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 **JIANGSU INDUSTRIAL TECHNOLOGY RESERCH INSTITUTE**  
Technology and Equipment of Road Engineering Institute  
**JITRI** Jiangsu JITRI technology and equipment of road engineering institute Co., Ltd

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**EXPLORE ROAD ENGINEERING TECHNOLOGY  
PROVIDE COMPLETE SET OF SOLUTIONS  
FOR GREEN HIGHWAY CONSTRUCTION AND MAINTENANCE**



 **JIANGSU INDUSTRIAL TECHNOLOGY RESERCH INSTITUTE**  
Technology and Equipment of Road Engineering Institute  
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Our mission: Explore road engineering technology, provide complete set of solutions for green highway construction and maintenance.

Our vision: To become the industry trust and international leading road engineering R & D center and industrial incubator base.

Our core values: Taking Great Responsibilities, Acting with Great Morals, Making Great Achievements.

Our Enterprise spirit: Inheritance, Struggle, Transcendence, Sharing.



## ENTERPRISE INTRODUCTION

The Institute of road engineering technology and equipment of Jiangsu Industrial Technology Research Institute (Jiangsu JITRI road engineering technology and equipment Research Institute Co., Ltd.) was established in June 2017. It was jointly built by the Jiangsu Provincial Industrial Technology Research Institute, the Xuzhou economic and Technological Development Zone, the XCMG and the core team and adopted a new section. The institutional mechanism is a new R & D institution owned by state-owned units. At present, the road Institute has gathered the top talents of the academicians of the Chinese Academy of engineering, the academicians of the Australian Academy of engineering the director of the National Engineering Laboratory interested in the progress, and has gathered a large number of professors, researchers and engineering application experts who are of the industry and the development of the industry.

The Institute is focusing on key core technology research and development in the field of highway maintenance, combining innovative technology with business incubating. In order to promote industrial upgrading and strategic transformation, and form a decision-making system with high-tech equipment as the leader, providing materials, equipment, technology and maintenance. Intelligent control complete set of construction and other. So far, five enterprises have been incubated. JITRI Road won the "discover Xuzhou" top 10 enterprises with the most investment value in 2020, approved Jiangsu innovation and Entrepreneurship (academician) team and "Xuzhou (Jicui) road engineering technology research center" in 2021, in the same period it has been recognized as a national high-tech enterprise.

The Institute is also responsible for Technology R&D management of highway construction and maintenance technology, materials and equipment transportation industry R & D center (XCMG). The center focuses on the integrated collaborative research and development of highway construction and maintenance technology materials and equipment, focusing on the key techniques of "new road structure and material technology and equipment", "highway traffic emergency disposal technology materials and equipment under extreme weather", and "road daily fast maintenance complete technology and intelligent equipment". The research and development of the technique and the advanced application technology.

# THE HOT IN-PLACE RECYCLING UNIT

The hot in-place recycling unit is mainly used for repairing asphalt pavement cracks, potholes, ruts, insufficient skid resistance coefficient and other diseases. Through on-site heating, scarifying, mixing a certain amount of new aggregate, new asphalt, reagent, etc., after mixing, paving, rolling and other processes, the old asphalt concrete pavement within a certain depth (generally no more than 6cm) can be recycled at one time. With the characteristics of uniform heating, environmental protection, efficient and fast, accurate control and comfortable operation. It is a high-quality, high-efficiency, energy-saving, and environment-friendly hot in-place recycling equipment for asphalt pavement.



## MAIN TECHNICAL FEATURES

- (1) Hot air heating machine adopts hot air circulation heating of multi unit, small partition and variable power, so that the pavement can be heated evenly and efficiently, and avoid asphalt aging.
- (2) Microwave resonance mobile heating technology to ensure the rapid dehydration and temperature increase of the material pile.
- (3) The regenerating agent adopts pulse spraying, accurate and uniform.
- (4) Milling adopts overall product front structure, high flatness.
- (5) The double horizontal shaft material is forced to mix with variable speed and variable track, so that the new and old asphalt mixture can be fully mixed and the workability is good.
- (6) Equipped with remote control operating system, enclosed air-conditioned cab, the operation environment is friendly.

## COLLABORATIVE CONTROL AND MANAGEMENT

Intelligentize, informatization, networked, and digitization construction management platform realizes point management, intelligent monitoring, unit collaborative control, remote fault diagnosis, the whole process data backtracking, to ensure the production efficiency and project quality.



# HOT-IN-PLACE HOT AIR HEATER

JH450



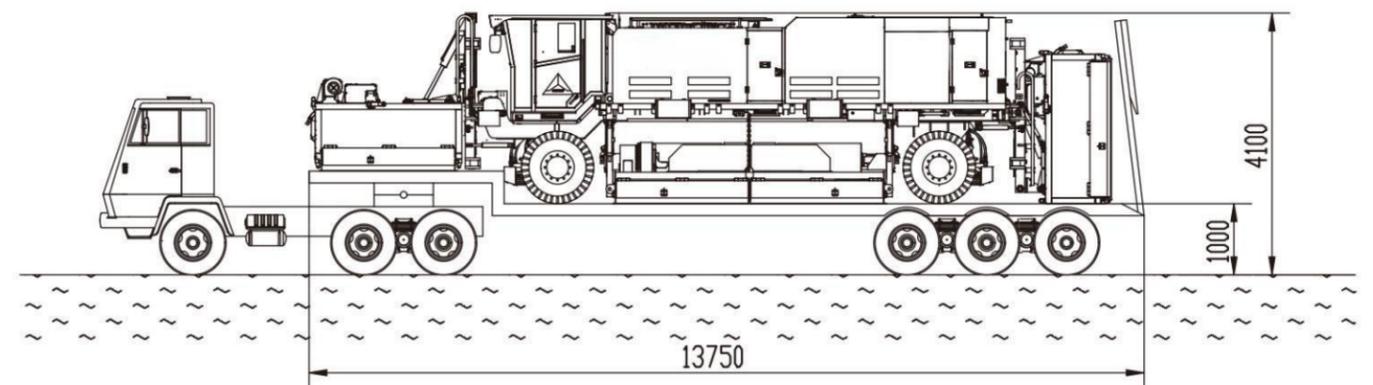
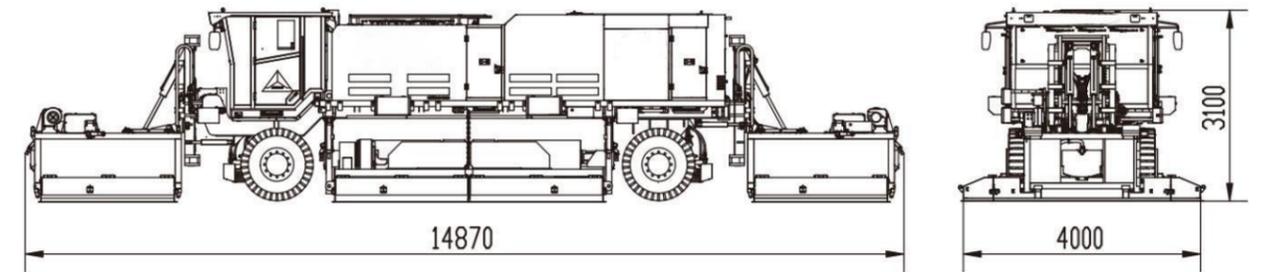
## MAIN TECHNICAL PARAMETERS

ITEM	UNITE	PARAMETER
Heatingmode and fuel	/	variable power hot air circulation,diesel
Maximum heating widthmm	mm	4000
Heating depthmm	mm	0~60
Maximum heating area	m <sup>2</sup>	36
Heating power	kW	2800
Generatorpower	kW	15
Enginepower	kW	129
Fueltank volume	L	3600
Operation speed	m/min	0~8
Travelspeed	km/h	0~7
Transportmasst	t	28.5
Transportationsize(L × W × H)	mm	12400x3000x3100
Operatingsize(L × W × H)	mm	14870x4000x3100

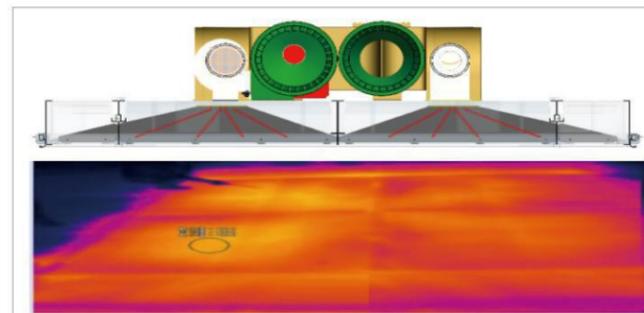
## PRODUCT INTRODUCTION

JH450 hot-in-place air heater adopts multi unit, small partition, variable power hot air circulation heating, which is heated evenly and efficiently, avoiding asphalt aging and effectively controlling asphalt flue gas emission. The unique heating wall actuator is adopted to realize the lifting, flipping and turning operation of the heating device, which has good adaptability for transition, climbing and curve construction and meets the requirements of national laws and regulations of transportation. The heating wall is made of high temperature resistant and anti-corrosive material, which has a long life without deformation. Equipped with a remote control operating system and a closed air-conditioned cab, the operation environment is friendly.

## MACHINE OVERALL SIZE



A unit independent heating parameter control interface



Multi-unit, small partition heating structure

# HOT-IN-PLACE MILLER

## JHM450

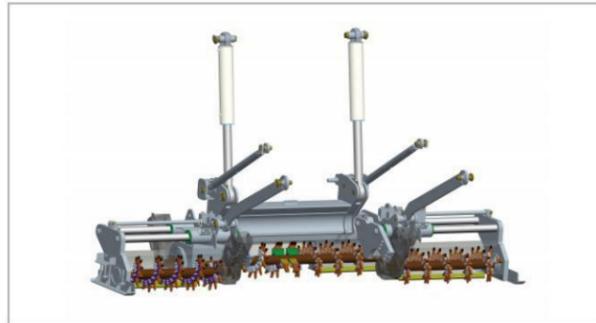


## MAIN TECHNICAL PARAMETERS

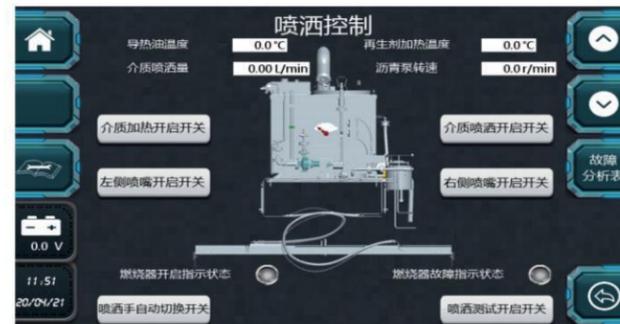
ITEM	UNITE	PARAMETER
Heating mode and fuel	/	Variable power hot air circulation, diesel
Heating width	mm	4000
Heating depth	mm	0~60
Heating area	m <sup>2</sup>	18
Heating power	kW	1400
Milling width	m	3~4.4
Milling depth	mm	0~60
Additive tank volume	L	1250
Additives heating method and fuel	/	Burner + heat transfer oil, diesel
Regenerant spraying width	m	3~4.4
Generator power	kW	15
Engine power	kW	129
Fuel tank volume	L	1600
Operation speed	m/min	0~8
Travel speed	km/h	0~7
Transport mass	t	28.5
Transportation size(L × W × H)	mm	10550 × 3000 × 3200
Operating size(L × W × H)	mm	12140 × 4000 × 3200

## PRODUCT INTRODUCTION

JHM450R hot-in-place miller, milling adopts a monolithic font structure and the working width is steplessly adjustable to ensure that the milling depth on both sides of the road is consistent with that in the middle, pulse spraying of regeneration agent, precise and uniform; hot air circulation heating wall and flue gas hierarchical treatment device effectively suppresses the emission of asphalt fumes; equipped with MOBA leveling instrument to realize automatic adjustment of milling depth; heating wall adopts high temperature resistant and anti-corrosion material, which has no deformation and long service life; equipped with remote control operating system, and closed air-conditioned cab, the operation environment is friendly.

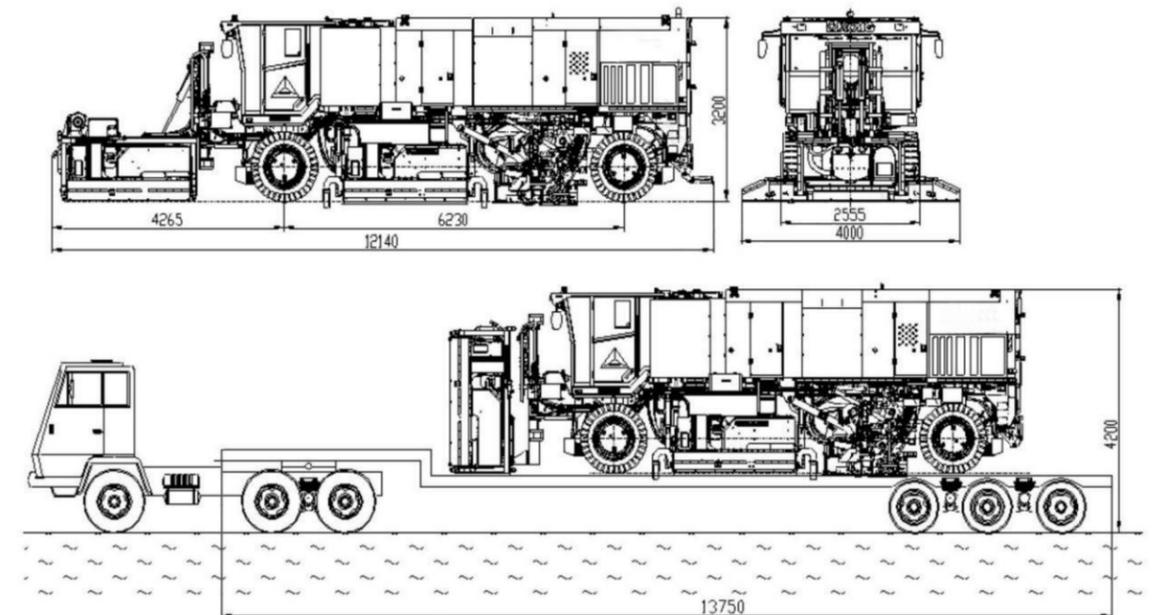


Type Milling and planing structure



Pulse spray control interface

## MACHINE OVERALL SIZE



# HOT-IN-PLACE MICROWAVE HEATER

JH450W



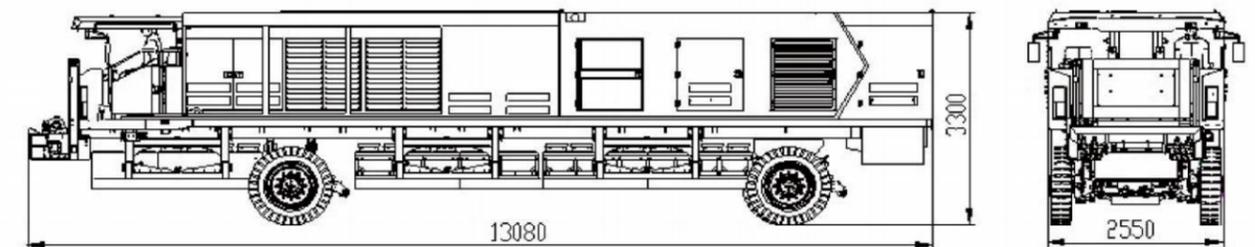
## MAIN TECHNICAL PARAMETERS

ITEM	UNITE	PARAMETER
Heating mode	/	microwave
Heating width	mm	1140
Heating depth	cm	≥15
Heating area	m <sup>2</sup>	9.3
Heating power	kW	448
Microwave radiation	mW/cm <sup>2</sup>	0.23
Insulation board length	mm	7800
Insulation board wedth	mm	4140
Generator power	kW	500
Engine power	kW	74
Fuel tank volume	L	2200
Operation speed	m/min	0~8
Travel speed	km/h	0~7
Transport mass	t	31
Transportation size(L × W × H)	mm	13080 × 2550 × 3300
Operating size(L × W × H)	mm	13080 × 4140 × 3760

## PRODUCT INTRODUCTION

JH450W is the world's first self-developed high-power in-place resonant mobile heating machine, which realizes rapid dehydration and temperature rise of pile, ensures the regeneration quality, improves the road performance of the old asphalt mixture, and extends the life of the road. Microwave penetrating ability, uniform heating, completely avoid asphalt aging, scorching and other phenomena, green environmental protection. Multiple microwave shielding devices realizes the safety protection of high-power microwave output in the mobile state. Equipped with a remote control operating system, the operating environment is friendly.

## MACHINE OVERALL SIZE



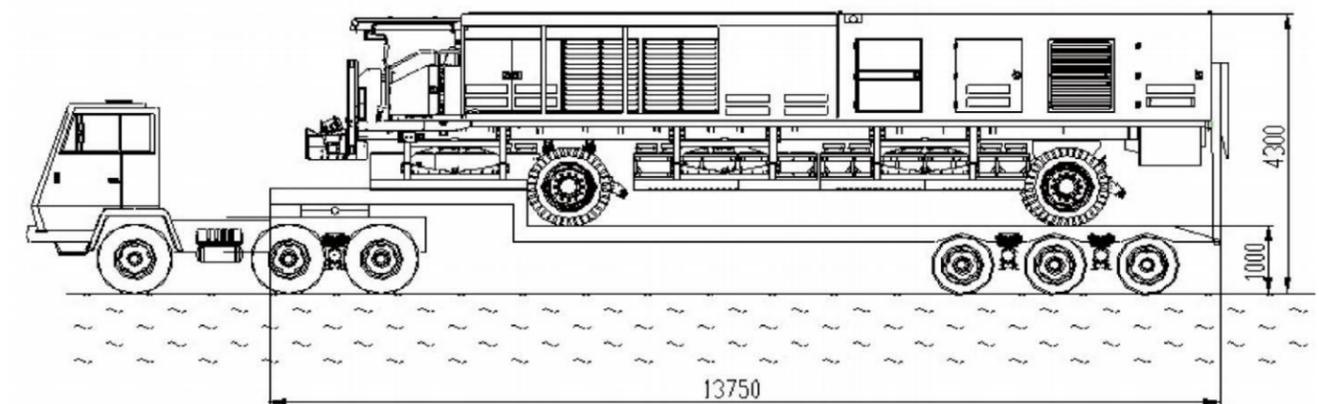
The microwave moves the heating pile in place



Intelligent construction interface with microwave heating

序号	检测项目	单位	标准规定	设计值	检测值	结果	备注
九	作业性能						
41	最高温度	°C	/	/	154.3	/	/
42	最低温度	°C	/	/	121.8	/	/
43	平均温度	°C	/	/	138.1	/	/
44	加热均匀性(微波辐射式)	°C	≤30	16.3	符合	/	/
45	加热升温速度	°C/min	≥6.5	7.1	符合	/	/
46	最高温度	°C	/	/	174.5	/	/
47	最低温度	°C	/	/	126.9	/	/
48	平均温度	°C	/	/	150.7	/	/
49	加热均匀性(微波辐射式)	°C	≤40	23.8	符合	/	/
50	加热升温速度	°C/min	≥8.0	8.6	符合	/	/
51	0.05m微波泄漏检测率	mW/cm <sup>2</sup>	≤1	0.23	/	/	/

Microwave leak detection value



## MAIN TECHNICAL PARAMETERS

ITEM	UNITE	PARAMETER
Heating mode	/	Embedded, multi-channel, layered and three-dimensional heating mode
Heating depth	mm	4000
Heating width	mm	0~150
Heating area	m <sup>2</sup>	27
Heating power	kW	2100
Heating temperature	°C	≥40
Thermal junction temperature	°C	≥120
Loading capacity	m <sup>3</sup>	3
Capacity of medium box	L	1000
Flue tank volume	L	2400
Engine power	kW	129
Operation speed	m/min	0~8
Travel speed	km/h	0~7
Transport mass	t	31
Transportation size(L×W×H)	mm	13560×3000×3100
Operating size (L×W×H)	mm	16490×4000×3100



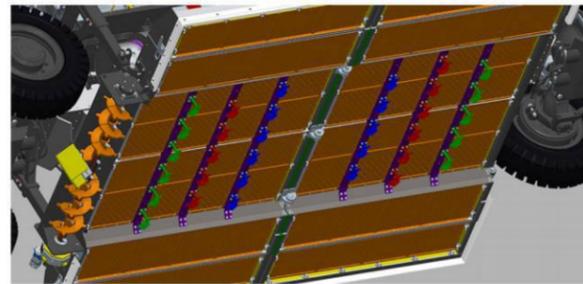
## HOT-IN-PLACE RECYCLING REMIXER JHR450

## PRODUCT INTRODUCTION

JH450T can control the opening degree of material storage door and the conveying speed of scraper, which can be adjusted in real time to match the operation speed. The product has high measurement accuracy, which can reach 1%. The vehicle adopts embedded, multi-channel, layered and three-dimensional heating mode, meanwhile, it can separate and concentrate asphalt. In order to realize the synchronous temperature rise of old and new asphalt mixtures, the product innovatively introduces the new structure of trapezoidal temperature rise channel and scarifier. The temperature raising capacity exceeds 40 degrees, energy saving, high efficiency and continuous heating, and the interlayer thermal connection temperature shall not be lower than 120 °C. The vehicle is equipped with remote control operating system and closed air-conditioned cab, whose operating environment is friendly.

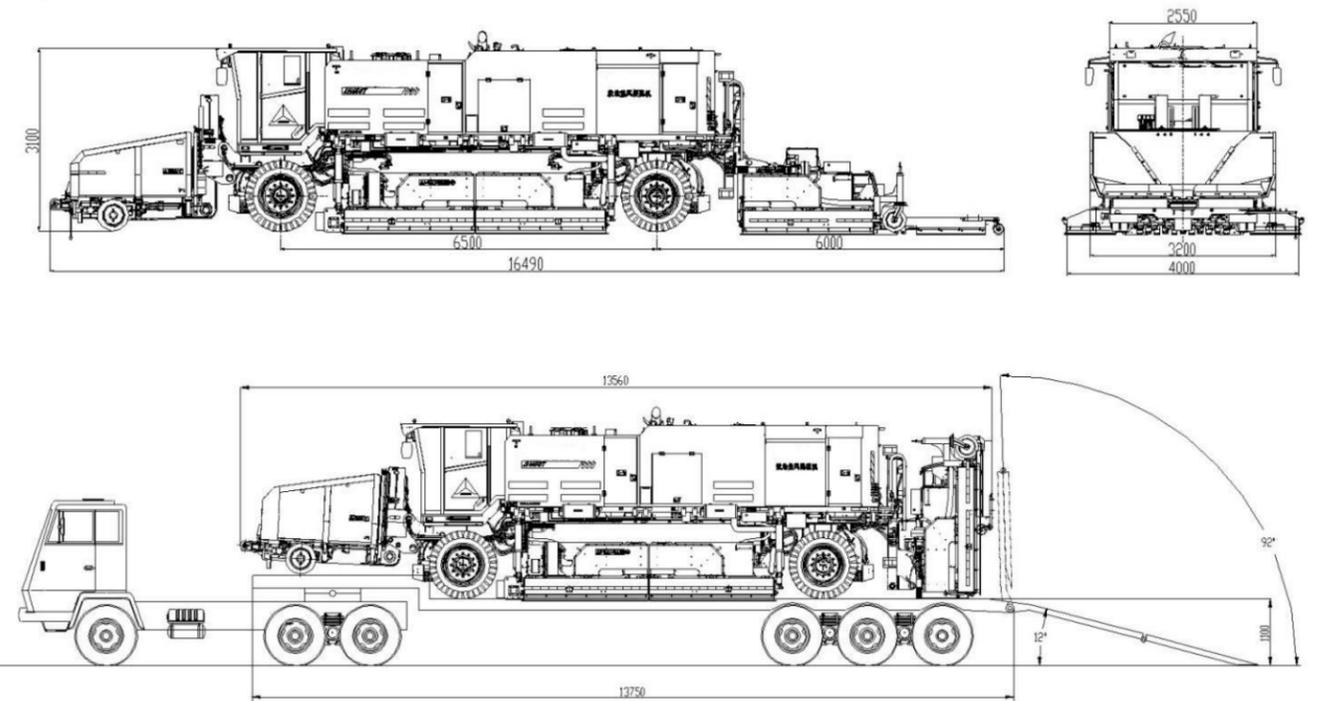


Control the opening degree of material storage door, which can be adjusted in real time to match the operation speed. The measurement accuracy can reach 1%.



Embedded, multi-channel, layered and three-dimensional heating mode

## MACHINE OVERALL SIZE



# HOT-IN-PLACE RECYCLING REMIXER

## JHR450

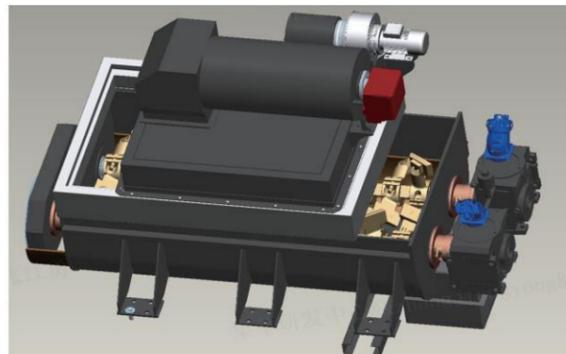


## MAIN TECHNICAL PARAMETERS

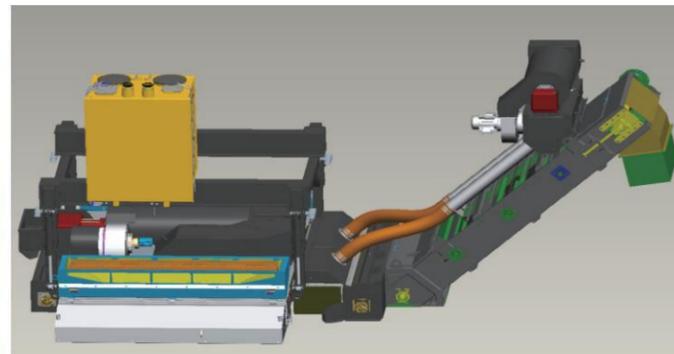
ITEM	UNITE	PARAMETER
Working depth	mm	4000
Working width	mm	≤60
Loading capacity	m <sup>3</sup>	3
Thermal junction temperature	° C	≥ 120
Secondary heating temperature	° C	20
Capacity of medium box	L	1000
Asphalt mixture transportation capacity	t/h	>120
Mixing capacity	t/h	rated 90;max120
Engine power	kW	192
Operation speed	m/min	0~8
Travel speed	km/h	0~7
Transport mass	t	31
Transportation size(L × W × H )	mm	13235 × 3000 × 3100
Operating size(L × W × H )	mm	13235 × 4000 × 3100

## PRODUCT INTRODUCTION

The remixer JHR450 adopts double horizontal shaft material variable speed variable trajectory forced mixing, the new and old asphalt mixture can be fully mixed and the workability is good. The material receiving device can go up and down as a whole, support amplitude movement, left and right rotation of beam and synchronous steering function of front and support wheels. Using JHR450 can effectively avoid the pavement gradation damage caused by wheel rolling or ground contact. Meanwhile JHR450 can handle flue gas during construction with environmental protection and high efficiency using unique secondary temperature raising channel, new structure of scarifier and three stage flue gas recovery and treatment process. Equipped with remote control operating system, enclosed air-conditioned cab, the operation environment is friendly.

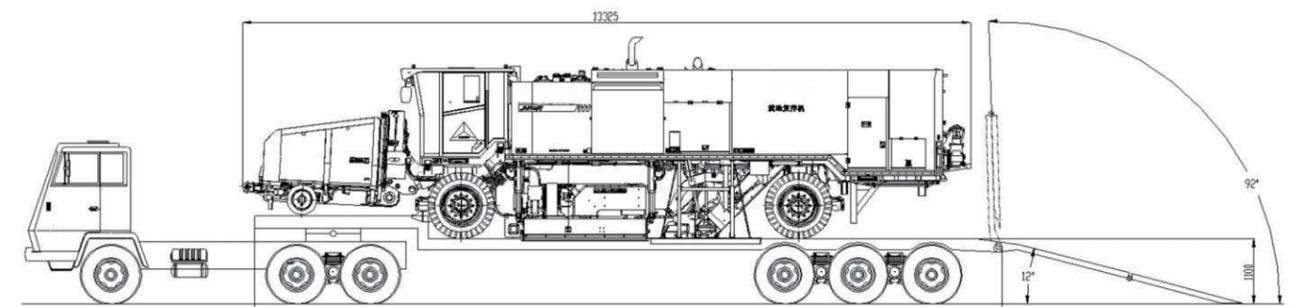
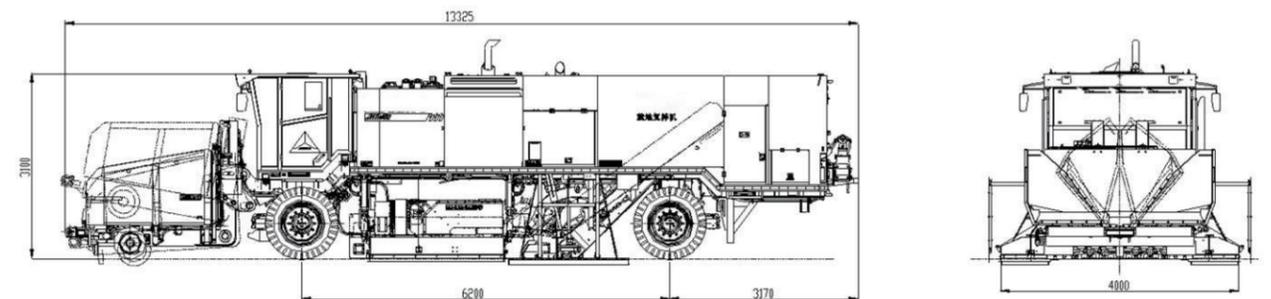


Double horizontal shaft material variable speed variable track forced mixing



Pulse spray control interface

## MACHINE OVERALL SIZE



# NEW GENERATION INTELLIGENT MICROWAVE MAINTENANCE VEHICLES FOR ASPHALT ROAD



## MAIN PERFORMANCE FEATURES

- (1) Efficient and environment-friendly and non-destructive maintenance: uniform heating of the asphalt pavement, small temperature gradient between the upper and lower layers, completely avoiding asphalt aging and scorching, and achieving efficient smoke-free and non-destructive maintenance.
- (2) Self-healing of asphalt performance: It improves the road performance of asphalt, restores the mechanical strength of the broken asphalt mixture to more than 80% in a short time, and realizes high-quality regeneration.
- (3) All-weather construction: The hot patching technology greatly improves the bonding performance and sealing performance of the pit boundary. Even in extreme weather conditions such as cold winter or after rain, emergency pit repair can be repaired.
- (4) Intelligent management: real-time construction process monitoring and remote guidance, equipped with a digital intelligent management system for one pit, one file, and statistical analysis of mixture, fuel consumption, repaired area, depth, use cost, etc., to realize the optimal maintenance of the whole road section and the whole life cycle.
- (5) Adjustable heating area: users can heat according to the actual pit disease zone; using single engine, high-frequency switching power supply, high and low electric separation technology, the reliability of the whole machine is greatly improved, and energy saving is more than 15%.
- (6) Double heating and double grading: heating wall and microwave heating chamber respectively heat the road surface, recycled materials or new materials, double grading repair, advanced technology and wide adaptability.

## PRODUCT INTRODUCTION

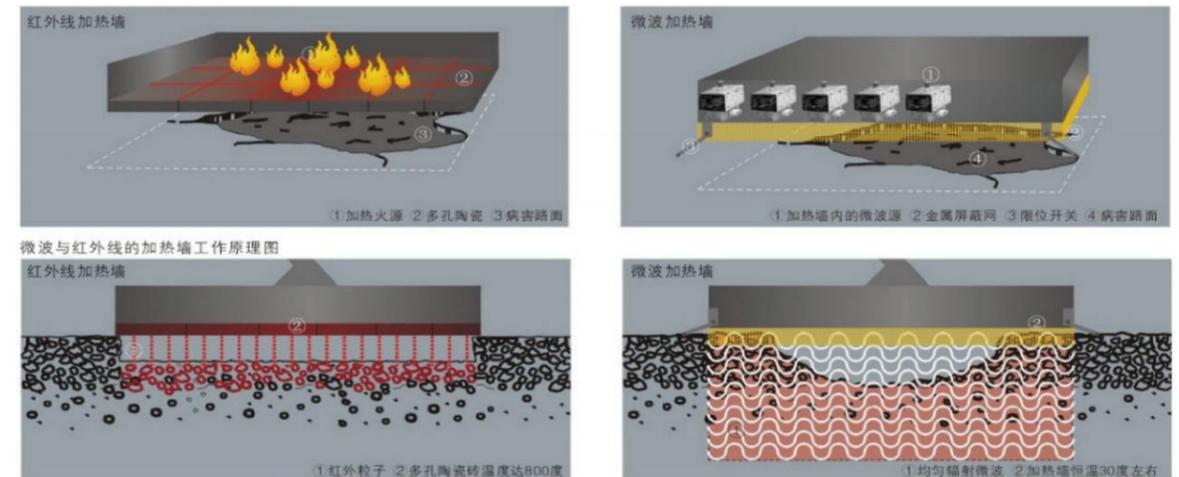
New generation of intelligent asphalt road and microwave maintenance vehicle is mainly used for repairing local diseases such as potholes and cracks on asphalt pavements of expressways, ordinary roads, and municipal roads and caddles, and the efficient cleaning of the thin ice on the road. It can also assist in deicing and snow removal. It is a multi-purpose, energy-saving, environmental protection and efficient asphalt pavement maintenance machinery.

Microwave leak detection value

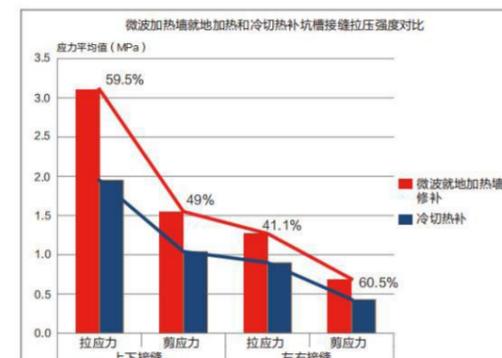
序号	检测项目	单位	标准规定	设计值	检测值	结果	备注
三 沥青路面加热性能							
22	加热方式	mm	/	微波加热	微波加热	符合	/
23	加热面积	m <sup>2</sup>	/	/	1.67	符合	/
24	加热面积与公称值误差	%	<5	/	1.15	符合	/
25	路面加热表面最高温度	°C	≤230	/	181.1	符合	/
26	路面整体加热均匀性	°C	≤50	≤25	21.3	符合	/
27	加热升温速度	°C/min	/	≥6.5	7.4	符合	/
28	路面加热深度	mm	≥60	/	180	符合	/
29	微波功率衰减率	%	≤10	≤10	2.4	符合	/
30	0.05m 微波泄漏功率密度	mW/cm <sup>2</sup>	≤5	≤3	0.72	符合	/
四 乳化沥青喷洒效果							
31	乳化沥青喷洒直径	mm	/	/	83	/	/
五 噪声							
32	机外辐射噪声 (声功率级)	dB(A)	≤113	/	102.5	符合	/



Comparison of microwave and infrared heating



Comparison of joint strength between microwave pit repair and cutting hot repair



One pit, one file data management system interface

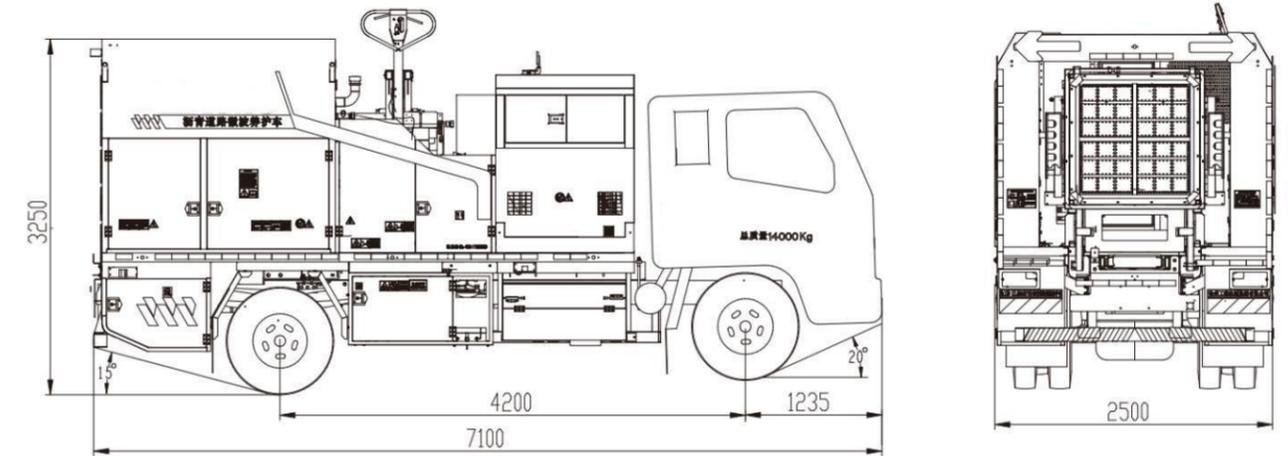


## MAIN TECHNICAL PARAMETERS

ITEM	UNITE	JCM60W(XZJ5143TYH)	JCM106W(XZJ5184TYH)	JCM1062W(XZJ5145TYH)
Heating area	m <sup>2</sup>	0.5~1.0	0.4~1.6	0.4~1.6
Effective heating depth	cm	0~12	0~12	0~12
Microwave radiation	mW/cm <sup>2</sup>	0.67	0.72	0.72
Partition number	↑	7	16	16
Mixing bin volume	m <sup>3</sup>	0.4	0.4	0.4
Waste bin volume	m <sup>3</sup>	0.6	0.6	0.6
Emulsified asphalt tank volume	L	40	40	40
Heating method of emulsified asphalt	-	Electricheating	Electricheating	Electricheating
Hot asphalt volume(Selection)	L	5	60	5
Heating method of hot asphalt(Selection)	-	Electricheating	Burner	Electricheating
Chassis	-	BJ5144JQZKPA-03	CA1180P62K1L2E6Z	BJ5144JQZKPA-03
Maximum net power of chassis engine	kW	114	192	114
Driving form	-	4×2	4×2	4×2
Emission standard	-	National IV	National IV	National IV
Maximum speed	km/h	80	89	80
Fuel tank volume	L	150+180	300	150+260
Shape size (L × W × H)	mm	7100×2500×3250	6960×2500×3270	7100×2500×3250
Auxiliary Tools(Selection):0.3t electric crane、Pickaxe、0.5t road roller				

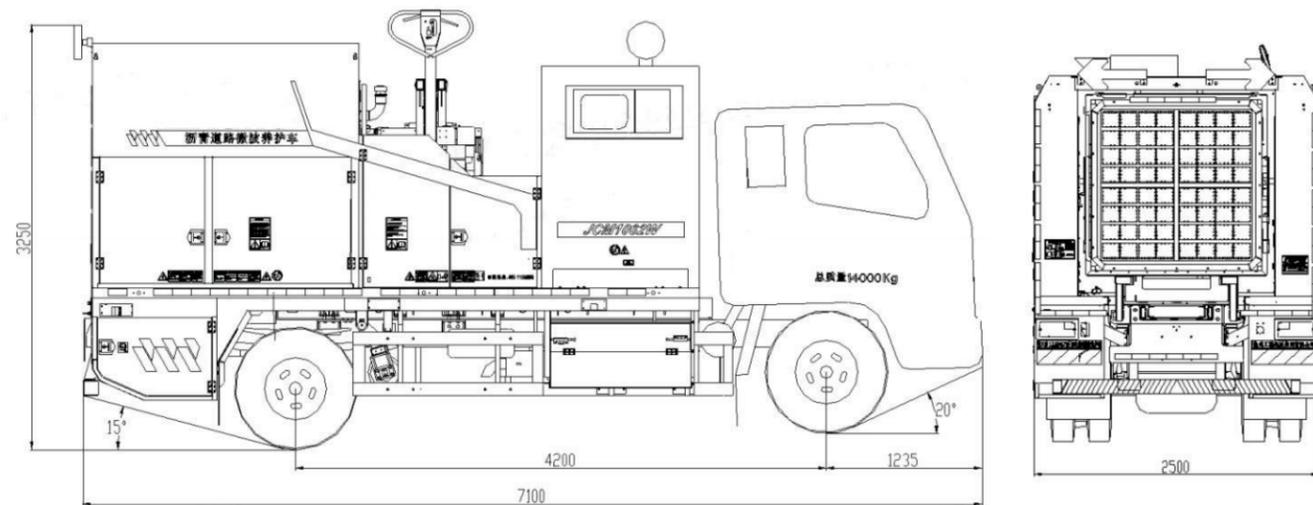
## MACHINE OVERALL SIZE

JCM60W ( XZJ5143TYH )

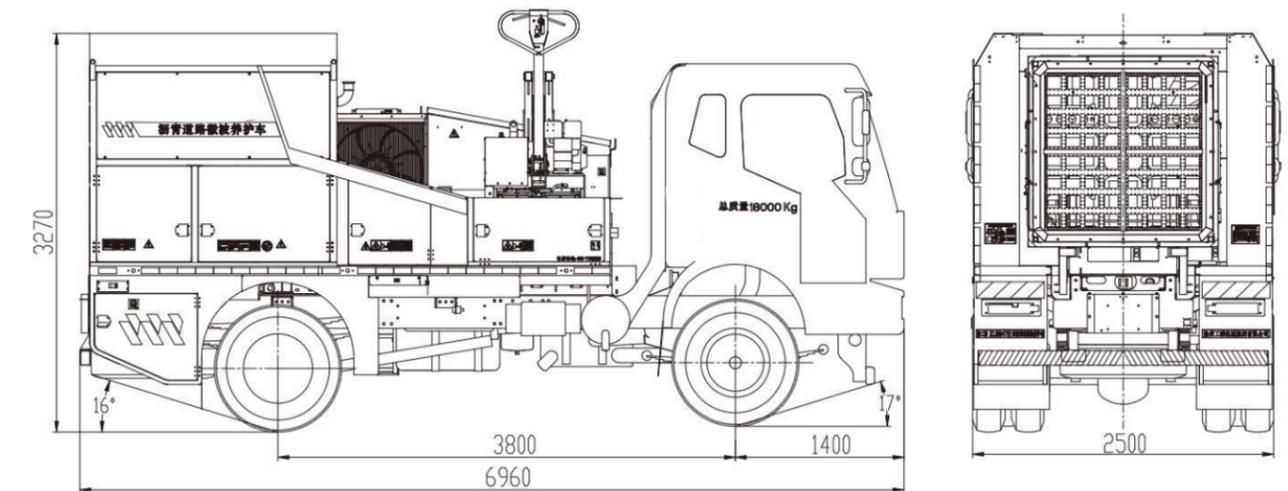


## MACHINE OVERALL SIZE

JCM1062W ( XZJ5145TYH )



JCM106W ( XZJ5184TYH )



# VEHICLE-MOUNTED ASPHALT ROAD MICROWAVE MAINTENANCE DEVICE



## MAIN TECHNICAL PARAMETERS

ITEM	UNITE	JCM60E	JCM106E
Heating area	m <sup>2</sup>	0.5~1.0	0.4~1.6
Effective heating depth	cm	0~12	0~12
Microwave radiation	mW/cm <sup>2</sup>	0.67	0.72
Partition number	↑	7	16
Mixing bin volume	m <sup>3</sup>	0.4	0.4
Fuel tank volume	L	180	260
Emulsified asphalt tank volume	L	40	40
Heating method of emulsified asphalt	/	Electricheating	Electricheating
Hot asphalt volume(Selection)	L	5	5
Heating method of hot asphalt(Selection)	/	Electricheating	Electricheating
Mass	kg	6000	7000
Chassis (recommended)	/	BJ5144JQZKPA-03	BJ5144JQZKPA-03
Shape size (L × W × H)	mm	4900 × 2500 × 2175	4900 × 2500 × 2175

## PRODUCT INTRODUCTION

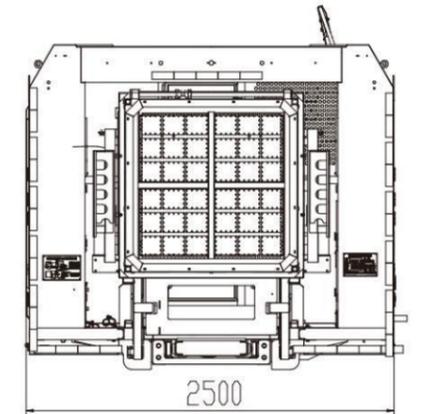
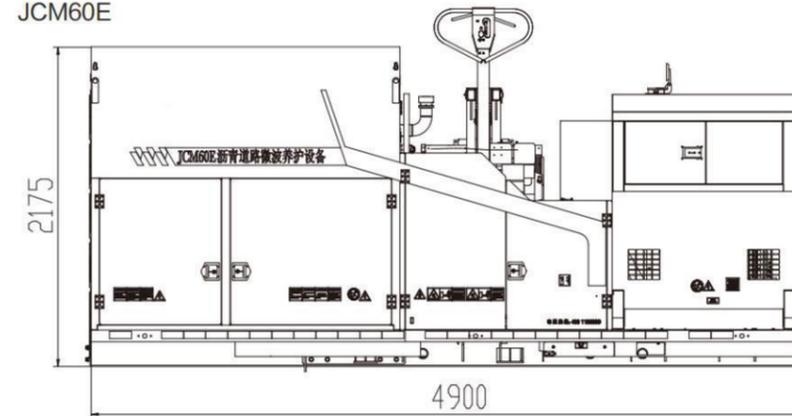
The vehicle-mounted asphalt road microwave maintenance device is mainly used for the repair of local diseases such as potholes, cracks, and upheavals asphalt pavements. It is a portable, energy-saving, environment-friendly and efficient road maintenance device.

## MAIN PERFORMANCE FEATURES

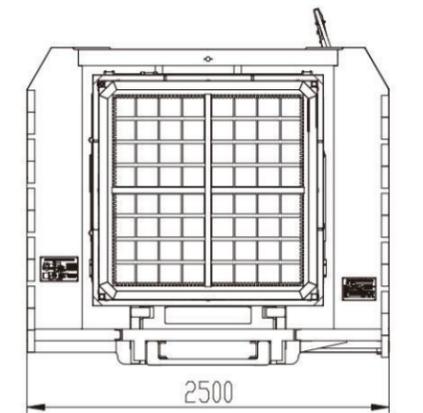
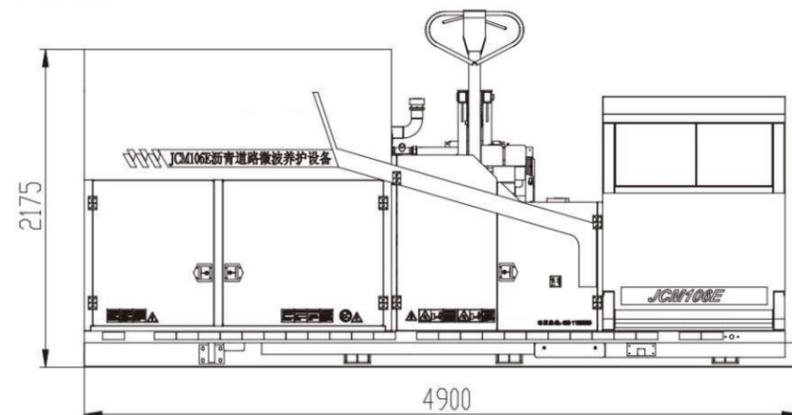
- (1)Efficient and environment-friendly and non-destructive maintenance: uniform heating, small temperature gradient between the upper and lower layers, completely avoiding asphalt aging and scorching.
- (2)Self-healing of asphalt performance: it improves the road performance of asphalt, and realizes high-quality regeneration.
- (3)All-weather construction: even in extreme weather conditions such as cold winter or after rain, emergency pit repair can be repaired.
- (4)Intelligent management:equipped with a digital intelligent management system for one pit, one file.
- (5)Adjustable heating area.District heating can be carried out according to the actual pit diseases.
- (6)Modular integrated design,easy to move,economical and applicable.

## MACHINE OVERALL SIZE

JCM60E



JCM106E



# THERMAL REGENERATION REPAIR VEHICLES FOR ASPHALT ROAD

JCM100F



## PRODUCT INTRODUCTION

Thermal regeneration repair vehicles for Asphalt road adopts microwave and hot air composite heating technology equipped with a 1100kg heating mixing pot. It is mainly used for repairing local diseases such as potholes, cracks, and upheavas of asphalt pavement. It is a multi-purpose, energy-saving, environment-friendly, high-efficiency road maintenance machine, which can realize old material regeneration, cold material heating, and new material mixing to meet the rapid repair of large-area pits.

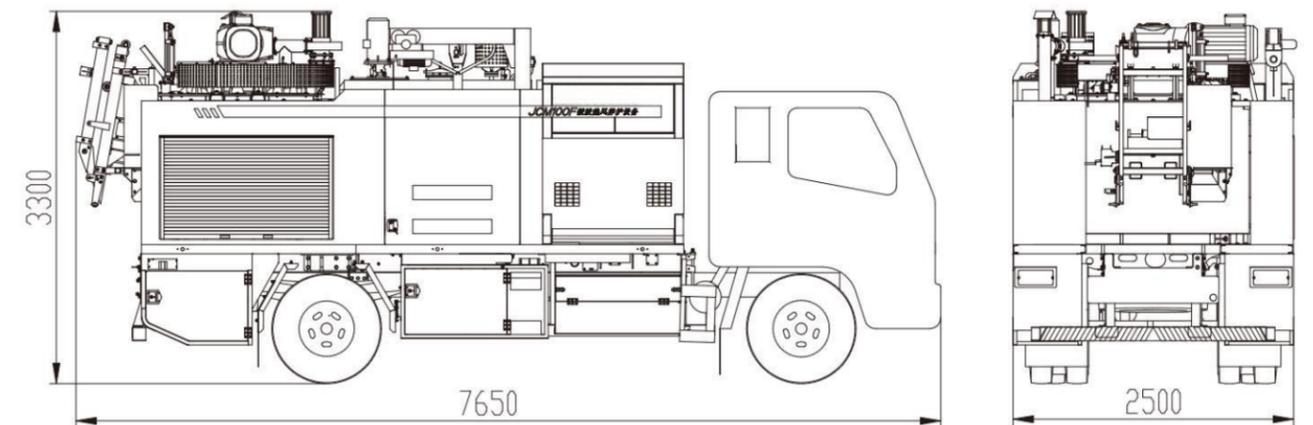
## MAIN PERFORMANCE FEATURES

- (1) Using the original microwave and hot air composite heating technology to achieve high efficiency and high quality regeneration. Microwave heating can improve the performance of asphalt and avoid asphalt aging. At the same time, the asphalt is added accurately in the process of heating and mixing.
- (2) Hot air circulation heating technology is adopted to improve the utilization rate of residual heat.
- (3) It can realize the rapid heating and regeneration of 4-6 t/h asphalt mixture to meet the rapid maintenance of large-area diseases.
- (4) Microwave suppression, exhaust gas recovery, cyclone dust removal and water mist dust removal form a quadruple environmental measure to reduce flue gas and dust emissions.
- (5) The programmable control system is adopted to realize intelligent control and fault diagnosis of the whole machine, which is convenient, safe and reliable.

## MAIN TECHNICAL PARAMETERS

ITEM	UNITE	JCM100F(XZJ5140TXB)
Production capacity of asphalt mixture	t/h	4~6
Mixer capacity	kg	1100
Heating method of asphalt mixture	/	Microwave and Hot air
Hot asphalt tank volume	L	1000
Heating method of emulsified hot asphalt	/	Burner
Microwave radiation	mW/cm <sup>2</sup>	0.71
Adding method of asphalt	/	Auto
Emulsified Asphalt Tank volume	L	140
Heating method of emulsified asphalt	/	Electricheating
Generator power	kW	50
Hopper capacity	kg	280
Environmental protection measures	/	Microwave suppression+exhaust gas recovery+cyclone dust removal+water mist dust removal
Waste bin volume	m <sup>3</sup>	0.6
Fuel tank volume	L	150+300
chassis	/	BJ5144JQZKPDA-03
Maximum net power of chassis engine	kW	114
Driving form	/	4×2
Emission standard	/	National IV
Maximum speed	km/h	80
Shape size (L × W × H)	mm	7650 × 2500 × 3340
Auxiliary Tools(Selection):0.5t electric crane、Pickaxe、0.5t road roller		

## MACHINE OVERALL SIZE



## VEHICLE-MOUNTED MICROWAVE HOT AIR CURING DEVICE



## MAIN TECHNICAL PARAMETERS

ITEM	UNITE	JCM100E
Production capacity of asphalt mixture	t/h	4~6
Mixer capacity	kg	1100
Heating method of asphalt mixture	/	Microwave and Hot air
Hot asphalt tank volume	L	400
Heating method of emulsified hot asphalt	/	Burner
Microwave radiation	mW/cm <sup>2</sup>	0.71
Adding method of asphalt	/	Auto
Generator power	kW	50
Hopper capacity	kg	280
Fuel tank volume	L	300
Dust removal method	/	Microwave suppression+exhaust gas recovery+ cyclone dust removal+water mist dust removal
Mass	kg	5800
Truck specifications	t	9
Shape size (L × W × H)	mm	4500 × 1800 × 2200

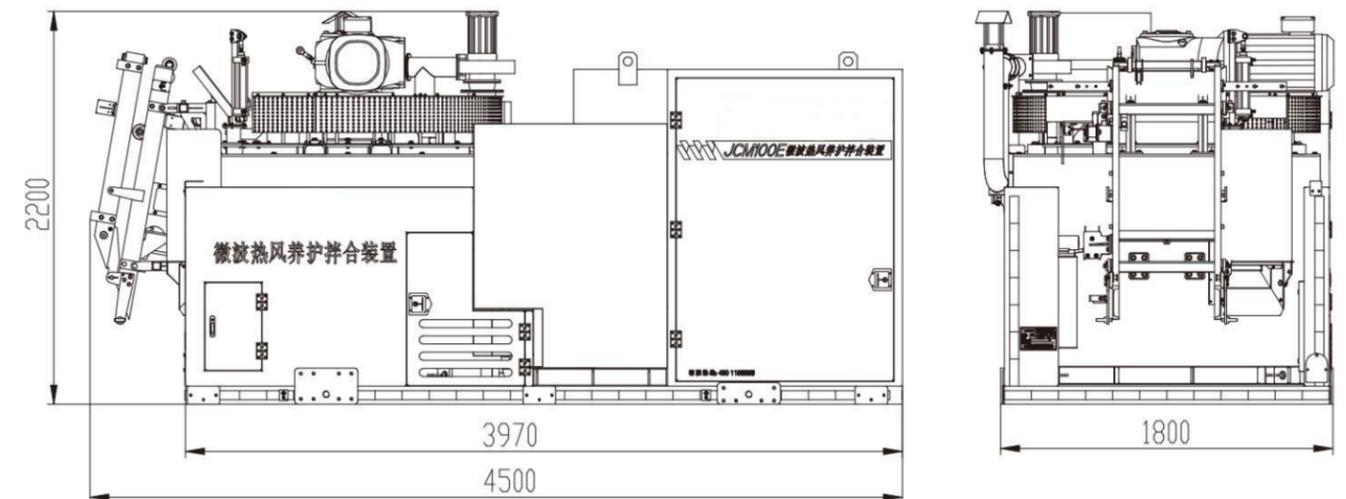
## PRODUCT INTRODUCTION

The vehicle-mounted microwave hot air curing device adopts the composite heating technology of microwave and hot air, equipped with a 1100kg heating mixing pot. It is mainly used for repairing local diseases such as potholes, cracks, and upheavals of asphalt pavement. It is a multi-purpose, energy-saving, environment-friendly, high-efficiency road maintenance machine, which can realize old material regeneration, cold material heating, and new material mixing to meet the rapid repair of large-area pits.

## MAIN PERFORMANCE FEATURES

- (1) Using the original microwave and hot air composite heating technology to achieve high efficiency and high quality regeneration. Microwave heating can improve the performance of asphalt and avoid asphalt aging. At the same time, the asphalt is added accurately in the process of heating and mixing.
- (2) Hot air circulation heating technology is adopted to improve the utilization rate of residual heat.
- (3) It can realize the rapid heating and regeneration of 4~6 t/h asphalt mixture to meet the rapid maintenance of large-area diseases.
- (4) Microwave suppression, exhaust gas recovery, cyclone dust removal, and water mist dust removal form a quadruple environmental protection measure to reduce flue gas and dust emissions.
- (5) Adopt modular integrated design, easy to move, economical and applicable.
- (6) The programmable control system is adopted to realize intelligent control and fault diagnosis of the whole machine, which is convenient, safe and reliable.

## MACHINE OVERALL SIZE



## TRAFFIC CONE COLLECTION ENGINEERING VEHICLE

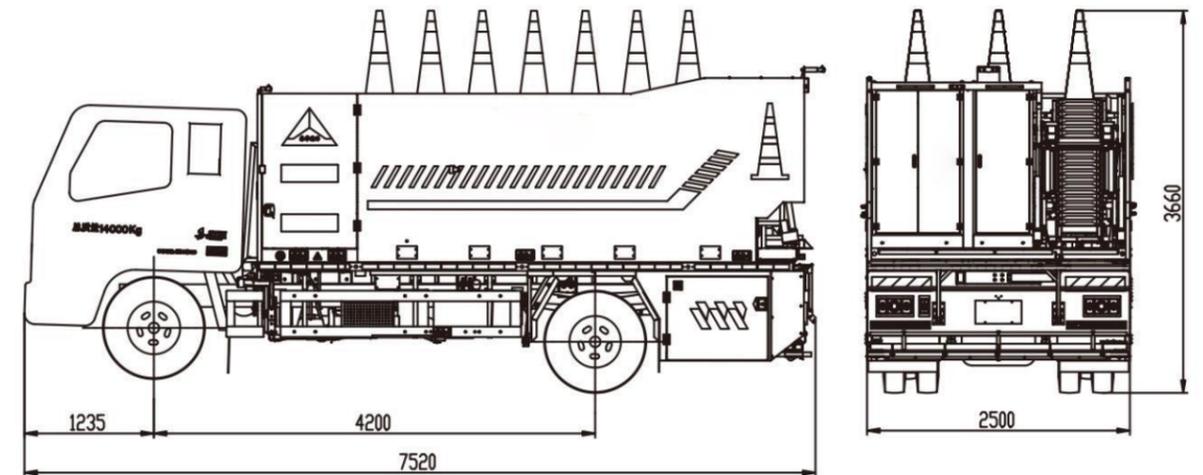


## MAIN TECHNICAL PARAMETERS

ITEM	UNITE	JTC400A
Traffic cone barrel Storage capacity	\	400
Maximum placement speed	km/h	20
Slash retract function	\	Available
Traffic cone barrel model	mm	900 × 440 × 30–60
Chassis	\	BJ5144JQZKPA-03
Maximum net power of chassis engine	kW/r/min	118/3000
Driving form	\	4 × 2
Emission standard	\	National IV
Maximum speed	km/h	80
Shape size (L × W × H)	mm	7520 × 2500 × 3660

## MACHINE OVERALL SIZE

JTC400A



## PRODUCT INTRODUCTION

The traffic cone automatic retracting engineering vehicle is mainly used for the automatic collection and release of the traffic cones used for the separation of the road construction work area, and also for greening pruning and road sweeping rear-end traffic guide cone deployment. The vehicle has the characteristics of high-speed deployment and collection, large storage capacity, high degree of automation, and good maneuverability, which can adapt to construction needs under various road conditions.

## MAIN PERFORMANCE FEATURES

- (1) High-speed deployment, high-speed collection, operating speed is 15–20km/h, which can achieve the 4m spacing deployment required by GB 5768.4.
- (2) Loading 400 traffic cones to meet various construction needs such as daily maintenance, special construction, green pruning and road cleaning.
- (3) The vehicle can be equipped with a construction management system to realize standardized operation and whole process monitoring of maintenance construction, and establish digital files.
- (4) "Curve back, straight line recovery", greatly reducing the failure probability of cone position and posture recognition and recovery.
- (5) 100k anti-collision cushion can be mounted on the back of the vehicle to realize the anti-collision function.

## ALL-TERRAIN RESCUE VEHICLE



## MAIN TECHNICAL PARAMETERS

ITEM	UNITE	EX750
Shape size(L×W×H)	mm	3530×1650×2025
Wheelbase	mm	1945
Rated load	kg	750
Weight	kg	1050
Battery power	Ah	150
Battery type	/	lithium battery
Rated power of single bridge motor	kW	7.5
Full-bridge drive motor power	kW	2×7.5
Driving mode	/	4×4
Tire specifications	Int	27×9-14
Configure tow hitch	L	Hydraulic disc brake
Winch maximum traction	T	2
Maximum speed	km/h	45
Maximum cruising range	km	100
Minimum ground clearance	mm	260
Maximum climb capability	%	70
Maximum drag capacity	kg	1300
Maximum steering angle	°	32
Approach / departure angle	°	60/56

## PRODUCT INTRODUCTION

EX750 all-terrain rescue vehicle is mainly used in fire, earthquake, water area, railway, subway and other rescue fields. The emergency rescue vehicle can be the first person to carry out the rescue operation when the road at the disaster site is washed out and the power is interrupted. It can carry the rescue tools to drive on the rough and muddy road and deliver the rescue tools and rescue personnel to the site as soon as possible.

## MAIN PERFORMANCE FEATURES

- (1) The frame adopts front and rear hinged structure, and the suspension system adopts double A-arm and double damping spring structure;
- (2) All the load-bearing parts are subject to finite element analysis, and all terrain off-road low-pressure vacuum tires are used. The front end is equipped with high-power winch, and the rear end is equipped with boat or trailer hook;
- (3) The drive and electrical system adopts military grade waterproof design, free switching between two-wheel drive and four-wheel drive, and adopts 16 / 32 customized two-speed gearbox with large speed ratio;
- (4) Super large capacity aviation grade high-performance lithium battery, waterproof performance of IP67
- (5) Remote control and 4G video transmission. It controls the lifting of guide wheels for traveling and railway traveling. The LCD display screen of the remote controller can display the speed, ambient temperature, vehicle alarm information, etc.

## MACHINE OVERALL SIZE

