

Welding tractors

MIG-500 and MIG 502 with magnet

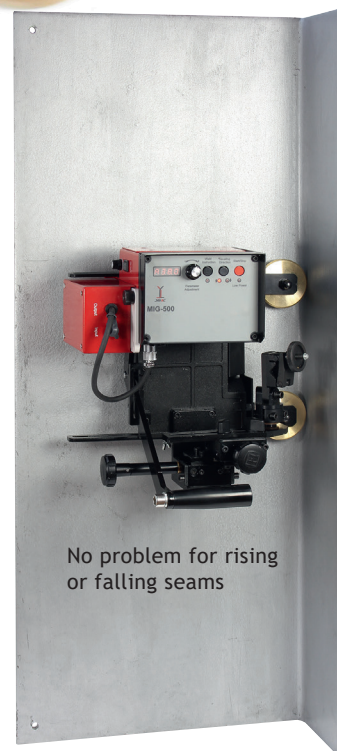
Choice of tractor with battery or mains adapter

With large scope of delivery

With the MIG 500 and MIG 502 you can easily weld vertically and horizontally, with or without a guide rail. The tractors can be used on different rails (see page 72)



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 sec.
Oscillation angle		0 ~ ± 5°
Measurements (LxWxH) 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

Accessories optionally for battery mode	Item no.
Charger	02.20.02.11000
Battery MIG 500 and MIG 502	02.20.02.11010
Accessories optionally for mains op.	Item no.
Power supply	02.20.02.11100
Cable set 15 m Control cable 5 m	02.20.02.11105
Accessories optional	Item no.
Adapter for oxyfuel torch	02.20.02.10020

Scope of delivery:

- 1 Welding tractor
- 1 Pair claws for Nylon- and alu-rail
- 1 Pair claws for steel-rail

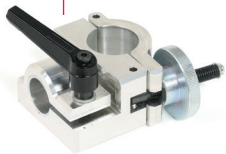
Welding tractors

MIG-500 and MIG 502 with magnet

Choice of tractor with battery or mains adapter

Features

- Robust, compact casing.
- Easy handling
- Welding in both driving directions possible.
- Continuous driving speed with digital display
- Digital display
- For MIG 502 Oscillator angle
- Also suitable for oxy-acetylene work



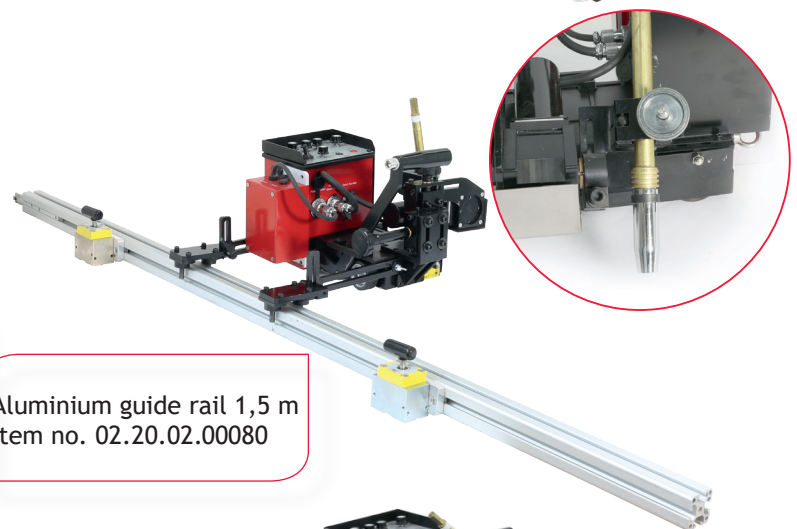
Attachement for cutting torch,
Item no. 02.20.02.10020



additional battery for MIG 500
and MIG 502
Item no. 02.20.02.11010



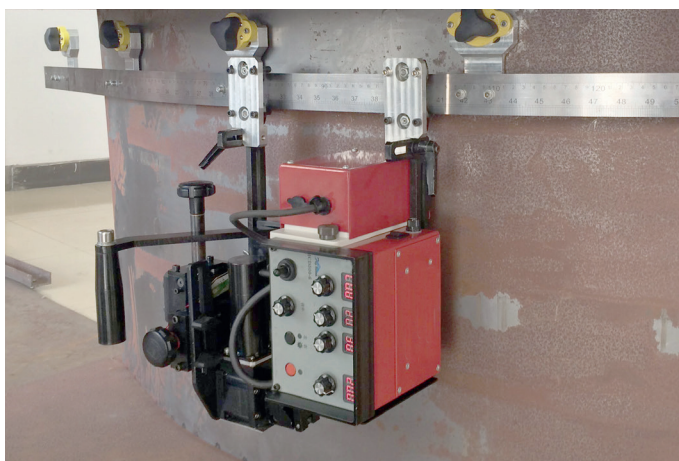
Flexible steel-rail 1,5 m
Item no. 02.20.02.00070



Aluminium guide rail 1,5 m
Item no. 02.20.02.00080



Flexible guide rail 1,5 m
Item no. 02.20.02.00050



Tractor drive on Flexible steel-rail



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

Welding tractors

MIG 1 A

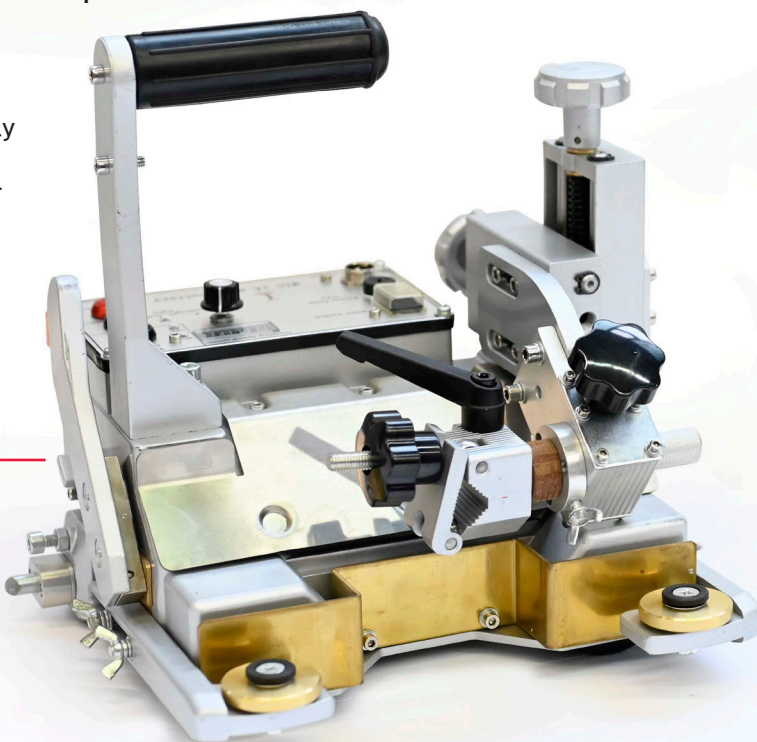
Choice of tractor with battery or mains adapter

Welding with tractors - a clean solution

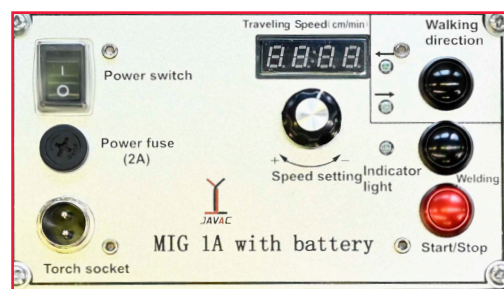
Welding tractors are used effectively above all for welding fillet welds in numerous variations. Particularly long weld seams can be worked comfortably and cleanly with a welding tractor - and without any manual intervention thanks to the strong magnet and the precise guide wheels!

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.**
- Continius driving speed
- Easy handling with magnet release lever;
- Welds in both directions.
- Limit switch on both sides.



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	35 ~ 9330
Measurement (LxWxH) mm	280 x 260 x 265
Weight	7,6 kg
Item no.	02.20.01.00010



Display MIG 1A

Scope of delivery:

1 Welding tractor

Optional:

Charger, Battery or
Power supply, Cable set
15 m,

Accessories optionally for battery mode	Item no.
Charger	02.20.02.11000
Battery MIG 1A and MIG 1B	02.20.02.11012
Accessories optionally for mains op.	Item no.
Power supply	02.20.02.11100
Cable set 15 m Control cable 5 m	02.20.02.11105

Welding tractors

MIG 1 B

A reliable partner

The MIG 1 B is mainly used in ship, bridge and locomotive construction, as well as in the steel and petrochemical industries. Automatic welding with tractor improves the quality of the welds and virtually eliminates defective seams. Thanks to the limit switches on both sides of the MIG 1 B, the tractor stops automatically when it reaches the end of the work-piece or encounters an obstacle on the side. Thus, several tractors can be operated simultaneously by only one person without any problems.

Features

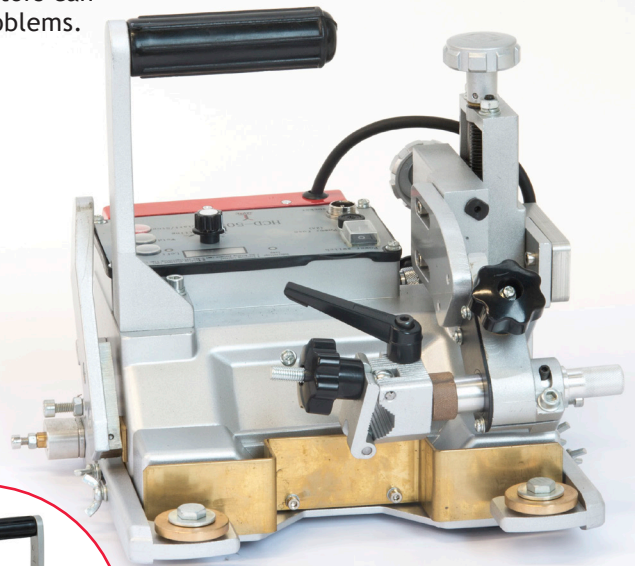
- Stabiles, kompaktes Gehäuse; leicht tragbar.
- Mit Hochleistungsmagnet.
- Niedriger Gewichtsschwerpunkt mit hoher Zugkraft (16 kg); **vertikales Fahren möglich.**
- Einfache Handhabung mit Magnetfreigabehebel
- Schweißt in beiden Fahrtrichtungen.
- Anwendung im horizontalen Kehlnahtschweißen mit breitem Bereich der Schweißgeschwindigkeitskontrolle.
- Kraterfüllen für einen sauberen Abschluss.
- Endschalter an beiden Seiten.
- Pausenweg und Schweißweg einstellbar

Scope of delivery:

1 Welding tractor

Optional:

Charger, Battery or Power supply, Cable set 15 m,



Automatischer Endschalter bei Hindernis



Bedienfeld

Model	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	8,6 kg
Item no.	02.20.01.00020

Accessories optionally for battery mode	Item no.
Charger	02.20.02.11000
Battery MIG 1A and MIG 1B	02.20.02.11012
Accessories optionally for mains op.	Item no.
Power supply	02.20.02.11100
Cable set 15 m Control cable 5 m	02.20.02.11105

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.



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

Accessories optionally for battery mode	Item no.
Charger	02.20.02.11000
Battery MIG 1DUO	02.20.02.11010
Accessories optionally for mains op.	Item no.
Power supply	02.20.02.11100
Cable set 15 m Control cable 5 m	02.20.02.11105

Scope of delivery:

1 Welding tractor

Optional:

Charger, Battery or Power supply, Cable set 15 m,

Welding tractors

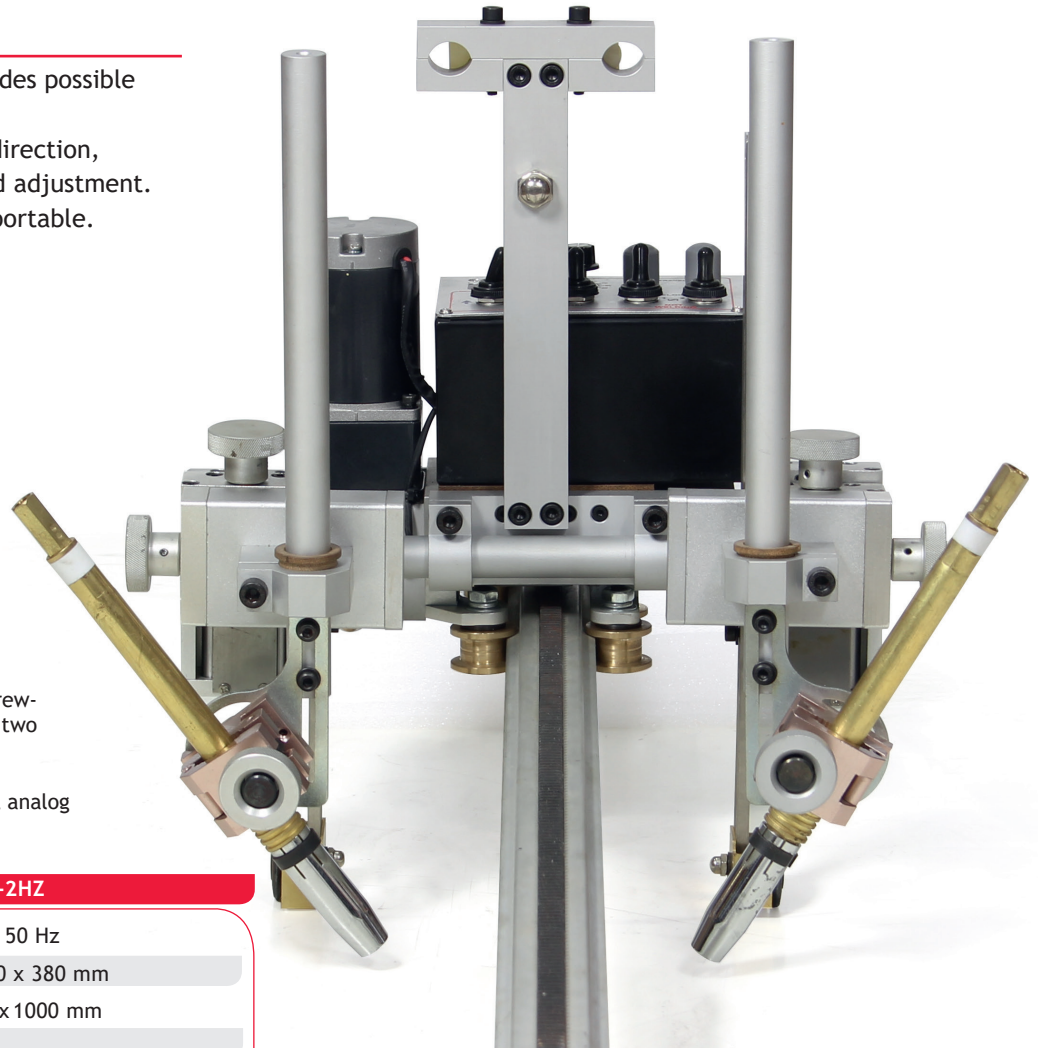
MIG-100-2HZ

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 up/down 30 mm
Adjustment range torch	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.	02.20.01.21030 (old:72203130)

*Accessories optional	Item no.
Magnetic-rack rail, permanent mag. 1,5 m	02.20.02.20010 (old: 72203105)
Magnetic-rack rail, switch mag. 1,5 m	02.20.02.20020 (old: 72203106)
Rack-rail, screw clamp 1,5 m	02.20.02.20030
Vakuum rack rail	72203305



* Accessories see pages 72-73

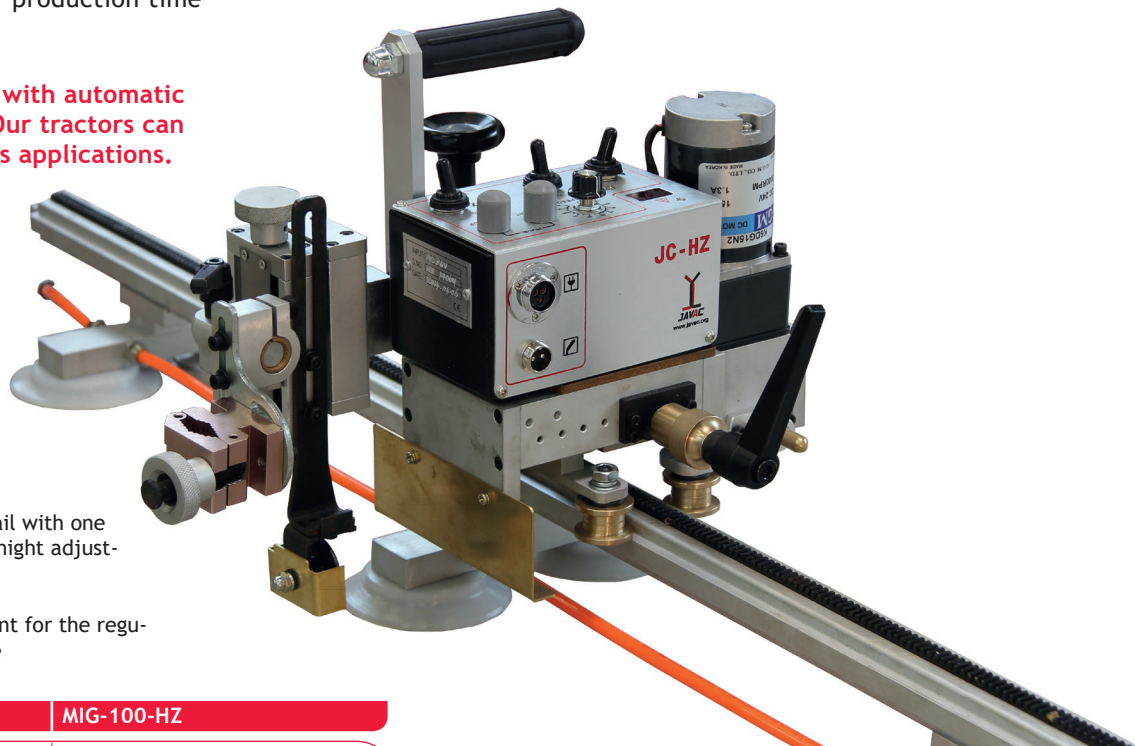
Welding tractors

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

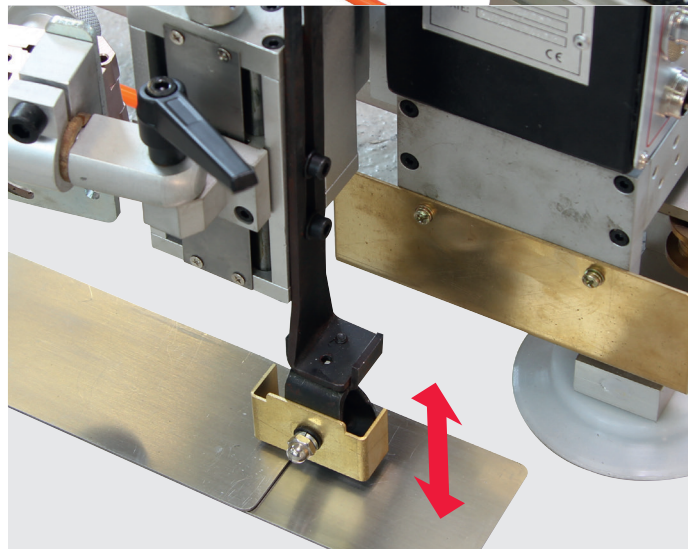
Tractor also available with automatic weld seam tracking! Our tractors can be adapted for various applications.



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

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 up/down 30 mm
Adjustment range torch	left/right 30 mm working angle 45°
Movement direction	up/down, left/right
Incl. gear-rack	-
Item no.	02.20.01.21020 (old:72203120)



*Accessories optional	Item no.
Magnetic-rack rail, permanet mag. 1,5 m	02.20.02.20010 (old: 72203105)
Magnetic-rack rail, switch mag. 1,5 m	02.20.02.20020 (old: 72203106)
Rack-rail, screw clamp 1,5 m	02.20.02.20030
Vakuum rack rail	72203305

* Accessories see pages 72-73

Welding tractors

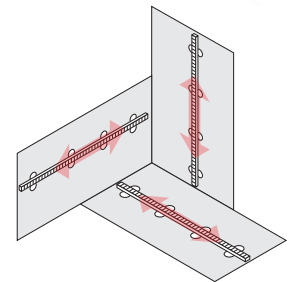
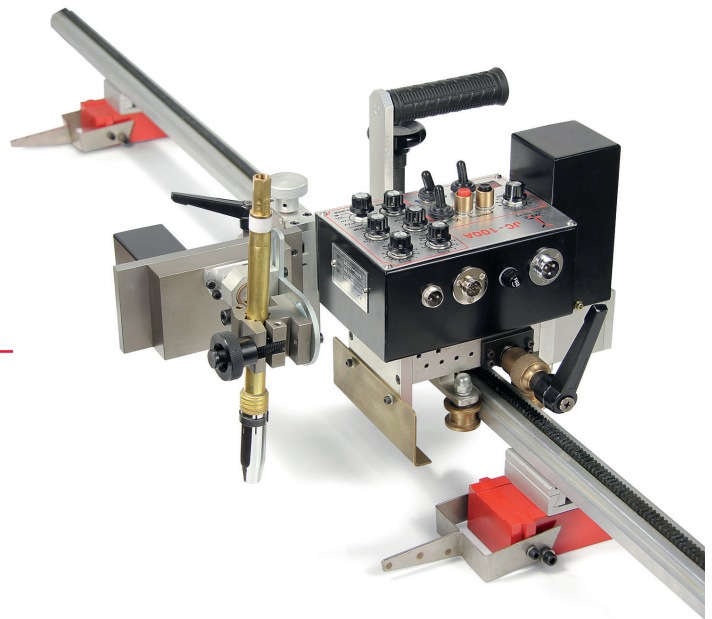
MIG-100A

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.



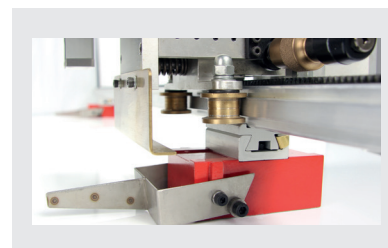
Suitable for all welding positions.
Can only be used on straight lines.



Magnetic gear rail permanent magnet

Model	MIG-100A
Supply voltage	AC 230V, 50 Hz
Carriage measurements	500 x 355 x 243 mm
Rail measurements	42x29, 3x1500 mm
Carriage weight	10 kg
Rail weight	6 kg (incl. magnet)
Drive	gear wheel
Carriage speed	0 - 1060 mm/min up / down 50 mm
Adjustment range torch	cw / ccw 150 mm operating angle 360°
Oscillator speed	0 - 2300 mm/min
Movement direction	up / down/left/right
Oscillator width	0 - 35 mm
Oscillator curves	
Dwelling time left/right	0 - 2 s
Central position	± 5 mm
Item no. with oscillator	02.20.01.21010 (old: 72203110)

* Accessories see pages 72-73



Gear rail with magnetic holder

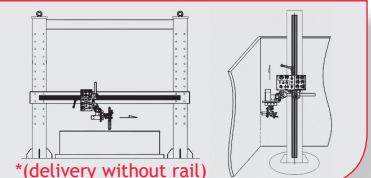


Optional switch magnet with high retention force and simple on/off mechanical system

Scope of delivery:

- 1 Welding tractor
- 1 Transformer

*(delivery without rail)



*(delivery without rail)

*Accessories optional	Item no.
Magnetic-rack rail, permanent mag. 1,5 m	02.20.02.20010 (old: 72203105)
Magnetic-rack rail, switch mag. 1,5 m	02.20.02.20020 (old: 72203106)
Rack-rail, screw clamp 1,5 m	02.20.02.20030
Vakuum rack rail	72203305

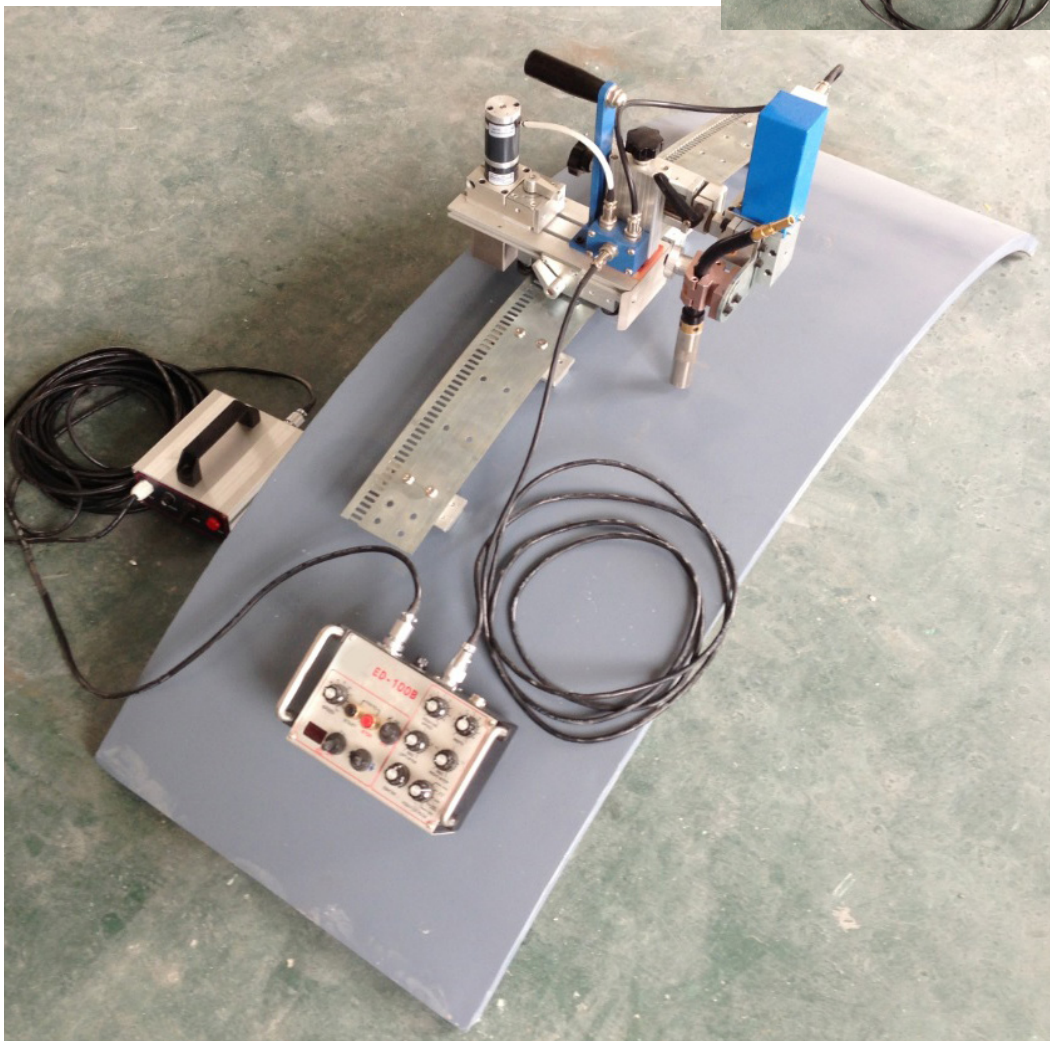
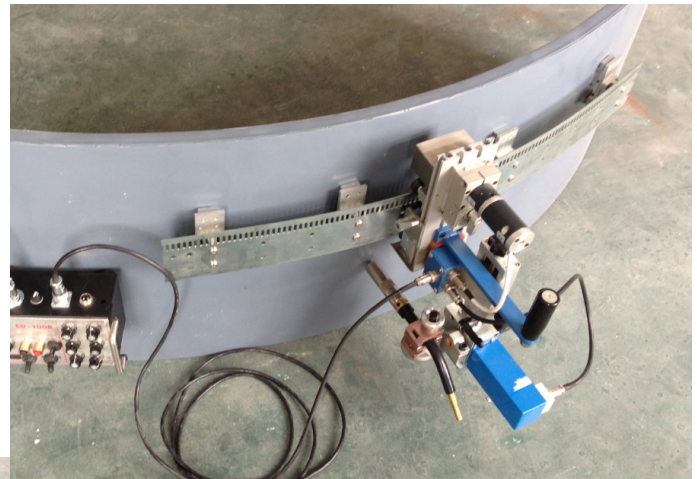
Welding tractors

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/Stopp
	Swing range 8°
	Swing mode selection     NN
	Swing speed 0 to 3,5 u/min
	Center move 3°
	Left stop for 0 to 2 sec.
	Right stop for 0 to 2 sec.
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)
Item no. old	72203130
Item no. new	02.20.01.21050

Scope of delivery:

- 1 Welding tractor
- 1 Transformer

Optional:

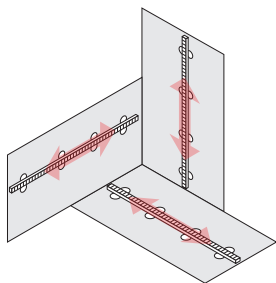
- 1 Rail 1,8 m with permanent magnet
- Item no.: 02.20.02.20040

Welding tractors

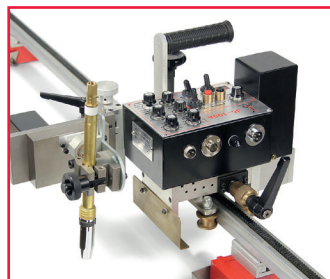
Accessories

Moving in each direction

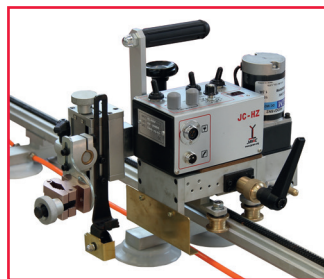
With the rack rail you can move safe and smoothly in any direction. However you take magnet or vakuum attachment your direction and speed will be constant.



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



Compatible to MIG-100 A



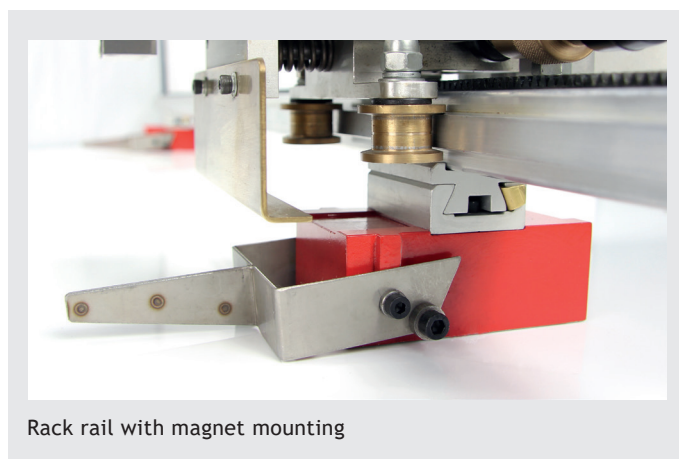
Compatible to MIG-100 HZ



Compatible to MIG-100 2HZ

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

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



Rack rail with magnet mounting

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

Modell	Switch magnet for rail
Item no	72203322



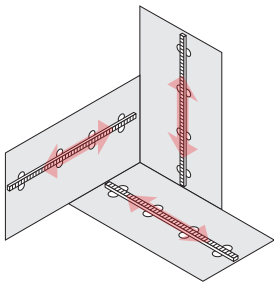
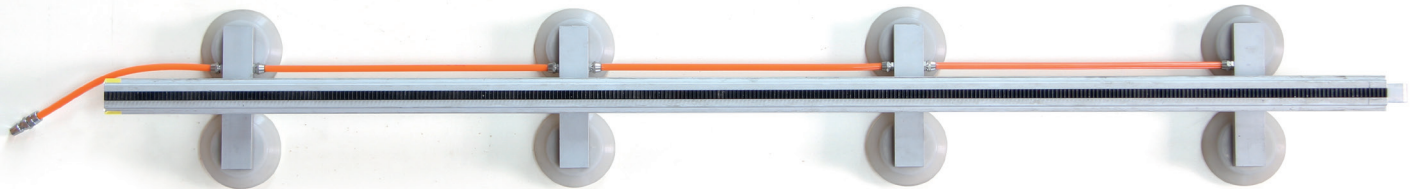
Optional with switch magnet with high holding force and easy ON/OFF mechanical system.

Welding tractors

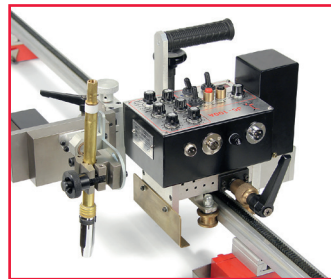
Accessories

Moving in each direction

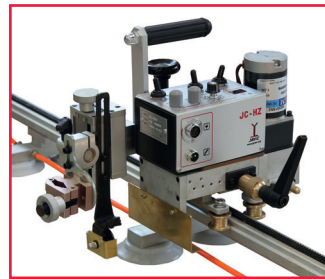
With the rack rail you can move safely and smoothly in any direction. However you take magnet or vakuum attachment, your direction and speed will be constant.



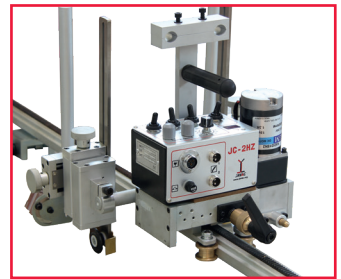
Suitable for all welding machines. Applicable only in a straight line.



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

