

IK-72W

Magnetic Rail Welding Carriage



Light weight welding carriage with magnetic rail system to perform consistent vertical welds.

The KOIKE IK-72W welding equipment is used for straight welding while riding along the 1D Rail affixed with ultra strong magnets in order to perform vertical welds. Made of aluminum alloy, the IK-72W is light weight and easy to use.

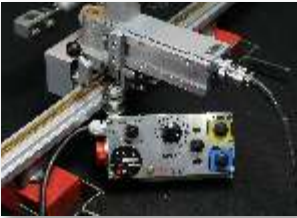
Features & Benefits

- **Remote Pendant**
Allows welder to work in a more ergonomic position
- **Permanent Magnetic Track**
Secures track to plate; allows track to be used vertically
- **1D, 1,500 mm (60 in) Extendable Rail**
Aluminum rail; makes accurate straight cuts; extendable track allows welding of longer parts
- **Clutch Lever**
Releases side rollers to allow quick positioning of machine on rail
- **Innovative Use of Materials for Precision Welding**
Light weight aluminum tubing and permanent magnets allow easy alignment and portability.
- **Rack and Pinion**
Provide steady consistent motion in both vertical and horizontal welds.
- **Multi Weld Processes**
Standard and programmable weaving options
- **Light weight at 4.5 kg (10 lb)**
Makes transport and setup easier



KOIKE ARONSON, INC. / RANSOME

Removable Control Station



Operation Panel shown off of the machine



Operation Panel shown on the machine

SPECIFICATIONS	
IK-72W1	Part# TBPJ6404004
Drive System	Rack and Pinion
Travel Speed	150-1500 (mm/min) (6 - 60 IPM)
Adjustment range of welding gun Angle	Angle 40° ~ 55° Vertical 45 mm (1.7 in) Horizontal 45 mm (1.7 in)
Welding Margin	Start: 125 mm (4.9 in) End: 140 mm (5.5 in)
Welding Positions	Fillet welding, downward welding & vertical welding
Power	AC 115 V/220 V 50/60 Hz Single Phase 1A
Weight	4.5 kg (10 lb)
Carriage Size	350 mm x 250 mm x 230 mm 13.8 in x 9.8 in x 9.0 in

Welding Precision

The KOIKE IK-72W is a light weight welding carriage using the IK-72 magnetic rail system. Setup is minimal with control on all axes. A remote pendant allows for the welder to work in a more ergonomic position. The pendant can then be attached to the carriage to be used as a compact system. The rack and pinion system provides steady consistent motion in both vertical and horizontal welding applications. While developed for the heavy truck trailer and shipbuilding industries, many other welding applications can be automated using the IK-72W. Most welding torches and power supplies are able to be integrated into the system allowing the use of existing equipment.

Studies show that semi-automation reduces production costs and increases the quality of the welding process.



Digital display and push button controls.



Compact oscillator motor with adjustable torch



Efficient unitized design

IK-72W2 Weaving

The IK-72W2 Weaving is primarily used in vertical up butt and fillet welding applications; however it may also be used in other positions where a large gap or bevel needs to be filled. The pendulum action of the weaving unit provides smooth motion that can be controlled with dwell settings at right, left and center positions. Ten memory locations are available to save preset parameters. The system is designed to quickly move from weld to weld and repeat the process efficiently. The signal cable synchronizes the start and stop of the welder with the weaving function. Weaving can achieve a wide weld bead without the need for large torches or heavy wire.

SPECIFICATIONS	
IK-72W2 Weaving	Part# TBPJ6404005
Drive System	Rack and Pinion
Travel Speed	150-1500 (mm/min) (6 - 60 IPM)
Adjustment range of welding gun Angle	Angle 40° ~ 55° Vertical 45 mm (1.7 in) Horizontal 45 mm (1.7 in)
Oscillation Settings	Width 1-25 mm (.04-1.0 in) Frequency 30-125 rpm
Dwell Input	Stop Time (L, C, R) 0.1-9.9 sec. Arc start time 0.1-9.9 sec Crater fill time 0.1-9.9 sec
Welding Margin	Start: 140 mm (5.5 in) End: 140 mm (5.5 in)
Welding Positions	Fillet welding, downward welding & vertical welding
Power	AC 100 V - AC 240 V
Weight	9.8 kg (21.6 lb)