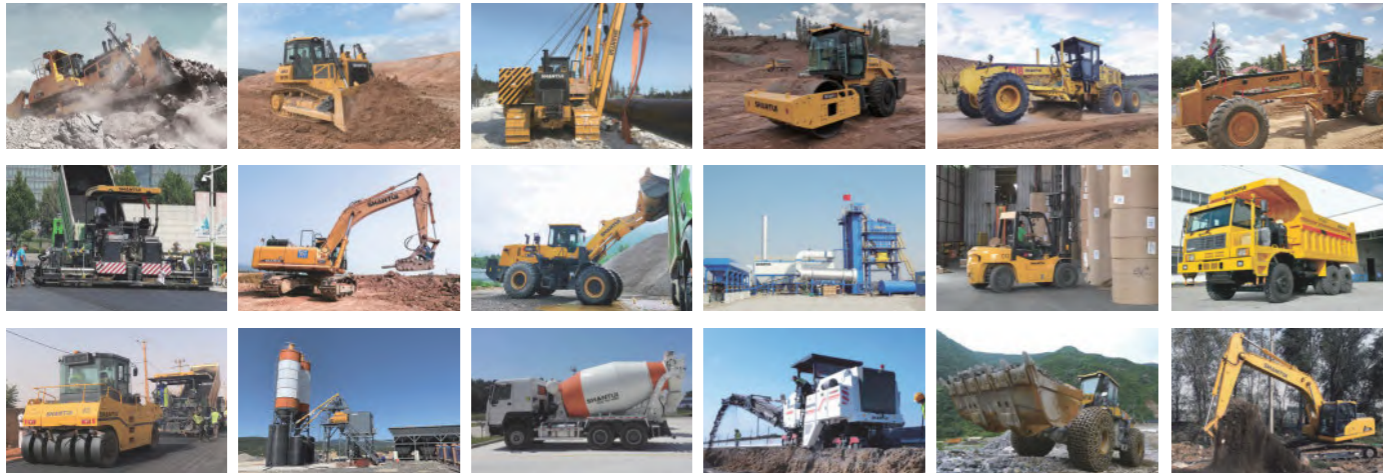


LET'S MAKE CONSTRUCTION EASIER

GROUP PRODUCTS



# SHANTUI

## DH-M SERIES Crawler Dozer



Shantui Social

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**SHANTUI**  
LET'S MAKE CONSTRUCTION EASIER

Engine Model: Cummins QSL9  
Gross Power: 213 kW(286hp)  
Operating Weight: 23,562kg

## LET'S MAKE CONSTRUCTION EASIER

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.



## LET'S MAKE CONSTRUCTION EASIER

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 results 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 the superiorities of the J series dozer, while using EPA Tier 4f/EU Stage V engines, state-of-art technologies such as adjustable work-mode and grade assist, the new K series dozer becomes more powerful and intelligent, give you more productivity with less fuel consumption. K 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

## 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 K series dozers. With FPT NEF series diesel engines and dual hydrostatic driving systems that are automatically controlled by an intelligent, well harmonized program, the K-series dozers have excellent performance while consuming minimal fuel. Whether your working with heavy loads or delicate precise dozing operations, the K-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, use with heavy load conditions;

#### ECONOMY MODE:

engine usually operates at lower-speed range, fuel consumption is reduced by up to 20 percent; engine speed can automatically rise 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 OVERALL EFFICIENCY ARE THE MAIN CHARACTERISTICS OF OUR HYDROSTATIC TRANSMISSION SYSTEM.

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

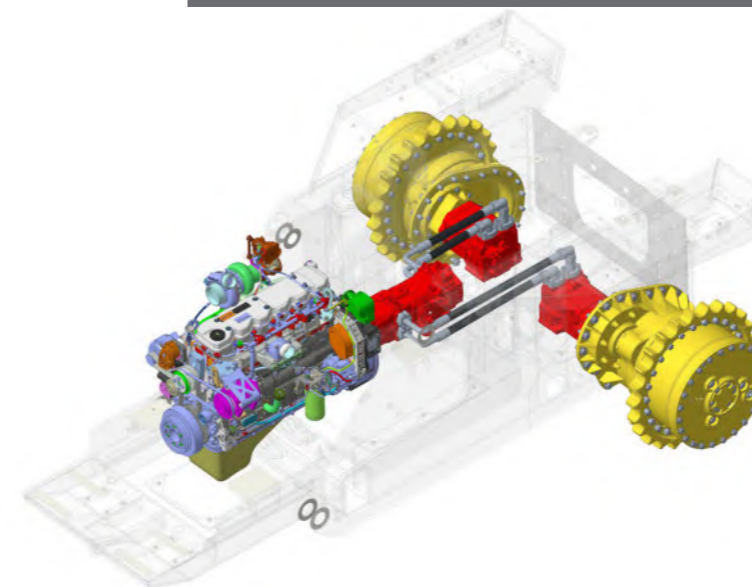
\*From zero to maximum the speed is smooth infinitely variable. The operator only needs to set the maximum required speed, the control program will adjust the displacement of the hydraulic drive motor and/or pump automatically to prevent the engine from being overloaded. For different work conditions, 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 a narrow environments.

## 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

## DiagSmart Software for set up and diagnostics.

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

## 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

## CUMMINS electronic control diesel engine



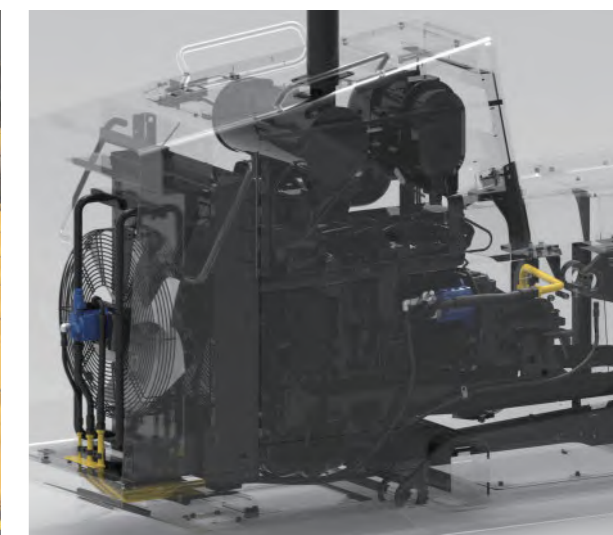
For equipment manufacturers, the Cummins Tier 4 Final / EU Stage V package provides a fully integrated air-intake-to-exhaust aftertreatment system designed to minimize space and maximize output.

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.

## Integrated aluminum heat exchanger

K-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.



## 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 higher the fan speed. 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.

## I Precise intelligent control system

K-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 go to work with no need for extra costs for additional training.

The steering and blade are each 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 functions 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 reverse. The thumb wheel is used to shift the machine speed to high or low speeds. The speed pre-set button and horn button is located at the top side 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.

Pedal modes are optional and the operator can easily choose both the pedal modes through a 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 brakes function will engage 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-facing 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 a LCD screen.





## Safe and Comfortable operating experience

With ergonomics in mind, the K Series' 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 wide door openings and large door windows which give excellent visibility to the blade, curbs and tight spaces too help operators to work more precisely. The one-piece cab structure is integrated with the ROPS / FOPS for operator safety and has high rigidity and superb sealing performance which greatly reduce noise and vibration for the operator and minimize dust entering the cab. Retractable seat belt, slip resistant floor mat and convenient grab handles assists the operator safety.

\*Comfortable fabric, high-back air-suspension seat with adjustable head and back rests are standard. The bottom seat cushion has multi-way adjustments. The seat is for all day operator comfort for operator support. Optional electric heated seats are available. Separate leather-bolstered arm rests with height and angle adjustments are fitted for operator comfort.

\*An AM/FM/MP3 radio which includes an USB and multimedia interface is standard. The cab also has a 12-volt electrical outlet for powering a mobile phone.

\*The dash is fitted with a high resolution 7 inch large color intelligent 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 you 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 K series dozers. Optional attachments are three- shank parallelogram ripper, winch or drawbar. 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 FEATURES:

\*Rugged, Variable Pitch Angle Tilt (VPAT) blade allows you to hydraulically adjust lift, angle and tilt for precise results. For different working conditions, a broad choice of track shoe designs and widths help you further optimize your machine for performance and longer life.

\*Closed-cell blade design and fabricated, box-section C-frame provides maximum torsional stiffness and optimal absorption of forces. And using wear-resisting material in front of the blade can prolong the durability and reliability.

\*Cutting edge angles and blade moldboard geometry are designed to provide exceptional balance between fine/light dozing and aggressive heavy material movement.

\*Using wear-resisting material, cutting edges can be used twice to save cost by exchanging opposite parts.

\*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 halogen work lights are positioned high for nearly 360 deg superior illumination to extend your workday beyond daylight.



\*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 ripper work. The parallel linkage design provides better penetration and maneuverability in tight working areas.



\*Hydrostatic winch can be used for self rescue, equipment recovery, logging, or other maneuvers. The SHANTUI hydrostatic 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 K 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.

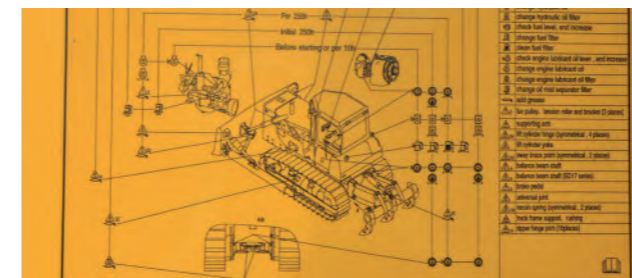
\*All the filters' operation and status of engine, hydraulics, and transmission are indicated with wise and on-screen displays. The diagnostic monitor also provides easy-to-understand messages that help speed troubleshooting.

\*Grouped pressure taps 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.



## DH13M SPECIFICATIONS

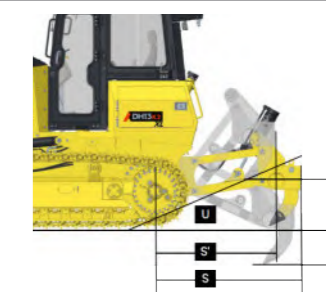
| ENGINE                            |  |                       |
|-----------------------------------|--|-----------------------|
| Model                             | FIAT N45   |                       |
| Emission                          | EPA Tier4 Final / EU Stage V   |                       |
| 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  |                       |
| 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   |                       |
| Track gauge                       | 1930 mm  | 2150 mm               |
| Width of track shoe               | 560 mm   | 760 mm                |
| Track grounding length            | 2640 mm  |                       |
| Track grounding area              | 29568 cm <sup>2</sup>  | 40128 cm <sup>2</sup> |
| Number of track shoe              | 40 pcs/single side   |                       |
| Grounding pressure                | 46.3 kPa   | 35.6 kPa              |
| Number of carrier roller          | 2 pcs/side   |                       |
| Number of track roller            | 7 pcs/side   |                       |
| Pitch                             | 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   | 1117 mm      | 1117 mm      |
| K         | Max blade turning angle on ground  | 25°(deg.)    | 25°(deg.)    |
| L         | Machine length 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)

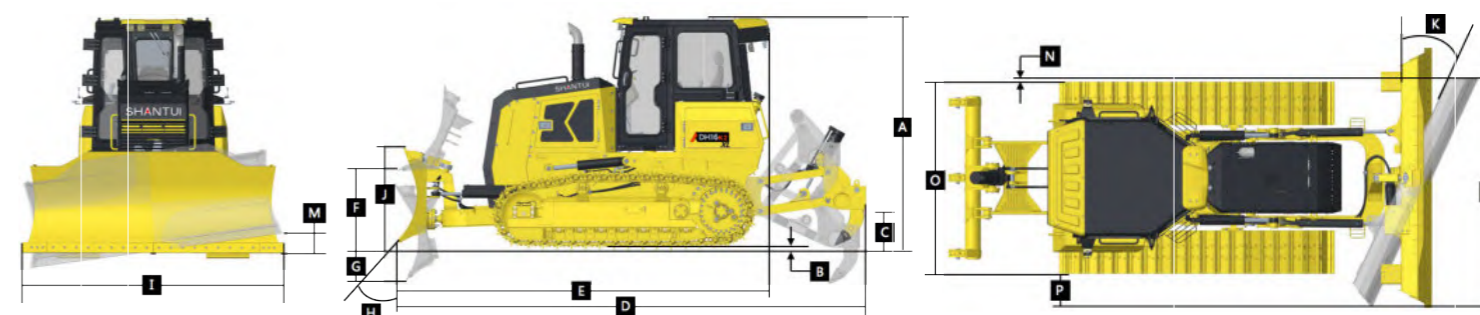
|                                      |                         |
|--------------------------------------|-------------------------|
| Diameter of steel rope               | 16 mm/ 19 mm/ 22 mm     |
| Maximum rope capacity of drum        | 128.9 m/ 90.8 m/ 65.5 m |
| Maximum tension(Bare drum)           | 28190 kg                |
| Maximum tension(Full drum)           | 15190 kg                |
| Maximum speed of the rope(Bare drum) | 13.6 m/min              |
| Length of winch                      | 900 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.

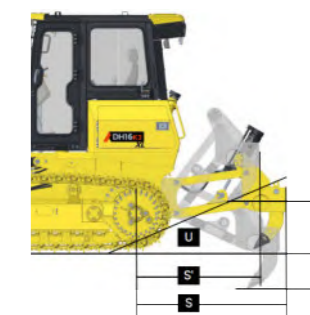
## DH16M SPECIFICATIONS

| 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                       | 940 Nm/ 1500 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          | 42500 KPa  |                       |
| Traveling speed                   | Forward 0-10 km/h<br>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   |                       |
| 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 <sup>2</sup>   | 49815 cm <sup>2</sup> |
| 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               | 20 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 length 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                   | 572 mm    |
| R   | Max. lifting height                  | 492 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): 2138KG) |                                      |           |
|   | 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   |



## 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 <sup>2</sup>   |           |
| 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 <sup>3</sup>  |           |

| 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   |

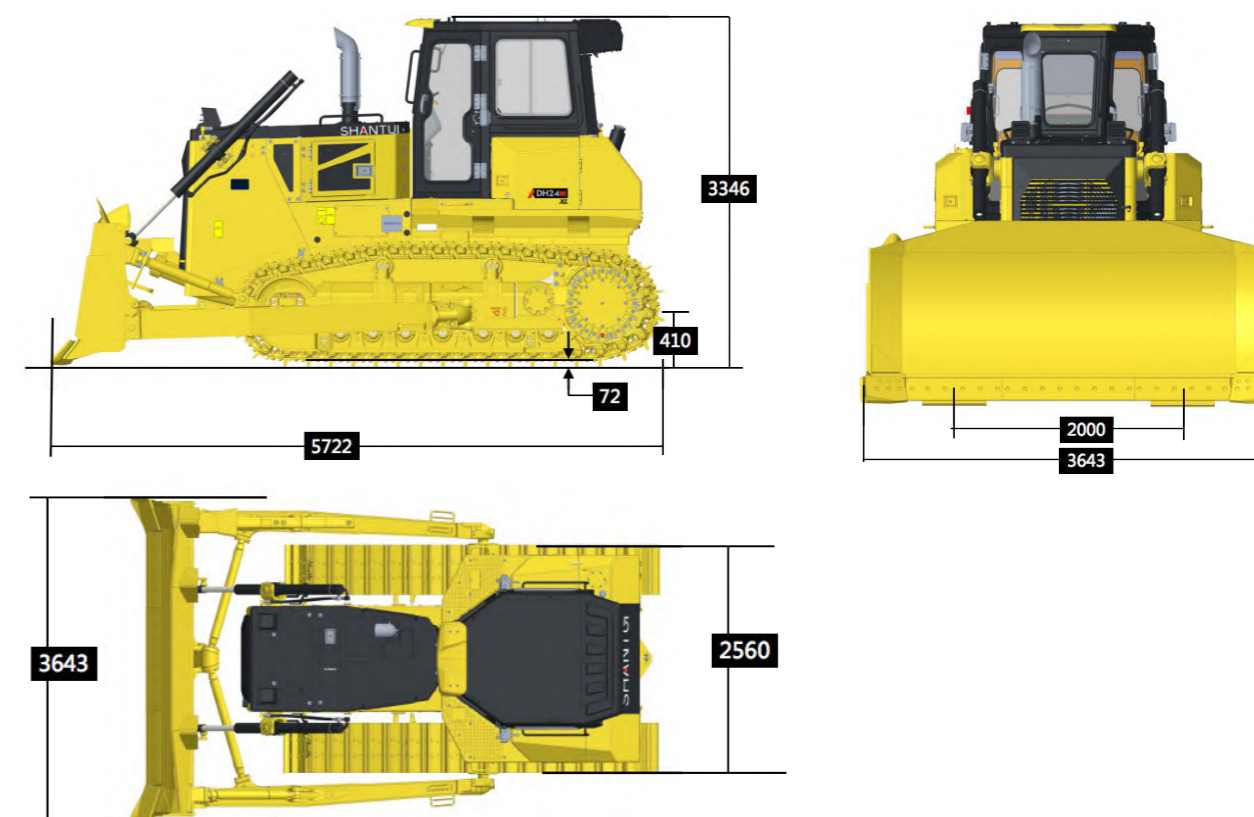


\* The specifications are subject to change without notice. The pictures may include options. The actual color & appearance of the product may differ from what is shown.

## 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                             | 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 straight gear + Primary planetary gear reduction                            |                       |
| UNDERCARRIAGE                            |   |                       |
|  | <b>XL</b>   | <b>LGP</b>            |
| 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(Standard)  | 910 mm                |
| Track grounding length                   | 3050 mm   | 3482 mm               |
| Track grounding area                     | 34160 cm <sup>2</sup>   | 63372 cm <sup>2</sup> |
| Number of track shoe                     | 41  | 45                    |
| Grounding pressure                       | 67 kPa  | 47.2 kPa              |
| Number of carrier roller                 | 2/side  | 2/side                |
| Number of track roller                   | 8/sde   | 8/side                |
| Pitch                                    | 216 mm  | 216 mm                |
| Minimum turning radius                   | 4210 mm   | 4340 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                 |                    |
|-----------------------------------|--|--------------------|--------------------|
| Operating weight (Traction frame) |  | 23562 kg           |                    |
| Operating weight (Ripper)         |  | 26209 kg           |                    |
| Operating weight(Winch)           |  | -                  |                    |
| BLADE                             |  | XL                 | LGP                |
| Blade type                        |  | Semi U             | Semi U             |
| Blade capacity                    |  | 6.5 m <sup>3</sup> | 6.5 m <sup>3</sup> |
| Lift height                       |  | 1247 mm            | 1247 mm            |
| Lift speed                        |  | ≥0.3 m/s           | ≥0.3 m/s           |
| Natural settlement                |  | ≤120 mm/15min      | ≤120 mm/15min      |
| Max. digging depth of blade       |  | 540 mm             | 540 mm             |
| Max.inclination                   |  | 500 mm             | 500 mm             |



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## SPARE PARTS

# A key element in Shantui Value

How Shantui's dominant position in the production of all types of parts and components for construction machinery adds up to more VALUE for you.



Shantui actually makes its own structural parts, including arms, tracks, undercarriages, roller sets, buckets, and also makes its own transmissions, torque converters and much more for a wide range of construction machinery products.

Unlike most competitors in China, Shantui doesn't just assemble machines—we build them from scratch. Many of Shantui's competitors in China and around the world—are also its customers when it comes to parts. It's one more reason why Shantui delivers better value in its finished products.

**SHANTUI PARTS WITHSTAND STRESS—SO YOU DON'T HAVE TO!**

Shantui manufactures many of our lines' structural parts—undercarriage, tracks, buckets, roller sets, torque converters, transmissions and more—in house. That means better quality control for our bulldozers and a better price for you. Parts and components—The Shantui Way.

### Easy installation.

Simple design makes for easy cleaning, mounting and dismantling of the main links, assuring reliability and high endurance. High-temp, inductive hard surfaces ensure the best strength and superior wear-resistance.

### Crack-proof.

When the bushing material is cold extruded, the steel fibers in it are evenly distributed. Carburization then ensures sufficient core hardness and wear-resistance of the surface.

### Strength.

Special heat treatment and quenching ensures the strong wear-resistance of the pin shaft for anti-bump, anti-stress and consistent strength, which is critical to the process.

### All-around adaptability.

Track shoes include single-tooth, double-tooth, as well as swamp type, to meet all varieties of work conditions, with strong wear-resistance and enduring performance.

### Transmissions.

At Shantui, we make our own transmissions for our many lines. This is a key component in our vertical integration, further contributing to our trademark value proposition.

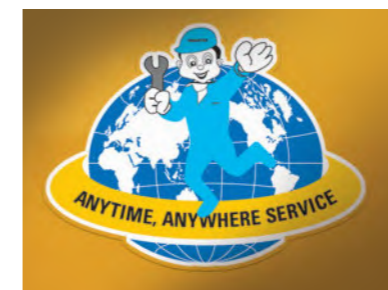


## OUR GLOBAL SALES AND SERVICE NETWORK

Shantui's global sales and service network now covers more than 150 countries and territories around the world.

Shantui has extended its well-regarded domestic market promise of ANYTIME, ANYWHERE SERVICE to its offices abroad and to all of its dealers and agents abroad. The network offers local training, has a mature parts delivery system and is still rapidly growing as Shantui's exports pick up steam.

Contact your local Shantui distributor or dealer to learn more about the ways that Shantui brings value to a wide range of construction and concrete handling projects.



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