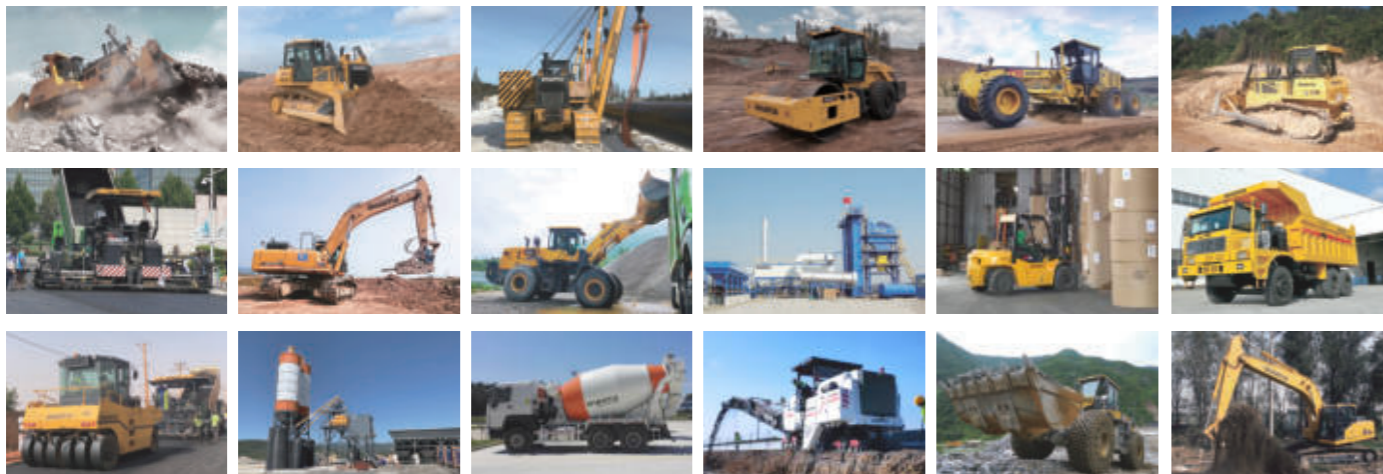


LET'S MAKE CONSTRUCTION EASIER

GROUP PRODUCTS



SHANTUI

DH-M SERIES

Crawler Dozer



Shantui Social

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SHANTUI

LET'S MAKE CONSTRUCTION EASIER

Engine Model: Cummins QSL9 Euro Stage V (DH24-M)
Gross Power: 212(285)/2100 kW/rpm (DH24-M)
Operating Weight: XL: 24,000kg (DH24-M)

Linde Hydrostatic Travel Drive
electronic control

Value that works

SHANTUI FOCUSES ON TECHNICAL INNOVATION AND SUSTAINABLE DEVELOPMENT ALL THE TIME.



Shantui Construction Machinery Co., Ltd. (hereinafter referred to as "Shantui") was formerly established as Yantai Machinery Factory in 1952, and was re-constructed with Jining Machinery Factory, Jining General Machinery Factory and Jining Power Machinery in 1980 as Shandong Bulldozer.

It is a state-owned joint-stock listed company, headquartered in Jining City, Shandong Province, with a total area of more than 2,700mu. Main products include more than ten categories of main engine products such as bulldozer series, road machinery series, concrete machinery series, loader series and excavator series etc., as well as accessories for construction machinery, such as chassis part, drive part and structural part etc. At present, its annual production capacity exceeds 10,000 units of bulldozers, 6,000 units of road machineries, 500 units of concrete mixing plants, 150,000 track assemblies, 1,000,000 wheels for construction machinery, 80,000 units of torque converters and 20,000 transmissions, where the bulldozers have ranked first in global production and sales for 16 consecutive years. Shantui is one of the top 50 manufacturers of construction machinery in the world and one of China's top 500 manufacturers.

Shantui owns a sound sales system and complete sales service network, and its products are sold overseas in more than 160 countries and territories. At present, there are 27 Shantui monopolized stores, 53 agencies and 320 marketing points within the boundary of China. Shantui has more than 100 overseas agents/dealers, as well as more than 10 overseas subsidiaries in the South Africa, United Arab Emirates, Russia, Brazil and the United States. In the aspect of service mode, Shantui aims to "build an enterprise that pays most attention to customers' individual needs and services", and provides customers with integrated construction solutions; and the humanized and intelligent top-quality service help Shantui win customers' praise, thus enhancing brand value of the enterprise.



In recent years, Shantui insists on promoting sustainable development by scientific and technological innovation, and is committed to research in the fields of remote control, intelligent network connection and high-power products etc. for leading the industry forward. In 2019, the world's first 5G remote-controlled high-power bulldozer was commercialized by us, and thus the level of 5G technology application and intelligent manufacturing was further enhanced; China's highest-power bulldozer was successfully delivered to the customer, filling the technology gap of domestic high-power bulldozers and laying the foundation for the localization of high-power bulldozers. Meanwhile, we have obtained partial result in the digital transformation, our intelligent factory built via the 5G network is maturing, the self-designed intelligent production line and assembly testing equipment have been put into operation.

In the future, Shantui Construction Machinery Co., Ltd. will strive to build an international first-class brand of bulldozers, road machinery, loaders, excavators, and concrete machinery, become a leader in new energy and intelligent equipment, and a construction machinery manufacturer with core technology.



Much of Shantui's operations are headquartered in a massive well-organized industrial park in Jining.

| High value and lower machine cost.



High value and lower machine cost.

The M series crawler dozer is the latest generation hydrostatic-drive dozer from SHANTUI. Built of the superiorities of the K series dozer, while using EU Stage V/ EPA Tier 4F engines, state-of-art technologies such as adjustable work-mode and grade assist, the new M series dozer becomes more powerful and intelligent, offering more productivity however with less fuel consumption. M series dozer can be used in landscape, municipal engineering, earth-moving, grading, logging and many other applications.



- Powerful, efficient, and economic performance
- Precise intelligent control system
- Comfortable and safe operating environment
- Easy access and serviceability
- Blade and rear attachments

| High value and lower machine cost.

- Powerful, efficient, and economic performance
- Precise intelligent control system
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- Easy access and serviceability
- Blade and rear attachments

DH20-M



DH24-M



DH36-M



DH46-M



Powerful, efficient and economic performance

To give our customers more value, we focused on the crucial characteristic of efficiency, economy, intelligence, and environmental-protection when designing the M series dozers. With SCR technology built in diesel engines and dual hydrostatic driving systems that are automatically controlled by an intelligent, well harmonized program, the M series dozers have excellent performance while consuming minimal fuel. Whether you're working with heavy loads or delicate precise blade operations, the M series dozers can do the job to your needs.

OPTIONAL WORK MODES

STANDARD MODE:

a balance between power and economy;

POWER MODE:

provides higher power, for heavy load conditions;

ECONOMY MODE:

engine operates at lower-speed range, fuel consumption reduced by up to 20 percent; engine speed can automatically increase when more power is needed. Use this mode with medium-load conditions.

ASSISTANT GRADING SYSTEM

Helps the operator achieve the wanted slope rapidly and accurately with less back and forth while doing fine grading, improving work quality and efficiency. The blade angle and tilt are displayed on the monitor in real time to help the operator know the current blade condition, allowing the best blade-control operation.

Intelligent hydrostatic transmission system

PRECISE CONTROL AND HIGH EFFICIENCY ARE THE MAIN CHARACTERISTICS OF OUR HYDROSTATIC TRANSMISSION SYSTEM

Smooth starting, no harsh impact when shifting, steering, or reversing.

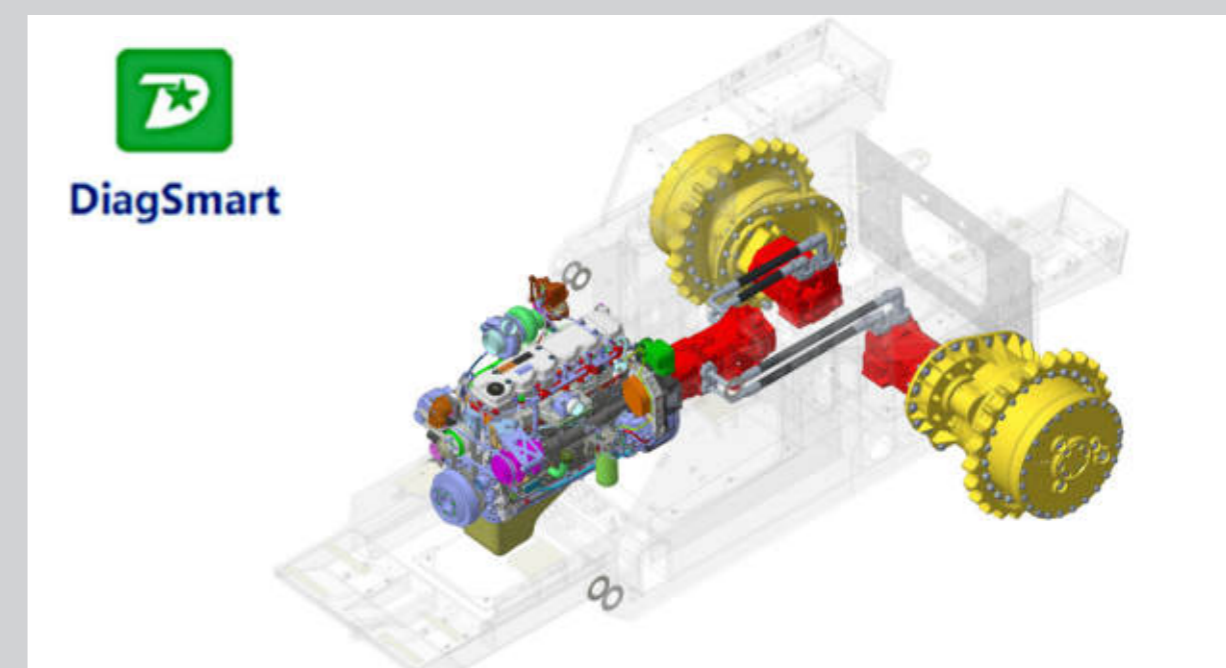
From zero to maximum the speed is smooth infinitely variable. The operator only needs to set the maximum required speed, the control program will adjust the displacement of the hydraulic drive motor and pump automatically to prevent the engine from being overloaded. For different work conditions, the dozer can adjust itself to a suitable speed automatically. These features can increase productivity and reduce the fuel consumption.

Speed and running direction of both side track can be controlled individually, so you can turn and counter turn the dozer in any direction. Power turns with load can also be achieved, allowing the operator to operate with more flexibility and efficiency when working in narrow environment.

Intelligent hydrostatic transmission system

PRECISE CONTROL AND HIGH OVERALL EFFICIENCY ARE THE MAIN CHARACTERISTICS OF OUR HYDROSTATIC TRANSMISSION SYSTEM.

Linde controllers of the Wise-series are determined through their robust mechanical and electrical designing. Key components are the function and safety controller. Wise controllers are used standalone or in combination for electro-hydraulic systems. Beside the hydraulic components a variety of control inputs such as joysticks, pedals as well as the combustion engine and safety switches can be included in the overall control concept. Through economic operation modes and increased user friendliness a better power utilization as well as reduced fuel consumption and emissions can be achieved.



DiagSmart Software for set up and diagnostics.

CHARACTERISTICS

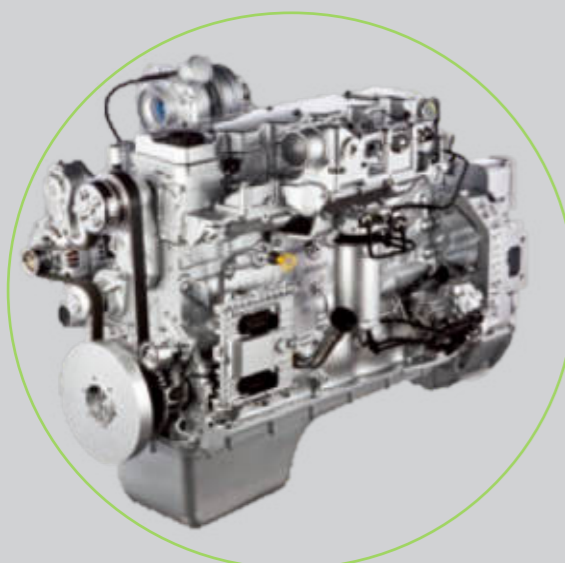
- compatible with Linde Hydraulics electronic controls
- suited for PC /laptop with Windows operating system with serial or USB interface
- operated by mouse, keyboard
- diagnostics
- documentation and reporting
- harness checking
- parameterization
- "Teach in" of components
- data logger
- electronic box restorable to factory reset

PRODUCT ADVANTAGES

- optimum system usage by teach-in function
- error prevention through continual comparison and documentation of the variance
- user-friendly software up-dating ("flashing")
- easy usage by self-explanatory user surface
- large letters and buttons offer optimum use even with the machine running
- self-adapting screen size
- multi-lingual, up to 10 languages can be programmed
- documentation exportable into MS Office
- practical-minded partition of control elements by functional groups
- modular set-up: individual functions can be added optionally

FPT electronic control diesel engine

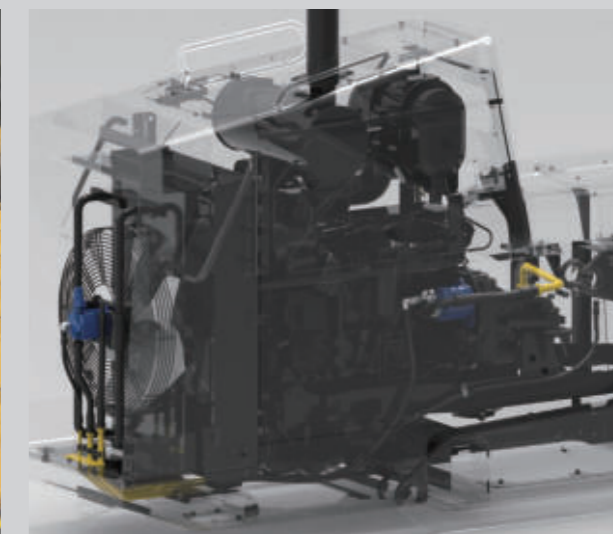
FPT has leading experience in production design with heavy diesel engine manufacturing. Their NEF series engines have many reliable technologies such as an integrated turbocharged, direct injection with air-to-air aftercooling. FPT NEF series engines achieve the EPA Tier 4 Final / EU Stage V emissions standards to minimized noise and vibration, with excellent performance, fuel economy and durability.



- Increase vehicle productivity due to better transient response
- No additional turbocharger's complexity, but performance in line with FPT industrial competitors
- Low operating costs due to low engine wear and long maintenance intervals (up to 600h depending on the working environment)
- Lean engine design and state-of-the-art HI-eSCR after-treatment system provides flexibility for easy installation
- Lean technology improving durability and reliability
- No additional cooling system requirements compared to the Tier 3 & Tier 4i models

Integrated aluminum heat exchanger

M-series dozers heat exchangers use large fin spacing design which prevents the accumulation of dust, and improves cooling efficiency and durability. The heat exchanger is installed behind a high heavy-duty grill which protects it from being damaged while dozing.



CUMMINS electronic control diesel engine



For equipment manufacturers, the Cummins Tier 4 Final / EU Stage V package provides a fully integrated air-intake-to-exhaust aftertreatment system designed to minimize space and maximize output.

For optimized performance Cummins uses a combination of different Tier 4 Final / Stage V Technologies across different power bands, ensuring the best result for every application. The technology approach is incremental, where the right usage of diesel oxidation catalyst, selective catalytic reduction or diesel particulate filter technology allows Cummins to meet these stringent standards whilst delivering performance and packaging benefits to the customer.

Cummins has vast experience in exhaust aftertreatment, with all solutions designed and built in house by Cummins Emission Solutions. Knowledge and experience with the diesel particulate filter positions Cummins well for any future emissions regulations which would most likely call for particulate level counting.

Hydraulic fan system

The cooling fan is driven by a hydraulic motor which controls the fan speed. The fan speed is adjusted automatically by an electronic intelligent control program based on the temperature of engine inlet coolant, engine intake air and hydraulic oil. The higher the temperature the faster the fan goes. The fan always rotates at the minimum needed speed. Compared with the traditional belt-drive fan, the hydraulic fan system consumes less power which greatly improves fuel efficiency and at the same time, fan noise is reduced because of lower fan speed.

An optional hydraulic reversing fan offers automatic or manual modes for changing direction to blow debris out of the radiator cores.

| Precise intelligent control system

M series dozers use state-of-the-art intelligent control and display systems to provide the optimal interaction with the operators. It's so convenient, only simple manipulation is required for efficient operation, the operator can just get to work with no need for extra costs for additional training.

The travelling system and blade control system are individually controlled by their own joystick.

The engine speed decelerator pedal and brake function are integrated by one foot pedal.

Blade response rate, steering response rate and the deceleration modes can be set by the operator for his preference anytime during operation.

These intelligent control function gives more productivity and more comfortable operation experiences.

HAND-CONTROL SYSTEM

The left-hand joystick is used to steer the machine in any directions and move the machine forward or backward. The thumb wheel is used to shift the machine to high or low speed. The speed pre-set button and horn button is located at the top of the joystick.

The right-hand joystick is used to control the blade position; up, down, float, tilt, and angle.

Both joysticks are ergonomic designed for the most comfortable operation experience while still providing efficient output.

INTEGRATED FOOT PEDAL

Engine deceleration and brake function are integrated on one pedal.

Two pedal modes are available and the operator can easily choose either one through program on the display.

Deceleration mode: Depress the pedal to decrease the engine speed and at the same time the machine speed will decrease, when the pedal is fully depressed the brake function gets engaged and the machine will stop.

Transmission mode: Depress the pedal to decrease the machine speed, but the engine speed will remain constant, depress the pedal fully to engage the brake function. Under this mode, the dozer will still have enough power when the machine speed is decreased.



MULTI-MODE CONTROL SYSTEM

With multi-mode control system, the operator can set the control mode of many functions to his preference of operation through an interactive monitor. This system will bring you more productivity with comfortable operation.

Steer mode: The three steering modes are aggressive, standard, and gentle. Under these different modes, the dozer has different response ratios to the steering joystick operation.

ADDITIONAL SAFETY CONTROL FUNCTIONS

Load-sensing seat, the dozer will stop automatically and all operation functions will stop, if the operator leaves the seat, his will assure safety.

The brake function will be automatically engaged three seconds later, when the left joystick for travelling and steering is put in the neutral position.

Optional rear camera is available as an optional appliance instead of a rear-view mirror.

The operator can observe a clearer and instinctive view about the rear condition of the machine during operating through an LCD screen.





Safe and Comfortable operating experience

With ergonomics in mind, the M Series Dozer cabs provide a friendly and comfortable environment for operators, reducing fatigue when operating for a long time, helping you work more efficiently and productively.

The spacious cab offers all-day comfort with wider door way and large front screen can offer excellent visibility to the blade, the tracks, and the working area to help operators to work at ease. The integrated FR (Fops & ROPS) cab structure can assure operator safety and has high rigidity and superb sealing performance which greatly reduce noise and vibration and keep dust from entering the cab. Retractable seat belt, slip resistant floor mat and convenient grab handles assists the operator safety.

The M-series seat features for increased operator comfort and reduced operator fatigue. Comfortable fabric, high-back air-suspension seat with adjustable head and back rests are standard. The seat is fully adjustable and designed for comfort and support. The seat and back cushions are thicker and designed to reduce pressure on the lower back and thighs while allowing unrestricted arm and leg movement. Standard with AM/FM/MP3 radio and USB interface.

The cab also has a 12-volt electrical outlet for charging a mobile phone.

The dash is fitted with a high resolution 7-inch LCD instrument display with anti-glare full color screen. The friendly interface developed by Shantui can accurately read real time system temperatures, pressures, forward and reverse directions and speeds. Different languages preferences and a choice of metric and SAE settings can be selected. Easy to read gauges keep operator informed of system conditions. The function keys simplify multi-functions to conveniently inform you at any time you need the machine information.

Highly efficient air conditioning system has numerous directional outlet vents to keep the view clear and the cab comfortable. The rotary control panel is convenient to operate.

Blade and rear attachments

Selecting the appropriate attachments will bring higher output to the machine. The Variable Power Angle Tilt blade (VPAT) is standard with all M series dozers. Optional attachments are three-shank parallelogram ripper, or winch. A dual control package makes it simple to utilize either a ripper or winch. Ask your SHANTUI dealer for available options to help you optimize your machine for the correct options.

- PURPOSE-BUILT TO IMPROVE PRODUCTIVITY AND DURABILITY, SHANTUI VPAT BLADE GIVES YOU THE WIDTH AND CAPACITY TO MOVE MATERIAL, AS WELL AS THE FINESSE YOU NEED FOR SMOOTH FINISH GRADES. FOLDABLE VPAT OPTION AVAILABLE FOR NARROWER TRANSPORT WIDTH.
- CLOSED-CELL BLADE DESIGN AND FABRICATED, BOX-SECTION C-FRAME PROVIDES MAXIMUM TORSIONAL TOUGHNESS AND OPTIMAL ABSORPTION OF FORCES. AND USING WEAR-RESISTING MATERIAL IN FRONT OF THE BLADE CAN PROLONG THE DURABILITY AND RELIABILITY.
- CUTTING EDGE& END BIT ARE REDESIGNED TO PROVIDE EXCEPTIONAL BALANCE BETWEEN FINE/LIGHT DOZING AND AGGRESSIVE HEAVY MATERIAL MOVEMENT.
- CYLINDER GUARDS KEEP HYDRAULIC HOSES AND CYLINDERS OUT OF DANGER.



Rigid and reliable drawbar is a standard configuration to meet your various dragging demands.



Four forward and two rear high-intensity LED work lights are positioned high for nearly 360° superior illumination to extend your workday beyond daylight.



Optional folded blade of DH13M, DH16M, DH20M for easy transport



For landfill work, anything that could be susceptible to damage has been sealed, rerouted, or reengineered to help deliver the productivity and ensure maximum uptime.



Three-shank aggressive parallelogram ripper lets you do more productive ripping work. The parallel linkage design provides better penetration and maneuverability in tight working areas.



Hydraulic winch can be used for self-rescue, equipment recovery, logging, or other maneuvers. The SHANTUI hydraulic winch features excellent line pull at any speed and infinitely variable drum speed.

Easy access and serviceability

Preventative maintenance is the best way to ensure long running life from your equipment. That's why SHANTUI designed the M series with conveniently located maintenance points and self-diagnostic functions to make necessary inspections and maintenance quick and easy.

We provide clear and easy-to-understand instructions and process to help you make maintenance and repair more easily.

Hinged engine side shields swing open wide for convenient access to dipsticks, fill tubes, batteries, master electrical shutoff, the backside of the cooler, and engine, transmission, and hydraulic filters. Vertical filters allow quick, no-spill changes.

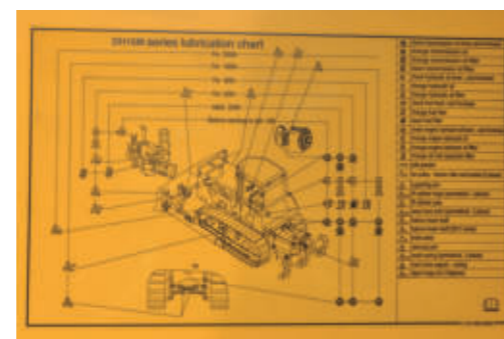
All the filters' operation and status of engine, hydraulics, and transmission are indicated with wise and on-screen displays. The diagnostic monitor also provides easy-to-understand messages that help speed troubleshooting.

Centralized pressure test ports for quick testing and troubleshooting of the hydraulic system. Clear identification brings convenience of troubleshooting and helps reduce downtime.

Modular design allows the components to be easily accessed, removed, and installed without spilling oil. This can further help reduce downtime and enhance serviceability.

High-speed rotation, high temperature and other hazardous components are designed with shields, insulation boards, or insulation sets; automatic parking braking function, handrails and anti-skid pedals ensure your complete safety during operating and maintenance. Speakers, reversing alarm, fluorescent signs and clear machine painting, effectively help protect the safety of external personnel and enhance the security of all-weather operations.

Our service network provides excellent standard services and extended service options, after-sales service through our training agents and professional engineers for your equipment to provide uninterrupted technical support.



DH10M SPECIFICATIONS

ENGINE		
Model	Cummins QSF3.8	
Emission	Tier 4(f),EU Stage V	
Rated revolution	2200rpm	
Gross power	90W(121hp)	
Net power	79.4kW(106.5hp)	
Displacement	3.8L(232cu.in)	
Max. torque	500Nm(369lb.-ft.)/1500rpm	
DRIVE SYSTEM		
Drive system	Independent dual-circuit electric control hydrostatic drive, intelligent matching of speed-load	
System overflow pressure	42500KPa(6162.5psi)	
Traveling speed	Forward	0~9km/h(5.6mph)
	Reverse	0~9km/h(5.6mph)
Max. theoretical traction force	160.4kN(353.62lb.)	
Steering	Independent drive of track at both sides to ensure the full power output for pivot steering and steering with load	
Brake	Regular closed multi-disk brake	
Final drive	Primary spur gear + primary planetary reduction	
UNDERCARRIAGE	XL	LGP
Type	Pivot + balance beam semi-rigid suspension structure	
Track shoe type	Single grouser	Single grouser
Track gauge	1690mm(66.5in.)	1830mm(72.1in.)
Width of track shoe	460mm(18in.)	630mm(25in.)
Track grounding length	2320mm(91in.)	2320mm(91in.)
Track grounding area	21344cm ² (3308sq.in.)	29232cm ² (4531sq.in.)
Number of track shoe	39	39
Grounding pressure	46.1kPa(6.69psi)	35.2kPa(5.11psi)
Number of carrier roller	2 pcs/side	2 pcs/side
Number of track roller	7 pcs/side	7 pcs/side
Pitch	171.45mm(6.75in.)	171.45mm(6.75in.)
VOLUME	XL	LGP
Fuel capacity	186L(49gal.)	186L(49gal.)
Coolant liquid capacity	25L(6.6gal.)	25L(6.6gal.)
Engine oil capacity	15L(4gal.)	15L(4gal.)
Hydraulic oil tank	54L(14gal.)	54L(14gal.)
Final drive, XL	5.8L(1.53gal.)	5.8L(1.53gal.)
Final drive, LGP	5.8L(1.53gal.)	5.8L(1.53gal.)
OPERATING WEIGHT	XL	LGP
Operating weight (Traction frame)	9850kg(21715lb.)	10300kg(22708lb.)
Operating weight (Ripper)	10550kg(23259lb.)	11000kg(24251lb.)
BLADE	XL	LGP
Blade type	PAT	PAT
Blade capacity	2.4m ³ (3.14cu.yd.)	2.7m ³ (3.53cu.yd.)

DIMENSION		XL	LGP
A	Machine height	2885mm(114in.)	2885mm(114in.)
B	Track grouser height	50mm(2.0in.)	50mm(2.0in.)
C	Ground clearance	340mm(13.4in.)	340mm(13.4in.)
D	Machine length (with draw bar)	4442mm(175in.)	4442mm(175in.)
E	Machine length (without draw bar)	4427mm(174in.)	4427mm(174in.)
F	Max. lifting height of blade	900mm(35in.)	900mm(35in.)
G	Max. digging depth of blade	450mm(17.7in.)	450mm(17.7in.)
H	Digging angle of blade	55°±3°(deg.)	55°±3°(deg.)
I	Blade width	2860mm(113in.)	3200mm(126in.)
J	Blade height	1151mm(45.3in.)	1151mm(45.3in.)
K	Max blade turning angle on ground	25°(deg.)	25°(deg.)
L	Machine width when blade in max turning angle	2633mm(104in.)	2941mm(116in.)
M	Max tilt height of blade	415mm(16in.)	458mm(18in.)
N	Vertical distance from left track shoe outside to blade outside when blade in max turning angle	50mm(2.8in.)	50mm(2.8in.)
O	Track shoes outside width	2110mm(83in.)	2420mm(95in.)
P	Vertical distance from right track shoe outside to blade outside when blade in max turning angle	433mm(18in.)	453mm(18in.)



PARAMETER OF RIPPER(THREE-SHANK RIPPER)		
Q	Max. ripping depth	340 mm(13.4 in.)
R	Max. lifting height	440 mm(17.3 in.)
S	Ripper length (at deepest ripping)	1366 mm(53.8 in.)
S'	Ripper width	972 mm(38.3 in.)
T	Departure angle (at highest lifting)	1766 mm(69.5 in.)
V	Ripping width	1696 mm(66.8 in.)
W	Distance between ripper teeth	800 mm(31.5 in.)



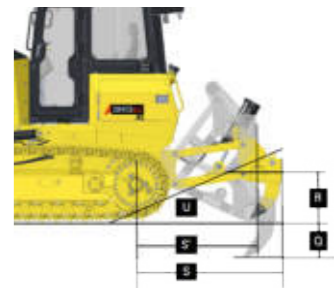
DH13M SPECIFICATIONS

ENGINE		
Model	FIAT N45	
Emission	EPA Tier4 Final / EU Stage V	
Rated revolution	2200rpm	
Gross power	125 kW(167hp)	
Net power	114 kW(152hp)	
Number of cylinder-bore × stroke	4-104 mm-132 mm	
Displacement	4.5L	
Max. torque	710 Nm/1500 rpm	
Min. fuel consumption	205 g/kw.h	
Cooling system	Smart hydraulic control	
DRIVE SYSTEM		
Drive system	Independent dual-circuit electric control hydrostatic drive, intelligent matching of speed-load	
System overflow pressure	42500 KPa	
Traveling speed	Forward	0~10 km/h
	Reverse	0~10 km/h
Max. theoretical traction force	212 kN	
Steering	Independent drive of track at both sides to ensure the full power output for pivot steering and steering with load	
Brake	Regular closed multi-disk brake	
Final drive	Primary spur gear + primary planetary reduction	
UNDERCARRIAGE		
	XL	LGP
Type	Pivot + balance beam semi-rigid suspension structure	
Track shoe type	Single grouser	Single grouser
Track gauge	1930 mm	2150 mm
Width of track shoe	560 mm	760 mm
Track grounding length	2640 mm	2640 mm
Track grounding area	29568 cm ²	40128 cm ²
Number of track shoe	40 pcs/single side	40 pcs/single side
Grounding pressure	46.3 kPa	35.6 kPa
Number of carrier roller	2 pcs/side	2 pcs/side
Number of track roller	7 pcs/side	7 pcs/side
Pitch	190 mm	190 mm
Minimum turning radius	3468 mm	3543 mm
VOLUME		
Fuel capacity	263 L	
Coolant liquid capacity	29 L	
Engine oil capacity	11 L	
Hydraulic oil tank	66 L	
Final drive	19 L/Single side	
DEF capacity	43 L	
OPERATING WEIGHT		
	XL	LGP
Operating weight (Traction frame)	13700 kg	14300 kg
Operating weight (Ripper)	14900 kg	-
Operating weight(Winch)	14700 kg	15300 kg
BLADE		
	XL	LGP
Blade type	PAT	PAT
Blade capacity	3.0 cu.m	3.36 cu.m

DIMENSION		XL	LGP
A	Machine height	3043 mm	3043 mm
B	Track grouser height	50 mm	50 mm
C	Ground clearance	360 mm	360 mm
D	Machine length (with draw bar)	5010 mm	5010 mm
E	Machine length (without draw bar)	4958 mm	4958 mm
F	Max. lifting height of blade	950 mm	950 mm
G	Max. digging depth of blade	460 mm	460 mm
H	Digging angle of blade	55°±3°(deg.)	55°±3°(deg.)
I	Blade width	3300 mm	3680 mm
J	Blade height	1308 mm	1308 mm
K	Max blade turning angle on ground	25°(deg.)	25°(deg.)
L	Machine width when blade in max turning angle	2989 mm	3334 mm
M	Max tilt height of blade	498 mm	560 mm
N	Vertical distance from left track shoe outside to blade outside when blade in max turning angle	44 mm	6.5 mm
O	Track shoes outside width	2490 mm	2910 mm
P	Vertical distance from right track shoe outside to blade outside when blade in max turning angle	455 mm	417 mm



PARAMETER OF RIPPER(THREE-SHANK RIPPER :1035 kg)		
Q	Max. ripping depth	500 mm
R	Max. lifting height	600 mm
S	Ripper length (at deepest ripping)	1530 mm
S'	Ripper width	1230 mm
T	Departure angle (at highest lifting)	1759 mm
U	Tilt angle(at highest point)	43°(deg.)
V	Ripping width	1696 mm
W	Distance between ripper teeth	800 mm



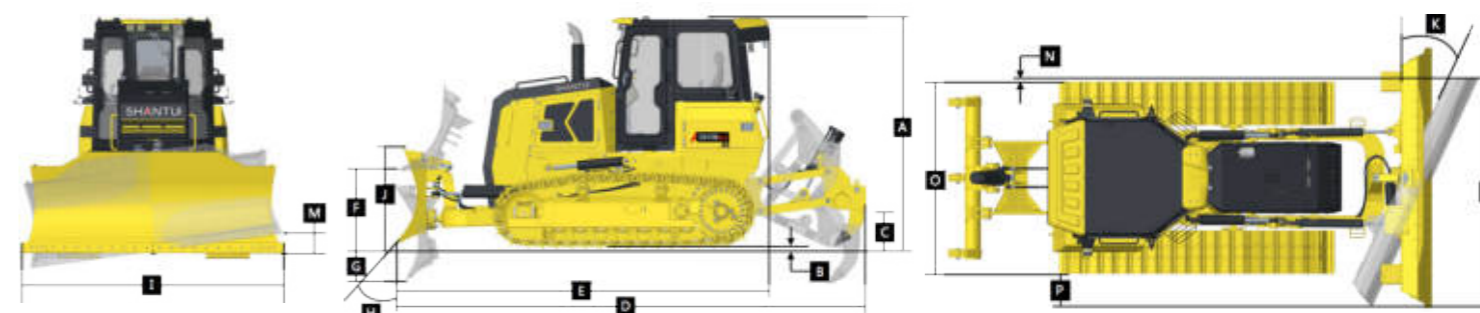
WINCH PARAMETERS (HYDRAULIC WINCH (H5C): 998 kg)	
Diameter of steel rope	16 mm/ 19 mm/ 22 mm
Maximum rope capacity of drum	128.9 m/ 90.8 m/ 65.5 m
Maximum tension(Bare drum)	28190 kg
Maximum tension(Full drum)	15190 kg
Maximum speed of the rope(Bare drum)	13.6 m/min
Length of winch	780 mm

* The specifications are subject to change without notice. The pictures may include options. The actual color & appearance of the product may differ from what is shown.

DH16M SPECIFICATIONS

ENGINE		
Model	FIAT N67	
Emission	EPA Tier4 Final / EU Stage V	
Rated revolution	2100 rpm	
Gross power	151 kW(202hp)	
Net power	138 kW(185hp)	
Number of cylinder-bore x stroke	6-104 mm-132 mm	
Displacement	6.7L	
Max. torque	850 Nm/ 1400 rpm	
Min. fuel consumption	194 g/kw.h	
Cooling system	Smart hydraulic control	
DRIVE SYSTEM		
Drive system	Independent dual-circuit electric control hydrostatic drive, intelligent matching of speed-load	
System overflow pressure	42500 KPa	
Traveling speed	Forward 0-10 km/h Reverse 0-10 km/h	
Max. theoretical traction force	230 kN	
Steering	Independent drive of track at both sides to ensure the full power output for pivot steering and steering with load	
Brake	Regular closed multi-disk brake	
Final drive	Primary spur gear + primary planetary reduction	
UNDERCARRIAGE		
	XL	LGP
Type	Pivot + balance beam semi-rigid suspension structure	Pivot + balance beam semi-rigid suspension structure
Track shoe type	Single grouser	Single grouser
Track gauge	2040 mm	2350 mm
Width of track shoe	560 mm/610 mm	810 mm
Track grounding length	3075 mm	3075 mm
Track grounding area	34440/ 37515 cm ²	49815 cm ²
Number of track shoe	43 pcs/single side	43 pcs/single side
Grounding pressure	50 kPa/ 45.9 kPa	36.9 kPa
Number of carrier roller	2 pcs/side	2 pcs/side
Number of track roller	8 pcs/side	8 pcs/side
Pitch	203 mm	203 mm
Minimum turning radius	3879 mm	4012 mm
VOLUME		
Fuel capacity	389 L	
Coolant liquid capacity	29 L	
Engine oil capacity	14 L	
Hydraulic oil tank	115 L	
Final drive	31L/single side	
DEF capacity	43L	
OPERATING WEIGHT		
	XL	LGP
Operating weight (Traction frame)	17665 kg	18830 kg
Operating weight (Ripper)	19190 kg	20375 kg
Operating weight (Winch)	19740 kg	-
BLADE		
	XL	LGP
Blade type	PAT	PAT
Blade capacity	3.22 cu.m	4.01 cu.m

DIMENSION		XL	LGP
A	Machine height	3180 mm	3180 mm
B	Track grouser height	65 mm	65 mm
C	Ground clearance	370 mm	370 mm
D	Machine length (with draw bar)	5800 mm	5800 mm
E	Machine length (without draw bar)	5545 mm	5545 mm
F	Max. lifting height of blade	1028 mm	1028 mm
G	Max. digging depth of blade	642 mm	642 mm
H	Digging angle of blade	55°-60°(deg.)	55°-60°(deg.)
I	Blade width	3300 mm	4011 mm
J	Blade height	1387 mm	1387 mm
K	Max blade turning angle on ground	24°(deg.)	24°(deg.)
L	Machine width when blade in max turning angle	3020 mm	3664 mm
M	Max tilt height of blade	435 mm	528 mm
N	Vertical distance from left track shoe outside to blade outside when blade in max turning angle	-	38.5 mm
O	Track shoes outside width	2600 mm	3160 mm
P	Vertical distance from right track shoe outside to blade outside when blade in max turning angle	421 mm	466 mm



PARAMETER OF RIPPER (THREE-SHANK RIPPER :1493kg)

Q	Max. ripping depth	492 mm
R	Max. lifting height	572 mm
S	Ripper length (at deepest ripping)	1785 mm
S'	Ripper width	1298 mm
T	Departure angle (at highest lifting)	2082 mm
U	Tilt angle(at highest point)	43°(deg.)
V	Ripping width	1900 mm
W	Distance between ripper teeth	950 mm



WINCH PARAMETERS (HYDRAULIC WINCH (H6H): 2143kg)

Diameter of steel rope	22/25 mm
Maximum rope capacity of drum	91/70 m
Maximum tension(Bare drum)	40733 kg
Maximum tension(Full drum)	23420 kg
Maximum speed of the rope(Bare drum)	18 m/min
Length of winch	1439 mm

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DH20M SPECIFICATIONS

ENGINE		
Model	Cummins QSL9	
Emission	EPA Tier4 Final / EU Stage V	
Rated revolution	2050 rpm	
Gross power	186 kW(249hp)	
Net power	165 kW(221hp)	
Number of cylinder-bore × stroke	6-114 mm-145 mm	
Displacement	8.9 L	
Max. torque	1085 N.m/ 1400 rpm	
Cooling system	Smart hydraulic control	
DRIVE SYSTEM		
Drive system	Independent dual-circuit electric control hydrostatic drive, intelligent matching of speed-load	
System overflow pressure	46500 KPa	
Traveling speed	Forward	0~11 km/h
	Reverse	0~11 km/h
Max. theoretical traction force	368 kN	
Steering	Hydraulic motor differential steering, in-place steering, with load steering	
Brake	Regular closed multi-disk brake	
Final drive	Primary spur gear + primary planetary reduction	
UNDERCARRIAGE		
Type	Pivot + balance beam semi-rigid suspension structure	
Track shoe type	Single grouser	
Track gauge	2430 mm	
Width of track shoe	610 mm(Standard)	
Track grounding length	3285mm	
Track grounding area	40077 cm ²	
Number of track shoe	45	
Grounding pressure	54.3 kPa	
Number of carrier roller	2/side	
Number of track roller	8/side	
Pitch	203.2 mm	
Minimum turning radius	4192 mm	
VOLUME		
Fuel capacity	444 L	
Urea tank capacity	49.2 L	
Coolant liquid capacity	40 L	
Engine crankcase and oil filter capacity	25 L	
Hydraulic oil tank	115 L	
Final drive, XL/side	46 L	
OPERATING WEIGHT		
Operating weight (Traction frame)	22206 kg	
Operating weight (Ripper)	24076 kg	
Operating weight(Winch)	-	
BLADE		
Blade type	PAT	
Blade capacity	5.0 m ³	

DIMENSION		XL	XW
A	Machine height	3246 mm	3246 mm
B	Track grouser height	65 mm	65 mm
C	Ground clearance(without truck tooth)	410 mm	410 mm
D	Machine length (with draw bar)	5909 mm	5909 mm
E	Machine length (without draw bar)	5909 mm	5909 mm
F	Max. lifting height of blade	1060 mm	1060 mm
G	Max. digging depth of blade	700 mm	700 mm
H	Digging angle of blade	55°±3°	55°±3°
I	Blade width	4079 mm	4079 mm
J	Blade height	1320 mm	1320 mm
K	Max blade turning angle on ground	25°(deg.)	25°(deg.)
L	Machine width when blade in max turning angle	3702 mm	3702 mm
M	Max tilt height of blade	470 mm	470 mm
N	Vertical distance from left track shoe outside to blade outside when blade in max turning angle	79 mm	29 mm
O	Track shoes outside width	3040 mm	3140 mm
P	Vertical distance from right track shoe outside to blade outside when blade in max turning angle	583 mm	533 mm
	Min turning radius	4192 mm	4192 mm



PARAMETER OF RIPPER (THREE-SHANK RIPPER :1493kg)

Q	Max. ripping depth	492 mm
R	Max. lifting height	572 mm
S	Ripper length (at deepest ripping)	1785 mm
S'	Ripper width	1298 mm
T	Departure angle (at highest lifting)	2082 mm
U	Tilt angle(at highest point)	43°(deg.)
V	Ripping width	1900 mm
W	Distance between ripper teeth	950 mm



WINCH PARAMETERS (HYDRAULIC WINCH (H6H): 2143kg)

Diameter of steel rope	22/25 mm
Maximum rope capacity of drum	91/70 m
Maximum tension(Bare drum)	40733 kg
Maximum tension(Full drum)	23420 kg
Maximum speed of the rope(Bare drum)	18 m/min
Length of winch	1439 mm

DH24M SPECIFICATIONS

ENGINE	
Model	Cummins QSL9
Emission	EPA Tier 4 Final / EU Stage V
Rated revolution	2000rpm
Gross power	213 kW(286hp)
Net power	190 kW(255hp)
Number of cylinder-bore × stroke	6-114 mm-145 mm
Displacement	8.9L
Max. torque	1636 N.m/ 1100 rpm
Cooling system	Smart hydraulic control

DRIVE SYSTEM		
Drive system	Independent dual-circuit electric control hydrostatic drive, intelligent matching of speed-load	
System overflow pressure	46500 KPa	
Traveling speed	Forward	0~11 km/h
	Reverse	0~11 km/h
Max. theoretical traction force	368 kN	
Steering	Independent drive of track at both sides to ensure the full power output for pivot steering and steering with load	
Brake	Regular closed multi-disk brake	
Final drive	Primary straight gear + Primary planetary gear reduction	

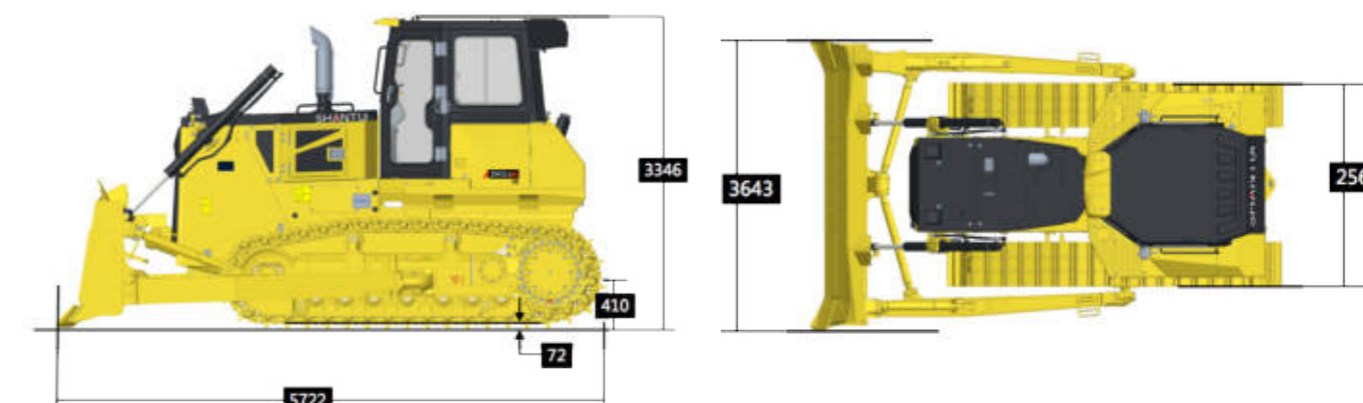
UNDERCARRIAGE	XL	LGP
Type	Pivot + balance beam semi-rigid suspension structure	
Track shoe type	Single grouser	Single grouser
Track gauge	2000 mm	2250 mm
Width of track shoe	560 mm	910 mm
Track grounding length	3050 mm	3482 mm
Track grounding area	34160 cm ²	63372 cm ²
Number of track shoe	41	45
Grounding pressure	67 kPa	40.5 kPa
Number of carrier roller	2/side	2/side
Number of track roller	7/side	8/side
Pitch	216 mm	216 mm
Minimum turning radius	4210 mm	4319 mm

VOLUME	
Fuel capacity	488 L
Urea tank capacity	49.2 L
Coolant liquid capacity	41 L
Engine crankcase and oil filter capacity	25 L
Hydraulic oil tank	180 L
Final drive, XL/side	37 L

OPERATING WEIGHT	XL	LGP
Operating weight (Traction frame)	23562 kg	24823 kg
Operating weight (Ripper)	26209 kg	-

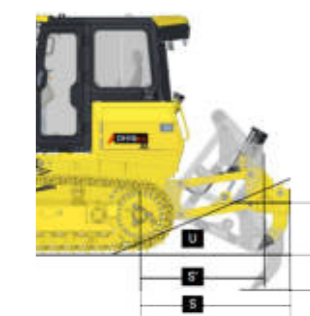
BLADE	XL	LGP
Blade type	Semi U	Straight-tilt blade
Blade capacity	6.5 m ³	6.4 m ³

DIMENSION	XL	LGP
A Machine height	3362 mm	3362 mm
B Track grouser height	72 mm	123 mm
C Ground clearance(without truck tooth)	450 mm	450 mm
D Machine length (with ripper)	7160 mm	7160 mm
E Machine length (with draw bar)	5940 mm	6097 mm
F Max. lifting height of blade	1247 mm	1300 mm
G Max. digging depth of blade	540 mm	550 mm
H Digging angle of blade	52°±3°	52°±3°
I Blade width	3642 mm	4365 mm
J Blade height	1580 mm	1400 mm
Blade tilt height	840 mm	680 mm
K Track length on ground	3050 mm	3482 mm
O Track shoes outside width	2560 mm	3160 mm
Min turning radius	4210 mm	4319 mm



PARAMETER OF RIPPER (THREE-SHANK RIPPER :2646.4kg)

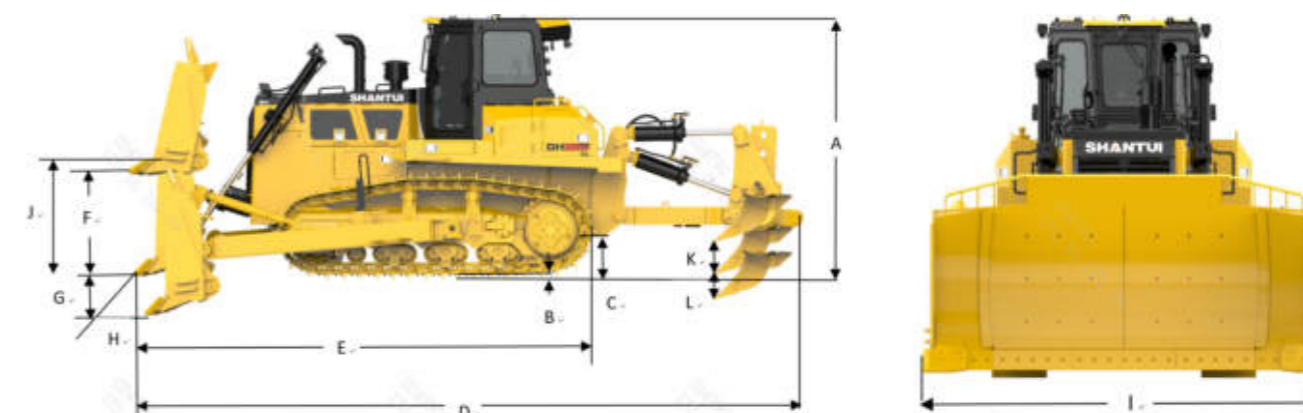
Q Max. ripping depth	655 mm
R Max. lifting height	567 mm
S Ripper length (at deepest ripping)	1882 mm
S' Ripper width	1547 mm
T Departure angle (at highest lifting)	2246 mm
U Tilt angle(at highest point)	16.35°(deg.)
V Ripping width	2000 mm
W Distance between ripper teeth	1000 mm



DH36M SPECIFICATIONS

ENGINE	
Model	Cummins QSX 12
Rated speed	2100rpm
Gross power	298kW(400hp)
Net power	268kW(359hp)
Emission	U.S. EPA T4F, EU Stage V
Displacement	11.8L
Max. torque	1969N.m/1400rpm
Cooling system	Smart hydraulic control
DRIVE SYSTEM	
Drive system	Independent dual-circuit electric control hydrostatic drive, intelligent matching of speed-load
System overflow pressure	420 bar
Travel speed, F	0~11km/h(6.8mph)
Travel speed, R	0~11km/h(6.8mph)
Max. theoretical traction force	543kN
Steering	Independent drive of track at both sides to ensure the full power output for pivot steering and steering with load
Brake	Regular closed multi-disk brake
Final drive	Primary spur gear + primary planetary reduction
UNDERCARRIAGE	
Type	Pivot+balance beam semi-rigid suspension structure
Track shoe type	Single grouser
Track gauge	2140mm
Width of track shoe	560/660/710mm
Track grounding length	3275mm
Track grounding area	43230cm ²
Number of track shoe	40
Grounding pressure (standard configuration)	114kPa
Number of carrier roller	2pcs/single side
Number of track roller	7pcs/single side
Pitch	228.6mm
REFILL CAPACITY	
Fuel tank	600L
Urea tank capacity	63.8L
Coolant liquid capacity	29L
Engine oil	34.1L
Hydraulic oil tank	215L
Final drive	35L/single side

OPERATING WEIGHT	
With ripper	42000kg
Without ripper	39000kg
BLADE	
Blade type	Semi-U
Blade capacity	10.5 m ³
DIMENSION	
A Machine height	3635mm
B Track grouser height	80mm
C Ground clearance	587mm
D Machine length (with ripper)	9300mm
E Machine length (without ripper)	6395mm
F Max. lifting height of blade	1375mm
G Max. digging depth of blade	560mm
H Digging angle of blade	52°
I Blade width	4130mm
J Blade height	2000mm
RIPPER	
Type	Single ripper
L Max. ripping depth	1250mm
K Max. lifting height	973mm

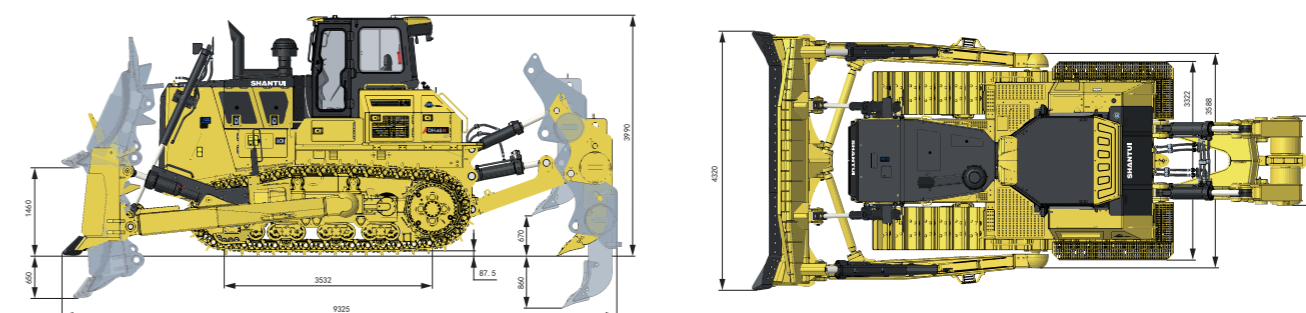


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DH46M SPECIFICATIONS

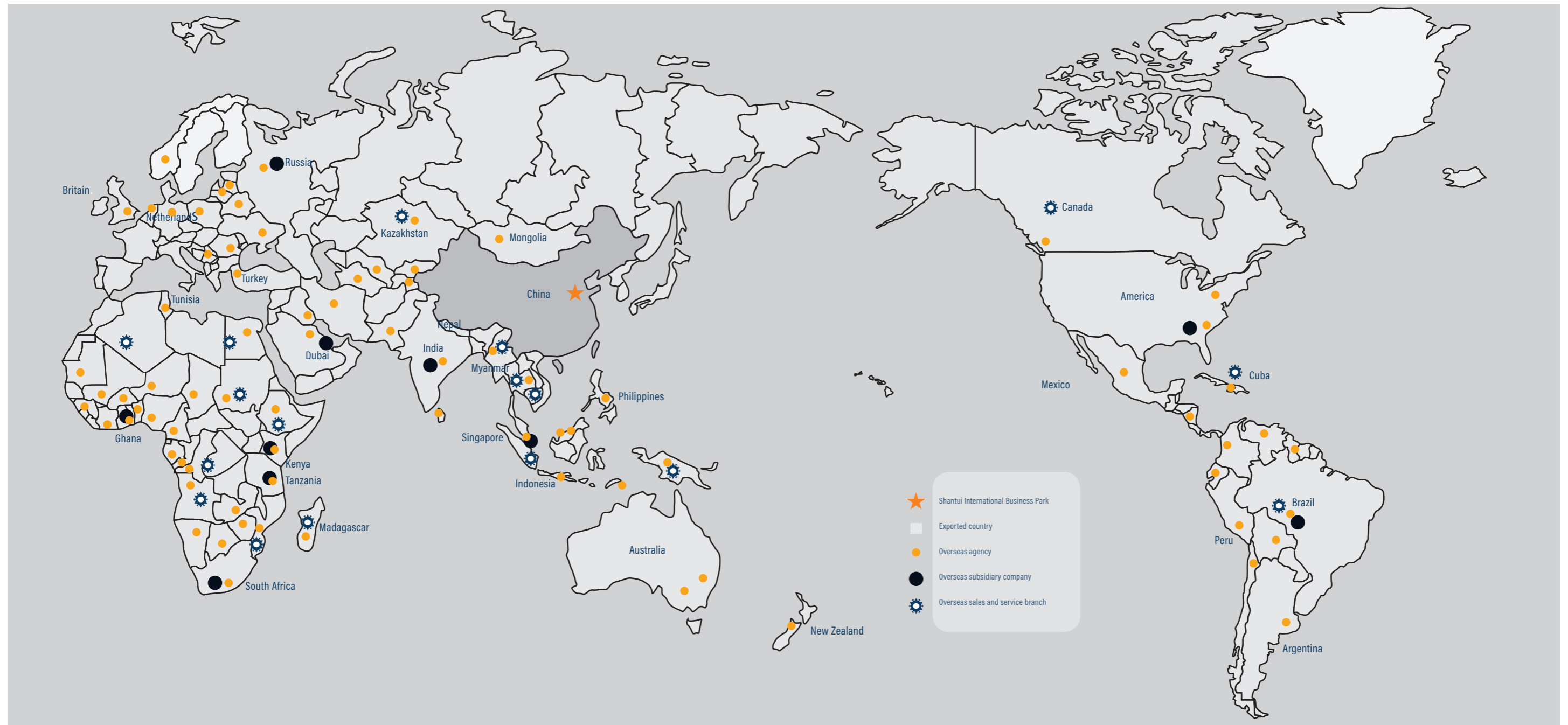
ENGINE	
Engine	Cummims X15-C525
Emission	U.S. EPA Tier 4 Final, EU Stage V
Rated revolution	1800rpm
Gross power	392kW(525hp)
No. of cylinder-bore×stroke	6×137mm×169mm(6×5.40in.x6.65in.)
Displacement	15L
Max. torque	2373Nm(1750.2lbf·ft)@1400rpm
Cooling system	Smart temperature-controlled fan
DRIVE SYSTEM	
Drive system	Independent dual-circuit electric control hydrostatic drive, intelligent matching of speed-load, "stepless" variable speed, mono-lever control of travel, speed and steering; steering with load, pivot steering, work flexibly, high efficiency, easy for maintenance
System overflow pressure	43500kPa(6309.1psi)
Traveling speed	Forward 0~11km/h(6.8mph) Backward 0~11km/h(6.8mph)
Steering	Independent drive of track at both sides to ensure the full power output for pivot steering and steering with load
Brake	Regular closed multi-disk brake
Final drive	Double-reduction final drives of spur gear and planetary gear
UNDERCARRIAGE	
Type	Pivot, equalizing beam suspended type, semi-rigid structure
Track shoe type	Single grouser
Track gauge	2260mm(89in.)
Width of track shoe	610mmx660mmx710mm(24in.x26in.x28in.)
Track grounding length	3532mm(139in.)
Track grounding area	21545cm ² (3339.5sq.in.)
Number of track shoe	40 pcs/side
Grounding pressure (standard configuration)	120kPa(17.4psi)
Number of carrier roller	2 pcs/side
Number of track roller	7 pcs/side
Pitch	260mm(10.2in.)
REFILL CAPACITY	
Fuel capacity	880L(232.5GAL.)
Coolant liquid capacity	73L(19.3GAL.)
Engine oil capacity	45-49L(11.9-12.9GAL.)
Hydraulic oil tank (travel)	240L(63.4GAL.)
Hydraulic oil tank (work)	43L(11.4GAL.)/SINGLE SIDE
Final drive	8L(2.1gal.)
Transfer case	6L(1.6GAL.)
OPERATING WEIGHT	
Operating weight	56200kg(123899lb.)
BLADE	
Blade type	Rock Blade
Blade capacity	13.7cu.m(17.9cu.yd.)

DIMENSION	RS
Machine height	3990mm(157in.)
Track grouser height	87mm(3.4in.)
Ground clearance	680mm(26.8in.)
Machine length (with ripper)	9325mm(367in.)
Machine length (without ripper)	7085mm (275in.)
Max. lifting height of blade	1460mm (57.5in.)
Max. digging depth of blade	660mm (26in.)
Digging angle of blade	53°±3°(deg.)
Blade width	4320mm (179in.)
Blade height	1950mm (76.8in.)
Blade tilt height	1140mm (44.9in.)
Width from end of left track shoe to end of right track shoe	2870mm (113in.) (standard)
Width from end of left footplate to end of right footplate	3322mm (130.8in.) (standard)
RIPPER	
Type	Single Shank ripper
Ripping Depth of Ripper	1245mm (49in.)
Lifting Height of Ripper	860mm (33.9in.)
Length of Ripper(Maximum Subsoiling Position)	2475mm (108in.)
Width of Ripper	1490mm (58.7in.)
Tilt Angle(Maximum Lift Position)	37.5°



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