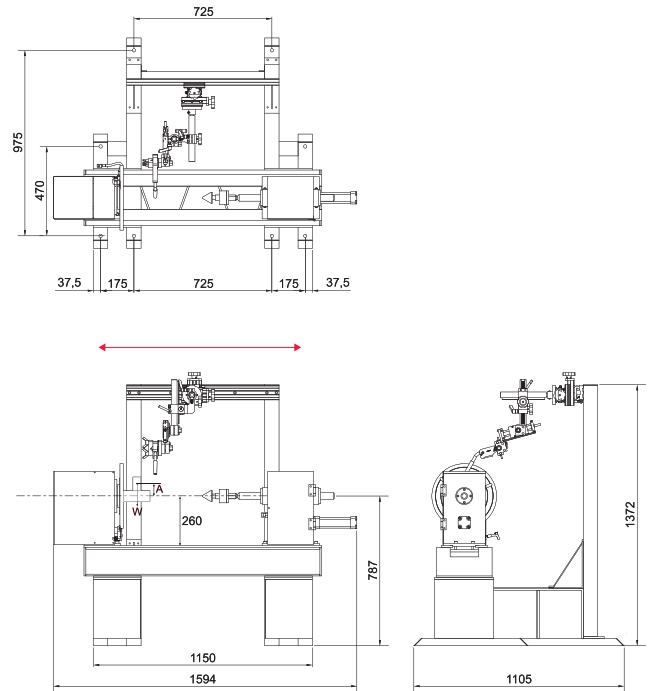
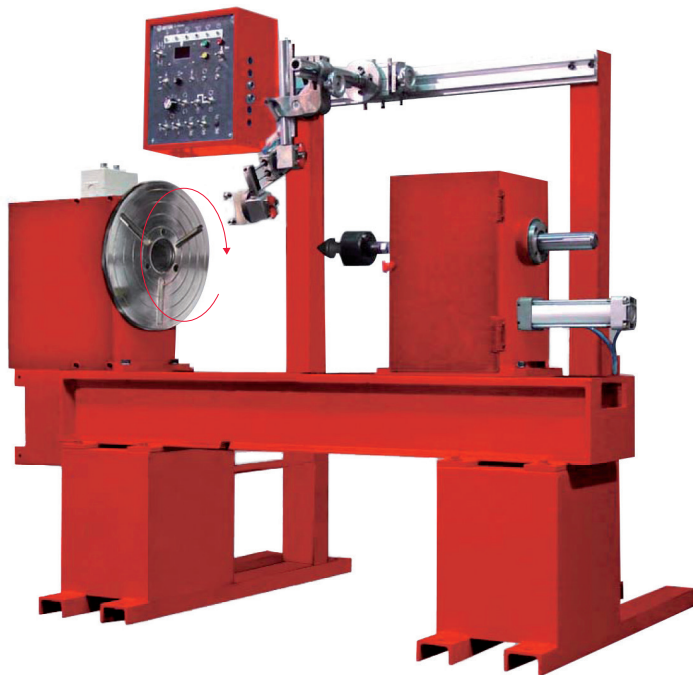
Scope of delivery:

1 Control Unit
1 Foot switch

Automation – Girth Welds

Girth Welds Unit HPW

with COM 2800



Scope of delivery:

- 1 Control unit (integrated)
- 1 Foot switch

Model	HPW260 L70T1	HPW470 L70T2
Supply voltage	AC 230 Volt / 50:60 Hz	AC 230 Volt / 50:60 Hz
Permissible welding current	300 A / 100 %	300 A / 100 %
Face plate diameter	340 mm	340 mm
Hollow shaft	60 mm	60 mm
Load capacity	180 kg	250 kg
Speed / load	0,6 - 6 rpm / 120 kg-cm	0,2 - 2 rpm / 675 kg-cm
Max. workpiece diameter	420 mm	800 mm
Max. workpiece length	700 mm	700 mm
Idling centring taper dia.	125 mm	150 mm
Centring taper internal clamping	8 – 56 mm	53 – 106 mm
Support block diameter	35 mm	50 mm
Toothed rod X-lift	75 mm	75 mm
Toothed rod Y-lift	100 mm	100 mm
Toothed rod Z-lift	100 mm	100 mm
Linear slide	50 mm	50 mm
Rotating direction	cw/ccw	cw/ccw
Overlap timer (fixation point)	0 – 99 sec.	0 – 99 sec.
Timer (fixation point)	0 – 999 sec.	0 – 999 sec.
Start arc timer	0 – 99 sec.	0 – 99 sec.
Crater filling	0 – 99 sec.	0 – 99 sec.
operation mode	2-cycle/4-cycle	2-cycle/4-cycle
Brake	magnetic	magnetic
HF-protection	100 %	100 %
Item no.	71080407	71080414

Automation – Longitudinal Seams

Longitudinal Seam Welding Unit Model OL



Productvideo
on www.javac.org



*also available with SPS control



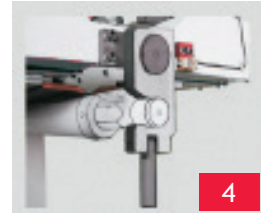
1



2



3



4



5



1

- Central control panel with digital display for welding speed and welding length.
- Presetting is possible.

2

- Linear chassis for torch mounting, max. load 50 kg.
- Adjustable sensor - switch for start and stop position.

3

- Copper chuck jaws are pressed pneumatically via pressure hose.
- Clamping force of copper chuck jaws 150N/cm at 3 bar pre-pressure.
- Chuck jaws are adjustable via adjusting screws from 5-25 mm to the middle of the welding seam.

4

- Lower beam equipped with a copper bearing rail.
- Prepared for water cooling and bottom formation.
- Turnbuckle for locking the lower beam is equipped with a safety switch.

5

- Adjustable height of lower beam according to material thickness.
- Manually adjustable torch mounting on X-Y-Z axis.
- Pivotal torch axis up to max. 60°.
- Enough space for the inclusion of a cold wire feeder.

Automation – Longitudinal Seams

Longitudinal Seam Welding Unit Model OL

Model	OL-04	OL-06	OL-08	OL-10	OL-12
Supply voltage	V1: AC 230V/60Hz V2: AC 400V/50Hz	V1: AC 230V/60Hz V2: AC 400V/50Hz	V1: AC 230V/60Hz V2: AC 400V/50Hz	V1: AC 230V/60Hz V2: AC 400V/50Hz	V1: AC 230V/60Hz V2: AC 400V/50Hz
Workpiece length	460 mm	660 mm	860 mm	1060 mm	1260 mm
Workpiece diameter	65 – 600 mm	90 – 780 mm	110 – 780 mm	145 – 780 mm	160 – 780 mm
Wall thickness	6,0 mm	6,0 mm	6,0 mm	0,6 – 10,0 mm	0,6 – 10,0 mm
Lower beam	turnbuckle for locking				
Torch movement	ballscrew and linear slide				
Torch speed	100 – 1500 mm/min				
Clamping	pneumatically via pressure hose				
Gas	automatic control				
Cooling	water circulation				
Middle stop collar	pneumatically				
Arc type	Standard/crater	Standard/crater	Standard/crater	Standard/crater	Standard/crater
Timer	0 – 9,9 sec.	0 – 9,9 sec.	0 – 9,9 sec.	0 – 9,9 sec.	0 – 9,9 sec.
Start Arc	0 – 9,9 sec.	0 – 9,9 sec.	0 – 9,9 sec.	0 – 9,9 sec.	0 – 9,9 sec.
Crater filling	0 – 9,9 sec.	0 – 9,9 sec.	0 – 9,9 sec.	0 – 9,9 sec.	0 – 9,9 sec.
Length adjustment	2 sensor switches (start position sensor + stop position sensor)				
HF-protection	100 %	100 %	100 %	100 %	100 %
Item no.	71080304	71080306	71080308	71080310	71080312

Model	OL-15	OL-18	OL-20	OL-25	OL-30
Supply voltage	V1: AC 230V/60Hz V2: AC 400V/50Hz	V1: AC 230V/60Hz V2: AC 400V/50Hz	V1: AC 230V/60Hz V2: AC 400V/50Hz	V1: AC 230V/60Hz V2: AC 400V/50Hz	V1: AC 230V/60Hz V2: AC 400V/50Hz
Workpiece length	1560 mm	1860 mm	2060 mm	2560 mm	3060 mm
Workpiece diameter	200 – 1000 mm	230 – 1000 mm	250 – 1000 mm	300 – 1000 mm	350 – 1000 mm
Wall thickness	0,6 – 10,0 mm	1,0 – 12,0 mm	1,0 – 12,0 mm	1,0 – 12,0 mm	1,0 – 12,0 mm
Lower beam	turnbuckle for locking				
Torch movement	ballscrew and linear slide				
Torch speed	100 – 1500 mm/min.				
Clamping	pneumatically via pressure hose				
Gas	automatic control				
Cooling	water circulation				
Middle stop collar	pneumatically				
Arc type	Standard/crater	Standard/crater	Standard/crater	Standard/crater	Standard/crater
Timer	0 – 9,9 sec.	0 – 9,9 sec.	0 – 9,9 sec.	0 – 9,9 sec.	0 – 9,9 sec.
Start Arc	0 – 9,9 sec.	0 – 9,9 sec.	0 – 9,9 sec.	0 – 9,9 sec.	0 – 9,9 sec.
Crater filling	0 – 9,9 sec.	0 – 9,9 sec.	0 – 9,9 sec.	0 – 9,9 sec.	0 – 9,9 sec.
Length adjustment	2 sensor switches (start position sensor + stop position sensor)				
HF-protection	100 %	100 %	100 %	100 %	100 %
Item no.	71080315	71080318	71080320	71080325	71080330

Automation – Circular Weld Seams

VTW for flanges

Features

- 60 mm hollow shaft. The welding torch cable can be put through the rotatory axis, thus simplifying the rotary structure and reducing torch problems.
- Welding torch driven by DC-motor; torch speed range 1,2 – 12 rpm.
- The workpiece on the base does not move.
- Runs with COM2800.
- Suitable for automatic welding, MIG/MAG, TIG and plasma welding.

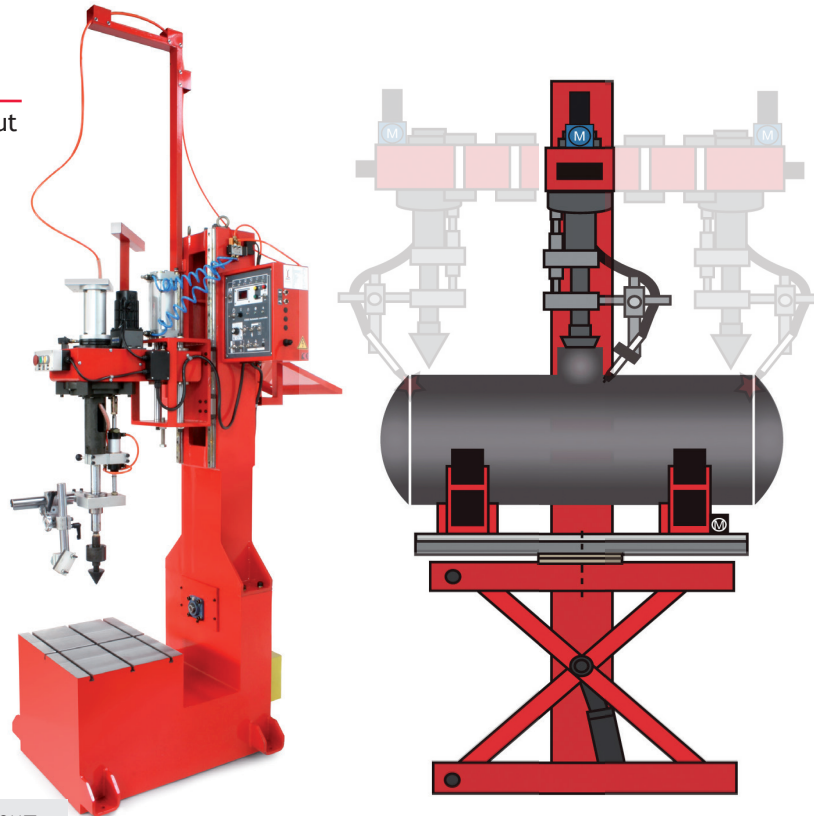


Productvideo



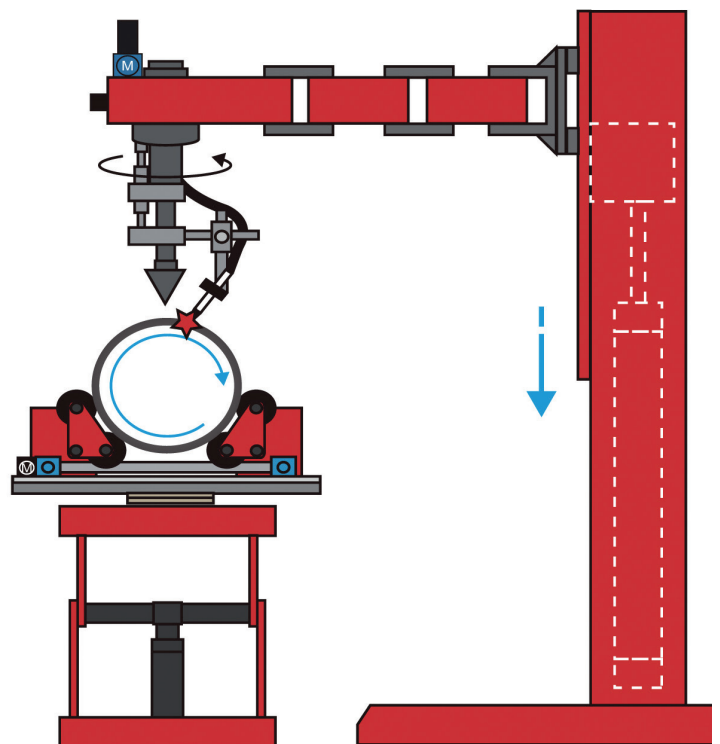
Scope of delivery:

- 1 Control unit
- 1 Foot switch



pic.: VTW-400MT

Model	VTW-400MT
Supply voltage	V1: AC 230V/60Hz/7A V2: AC 400V/50Hz/5A
Load capacity	800 kg
Inner base diameter	N/A
Distance rotating center/base	400 mm
Distance rotating center/ vertical shift	400 mm
Torch rotating speed	1,2 – 12 rpm
Rotating torch radius	10 – 75 mm
Idling centring taper dia.	120 mm
2D curve imitation device	Yes
Vertical 2D drop curve	12 mm
Toothed rod X-lift	100 mm
Toothed rod Y-lift	100 mm
Centring taper internal clamping	5 – 26 mm
Overlap timer	0 – 99 sec.
Timer (fixation point)	0 – 999 sec.
Start timer	0 – 99 sec.
Crater timer	0 – 99 sec.
Brake	magnetic
HF-protection	100%
Item no.	71080514

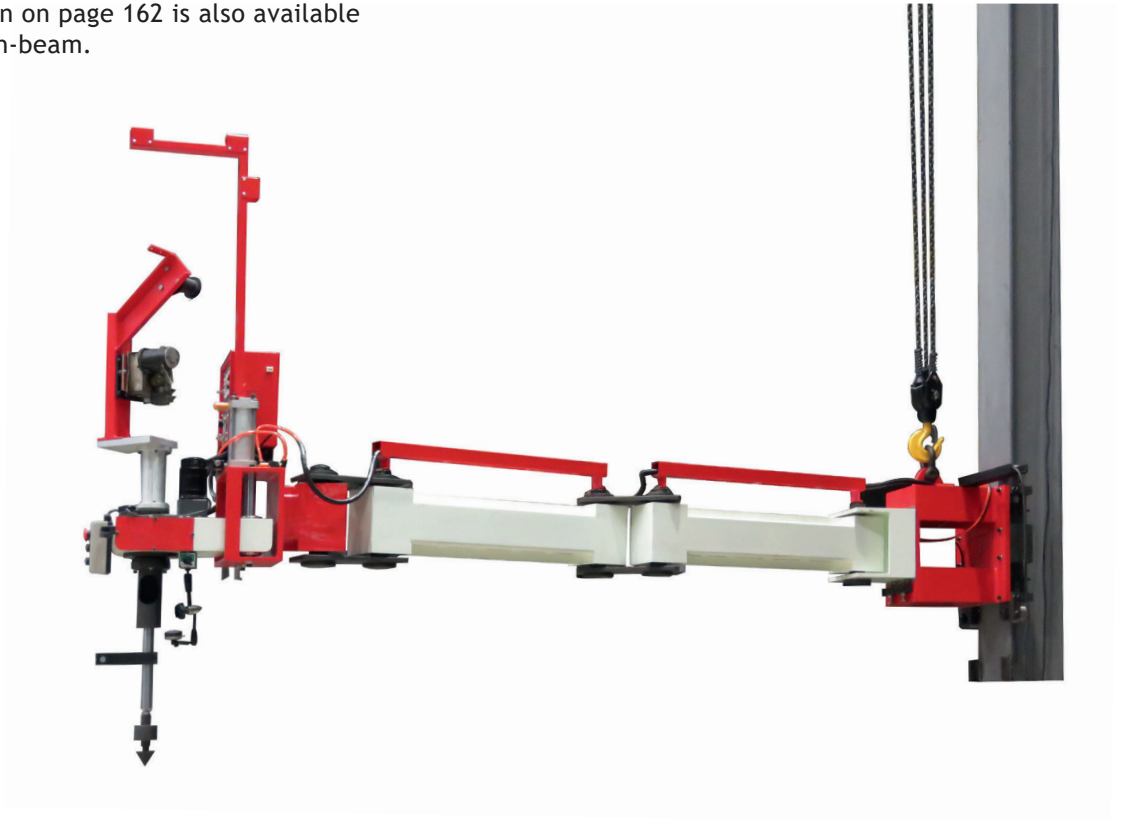


Example configuration according to customer

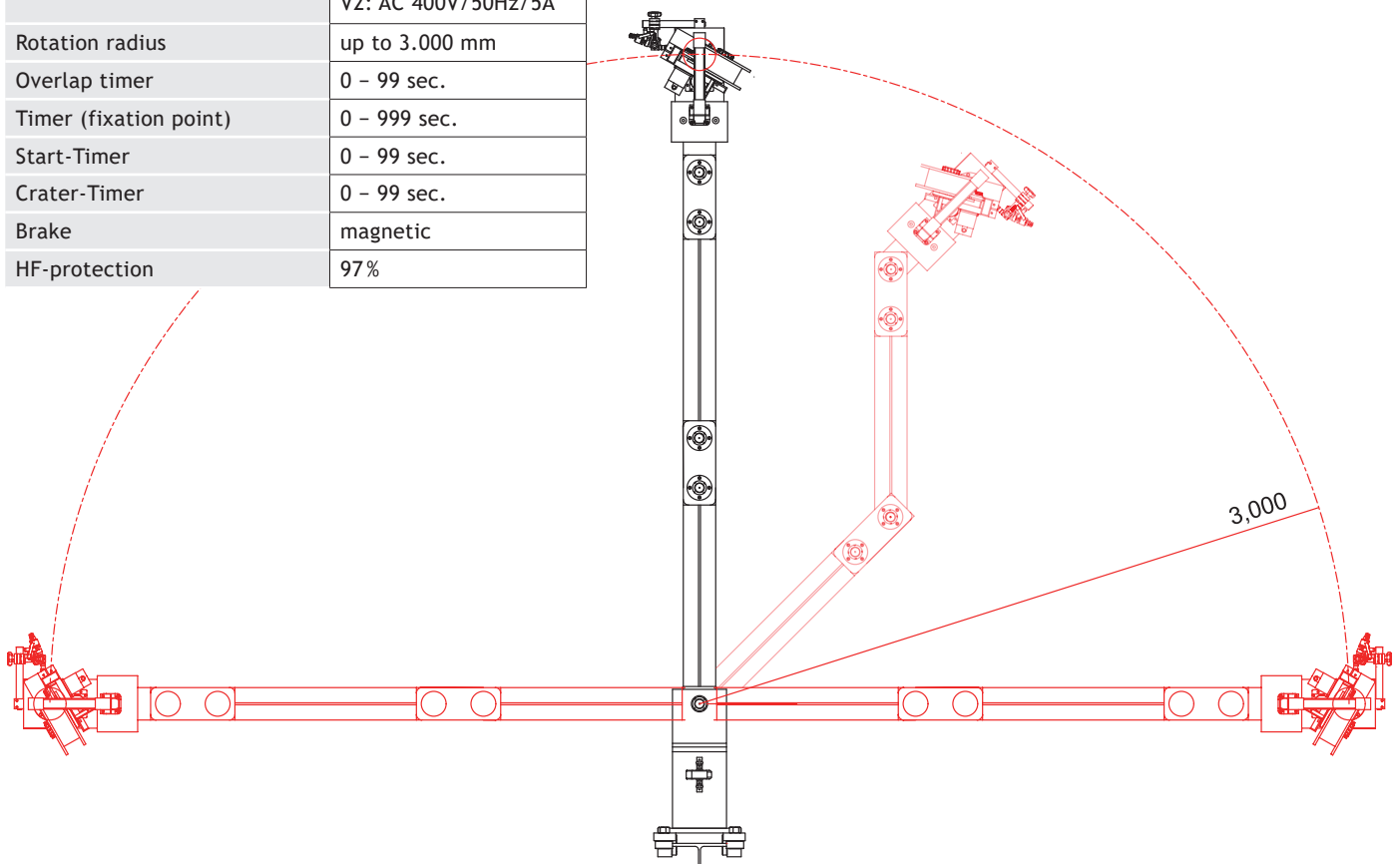
Automation – Circular Weld Seams

Welding beam AW3H

The configuration shown on page 162 is also available as a free-standing torch-beam.



Model	AW3H
Supply voltage	V1: AC 230V/60Hz/7A V2: AC 400V/50Hz/5A
Rotation radius	up to 3.000 mm
Overlap timer	0 – 99 sec.
Timer (fixation point)	0 – 999 sec.
Start-Timer	0 – 99 sec.
Crater-Timer	0 – 99 sec.
Brake	magnetic
HF-protection	97 %



Pipe Processing Unit

Rotator RCW

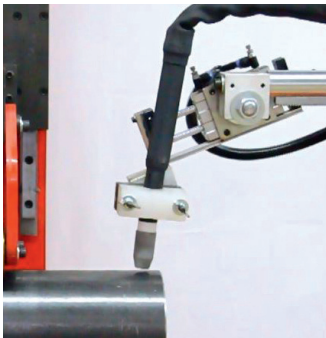
Features

- Ideal to welding from grounds at the front side.
- Stable and compact construction.
- Clamping without jaw chucks
- Pneumatic clamping unit as well as torch arm and limit stop.

Model	RCW-D01T1
Workpiece diameter	20 – 100 mm
Workpiece length	over 350 mm
Max. Load	150 kg
Rotating speed	240 – 2400 mm/min
PLC control	SIEMENS Technology



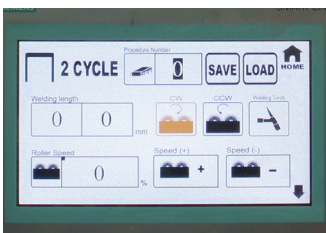
Pneumatic limit stop



pneumatic torch holder and stand



Also for internal welding



Touchscreen control



Part 1



Part 2

Productvideo



Pipe Processing Unit

Rotator RW1 for workpieces up to 2 t

Also
available
with
PLC

Features

- Compact and sturdy design
- For welding, cutting and grinding
- A wide range of pipes can be processed
Even pipe elbows or flanges are no problem
- Clamping without chuck
- lap-welding possible



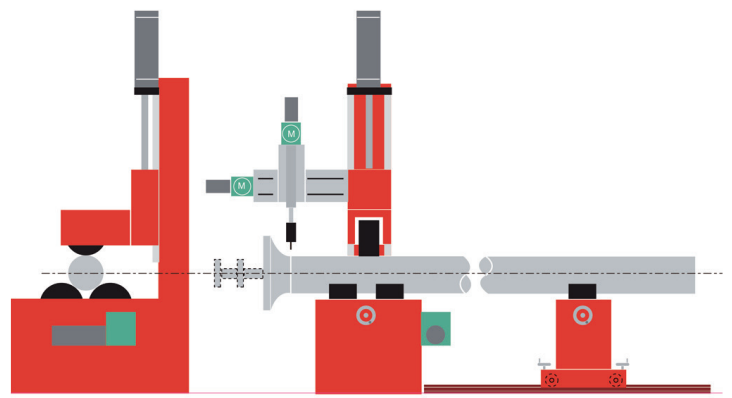
Model	RW1T
Supply voltage	AC 230 V/50 Hz
Max. load	2.000 kg
Workpiece diameter	50 – 400 mm
Min. workpiece length	450 mm
Rotation speed	200 – 2.000 mm/min.
Torch stroke, vertical	100 mm
Torch stroke, horizontal	200 mm
Speed control	Inverter

Scope of delivery:

- 1 Control (integrated)
- 1 Cable remote control

Optional:

- 1 Idler: 2.500,- €
- 1 m rail: 450,- €



Automate your welding processes with JAVAC



fig. RCW



Part 1



Part 2

Produktvideo



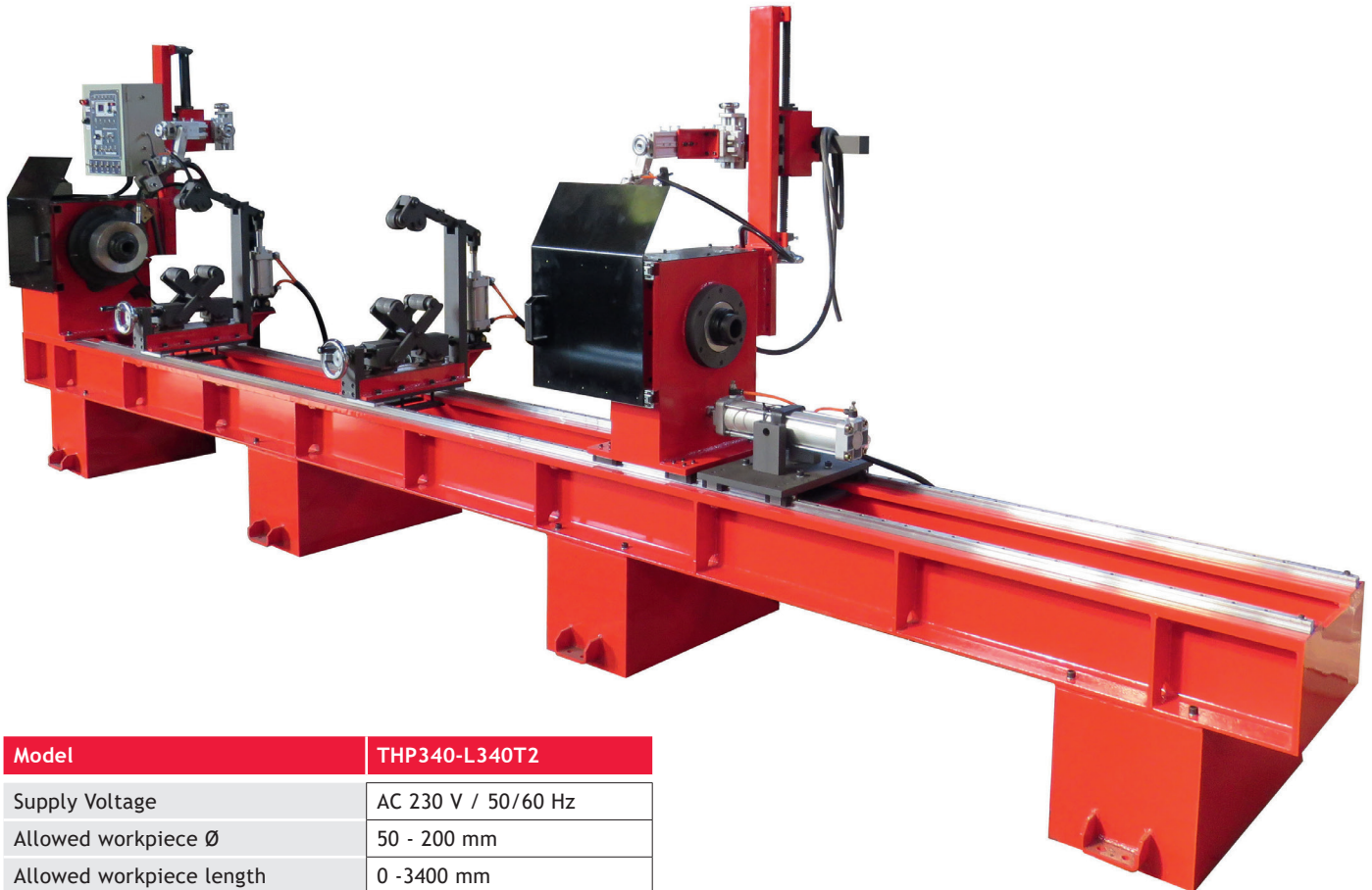
VIDEO

Automation – Longitudinal Seams

THP

Automation pipe cutting unit THP340-L340T2

The system is robust, so that the load capacity up to 600 kg is permissible, while the system is equipped with quick release on both sides. The THP340-L340T2 can be controlled manually or you can activate the automatic endurance function.



Model	THP340-L340T2
Supply Voltage	AC 230 V / 50/60 Hz
Allowed workpiece Ø	50 - 200 mm
Allowed workpiece length	0 - 3400 mm
Allowed workpiece weight	600 kg
Rotating speed	0,6 - 6,0RPM
Measurement LxWxH (mm)	5250x920x1800
Weight	1420kg
Price €	on request



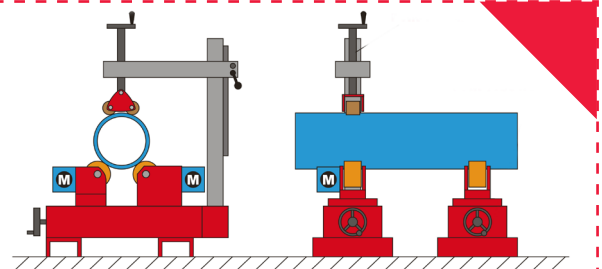
Productvideo



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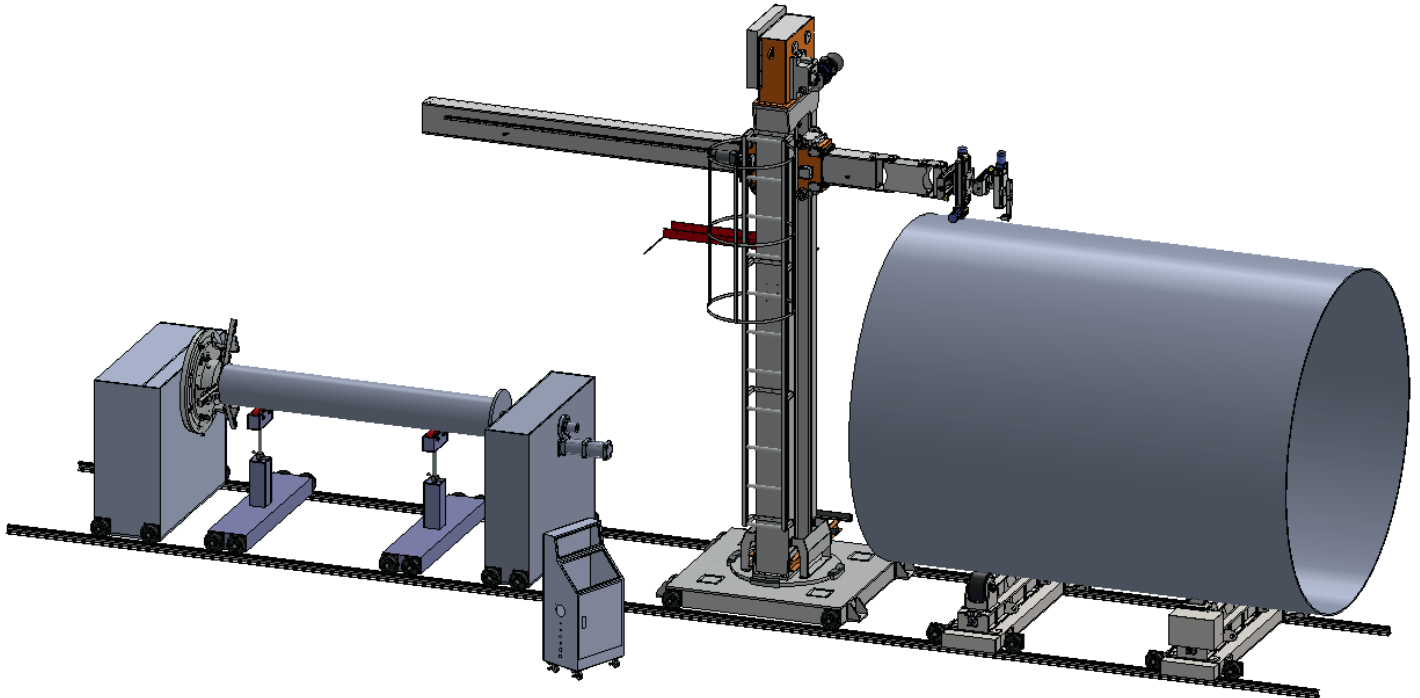
+497331/3058-0



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... from the planning to the finished system.



Manipulator with two operation slides for pipe-processing with turntable or roller block:

- 4.000 mm stroke
- 3.000 kg load
- 360° pivotable

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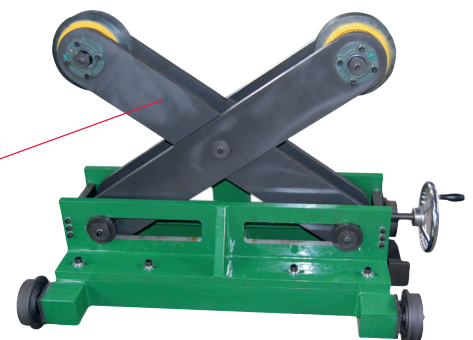
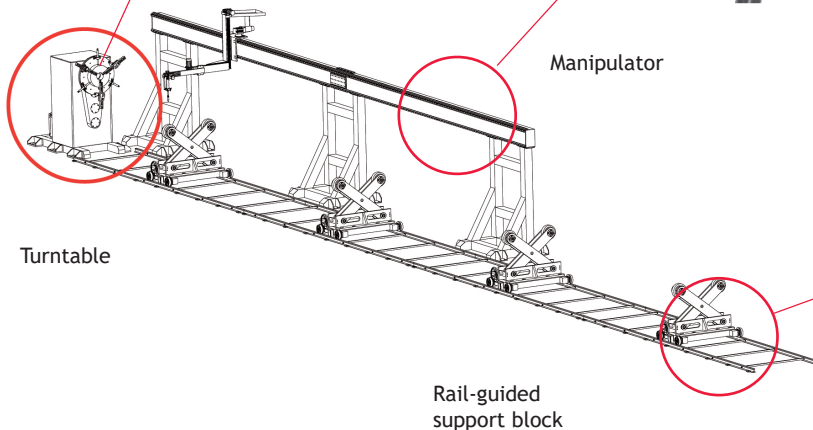
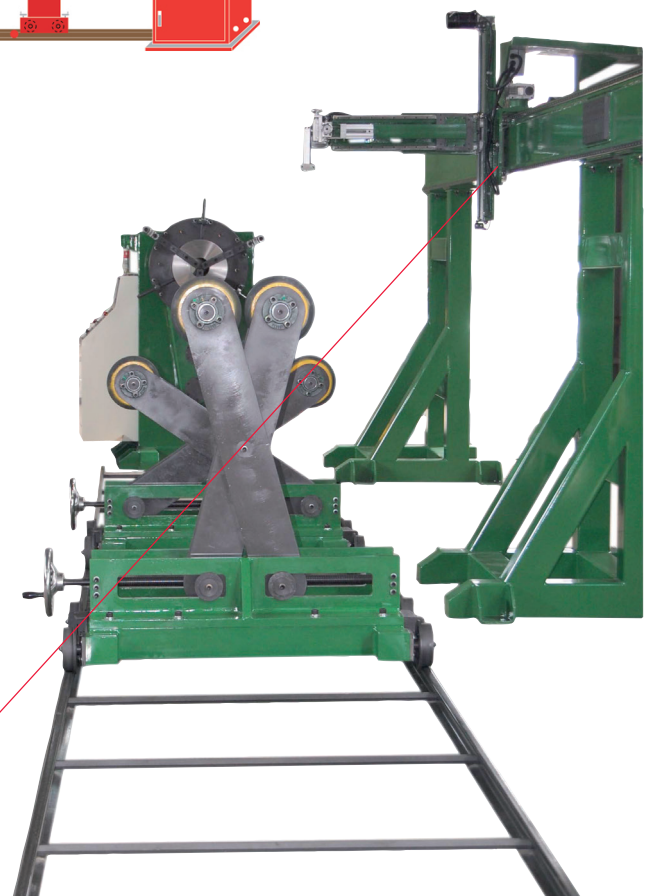
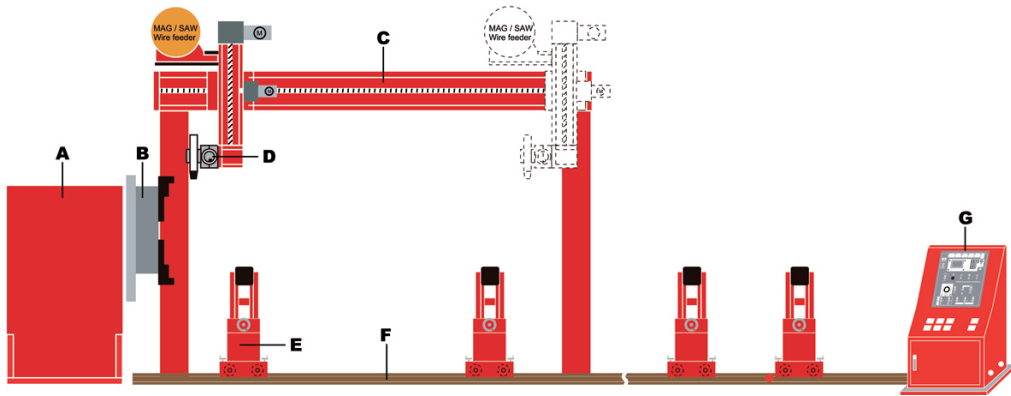
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Example H-beam

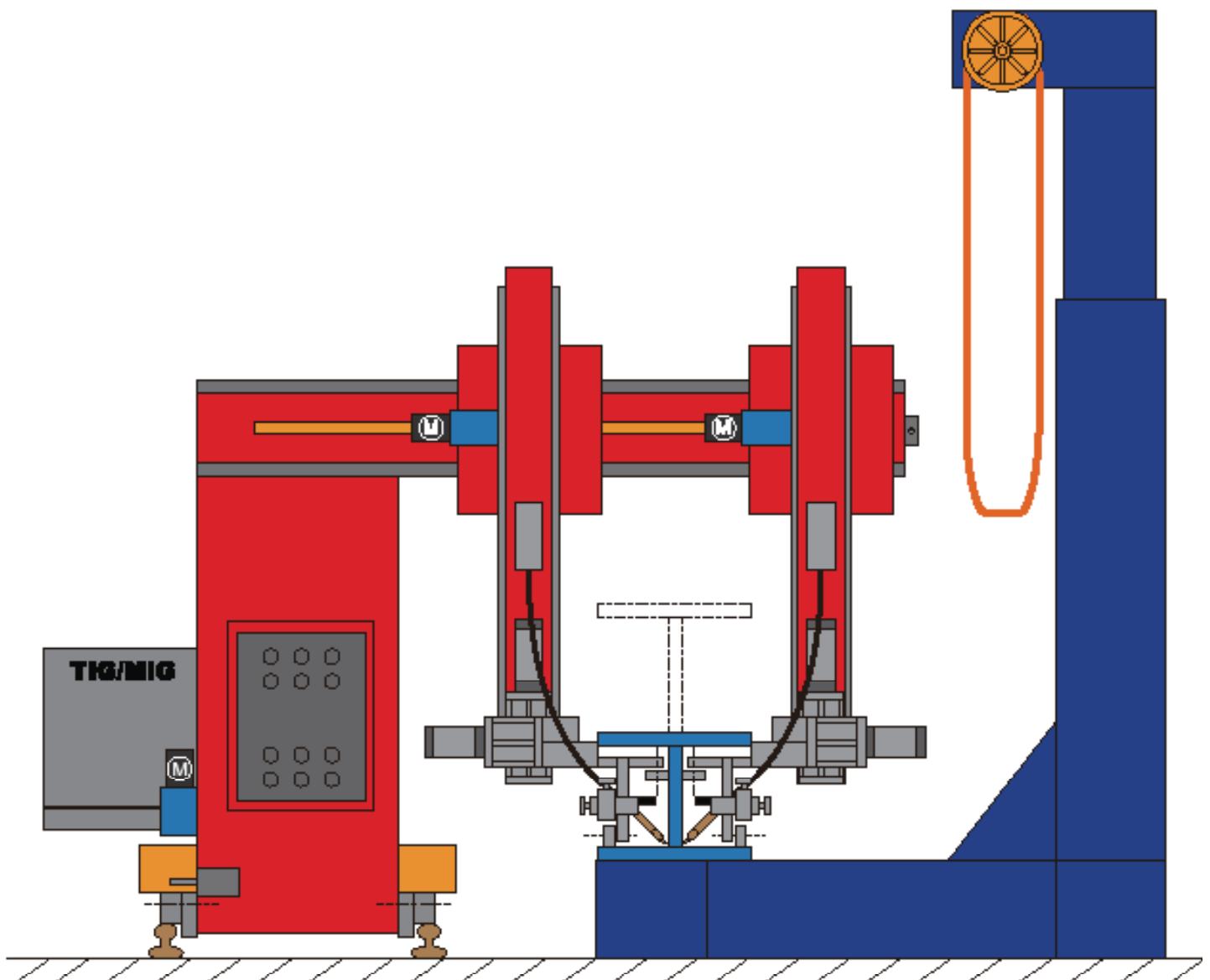
Model	LCT2-W02H14
Torch distance	0 – 200 mm
Distance workpiece/beam	1.400 mm
Max. load	1.500 kg
Movement speed	240 – 2.400 rpm
Beam load each	120 kg
Support stroke	100 mm (x-, y-, z-Axis)

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Example circumferential weld

Model	AVPW-1400PH
Workpiece diameter	8 – 500 mm
Workpiece length	1 – 1.400 mm
Load capacity	150 kg
Rotating speed	0,07 – 6,0 rpm
Table diameter	500 mm
Hollow shaft	60 mm
AVC altitude control (Lift)	100 mm
Control	COM 2800

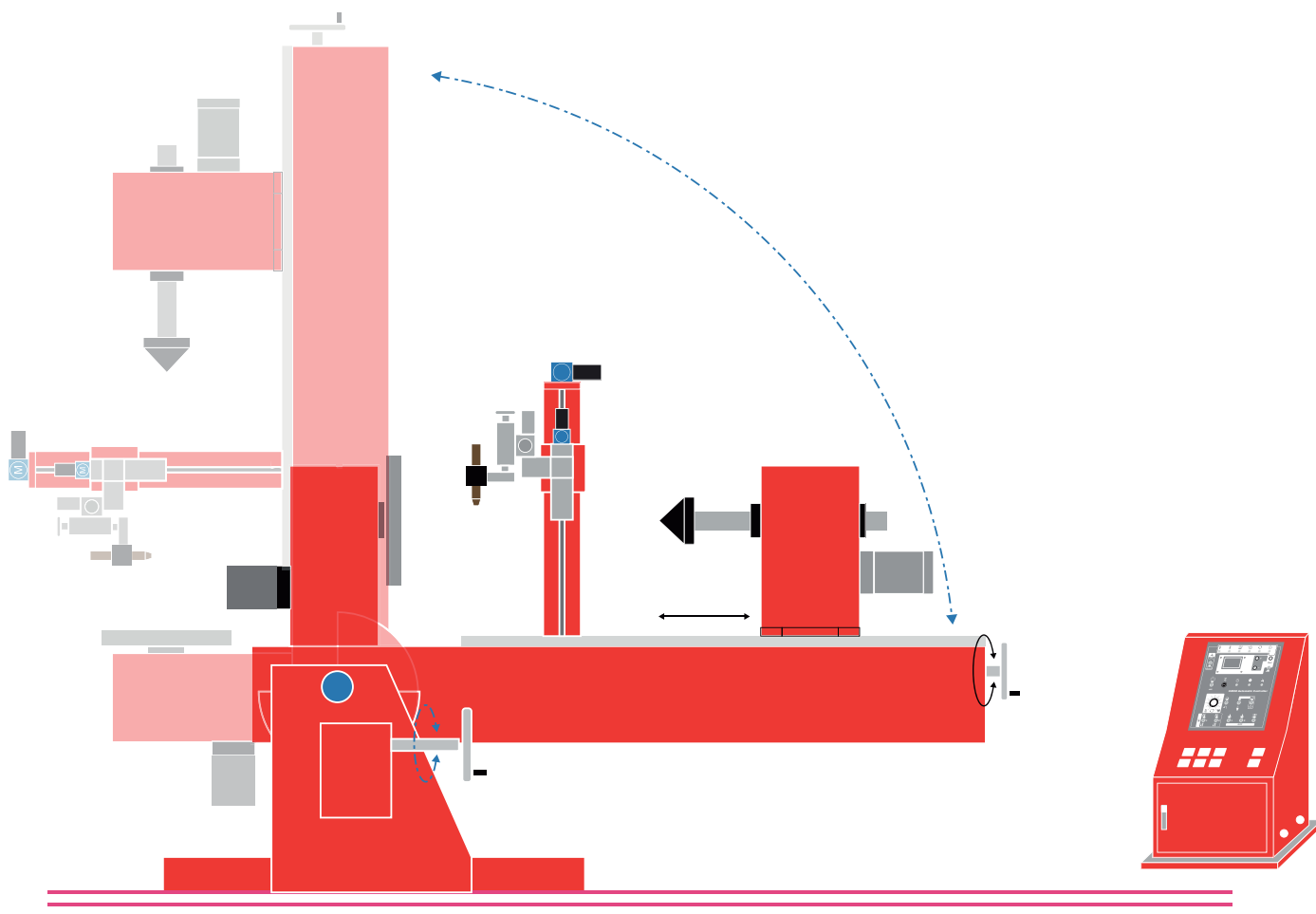
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Example Longitudinal seam

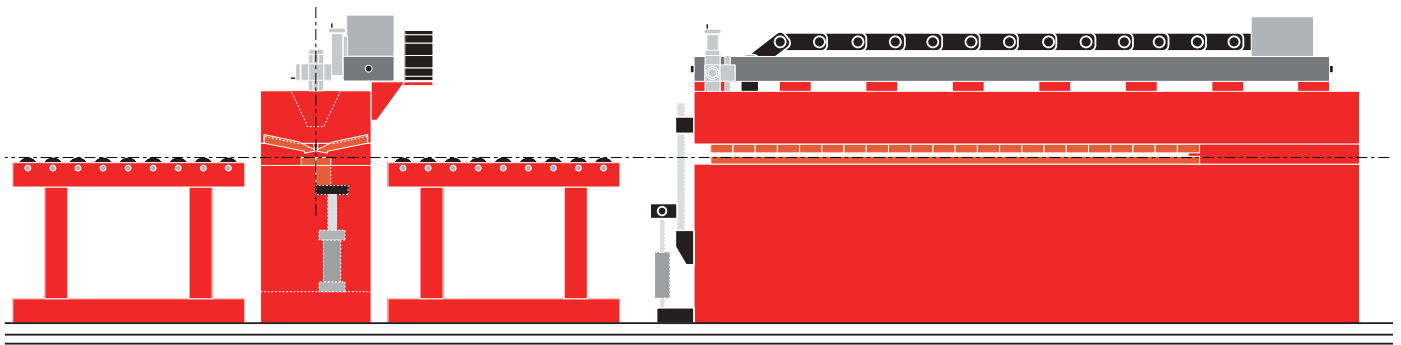
Model	PL-30T1
Workpiece diameter	0,8 – 6 mm
Workpiece length	1 – 3.000 mm
Load capacity	100 kg
Movement speed	200 – 2.400 mm/min
Vertical movement	3.000 mm
Pneumatic torch holder	100 mm Lift
Torch swivel range	180°

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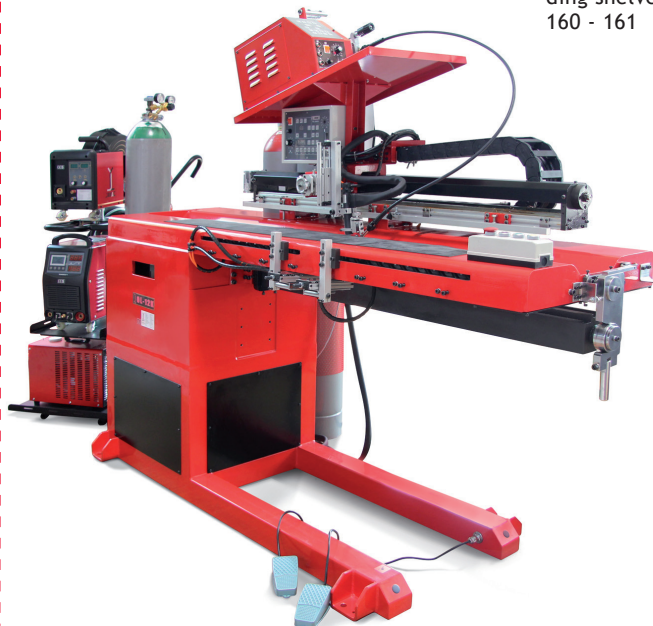
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Note

Standard Longitudinal seam welding shelves you will find on page 160 - 161



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Example combined longitudinal and circumferential seam welding machines

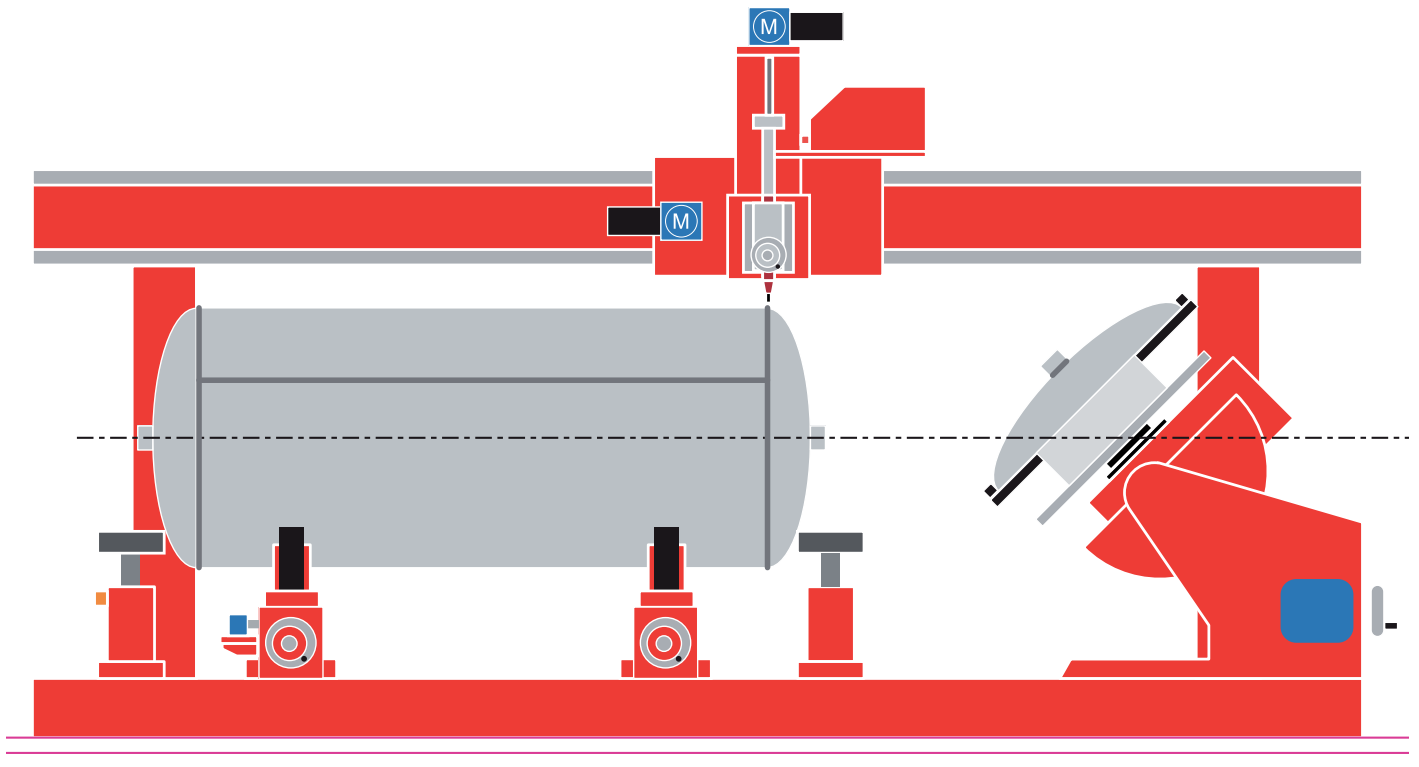
Model	LRP-D15L15T1
Workpiece diameter	250 – 1.000 mm
Workpiece length	400 – 3.000 mm
Load capacity	1.000 kg
Spin speed	180 – 1.800 mm/min
Torch movement speed	240 – 2.400 mm/min
Torch rotation	1,2 – 12 rpm
Loading boom	35 kg
Control	PLC

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Example combined longitudinal and circumferential seam welding machines

Model	LP-D15L30T
Workpiece diameter	80 – 1.500 mm
Workpiece length	400 – 3.000 mm
Load capacity	1.000 kg
Spinning speed	0,05 – 0,5 rpm
Torch movement speed	240 – 2.400 mm/min
Control	PLC

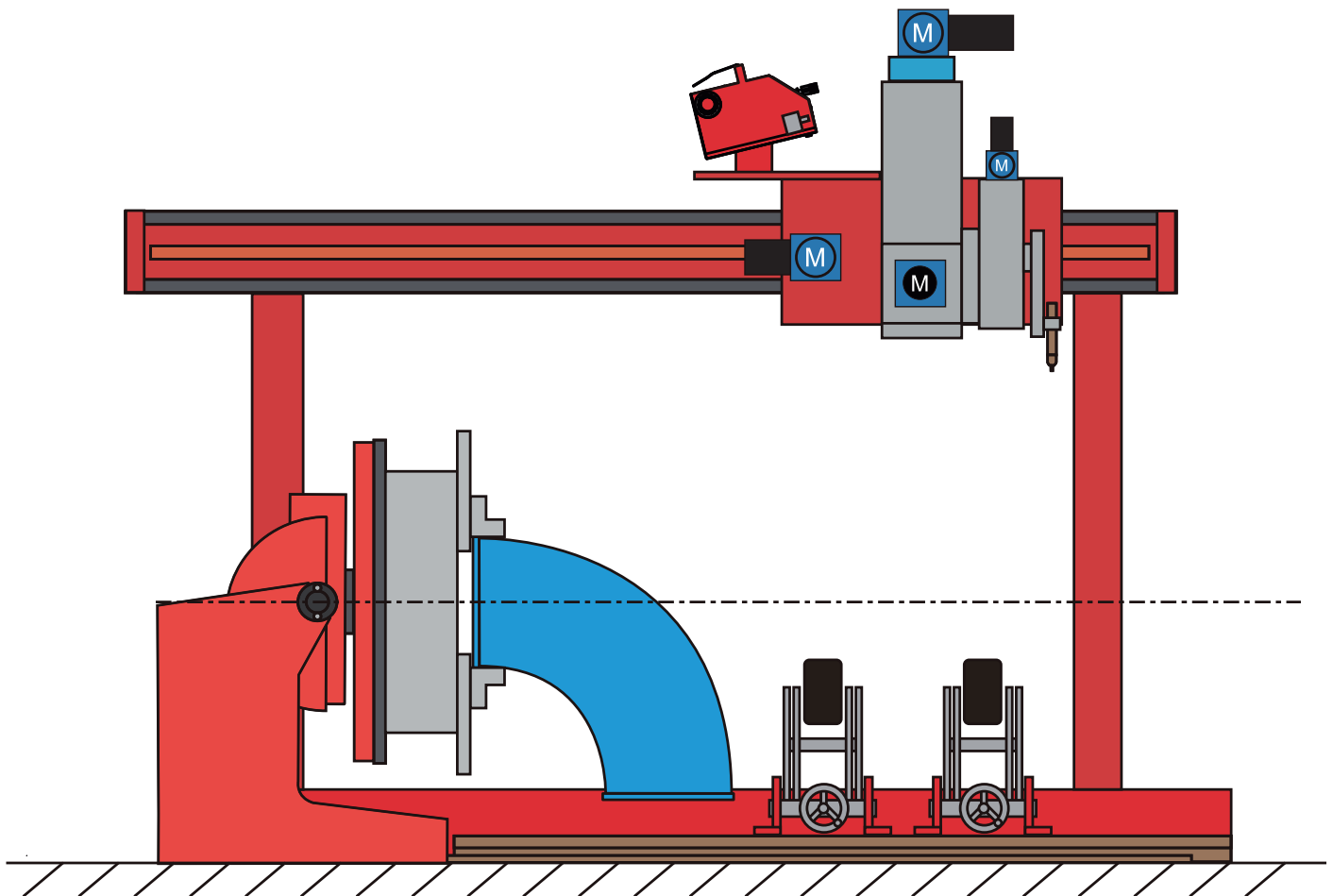
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Example welding portal

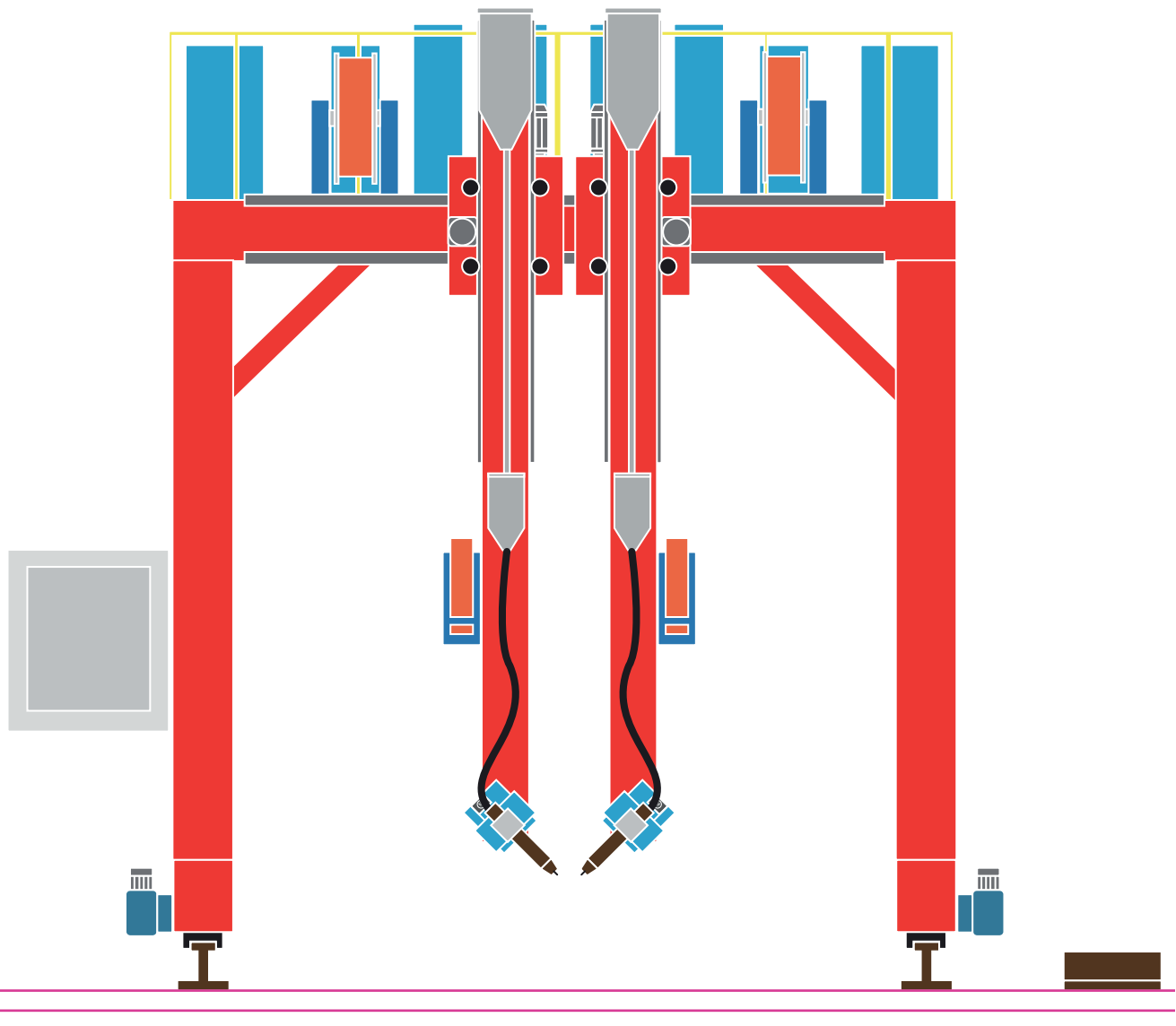
Model	SL-W30H25T2C
Internal dimensions portal	4.000 mm
Distance between the torch	30 – 3.000 mm
Max. vertical Torch movement speed (from ground)	300 – 2.500 mm
Horizontal movement speed	1.500 mm
Boom traverse	800 mm/min
Portal movement speed (on rail)	240 – 2.400 mm/min
Total capacity of the portal	2.000 kg

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Example Square tube welding and sliding system

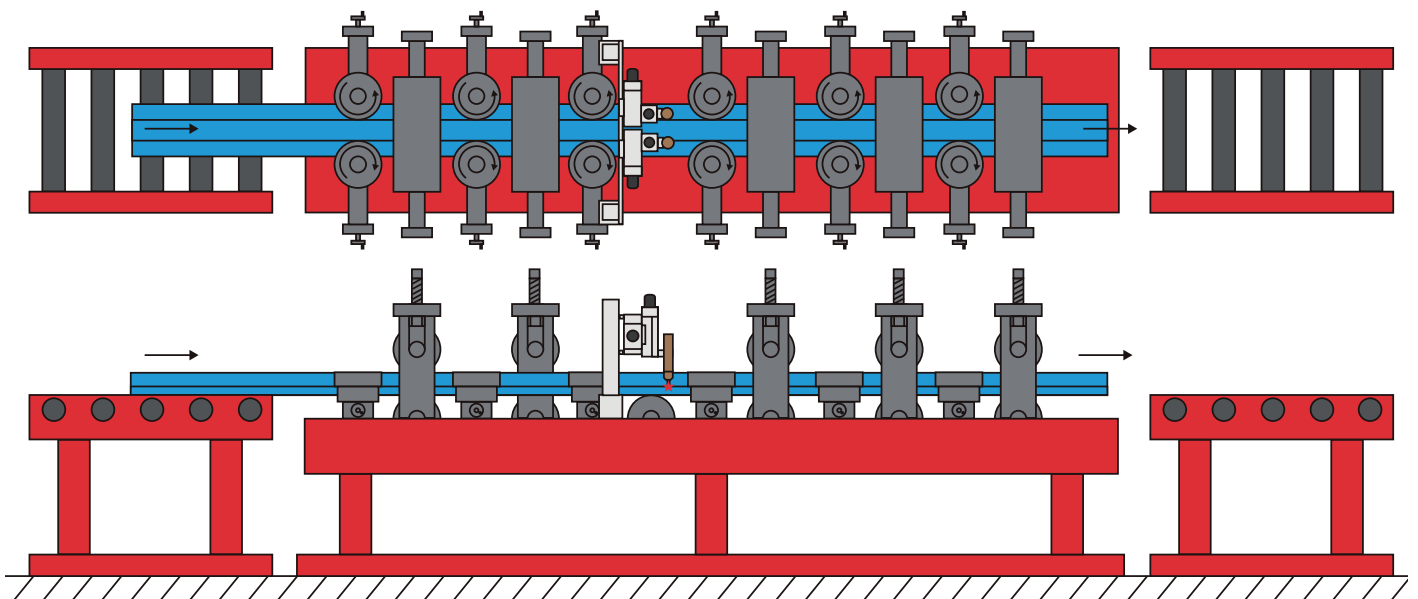
Model	TTP-W20H55T4
Workpiece width	50 – 210 mm
Workpiece height	90 – 510 mm
Workpiece length	from 300 mm
Feeding speed	180 – 1.800 mm/min
Quantity MIG-Torch	4 pc. possible
Quantity UP-Torch	2 pc. possible

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3. Die gesetzliche Mehrwertsteuer ist nicht in unseren Preisen eingeschlossen; sie wird in gesetzlicher Höhe am Tag der Rechnungstellung in der Rechnung gesondert ausgewiesen.
4. Der Abzug von Skonto bedarf besonderer schriftlicher Vereinbarung.
5. Sofern sich aus der Auftragsbestätigung nichts anderes ergibt, ist der Kaufpreis netto (ohne Abzug) sofort zur Zahlung fällig. Kommt der Käufer in Zahlungsverzug, so sind wir berechtigt, Verzugszinsen in Höhe von 8 % über dem jeweiligen Basiszinssatz p. a. zu fordern. Falls wir in der Lage sind, einen höheren Verzugschaden nachzuweisen, sind wir berechtigt, diesen geltend zu machen. Der Käufer ist jedoch berechtigt, uns nachzuweisen, dass uns als Folge des Zahlungsverzugs kein oder ein wesentlich geringerer Schaden entstanden ist.
6. Aufrechnungsrechte stehen dem Käufer nur zu, wenn seine Gegenansprüche rechtskräftig festgestellt, unbestritten oder von uns anerkannt sind. Außerdem ist er zur Ausübung eines Zurückbehaltungsrechts insoweit befugt, als sein Gegenanspruch auf dem gleichen Vertragsverhältnis beruht.

7. Wir sind berechtigt, trotz anderslautender Bestimmungen des Käufers Zahlungen zunächst auf dessen ältere Schulden anzurechnen, und werden den Käufer über die Art der erfolgten Verrechnung informieren. Sind bereits Kosten und Zinsen entstanden, so sind wir berechtigt, die Zahlung zunächst auf die Kosten, dann auf die Zinsen und zuletzt auf die Hauptleistung anzurechnen.
8. Eine Zahlung gilt erst dann als erfolgt, wenn wir über den Betrag verfügen können. Im Falle der Annahme von Schecks gilt die Zahlung erst als erfolgt, wenn der Scheck eingelöst wird.
9. Wenn uns Umstände bekannt werden, die die Kreditwürdigkeit des Käufers in Frage stellen, wenn er insbesondere einen Scheck nicht einlöst oder seine Zahlungen einstellt, oder wenn uns andere Umstände bekannt werden, die die Kreditwürdigkeit des Käufers in Frage stellen, so sind wir berechtigt, die gesamte Restschuld fällig zu stellen, auch wenn wir Schecks angenommen haben. Wir sind in diesem Falle außerdem berechtigt, Vorauszahlungen oder Sicherheitsleistung zu verlangen.

IV. Lieferung

1. Erfüllungsort der Lieferung ist das Warenlager Javac Deutschland GmbH. Versendet der Verkäufer die Ware auf Verlangen des Käufers an einen anderen Bestimmungsort, geht die Transportgefahr, auch bei Lieferung „frachtfrei“, in dem Moment auf den Käufer über, in dem die Ware der Transportperson übergeben wird.
2. Liefertermine oder -fristen, welche verbindlich oder unverbindlich vereinbart werden können, bedürfen der Schriftform.
3. Auch wenn eine kalendermäßig bestimmte Lieferzeit vereinbart ist, liegt noch kein Fixhandelsgeschäft im Sinne von §376 Abs.1 HGB vor. Hierfür bedarf es zusätzlich der Einigung der Vertragspartner darüber, dass z.B. bei Saisonware oder Werbeaktionen der Vertrag bei Nichteinhaltung der Lieferfrist ohne weiteres durch Rücktritt beendet und, sofern uns ein Verschulden trifft, Schadensersatz wegen Nichterfüllung verlangt werden kann. Der Beginn der von uns angegebenen Lieferzeit setzt die Abklärung aller technischen Fragen voraus. Die Lieferfrist beginnt mit der Absendung unserer Angebotsannahme, jedoch nicht vor Beibringen der vom Käufer zu beschaffenden Unterlagen sowie vor Eingang einer vereinbarten Anzahlung.
4. Wir haben Liefer- und Leistungsverzögerungen aufgrund höherer Gewalt und aufgrund von Ereignissen, die uns die Lieferung wesentlich erschweren oder unmöglich machen, insbesondere bei Arbeitskämpfen, Unruhen, behördlichen Maßnahmen und Ausbleiben von Zulieferungen unserer Lieferanten, auch bei verbindlich vereinbarten Fristen und Terminen nicht zu vertreten. Sie verändern die vereinbarten Termine und Fristen um die Dauer, der durch diese Umstände bedingten Leistungsstörung. Erst wenn die Liefer- und Leistungsverzögerung länger als 1 Monat dauert, ist der Käufer nach angemessener Nachfristsetzung berechtigt, hinsichtlich des noch nicht erfüllten Teils, vom Vertrag zurückzutreten. Verlängert sich die Lieferzeit oder werden wir von unserer Verpflichtung frei, so kann der Käufer hieraus keine Schadensersatzansprüche herleiten. Auf die genannten Umstände können wir uns nur berufen, wenn wir den Käufer unverzüglich benachrichtigen. Dies gilt sinngemäß für die Abnahmeverpflichtung des Käufers. Die Vertragspartner sind verpflichtet, dem anderen Teil Anfang und Ende von Hindernissen der vorbezeichneten Art unverzüglich mitzuteilen.
6. Teillieferungen und Teilleistungen sind, soweit handelsüblich, zulässig und werden gesondert in Rechnung gestellt. Sie sind ausnahmsweise dann unzulässig, wenn die teilweise Erfüllung des Vertrages für den Käufer kein Interesse hat.
7. Beeinflussen spätere Änderungen des Vertrages durch den Käufer die Lieferfrist, so kann sich diese in angemessenem Umfang verlängern.
8. Die Einhaltung unserer Lieferverpflichtung setzt die rechtzeitige und ordnungsgemäße Erfüllung der Verpflichtungen des Käufers voraus.
9. Wird der Versand auf Wunsch des Käufers verzögert, so werden ihm, beginnend einen Monat nach Anzeige der Versandbereitschaft, die durch die Lagerung entstandenen Kosten, bei Lagerung in unserem Werk mindestens jedoch 1/2 v. H. des Rechnungsbetrages für jeden Monat berechnet, es sei denn, der Käufer weist nach, dass uns nur geringere Kosten entstanden sind.

10. Kommt der Käufer in Annahmeverzug oder verletzt er sonstige Mitwirkungspflichten, so sind wir berechtigt, den uns entstehenden Schaden, einschließlich etwaiger Mehraufwendungen, zu verlangen. In diesem Fall geht auch die Gefahr eines zufälligen Untergangs oder einer zufälligen Verschlechterung der Kaufsache in dem Zeitpunkt auf den Käufer über, in dem dieser in Annahmeverzug gerät.
11. Wir haften nach den gesetzlichen Bestimmungen, soweit der zugrundeliegende Kaufvertrag ein Fixgeschäft im Sinn von § 323 Abs.2 Ziff.2 BGB oder von § 376 HGB ist. Wir haften auch nach den gesetzlichen Bestimmungen, sofern als Folge einer von uns zu vertretenden Lieferverzögerung der Käufer berechtigt ist geltend zu machen, dass sein Interesse an der weiteren Vertragserfüllung in Fortfall geraten ist.
12. Wir haften ferner nach den gesetzlichen Bestimmungen, sofern die Lieferverzögerung auf einer von uns zu vertretenden vorsätzlichen oder grob fahrlässigen Vertragsverletzung beruht; ein Verschulden unserer Vertreter oder Erfüllungsgehilfen ist uns zuzurechnen. Sofern die Lieferverzögerung nicht auf einer von uns zu vertretenden vorsätzlichen Vertragsverletzung beruht, ist unsere Schadenersatzhaftung auf den vorhersehbaren, typischerweise eintretenden Schaden begrenzt.
13. Wir haften auch nach den gesetzlichen Bestimmungen, soweit die von uns zu vertretende Lieferverzögerung auf der schuldhaften Verletzung einer wesentlichen Vertragspflicht beruht. In diesem Fall ist aber die Schadenersatzhaftung auf den vorhersehbaren, typischerweise eintretenden Schaden begrenzt.
14. Sofern die Lieferverzögerung lediglich auf einer schuldhaften Verletzung einer nicht wesentlichen Vertragspflicht beruht, ist der Käufer berechtigt, für jede vollendete Woche Verzögerung eine pauschalierte Entschädigung in Höhe von 3 % des Lieferwertes zu verlangen, jedoch maximal 15% des Lieferwertes.

V. Gefahrübergang

1. Die Gefahr geht auch bei frachtfreier Lieferung mit dem Verlassen des Lieferwerkes auf den Käufer über. Falls der Versand ohne unser Verschulden unmöglich wird, geht die Gefahr mit der Meldung der Versandbereitschaft auf den Käufer über. Sofern nicht anders vereinbart, wählen wir Verpackung, Versandart und Versandweg nach bestem Ermessen.
2. Auf schriftliches Verlangen des Käufers wird auf seine Kosten die Sendung durch uns gegen Diebstahl, Bruch, Transport, Feuer- und Wasserschäden sowie sonstige versicherbare Risiken versichert. Verzögert sich der Versand infolge von Umständen, die der Käufer zu vertreten hat, so geht die Gefahr vom Tage der Versandbereitschaft ab auf den Käufer über; jedoch sind wir verpflichtet, auf Wunsch und Kosten des Käufers die Versicherung zu bewirken, die dieser verlangt.

VI. Mängel der Kaufsache

1. Die Geltendmachung der Ansprüche und Rechte des Vertragspartners bei Sachmängeln setzt voraus, dass der Käufer seinen nach §§ 377, 378 HGB geschuldeten Untersuchungs- und Rügeobliegenheiten ordnungsgemäß nachgekommen ist.
2. Soweit ein Sachmangel der Kaufsache vorliegt, sind wir nach unserer Wahl zur Beseitigung des Mangels oder zur Ersatzlieferung innerhalb angemessener Frist berechtigt. Schlägt die von uns gewählte Mangelbeseitigung zweimal fehl, sind wir zur einmaligen Ersatzlieferung berechtigt. Für den Fall der Ersatzlieferung ist der Käufer zur Herausgabe der ursprünglichen Kaufsache verpflichtet. Die Kosten der Nacherfüllung werden nicht übernommen, soweit die Aufwendungen sich erhöhen, weil die Ware nach unserer Lieferung an einen anderen Ort verbracht worden ist, es sei denn, dies entspricht dem bestimmungsgemäßen Gebrauch der Ware. § 478 Abs.4 S.1 u.Abs.5 BGB bleiben unberührt.
3. Schlägt die Mangelbeseitigung/ Ersatzlieferung gem. Ziff. 2 fehl, so ist der Käufer nach seiner Wahl berechtigt, vom Vertrag zurückzutreten oder den Kaufpreis entsprechend herabzusetzen. Die §§ 323 Abs.5 S.2 BGB und § 478 Abs.4 S.1 u.Abs.5 BGB bleiben unberührt.
4. Rückgriffsansprüche des Käufers gegen uns bestehen nur insoweit, als der Käufer mit seinem Abnehmer keine Vereinbarung getroffen hat, die über die gesetzlichen Mängelansprüche hinausgehen.

5. Schlägt die Mangelbeseitigung / Ersatzlieferung gem. Ziff. 2 fehl, so ist der Käufer auch berechtigt, Schadensersatz zu verlangen (§ 281 Abs. 1 S.3 BGB bleibt unberührt), sofern wir den Mangel zu vertreten haben. Wir haften insoweit nur nach den gesetzlichen Bestimmungen, sofern der Käufer Schadensersatzansprüche geltend macht, die auf Vorsatz oder grober Fahrlässigkeit, einschließlich Vorsatz oder grober Fahrlässigkeit unserer Vertreter oder Erfüllungsgehilfen beruhen. Soweit uns keine vorsätzliche Vertragsverletzung angelastet wird, ist die Schadensersatzhaftung auf den vorhersehbaren, typischerweise eintretenden Schaden begrenzt. Wir haften auch nach den gesetzlichen Bestimmungen, sofern wir schuldhaft eine andere wesentliche Vertragspflicht als die Lieferung einer mangelfreien Sache verletzen; in diesem Fall ist aber die Schadensersatzhaftung auf den vorhersehbaren, typischerweise eintretenden Schaden begrenzt. Im übrigen ist die Schadenersatzhaftung ausgeschlossen; insoweit haften wir insbesondere nicht für Schäden, die nicht am Liefergegenstand selbst entstanden sind. Die zwingenden Bestimmungen des Produkthaftungsgesetzes bleiben unberührt.
6. Wir leisten für die Mangelfreiheit unserer Produkte Gewähr für den Zeitraum von 12 Monaten, gerechnet ab Gefahrenübergang; § 479 BGB bleibt unberührt.
7. Werden unsere Betriebs- oder Wartungsanweisungen nicht befolgt, Änderungen an den Produkten vorgenommen, Teile ausgewechselt oder Verbrauchsmaterialien verwendet, die nicht den Originalspezifikationen entsprechen, so entfällt jede Gewährleistung, wenn der Käufer eine entsprechende substantielle Behauptung, dass erst einer dieser Umstände den Mangel herbeigeführt hat, nicht widerlegt.
8. Im Falle einer Mitteilung des Käufers, daß der Kaufgegenstand mangelhaft ist, können wir verlangen, dass der Käufer nach unserer Wahl und auf unsere Kosten
 - a) die schadhafte Lieferung zur Reparatur und anschließender Rücksendung an uns schickt - soweit dies zumutbar ist - oder
 - b) der Käufer die schadhafte Lieferung bereithält und einer unserer Mitarbeiter zum Käufer geschickt wird, um die Reparatur vorzunehmen. Falls der Käufer entgegen unserem zumutbaren Verlangen den Kaufgegenstand nicht zusendet und verlangt, daß Gewährleistungsarbeiten an einem von ihm bestimmten Ort vorgenommen werden, trägt der Käufer die uns zusätzlich entstehenden Kosten, insbesondere zusätzliche Reisekosten und Arbeitszeit.

VII. Gesamthaftung

1. Hat der Käufer infolge des Mangels der Sache einen Schaden erlitten oder vergebliche Aufwendungen getätigt, so haftet der Verkäufer nach Ziff.VI.und Ziff.VII. Eine Haftung darüber hinaus ist ausgeschlossen.
2. Sollte der Käufer Schadensersatzansprüche geltend machen, so haftet der Verkäufer nach den gesetzlichen Bestimmungen betreff Vorsatz und grober Fahrlässigkeit. Für eine Haftung der Vertreter und Erfüllungsgehilfen gilt Ziff.VII.2. entsprechend. Sofern kein Vorsatz auf Seiten des Verkäufers vorliegt beschränkt sich die Haftung auf den vorhersehbaren, typischerweise eintretenden Schaden.
3. Verletzt der Verkäufer schuldhaft eine wesentliche Vertragspflicht, so ist die Haftung nach den gesetzlichen Bestimmungen, auf den vorhersehbaren, typischerweise eintretenden Schaden begrenzt.
4. Die Haftung wegen schuldhafter Verletzung des Lebens, des Körpers oder der Gesundheit bleibt unberührt. Dies gilt auch für die zwingende Haftung nach dem Produkthaftungsgesetz.
5. Ziff. VII 1., 2., 3., 4. gelten entsprechend, wenn der Einsatz von Aufwendungen geltend gemacht wird.
6. Soweit die Schadensersatzhaftung gegenüber dem Verkäufer ausgeschlossen oder eingeschränkt ist, gilt dies auch im Hinblick auf die persönliche Schadensersatzhaftung seiner Angestellten, Arbeiter, Mitarbeiter, Vertreter und Erfüllungsgehilfen. Ziff. VII.4. gilt entsprechend.

VIII. Eigentumsvorbehaltssicherung

1. Wir behalten uns das Eigentum an der Kaufsache bis zum Eingang aller Zahlungen aus der Geschäftsverbindung mit dem Käufer vor. Bei vertragswidrigem Verhalten des Käufers, insbesondere bei Zahlungsverzug, sind wir berechtigt, auch ohne Nachfristsetzung, sofort vom Vertrag zurückzutreten oder, auch ohne Rücktritt vom Vertrag, die Kaufsache herauszuverlangen. Im Herausverlangen der Kaufsache durch uns liegt kein Rücktritt vom Vertrag, es sei denn, wir hätten dies ausdrücklich schriftlich erklärt. In der Pfändung der Kaufsache durch uns liegt stets ein Rücktritt vom Vertrag. Wir sind nach Rücknahme der Kaufsache zu deren Verwertung befugt, der Verwertungserlös ist auf die Verbindlichkeiten des Bestellers abzüglich angemessener Verwertungskosten anzurechnen.
2. Der Käufer ist verpflichtet, die Kaufsache pfleglich zu behandeln; insbesondere ist er verpflichtet, diese auf eigene Kosten gegen Feuer-, Wasser-, und Diebstahlschäden ausreichend zum Neuwert zu versichern. Sofern Wartungs- und Inspektionsarbeiten erforderlich sind, muss der Vertragspartner diese auf eigene Kosten rechtzeitig durchführen. Bei Pfändungen oder sonstigen Eingriffen Dritter, hat uns der Käufer unverzüglich schriftlich zu benachrichtigen, damit wir Klage gemäß § 771 ZPO erheben können.
3. Soweit der Dritte nicht in der Lage ist, uns die gerichtlichen und außergerichtlichen Kosten einer Klage gemäß § 771 ZPO zu erstatten, haftet der Käufer für den uns entstandenen Ausfall.
4. Der Käufer ist berechtigt, die Kaufsache im ordentlichen Geschäftsgang weiter zu verkaufen; er tritt uns jedoch bereits jetzt alle Forderungen in Höhe des Faktura-Endbetrages (einschließlich MwSt) unserer Forderung ab, die ihm aus der Weiterveräußerung gegen seine Abnehmer oder Dritte erwachsen, und zwar unabhängig davon, ob die Kaufsache ohne oder nach Verarbeitung weiter verkauft worden ist. Wir nehmen die Abtretung an. Zur Einziehung dieser Forderung bleibt der Käufer auch nach der Abtretung ermächtigt. Unsere Befugnis, die Forderung selbst einzuziehen, bleibt hiervon unberührt. Wir verpflichten uns jedoch, die Forderung nicht einzuziehen, solange der Käufer seinen Zahlungsverpflichtungen aus den vereinnahmten Erlösen nachkommt, nicht in Zahlungsverzug gerät und insbesondere kein Antrag auf Eröffnung eines Insolvenzverfahrens gestellt ist oder Zahlungseinstellung vorliegt. Ist aber dies der Fall, so können wir verlangen, dass der Käufer uns abgetretene Forderungen und deren Schuldner bekanntgibt, alle zum Einzug erforderlichen Angaben macht, die dazugehörigen Unterlagen aushändigt und den Schuldner (Dritte) die Abtretung mitteilt.
5. Die Verarbeitung oder Umbildung der Kaufsache durch den Käufer wird stets für uns vorgenommen. Wird die Kaufsache mit anderen, uns nicht gehörenden Gegenständen verarbeitet, so erwerben wir das Miteigentum an der neuen Sache im Verhältnis des Wertes der Kaufsache (Faktura-Endbetrag, einschließlich MwSt) zu den anderen verarbeiteten Gegenständen zur Zeit der Verarbeitung. Für die durch Verarbeitung entstehende Sache gilt im Übrigen das gleiche wie für die unter Vorbehalt gelieferte Kaufsache.
6. Wird die Kaufsache verarbeitet, mit anderen, uns nicht gehörenden Gegenständen untrennbar vermischt, vermengt oder verbunden, so erwerben wir das Miteigentum an der neuen Sache im Verhältnis des Wertes der Kaufsache (Faktura-Endbetrag, einschließlich MwSt) zu den anderen vermischten Gegenständen zum Zeitpunkt der Vermischung. Erfolgt die Vermischung in der Weise, dass die Sache des Käufers als Hauptsache anzusehen ist, so gilt als vereinbart, dass der Käufer uns anteilmäßig Miteigentum überträgt. Der Käufer verwahrt das so entstandene Alleineigentum oder Miteigentum für uns.
7. Der Käufer tritt uns auch die Forderung zur Sicherung unserer Forderungen gegen ihn ab, die durch die Verbindung der Kaufsache mit einem Grundstück gegen einen Dritten erwachsen. Wir nehmen die Abtretung an.
8. Wir verpflichten uns, die uns zustehenden Sicherheiten auf Verlangen des Käufers insoweit freizugeben, als der realisierbare Wert unserer Sicherheiten die zu sichernden Forderungen um mehr als 10 % übersteigt; die Auswahl der freizugebenden Sicherheiten obliegt uns.

IX. Konstruktionsänderung

Wir behalten uns das Recht vor, jederzeit Konstruktionsänderungen vorzunehmen; wir sind jedoch nicht verpflichtet, derartige Änderungen auch an bereits ausgelieferten Produkten vorzunehmen.

X. Abtretung

Wir sind berechtigt, die Ansprüche aus unserer Geschäftsverbindung abzutreten.

XI. Schuldbefreiung

Zahlungen mit befreiender Wirkung bei Warenlieferungen mit Zahlungsziel können nur an den Factor geleistet werden, an den wir unsere Ansprüche aus unserer Geschäftsverbindung aufgrund eines Factoring Vertrages übertragen und verkauft haben.

XII. Anwendbares Recht, Gerichtsstand, Teilnichtigkeit

1. Für diese Geschäftsbedingungen und die gesamten Rechtsbeziehungen zwischen den Vertragspartnern gilt ausschließlich das Recht der Bundesrepublik Deutschland. Insbesondere ist die Anwendung des Übereinkommens der Vereinten Nationen vom 11. April 1980 über Verträge über den Warenkauf (CISG - „Wiener Kaufrecht“) ausgeschlossen.
2. Für alle Rechtsstreitigkeiten, auch im Rahmen eines Wechsel- und / oder Scheckprozesses, ist unser Geschäftssitz Erfüllungsort und der Gerichtsstand ist das Amtsgericht / Landgericht Ulm, soweit der Käufer Kaufmann, eine juristische Person des öffentlichen Rechts oder ein öffentlichrechtliches Sondervermögen ist. Wir sind auch berechtigt, am Sitz des Käufers zu klagen.
3. Sollte eine Bestimmung in diesen Geschäftsbedingungen oder eine Bestimmung im Rahmen sonstiger Vereinbarungen unwirksam sein oder werden, so wird hiervon die Wirksamkeit des Vertrages im Übrigen nicht berührt. In diesem Fall sind die Vertragspartner verpflichtet, die unwirksame Bestimmung durch eine ihr im wirtschaftlichen Erfolg möglichst gleichkommende Regelung zu ersetzen.

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