

DALIAN EAGLE SKY INDUSTRIES CO., LTD.



FIREFIGHTING TANK BRIEF INTRODUCTION



Dalian Eagle Sky Industries Co., Ltd.

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1. Anti-explosion

The hull is main battle tank in army. It is made of special armor steel plate. Its weight is 32 tons. It provides inside fuel tank, and the hatch is anti-explosion glass with 25mm in thickness, switch-type protective steel plate in outside, therefore it could be effectively prevented that explosion, strike and crush hurt fire fighter and vehicle itself.



Switch-type protective steel plate

2. Anti-fire and heat-isolation

It has rubber shoes of resistance high temperature; the defaults in fear of fire and high temperature of automobile tyres are avoided. It ensures that vehicle can drive in city roadways everywhere without damaging them. It is anti-fire coating outside armor plate and heat-isolation inside the vehicle. There are auto shower for temperature falling system on nose, top plate and track, so heat radiation is stopped effectively. With the features mentioned above, fire-fighting tank can pass through firing area; look for best suitable plate, and near distance fire fighting can be done.





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3. Clear barrier and build a saving way

The vehicle has tank special engine of 520 HP, 5-shifts gearbox with 50km/h in max speed. Hydraulic barrier clearing spade in front, striking and bucketing any barrier is more than 15T. It can turnover barrier 0.5m in height, across channel in 2m width, climb slot of 28° in max. Under the complex condition position where other vehicle couldn't reach, the vehicle can reach fire poison easily, so it can build a way for other vehicle.



4. Electric controlled monitor with water and foam purposes

With the auto-monitor of electric DC wire controlled and powerful pump KSP1000, it has 50L/S outlet, mixed liquid 48L/S, max range: water ≥ 65 m, float ≥ 60 m. Fire fighter can adjust any water outlet angle by control button max upper and lower angle range from -36° to $+90^\circ$; Horizontal rotary angle form 0° to 180° . Fire fighter can operate any fire operation inside vehicle to avoid man hurting for second time explosion or building damages.





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5. Detecting poisonous

Detecting instrument of fire able and poisonous gas AG107 is installed in the vehicle, which is produced by US Big Power Company. It can detect 16 kinds of fire able and poisonous gas. When the concentration is more than 10% LEL, every man inside the hull is with air breathing apparatus of 6.8-liter with vehicle, so it effectively prevent harmful and poisonous gas to harm crew.



6. Detecting temperature

With temperature detecting instrument of digital display LU-901, it can detect circumstance in the range from -200° to $+900^{\circ}$. One side, the apparatus can help commander analyze and estimate fire condition correctly, to adjust fire fighting method; on the other side, shower system will be auto open to fall down temperature for the vehicle, when circumstance temperature is over the value set by detecting temperature.



Temperature detecting instrument of digital display

7. Communication

Equipped with tarynx sound and loud speaker system of 25W in army, powerful anti-interference ability, it can be used together with breathing apparatus. Within the range of 3 Km, commander can talk with crew, to improve mobile, flexibility abilities and raise fire-fighting effectively.





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8. Illumination to fire area

To choose anti-water, DC electrical controlled illumination lamp 2×24V, 200W, crew can operate any illumination angle by button inside vehicle, effective distance more than 200m. In the circumstance that illumination vehicle can't reach, it can displace illumination vehicle, to improve fire fighting or saving efficiency greatly.



9. Anti-terror and anti-rebellion (additional choice)

Added an additional monitor to choose, the additional monitor can be electric switched for spraying or one way injection. Beside matching main monitor fire-off the fire in front vehicle, flowing fire on the ground, it also spray watering liquid in order to resolute and dilute poisonous material, or disperse by using strong water column, or spray dyeing liquid, to help police-catch.



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10. Many ways in taking water

Water can be supplied in safety distance of 100m by followed fire water vehicle, or sucking water from special towing and moveable reservoir, or directly sucking for injection from ground pond or water tank. Fire fighter can choose any way according to different condition.





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The main parameters

	Item	unit	parameter
Overall dimension	length	Mm	7950
	width	Mm	3430
	height	mm	2640
Weight	curb weight	kg	32000
	Overall weight	kg	36000
Driving parameter	ground clearance (mm)	mm	425
	Proximal angle	°	23
	Off angle	°	27
	Min swerve radius	m	3.5
	Max speed	Km/h	48-50
Passing parameter	Max creeping slope (%)	°	28
	Max across channel width	m	2
	Clearing spade's Pushing and shoveling weight	kg	≥15000
Electric controlled water & foam monitor	Type		American big power 3578/3626 double-used monitor
	Voltage	V	24
	Rating spraying pressure	Mpa	1.0
	Pitching angle	°	-36~+90
	Horizontal rotation angle	°	90 each side
	Water flow rate	L/s	50
	Water shot range	m	≥65
	Mixed liquid quantity	L/s	48
	Foam shot range	m	≥6 0
	Mixed ratio	%	6 ~ 7
	Foam multiple		> 5
25% drain time	min	≥2.5	
Additional monitor	Water flow rate	L/s	10
	Water shot range	m	30
	Mixed liquid quantity	L/s	9
Water pump	type		American KSP1000
	Working pressure	Mpa	1.0
	Flow rate	L/s	65
	Suction depth	m	≥1.4
Other parameters	crewmn	person	2
	Tank capacity	L	1800
	Foam tank	L	2100
	Suction connection dia.	mm	135