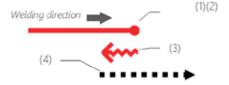


Rail traveling carriage for all position welding

Features and Benefits

- Light weight at 5.5 kg (W) / 7.6 kg (WEAVING)
- Two models:
 - IK-72W: Tack welding
 - IK-72W WEAVING: Tack and weaving welding
- Carriage positioning by limit switch
- **Advanced tack welding functions**
- Digitally controlled weaving and tack welding (Weaving model)
- Shares the same rail system as the cutting machine IK- 72T; making it possible to weld after cut.



The advanced tack controller

Controllable tack welding distance

- Tack and dry-run distance can be controlled during welding just by simple click on a toggle switch.
- Equipped with an encoder motor, the IK-72T calculates the travel distance by counting motor rotations, ensuring accurate distance control.
- All parameter values are shown on the digital display for easier parameter management and repeatability.

Crater filling function (*)

- (*) Requires welding machine with crater function with matching control
- Automatically switches to crater amperage at the end of each weld for crater fill sequence.
- 1) At the end of each weld, the carriage gives a signal to the welding power source to switch to the crater amperage.
- 2) Carriage stops for a set period of time.
- 3) With crater amperage, carriage welds backwards at a set speed for a set distance.
- 4) After the crater sequence, the carriage dry-runs to the starting point of the next tack weld (in tack welding mode).

Welding Machines

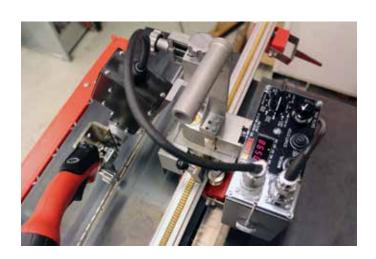


The IK-72W series is used for straight welding in horizontal and vertical positions using 1 dimensional rail and curved and twisted plane welding using 2 and 3 dimensional rails. By using same rail system as the cutting machine IK-72T, cutting and welding can be done with IK-72 system in convenient and lightweight package.

WU-5R Weaving Unit (Option for IK-72W Standard with **IK-72W WEAVING model)**

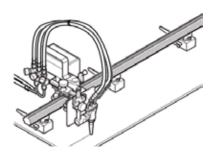
Option for IK-72W to perform weaving welding. Includes mounting bracket. Weaving is controlled by encoder motor.

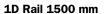
Weaving speed (*) : 400 - 1500 mm/min : 0 - 100 mm/min Weaving widths:(*) Stop timer (left/center/right): 0.0 - 10.0 seconds (*) at radius=100mm from the center of rotation





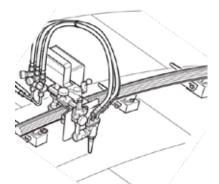
Accessories	Rail selections
Accessory	Stock #
IK-72T 1D-RAIL 1500 MM	TBPJ64025
IK-72T 2D-RAIL 1000 MM	90154
IK-72T 3D-RAIL 1000 MM	TBPJ64026





- For flat plate
- Extendable aluminium made straight
- Ideal for straight welding applications
- 4 pcs. permanent magnets

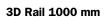




2D Rail 1000 mm

- For bended plane
- Extendable flexible rubber rail with steel plate liner; maximum bending radius 2500 mm
- 5 pcs. permanent magnets
- Upto 30° slope from horizontal position

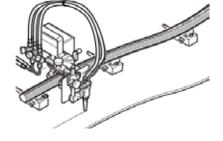




90255

- For bended and twisted planes
- Extendable flexible rubber rail; bends in any directions
- Maximum bending radius 2000 mm
- 5 pcs. permanent magnets
- Upto 30° slope from horizontal position





Weaving unit WU-5R

Optional accessories Stock # **Description Accessory** Rail connector 33107 Parts to connect 1D rail to 2D / 3D rail Transformer PR 100-240V-SEC 24V 65W 222.002.256 Primary 100-240V / Secondary DC 24V

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Specification		IK-72W	IK-72W WEAVING	
Machine weight		5.5 kg	7.6 kg	
Travel speed		20-600 mm/min		
Guiding method		IK-72 rail system		
Driving method		Rack and pinion		
Torch adjustment:	Up / down	45 mm		
	Forward / backward	45 mm		
Torch holder diameter	er	16 ~ 20 mm		
Automatic stop funct	ion	Limit switch on each end of carriage		
Weaving unit WU-5R	eaving unit WU-5R		Included	
Welding method:	Continuous	Yes	Yes	
	Tack / stitch	Yes	Yes	
	Weaving / Oscillation	Optional	Standard	
Power & signal cable		Power and signa	al cable integrated Y-branch cable	
		(Carriage-branch: 6 m, br	ranch-power: 10 m branch-feeder: 0.5 m)	
Torch holder diameter		16-2	20 mm	
Position adjustment by limit switch		`	Yes	
Encoder motor for precise speed control		· ·	Yes	
Digital display		· ·	Yes	
Crater fill function		· ·	Yes	
Input power		DC	C 24V	

Types	
Model	Stock #
IK-72W	90250
IK-72W Weaving	90251

Scope of delivery
Machine body
Power & signal cable
Rail mounting bracket for limit switch (2pcs)
Allen keys (2pcs)
Operation manual