



reddot design award



GOLD AWARD

Version 2023-06

Intelligent Auxiliary Transportation System

Start with safety and specialize in transporting
(Patented products since 2017)



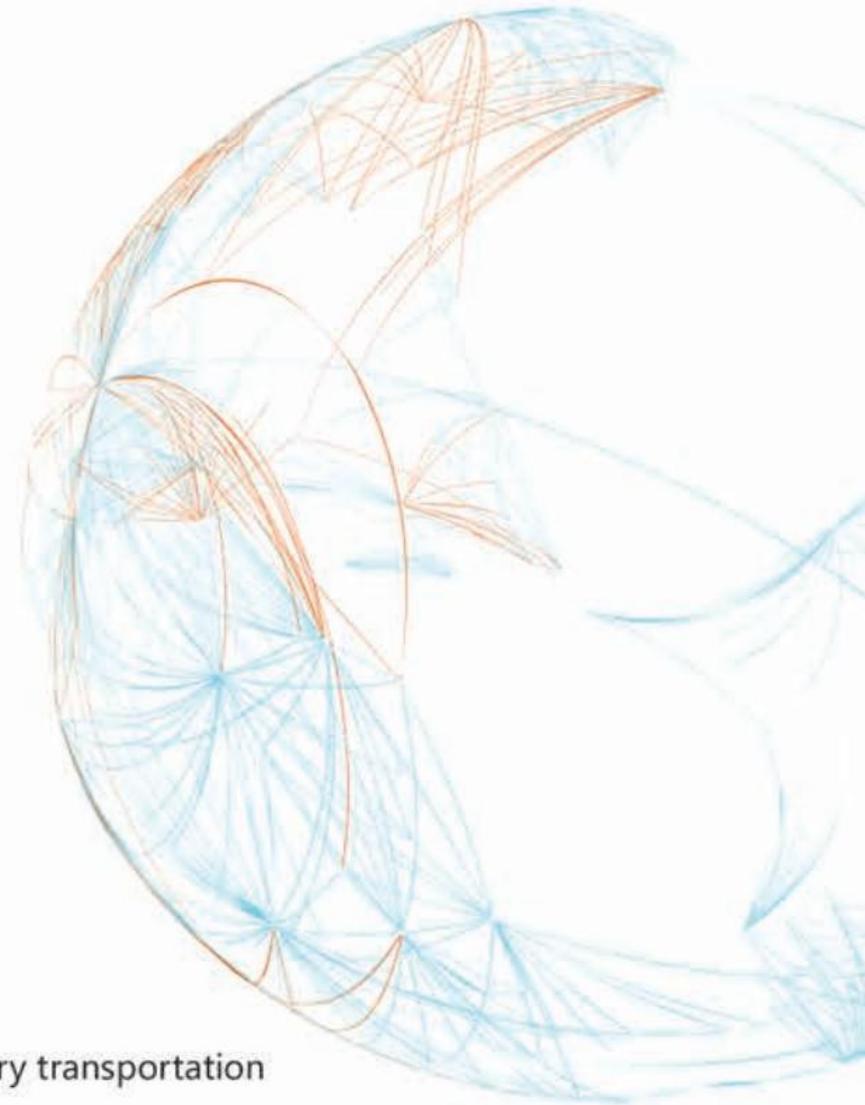
Contents

Explosion-proof mining tracked transporter - with 1T lifting arm

Explosion-proof mining tracked transporter - with 3T lifting arm

Remote-controlled explosion-proof multifunctional modularized
transportation system

Install 5G controlling package for unmanned auxiliary transportation



Explosion-proof mining tracked transporter - with 1T lifting arm

For the last mile in narrow space

Integration of loading and transportation

Tracked auxiliary transporter



Patented product, no infringement allowed

Compact

Highly effective

Safe

Intelligent



Patented product, no infringement allowed



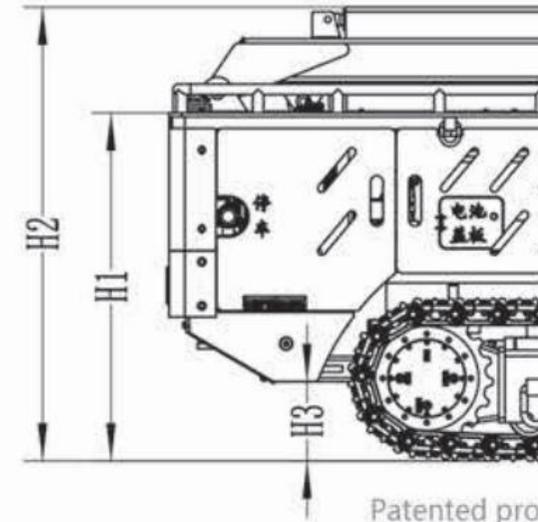
Patented product, no infringement allowed

(Unmanned auxiliary transporting realizable after up-grading)

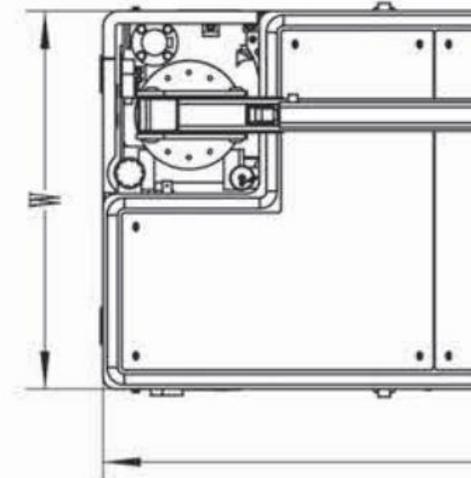
- Material handling in narrow mine roadways and on mining faces
- Containerized transportation for materials
- Last-mile transportation for small and medium sized materials
- Remote-control system
- Integration of loading and transporting materials
- Machined loading and unloading system with optional accessories
- Highly mechanized and electrified system allows one-person operation
- Controllable and safe during the whole transporting process
- Highly intelligent
- Mechanized Unmanned Electrified Intelligent
- The complete equipment system solution

Basic parameters

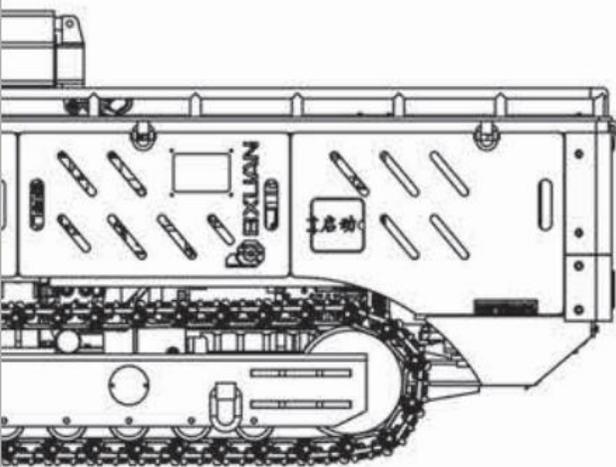
- Ground clearance : 200mm
- Emergency braking distance : < 1.0m
- Maximum speed : 5.0km/h
(Adjustable electronic speed limiting system)
- Equipped with intelligent accessories and software to ensure safety
- Maximum traction : 30kN
- Drag force : 24kN
- Real-time defection of data (speed, pressure and temperature, etc.)
Query and display of faults



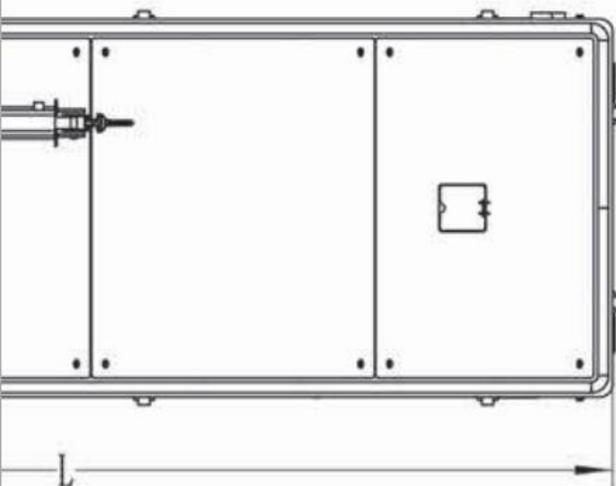
Patented pro



Patente



infringement allowed



no infringement allowed

- Drive in both directions (remote controller required)

- Vehicle power : 65kW

- Starting method : electronic

- Drive type : tractive

- Weight : 4.5t, Load : 3T

- Maximum grade-ability : $\pm 18^\circ$; Turning radius : 2.0m

- Size :

L=3.5m , W=1.2m , H1=1.1m , H2=1.44m , H3=0.25m

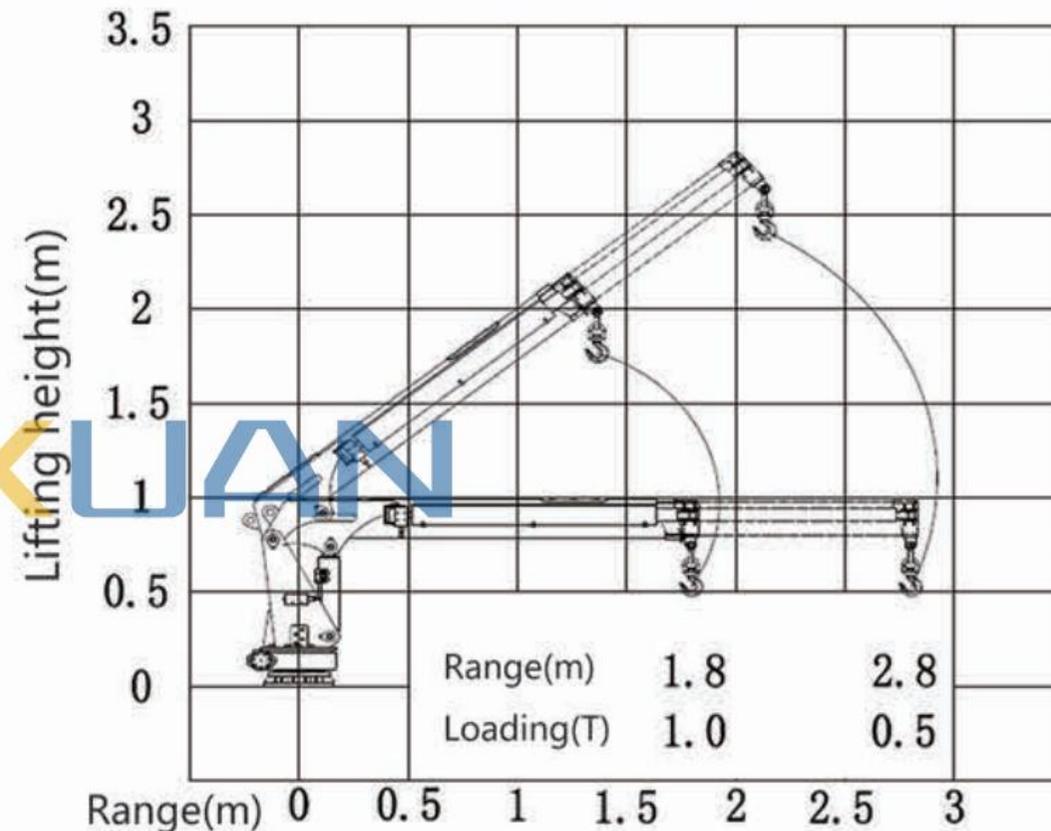
*Please contact us should you need more technical parameters.

Basic parameters of lifting device

- Load : 0.5t-1.0t
- Lifting rotation angle : 360°
- Length of lifting arm:1.8m-2.8m
- More powerful lifting device
customizable



Boom lifting weight chart



Patented product, no infringement allowed

Explosion-proof mining tracked transporter - with 3T lifting arm

For the last mile in narrow space

Integration of loading and transporting

Tracked carrier for auxiliary transportation



Patented product, no infringement allowed

Compact

Highly effective

Safe

Intelligent



BXUAN



Patented product, no infringement allowed



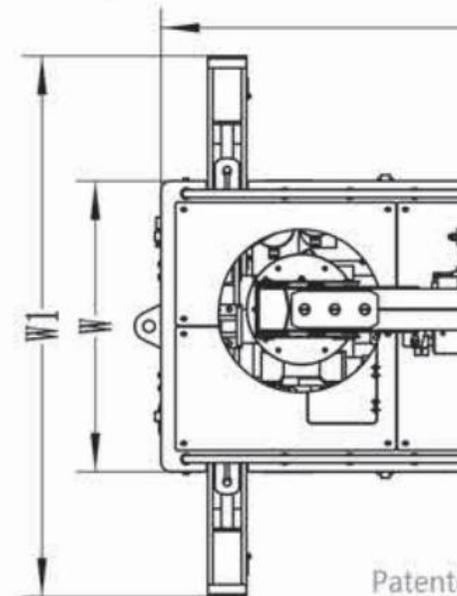
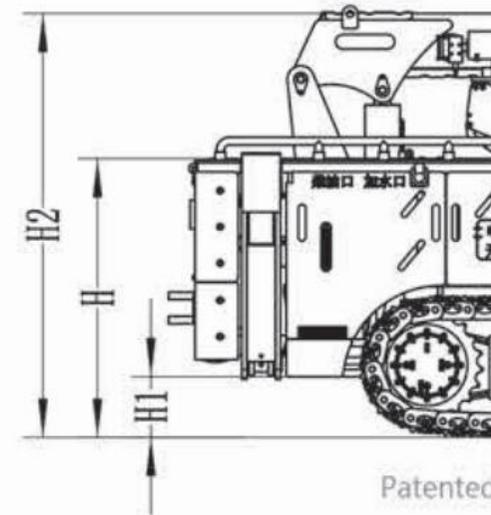
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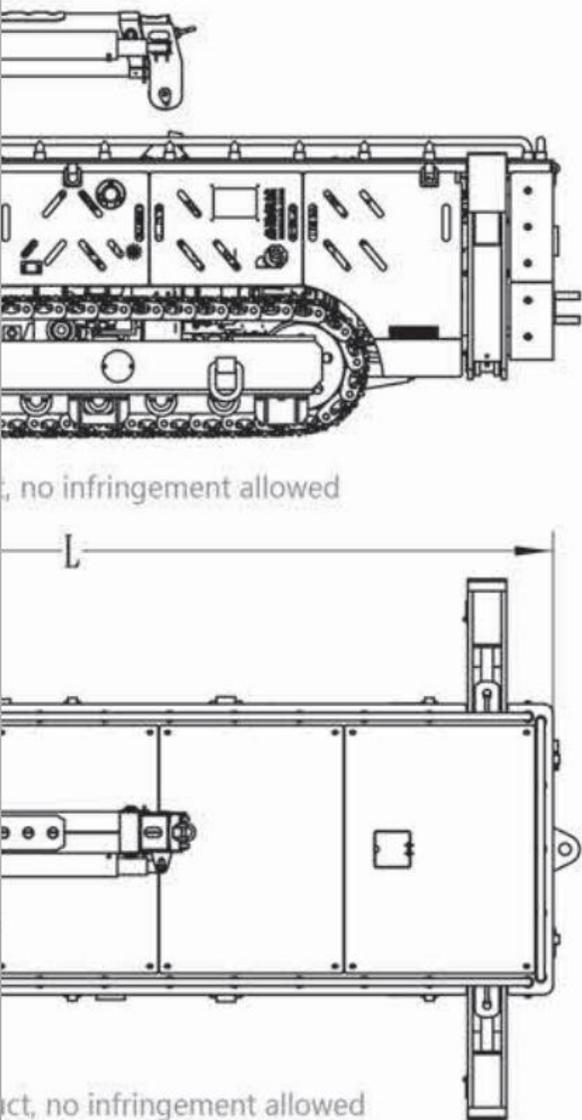
(Unmanned auxiliary transportation realizable after up-grading)

- Material transporting in narrow mine roadways and on mining faces
- Containerized transportation for materials
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Basic parameters

- Ground clearance : 200mm
- Emergency braking distance : < 1.0m
- Maximum speed : 5.0km/h
(Adjustable electronic speed limiting system)
- Equipped with intelligent accessories and software to ensure safety
- Maximum traction : 30kN
- Drag force : 24kN
- Real-time defection of data (speed, pressure and temperature, etc.)
Query and display of faults





- Drive in both directions (remote controller required)
- Vehicle power : 65kW
- Starting method : electronic
- Drive type : traction
- Weight : 6.6T, Load : 5T
- Maximum gradeability : $\pm 18^\circ$; Turning radius : 2.0m
- Size :

L=4m , W=1.2m , W1=2.2m , H=1.15m , H1=0.2m , H2=1.7m

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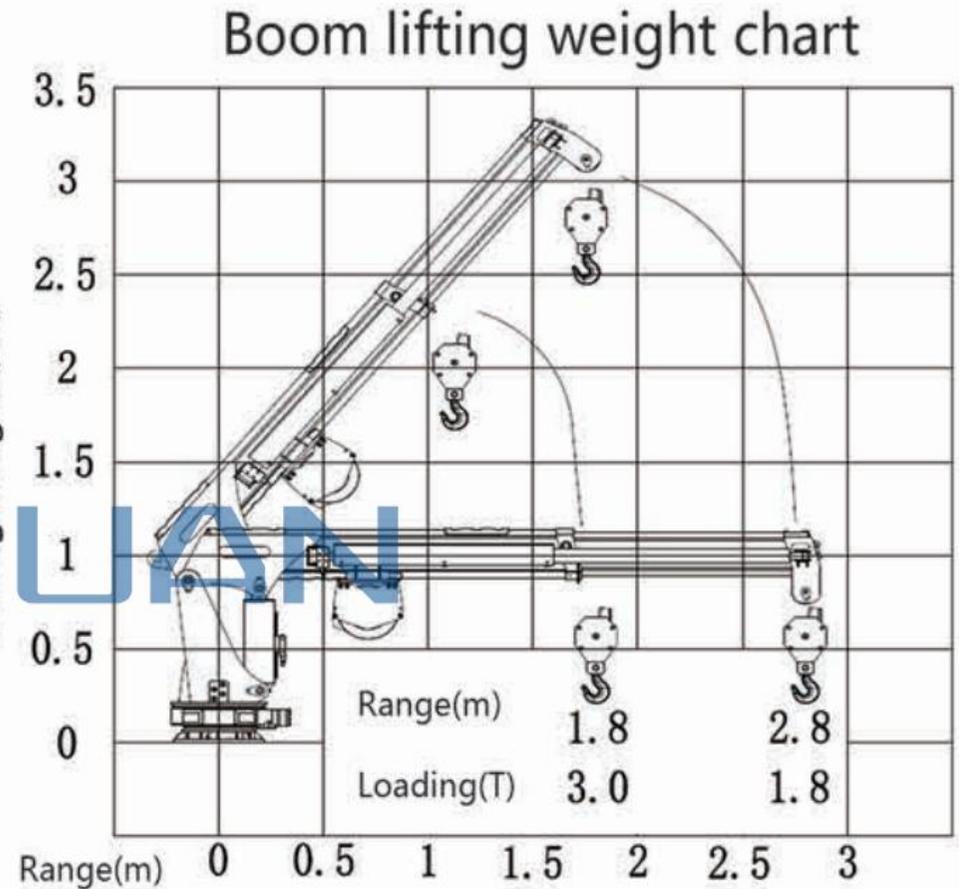
Basic parameters of lifting device

- Load : 1.8t-3.0t
- Lifting rotation angle : 360°
- Length of lifting arm:1.8m-2.8m
- More powerful lifting device
customizable



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Lifting height(m)



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Optional customizable accessories

Hydraulic capstan

- Compact and light , with large pulling force and speed; Simple structure, easy to disassemble and assemble, easy to maintain
- Note: The hydraulic capstan should not be used for carrying people, nor should it be used as a hanging capstan.



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Dozer blade

The tilt angle can be flexibly adjusted up and down, which is convenient to use and does not affect the climbing of the vehicle. It has good cutting force and leveling force, and can carry out long-distance bulldozing operations. The simply structure allows easy disassembling, assembling and maintenance.

- Note: 1.Regular maintenance and lubricating grease refilling are required. 2. In the dozing process, a small amount of material can be bulldozed, but hard materials can be handled according to different working conditions. 3. When the dozer blade has cracks or scars, it needs to be inspected and reinforced in time to avoid more severe wear.

Optional customizable accessories

Lifting platform :

- Lifting height : 1.5米 , Lifting load : 0.5t
- Compact, robust and stable, it can adapt to high-frequency continuous operation.
- Remote-controlling realizable



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Patented product, no infringement allowed

Automatic fire extinguishing device :

- Using fine spray technology, a patented sprinkler is used to spray Tibo Rex Absolute, the extinguishing agent, in the form of a fine mist to protect the engine compartment.

Optional customizable accessories



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Driving data logger

- Power failure delay recording
- High speed TF card inside
- Real-time data storing possible
- 5.6 billion frames of CAN data can be stored



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Infrared camera

- clear Imaging
- Wireless transmission
- The image quality is clear at low brightness
- Effectively display the blind spot while driving



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Millimeter wave radar

- Based on the STM32F103 single-chip micro-computer system and HLR embedded module, it is specially designed for mining vehicles working in harsh environments, and adopts CAN2.0 communication protocol to facilitate data exchange with the vehicle's EPEC controller, and can realize anti-collision function, high precision and strong anti-interference ability.



Safe

Highly effective

Intelligent

Modularized

Remote-controlled explosion-proof multifunctional modularized transportation system

- Safe transportation for unconventional parts
- Containerized transportation of materials
- Remote controlling possible
- Machined loading and unloading system with optional accessories



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(Unmanned auxiliary transportation possible after up-grading)

Basic parameters

- Length : 7000mm
- Width : 2000mm
- Height : 1350+200mm
- Ground clearance : 200-400mm (Liftable)
- Weight : 15T
- Load : 10T
- Grade-ability : $\leq 15^\circ$
- Maximum breaking distance : $\leq 7m$
- Maximum fording depth : 400mm
- Minimum turing radius : 5800mm



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Patented product, no infringement all



- Maximum speed : 20Km/h
- Driving modes: National III standard Explosion-proof diesel engine
- Net power : 105kW
- Startup mode: electronic
- Tire drive: Hydrostatic wheel edge independent drive
- Tire: solid explosion-proof filled tires
- Tire steering angle : -30° — $+90^{\circ}$, lateral translation possible
- Can be driven in both directions (Remote control possible)
- Real-time defection of data (speed, pressure and temperature, etc.)
- Query and display of faults
- Equipped with intelligent device to ensure safety
- 360-degree panoramic driving image and on-board black box
- It can linearly limit the power and speed



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- Equipped with mechanical boom, it can safely lift equipment parts, and can solve the problems of difficult loading and unloading of equipment parts, unreliable fixation, and low transportation safety factor in transportation.

• Parameters of the mechanical boom :

Max. lifting capacity	3.0t	Max. lifting moment	98kN · m
Rotating angel	360°	Vertical height	940mm
Height in working mode	1350mm	Max.pitch angle	45°
Arm length (axis of rotation)	1650-3450mm		

- Equipped with mechanical boom and bulk material
- Customizable parameters for bulk bins :
- $L \leq 4000\text{mm}$ $W \leq 1200\text{mm}$ $H \leq 1000\text{mm}$



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Patented product, no infringement allowed

- Equipped with double mechanical boom and special tooling, it can safely transport tubular materials
- Parameters of customizable tubular bins (tooling)
 $L \leq 7000\text{mm}$ $W \leq 1200\text{mm}$ $H \leq 1000\text{mm}$



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- Equipped with mechanical boom and lifting platform device, which be used for roadway top operation
- Parameters of customizable lifting platform

Lifting capacity	$\geq 0.5\text{T}$	Max. Lifting height	$\geq 1.5\text{m}$
Platform size	$2.5 \times 1.2 \times 0.4\text{m}$	Guardrail height	0.8m

*Please contact us should you need more technical parameters.

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