

WM 威猛股份



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**Self-walking full-scene
large-piece welding robot**

Intelligent Welding System

**Explore the future
seek truth from facts
and move forward firmly**

Let Robots Truly Move, Let Business Owners Truly Use Them



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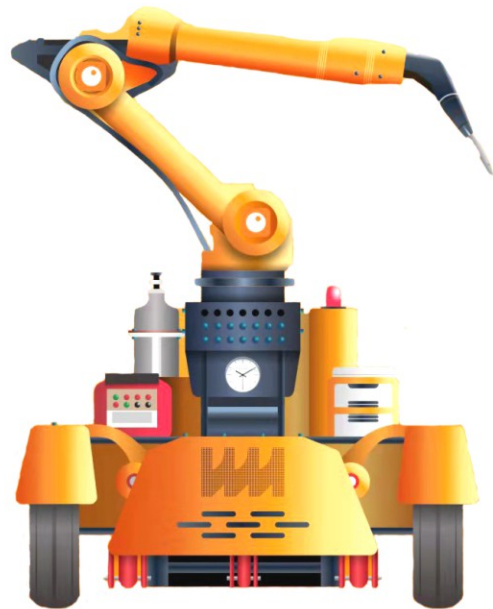
05 Product Information

	
Name	Self-propelled full-scene large-scale welding robot (Xiaomeng a harrier)
Model	WMM-10iD/8LHH500
Net weight	1780KG
Dimensions	2830*1605*1550mm
Minimum turning radius	4800mm
Battery parameters	48v, 70Ah
Number of batteries	1
Maximum driving safety speed	10Km/h
Cruising range	15-20Km(Winter)/20-30Km(Summer)
Horizontal weld width	LT650-H3850mm
Vertical welding height	LT915-V3725mm
System power	26.8KW
Repeatability accuracy	±0.03mm
Welding method	Argon (80%) +Carbon dioxide (20%) or carbon dioxide
Welding posture	Horizontal welding, flat welding, vertical welding, Overhead Welding
Wire specifications	Diameter φ0.8mmφ1.6mm-welding wire
The robot itself	FANUC M-10iD/8L

05 Product Information

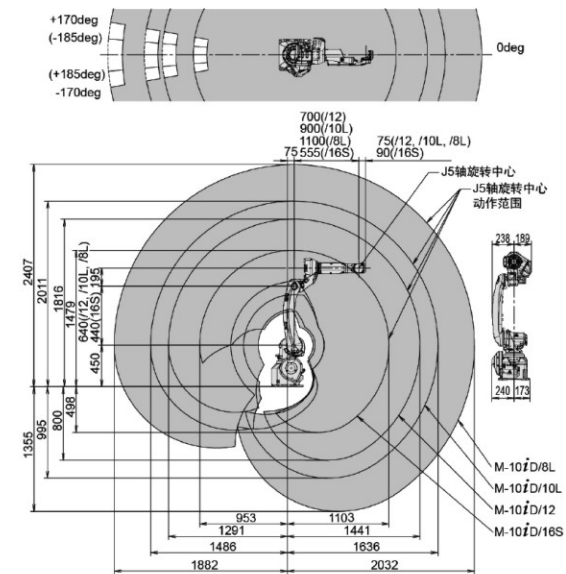
	
Name	Self-propelled full-scene large-scale welding robot (Xiaomeng a leopard)
Model	WMM-10iD/8LHF500
Net weight	1270KG
Dimensions	2054*1385*1652mm
Minimum turning radius	1100mm
Battery parameters	48v, 140Ah
Number of batteries	1
Maximum driving safety speed	3Km/h
Cruising range	19Km
Horizontal weld width	LT650-H4012mm
Vertical welding height	LT915-V3270mm
System power	26.8KW
Repeatability accuracy	±0.03mm
Welding method	Argon (80%) +Carbon dioxide (20%) or carbon dioxide
Welding posture	Horizontal welding, flat welding, vertical welding, Overhead Welding
Wire specifications	Diameter φ0.8mmφ1.6mm-welding wire
The robot itself	FANUC M-10iD/8L

12 Arc Welding Function of Xiaomeng H



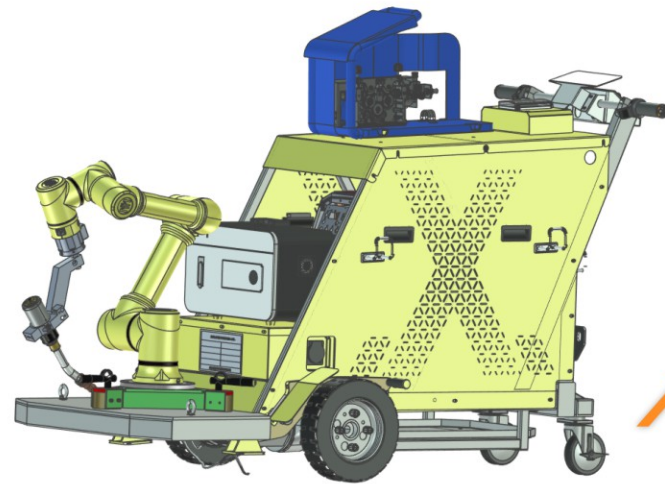
function	introduce
Contact Positioning	It can automatically find out the offset between the actual position of the workpiece and the teaching position through the touch of the workpiece's memory contact sensor, and compensate for this offset in the subsequent actual welding process.
Arc tracing	During the swing process, the weld seam is tracked according to the current change.
Multi-layered and multi-channel	It only needs to teach the basic path once, and the stacking times and stacking rules of the welding path are designed through instructions to meet the welding needs.
Collision detection	In case of accidents or operation errors, emergency avoidance to avoid equipment damage to the greatest extent.
Pendulum welding function	Support sinusoidal, arc, figure-8 swing welding, you can choose the period or length to set the swing reference.
Intermittent soldering function	It supports high-speed intermittent welding function for fish scale welding.
Dry run function	After completing the trajectory teaching, it can enter the dry running function, at this time, the robot does not start the arc, but only runs the robot trajectory, which is convenient for quickly detecting the correctness of the trajectory.

13 Ontology Parameters of Xiaomeng H

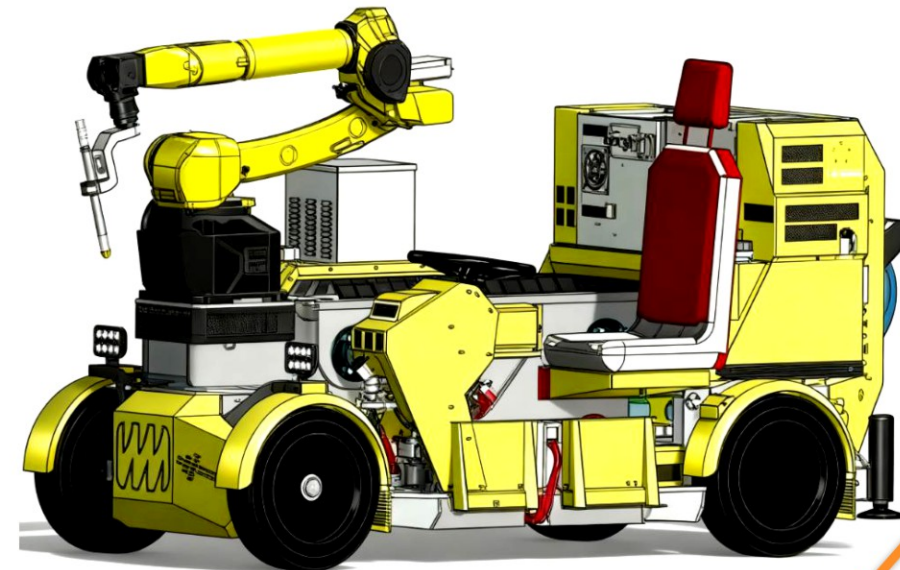


Project			Performance characteristics
name			FANUCM-10ID/8L
construct			Vertical Multi-Joint
Number of Axes			6
Wrist handleable mass			8Kg
Position repeatability			±0.03mm
Achievable radius			2032mm
Installation Method			Ground、overhead suspension、inclined angle
The weight of the robot			180Kg
Action Scope	Basic Axis	J1 Axis (Rotation)	340°/370°(Options)
		J2 Axis (Front and Rear)	235°
		J3 Axis (Vertical and Horizontal)	455°
	Axial Arm	J4 Axis (Rotation)	380°
		J5 Axis (Swing)	360°
		J6 Axis (Torsion)	900°
Maximum Speed	Basic Axis	J1 Axis (Rotation)	5.93 rad/s 6.4 rad/s(Options)
		J2 Axis (Front and Rear)	4.10 rad/s
		J3 Axis (Vertical and Horizontal)	7.94 rad/s
	Axial Arm	J4 Axis (Rotation)	6.63 rad/s
		J5 Axis (Swing)	6.28 rad/s
		J6 Axis (Torsion)	15.71 rad/s
Load Capacity	Allowed Torque	J4 Axis (Rotation)	16.1 N·m
		J5 Axis (Swing)	16.1 N·m
		J6 Axis (Torsion)	5.9 N·m
	Allowed moment of inertia	J4 Axis (Rotation)	0.63 kg·m2
		J5 Axis (Swing)	0.63 kg·m2
		J6 Axis (Torsion)	0.061 kg·m2

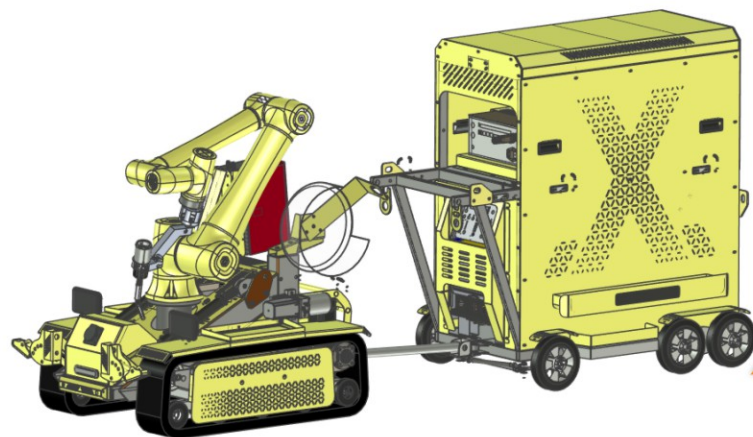
14 Xiaomeng Series Products



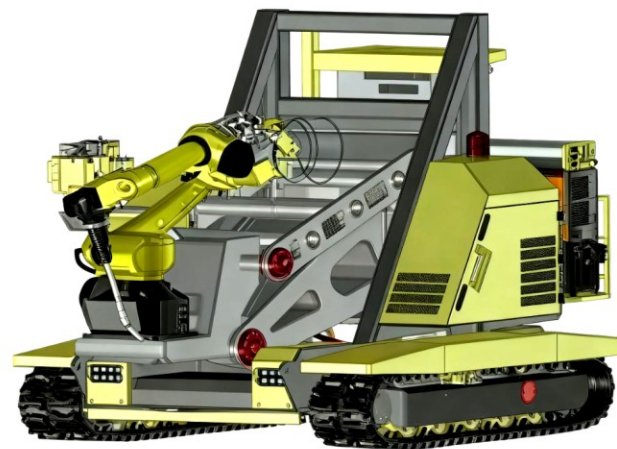
Self-propelled Full-scenario
Small-area Welding Robot
Xiaomeng-X



Self-propelled Full-scenario
Plasma Cutting Robot
Xiaomeng Q-Wolf



Self-propelled Full-scenario
Small-area Welding Robot
Xiaomeng-xPro



Self-propelled Full-scenario
Large-component Welding Robot
Xiaomeng-Tiger I



Self-propelled Full-scenario
Flame Cutting Robot
Xiaomeng Q-fox

15 Demonstration of Practical Cases

Transformer Industry



Self-propelled Full-scenario
Submerged Arc Welding Robot
Xiaomeng H-MAI

Shipbuilding Industry



Self-propelled Full-scenario
Spider Wall-climbing Robot

Steel Structure Industry

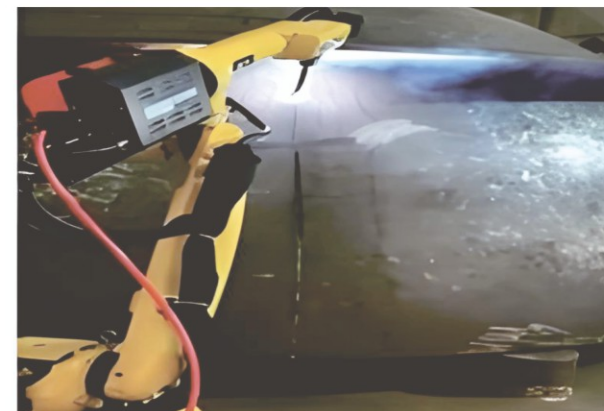


VR Coating Robot
Xiaomeng-T

Container Energy Storage Cabinet Industry



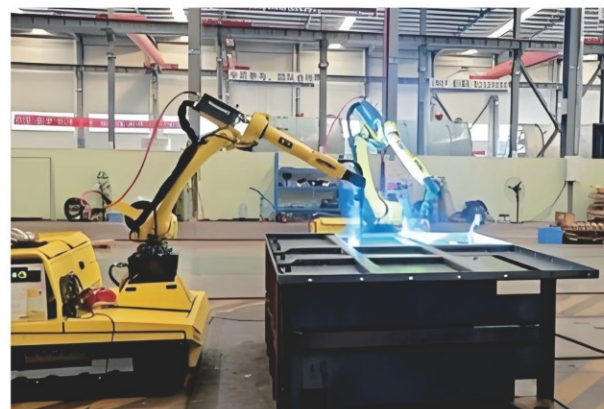
Pressure Vessel Industry



Transportation Industry



Dual-Machine Collaboration



Steam Turbine Industry



Petrochemical Industry



Outdoor Welding



Steel structure industry



Industrial Furnace Industry



Environmental Protection Equipment



16 Cooperating Enterprises

