

Civil Defense Door Installation Robots





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The civil defense door installation robot is a new type of equipment creatively developed by the Beijing Institute of Construction Mechanization Co. Ltd. for civil defense facilities. With a compact size, heavy-load capacity, and multiple-degree-of-freedom adjustable manipulators, it can grasp, carry, and mount reinforced concrete civil defense doors in sizes ranging from 1,020mm to 1,520mm, greatly reducing workers' labor, raising operating efficiency, and mitigating safety risks.



Strengths in operation

- Achieve easy operation, need less labor, and mitigate safety risks during operation;
- ◆ Thanks to its compact size, able to carry a civil defense door to pass through door openings and tunnels until reaching the installation position;
- Manoeuvrable enough to handle a civil defense door and adjust its position until reaching the desired position;
- Infinitely variable and adjustable speed setting for moving and operating, stable movements, and high maneuverability.

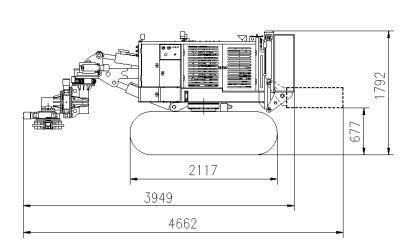


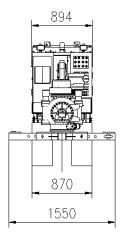
Technical highlights

- Its wireless remote control mode not only allows the operator to observe its operation at convenient positions but also secures safe operations;
- ◆ Its load-sensitive hydraulic control mechanism presents good fretting behavior, enabling accurate, six-degree-of-freedom adjustment of the positions of a civil defense door in a more energy-saving, eco-friendly way;
- Its hydraulic track drive makes it excellently applicable to the ground of the construction site;
- Fuel, electricity and other power driving options are available.

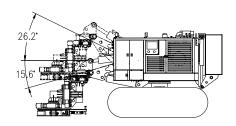


Overall dimensions

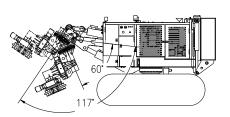




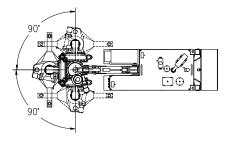
Action range



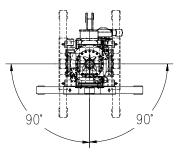
Angle range of large arm actions:-15.6° $^{\sim}26.2^{\circ}$



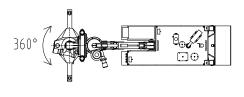
Side-to-side swing angle range: $\pm 90^\circ$



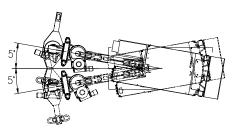
Side-to-side swing angle range: $\pm 90^\circ$



Side-to-side flip angle range:±90°



Rotational angle range of hanging rack of civil defense door: 360°



Swing angle range of upper platform: $\pm 5^{\circ}$

Technical parameters

Item		RQ15D Hybrid Electric Model	RQ15 Fuel Powered Model
Track chassis	Chassis width	870mm	
	Contour length	2117mm	
	Wheel tread	1520mm	
	Width of rubber track	300mm	
	Running speed	Low speed mode: Max 0.9km/h	
		High speed mode: Max 2.4km/h	
	Average ground pressure	70kPa(Maximum load)	

Item	RQ15D Hybrid Electric Model	RQ15 Fuel Powered Model	
Transport dimensions	Main unit	3932×894×1782mm	
$(length \times width \times height)$	Cable trolley	2335×1066×1172mm	_
Sizes of civil defense doors that can be carried and installed		1020~1520	
Maximum load		1500kg	
Max ramp gradient		20°	
Maximum load		1500kg	
Main unit weight (civil defense door excluded)		5050kg	
	Maximum working power	20kW	
Engine	Maximum allowable rotating speed	2500r/min	
	Rated voltage	380V	_
Motor	Rated power	18.5kW	_
	Rated rotating speed	1470r/min	_







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注:产品更新,相关技术参数恕不另告。

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