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# CATALOGUE

## KARA GANTRY WELDING MACHINE





# KGWM



## KARA Gantry Welding Machine

1. Possibility of Welding H and Box Sections Inside and Outside of Gantry
2. Using Robust Standard Industrial Profiles in Structures Designing and Manufacturing
3. Using Two Synchronized Gearbox in Longitudinal Travel at the Two Sides of Gantry to Avoid Constant Travel of Welding and rotation Box Due to Errors Resulting from Work-Piece Contact with the Rails
4. Equipped with 2 Flux Tanks (150 Lit.) and changing into 2 Tanks (30Lit.) along with a Control Valve for Manual Charging of Welding Path
5. Using a Step-Motor in Transverse and Height Travel of Welding Booms for a Precise PLC Controlled Motion
6. Equipped with Two Welding Power KARA TCR 1250A
7. Equipped with Two Motorized Suctions for Collecting Welding Powder and Transferring to KARA Automatic Suction Powder Tanks
8. Equipped with Adjacent Sensors for Directing and Maintaining Welding Path for an Automatic PLC Controlled Motion
9. Equipped with a Laser Type Index
10. Using a Wire Straightener Set
11. Control Panels with Welding Booms
12. Equipped with four Sliding Contactor for Negative Contact under Spring-applied System.





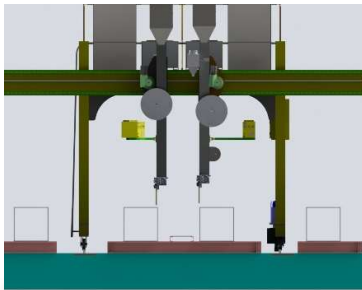
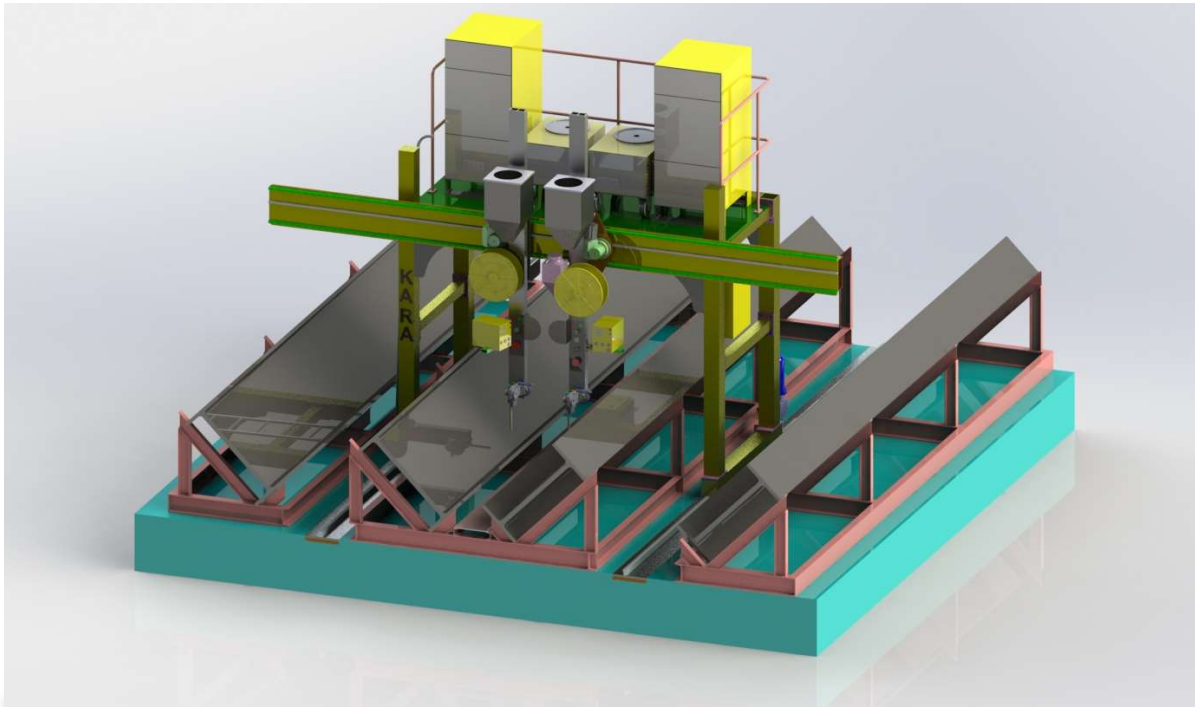
# KGWM



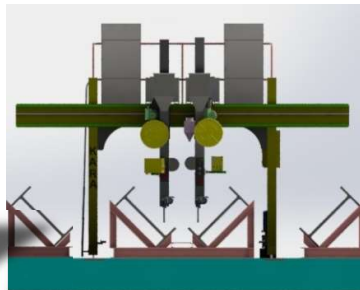
## Main Technical Specifications

1	H-Beam's welding area	Min: 200 mm – Max: 1500 mm - inside & outside
2	Box welding area	Min: 350 mm – Max: 1500 mm - inside & outside
3	H-Beam & Box Length	Up to 12000 mm
4	Machine's Linear movement speed	250 ~ 1800 mm/min
5	Machine's control system	PLC - Fatek
6	Machine's linear movement system	Motor & Gearbox + rack pinion for 2 sides
7	Panel's degree of protection	IP 52
8	Machine's Electric Power Consumption	Nominal Current @ Max. loud: 380v – 50Hz 3ph – 220A
9	Welding nozzles guidance system	2 Automatic Proximity sensor for each side
10	Welding's power supply	KARA TCR 1250 A - 2 Set
11	Welding powder suction system	KARA Suction, 2 Set
12	Welding powder tank capacity	50 liters for each head
13	Capacity of welding wire pulleys	35 Kg for Each Head
14	Power of welding wires	Wire 2.4 mm ~ 5 mm
15	Overall Machine's Dimension (mm)	W: 5000 mm, H: 3750 mm, L :1600 mm
16	Overall Machine's Weight (kg)	2800

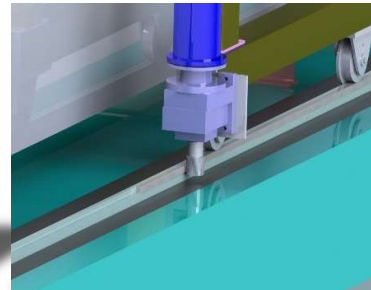




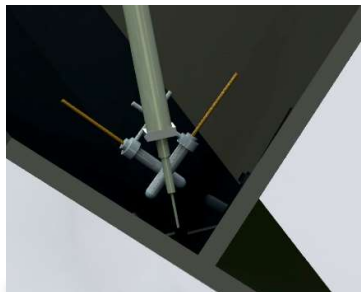
**FIGURE NO.2 A**



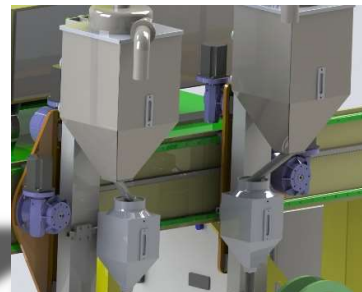
**FIGURE NO.2 B**



**FIGURE NO.6**



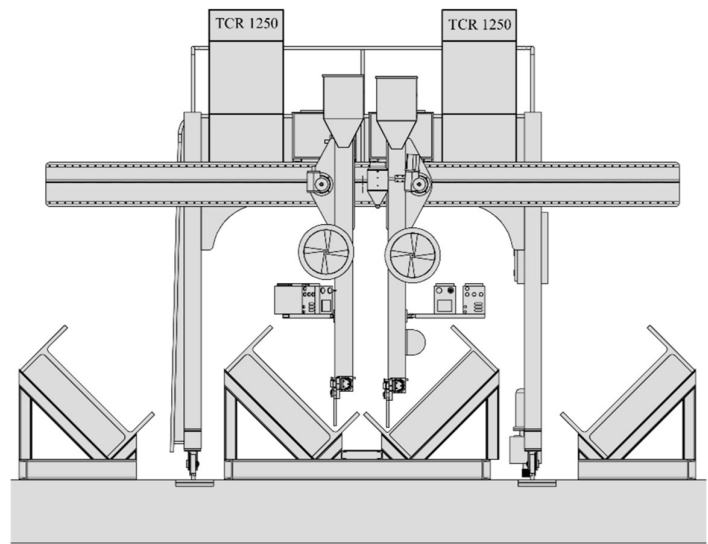
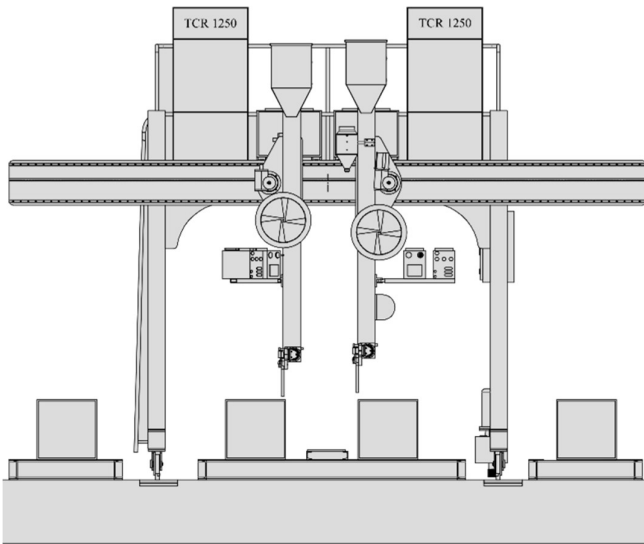
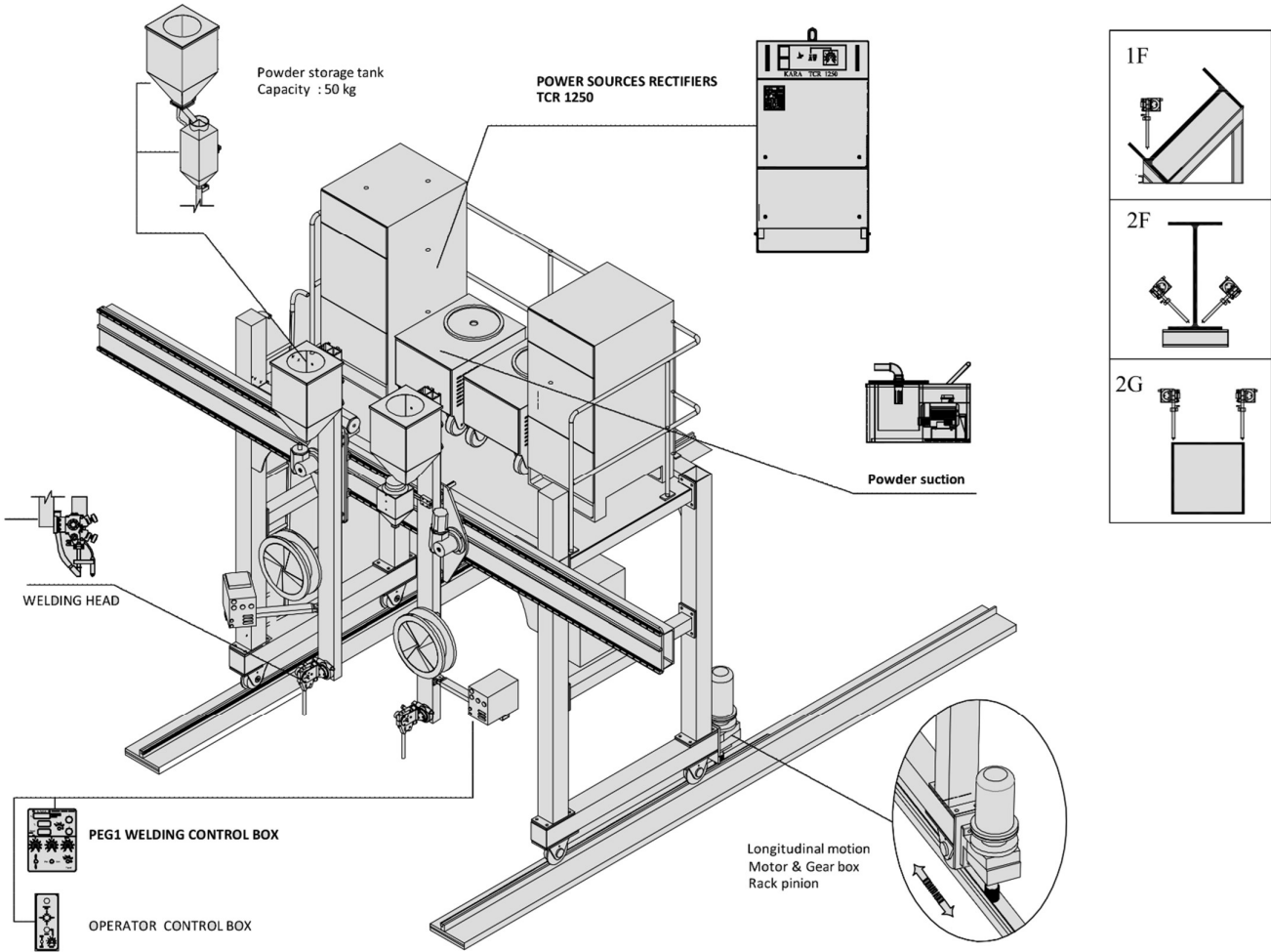
**FIGURE NO.9**



**FIGURE NO.11**



# KGWM



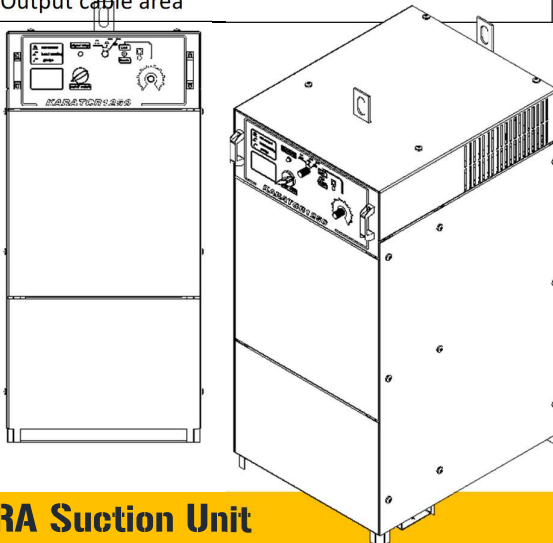


# KGWM



## 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 $\phi$	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	





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## KARA Quality Certificates



## Contact US



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