DH16-M SSC/2.0

OPTIONAL FEATURE PARAMETERS

Item		Parameters
Automated Construction System	Construction Accuracy（cm）	⩽ ±5
	Coverage Range（km）	⩽ 10
Assisted Operation System	System Latency（ms）	⩽ 250
	Multi-View Imaging（pcs）	⩾ 6
Automated Utility Construction System	Trajectory Accuracy（cm）	⩽ 10

OPTIONAL AI FUNCTION MODULE

SSC Function Details		DH16-M				
		Ready	Standard	Pro	Max	Ultra
Intelligent Interaction System(IIS)	Knowledge Base Q&A	○		●	●	●
	Voice Control	○		●	●	●
Equipment Health Management(EHM)	Vehicle Status Monitoring	●	●	●	●	●
	Fault Alarms	●	●	●	●	●
Intelligent Equipment Maintenance(IEM)	Maintenance Reminder			●	●	●
	Operation & Maintenance Manual/Spare Parts Catalog /Fault Code Query			●	●	●
Power Management System(PMS)	Operation Mode Switching	●	●	●	●	●
Assisted Operation System(AOS)	Intelligent Blade Control		●	●	●	●
	5G Long-Range Remote Control				●	●
Construction Safety System(CSS)	360° Intelligent Perception	○		●	●	●
	Collision Warning				●	●
	Anti-Rollover Warning				●	●
	Terrain Enhancement Display					●
	Edge Warning					●
Automated Construction System(ACS)	Implement Guidance	○	●	●	●	●
	Automatic Implement Control	○	●	●	●	●
Automated Utility Construction System (AUCS)	Global Path Planning					●
	Local Path Planning					●
	Motion Control					●
	Scene Awareness					●
Coordinated Construction System (CCS)	Single Machine Construction Data Upload		●	●	●	●

* THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. THE PICTURES MAY INCLUDE OPTIONAL CONFIGURATION. THE ACTUAL COLOR & APPEARANCE OF THE PRODUCT MAY DIFFER FROM WHAT IS SHOWN.

Shantui Social

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DH16-M
Crawler Bulldozer

SSC/2.0

ENGINE MODEL	FIAT N67
GROSS POWER	151kW(202hp)/2200rpm
OPERATING WEIGHT	17,665kg

VALUE THAT WORKS

DH16-M TECHNICAL PARAMETERS

ENGINE	
Engine	FIAT N67
Emission standard	EPA Tier 4 Final / EU Stage Ⅴ
Rated speed	2200rpm
Gross power	151kW(202hp)
Net power	138kW(185hp)
Piston displacement	6.7L
Maximum Torque	940N.m/1500rpm
TRANSMISSION SYSTEM	
Transmission system	Dual-circuit electronically controlled hydrostatic drive, intelligent matching of load changes
System overflow pressure	43500kPa
Travel speed	Forward speed 0-10km/h Reverse speed 0-10km/h
Traction force	230kN
Steering clutch	Differential steering of hydraulic motor, pivot steering, load steering
Steering brake	Normally closed brake
FINAL DRIVE	Reduction of single spur gear + reduction of single planetary gear

CHASSIS SYSTEM	XL	LGP
Type	Semi-rigid suspension structure	Semi-rigid suspension structure
Track form	Single grouser	Single grouser
Center distance of crawler	2040mm	2350mm
Width of track shoe	560/610mm	810mm
Length of track on ground	3075mm	3075mm
Track grounding area	34440/37515cm²	49815cm²
Number of Crawler Sections	43pcs	43psc
Specific pressure to ground (equipped with shed)	50(45.4)/45.9(41.7)kPa	36.9(33.4)kPa
Number of carrier roller	2pcs/single side	2pcs/single side
Quantity of thrust wheels	8pcs/single side	8pcs/single side
Chain rail pitch	203mm	203mm
Minimum turning radius	3879mm	4012mm

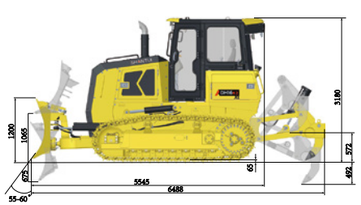
MAINTENANCE CAPACITY	XL	LGP
Fuel tank capacity	389L	389L
Coolant liquid capacity	29L	29L
Engine oil capacity	20L	20L
Hydraulic fuel tank	165L	165L
Final drive	43L/single side	43L/single side

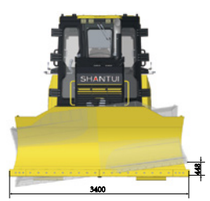
OPERATING WEIGHT	XL	LGP
Equipped with cab + traction frame	17665kg	18830kg
Equipped with cab + ripper	19190kg	20375kg

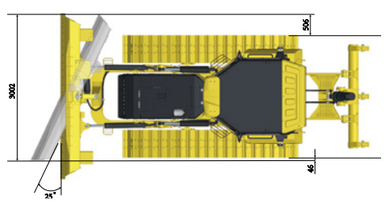
BLADE	XL	LGP
Blade Type	PAT	PAT
Blade capacity	3.2cu.m	4.01cu.m

DIMENSIONS	XL	LGP
Height of complete machine (excluding ROPS)	3180mm	3180mm
Grouser height	65mm	101.5mm
Ground clearance	370mm	370mm
Overall length of complete machine (including traction frame)	5800mm	5800mm
Overall length of complete machine (excluding traction frame)	-	-
Maximum Lifting Height of Blade	1028mm	1028mm
Maximum penetrating depth of blade	642mm	642mm
Inclination angle of blade	55°-60°(deg.)	55°-60°(deg.)
Blade length	3300mm	4011mm
Blade height	1387mm	1387mm
Maximum swing angle of blade	24°(deg.)	24°(deg.)
Overall Width: At maximum swing angle of blade	3022mm	3064mm
Blade tilt height	435mm	435mm
The maximum swing angle refers to projection distance from left blade angle to track	0 mm	18.5 mm
Track width at both ends	2600mm	3160mm
The maximum swing angle refers to projection distance from right blade angle to track	421mm	466mm

RIPPER	XL	LGP
Type	Three-shank ripper	Three-shank ripper
Penetrating depth	492mm	492mm
Lifting height	572mm	572mm
Ripper length (deepest ripping position)	1810mm	1810mm
Ripper length (highest lifting position)	1315mm	1315mm
Ripper width	1900mm	1900mm
Tooth width	1696mm	1696mm
Tooth spacing	800mm	800mm







NINE MAJOR NEEDS\NINE MAJOR SYSTEMS

SSC 2.0

POWER OPTIMIZATION CONTROL SYSTEM

Smart power selection for varying conditions

Intelligent algorithm matching for high efficiency and energy savings

Enhances overall vehicle operational economy, achieving fuel savings and improved productivity

- Recommended operation mode
- Energy Consumption Control System
- Automatic mode

CONSTRUCTION SAFETY SYSTEM

A thoughtful security expert

Evolving from "Passive Response" to "Active Intervention"

Ensures personnel and equipment consistently meet safe construction conditions under all circumstances

- Risk Prediction System
- Collision Warning System
- Vehicle Stability Control System
- Proximity Warning System

ASSISTED OPERATION SYSTEM

A Custom-Configured Controller for Your Bulldozer

Adapts to operator habits and optimizes control logic

An intuitive understanding of your operation enables true Human-Machine Integration

- Limp Home Mode
- Personalized driving
- Smart Cockpit Control System
- Active Slip Control System
- Reverse Speed Matching System

AUTOMATIC WORKING DEVICE SYSTEM

Evolving from "Human-Guided" to "Vehicle-Driven Intelligence"Devices grow smarter with use

Automatically interprets designs, executes accordingly, and learns on the job

Proceduralizing construction experience to resolve issues of quality and efficiency

- Pre-set Construction Task System
- Customized Multi-Objective Construction Planning
- Centimeter-Level Precision Operation System

AUTONOMOUS WALKING SYSTEM

The Equipment Commander Empowering machinery with capabilities for independent thought and execution

Integrates environmental perception, path planning, and autonomous decision-making

The key solution to challenges in manpower, efficiency, and safety

- Multimodal Fusion Perception System
- Positioning and Mapping System
- Path Planning System
- Motion Control System

HEALTH MANAGEMENT SYSTEM

A Personal Cloud-Based Doctor for Every Machine

Leveraging its Global Data Management Center, Shantui has developed health models from data of 110,000+ devices

ransforming equipment upkeep from "reactive repair" to "predictive prevention"

- Driving Behavior Optimization
- Vehicle Health Prediction
- Digital Twin System

INTELLIGENT MAINTENANCE SYSTEM

Your Intelligent & Considerate AI Maintenance Manager

Replacing the rigid, "one-size-fits-all" approach of traditional maintenance

With smart services tailored to specific needs

- Digital Maintenance Work Order Platform
- Maintenance Guidance System
- Adaptive Maintenance Planning System
- Maintenance Plan Formulation

COLLABORATIVE CONSTRUCTION SYSTEM

A Cloud-Based Command Center for the Entire Site

From "Disordered, Independent Work" to "Intelligent, Collaborative Operation"

Solves management chaos and inefficiency in multi-type, multi-model machine collaboration

- Collaborative Construction Process Decision-Making System
- Dynamic Resource Optimization & Allocation System
- AI Fleet Intelligent Scheduling System

INTELLIGENT INTERACTION SYSTEM

An Intelligent Partner That Understands Construction

Real-time communication for construction planning and process management

Serving as the bridge connecting smart machinery and intelligent services

- Voice Interaction Module
- Message Alert Module
- Shantui Knowledge Base