

HITACHI

Reliable solutions

EX2600-7



Bucket Capacity: SHOVEL (ISO HEAPED): 15 - 16.5 m³ (19.6 - 21.6 cu. yd.)
BACKHOE (ISO HEAPED): 17 m³ (22.2 cu. yd.)

Operating Weight: CUMMINS

FT4 SHOVEL: 259 000 kg (570,997 lb.)
FT4 BACKHOE: 257 000 kg (566,588 lb.)
FCO SHOVEL: 258 000 kg (568,793 lb.)
FCO BACKHOE: 256 000 kg (564,383 lb.)

MTU

FT4 SHOVEL: 261 000 kg (575,407 lb.)
FT4 BACKHOE: 259 000 kg (570,997 lb.)
FCO SHOVEL: 260 000 kg (573,202 lb.)
FCO BACKHOE: 258 000 kg (568,793 lb.)

Rated Power: CUMMINS: 1119 kW (1,500 hp)
MTU: 1150 kW (1,542 hp)
ELECTRIC: 860 kW (1,153 hp)

MINING EXCAVATORS

ROCK-SOLID PERFORMANCE.

Hitachi's EX-7 Series is designed from more than 100 years of group company expertise, integrating efficiency, reliability and durability. Available as a backhoe or shovel, the EX2600-7 reduces fuel consumption by 8 percent.* Plus, it features productivity-boosting advantages like an improved hydraulic system, engine options and simplified maintenance.

The EX2600-7 is a
 **RELIABLE
WORKHORSE.**

FUEL-EFFICIENT. ENERGY- OPTIMIZED.

Hitachi's latest energy optimizing features provide a sustainable solution for the mining industry. The EX2600-7 includes electronically controlled hydraulic pumps, an optimized cooling package, enhanced hydraulic circuits, and a choice of emission configurations to meet regulations and reduce your fuel consumption by 8 percent.*

This excavator delivers
■ EFFICIENT PERFORMANCE.



FUEL-EFFICIENT ENGINE OPTIONS
Choose from a Cummins or MTU Final Tier 4 (FT4) engine or a Cummins or MTU Fuel-Calibration Optimization (FCO) option for fuel-efficient operation.

ELECTRIC MOTOR OPTION
The EX2600-7E electric excavator option with a Hitachi AC electric motor is available.

MAIN PUMP ELECTRIC REGULATORS
Each individually controlled hydraulic pump utilizes its own electric regulator. This delivers enhanced engine power, lower fuel consumption and lower 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. This lowers fuel consumption and improves pump life.

HYDRAULIC OIL COOLER
A larger hydraulic oil cooler with variable speed fan reduces energy demand. The oil cooler is separated from the radiator, increasing efficiency and life of the hydraulics as well as reducing maintenance time.

RADIATOR FAN CLUTCH
The radiator fan clutch and variable speed fan are specifically tailored to engine cooling requirements, resulting in an optimized cooling system with less engine horsepower demand and less operational noise.



GOING ABOVE AND BEYOND.

Mining is a very demanding industry, which is why Hitachi's EX-7 excavators go above and beyond project requirements to deliver maximum performance. The EX2600-7 is packed with efficient features to meet any challenge.

The EX2600-7 gives you
■ **PRODUCTIVITY ON-DEMAND.**

**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.

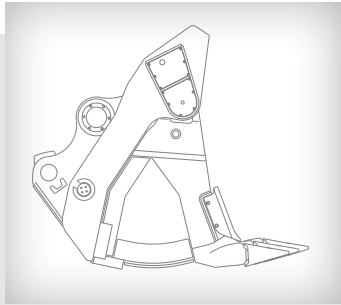
FRONT ATTACHMENT

With a front attachment design that prioritizes performance, the EX2600-7 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.

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.

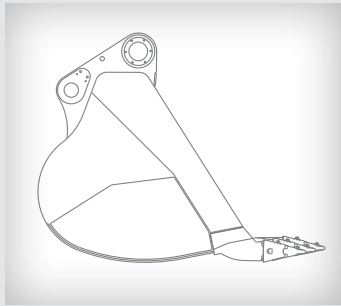


SHOVEL DESIGN

The Loading Shovel attachment is equipped with an auto-leveling crowd mechanism that controls the bucket at a constant angle. The bucket has been designed to enhance loading capability with a tilt angle that enhances operational efficiency.

SHOVEL EXCAVATING FORCE

Arm crowding force on ground
918 kN/93 600 kgf (206,375 lbf.)
Bucket digging force
943 kN/96 200 kgf (211,995 lbf.)



BACKHOE DESIGN

The Backhoe attachment is designed using computer aided box frame analysis to determine the optimal structure for integrity and longevity. Complete with floating pin and bush, the bucket has been designed to match the geometry of the attachment to maximize productivity.

BACKHOE EXCAVATING FORCE

Arm crowding force
785 kN/80 000 kgf (176,475 lbf.)
Bucket digging force
830 kN/84 600 kgf (186,591 lbf.)

DEPENDABLE DESIGN.
SAFE OPERATION.

The EX2600-7 is not only designed for reliability, it also allows for ultimate control and safe operation. Intuitive and advanced features empower the operator to personalize their work environment for increased productivity.

The EX2600-7 offers
■ OPTIMIZED WORKFLOW.



DUAL ISOLATOR SWITCH

The dual isolator switch can deactivate the engine and battery individually. The battery isolator isolates the positive and negative battery terminals for safe inspections. The engine isolator deactivates the engine starter motor while allowing battery power to the electric system.



PERIMETER MONITORING CAMERAS

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.



ON-BOARD INCLINOMETER

The on-board inclinometer offers two predetermined safety limits to assist the operator. If the first safety limit is exceeded, the operator receives a visual alert prompting corrective action. The alert escalates to an audible alarm if the second safety limit is breached.

ENGINE STOP SWITCHES

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

ACCESS AND WALKWAYS

Anti-slip walkways, handrails and hydraulic folding stairs contribute to safe machine accessibility for operators and maintenance personnel.

EMERGENCY ESCAPE CHUTE

An escape chute has been 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.

OPERATING LIGHTS

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

MAXIMUM COMFORT. MAXIMUM PRODUCTIVITY.

The EX2600-7 operating environment is engineered with a superior level of comfort. The ergonomic layout, multi-functional display, advanced air suspension seating and enhanced climate control system helps decrease fatigue and increase productivity.

Comfortable cabs mean
 **PRODUCTIVE OPERATORS.**



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.

CLIMATE CONTROLLED AIR CONDITIONING

The pressurized cab's climate controlled air conditioning optimizes filtering of interior and exterior air. Plus, a new flexi-vent system provides a personalized environment.

OPERATOR SEAT

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.

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.

MULTI-FUNCTIONAL DISPLAY

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.

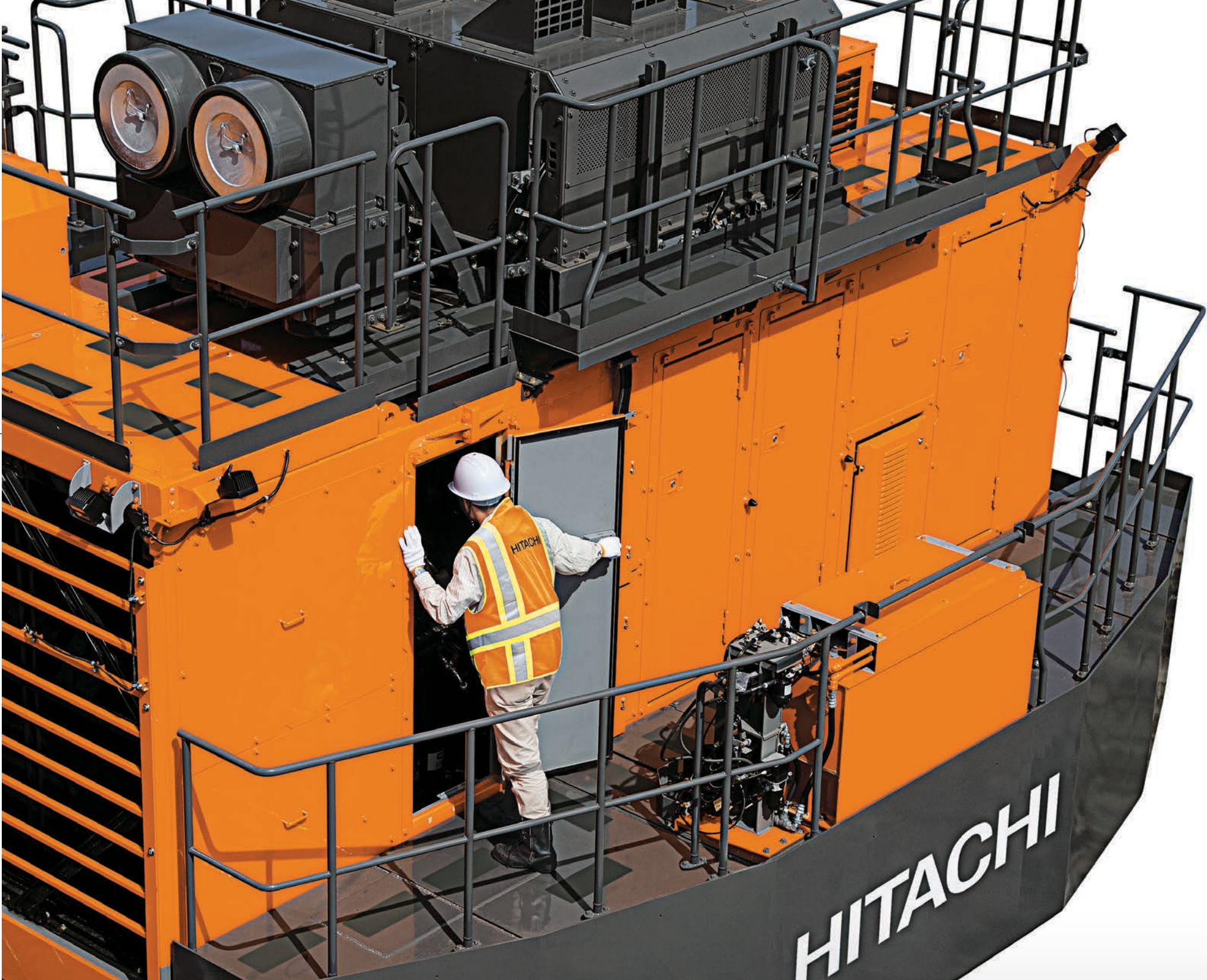
OPERATOR CABIN

Laminated, tinted windows reduce heat and glare. The Level II Operator Protective Guard (OPG) provides secure protection from falling objects, ensuring operator safety.

SIMPLIFIED MAINTENANCE. IMPROVED UPTIME.

Hitachi is focused on safe and simplified maintenance. That's why the EX2600-7 is designed for easy upkeep with features like spacious walkways, maintenance alerts, a centralized lubrication system and more.

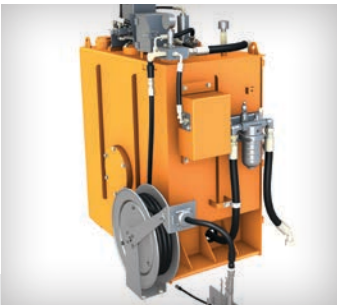
Minimized maintenance keeps you
■ UP AND RUNNING.



GREASE-LESS CENTER JOINT
The new center joint uses the machine's hydraulic oil to self-lubricate, reducing the need for daily maintenance.



LUBRICATION PIPING COVER
A swing circle cover has been added to the outside of the swing bearing, protecting the lubrication piping from debris damage.



AUTO-LUBRICATION SYSTEM
A new auto-lubrication system comes with 380 L (100.4 gal.) large capacity grease tank, new grease pump, in-line grease filter with breather, grease level indicator in cab and provision for fitment of a second grease pump in the lubrication tank. These features provide a more reliable system with less downtime.

CONTAMINATION SENSORS
Contamination sensors are located on main hydraulic pumps, travel motor and swing motor to detect any contaminants that may cause damage to the hydraulic system. The sensors alert the operator and record the fault code in the Data Logging Unit (DLU).

FAST-FILLING 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.

SOLID CONDUIT WIRE HARNESSES
Newly introduced solid conduit harnesses and junction boxes prevent dust and moisture ingress, improving longevity. Electrical harnesses between junction boxes can be replaced individually, reducing maintenance time and cost.

BUILT TO OUTWORK AND OUTLAST.

A machine is only as productive as its lifespan, which is why Hitachi's EX-7 excavators are built to last in the toughest conditions. Advanced computer modelling, specialized forgings, and pedestal design track shoes are just some of the features that give the EX2600-7 unmatched durability.

This workhorse has
 **BUILT-IN TOUGHNESS.**



OIL-FILLED ROLLERS & IDLERS

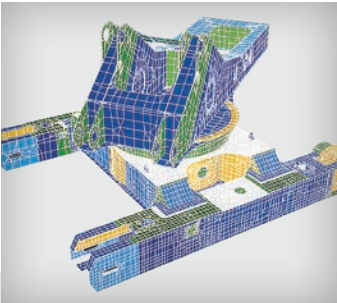
The oil-filled idlers and upper and lower rollers eliminate the need for daily lubrication, helping reduce maintenance costs.

CENTER TRACK FRAME

Hitachi's exclusive center track frame delivers optimal stress dispersion, through the use of specially designed forged steel parts, to reduce the chance of failure in critical high-stress areas.

UPPER ROLLERS

The EX2600-7 undercarriage has three double-sided, pedestal-designed upper rollers on each side of the track frame. These rollers maintain track shoe clearance and provide protection from debris buildup, reducing shoe and roller wear.



RIGID BOX DESIGN

Computer assisted analysis has been used to determine the most effective design for frame longevity, ensuring the EX2600-7 withstands the demands of any mining operation.



TRACK SHOES

Hitachi's classic track shoe design helps reduce premature wear of the drive-lugs. Each shoe is induction hardened to deliver a superior and more durable solution.

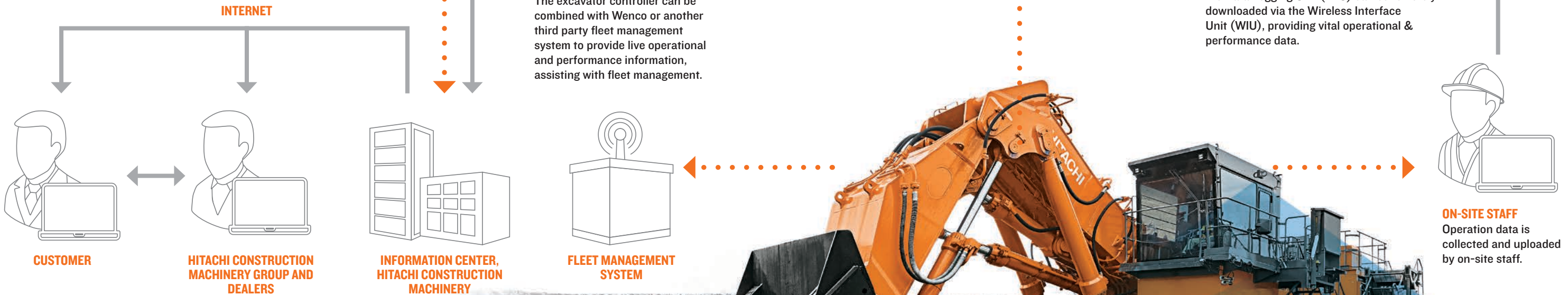


CENTER FRAME UNDERGUARD

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

INTELLIGENT SYSTEMS FOR RAPID RESPONSE.

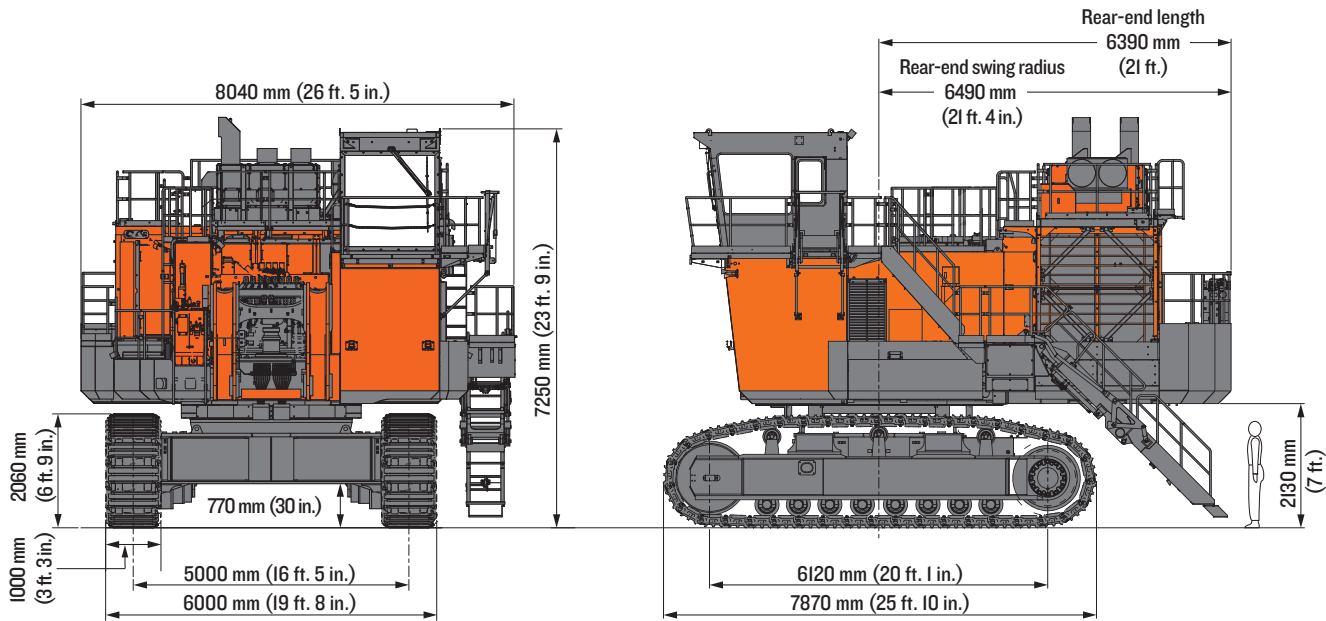
Hitachi's EX-7 Series of excavators connect physical and digital technologies to drive transformation in the mining industry. Utilizing extensive onboard sensors, diagnostic tools, real-time data and advanced software, the EX2600-7 helps optimize your operation.



Aerial Angle

Aerial Angle (optional) 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 EX2600-7 surroundings. Multiple screen display options can be selected on the cab's 7-inch Aerial Angle monitor for ease of operation.

EX2600-7



ILLUSTRATIONS SHOW DIESEL ENGINE MACHINE

Diesel Engine	EX2600-7			
Manufacturer and Model	Cummins QSKTA50-CE	Cummins QSKTA50-CE	MTU 12V 4000 C15	MTU 12V 4000 C13R
Type	4 cycle	4 cycle	4 cycle	4 cycle
Aspiration	Water-cooled, 16-cylinder turbo-charged and after-cooled, direct injection chamber-type diesel engine, urea SCR system, fan clutch	Water-cooled, 6-cylinder in line, turbocharged direct injection chamber-type diesel engine, urea SCR system	Water-cooled, 12-cylinder 2-stage turbo-charged and after-cooled, direct injection chamber-type diesel engine, Miller cycle, cooled EGR, fan clutch	Water-cooled, 12-cylinder turbo-charged and after-cooled, direct injection chamber-type diesel engine, fan clutch
Emission Certification	U.S.EPA Tier 4 Final	FCO (Fuel Consumption Optimization)	U.S.EPA Tier 4 Final	FCO (Fuel Consumption Optimization)
Rated Power				
Gross power (ISO 14396)	1119 kW (1,500 hp) at 1800 min ⁻¹ (rpm)	1119 kW (1,500 hp) at 1800 min ⁻¹ (rpm)	1150 kW (1,542 hp) at 1800 min ⁻¹ (rpm)	1150 kW (1,542 hp) at 1800 min ⁻¹ (rpm)
Net	1069 kW (1,434 hp) at 1800 min ⁻¹ (rpm)	1069 kW (1,434 hp) at 1800 min ⁻¹ (rpm)	1087 kW (1,458 hp) at 1800 min ⁻¹ (rpm)	1087 kW (1,458 hp) at 1800 min ⁻¹ (rpm)
Maximum torque	6570 Nm (670 kgf-m) at 1400 min ⁻¹ (rpm)	6570 Nm (670 kgf-m) at 1400 min ⁻¹ (rpm)	7351 Nm (750 kgf-m) at 1494 min ⁻¹ (rpm)	7351 Nm (750 kgf-m) at 1494 min ⁻¹ (rpm)
Piston displacement	50 L (13.2 gal.)	50 L (13.2 gal.)	57.2 L (15.1 gal.)	57.2 L (15.1 gal.)
Bore and stroke	159 mm x 159 mm (6.3 in. x 6.3 in.)	159 mm x 159 mm (6.3 in. x 6.3 in.)	170 mm x 210 mm (6.7 in. x 8.3 in.)	170 mm x 210 mm (6.7 in. x 8.3 in.)
Starting system	24 V electric motor	24 V electric motor	24 V electric motor	24 V electric motor
Batteries	4 x 12 V, 4 x 220 AH	4 x 12 V, 4 x 220 AH	4 x 12 V, 4 x 220 AH	4 x 12 V, 4 x 220 AH
Electric Motor	EX2600-7E			
Manufacturer and Model	HITACHI TFOA-KK			
Type	High Voltage, Three Phase, Squirrel Cage Induction Motor, Totally Enclosed Air-to-Air-Cooled (TEAAC).			
Rating				
Rated continuous output	860 kW			
Voltage	AC 6000 - 6600 V/50 Hz AC 6000 - 6600 V/60 Hz			
Number of poles	4			
Synchronous RPM	1500 min ⁻¹ /50 Hz 1800 min ⁻¹ /60 Hz			
Rated current	92 A @ 6600 V			
Insulation class	F class B raise			
Space heater included.				
Thermo-guard (temperature detector)				
Starting condition	Reactor 50% tap			

Hydraulic System

Hitachi's ETS (Electronic Total control System) can achieve maximum job efficiency by reducing fuel consumption and noise levels, while maximizing productivity through the optimization of engine-pump functions with excellent controllability increasing operator comfort.

Computer-Aided Engine-Pump Control System (E-P)

Main pumps regulated by electric engine speed sensing control system.

Optimum Hydraulic System (OHS)

6 main pumps and 3 valves system enable both independent and combined operations of all functions.

Additional Features

FPS (Fuel-saving Pump System) FPS minimizes energy loss with superior performance in fine control.

Auto-idling system for saving fuel and reducing noise.

Hydraulic drive cooling-fan system for oil cooler.

Forced-lubrication and forced-cooling pump drive system.

Regeneration circuit for boom down.

Main Pumps

Six variable-displacement, axial piston pumps for front attachment, travel and swing

Maximum oil flow
4 x 375 L/min. (4 x 99.1 gal./min.),
2 x 425 L/min. (2 x 112.3 gal./min.)

Pilot Pump

Gear pump

Maximum oil flow
108 L/min. (28.5 gal./min.)

Relief Valve Settings

Implement circuit
29.4 MPa (300 kgf/cm²) (4,264 psi)

Travel circuit
27.4 MPa (280 kgf/cm²) (3,973 psi)

Swing circuit
29.4 MPa (300 kgf/cm²) (4,264 psi)

Pilot circuit
3.9 MPa (40 kgf/cm²) (566 psi)

Hydraulic Cylinders

High-strength piston rods and tubes adopted. Cylinder cushion mechanisms are provided for boom, arm, bucket and dump cylinders. Bucket cylinders of loading shovel are provided with protector.

Cylinder Dimensions (Backhoe)

	Quantity	Bore	Rod Diameter
Boom	2	310 mm (12.2 in.)	230 mm (9 in.)
Arm	2	280 mm (11 in.)	200 mm (7.9 in.)
Bucket	2	230 mm (9 in.)	170 mm (6.7 in.)

Cylinder Dimensions (Loading Shovel)

	Quantity	Bore	Rod Diameter
Boom	2	310 mm (12.2 in.)	230 mm (9.1 in.)
Arm	1	280 mm (11 in.)	210 mm (8.3 in.)
Bucket	2	250 mm (9.8 in.)	180 mm (7.1 in.)
Dump	2	215 mm (8.5 in.)	130 mm (5.1 in.)
Level	1	310 mm (12.2 in.)	230 mm (9.1 in.)

Hydraulic Filters

All hydraulic circuits have high-quality hydraulic filters for protection against oil contamination and longer life of hydraulic components. Filters are centralized for convenient maintenance.

	Quantity	
Full flow filter	3	10 μm
High pressure strainer (In main & swing pump delivery line)	6	120 μm
Drain filter (For all plunger type pumps & motors)	1	10 μm
By-pass filter (In oil cooler by-pass line)	1	5 μm
Pilot filter	1	10 μm

Controls

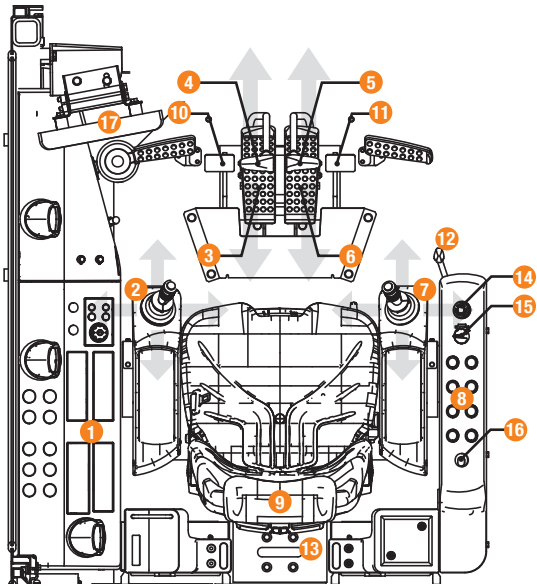
Two Implement Levers

Electric joystick control levers. Right lever is for boom and bucket control, left lever for swing and arm control. For loading shovel, 2 pedals provided for opening/closing the bottom dump bucket.

Two Travel Levers with Pedals

Remote-controlled hydraulic servo system. Independent drive at each track allows counter rotation of tracks.

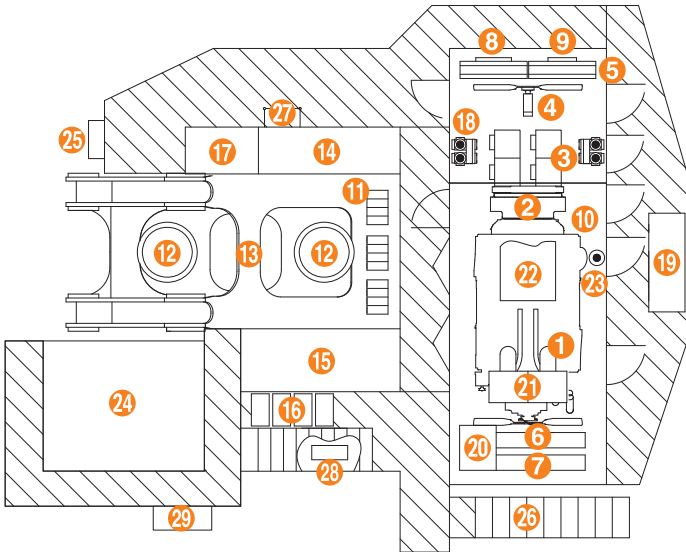
- Left Console
- Left Control Lever/Horn Switch
- Left Travel Pedal
- Left Travel Lever
- Right Travel Lever
- Right Travel Pedal
- Right Control Lever/Horn Switch
- Right Console
- Operator's Seat
- Bucket Close Pedal (for Loading Shovel)
- Bucket Open Pedal (for Loading Shovel)
- Pilot Control Shut-Off Lever
- Rear Console
- Emergency Engine Stop Switch
- Engine Speed Control Dial
- Key Switch
- Monitor Display



DIESEL ENGINE CONTROLS

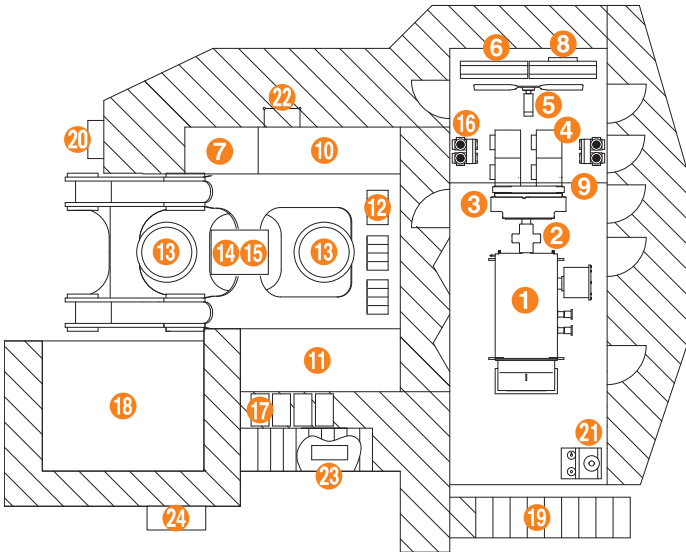
EX2600-7

Upperstructure		EX2600-7
Revolving Frame		Deep, full-reinforced box section. Heavy-gauge steel plates used for ruggedness.
Deck Machinery		Maintenance accessibility is the major feature in the lay-out of deck machinery. Sidewalks provide easy access to engine, hydraulic, and electrical components. ISO-met stairs and handrails. Sidewalks and stairs are provided with skid-resistant plates.
1	Diesel Engine	
2	Pump Drive Unit	
3	Hydraulic Pump x 6	
4	Hydraulic Oil Cooling Fan Motor	
5	Hydraulic Oil Cooler	
6	Engine Radiator	
7	LTA Radiator	
8	Fuel Cooler	
9	Pump Transmission Oil Cooler	
10	Engine-Pump Bulkhead	
11	Control Valve x 3	
12	Swing Device x 2	
13	Center Joint	
14	Hydraulic Tank	
15	Fuel Tank	
16	Battery	
17	Lubricator	
18	High Pressure Strainer x 6	
19	DEF Tank (Only for Cummins Tier 4 F)	
20	Reserve Tank (Coolant)	
21	Air Filter x 2 (Outer/Inner)	
22	Muffler	
23	Fuel Filter	
24	Cab	
25	Ladder	
26	Folding Stairs	
27	Ladder	
28	Isolation SW Box	
29	Emergency escape chute	



DECK MACHINERY
FOR DIESEL ENGINE MACHINE

Upperstructure		EX2600-7E
Revolving Frame		Deep, full-reinforced box section. Heavy-gauge steel plates used for ruggedness.
Deck Machinery		Maintenance accessibility is the major feature in the lay-out of deck machinery. Sidewalks provide easy access to engine, hydraulic, and electrical components. ISO-met stairs and handrails. Sidewalks and stairs are provided with skid-resistant plates.
1	Main Motor	
2	Coupler	
3	Pump Drive Unit	
4	Hydraulic Pump x 6	
5	Hydraulic Oil Cooling Fan Motor	
6	Hydraulic Oil Cooler x 2	
7	Lubricator	
8	Pump Transmission Oil Cooler	
9	Motor-Pump Bulkhead	
10	Hydraulic Oil Tank	
11	Cubicle	
12	Control Valve x 3	
13	Swing Device x 2	
14	Slip Ring	
15	Center Joint	
16	High-Pressure Strainer x 6	
17	Battery	
18	Cab	
19	Folding Stairs	
20	Ladder	
21	Cab Heater Unit	
22	Ladder	
23	Isolation SW Box	
24	Emergency escape chute	



DECK MACHINERY
FOR ELECTRIC MOTOR MACHINE

Swing Device	
Two high-torque, axial-piston motors with two-stage planetary gear bathed in oil. Swing circle with dirt seals is a heavy-duty, triple-row, cylindrical roller bearing. Induction-hardened internal swing circle gear and pinion immersed in lubricant. Parking brake of spring-set/hydraulic-released disc type. This parking brake is manually releasable.	
Swing speed	4.1 min ⁻¹ (rpm)
Operator's Cab	
The sturdy cab, with OPG top guard level II (ISO), helps protect the operator from falling objects. Independent, pressurized, 1800-mm (5 ft. 11 in.) width, 2150-mm (7 ft. 1 in.) height, roomy 7.5 m ³ (9.8 cu. yd.) cab with tinted-glass windows features all-round visibility. Air-suspension type, fully adjustable reclining seat with armrests; movable with or without front and swing control levers by slide. Instruments and control panel are within easy reach of the operator. 3 air conditioner system.	
Noise level	72 dB (A) in the cab at maximum engine speed under no-load condition
Eye level height	6290 mm (20 ft. 8 in.)

Undercarriage	
Tracks	
Shovel-type undercarriage. Dual-flanged-type bolt linkage for side frame and X-form center frame assures durability. Heavy-duty track frame of all-welded, stress-relieved structure. Top-grade materials used for toughness. Lifetime-lubricated induction-hardened track rollers, idlers and drive tumblers with floating seals. Opposed double-type upper rollers for easy removal of mud. Track shoes of induction-hardened cast steel with triple grousers. Specially heat-treated connection pins. Hydraulic track adjuster provided with N2 gas accumulator with relief valve. Track adjuster provided with protection device against abnormal tension. Travel motion alarm device.	

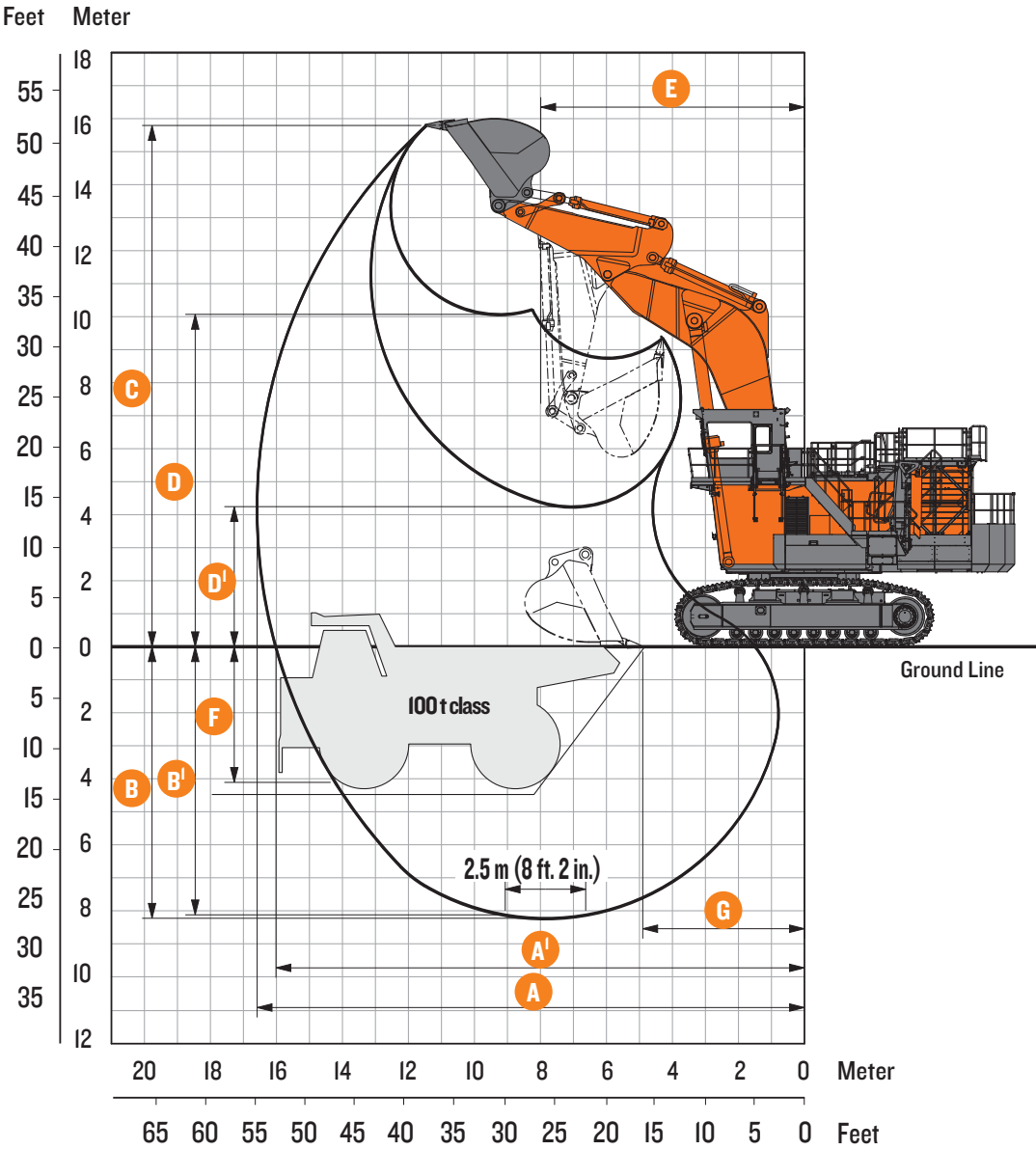
Shovel-Type Undercarriage	
Triple grouser track shoes of induction-hardened cast steel.	
Shoe width	1000 mm (40 in.)
Number of Rollers and Shoes (each side)	
Upper rollers	3
Lower rollers	8
Track shoes	39
Travel Device	
Each track driven by high-torque, axial piston motors, allowing counter rotation of tracks. Two-stage planetary gear plus spur gears reduction device. Dual-support-type traction device. Parking brake of spring-set/hydraulic-released disc type. This parking brake is manually releasable.	
Travel speeds	Low: 0-2.3 km/h (0-1.4 mph) High: 0-1.6 km/h (0-1 mph)
Maximum traction force	1330 kN/135 600 kgf (298,944 lbf.)
Gradeability	58% (30 degree) max.

Weights and Ground Pressure					
Backhoe: BE-front: Equipped with 8.7-m (28 ft. 7 in.) boom, 3.9-m (12 ft. 10 in.) arm and 17-m ³ (22.2 cu. yd.) (ISO heaped) bucket					
Diesel Engine					
Shoe Type	Side Frames	Manufacturer	Engine Type	Operating Weights	Ground Pressure
Triple Grousers	1000mm (40 in.)	Cummins	FCO	256 000 kg (564,383 lb.)	187 kPa (1.91 kgf/cm ²) (27.1 psi)
			T4F	257 000 kg (566,588 lb.)	187 kPa (1.91 kgf/cm ²) (27.1 psi)
		MTU	FCO	258 000 kg (568,793 lb.)	188 kPa (1.92 kgf/cm ²) (27.3 psi)
			T4F	259 000 kg (570,997 lb.)	189 kPa (1.92 kgf/cm ²) (27.4 psi)

Electric Motor					
Shoe Type	Shoe Width	Manufacturer		Operating Weights	Ground Pressure
Triple Grousers	1000mm (40 in.)	HITACHI		252 000 kg (555,565 lb.)	184 kPa (1.87 kgf/cm²) (26.7 psi)
Loading Shovel: Equipped with 15 m³ (19.6 cu. yd.) (ISO heaped) bottom dump bucket					
Diesel Engine					
Shoe Type	Shoe Width	Manufacturer	Engine Type	Operating Weights	Ground Pressure
Triple Grousers	1000mm (40 in.)	Cummins	FCO	258 000 kg (568,793 lb.)	188 kPa (1.92 kgf/cm²) (27.3 psi)
			T4F	259 000 kg (570,997 lb.)	189 kPa (1.92 kgf/cm²) (27.4 psi)
		MTU	FCO	260 000 kg (573,202 lb.)	189 kPa (1.92 kgf/cm²) (27.4 psi)
			T4F	261 000 kg (575,407 lb.)	190 kPa (1.94 kgf/cm²) (27.6 psi)

Electric Motor					
Shoe Type	Shoe Width	Manufacturer		Operating Weights	Ground Pressure
Triple Grousers	1000mm (40 in.)	HITACHI		254 000 kg (559,974 lb.)	185 kPa (1.89 kgf/cm ²) (26.8 psi)
Service Refill Capacities		Diesel Powered		Electric Powered	
Fuel tank		5300 L (1,400 gal.)			
Engine coolant		450 L (119 gal.)			
Engine oil pan		290 L (77 gal.)			
Pump drive		30 L (8 gal.)		30 L (8 gal.)	
Swing drive device		2 x 100 L (2 x 26 gal.)		2 x 100 L (2 x 26 gal.)	
Travel drive device		2 x 137 L (2 x 36 gal.)		2 x 137 L (2 x 36 gal.)	
Hydraulic system		3170 L (837 gal.)		3170 L (837 gal.)	
Hydraulic oil tank		1320 L (349 gal.)		1320 L (349 gal.)	
DEF tank		356 L (94 gal.)			

EX2600-7



Backhoe Attachments

Boom and arm are of all-welded, low-stress, full-box section design. Bucket of all-welded, high-strength steel structure. Bucket/arm joint pins are floating type. Replaceable thrust plates are provided with bucket/arm joint part. Auto-lubrication system for all pins is standard.

Working Ranges

BE-boom length	8.7 m (28 ft. 7 in.)
BE-arm length	3.9 m (12 ft. 10 in.)
Bucket Capacity (ISO 7451 Heaped 1:1)	17 m ³ (22.2 cu. yd.)
A Max. digging reach	16 600 mm (54 ft. 6 in.)
A' Max. digging reach (on ground)	16 050 mm (52 ft. 8 in.)
B Max. digging depth	8250 mm (27 ft. 1 in.)
B' Max. digging depth (2.5 m (8 ft. 2 in.) level)	8150 mm (26 ft. 9 in.)
C Max. cutting height	15 800 mm (51 ft. 10 in.)
D Max. dumping height	10 100 mm (33 ft. 2 in.)
D' Min. dumping height	4250 mm (13 ft. 11 in.)
E Min. swing radius	7990 mm (26 ft. 3 in.)
F Max. vertical wall	4110 mm (13 ft. 6 in.)
G Min. level crowding distance	4900 mm (16 ft. 1 in.)
Bucket digging force (ISO)*	830 kN/84 600 kgf (186,591 lbf.)
Arm crowding force (ISO)*	785 kN/80 000 kgf (176,475 lbf.)

*This is the calculated value at the loading point (Cutting Edge) conforming to ISO.

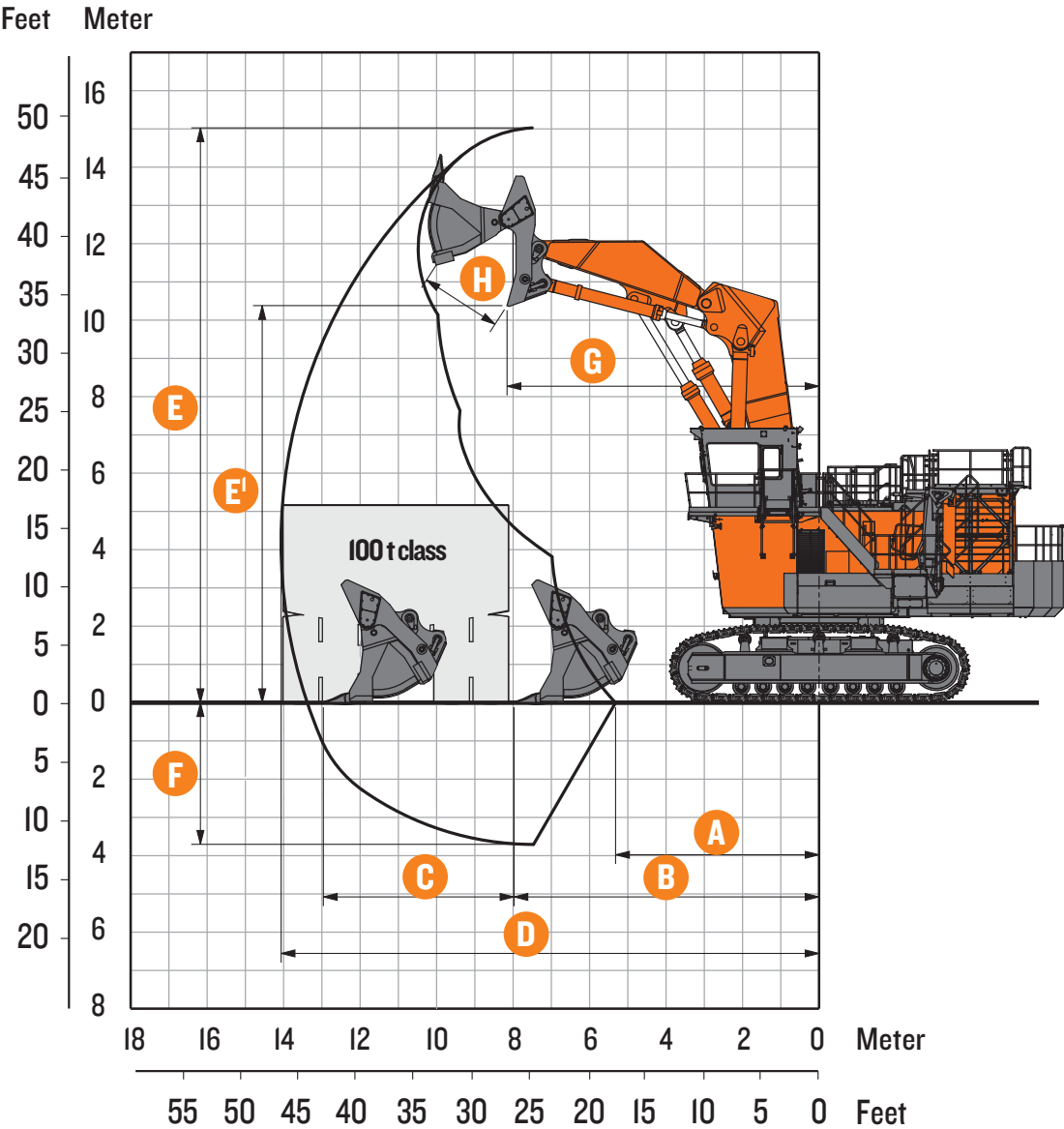
Bucket

Capacity (ISO 7456 heaped 2:1)	Width	Number of Teeth	Weight	Type	Materials density
17 m ³ (22.2 cu. yd.)	3580 mm (11 ft. 9 in.)	5	15 600 kg (34,392 lb.)	General purpose	1800 kg/m ³ (3,034 lb./cu. yd.) or less

Bucket Passes to Dump Trucks

	Truck	Nominal Payload	Bucket Capacity	Passes to Fill							
				1	2	3	4	5	6	7	8
Backhoe	100T Class	95.2 tonnes (106.2 tons)	17-m ³ (22.2 cu. yd.) Bucket								
Backhoe	EH3500AC-3	181 tonnes (200 tons)	17-m ³ (22.2 cu. yd.) Bucket								

EX2600-7



Loading Shovel Attachments

Boom and arm are of all-welded, low-stress, high-tensile strength steel full-box section design. Efficient, automatic level crowing achieved by one-lever control as the parallel link mechanism keeps the bucket digging angle constant, and level cylinder circuit maintains the bucket height constant (Auto-Leveling Crowd Mechanism). Auto-lubrication system for all pins is standard.

Working Ranges

Bucket Capacity (ISO 7456 Heaped 2:1)	15 m³ (19.6 cu. yd.)	16.5 m³ (21.6 cu. yd.)
A Min. digging distance	5340 mm (17 ft. 6 in.)	5200 mm (17 ft. 1 in.)
B Min. level crowding distance	7980 mm (26 ft. 2 in.)	8240 mm (27 ft.)
C Level crowding distance	4980 mm (16 ft. 4 in.)	4960 mm (16 ft. 3 in.)
D Max. digging reach	14 060 mm (46 ft. 2 in.)	14 300 mm (46 ft. 11 in.)
E Max. cutting height	15 010 mm (49 ft. 3 in.)	15 250 mm (50 ft.)
E' Max. dumping height	10 350 mm (34 ft.)	10 350 mm (34 ft.)
F Max. digging depth	3720 mm (12 ft. 3 in.)	3960 mm (13 ft.)
G Working radius at max. dumping height	8140 mm (26 ft. 9 in.)	8140 mm (26 ft. 9 in.)
H Max. bucket opening width	2150 mm (7 ft. 1 in.)	2150 mm (7 ft. 1 in.)
Arm crowding force on ground	918 kN/93 600 kgf (206,375 lbf.)	907 kN/92 500 kgf (203,902 lbf.)
Bucket digging force	943 kN/96 200 kgf (211,995 lbf.)	873 kN/89 000 kgf (196,258 lbf.)

Bucket

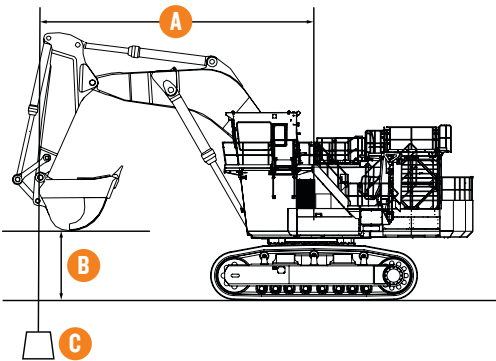
Capacity (ISO 7456 heaped 2:1)	Width	Number of Teeth	Weight	Type	Materials density
15 m³ (19.6 cu. yd.)	3590 mm (11 ft. 9 in.)	6	20 300 kg (44,754 lb.)	General purpose	1800 kg/m³ (3,034 lb./cu. yd.) or less
16.5 m³ (21.6 cu. yd.)	3590 mm (11 ft. 9 in.)	6	20 700 kg (45,636 lb.)	Light duty	1600 kg/m³ (2,697 lb./cu. yd.) or less

Bucket Passes to Dump Trucks

	Truck	Nominal Payload	Bucket Capacity	Passes to Fill							
				1	2	3	4	5	6	7	8
Shovel	100T Class	95.2 tonnes (106.6 tons)	15-m³ (19.6 cu. yd.) Bucket								
Shovel	EH3500AC-3	181 tonnes (200 tons)	15-m³ (19.6 cu. yd.) Bucket								

EX2600-7

Lift Capacities												Unit: 1000 kg (1,000 lb.)
Boldface type indicates hydraulic-limited capacities with power boost; lightface type indicates stability-limited capacities, in kg (lb.). Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine. Attachment weight is not included when calculating the lift capacities. The load point is a hook (not standard equipment) loaded on the back of the bucket.												
Load Point Height	6.0 m (19 ft. 8 in.)		8.0 m (26 ft. 3 in.)		10.0 m (32 ft. 10 in.)		12.0 m (39 ft. 4 in.)		14.0 m (45 ft. 11 in.)		At maximum reach	
Horizontal Distance from Centerline of Rotation	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side meter
EX2600-7 with 8.7-m (28 ft. 7 in.) boom, 3.9-m (12 ft. 10 in.) arm, 17-m³ (22.2 cu. yd.) bucket (ISO 7451 Heaped 1:1) and 1000-mm (40 in.) shoes												
10.0 m (32 ft. 10 in.)							23.2 (51.5)	23.2 (51.5)			10.3 (22.7)	10.3 (22.7) 15.4 m (50 ft. 6 in.)
8.0 m (26 ft. 3 in.)							27.9 (61.5)	27.9 (61.5)	18.5 (40.8)	18.5 (40.8)	10.1 (22.3)	10.1 (22.3) 15.9 m (52 ft. 2 in.)
6.0 m (19 ft. 8 in.)					33.6 (74.1)	33.6 (74.1)	32.5 (71.6)	32.5 (71.6)	26.7 (58.9)	26.7 (58.9)	10.3 (22.7)	10.3 (22.7) 16.1 m (52 ft. 10 in.)
4.0 m (13 ft. 1 in.)					51.1 (112.7)	51.1 (112.7)	38.4 (84.7)	39.5 (87.1)	27.8 (61.3)	31.7 (69.9)	11.1 (24.5)	11.1 (24.5) 15.9 m (52 ft. 2 in.)
2.0 m (6 ft. 7 in.)					50.1 (110.4)	51.1 (112.7)	36.1 (79.6)	41.3 (91)	26.4 (58.2)	32.6 (71.9)	12.3 (27.1)	12.3 (27.1) 15.4 m (50 ft. 6 in.)
Ground Line					48.1 (106)	49.3 (108.7)	34.5 (76.1)	40.9 (90.2)	25.5 (56.2)	31.1 (68.8)	14.5 (32)	14.5 (32) 14.5 m (47 ft. 7 in.)
-2.0 m (-6 ft. 7 in.)			33.2 (73.2)	33.2 (73.2)	47.6 (104.9)	48.8 (108.6)	33.9 (74.7)	37.2 (82)	20.3 (44.8)	20.3 (44.8)		
-4.0 m (-13 ft. 1 in.)	44.4 (97.9)	44.4 (97.9)	39.3 (86.6)	39.3 (86.6)	38.8 (85.5)	38.8 (85.5)	27.7 (61.1)	27.7 (61.1)				

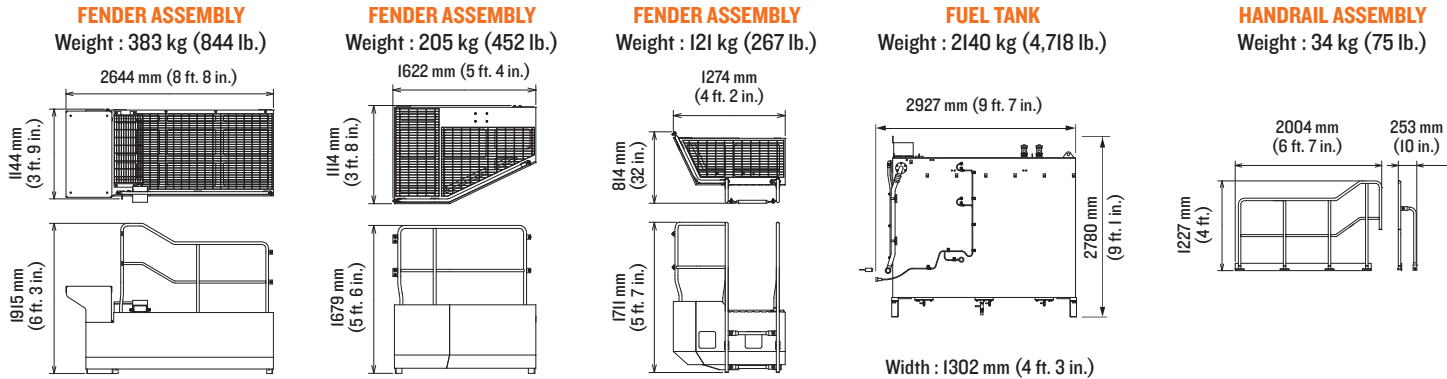
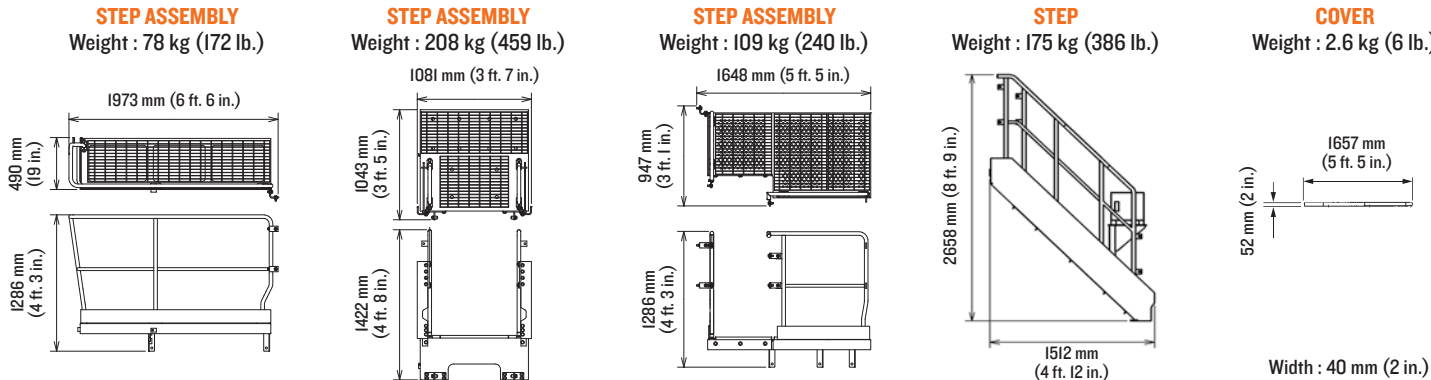
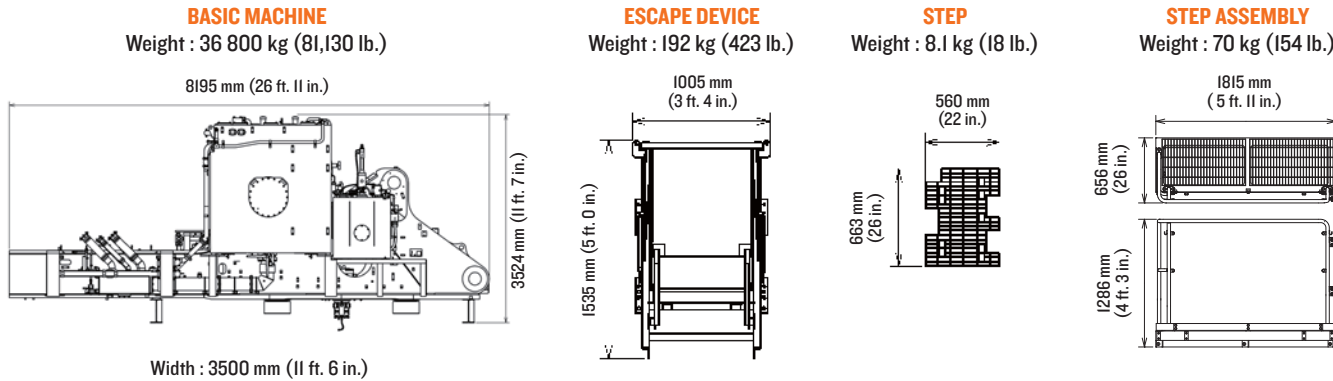
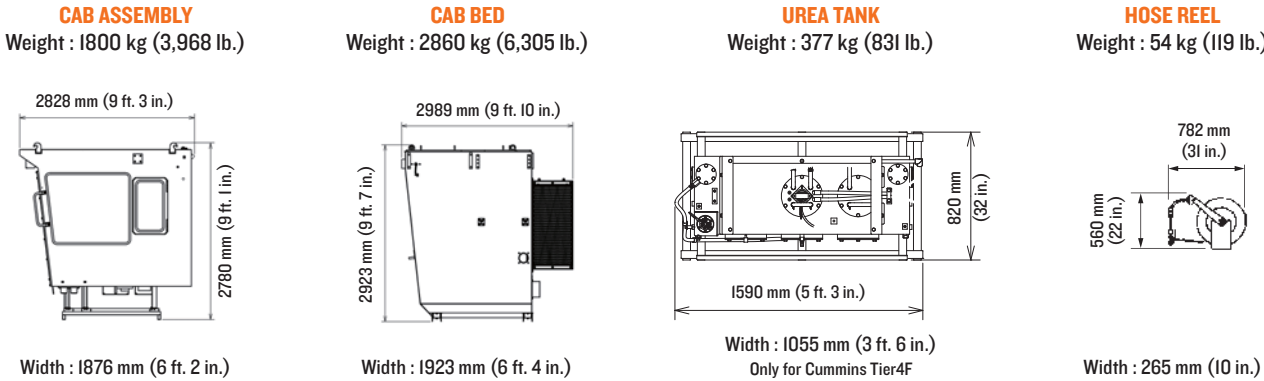


- A Load radius
- B Load point height
- C Lifting capacity

EX2600-7

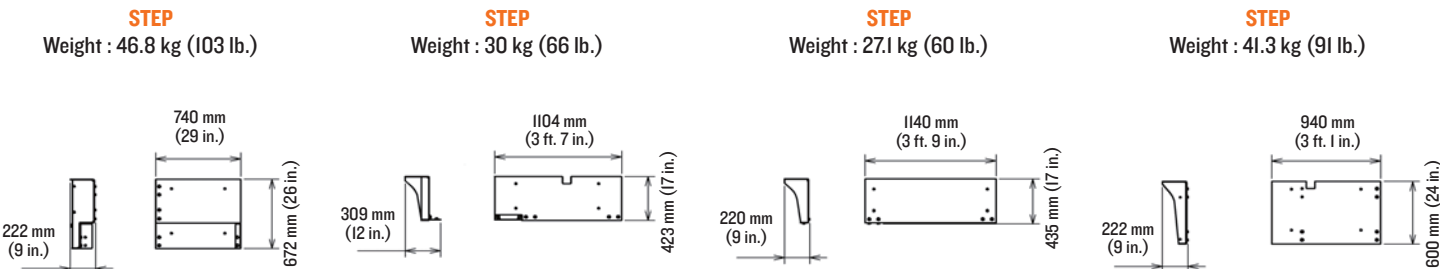
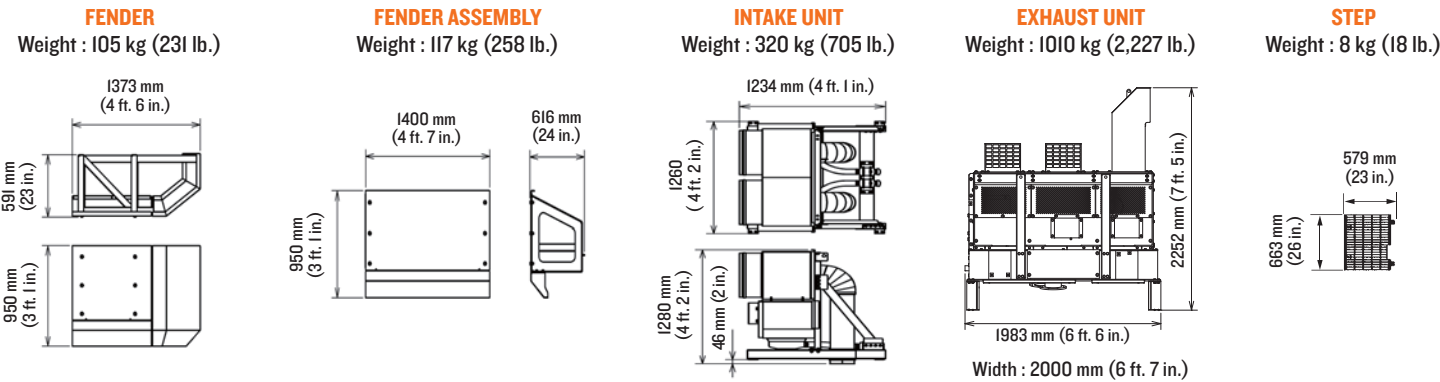
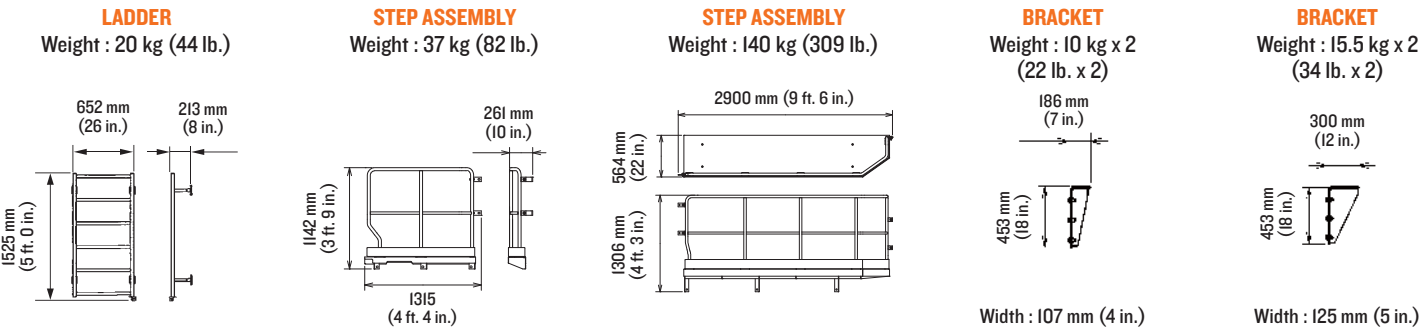
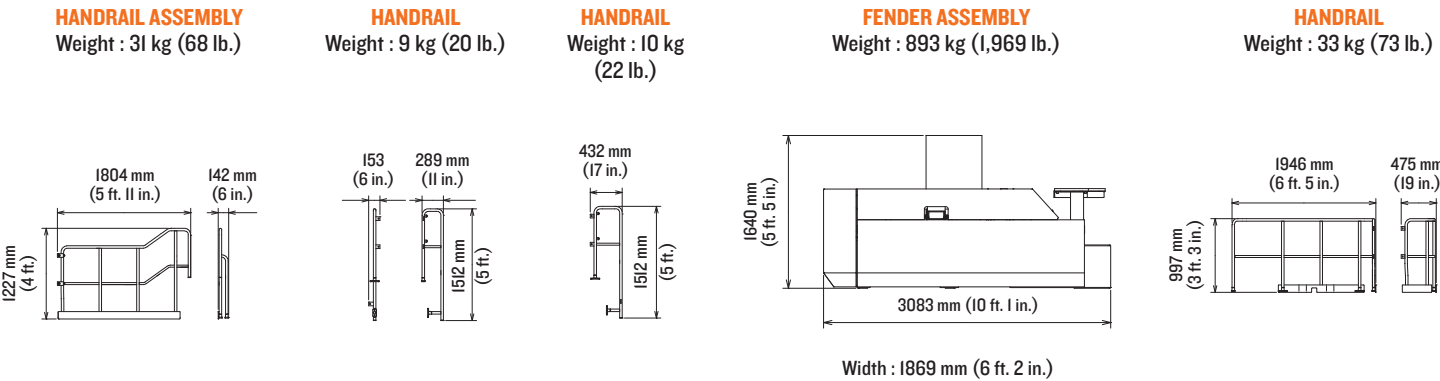
Illustrations show diesel engine type. Easily assembled owing to local assembling system requiring no welding.

Upperstructure

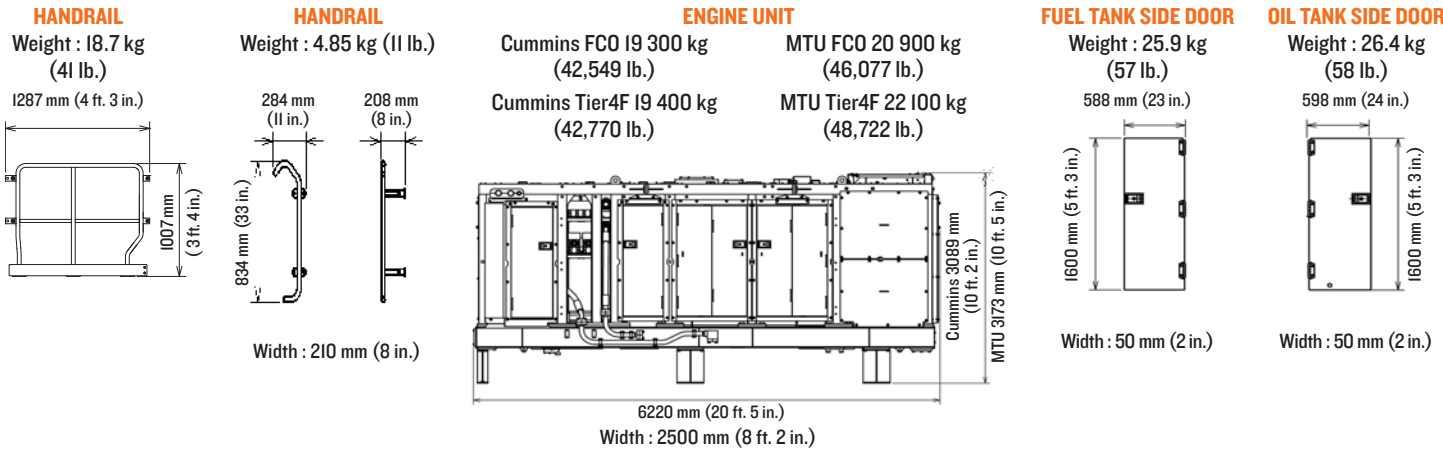
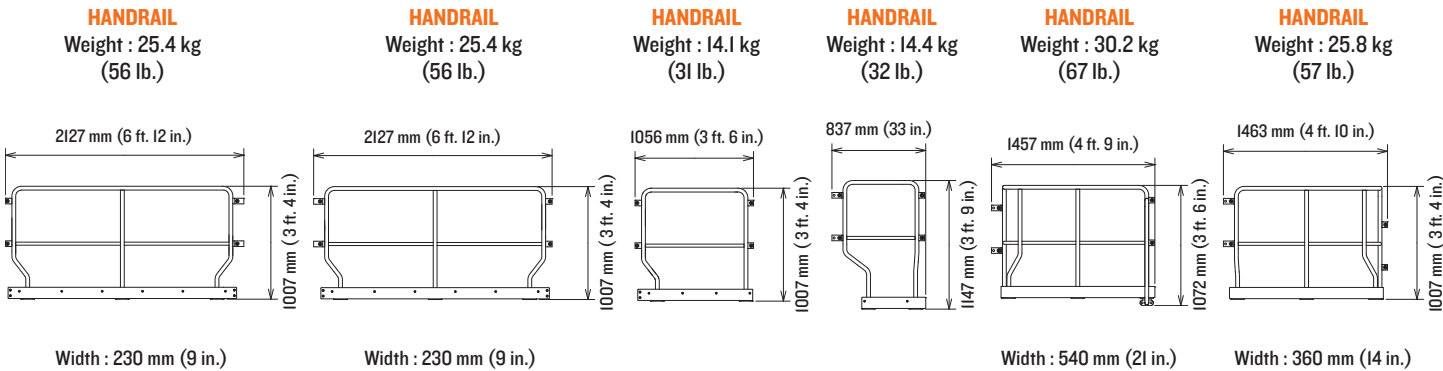
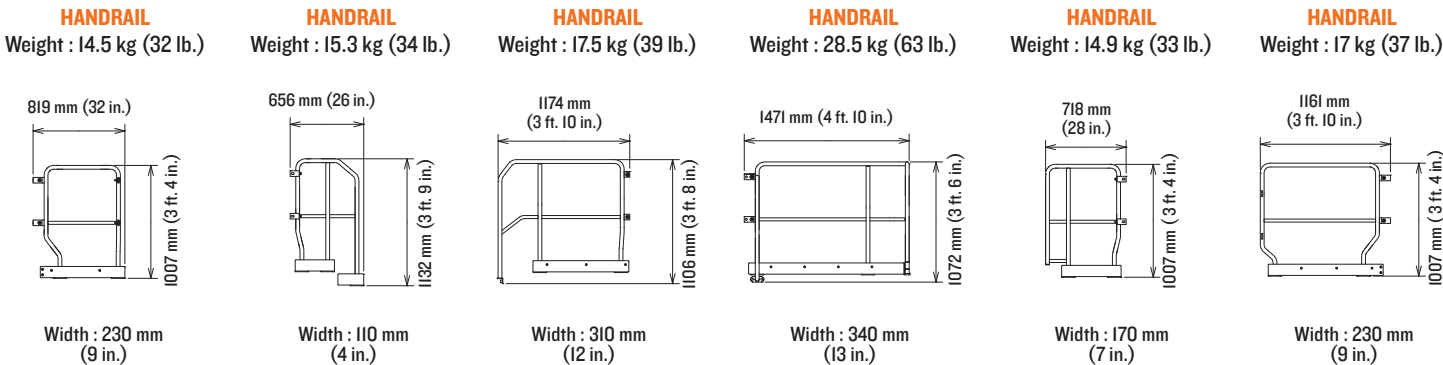
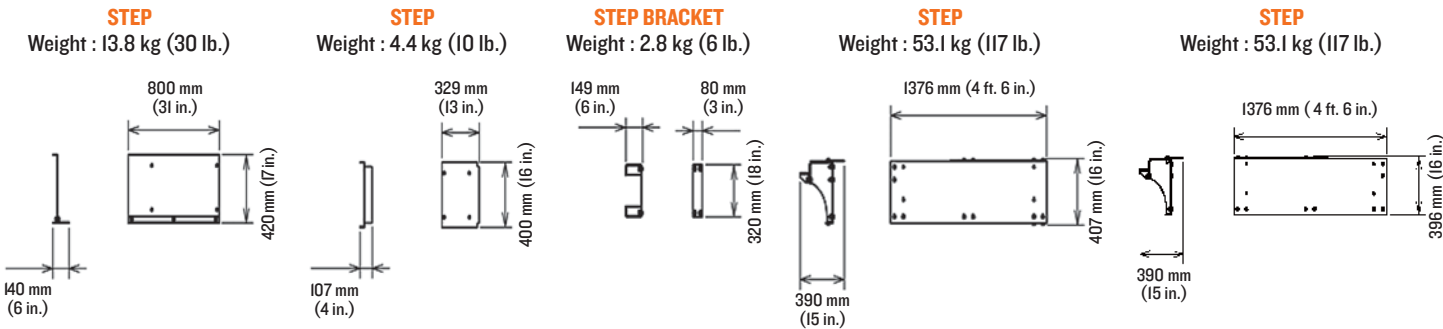


EX2600-7

Upperstructure (continued)



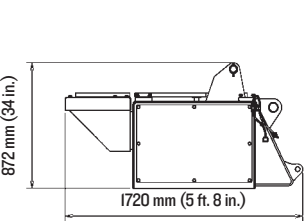
Upperstructure (continued)



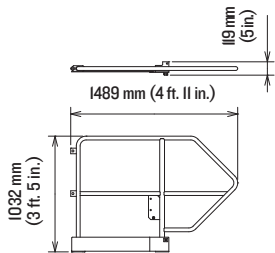
EX2600-7

Upperstructure (continued)

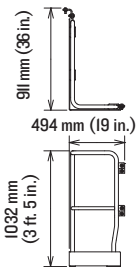
BOX
Weight : 967 kg (2,132 lb.)



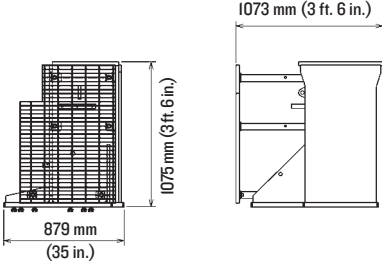
HANDRAIL
Weight : 24.7 kg (54 lb.)



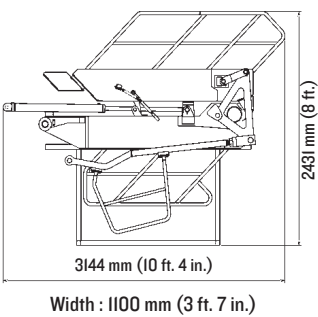
HANDRAIL
Weight : 20.7 kg (46 lb.)



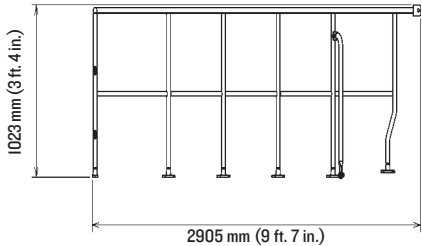
BEAM
Weight : 615 kg (1,356 lb.)



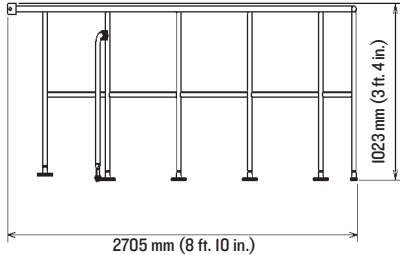
STEP ASSEMBLY
Weight : 773 kg (1,704 lb.)



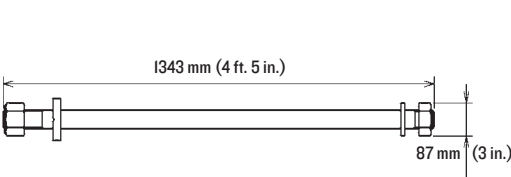
HANDRAIL
Weight : 34.7 kg (77 lb.)



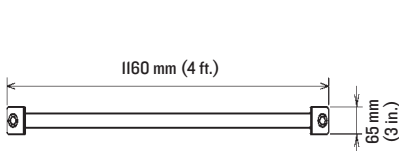
HANDRAIL
Weight : 33.4 kg (74 lb.)



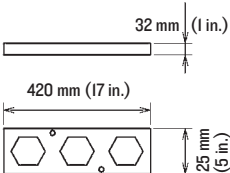
BOLT ASSEMBLY
Weight : 24 kg x 2 (53 lb. x 2)



HANDRAIL
Weight : 3 kg x 2 (7 lb. x 2)

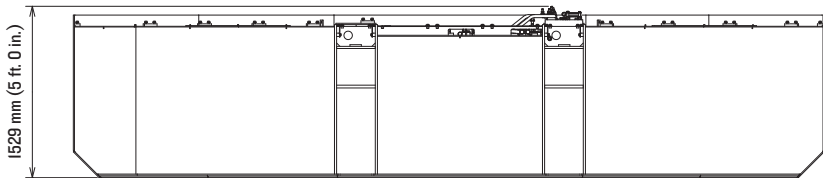
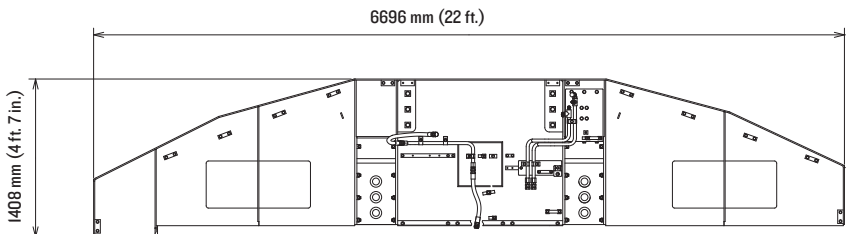


STOPPER
Weight : 9 kg x 2 (20 lb. x 2)

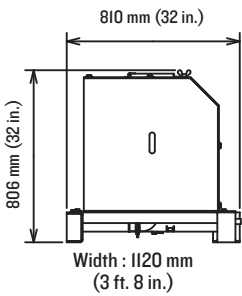


Upperstructure (continued)

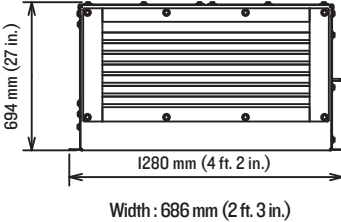
COUNTERWEIGHT
Weight : 29 800 kg (65,698 lb.)



WATER TANK ASSY
Weight : 170 kg (375 lb.)



AIR DUCT ASSY
Weight : 117 kg (258 lb.)

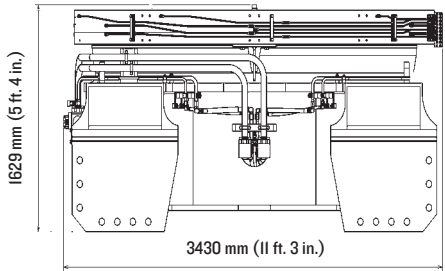


EX2600-7

Undercarriage

TRACK FRAME

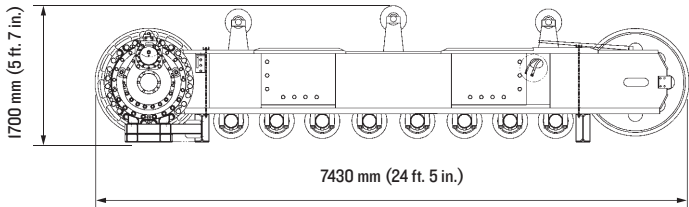
Weight : 22 600 kg (49,824 lb.)



Width : 5060 mm (16 ft. 7 in.)

SIDE FRAME

Weight : 19 800 kg x 2 (43,652 lb. x 2)

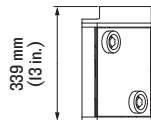
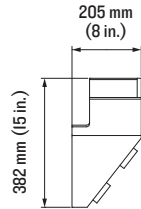


Width : 2160 mm (7 ft. 1 in.)

Undercarriage (continued)

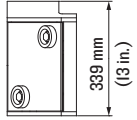
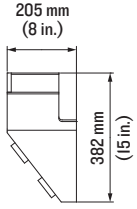
GUARD ASSEMBLY (R)

Weight : 24 kg (53 lb.)



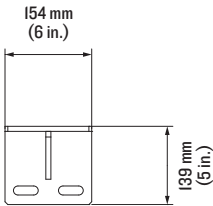
GUARD ASSEMBLY (L)

Weight : 24 kg (53 lb.)



BRACKET (R) (L)

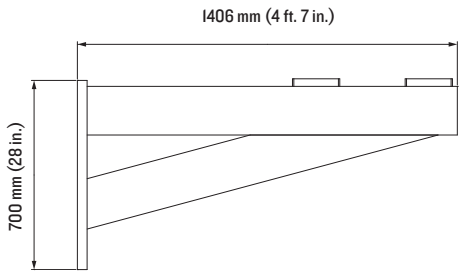
Weight : 3 kg x 4 (7 lb. x 4)



Width : 100 mm (4 in.)

SUPPORT (R)

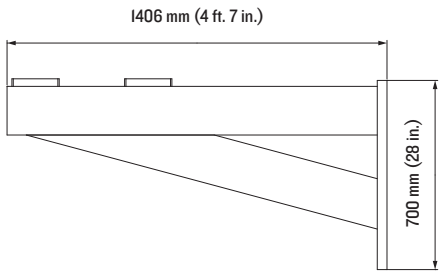
Weight : 78 kg (172 lb.)



Width : 100 mm (4 in.)

SUPPORT (L)

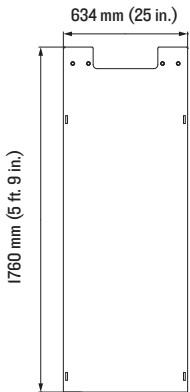
Weight : 78 kg (172 lb.)



Width : 100 mm (4 in.)

COVER (R)

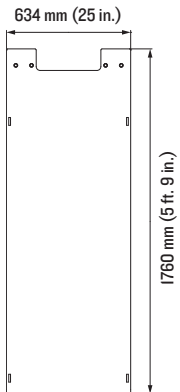
Weight : 138 kg (304 lb.)



Width : 385 mm (15 in.)

COVER (L)

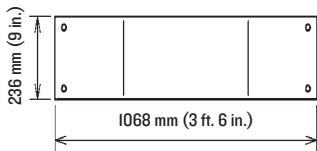
Weight : 138 kg (304 lb.)



Width : 385 mm (15 in.)

COVER

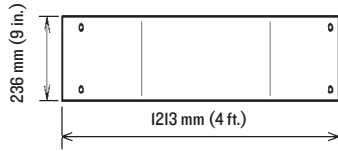
Weight : 18.6 kg x 4 (41 lb. x 4)



Width : 147 mm (6 in.)

COVER

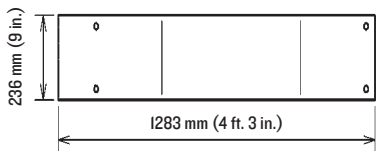
Weight : 21.2 kg x 2 (47 lb. x 2)



Width : 179 mm (7 in.)

COVER

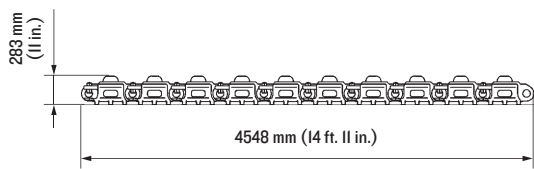
Weight : 23.1 kg x 4 (51 lb. x 4)



Width : 204 mm (8 in.)

LINK ASSEMBLY

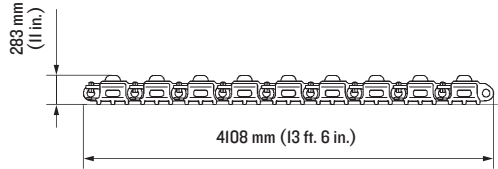
Weight : 3020 kg x 6 (6,658 lb. x 6)



Width : 1000 mm (3 ft. 3 in.)

LINK ASSEMBLY

Weight : 2790 kg x 6 (6,151 lb. x 6)

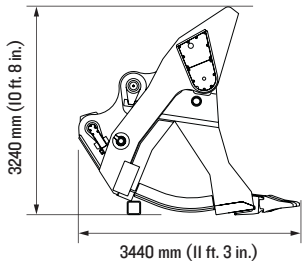


Width : 1000 mm (3 ft. 3 in.)

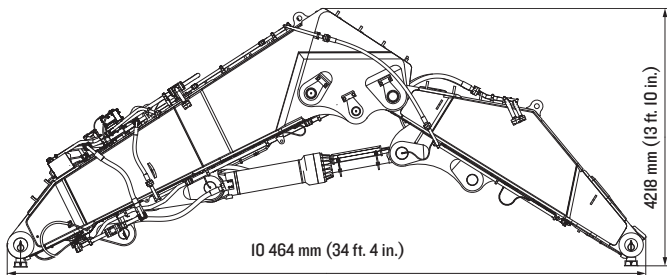
EX2600-7

Loading Shovel Attachments

LOADER BUCKET 15 M³ (19.6 CU. YD.)
Weight : 20 300 kg (44,754 lb.)



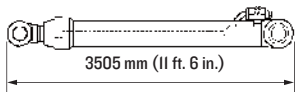
LOADER
Weight : 29 700 kg (65,477 lb.)



Width : 2600 mm (8 ft. 6 in.)

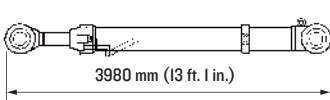
ARM CYLINDER

Weight : 2240 kg (4,938 lb.)



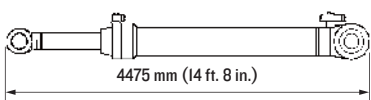
BUCKET CYLINDERS

Weight : 1820 kg x 2 (4,012 lb. x 2)



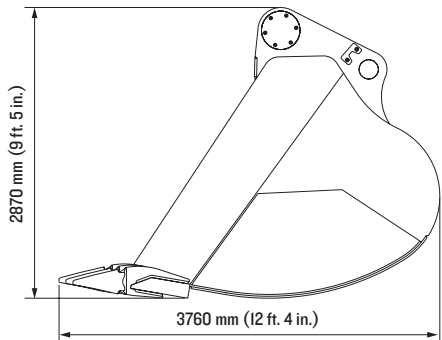
BUCKET CYLINDERS

Weight : 2960 kg x 2 (6,526 lb. x 2)



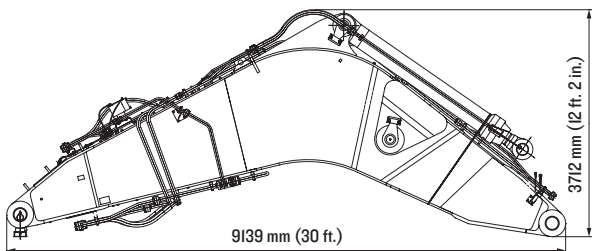
Backhoe Attachments

BUCKET ASSEMBLY
Capacity : 17 m³ (22.2 cu. yd.) (ISO heaped)
Weight : 15 600 kg (34,392 lb.)



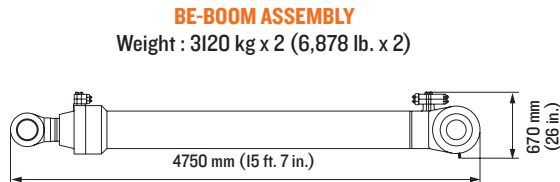
Width : 3600 mm (12 ft.)

BE-BOOM ASSEMBLY
Weight : 24 500 kg (54,013 lb.)

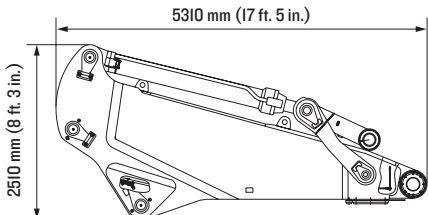


Width : 2240 mm (7 ft. 4 in.)

BE-ARM ASSEMBLY
Weight : 16 100 kg (35,494 lb.)



Width : 490 mm (19 in.)



Width : 1640 mm (5 ft. 5 in.)

EX2600-7

Key: ● Standard ▲ Optional or special kit

Diesel	Electric	Data Logging System
●	●	DLU (Data-Logging Unit) continuously records performance of the engine and the hydraulic system. The record can be downloaded by PC.
●	●	WIU (Wireless Interface Unit)**
●	●	Communication system (Alternative)**
		GPRS communication system
		Satellite data transmitting system
Lights		
●	●	2 entrance LED light
●	●	3 maintenance light
●	●	9 working LED light
Upperstructure		
●	●	Cab riser pressurizer
●	●	Dual isolator switch
●	●	Electronic cylinder stroke control system
●	●	Emergency escape device
●	●	Folding stairs with wide steps
●	●	Hydraulic drive grease gun with hose reel
●	●	Lockable machine doors
●	●	Swing parking brake
●		30 000 kg (66,139 lb.) counterweight (Inc. bolt etc.)
	●	34 000 kg (74,957 lb.) counterweight (Inc. bolt etc.)
Undercarriage		
●	●	Grease-less center joint
●	●	Hydraulic track adjuster with N2 gas accumulator with relief valve
●	●	Travel motion alarm device
●	●	Travel parking brake
●	●	Swing circle excess grease scraper
●	●	Swing circle lubrication piping protection
●	●	1000 mm (40 in.) triple grouser shoes
Miscellaneous		
●	●	Auto-lubrication system (Lincoln) for front-attachment pins, swing bearing
●	●	Recirculation air filter for air conditioner
●	●	Stairs and handrails (ISO compliant)
●	●	Stop valve for transport and reassembly
●	●	Ventilation air filter for air conditioner
●	●	I2 V power terminal board
Fast-Filling System		
●	●	Fast-filling system (Wiggins) for fuel, hydraulic oil, coolant, swing device oil, pump transmission oil, engine oil, and grease (Couplers not included). DEF (only for Cummins Tier 4F)
●	●	Fast-filling couplers
Optional Equipment		
▲	▲	Aerial Angle
▲	▲	Cold weather package*
▲	▲	High altitude application*
▲	▲	Standard tool kit
▲	▲	Travel motor guard
▲	▲	Travel transmission guard
▲	▲	Center track frame cover
▲		Additional fuel filter (Parker FB0-I4)
▲	▲	Front cab guard

Diesel	Electric	Engine
●		Auto-idle system
●		Cartridge-type engine oil bypass filter
●		Cartridge-type fuel filter
●		Emergency engine stop system
●		Fan guard
●		Heavy-duty type air cleaner with dust ejector
●		Isolation-mounted engine
●		Pre-lubrication system
●		Radiator reserve tank
●		Water filter
●		I40 A alternator
Motor		
	●	Space heater included
	●	Thermo-guard (Temperature detector)
Hydraulic system		
●	●	Bypass filter
●	●	Control valve with main relief valve
●	●	Drain filter
●		E-P control system
●	●	Forced-lubrication and forced-cooling pump drive system
●		FPS (Fuel-saving Pump System)
●	●	Full-flow filter
●	●	High-pressure strainer
●	●	Hydraulic drive cooling-fan system
●	●	OHS (Optimum Hydraulic System)
●	●	Pilot filter
●	●	Regeneration circuit for boom down function
●	●	Suction filter
Cab		
●	●	Adjustable reclining seat with air suspension
●	●	Air conditioner with defroster
●	●	Air horn with electric compressor
●	●	Auto-tuning AM-FM radio with digital clock
●	●	Evacuation hammer
●	●	Floor mat
●	●	Fluid-filled elastic mounts
●	●	Footrest
●	●	Front windshield washer
●	●	Hot & cool-box
●	●	Laminated glass windshield (Front)
●	●	OPG top guard level II (ISO10262)
●	●	Parallel-link-type intermittent windshield wiper
●	●	Pilot control shut-off lever
●	●	Rearview mirror
●	●	Reinforced/tinted glass side and rear windows
●	●	Roll screens
●	●	Seat belt
●	●	Storage spaces
●	●	Trainer's seat
●	●	4 color monitor cameras; 2 front and 2 rear
Monitor Systems		
Meters:		
●	●	Ambient temperature
●	●	Clock
●	●	DEF gauge (only for Cummins Tier 4F)
●		Engine coolant temperature gauge
●		Engine oil pressure gauge
●		Engine oil temperature gauge
●		Fuel gauge
●	●	Grease gauge
●	●	Hour meter
●	●	Hydraulic oil temperature gauge
●	●	Inclinometer
	●	Main motor ammeter
	●	Main motor coil temperature gauge
	●	Main motor voltmeter
●		Tachometer

Diesel	Electric	Monitor Systems (continued)
Pilot lamps (Green):		
●		Auto-Idle
●	●	Auto lubrication
●		DEF heater (only for cummins Tier4F)
●	●	Fast filling
●	●	Front attachment type
	●	Main motor run
●	●	Pilot control shut off lever
●		Pre-lubrication
●	●	Stairway position
●	●	Travel mode
Warning lamps (Red) and alarm buzzers:		
	●	AC210V power source
	●	AC6600V power source
●		Alternator
●	●	Auto-lubrication system
	●	Battery charge
●		Coolant level
●		Coolant overheat
	●	Cubicle box
●		DEF (only for Cummins Tier 4F)
●	●	Electric lever
●	●	Emergency engine/motor stop
●		Engine oil pressure
●		Engine over run
●		Engine power (only for Cummins Tier 4F)
●		Engine speed (only for Cummins Tier 4F)
●		Engine stop
●		Exhaust temperature
●		Fuel temperature
●	●	Grease level
●	●	Hydraulic oil level
●	●	Hydraulic oil overheat
	●	Main motor overheat
	●	Main motor start congestion
●	●	Manual lubrication
●		Pre-lubrication
●	●	Pump transmission oil level
●	●	Pump transmission oil overheat
●		SCR cleaning (only for Cummins Tier 4F)
●		SCR system (only for Cummins Tier 4F)
●		SCR temperature (only for Cummins Tier 4F)
●	●	Stop valve
●	●	Tension
	●	3E relay
Warning lamps (Yellow):		
●		Air cleaner restriction
●	●	Cabbed door open
	●	Cab heater
●		Cannot start engine
●		Coolant level
●		Coolant overheat
●		DEF (only for Cummins Tier 4F)
●		DEF heater (only for Cummins Tier 4F)
●	●	Electrical equipment box
●		Engine oil pressure
●		Engine warning
●		Exhaust temperature
●	●	Fast filling
●		Fuel temperature
●	●	Grease level
●	●	Pump contamination
●		SCR cleaning (only for Cummins Tier 4F)
●		SCR system (only for Cummins Tier 4F)
●		SCR temperature (only for Cummins Tier 4F)
●	●	Stairway position

*Engineered on request
**The availability of the system depends on licensing regulations in each country.
See your Hitachi dealer for further information.



HITACHI