DH20-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		DH20-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

SHANTUI CONSTRUCTION MACHINERY CO., LTD.
ADD: NO. 58, G327 HIGHWAY, HI-TECH ZONE, JINING CITY, SHANDONG, CHINA
TEL: +86-537-2909369 FAX: +86-537-2311219
EMAIL: trade@shantui.com WEB: www.shantui.com

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DH20-M
Crawler Bulldozer

SSC/2.0

ENGINE MODEL Cummins L9
GROSS POWER 186kW(249hp)/2100rpm
OPERATING WEIGHT 22,200kg

VALUE THAT WORKS

DH20-M TECHNICAL PARAMETERS

ENGINE	
Engine	Cummins L9
Emission standard	Euro-V
Rated speed	2100rpm
Gross power	186kW(249hp)
Net power	165kW(221hp)
Piston displacement	8.9L
Maximum Torque	1085N.m/1400rpm

TRANSMISSION SYSTEM	
Transmission system	Dual-circuit electronically controlled hydrostatic drive, intelligent matching of load changes
System overflow pressure	45000kPa
Travel speed	Forward speed: 0-11km/h Reverse speed: 0-11km/h
Traction force	368kN
Steering clutch	Differential steering of hydraulic motor, pivot steering, load steering
Steering brake	Normally closed brake
FINAL DRIVE	Reduction of single spur gear + single planetary gear

CHASSIS SYSTEM	XL	LGP
Type	Semi-rigid suspension structure	
Track form	Single-tooth dry-type	Wet-type
Center distance of crawler	2430mm	2430mm
Width of track shoe	560/610/710mm	840mm
Length of track on ground	3285mm	3285mm
Track grounding area	40472/44086/51314cm^2	60709cm^2
Number of Crawler Sections	45/side	45/side
Specific pressure to ground (equipped with shed)	53.8/49.4/42.4kPa	36.3kPa
Number of carrier roller	2/side	2/side
Quantity of thrust wheels	8/side	8/side
Chain rail pitch	203mm	203mm
Minimum turning radius	4192mm	4192mm

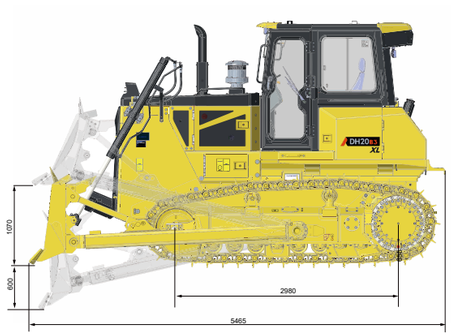
MAINTENANCE CAPACITY	XL	LGP
Fuel tank capacity	444L	444L
Coolant liquid capacity	40L	40L
Engine oil capacity	25L	25L
Hydraulic fuel tank	125L	125L
Final drive	46L/one side	46L/one side

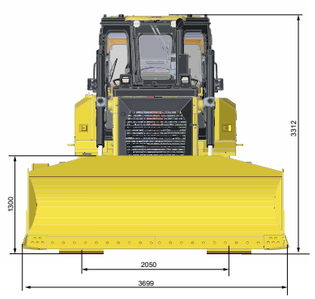
OPERATING WEIGHT	XL	LGP
Equipped with ROPS shed + traction frame as standard configuration	22200kg	22480kg
Equipped with ROPS shed + ripper	24065kg	–

BLADE	XL	LGP
Blade Type	PAT	PAT
Blade capacity	5m^3	5m^3

DIMENSIONS	XL	LGP
Height of complete machine (excluding ROPS)	3246mm	3246mm
Grouser height	65mm	65mm
Ground clearance	410mm	410mm
Overall length of complete machine (including traction frame)	5909mm	5909mm
Overall length of complete machine (excluding traction frame)	5909mm	5909mm
Maximum Lifting Height of Blade	1060mm	1060mm
Maximum penetrating depth of blade	700mm	700mm
Inclination angle of blade	55°±3°	55°±3°
Blade length	4080mm	4080mm
Blade height	1330mm	1330mm
Track width at both ends	3040mm	3040mm

RIPPER	XL	LGP
Type	Three-shank ripper	Three-shank ripper
Penetrating depth	650mm	650mm
Lifting height	620mm	620mm
Ripper length (deepest ripping position)	1718mm	1718mm
Ripper length (highest lifting position)	1454mm	1454mm
Ripper width	2288mm	2288mm
Tooth width	2100mm	2100mm
Tooth spacing	1050mm	1050mm





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