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CATALOGUE

KARA Railway Wheels Cladding Machine





KRWCM



KARA Railway Cladding Machine

Train wheel cladding machine Train wheel welding machines have the following features

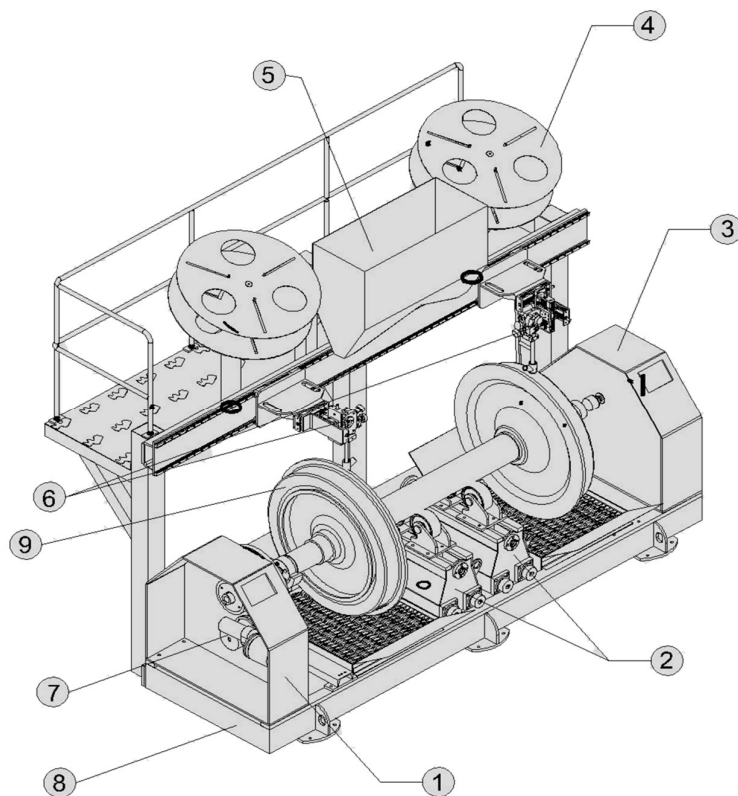
- It has a sub-powder welding system with accurate ampere and voltage control during welding according to the required standard
- It has a wheel rotation speed control system by an inverter
- Has a fixture to hold the wheel on both sides of the axle
- Ability to weld and cover circular parts in addition to train wheels - types of rollers
- It has 2 sets of wheel loaders
- Ability to load up to 3 tons on the machine's turntable • Work and easy operation
- Speed and quality in train wheel welding and repair operations • The ability to adjust the height in three X.Y.Z axes to a course of 100 mm
- Ability to weld all kinds of wheels used in rail industries with different sizes
- It has a welding connection system without contact and damage to the shaft and the surfaces under the bearing
- Has a powder storage tank with a capacity of 150 kg performance In order to speed up the repair and restoration of damaged wheels of trains and other railway industries, Kara company designed and produced a semi-automatic device that can weld and repair damaged wheels as soon as possible.
- Equipped with wheel heating system





Main Technical Specifications

1	Various welding processes	Flux-Core Arc Welding (FCAW)
2	weld patterns	oscillation
3	Capacity(max)	3000 Kg
4	Welding heads	2
5	Control System	HMI Control Panel
6	Powder tank	50kg
7	Wire Feeder Motor	DC - 190W - 24V - 800RPM
8	Welding process controller	KARAC – PEG 1
9	Rotation speed	0.1- 0.5 rpm
10	power source brand	KARA – TCR 1250
11	Core Components	PLC, Bearing, Gearbox, Pressure vessel, Gear



- 1 Drive positioner
- 2 Workpiece roller stand
- 3 Idler positioner
- 4 wire spool
- 5 Powder tank
- 6 Welding Head
- 7 gear box
- 8 Machine chassis
- 9 workpiece
- 10 Guard

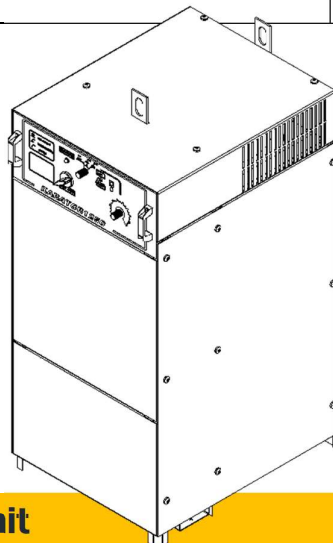
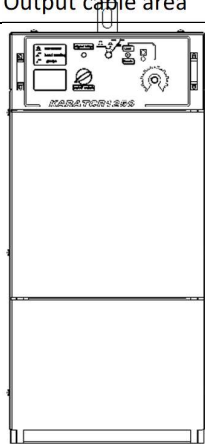


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KARA TCR 1250A Technical Specifications

1	Setting range	250A / 24V – 1250 / 44V
2	Max. load at 100% duty cycle	1250A / 44V
3	Max. output voltage variation for 5% in variation	2%
4	Max. output current at 100% D.C.	106A
5	Open circuit voltage	55V D.C
6	No load power	500W
7	Input power	3Ph/380V/50H
8	Full load Cos ϕ	0.92
9	Full load efficiency	0.86
10	Cooling Type	Air circuit with fan
11	Protection class	IP22
12	Insulation class	H (180°C)
13	Dimension L/W/H	760 / 590 / 1435 mm
14	Weight	490 Kg
15	Fuse (time lag)	125 A
16	Input cable area	4 x 25 mm
17	Output cable area	2 x 95 mm



KARA Suction Unit

1	Power	1.5kw
2	Voltage	380 v 3 ph.
3	Current	2.8 A
4	Vacuum	210 mbar
5	Air flow	180 m3/h
6	Weight	82 kg

