HITACHI

Reliable solutions





HYDRAULIC EXCAVATOR

Model Code: Operating Weight:

Bucket:

EX2000-7 (Fuel Consumption Optimization) Engine Gross Power: Cummins: 746 kW (1 014 PS, 1 000 HP) Loading Shovel: 192 000 kg (423,288 lb.) Backhoe: 193 000 kg (425,492 lb.) Loading Shovel: ISO 7546 Heaped 2:1

: 12.0 - 13.5 m³ (15.7 - 17.7 cu. yd.)

Backhoe: ISO 7451:2007

: 12.0 - 14.0 m³ (15.7 - 18.3 cu. yd.)

Model Code:

EX2000-7B (Tier 4 Final / EU Stage V) Engine Gross Power: Cummins: 746 kW (1 014 PS, 1 000 HP) Operating Weight: Loading Shovel: 194 000 kg (427,697 lb.) Backhoe: 195 000 kg (429,901 lb.)

Bucket: Loading Shovel: ISO 7546 Heaped 2:1 : 12.0 - 13.5 m³ (15.7 - 17.7 cu. yd.)

Backhoe: ISO 7451:2007

: 12.0 - 14.0 m3 (15.7 - 18.3 cu. yd.)

Model Code: EX2000-7E

Bucket:

Power Output: 610 kW (829 PS, 818 hp) Operating Weight:

Loading Shovel: 190 000 kg (418,878 lb.) Backhoe: 191 000 kg (421,083 lb.) Loading Shovel: ISO 7546 Heaped 2:1

: 12.0 - 13.5 m³ (15.7 - 17.7 cu. yd.)

Backhoe: ISO 7451:2007

: 12.0 - 14.0 m3 (15.7 - 18.3 cu. yd.)



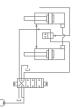
SUSTAINABILITY

In line with our vision for a zero-emission future in mining, Hitachi's EX-7 excavators are built on the philosophy that machines shouldn't have to sacrifice performance to be sustainable. This philosophy is evident in the EX2000-7 with a range of cutting-edge features - including the new Cummins QST30-C engine - to help operations minimize costs and go greener without sacrificing performance.



MAIN PUMP ELECTRIC REGULATORS

Each individually controlled hydraulic pump has its own electric regulator, enhancing engine power, lowering fuel consumption, and increasing productivity to lower the total cost of operation.



HYDRAULIC REGENERATION CIRCUIT

The flow regeneration valve fitted to the hydraulic system reduces pump demand, ultimately reducing power requirements from the hydraulic system and engine. The result is lower fuel consumption and improved pump life.



HYDRAULIC OIL COOLER

A larger hydraulic oil cooler with variable speed fan reduces energy demand and creates a more reliable hydraulic system. The oil cooler is kept separate from the radiator to effectively reduce hydraulic oil temperatures, increase hydraulic service life, and improve maintainability.



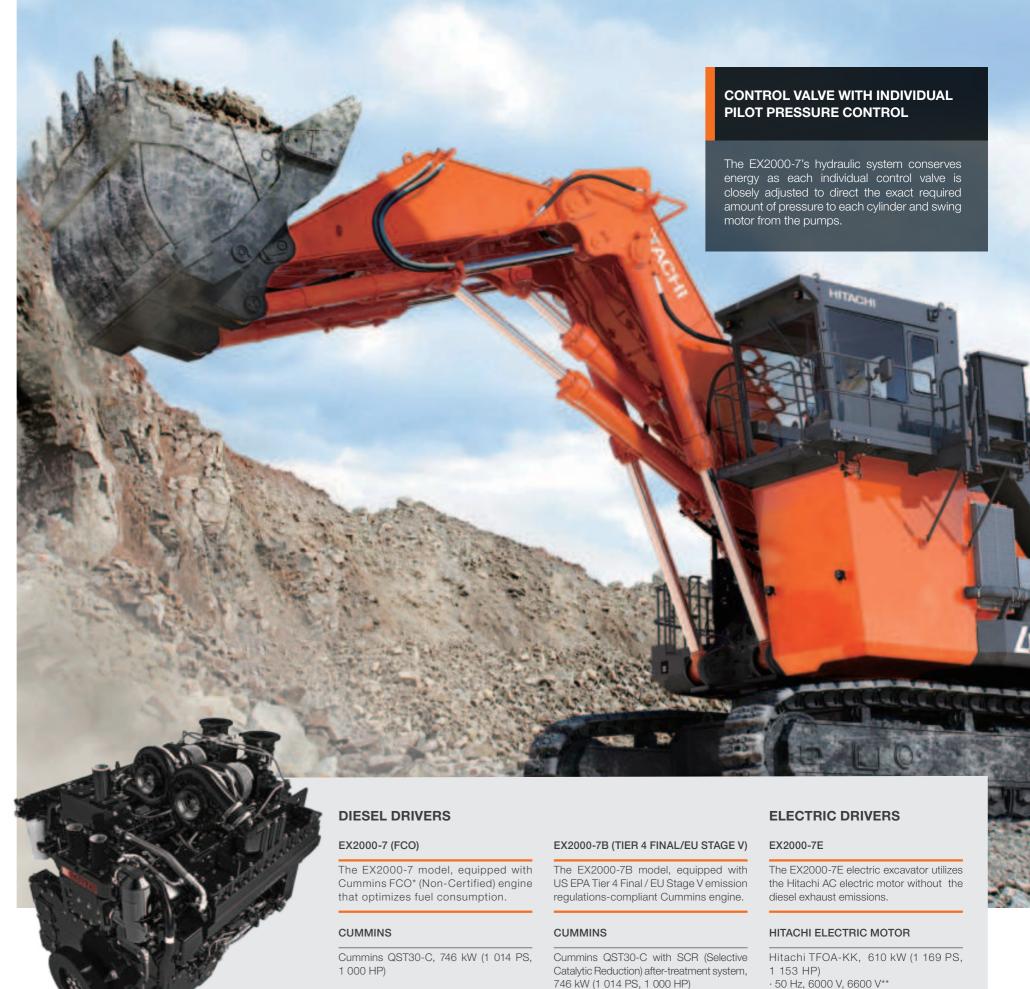
RADIATOR FAN MOTOR

The radiator fan is now driven by a hydraulic system, replacing the previous mechanical drive system. The fan automatically adjusts to meet engine requirements, creating an optimized cooling system with less horsepower demand and less operational noise.



ENGINE-PUMP (E-P) CONTROL

Hitachi's computer-aided Engine-Pump (E-P) Control achieves optimum productivity from the engine and hydraulic pumps. The innovative system senses load demand and controls engine and pump output to match the work being performed, maximizing operating efficiency and lowering fuel costs for large workloads.



- · 60 Hz, 6600 V, 6900 V**

*FCO: Fuel Consumption Optimization

^{**}Please contact hitachi for other specification request

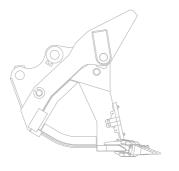


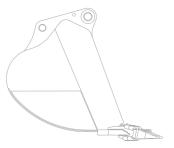
PRODUCTIVITY

The EX-7 is engineered for productivity. The EX2000-7 features a power-focused design, including a larger bucket, to deliver consistently impressive output for mining operations.

FRONT ATTACHMENT

With a front attachment design that prioritizes performance, the EX2000-7 can achieve superior productivity under different digging profiles. The boom and arm are strategically welded, utilizing a full-box section design to evenly distribute stress and provide ease of maintenance.





The Backhoe attachment is designed

using computer-aided box frame analysis

to determine the optimal structure for

integrity and longevity. Complete with a

floating pin and bush, the bucket has been

designed to match the geometry of the

LOADING SHOVEL

The Loading Shovel attachment is equipped with an auto-leveling crowd mechanism that controls the bucket at a constant angle. The EX2000-7 now has a larger 12.0 m³ (15.7 cu. yd.) bucket, designed to increase loading capability with a tilt angle that enhances operational efficiency.

attachment to maximize productivity.

BACKHOE

Arm crowding force 628 kN (64 700 kgf, 142,639 lbf.)

Bucket digging force 701 kN (71 500 kgf, 157,631 lbf.)

LOADING SHOVEL EXCAVATING FORCE

Arm crowding force on ground 700 kN (71 320 kgf, 157,234 lbf.)

Bucket digging force

737 kN (75 120 kgf, 165,611 lbf.)

BACKHOE EXCAVATING FORCE

SAFETY

Hitachi's ultimate priority is always safety. That's why the EX2000-7 has a range of safety features, like spacious walkways, improved handrails and a dual isolator switch as standard, to make it one of the safest excavators in its class on the market.



DUAL ISOLATOR SWITCH

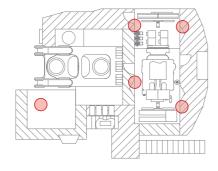
The conveniently located dual isolator switch offers the option to deactivate the engine and battery individually.

When inspections and maintenance are required, the battery isolator provides the benefit of isolating both the positive and negative terminals of the battery for a safe working environment. The engine isolator deactivates the engine starter motor while allowing battery power to the electric system for troubleshooting, to enhance safety and maintainability.



ON-BOARD INCLINOMETER

The on-board inclinometer assists the operator to work within the safe limits of the machine, with two predetermined safety limits providing extra assurance. If the first safety limit is exceeded, the operator receives a visual alert prompting them to take corrective action. The alert escalates to an audible alarm if the second safety limit is breached.



ENGINE STOP SWITCHES

Engine stop switches have been placed in easily accessible areas: two in the engine room, two in the pump room, and one emergency stop switch in the cab.



PERIMETER MONITORING CAMERAS (OPTIONAL)

Optional perimeter monitoring cameras offer better visibility of a surrounding area, reducing blind spots for the operator. Two cameras are located at both the front and rear of the excavator and are linked to monitors inside the cab.

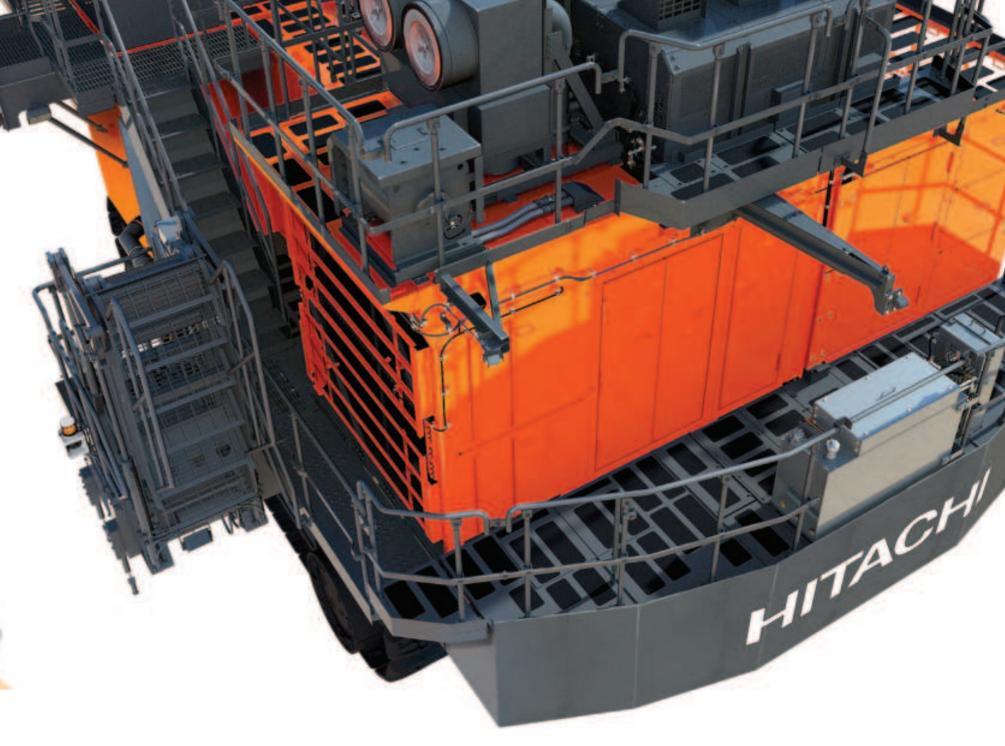


Anti-slip walkways and specially designed handrails reduce the risk of tripping when maneuvering around the machine and provide ease of access for operators and maintenance personnel.

Hydraulically operated, electrically controlled folding stairs allow for easy and safe access to the machine.



An escape chute can be added to the side of the cab for use in an emergency. The chute allows evacuees to descend vertically down from the machine, providing a safe and fast route of escape when all other means of exit are blocked.



OPERATOR COMFORT

Hitachi's EX-7 series provides operators with a superior level of comfort. Electronic joysticks, an intelligent Multi-Functional Display, advanced air suspension seating, and improved climate control make operation of the EX2000-7 effortless and productive.



CLIMATE CONTROLLED AIR CONDITIONING

The pressurized cab's climate controlled air conditioning helps to overcome environmental extremes. Optimized filtering of interior and exterior air combined with the new flexi-vent system provides a personalized and balanced environment that meets operator demands.



OPERATOR SEAT

Specifically designed for use in the mining industry, the automatic weight-adjusting air suspension seat calculates optimal cushioning to match the operator's weight, enhancing comfort and minimizing vibration.



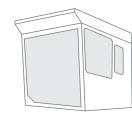
ELECTRONIC JOYSTICKS

Integrated electronic joysticks connected to the machine's microprocessor enable precise and almost effortless operation, minimizing operator fatigue and improving operational performance.



ROLL SCREENS

Retractable front and side roll screens protect the operator from UV glare and reduce heat buildup in the cab, improving the efficiency of the climate controlled air conditioner for a superior operating environment.



OPERATOR CABIN

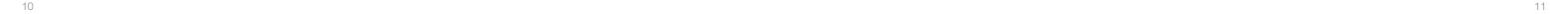
The use of laminated tinted windows reduce heat and glare in the cab, while sound-suppression further enhances ergonomics and comfort for the operator.

OPG top guard level II compliant with ISO 10262:1998 provides secure protection from falling objects, ensuring operator safety.



Fitted with an LED back-light to improve clarity and reduce glare, the multi-functional display provides key machine information and performance indicators through use of an integrated dial switch interface.

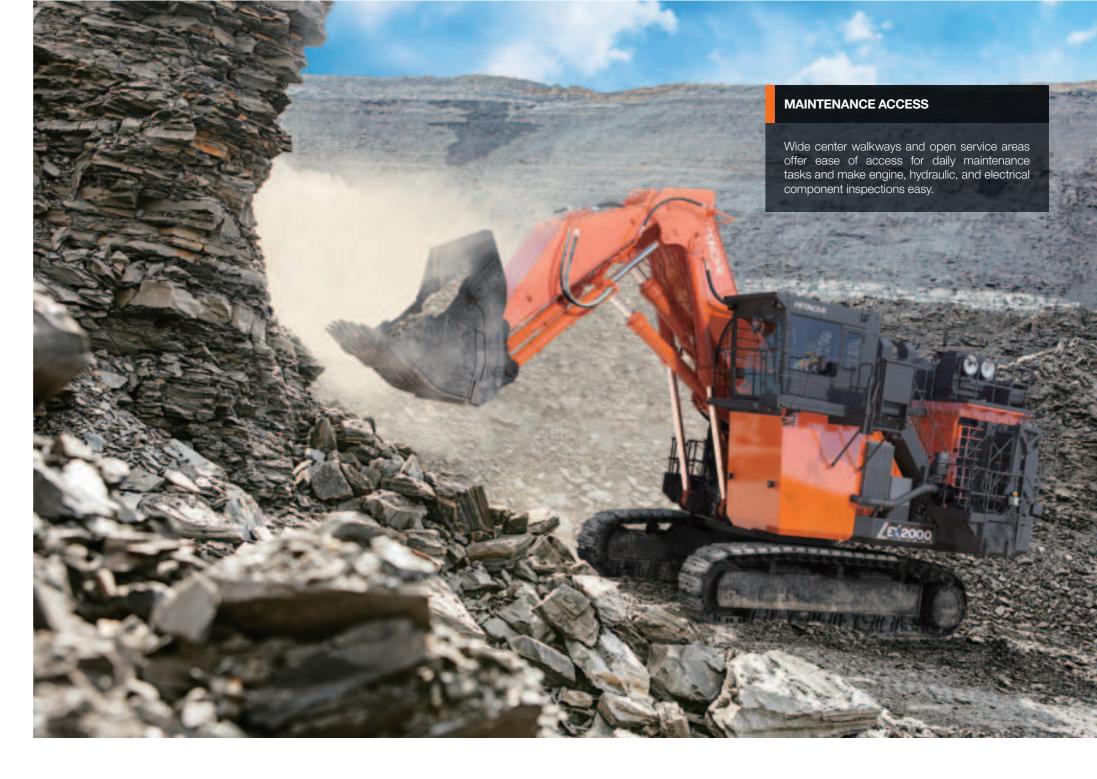




EASE OF MAINTENANCE

Hitachi's EX-7 series is designed to safeguard and simplify maintenance with its intuitive design. A modular arrangement with spacious passageways and work platforms makes the EX2000-7 easy and safe to maintain.







CONTAMINATION SENSORS

Contamination sensors are located on main hydraulic pumps, travel motors and swing motors to detect any contaminants that may cause damage to the hydraulic system. Sensors alert the operator of potential contaminants and record the fault code in the Data Logging Unit (DLU), with the capability to remotely advise maintenance personnel.



CENTRALIZED LUBRICATION SYSTEM

The centralized fast-filling system provides easy access from the ground to refill and evacuate lubricants, water, grease and fuel. The fast-filling system can be fitted with an optional quick coupler.



LUBRICATION PIPING COVER

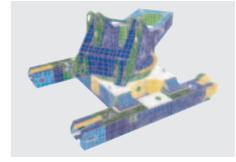
A swing circle cover has been added to the The new center joint employs the outside of the swing bearing, protecting the lubrication piping from debris damage.



GREASE-LESS CENTER JOINT

machine's hydraulic oil to self-lubricate, reducing the need for daily maintenance.





RIGID BOX DESIGN

Computer assisted analysis has been Hitachi's exclusive center track frame used to determine the most effective design for frame longevity, ensuring the the use of specially designed forged steel EX2000-7 withstands the demands of any mining operation.



CENTER TRACK FRAME

delivers optimal stress dispersion through parts to reduce the chance of failure in critical high-stress areas. This guarantees a stronger frame with improved durability.



UPPER ROLLERS

The EX2000-7 undercarriage has three The oil-filled idlers and upper and lower double-sided, pedestal-designed upper rollers eliminate the need for daily lubrication, rollers on each side of the track frame. helping reduce maintenance costs. These rollers maintain track shoe clearance and provide protection from debris buildup, reducing shoe and roller wear for a more reliable undercarriage system.



OIL-FILLED ROLLERS & IDLERS



TRACK LINK

Hitachi's classic track link design has been applied to mitigate premature wear of the drive-lugs. Each shoe is induction hardened protects hoses and accumulators located using Hitachi's proven methods to deliver a superior and more durable solution.



CENTER FRAME UNDERGUARD (OPTIONAL)

A newly designed heavy duty guard in the track center frame from rocks and debris ingress, providing extra protection and reliability.

designed for **DURABILITY**

Hitachi's EX-7 excavators are built to last under the toughest of conditions. Advanced computer modelling, specialized forgings, and specially designed track shoes are just some of the features that maximize longevity and contribute to a low cost per hour on the EX2000-7.



STRONG MAINFRAME

The EX2000-7 features a stronger, more durable mainframe than previous models. Stress is now more evenly dispersed across the improved frame shape, increasing machine durability and reducing downtime.

REINFORCED ARM & BOOM

The connection between the EX2000-7 arm and boom has been upgraded from one connecting pin to two connecting pins, increasing front attachment durability.

RELIABILITY

Evolving from years of operational experience and engineering excellence, the Hitachi EX-7 series of excavators continue to drive innovation in the mining industry. The EX2000-7 combines cutting-edge technologies with proven designs for superior operation that can be counted on.

ELECTRONIC CYLINDER STROKE CONTROL

The new on-board electronic controller receives signals from angle sensors fitted to the main frame, boom and arm to control the pump flow rate and cylinder speed. Shock at stroke end of the cylinder cycle is reduced, improving operator comfort and lowering impact on cylinders and structures for more reliable operation.



FRONT ATTACHMENT HOSES

Hitachi's hose design has been tested on a high cyclic fatigue rate to maximize longevity and improve safety. Front attachment hoses have been rearranged from the traditional arch style to an underslung configuration, removing the need for clamping, reducing chafing and increasing reliability.



OPERATING LIGHTS

Strategically placed long-life LED working lights provide assured reliability for night operations.



CAB RISER PRESSURIZER

The cab riser now features a pressurizer system to reduce dust infiltration, extending service life of the electronic components and devices within.



INTELLIGENCE

Hitachi is dedicated to the advancement of mining through digital innovation and connectivity. The EX2000-7 features extensive onboard sensors, diagnostic tools, and advanced software to deliver exceptional insights, empowering operations to achieve more in real time.



ANTENNA (GPRS) OR SATELLITE

SATELLITE / GPRS COMMUNICATION (OPTIONAL)

Standard machine information is transmitted daily through either satellite or GPRS (General Packet Radio Service) communication, sending data directly to the Hitachi Global e-Service platform to support the mining operation.

Globale-Service

Global e-Service is a Hitachi web-based platform that sends vital machine information directly to the customer in a readily accessible format.

WIRELESS INTERFACE (OPTIONAL)

Detailed machine information can be remotely downloaded from the Data Logging Unit (DLU) via the Wireless Interface Unit (WIU), providing vital operational and performance data.



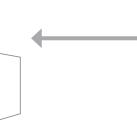


INFORMATION CENTER, HITACHI CONSTRUCTION **MACHINERY**

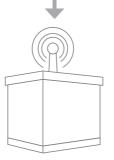


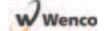


FLEET MANAGEMENT SYSTEM









The DLU can be combined with Wenco or another third party fleet management system to provide live operational and performance information, assisting with fleet management.

CUSTOMER



Aerial Angle (OPTIONAL)

Aerial Angle provides the operator with a real-time continuous birds-eye view around their excavator. Cameras strategically mounted on the machine generate a single aerial view of the EX2000-7 surroundings. Multiple screen display options can be selected on the cab's 12-inch Aerial Angle monitor for ease of operation.

HITACHI CONSTRUCTION **MACHINERY GROUP**

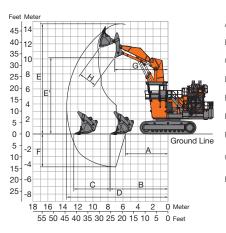
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SPECIFICATIONS

WORKING RANGES

Loading Shovel



Bucket Capacity 12 0 m³ ISO 7456 (Heaped 2:1) (15.7 cu. yd.) 5 660 mm (18 ft. 7 in.)

Minimum Digging Minimum Level

7 720 mm Crowding Distance (25 ft. 4 in.) Level Crowding 4 830 mm (15 ft. 10 in.) Distance

Maximum Digging D:

Maximum Cutting 14 670 mm Height (48 ft. 2 in.) Maximum Dumping 10 160 mm Height (33 ft. 4 in.)

Maximum Digging 4 380 mm (14 ft. 4 in.) Depth . Working Radius at 7 130 mm (23 ft. 5 in.) Maximum Dumping

Height Maximum Bucket 2 380 mm (7 ft. 10 in.) Openina Width 700 kN

Arm crowding force (71 320 kgf, 157,234 lbf.) on ground

737 kN (75 120 kgf, 165,611 lbf.)

8.3 m (27 ft. 3 in.)

3.6 m (11 ft. 10 in.)

(15.7 cu. yd.)

15 340 mm

(50 ft. 4 in.)

14 870 mm

(48 ft. 9 in.)

8 090 mm

(26 ft. 7 in.)

7 970 mm

(26 ft. 2 in.)

14 370 mm

(47 ft. 2 in.)

9 360 mm (30 ft. 9 in.)

4 220 mm (13 ft. 10 in.)

7 310 mm

3 010 mm (9 ft. 11 in.)

5 910 mm

701 kN

(19 ft. 5 in.)

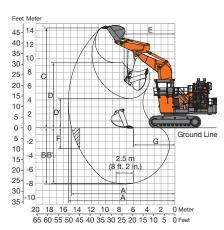
(24 ft.)

12 0 m³

13 490 mm

(44 ft. 3 in.)

Backhoe



BE-boom length BE-arm length

Bucket digging force

Bucket capacity (ISO 7451: 2007) Maximum Digging

Maximum Digging Reach (on ground) Maximum Digging Depth

Maximum Digging Depth (2.5 m (8 ft. 2 in.) level) Maximum Cutting

C: Height Maximum Dumping D: Height

Minimum Dumping Height

Minimum Swina Radius Maximum Vertical Wall

Minimum Level Crowding Distance Bucket Digging

(71 500 kgf, 157,631 lbf.) Force (ISO 6015: 2006) 628 kN (64 700 kgf, 142,639 lbf.) Arm Crowd Force (ISO 6015: 2006)

HYDRAULIC SYSTEM

Main Pumps	6 variable-displacement, axial piston pumps			
	for front attachment, travel and swing			
Pressure setting	29.4 MPa (300 kgf/cm ² , 4,264 psi)			
Max. oil flow	6 x 335 L/min. (6 x 88 gal./min.)			

UNDERCARRIAGE

High: 0-2.8 km/h (0-1.7 mph) Travel speeds Low: 0-2.1 km/h (0-1.3 mph)

WEIGHTS AND GROUND PRESSURE

Loading Shovel

Equipped with 12.0 m³ (15.7 cu. yd.) ISO 7546 Heaped 2:1 bottom dump bucket

Shoe width	Weight	Ground pressure	
800 mm	194 000 kg	187 kPa	
(32 in.)	(427,697 lb.)	(1.90 kgf/cm ³ , 27.1 psi)	

Backhoe

Equipped with 12.0 m³ (15.7 cu. yd.) ISO 7451: 2007 bucket

Shoe width	Weight	Ground pressure
800 mm	195 000 kg	188 kPa
(32 in.)	(429,901 lb.)	(1.91 kgf/cm ³ , 27.3 psi)
Cumming T4E configuration		

Loading Shovel:

ISO 7546 Heaped 2:1:

ATTACHMENTS

12.0 m³ (15.7 cu. yd.): Material density 1 800 kg/m³ (3,034 lb./cu. yd.) or less 13.5 m³ (17.7 cu.yd.): Material density 1 600 kg/m³ (2,697 lb./cu.yd.) or less

Backhoe:

ISO 7451: 2007:

12.0 m³ (15.7 cu. yd.): Material density 1 800 kg/m³ (3,034 lb./cu. yd.) or less 14.0 m³ (18.3 cu.yd.): Material density 1 600 kg/m³ (2,697 lb./cu.yd.) or less

ENGINE

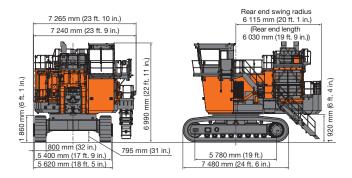
Model Cummins QST30-C (FCO, T4F/EU Stage V)

Rated power

ISO 14396: 2002, gross ... 746 kW (1 014 PS, 1 000 HP)

at 1 800 min-1 (rpm) Piston displacement 30.5 L (1,861 cu.in.)

DIMENSIONS



UPPER STRUCTURE

Swing speed 4.7 min⁻¹ (rpm) Fuel tank capacity 3 690 L (975 gal.)

DEF tank capacity

(T4F / EU Stage V only) 241 L (64 gal.)

ENVIRONMENT

Auto control air conditioner contains fluorinated greenhouse gases.

Refrigerant type HFC-134a GWP 1430

2.80 kg (6.17 lb.) CO₂e 4.00 tonnes (4.41 tons)

PASS MATCH

Best match: 4-6 passes Potential match: 3-8 passes

	Model	60t class truck	100t class truck	EH3500AC-3	EH4000AC-3
EX1200-7	BH 7.0 m ³ (9.2 cu. yd.)	5			
LX1200-7	LD 6.5 m³ (8.5 cu. yd.)	6			
EX2000-7	BH 12.0 m ³ (15.7 cu. yd.)	3	5		
	LD 12.0 m ³ (15.7 cu. yd.)	3	5		
EX2600-7	BH 17.0 m ³ (22.2 cu. yd.)		3	6	8
	LD 15.0 m ³ (19.6 cu. yd.)		4	8	

Before using a machine with a satellite communication system or telecommunication system, please make sure that the satellite communication system or telecommunication system complies with local regulations, safety standards and legal requirements. If not so, please make modifications accordingly.

These specifications are subject to change without notice. Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features. Before use, read and understand the Operator's Manual for proper operation.