

SMOKE AND FIRE EXTINGUISHING ROBOT (MY80D-3)

Technical Specifications



2024-V2.0

1. Main technical parameters

Item	Parameter
Straight speed	$\geq 2\text{m/s}$
Whole machine weight	$\geq 4600\text{Kg}$
Dimensional parameters (length x width x height)	3190×1905×2245mm
Engine power	Diesel engine, 74.9Kw
Wireless remote control distance	300m
Track model	320*84
obstacle surmounting ability	Vertical obstacle crossing 200mm Horizontal obstacle crossing 800mm
cornering ability	360 degree stationary turn
Drag ability of water hose	Double line DN80 water filling hose 100 meters
Obstacle clearing device thrust	$\geq 30\text{KN}$
Ground clearance	180mm
Roll stability angle	30°
Lifting height of fire monitor and air duct	3100mm
Gradeability	40%
Linear deviation	$\leq 3\%$

2. High power smoke exhaust and fire monitor injection system

	project	parameter	notes
Smoke exhaust device	Exhaust air volume	$\geq 78000\text{m}^3/\text{h}$	
	Upward tilt angle	15°	
	Downward angle	46°	
	Diameter of air outlet	710mm	
	Number of fan blades	Six pieces	
fire monitor device	Spray position and method of cannon head	The water cannon head is located at the center of the smoke exhaust duct, The water jet is continuously adjustable,	
	Specification and quantity of water delivery joint	DN80, 4 of them	Specification and quantity of water delivery joint
	Fine water mist flow rate	$\geq 13\text{L/s}$	At 1.0Mpa
	Range of fine water mist	$\geq 30\text{m}$	
	Fire monitor flow	$\geq 80\text{L/S}$ (water), $\geq 80\text{L/S}$ (foam)	
	Range of fire monitor	$\geq 85\text{m}$ (water), $\geq 80\text{m}$ (foam)	
OTHERS	Range of pitch injection angle (degrees)	$-15 \sim +46^\circ$	

3. Electrical system

	project	Parameters/Features	notes
Information Investigation System	Fire scene image reconnaissance device	Equipped with visible light and infrared thermal imaging functions, the exhaust duct is equipped with at least one camera, and the rear of the whole machine is equipped with two reverse rearview cameras. The camera can provide clear images in front of the entire machine and has image stabilization function; It has the function of real-time image transmission, and the data transmission method is wireless transmission, which can be displayed on the LCD screen of the operation terminal.	
	Toxic gas detector	Multi concentration gas detection can effectively detect various toxic and flammable gases such as carbon monoxide and hydrogen sulfide	
other	remote controller	Control all actions of the whole machine (including starting, flameout, forward, backward, left turning, right turning, fire monitor DC, fire monitor blooming, spraying, etc.).	
	Control the monitor	Display important information such as engine speed, fuel level, toxic gases, oil pressure alarm indicators, battery level, and alarm indicators.	

	Police light alarm system	Equipped with alarm devices such as lights and sirens	
	Sprinkler	Equipped with spray self-protection function	
	Work lighting	The front end of the equipment is equipped with two front lights of no less than 15W, and the rear end of the equipment is equipped with two rear auxiliary lights and red and blue flashing lights for warning, which can be automatically turned on at low illumination to meet the needs of Operation at night.	
	Emergency stop device	After pressing the emergency stop button, the fire robot stops all movements.	
	Safety protection device	Equipped with emergency stop protection device. After the boom is lifted, it has the mechanical locking protection function of boom and the automatic lowering function of boom;	

4. Documents

No.	name	quantity
1	operation instructions	1 copy
2	List of accompanying tools	1 copy
3	List of on-board spare parts and accessories	1 copy
4	Product Qualification Certificate	1 copy
5	packing list	1 copy