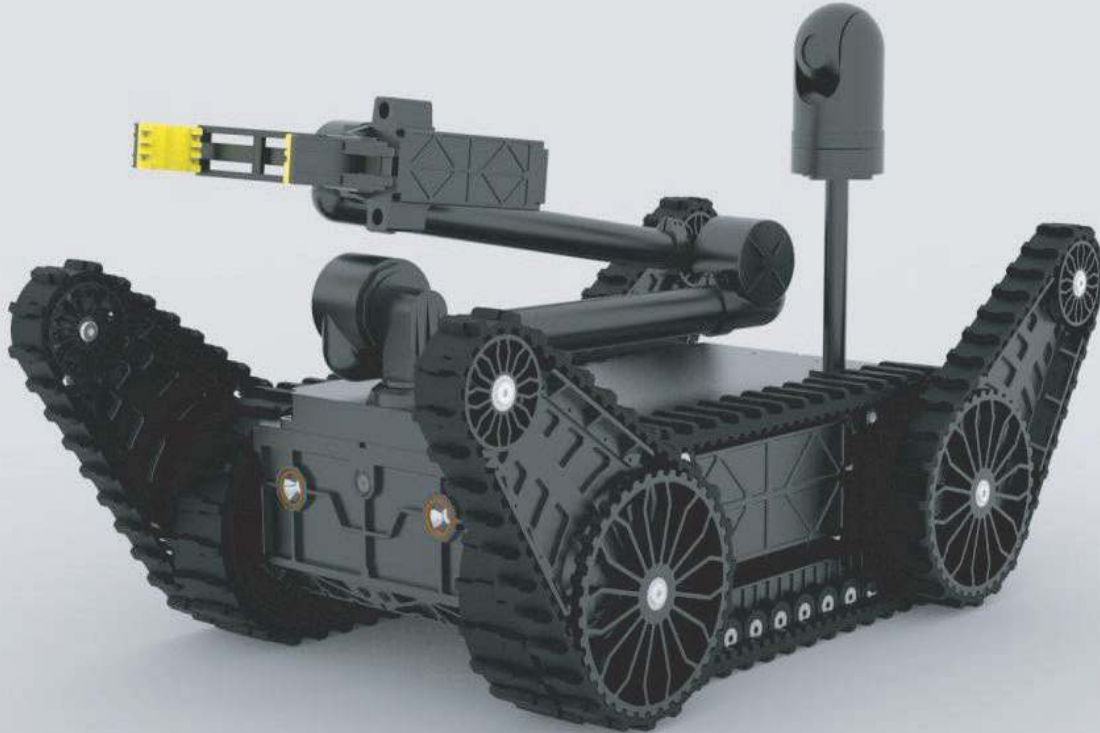




JJPB Swing Arm Tracked Robot

The JJPB Swing Arm Tracked Robot is a professional EOD (Explosive Ordnance Disposal) platform designed to keep personnel safe during high-risk operations. Its primary function is to remotely approach, inspect, and handle suspicious or dangerous items, reducing the need for human exposure in hazardous environments.

Equipped with a high-precision multi-joint robotic arm and a mechanical claw with force feedback, the robot allows operators to grip, lift, move, and manipulate explosive devices or unknown objects with control and accuracy. Onboard HD cameras—positioned at key angles—provide clear, real-time visuals to support detailed remote inspections.

The compact and robust chassis ensures stable movement over uneven surfaces and allows access to confined spaces. Operation is handled via a wireless remote controller with an integrated screen, enabling safe and intuitive control from up to 300 meters away.

Ideal for EOD missions, hazardous material response, security screening, and critical infrastructure protection, the JJPB robot is a reliable, flexible solution for dangerous fieldwork.

Model	JJPB-04	JJPB-05
Main Dimensions		
Robot Dimensions	680mm*520mm*550mm (L*W*H) (with swing arms fully retracted) 1000mm*520mm*550mm (L*W*H) (with front and rear swing arms fully extended)	800mm*600mm*550mm (L*W*H) (with swing arms fully retracted) 1300mm*600mm*550mm (L*W*H) (with front and rear swing arms fully extended)
Remote Controller Dimensions	410mm*330mm*230mm (L*W*H)	410mm*330mm*230mm (L*W*H)
Length of the Robotic Arm	1300mm (fully extended)	1400mm (fully extended)
Weight of the Robot Body	≤60kg	≤80kg
Weight of the Remote Controller	≤12kg	≤12kg
Track Chasis		
Walking Speed	≥ 1m/s (Stepless Speed Regulation)	≥ 1m/s (Stepless Speed Regulation)
Vertical Obstacle Crossing Height (Flat Ground)	200mm	240mm
Ditch Crossing Width	300mm	400mm
Gradient Climbing Ability	≥30° (slope)	≥30° (slope)
Turning Radius	Rotation in Place	Rotation in Place
Load Capacity	≥20kg	≥50kg
Working Power Supply	24 (V)	24 (V)
Charging Voltage	AC220V	AC220V
Working Duration	2 hours (under normal working conditions)	2 hours (under normal working conditions)
Charging Duration	Approximately 4 hours (Intelligent Balanced Charging)	Approximately 6 hours (Intelligent Balanced Charging)
Battery Type	24V Lithium Battery	24V Lithium Battery
Battery Capacity	20AH	22AH
Protection Level	IP65	IP65
Robotic Arm		
Number of DOF (Number of Joints)	5	5
Rotation Range of Joint Angles	J1 Axis: +90°to -90° J2 Axis: +90°to -90° J3 Axis: +80°to -90° J4 Axis: +90°to -90° J5 Axis: +90°to -90°	J1 Axis: +90°to -90° J2 Axis: +90°to -90° J3 Axis: +80°to -90° J4 Axis: +90°to -90° J5 Axis: +90°to -90°
Joint Rotation Speed	Approximately 2.5°/s	Approximately 5°/s
Brake Type	Electromagnetic Brake (J2 Axis, J3 Axis)	Electromagnetic Brake (J2 Axis, J3 Axis)
Opening and Closing Size of the Claw	0 to 120mm	0 to 120mm
Force Feedback	Current Control	Current Control
Claw Type	Standard Mechanical Claw (Balanced Type)	Standard Mechanical Claw (Balanced Type)
Lifting Force	5kg (Can be equipped with 10kg)	10kg (Can be equipped with 20kg)
Monitoring System		
Number of Cameras	4 channels (four-channel images of the front driving view, rear driving view, PTZ, and robotic claw)	4 channels (four-channel images of the front driving view, rear driving view, PTZ, and robotic claw)
Front and Rear Driving Cameras	High-definition cameras (1080P)	High-definition cameras (1080P)
PTZ	High-definition camera (1080P) 2 DOF Pitch rotation angle: ±90° Horizontal rotation angle: ±120°	High-definition camera (1080P) 2 DOF Pitch rotation angle: ±90° Horizontal rotation angle: ±120°
Robotic Claw Camera	High-definition camera (1080P)	High-definition camera (1080P)
Driving Lighting	LED lighting lamps	LED lighting lamps
Remote Controller Performance		
Monitor Specification	15.6 inches, 1080p (IPS high-brightness liquid crystal screen with wide viewing angle, clear display outdoors)	15.6 inches, 1080p (IPS high-brightness liquid crystal screen with wide viewing angle, clear display outdoors)
Video Display	Four channels (any one channel can be displayed independently)	Four channels (any one channel can be displayed independently)
Control Mode	Wireless, 300m (visible distance)	Wireless, 300m (visible distance)

