



JOINER MACHINERY &EQUIPMENT



JOINER Machinery&Equipment

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COMPANY PROFILE



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Out of nine heavens, lays the land of Sichuan, blessed with beauty, fertility and talents. Sichuan Joiner Electromechanical Co., Ltd., is located in Chengdu, capital of Sichuan Province a city with leisure and prosperity, culture heritage and natural beauty.

Sichuan Joiner Electromechanical Co., Ltd. is committed to development, manufacture and sales of equipment for security, emergency and outdoor activities. As a hi-tech enterprise, we provide product and services for solutions on office automation, outdoor driving, security & protection and emergency rescue operations.

Our sales and service network covers all provinces, autonomous regions and municipalities in Chinese Mainland, as well as Russia, Ukraine, Britain, Japan, India, Vietnam, Pakistan, Myanmar, Hong Kong SAR and other countries or regions.

EMERGENCY

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PICK-UP CABIN EQUIPMENT

INTRODUCTION

Pick-up cabins come with features of small size, light weight, high durability, high load-bearing capacity, good mobility, good sealing performance, good heat insulation performance, good safety performance, good adaptability, accommodating multiple transport methods, low cost, etc. making them ideal for emergency rescue missions. Pick-up cabin, as a carrier platform, can fully utilise the existing pick-up trucks in operation, which already come with capabilities of personnel transport, cargo transport, high manoeuvrability, high adaptability to road conditions, meaning no additional equipment or modification is needed. Pick-up cabin can be used as storage / management platform for emergency communications, emergency command, emergency protective equipment, emergency rescue equipment, radar stations, aviation control towers, drones, television relay stations, mechanical & electrical maintenance, exploration & survey stations, weather stations, mobile kitchens, water purification systems, emergency charging & lighting, centralized gas supply and other functions.

FEATURES

1. It features a fast self-loading and unloading lifting system (manual, semi-auto, and fully automatic), using its own lifting mechanism to complete the lifting operation of the cabin within 3 minutes by one person, and quickly realize the separation of the cabin from the transport;
2. Convenient and quick way of fixing the cabin onto its transport, ensuring safety and more reliability during transportation;
3. High safety performance: product safety parameters comply with the relevant regulations of the GB 4943 standard, and its test methods are also implemented in accordance with the relevant regulations of GB 4943. The cabin is capable of water-proof, fire-proof, lightning-proof, heat-insulated, shock-proof, acid/ alkali resistance, corrosion resistance, salt spray resistance, etc.
4. Equipped with sunshade, which provides protection against sunlight or rain in outdoor environment;
5. The cabin power supply can be configured as 1KW ~ 50KW generator, external 220V city power, vehicle power supply (12V, 24V) solar panel power supply, lithium battery or UPS power supply;
6. Power distribution system: the design of the power distribution system meets the requirements of GB50052-2009 and GB50057-2010, and follows the design principles on safety, reliability, redundancy, etc.; it has complete measures on system power supply protection, operation protection, etc.; ensuring that the emergency command & communication cabin can be used normally in various complex environments;
7. There is a separate power control and protection switch in the cabin, which can turn off the main power directly in case of an emergency;
8. According to functional requirements, the cabin can be equipped with temperature and humidity control system (air conditioning, ventilator or other equipment) and environmental monitoring system (controls for status, video, location, etc.);
9. Safe and reliable solutions for the installation of functional equipment in the cabin and the storage & transportation of equipment: fitted with shock-absorbing devices and fixing devices according to requirements to facilitate access to cabin storage;
10. Standardized and modular structure design, together with high system integration, functional equipment can be customized according to customer needs;
12. Pick-up cabin can be used as storage / management platform for emergency communications, emergency command, emergency protective equipment, emergency rescue equipment, radar stations, aviation control towers, drones, television relay stations, mechanical & electrical maintenance, exploration & survey stations, weather stations, mobile kitchens, water purification systems, emergency charging & lighting, centralized gas supply and other functions.
13. The pick-up cabin is normally applicable to pick-ups. Under special circumstances, minivans, tractors, freight tricycles or even animal-powered trucks can be selected as transport; the rapid self-loading and unloading lifting system facilitates the separation of the cabin and will not affect the cabin operation in the event of transport failure; the unique cabin chassis facilitates centralized transportation of multiple cabins by trucks, trains and ships.



COMMAND & COMMUNICATION CABIN

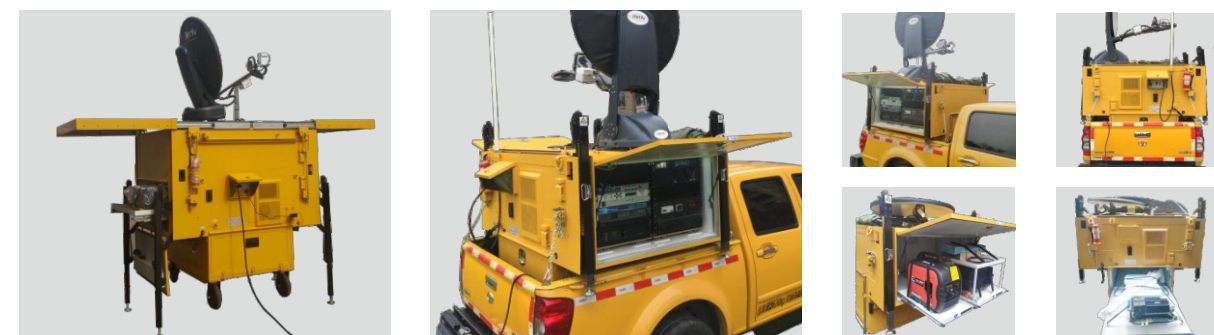


INTRODUCTION

The emergency command & communication pick-up cabin provides on-site emergency command and emergency communication support for handling emergencies. It can be used with a variety of vehicles such as passenger/ cargo pick-up trucks to meet the needs of rapid response to emergencies, mobile command and decision-making, on-site emergency response, etc. It is a leading on-site integrated command and dispatch system on international market. The emergency command & communication pick-up cabin features small size, large load-to-weight ratio, strong manoeuvrability, good sealing performance, good heat insulation, good safety performance, convenience and flexibility; adaptable to multiple modes of transportation with low cost. It is very suitable for emergency response teams working in the field.

FEATURES

1. Right compartment: cabinet compartment, also called equipment sub-cabin, including: power equipment (distribution unit), command and communication function equipment, etc.;
2. Left compartment: generator position and accessory storage;
3. Bottom compartment: charging station terminal equipment, wire reel and other accessories;
4. Cabin roof or upper cabin: when the cabin roof is open, fixed mid-range communication antenna, portable satellite antenna or mid-range antenna can be installed; the four walls of the cabin roof can be closed for antenna lifting device installation. The antenna can be lifted during use and retracted back into the cabin during transportation. According to the installation layout of the roof equipment, telescopic antenna mast can be fitted on roof or on the back of the cabin.



DATA & INTELLIGENCE GATHERING CABIN



INTRODUCTION

After the occurrence of natural disasters or major safety accidents, on-site UAV reconnaissance as a first response operation has become a generally accepted rescue measure. UAV features flexibility, convenience, fast response, strong manoeuvrability and wide field of vision. For disaster and accident site investigation, it can quickly conduct dangerous situation observations and on-site inspections, and timely feedback the on-site situation to operation command through video feeds, providing accurate basis for decision-making. At the same time, UAVs are capable of repeatedly searching the disaster-hit area, once survivors are located, they can coordinate with rescue operation and ensure safety of survivors.

The diversity of equipment on-board UAV greatly meets its application requirements in rescue and disaster relief. UAV can be equipped with infrared night vision device or thermal vision, which can lock the location of the survivors at night, deploy small self-rescue equipment along with small amount of food and drinking water to improve the chances of survival of the trapped survivors and gain more time for rescue.

The high resolution and high mobility of UAV at low altitude remote sensing, can be used for disaster or accident outcome assessment. The wide application of UAVs in rescue and disaster relief has great and far-reaching significance.

FEATURES

1. The cabin can be platform for battery-powered small fixed-wing, hexa-rotor, quad-rotor or other UAVs to meet the performance requirements under various circumstances;
2. The cabin can also be used as a vehicle-mounted automatic take-off and landing platform for tethered UAV, and can store its entire system;
3. Generator for charging and charging & distribution system are fitted for continuous uninterrupted UAV operation; it can be connected to city power and vehicle power supply (12v, 24v), and can be equipped with a solar power supply module;
4. Safe and reliable transportation of functional equipment and accessories. Both centralized and decentralized transportation can be supported, ensuring the high adaptability of the equipment;
5. Cabin roof can be used as UAV landing pad;
6. Cabin roof is fitted with flight control antenna, mounted on manually-collapsible mast;
7. Equipped with high-definition 32-inch vehicle-mounted LCD display terminal.



EMERGENCY COMMAND UNIT TRANSPORTATION CABIN



INTRODUCTION

The storage and transportation cabin of the emergency command unit is used to store and transport emergency command tent and supplies for 20 people. The modular design facilitates convenience for redeployment and realizes mobile 5S management of the items in the tent, featuring easy maintenance and safekeeping.

FEATURES

1. The cabin is composed of a number of small equipment boxes and removable antennas, which are convenient for storage and transport, with rapid and flexible deployment. It is a mobile command station that realizes remote transmission of emergency communication services, short-range communication coverage and wireless access functions (wireless trunking phones not included);
2. It can be used with a 5x8m command tent and a 3x6m equipment storage/duty tent. Standard video conference system, communication transmission system, power supply system, office system, etc. can all be configured in the tent stored in the cabin; executing emergency command operation to the disaster site under emergency conditions, and transmit real-time video communication and related files with the HQ to facilitate the command of the operation on emergency site;
3. Field emergency command is equipped with independent power supply system, and the power system features UPS uninterrupted power supply to ensure the normal operation of the equipment;
4. Cabin storage can be provided with shock absorption device according as needed and provided with reliable fixture, ensuring easy access and sorting, realizing customized management on the move or 5S management.



EMERGENCY RESCUE EQUIPMENT CABIN



INTRODUCTION

Emergency rescue equipment is the combat weapon for emergency rescue personnel, which plays a decisive role in the success or failure of emergency rescue. To improve emergency rescue capabilities, ensure the efficiency of emergency rescue work, quickly resolve emergency situation, and contain incidents, emergency rescue personnel must be equipped with professional emergency rescue equipment. For rescue operations of earthquake, meteorological disasters, geological disasters and other accidents or disasters like fire and mining accidents, professional hydraulic shearing, expansion, jacking equipment, demolition, crushing, cutting and repair tools, detection equipment, personal protection rescue tools, etc. all play a vital role in emergency rescue. The use of pick-up cabins to store and transport such equipment is convenient for routine maintenance and management, which prevents equipment loss, and is convenient for centralized transportation and use.

FEATURES

1. The cabin is comes with a generator to meet the power demand for equipment and rescue operations on-site;
2. Equipped with special hydraulic tool oil pump (pump station) to meet the power supply of hydraulic shearing, expansion and jacking equipment;
3. It can be fitted with detection, protective equipment and maintenance tools as needed;
4. The roof of the cabin can be equipped with manual retractable LED searchlight or mobile lighting equipment;
5. Well-rounded rescue equipment configurations to meet the professional needs of emergency rescue;
6. Tailored for equipment features for safe and reliable transport of equipment and easy access.



CLEANING AND DRYING CABIN



INTRODUCTION

The mobile cleaning and drying cabin can meet the emergency disposal needs of power supply facilities which were filled by muddy water due to floods. It can quickly clean the sand on the surface of cabinets, equipment, transformers, electrical switches, cables, etc., and drying them with hot air. The muddy water can be collected after cleaning. This is a professional support equipment guaranteeing timely and safe resumption of power supply. The cabin is equipped with generators, high-pressure cleaning device, high-power blower, hot blower, suction (water extraction) cleaner, clean water tank, light and related auxiliary appliances. Equipped with a self-loading and unloading system, it is suitable for pick-up transportation, featuring mobility, agility and ease of use.

FEATURES

1. Generator output power: 220V 50Hz, 2KW;
2. Adjustable high-pressure cleaner for washing muddy water on the surface of equipment, switches, etc.;
3. The high-power blower can quickly blow off the water droplets on the surface;
4. The hot blower can quickly dry the surface;
5. The suction (water extraction) cleaner can recover the muddy water on site;
6. The collapsible lighting beacon can meet the lighting needs of on-site operations;
7. 250-litre stainless steel clean water tank can store cleaning water for washing operation;
8. Equipped with cleaning materials and generic maintenance tools.



FIRE-FIGHTING CABIN



INTRODUCTION

Taking advantage of the flexible and easy loading and unloading operations of the pick-up cabin, portable fire-fighting equipment, tools, equipment, etc. can be integrated into the cabin. The fire-fighting pick-up cabin can be used for rapid fire rescue operations in narrow areas that cannot be reached by large or heavy equipment.

FEATURES

1. The cabin space is reasonably arranged with needed fire-fighting equipment, tools and instruments;
2. Lighting equipment, warning lights, megaphones, cameras, etc. can be mounted outside the cabin;
3. Multiple transport methods for all kinds of road conditions;
4. Functional layout for easy resupply and maintenance;
5. The item fixture in the cabin is reliable, featuring easy access and easy to clean, realizing customized management on the move or 5s management.



RESCUE TOOL CABIN

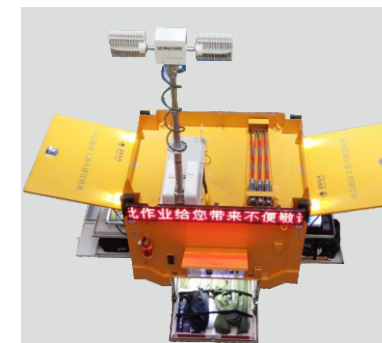


INTRODUCTION

This cabin is used for storage and transportation of inspection or emergency maintenance tools for 110KV and 35KV substations, 110KV mobile box substations, and 110KV/35KV lines. The tool storage area has a temperature and humidity control system to ensure the safe storage and transportation of insulated tools (refer to the requirements of the safety tool cabinets). The storage and transportation of non-insulated tools and items all meet the requirements on ventilation and dust prevention, ensuring the safe storage and transportation of items in various scenarios. Featuring easy access and 5S management on the move.

FEATURES

1. There is temperature and humidity control system in the tool storage area to ensure the safe storage and transportation of insulated tools and appliances. The storage and transportation of non-insulated tools and items had considered ventilation and dust prevention;
2. 2KVA, 2.6KVA and 3KVA silent generators are optional to charge and supply electricity to the cabin temperature control system and functional tools in the cabin; lithium battery packs can also be installed to keep the temperature control system working continuously during transportation;
3. The cabin is equipped with inspection or emergency maintenance tools for 110KV and 35KV substations, 110KV mobile substations, and 110KV/35KV lines;
4. Emergency lighting can be equipped on the roof or in the cabin;
5. Comprehensive equipment configuration plan to suit the needs of emergency maintenance of 110KV and 35KV substations, 110KV mobile substations and 110KV/35KV lines
6. Safe and reliable transportation and fixture method is adopted based on the features of tools and instruments, for easy access.



DRAINAGE (DISCHARGE) CABIN



INTRODUCTION

The large flow emergency drainage pick-up cabin is equipped with a portable high-power sewage pump (rated flow 400 m³/h, rated lift 8 meters, maximum lift 12 meters), pump control system, generator system, 4G module system, lighting system and support system. It is a highly mobile, highly reliable emergency drainage equipment, which can be widely used in outdoor operations, urban flood control, agricultural drought relief, urban engineering and emergency drainage needs.

PARAMETER



S/N	ITEM	PERFORMANCE PARAMETER
1	High power portable submersible pump	Rev:4255 r/min
2		Power:15 kW
3		Maximum flow: 400 m³/h
4		Rated lift: 8m, maximum lift 12m
5	Pump control system	Pump weight: 35 kg
6		304 stainless steel
7		Cabinet IP grade: IP55
8		Inverter brands: Schneider, LG, Siemens, etc.
9	Cable	With automatic protection function for overload, phase loss, short circuit, under voltage and overheat
10		Four-core 10 mm² (3*10+1*6) cable, length: 40 meters
11		Manual cable reeling device
12		With quick link plug
13	Outlet pipe	Hose, diameter at 200mm, length 25m*2
14		Hose quick docking (metal)
15		Manual hose reeling device
16	Buoy	The pump buoy is stored in the cabin, and it is reliably fixed;



S/N	ITEM	PERFORMANCE PARAMETER
1	4G module System	Main processor: high-performance DSP
2		Operating system: built-in LINUX operating system
3		Video input: 1 HD video input
4		Video compression format: H.264, H.265
5		Resolution: 1080P: 1920*1080; 720P: 1280*720; VGA: 640*360;
6		Frame rate: 1-30 frames per second adjustable
7		Frame rate: 1-30 frame/s, adjustable
8		Dual streaming supported
9		Zoom: 33x optical zoom + 12x digital zoom
10		Imaging device: 1/2.8" 2.41 million pixel progressive scan CMOS
11		Effective pixels: 2 million
12		Minimum illumination: colour: 0.05Lux, black and white: 0.003Lux (F1.6)
13		Horizontal resolution: ≥900TVL
14		Signal to noise ratio: ≥52dB
15		Zoom mode: automatic/manual
16		Maximum resolution: 1080P: 1920*108
17	Support Functions	Fitted with 120W LED manual or electric collapsible beacons, with maximum lifting height at 2.75 meters;
18		There are 60W LED beacons in the left and right cabin compartments and all operating surfaces, and each set of lights has an independent switch control
19		The left compartment has a kettle section and can also store other rescue utilities



Engine brands	Top international brands: KOHLER / Vanguard
Engine type	Two cylinder, air-cooled four-stroke, OHV
Fuel type	Gasoline
Generator rated output voltage	AC380V
Generator rated output power	20 kW
Fuel tank capacity (customized)	60 L~80L
Continuous operation time with full fuel	8.5 h~12h
Fuel supply method	Fuel pump, the cabin is fitted with independent fuel pump start/stop switch; pump rated voltage: DC12V, flow 10L/min, fitted with 2m off fuel hose

DRAINAGE (DISCHARGE) CABIN



INTRODUCTION

Natural disasters pose an important factor that endangers the safe operation of power and communication systems. Power transmission, transformation, communication lines, power supply equipment and communication equipment may be destroyed by floods. When cables and equipment are immersed in water for a long time, it may cause short-circuit or signal interruption incidents, and endanger the normal operation of power and communication systems. To counter this situation, the first thing to do is to remove the stagnant water (sewage), ensure the smoothness and safety of the line, and guarantee people's normal life and production needs; the discharge (Drainage) pick-up cabin is equipped with a portable submersible sewage pump system (made in Sweden) or the original imported portable water pump with excellent performance, and equipped with corresponding power equipment, control system, pipelines, etc., is suitable for flooding areas, construction sites, mines and other similar places where the water body contains abrasive particles.

FEATURES

1. The cabin is equipped with 1 xylem flygt submersible sewage pump, made in Stockholm, Sweden, a frequency conversion start control system and supporting pipelines, and the operation mode can be wired control or remote control operation; flow rate 50~80 m³/h; lift at 15m;
2. Equipped with 5KW~10KW YAMAHA three-phase 380V gasoline generator (6KVA~15KVA) and control system, meeting the electricity demand of mobile submersible sewage pumps;
3. Optional portable water pump (engine integrated with pump), the maximum discharge volume is 120 ~ 150m³/h, lift is at 24 ~ 29m, and suction head at 8m;
4. Emergency lighting devices can be equipped on the roof or in the cabin;
5. Equipped with supporting tools and protective equipment;
6. Comprehensive equipment configuration plan to meet the needs of emergency drainage and sewage;
7. Based on the characteristics of the equipment, a safe and reliable transportation and fixture method is adopted for easy access.



SUPPLY STORAGE CABIN



INTRODUCTION

The emergency supply storage and transportation cabin is used as a storage unit, and the storage space in the cabin can be allocated according to different needs. The storage can be divided according to the functional needs of field construction operations or emergency rescue. The storage system is configured, maintained and resupplied according to functions to ensure sufficient supply during transportation and easy redeployment.

FEATURES

1. The storage unit is flexible and can be customized flexibly according to actual needs;
2. The internal support structure of the storage unit is flexible and can be changed into any combination;
3. Multiple transport methods to adapt to a variety of complex road conditions;
4. Functional layout for convenient resupply and maintenance;
5. The items in the cabin can be reliably fixed, for easy access and cleaning, realizing customized and 5S management on the move.



EMERGENCY CHARGING & LIGHTING CABIN



INTRODUCTION

Emergency charging and lighting pick-up cabins are able to provide fast charging for mobile phones, drones, walkie-talkies, flash lights, battery (group) packs, laptops, cameras, radios, portable flash lights and other electric devices that require charging, as well as lighting service on-site in the event of disasters, power failures, power shortages, etc.

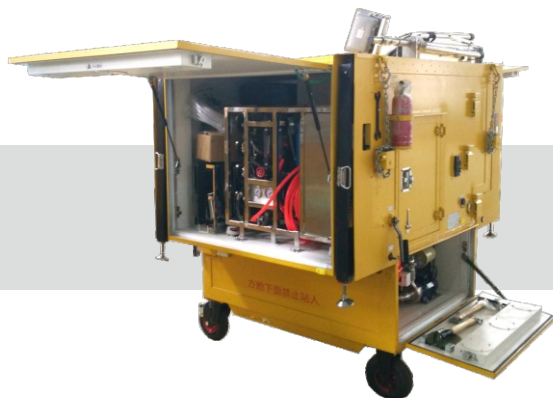
FEATURES

1. Output power: 220V 50Hz, ≤5KVA;
2. Power supply: equipped with 1 Kaper 2KVA silent hand-started digital silent gasoline generator, 220V city power input socket (optional between Kaper 3KVA electric start ultra-silent digital generator, 5KW gasoline generator), 500W to 2000W mobile emergency lithium battery power supply, solar power supply system, etc.;
3. The three major charging methods (USB fast charging, AC220V/50HZ charging, battery charging) cover most of charging currents for mobile terminal electronic products in and out of China, and can simultaneously meet the rapid charging demands for more than 150 mobile terminals;
4. The USB fast charging sockets are designed with seven protections: overcharge protection, over-discharge protection, over power protection, over-current protection, over-voltage protection, temperature protection and safety; equipped with smart charging chip, it can automatically detect charging equipment and match best current with 5V output. Supports 5V 2.4A fast charging; supports all digital devices, mobile phones, tablets, cameras, etc. from iOS/Android;
5. Each functional area can be provided with independent power supply, and comes with individual switch and safety devices: (small) drawers with locks, (large) cabinets for storing charging equipment (except for battery electrical interfaces and draw-out charging interfaces), which prevents loss of items;
6. The cabin is equipped with a built-in emergency lighting beacon: with pneumatic lifting mechanism up to 3.8 ~ 4.5 meters, 4 x 50W angle adjustable LED floodlights, the coverage radius of the light reaches 35~55 meters, and it can be controlled locally and remotely;
7. There is a separate power control and protection switch in the cabin, with emergency manual power-off function;
8. Storages: trays or brackets with self-locking slide rails can be configured according to requirements, load bearing capacity at 100~250KG, for easy fixture and access to items.



Optional mobile emergency lithium power supply; Centralized intelligent charging module for walkie-talkie battery and UAV battery (system)

WATER PURIFICATION CABIN

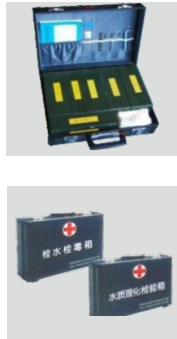


INTRODUCTION

Water purification pick-up cabin is suitable for fresh water sources such as field reservoirs, lakes, rivers, pits and ponds. It is fitted with three-stage pre-treatment filtration and reverse osmosis device to remove impurities, bacteria, viruses, heavy metals, organic components and other harmful substances in water. The water treatment capacity is 500L per hour, and the purified water quality can meet the requirements of "Standards for Drinking Water Quality" (GB5749-2006). The effluent is pure and can be used directly for drinking, canteen provision of dishes and soup.

FEATURES

1. The source water is freshwater sources from wild reservoirs, lakes, rivers, pits and ponds; the purified water quality can meet the requirements of "Standards for Drinking Water Quality" (GB5749-2006);
2. Equipment water purification output≥500L/H (25°C);
3. The equipment has water source shortage protection and low pressure protection. In case of water source shortage or insufficient pump pressure, automatic shut-down and start safety will be triggered;
4. When the water level of the clean water tank is full (there is a water level detection device that can observe or read the water level), the equipment can automatically stop and cannot be started; when the water level of the clean water tank is at empty or lower than the upper limit, the equipment, when connected with power, can start automatically;
5. The equipment comes with necessary warning signs to remind the operator of important or necessary operations;
6. The replacement of fragile and consumable parts (filter element, reverse osmosis membrane, etc.) is simple, convenient and easy. The fragile and consumable parts can be directly replaced in the cabin. The equipment does not need to be moved out of the cabin in case of non-repair maintenance works;
7. Materials and equipment in contact with water all meet the relevant requirements of laws on food safety;
8. The cabin can be operated at the water source point, or conduct on-site purification treatment after taking water from other places. The cabin also comes with corresponding equipment and containers for taking water;
9. The equipment is simple to operate and easy to maintain.



COOKING CABIN

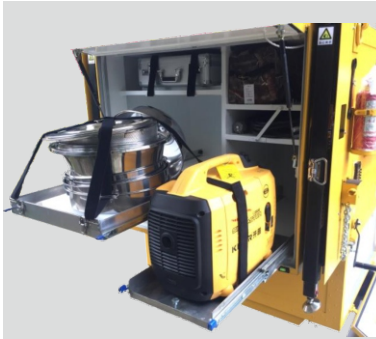


INTRODUCTION

Pick-up cooking cabin has combined the traits of multiple field cooking cabin. With integrated stainless steel kitchen utensils and energy-efficient stoves; featuring simple operation, safe & reliable, good environment adaptability and less prone to altitude effect (suitable for high altitude operation environments). The cabin is featured with all sorts of cooking methods, 2 operators can finish production of main courses and side dishes for 50 people in 1.5 hours, which lead to its nickname "multi-functional mobile kitchen". It is a logistic support equipment suitable for armed forces, police, electricity workforce, mining operators, prospecting operations, communication construction, club camping & training, field engineering construction and disaster relief.

FEATURES

1. Capable of water supply and electricity supply (diesel generator power supply and external power supply), equipped with stoves, cooking utensils and containers for all cooking, seasoning and preparation operations;
2. Catering capacity: 2 operators can finish production of main courses and side dishes for 50 people in 1.5 hours;
3. Containers, utensils, tableware, etc. for serving 50 people;
4. The stoves are designed to be easy to control air flow, with high heat concentration and wind-proof capabilities, can be used on-board of vehicles or detached from the cabin; stoves are featured with safe operation, energy conservation, easy operation, stable performance, good adaptability and fulfil safety requirements;
5. All instruments, piping, containers, utensils, tableware, etc. have met with relevant requirements of food safety laws and are easy to clean and maintain;
6. Operable altitude ≤3600m;
7. Time of deployment and retraction: ≥10min;
8. In extreme situations, main components of stoves, kitchenware, tableware and materials can be split and transported manually.



EMERGENCY POWER GENERATION CABIN



INTRODUCTION

The auto-unloading emergency power generation pick-up cabin is equipped with a manual/auto (manual or electric) self-loading and unloading system, which is suitable for places with demands for small-scale centralized power supply for command & communication, lighting, medical services, equipment power, such as rescue sites, front line headquarters, temporary medical stations, disaster-stricken resettlement points, etc.

Equipped with 30~50KW diesel generator set produce in or outside of China, featuring quiet design, low noise, can provide 220V and 380V power output; fuel tank volume at 120 litres, capable of continuous operation about 15 hours; built-in (50W~120W) * 4 LED pneumatic collapsible lighting beacon; equipped with a mobile or drawer type emergency charging board; an intelligent control system that can remotely control the start and stop of the generator and monitor the running status of the generator; equipped with 4G or 5G modules to achieve audio and video gathering and transmission system functions.



MODEL NUMBER		45KVA	35KVA
GENERATOR	Type:	Brushless, self-excited, synchronous generator	Brushless, self-excited, synchronous generator
	Phase:	Single phase / three phase	Single phase / three phase
	Rated voltage (V):	220/380	220/380
	frequency:	50Hz	50Hz
	rated power:	40KVA	31.8KVA
	Reserve power:	45.2KVA	35KVA
	Rated current (A):	60	48.1
	Power factor:	0.8	0.8
	Insulation class:	Stator and rotor: F grade	Stator and rotor: F grade
	Voltage variation:	±1.5%	±1.5%
ENGINE	Type:	Four-stroke, water-cooled, four-cylinder diesel engine 4TNV84	Four-stroke, water-cooled, four-cylinder diesel engine 4TNV84
	Displacement (L):	1.995	1.995
	Scheduled speed (rpm):	3000	3000
	Starting method:	Electric starter	Electric starter
	fuel:	Automotive diesel	Automotive diesel
	Fuel tank capacity (liter):	120	120
ATTACHMENT FUNCTION	Voltage adjustment method:	AVR style	
	No-fuse circuit breaker:	Have	
	Engine control terminal:	Have	
	DPC:	Have	
	Emergency shutdown equipment:	Have	
	Voltmeter:	Have	
	Fuel gauge:	Have	
	Oil warning light:	Have	
	Ammeter:	Have	
	Operating schedule:	Have	
	Water temperature alarm light:	Have	
	Charging warning light:	Have	
	Voltage Regulator:	Have	

MID/LARGE CABIN EQUIPMENT



EMERGENCY COMMAND EXTENSION CABIN



INTRODUCTION

Emergency command extension cabin mainly features on video, voice and data transmission between field of operation and command centre. Gathering, monitoring, coding and converting video feeds on-site; provide computer LAN (wireless and cable) connection and networking connection with other emergency database platforms.

The cabin is capable of extending towards both sides for larger operational space; accommodating communication & command system, lighting system, power supply system, water supply & drainage system, ventilation system, living accommodation system, etc.



AUTO-UNLOADING COMMAND EXTENSION CABIN



INTRODUCTION

Automatic extension cabin is equipped with fully-automatic unloading system and travelling mechanism, it can achieve loading & unloading from transport and short range travelling without the help from hoisting devices. The cabin is fitted with 10KW silent generator set, high power lighting system (with collapsible post), 3KW air conditioner, reaching 35 square meters after extension deployment, can be used as emergency command & communication (meeting) cabin and accommodation cabin.

FEATURES

1. Fitted with fully automatic lifting mechanism, capable of self-levelling, thus realizing cabin loading/unloading operation with its transport [7m truck with open-top hopper (cabin length included) and container semi-trailer transport];
2. Cabin deployment/retraction operation completed within 10 min;
3. Fitted with travelling mechanism for short distance movement;
4. Structures can be either panel cabin or skeleton framework cabin, etc.;
5. The cabin is capable of water-proof, fire-proof, lightning-proof, heat-insulated (performance may vary between different cabin structures), shock-proof, acid/ alkali resistance, corrosion resistance, salt spray resistance, etc.
6. Fitted with hoisting mechanism and slide mechanism.



S/N	ITEM	PERFORMANCE PARAMETER
1	Dimensions (length * width * height mm)	Before expansion7000 x2200 x2300; After expansion7000 x6500 x2300
2	Cabin weight (kg)	2000
3	Self-loading and unloading system load (kg)	5000
4	Lifting height (with sleepers) (mm)	1400
5	Width of unloading truck (mm)	2890
6	Working temperature (°C)	-20°C~+50°C
7	Storage temperature (°C)	-35°C~+70°C
8	Rainproof mm/min	6

COMMUNICATION COMMAND CABIN



INTRODUCTION

The communication command cabin is mainly suitable as field communication command conference rooms, work rooms and item storage. The cabin can work in harsh and complex emergency environments. It has good performance against moisture, salt spray, mildew, heat, water, etc., and can carry the basic assembly tools, maintenance spare parts, support equipment of the system, etc. It improves the mobility of emergency equipment and can meet the requirements of road and railway transport.

FEATURES

1. Dimensions: (6050~12190)×2440×2590mm, applicable to standard container semi-trailers and flatbed trucks;
2. Optional military grade cabin boards, skeleton cabin frame, and other structures;
3. Optional communication, office, lighting, temperature control, power supply and other systems;
4. Modular design for needs of emergency command,, which can be integrated/stored and fixed in a modular manner, for easy transport;
5. Ambient temperature, solar radiation, working altitude, temperature, salt spray, sand dust, rain, snow, fog, transportability and other indicators all meet the requirements of the national and military standards.



STORAGE & TRANSPORTATION CABIN



700P CHARGING CABIN



The cabin also has the system functions as an emergency charging pick-up cabin, and there are no less than 350 charging ports; it can be equipped with a 5-12KW generator, overhead retractable lighting beacon, and large storage space.



700P REFRIGERATOR CABIN

The cabin is suitable for field living and operation needs, transporting frozen and refrigerated food in the hot summer; and has separate refrigeration and freezing areas, which can achieve two refrigeration temperatures; separate control system, convenient operation; equipped with labor-saving, fast and easy-maintained gear-type lifting mechanism; and can be self-mounted and unloaded on its transport.

PICK-UP ADD-ONS AND MODIFICATION



HANDLING BOOM



INTRODUCTION

Mounted on the front (rear) bumpers of pick-ups, light trucks, off-road vehicles, agricultural vehicles, etc., it has the functions of lifting, jacking and towing. It is mainly suitable for operations on surfaces, slopes and underground engineering rescue in the fields of military & police, rescue teams, electricity engineering, hydraulic engineering, roads and bridges engineering, etc.

FEATURES

1. Use Q235 or high-strength aluminium alloy material;
2. The sleeves are connected by elastic pipe clamps, which is easy to deploy and retract; to prevent mud or sand from entering the structure, the design is socket-free.
3. The upper sleeve is designed to be larger than the lower sleeve so that when retracting and cleaning, mud or sand will not fall into the structure.
4. Once fully deployed, the device can be used for hoisting cargo, conducting underground rescue and engineering & rescue by cliff-side, etc.
5. When all sleeve pipes are retracted and installed back to the chassis, the device can be used for towing cargo or vehicle rescue;
6. Hoisting height $\leq 2.6\text{m}$ and hoisting capability $\leq 300\text{kg}$;
7. The winch installed on the cargo compartment can be used to adjust the height of the handling boom; it is also equipped with a hand-cranked hoisting winch.

When the electric winch is disabled or there is a need for extra hoisting cable length, the hand-cranked can be engaged for hoisting cargo or other purposes.



Handling boom closed state



Handling boom lever drag state

MODEL NUMBER	T-LEF-300	PULLING FORCE	maximum9500lb
LIFTING PERFORMANCE	maximum300kg	LIFTING HEIGHT	2600mm
FOLDED SIZE	1456×125×335 (mm)	EXPAND SIZE	3180×766×300 (mm)

Cargo Bracket



INTRODUCTION

The product is used to install cranes, ladders, tarpaulins, and fix binding items. It is suitable for emergency construction operations of power engineering, hydraulic engineering, construction, roads & bridges works, farms & pastures operations, etc. It can be installed on pick-ups, light trucks, vans, mini trucks, featuring simple structure, convenient deployment and easy operation.

FEATURES

1. Lightweight aluminium alloy, can be handled by two operators;
2. The top of the bracket can be used to place items, and maximum load bearing $\leq 300\text{kg}$
3. Engineering ladder can be placed on the top of the bracket for easy access;
4. Equipped with wired control handle and wireless remote control, the crane can hoist and load goods $\leq 300\text{kg}$;
5. The top height of the bracket after being installed onto the cargo compartment of the vehicle is $\leq 2.2\text{m}$ (suitable for the driving height limit of underground parking lots and normal carriageways, such as expressways);
6. Optional trap cover for protection against wind and rain.



MODEL NUMBER	T-SEB-300
LIFTING PERFORMANCE	maximum300kg
FOLDED SIZE	1630×1760×825 (mm)
CRANE TRAVEL	2600mm
LIFTING HEIGHT	highest1800mm
EXPAND SIZE	3000×1760×825 (mm)

Bumper Crane



INTRODUCTION

Mounted on the rear bumper of a pick-up, the installation position is connected to the chassis beam, and it can also be connected to the square socket of a trailer. It uses the on-board 12V power supply to hoist cargo weighing $\leq 300\text{kg}$, operable by one person. Mainly suitable for power engineering, hydraulic engineering, construction, roads & bridges works, farms & pastures operations, repair & maintenance industry, etc.

FEATURES

1. The column and boom are made of heat-treated aluminium alloy, which can be used by single operator or even a female operators;
2. Equipped with wire control handle and wireless remote control, for automatic boom lifting;
3. It can lift cargo up to 300kg, and handling range is within 1.25m radius;
4. The column can be rotated 350 degrees, and the cargo can be easily placed in the cargo compartment;
5. It can be deployed on other supporting points for lifting cargo and underground engineering operations, etc.;
6. Connected to the beam from the rear bumper of a pick-up, which ensures safety and reliability, and can also be used as a rear bumper.



MODEL NUMBER	T-LEB-300	COLUMN ROTATION ANGLE	350°
LIFTING PERFORMANCE	300kg	LIFTING HEIGHT	2600mm
FOLDED SIZE	1650×330×240 (mm)	EXPAND SIZE	1650×600×2660 (mm)
NET WEIGHT	95kg		