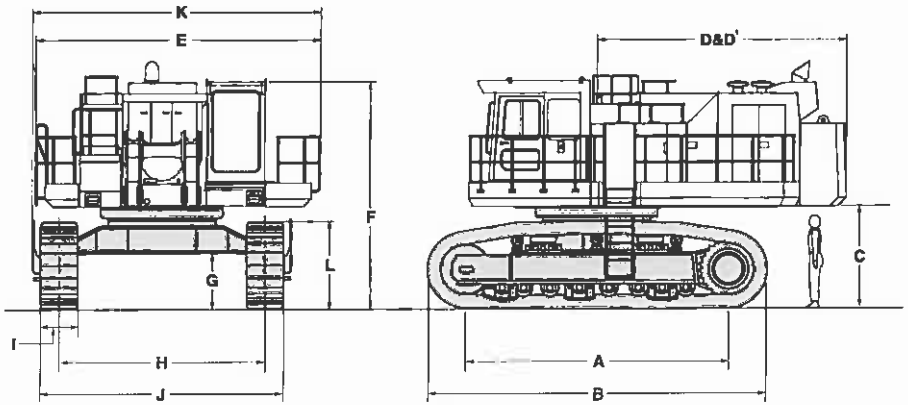
HITACHI

Super EX
EX1200

Contents To

- Engine Gross Power ..... 510 kW (684 hp)
- Operating Weight EX1200-5c
  Backhoe: 108 000 kg (238 100 lb)
  BE-front: 109 000 kg (240 300 lb)
  Loading Shovel: 111 000 kg (244 800 lb)
- Backhoe Bucket ..... PCSA (1:1) Heaped: 3.0 – 7.1 m³ (3.92 – 9.29 yd³)
  CECE (2:1) Heaped: 2.7 – 6.4 m³
- Loading Shovel Bucket ..... PCSA (2:1) Heaped: 5.9 – 6.5 m³ (7.7 – 8.5 yd³)

Specifications



A	Distance between tumblers		5 000 mm (16'5")	
B	Undercarriage length		6 410 mm (21'0")	
C	Counterweight clearance		1 790 mm (5'10")	
D	Rear-end swing radius		4 850 mm (15'11")	
D'	Rear-end length		4 740 mm (15'7")	
E	Overall width of upperstructure		5 380 mm (17'8")	
F	Overall height of cab	Backhoe	4 320 mm (14'2")	
		Loading shovel	5 410 mm (17'9")	
G	Min. ground clearance		990 mm (3'3")	
H	Track gauge		3 900 mm (12'10")	
I	Track shoe width		710 mm (28")	900 mm (35")
J	Undercarriage width		4 610 mm (15'1")	4 800 mm (15'9")
K	Overall width		5 430 mm (17'10")	
L	Track height		1 570 mm (5'2")	

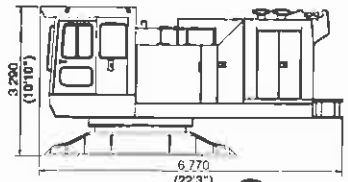
TRANSPORTATION

- Easily assembled owning to local assembling system requiring no welding
- Overall width of below 3 500 (11'6") during transportation

Unit: mm(ft in)

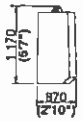
UPPERSTRUCTURE

Upperstructure
Weight : 33 900 kg (74 700 lb)



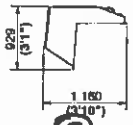
Width : 3 500 (11'6") ①

Counterweight
Weight : 17 500 kg (38 600 lb)



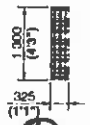
Width : 3 450 (11'4") ②

Muffler Cover
Weight : 90.7 kg (200 lb)



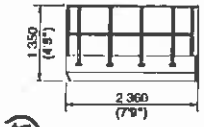
Width : 1 390 (4'7") ③

Side step
Weight : 21 kg (46 lb)



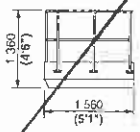
Width : 110 (4") ④

Side walk for Backhoe
Weight : 217 kg (478 lb)



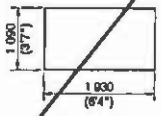
⑤ Width : 1 020 (3'4")

Side walk for Loading shovel
Weight : 180 kg (397 lb)



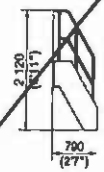
Width : 1 050 (3'5")

High cab kit for Loading shovel (Optional equipment for Backhoe)
Weight : 590 kg (1 300 lb)



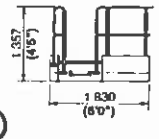
Width : 1 100 (3'7")

Step for loading shovel
Weight : 145 kg (320 lb)



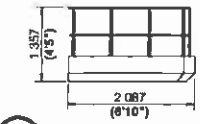
Width : 1 050 (3'5")

Fender (Left rear side)
Weight : 144 kg (317 lb)



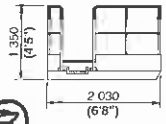
⑥ Width : 798 (2'7")

Fender (Left rear side)
Weight : 160 kg (353 lb)



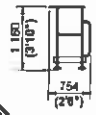
⑦ Width : 644 (2'1")

Side walk
Weight : 181 kg (400 lb)



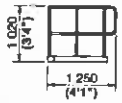
⑧ Width : 835 (2'9")

Side walk
Weight : 18 kg (40 lb)



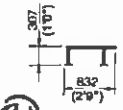
⑨ Width : 192 (7.6")

Handrail
Weight : 264 kg (582 lb)



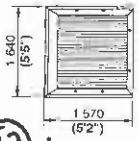
⑩ Width : 680 (2'3")

Handrail
Weight : 46 kg (101 lb)



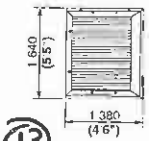
⑪ Width : 50 (0'2")

Radiator cover
Weight : 93 kg (205 lb)



⑫ Width : 100 (3.9")

Oil cooler cover
Weight : 85 kg (187 lb)

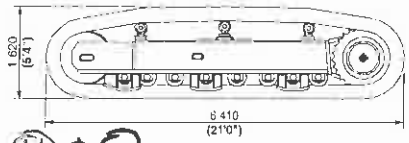


⑬ Width : 100 (3.9")

Unit: mm(ft in)

UNDERCARRIAGE

Side frame
Weight : 14 600 kg (32 200 lb) x 2

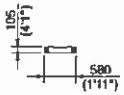


⑭ & ⑮ Width : 710 (2'4")

Traction device cover
Weight : 24 kg (53 lb) x 2

Width : 330 (1'1")

Steps
Weight : 18 kg (40 lb) x 2



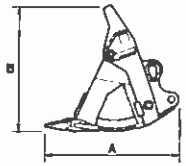
Width : 125 (2'9")

Ladder
Weight : 20 kg (44 lb)

Width : 300 (11.9")

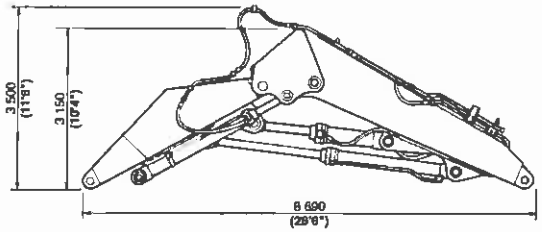
LOADING SHOVEL ATTACHMENTS

Bucket

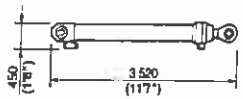


Bucket capacity	A mm (ft in)	B mm (ft in)	Max. Width mm (ft in)	Weight kg (lb)
5.9 m³ (7.7 yd³)	2 770 (9'1")	2 480 (8'2")	2 690 (8'10")	9 780 kg (21 600 lb)
6.5 m³ (8.5 yd³)	2 770 (9'1")	2 680 (8'10")	2 890 (9'6")	9 200 kg (20 300 lb)

Boom & arm assembly
Weight : 15 200 kg (33 520 lb)
Width : 1 620 (5'4")

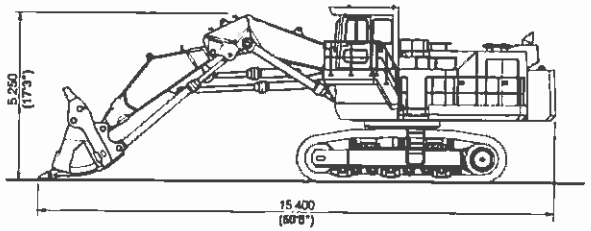


Boom Cylinders
Weight : 1 170 kg (2 580 lb)



OVERALL

LOADING SHOVEL
Weight : 111 000 kg (244 800 lb)
Width : 5 470 (17'11")

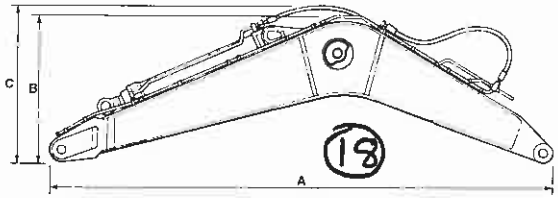


TRANSPORTATION

Unit: mm(ft in)

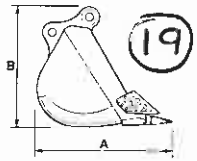
BACKHOE ATTACHMENTS

Boom

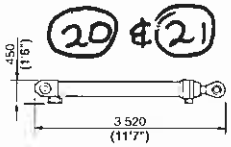


	Boom length	A	B	C	Width	Weight
EX1200-5D	9.1 m (29'10")	9 500 mm (31'2")	2 810 mm (9'3")	**3 100 mm** (10'2")	1 460 mm (4'9")	9 660 kg (21 300 lb)
EX1200-5D BE-boom	7.55 m (24'9")	7 960 mm (16'3")	3 150 mm (10'4")	3 400 mm (11'2")	1 460 mm (4'9")	9 080 kg (20 020 lb)

Bucket

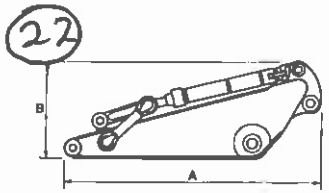


Boom cylinders



Weight : 1 170 kg (2 580 lb) x 2

Arm



	Arm length	A	B	Width	Weight
EX1200-5D	**3.4 m** (11'2")	4 830 mm (15'10")	1 850 mm (6'1")	960 mm (3'2")	5 970 kg (13 160 lb)
	4.5 m (14'9")	5 975 mm (19'7")	1 700 mm (5'7")	960 mm (3'2")	6 300 kg (13 890 lb)
	5.8 m (19'0")	7 200 mm (23'8")	1 750 mm (5'9")	985 mm (3'3")	5 930 kg (13 070 lb)
EX1200-5D BE-boom	**3.4 m** (11'2")	4 880 mm (16'0")	**1 850 mm** (6'1")	960 mm (3'2")	**6** 100 kg (13 450 lb)

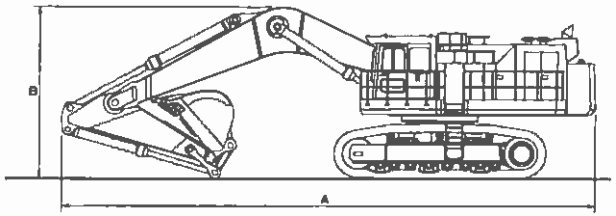
Capacity PCSA heaped	Capacity CECE heaped	A	B	Width	Weight	Type
3.0 m³ (3.92 yd³)	**2.7 m³**	1 890 mm (6'2")	2 310 mm (7'7")	1 800 mm (5'11")	3 100 kg (6 830 lb)	●
3.4 m³ (4.45 yd³)	**3.0 m³**	**1 890 mm (6'2")**	**2 310 mm (7'7")**	**1 940 mm (6'4")**	**3 250 kg (7 170 lb)**	○
3.5 m³ (4.58 yd³)	**3.2 m³**	2 300 mm (7'7")	2 480 mm (8'2")	1 460 mm (4'9")	4 300 kg (9 480 lb)	●
4.0 m³ (5.23 yd³)	**3.6 m³**	2 280 mm (7'6")	2 480 mm (8'2")	1 720 mm (5'8")	4 160 kg (9 170 lb)	○
4.5 m³ (5.89 yd³)	**4.0 m³**	2 300 mm (7'7")	2 480 mm (8'2")	1 810 mm (5'11")	4 650 kg (10 250 lb)	●
5.0 m³ (6.54 yd³)	**4.4 m³**	2 460 mm (8'1")	2 250 mm (7'5")	2 100 mm (6'11")	4 490 kg (9 900 lb)	○
5.0 m³ (6.54 yd³)	**4.4 m³**	2 560 mm (8'5")	2 280 mm (7'6")	1 960 mm (6'5")	5 460 kg (12 040 lb)	●
5.6 m³ (7.32 yd³)	**4.9 m³**	2 630 mm (8'8")	2 260 mm (7'5")	2 240 mm (7'4")	6 510 kg (14 350 lb)	●
6.5 m³ (8.50 yd³)	**5.7 m³**	2 710 mm (8'11")	2 240 mm (7'4")	2 310 mm (7'7")	6 350 kg (14 000 lb)	○

● Rock bucket ○ General purpose bucket

Unit: mm(ft in)

OVERALL

Backhoe

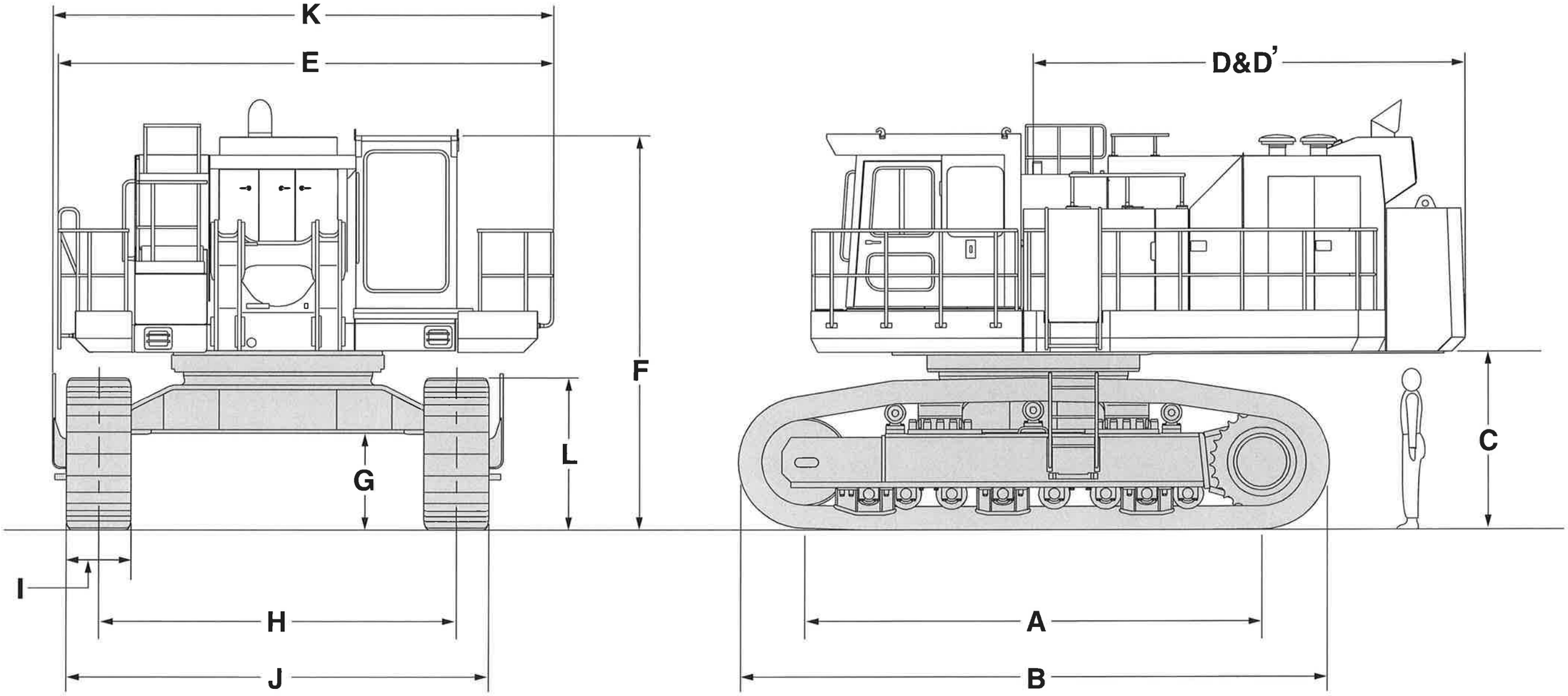


	A	B	Width
EX1200-5D	**16 170 mm** (53'1")	5 720 mm (18'9")	5 470 mm (17'11")
EX1200-5D BE-boom	14 620 mm (48'0")	6 400 mm (21'0")	5 470 mm (17'11")

HITACHI EX-1200 HYDRAULIC EXCAVATOR.
PACKING LIST

Quantity	Description	Length	Width	Hight	Volume	Weight	Freight	Dwg. Number		
1	Upper Structure	6.770	3.500	3.290	77.957	33.900	77.957	1		77.957
1	Radiator Cover	1.570	0.100	1.640	0.257	0.093	0.257	12		0.257
1	Oil Cooler Cover	1.380	0.100	1.640	0.226	0.085	0.226	13		0.226
1	Muffler Cover	1.160	1.390	0.929	1.498	0.200	1.498	3		1.498
1	R.H. Crawler	6.410	0.710	1.620	7.373	14.662	14.662	14		
1	L.H. Crawler	6.410	0.710	1.620	7.373	14.642	14.642	15		79.938
1	Counterweight	0.870	3.450	1.170	3.512	17.500	17.500	2		
1	Side Step	0.325	0.110	1.300	0.046	0.021	0.046	4		
1	Side Walk	2.360	1.020	1.350	3.250	0.217	3.250	5		
1	Fender	1.830	0.798	1.357	1.982	0.144	1.982	6		
1	Fender	2.087	0.644	1.357	1.824	0.160	1.824	7		
1	Sidewalk	2.030	0.835	1.350	2.288	0.181	2.288	8		
1	Sidewalk	0.754	0.192	1.160	0.168	0.018	0.168	9		
1	Handrail	1.250	0.680	1.020	0.867	0.264	0.867	10		
1	Handrail	0.832	0.500	0.307	0.128	0.047	0.128	11		
1	Boom (max)	9.500	1.460	3.100	42.997	9.660	42.997	18		
1	Arm (max)	7.200	0.985	1.750	12.411	6.000	12.411	22		
1	Bucket	2.600	2.260	2.240	13.162	6.510	13.162	19		
1	Boom Cylinder	3.520	0.450	0.450	0.713	1.170	1.170	20		
1	Boom Cylinder	3.520	0.450	0.450	0.713	1.170	1.170	21		

TOTAL VOLUME(M3) **178.744**
TOTAL WEIGHT (T) **106.644**
TOTAL FREIGHT (TM3) **208.205**


K
E
F
L
G
I
H
J
D&D'
C
A
B

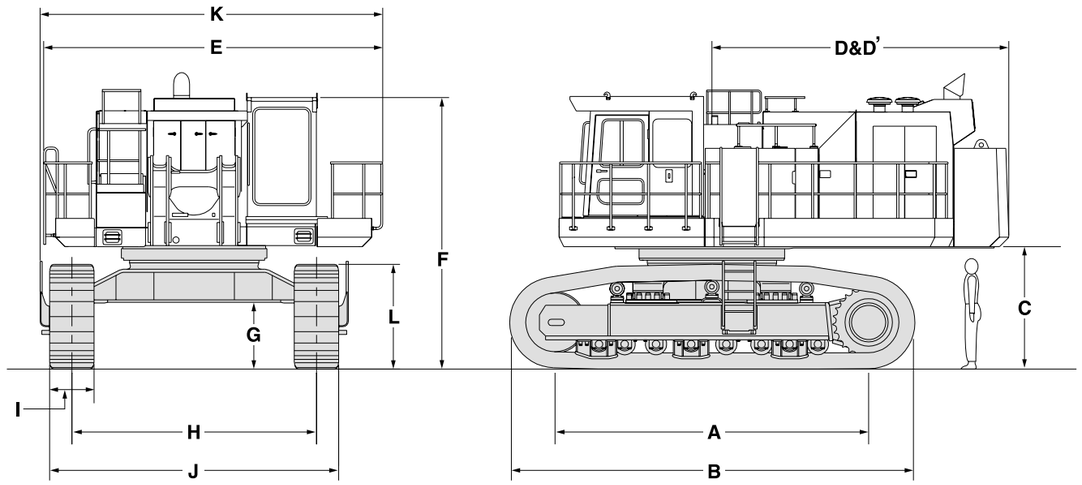
A	Distance between tumblers		5 000 mm	**(16'5")**
B	Undercarriage length		6 410 mm	**(21'0")**
C	Counterweight clearance		1 790 mm	**(5'10")**
D	Rear-end swing radius		4 850 mm	**(15'11")**
D'	Rear-end length		4 740 mm	**(15'7")**
E	Overall width of upperstructure		5 380 mm	**(17'8")**
F	Overall height of cab	Backhoe	4 320 mm	**(14'2")**
		Loading shovel	5 410 mm	**(17'9")**
G	Min. ground clearance		990 mm	**(3'3")**
H	Track gauge		3 900 mm	**(12'10")**
I	Track shoe width		710 mm	**(28")**
J	Undercarriage width		4 610 mm	**(15'1")**
K	Overall width		5 430 mm	**(17'10")**
L	Track height		1 570 mm	**(5'2")**

HITACHI

EX1200

- **Engine Gross Power** ····· **567 kW (760 HP)**
- **Operating Weight** ····· **EX1200-5D**
  Backhoe: 108 000 kg (238 100 lb)
  BE-front: 109 000 kg (240 300 lb)
  Loading Shovel: 111 000 kg (244 500 lb)
- **Backhoe Bucket** ····· **PCSA (1:1) Heaped: 3.0—6.5 m³ (3.92—8.50 yd³)**
  CECE (2:1) Heaped: 2.7—5.7 m³
- **Loading Shovel Bucket** ····· **PCSA (2:1) Heaped: 5.9—6.5 m³ (7.72—8.50 yd³)**

Specifications



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F	Overall height of cab	Backhoe	4 320 mm **(14'2")**	
		Loading shovel	5 410 mm **(17'9")**	
G	Min. ground clearance		990 mm **(3'3")**	
H	Track gauge		3 900 mm **(12'10")**	
I	Track shoe width		710 mm **(28")**	900 mm **(35")**
J	Undercarriage width		4 610 mm **(15'1")**	4 800 mm **(15'9")**
K	Overall width		5 430 mm **(17'10")**	
L	Track height		1 570 mm **(5'2")**	

These specifications are subject to change without notice

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KS-E377Q

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TECHNICAL DATA

ENGINE

Model ····· Cummins QSK23
Type ····· Water-cooled, 4-cycle, 6-cylinder in line, turbo-charged direct injection chamber-type diesel engine.
Rated power
DIN 6271, net ····· 538 kW (**731 PS**) at 1 650 min^{-1} (**rpm**)
SAE J1349, net ····· 538 kW (**721 HP**) at 1 650 min^{-1} (**rpm**)
SAE J1995, gross ····· 567 kW (**760 HP**) at 1 650 min^{-1} (**rpm**)
Maximum torque ····· 3 326 N·m (**339 kgf·m, 2 453lbf·ft**) at 1 200 min^{-1} (**rpm**)
Piston displacement ····· 23.15 L (**1 412 in^3**)
Bore and stroke ····· 170 mm x 170 mm (**6.7"** x **6.7"**)
Starting system ····· 24 V electric motor
Batteries ····· 2 x 12V , 2 x 220 AH

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.

- E-P Control (Computer-aided Engine-Pump Control system) Main pumps regulated by electronic engine-speed sensing control system. Optimum operation mode selectable among 3 power modes depending on type of job.
- OHS (Optimum Hydraulic System) assures fully independent and combined operations.
- FPS (Fuel-saving Pump System)
- Auto-idling system
- Quick-auto-idling system
- High-pressure 2-speed travel system for high traction force and travel speed.
- Forced-cooling pump drive system
- TIG (Tungsten Insert Gas) welding pipings

Main pumps ····· 3 variable-displacement, swash plate type axial piston pumps
Main. oil flow ··· 3 x 495 L/min (**3 x 130.8 US gpm, 3 x 108.9 Imp gpm**)
Pilot pump ····· Gear pump
Max. oil flow ···· 63.0 L/min (**16.6 US gpm,13.9 Imp gpm**)

Relief Valve Settings
Boom/arm/bucket circuit ····· 31.4 MPa (**320 kgf/cm², 4 550 psi**)
Swing circuit ····· 29.4 MPa (**300 kgf/cm², 4 270 psi**)
Travel circuit ····· 31.4 MPa (**320 kgf/cm², 4 550 psi**)
Pilot circuit ····· 5.2 MPa (**53 kgf/cm², 650 psi**)

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

Dimensions

Backhoe

	Quan.	Bore	Rod diameter
Boom	2	230 mm (**9.1"**)	160 mm (**6.3"**)
Arm	1	260 mm (**10.2"**)	180 mm (**7.1"**)
Bucket	1	230 mm (**9.1"**)	160 mm (**6.3"**)

Loading shovel

	Quan.	Bore	Rod diameter
Boom	2	230 mm (**9.1"**)	160 mm (**6.3"**)
Arm	1	215 mm (**8.5"**)	150 mm (**5.9"**)
Bucket	2	200 mm (**7.9"**)	150 mm (**5.9"**)
Dump	2	140 mm (**5.5"**)	85 mm (**3.3"**)
Level	1	230 mm (**9.1"**)	160 mm (**6.3"**)

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

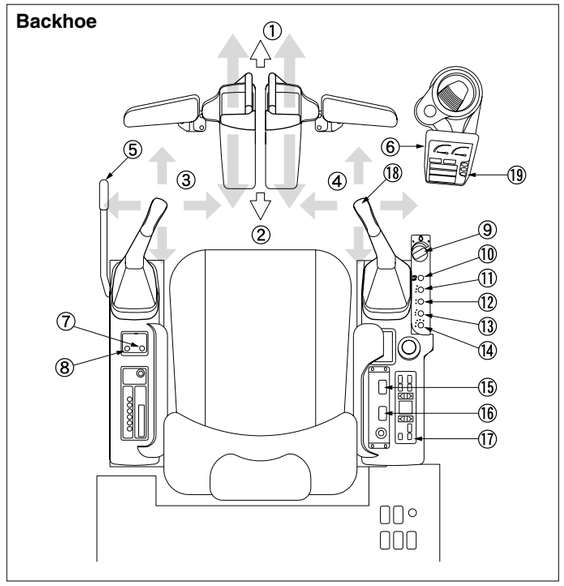
	Qty.	
Full flow filter	2	10 μm
Drain filter	1	10 μm
(For all plunger type pumps & motors)		
Suction filter	2	177 μm
Pilot filter	1	10 μm

These filters are centralized in arrangement for facilitating maintenance.

CONTROLS

2 Implement Levers
Remote-controlled joystick hydraulic servo system. 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.

2 Travel Levers with Pedals
Remote-controlled hydraulic servo system. Independent drive at each track allows counter rotation of tracks.

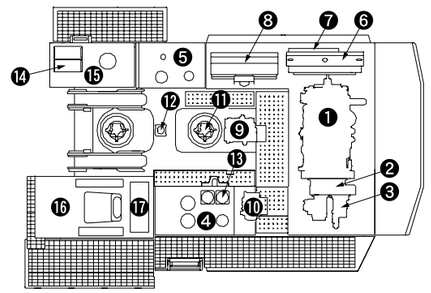


① Travel Forward
② Travel Reverse
③ Swing/Arm Control Lever
④ Boom/Bucket Control Lever
⑤ Pilot Control Shut-off Lever
⑥ Monitor Panel
⑦ Engine Preheat Switch
⑧ Entrance Light Switch
⑨ Engine Control Dial
⑩ Auto Idling Switch
⑪ Power Mode Swtich
⑫ Travel Mode Switch
⑬ Work Light Switch
⑭ Wiper Washer Switch
⑮ Boom Mode Selector Switch (Comfortable Mode / Powerful Mode)
⑯ Heavy Lifting Switch
⑰ Air Conditioner Switch
⑱ Quick Idling Switch
⑲ Auto-Lubrication Switch

UPPERSTRUCTURE

Revolving Frame
A deep, full-reinforced box section. Heavy-gauge steel plates used for ruggedness.

Deck Machinery
Maintenance accessibility is the major feature in the layout of deck machinery. Sidewalks provide easy access to engines, hydraulic and electrical components.



❶ Engine
❷ Pump Drive Unit
❸ Hydraulic Pump x 3
❹ Hydraulic Tank
❺ Fuel Tank
❻ Engine Radiator
❼ Engine Air Cooler
❽ Oil Cooler
❾ Main Control Valve
❿ Swing Control Valve
⓫ Swing Device x 2
⓬ Center Joint
⓭ Filters
⓮ Batteries
⓯ Batteries and Lubricator Box
⓰ Operator Cab
⓱ Air-Conditioning Unit

Swing Mechanism
2 high-torque, axial-piston motors with planetary reduction gear bathed in oil. Swing circle is single-row, shear-type ball bearing with induction-hardened internal gear. Internal gear and pinion gear immersed in lubricant. Swing parking brake is spring-set, hydraulic-released disc type.
Swing speed ····· 5.8 min^{-1} (**rpm**)

Operator's Cab
Steel construction with integrated, falling-object-protective structure meeting SAE FOPS. Independent, pressurized, 1 100 mm (**3'7"**) wide, 1 900 mm(**6'3"**) high, roomy 3.46 m^3 (**4.53 yd^3**) cab with tinted-glass windows features all-round visibility. Spring-suspension-type, fully-adjustable reclining seat with armrests; movable with or without front and swing control levers by slide. Instrument and control panel is built in cab wall is in easy range of the operator.
Powerful fresh air ventilation type air conditioner. Cool-and-hot box and rotatable blower louvers also serve as defrosters. Thus, rapid air-conditioning can be achieved for operator comfort. Fluid-filled elastic-mounting and sound-proofing structure to reduce noise level and vibration.
Noise level ····· 78 dB(A) in the cab; on max. engine speed under no-load condition.

TECHNICAL DATA

UNDERCARRIAGE

Tracks
Tractor-type undercarriage. Bolt linkage for side 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 sprockets with floating seals. Track shoes of cast steel with double grousers. Double strut reinforced track links with track guards. Hydraulic (grease) track adjusters with shock absorbing recoil springs.

Tractor-type Undercarriage
Double grouser track shoes of induction-hardened cast steel.
Shoe width ..... 710 mm (**28"**) standard
900 mm (**35"**) optional for Backhoe attachment only

Numbers of Rollers and Shoes (each Side)
Upper rollers 3
Lower rollers 8
Track shoes 52

Traction Device
Each track driven by a high-torque, axial piston motor through planetary reduction gears, allowing counter rotation of the tracks. Easily replaceable sprockets. Parking brake of spring-set, hydraulic-released disc type.
Travel speeds ..... Low : 0 to 2.4 km/h (**1.5 mph**)
High:0 to 3.5 km/h (**2.2 mph**)
Maximum traction force..... 618 kN
(**63 000 kgf, 138 900 lbf**)
Gradeability..... 35˚(**70%**) max.

WEIGHTS AND GROUND PRESSURE

Backhoe
EX1200-5D: Equipped with 9.1 m (**29'10"**) boom, 3.4 m (**11'2"**) arm, and 5.0 m³ (**6.54 yd³; PCSA heaped**) bucket

Shoe type	Shoe width	Operating weight	Ground pressure
Double grousers	710 mm (**28"**)	108 000 kg (**238 100 lb**)	136 kPa (**1.39 kgf/cm², 19.7 psi**)
	900 mm (**35"**)	110 000 kg (**242 500 lb**)	109 kPa (**1.11 kgf/cm², 15.8 psi**)

EX1200-5D BE-front: Equipped with 7.55 m (**24'9"**) BE-boom, 3.4 m (**11'2"**) BE-arm, and 6.5 m³ (**8.50 yd³; PCSA heaped**) bucket

Shoe type	Shoe width	Operating weight	Ground pressure
Double grousers	710 mm (**28"**)	109 000 kg (**240 300 lb**)	137 kPa (**1.40 kgf/cm², 19.9 psi**)
	900 mm (**35"**)	111 000 kg (**244 700 lb**)	110 kPa (**1.12 kgf/cm², 16.0 psi**)

Loading Shovel
Equipped with 6.5 m³ (**8.5 yd³;PCSA heaped**) bottom dump bucket

Shoe type	Shoe width	Operating weight	Ground pressure
Double grousers	710 mm (**28"**)	111 000 kg (**244 700 lb**)	139 kPa (**1.40 kgf/cm², 20.2 psi**)

SERVICE REFILL CAPACITIES

	liters	US gal	Imp gal
Fuel tank	1 400	370.0	308.0
Engine coolant	113	29.9	24.9
Engine oil	70	18.5	15.4
Pump drive	15	4.0	3.3
Swing device (each side)	25	6.6	5.5
Travel final device ..... (each side)	220	11.4	9.5
Hydraulic tank	610	161.2	134.2
Hydraulic system	1 350	356.7	297.0

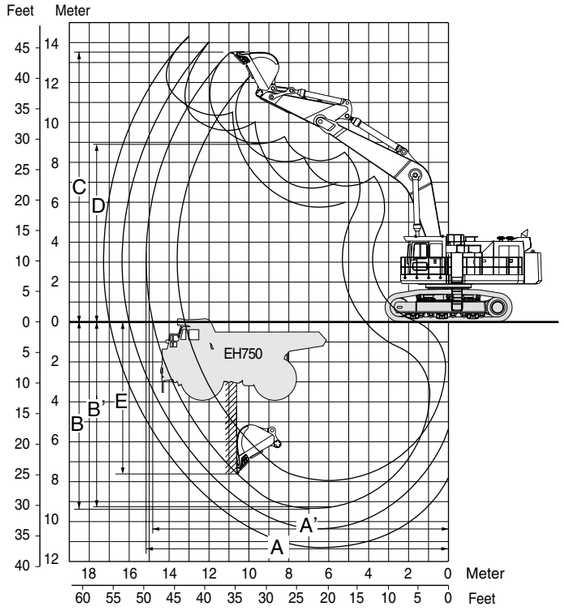
BACKHOE ATTACHMENTS

Boom and arm are all-welded, low-stress, full-box section design. Bucket of all-welded high-strength steel structure, side clearance adjust mechanism is provided on the bucket joint brackets.

- Two-points support-type boom cylinder pin linkage
- Double lip pin seals (in all portions) plus O-ring with protector ring at arm top and link A
- Helilock bucket teeth
- Flexible pin at the arm tip
- Wear-resistant plate at the arm-tip boss

BE (Bulk Excavation) front
BE-front: The EX1200-5D BE-front is designed and manufactured as a production-oriented machine. Its features include a short arm and boom, large-capacity bucket, large-digging force and superb digging / loading capability.

WORKING RANGES



Boom length		7.55 m(24'9")BE-boom	9.1 m(29'10")		
Arm length		3.4 m(11'2")BE-arm	3.4 m(11'2")	4.5 m(14'9")	5.8 m(19'0")
A Max. digging reach		13 760 (**45'2"**)	15 340 (**50'4"**)	16 380 (**53'9"**)	17 360 (**56'11"**)
A' Max. digging reach (on ground)		13 380 (**43'11"**)	15 000 (**49'3"**)	16 070 (**52'9"**)	17 070 (**56'0"**)
B Max. digging depth		7 940 (**26'1"**)	9 340 (**30'8"**)	10 420 (**34'2"**)	11 420 (**37'6"**)
B' Max. digging depth (8'level)		7 820 (**25'8"**)	9 210 (**30'3"**)	10 310 (**33'10"**)	11 330 (**37'2"**)
C Max. cutting height		12 300 (**40'4"**)	13 490 (**44'3"**)	14 020 (**46'0"**)	14 400 (**47'3"**)
D Max. dumping height		8 020 (**26'4"**)	8 920 (**29'3"**)	9 430 (**30'11"**)	10 360 (**34'0"**)
E Max. vertical wall depth		5 080 (**16'8"**)	7 620 (**25'0"**)	8 880 (**29'2"**)	10 360 (**34'0"**)
Bucket digging force kN (kgf,lbf)	ISO	550 (**56 100 , 123 700**)	457 (**46 600, 102 700**)	457 (**46 600, 103 000**)	326 (**33 200, 73 200**)
	SAE:PCSA	500 (**51 000 , 112 400**)	418 (**42 600, 93 900**)	418 (**42 600, 93 900**)	293 (**29 900, 65 900**)
Arm crowd force kN (kgf,lbf)	ISO	412 (**42 000 , 92 600**)	411 (**41 900, 92 400**)	330 (**33 700, 74 300**)	287 (**29 300, 64 600**)
	SAE:PCSA	402 (**41 000 , 90 400**)	402 (**41 000, 90 400**)	325 (**33 100, 73 000**)	284 (**29 000, 63 900**)

Buckets

Capacity		Width		No. of teeth	Weight	Type	Materials density kg/m³ (lb/yd³)			
							BE-front	9.1m (29'10") boom		
PCSA heaped (1:1)	CECE heaped (2:1)	Without shroud	With shroud				7.55 m (24'9") BE-boom 3.4 m (11'2") BE-arm	3.4 m (11'2") arm	4.5 m (14'9") arm	5.8 m (19'0") arm
3.0 m³(3.92 yd³)	2.7 m³	1 700 mm (5'7")	1 800 mm (5'11")	5	3 100 kg (6 830 lb)	●				1 800 (3 030)
3.4 m³(4.45 yd³)	3.0 m³	1 840 mm (6'0")	1 940 mm (6'4")	5	3 250 kg (7 170 lb)	◎				1 800 (3 030)
3.5 m³(4.58 yd³)	3.2 m³	1 470 mm (4'10")	1 570 mm (5'2")	4	4 300 kg (9 480 lb)	●			1 800 (3 030)	
4.0 m³(5.23 yd³)	3.6 m³	1 620 mm (5'4")	1 720 mm (5'8")	5	4 160 kg (9 170 lb)	◎			1 800 (3 030)	
4.5 m³(5.89 yd³)	4.0 m³	1 710 mm (5'7")	1 810 mm (5'11")	5	4 650 kg (10 250 lb)	●		1 800 (3 030)		
5.0 m³(6.54 yd³)	4.4 m³	1 920 mm (6'11")	2 100 mm (6'11")	5	4 490 kg (9 900 lb)	◎		1 800 (3 030)		
5.0 m³(6.54 yd³)	4.4 m³	1 860 mm (6'1")	1 960 mm (6'5")	5	5 460 kg (12 040 lb)	●		1 800 (3 030)		
5.6 m³(7.32 yd³)	4.9 m³	2 140 mm (7'0")	2 240 mm (7'4")	5	6 510 kg (14 350 lb)	●	1 800 (3 030)			
6.5 m³(8.50 yd³)	5.7 m³	2 210 mm (7'3")	2 310 mm (7'7")	6	6 350 kg (14 000 lb)	◎	1 800 (3 030)			

●:Rock bucket ◎:General purpose bucket

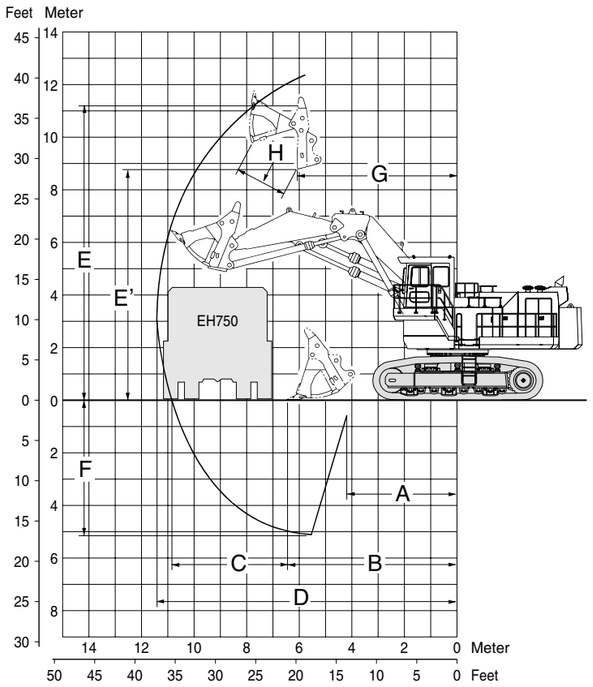
TECHNICAL DATA

LOADING SHOVEL ATTACHMENTS

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

- Dual-support-type boom/arm/bucket pin linkage
- Double lip pin seals plus O-ring with protector ring at arm top

WORKING RANGES



	Bottom dump type
A Min. digging distance	4 460 mm (**14'8"**)
B Min. level crowding distance	6 520 mm (**21'5"**)
C Level crowding distance	4 340 mm (**14'3"**)
D Max. digging reach	11 440 mm (**37'6"**)
E Max. cutting height	12 350 mm (**40'6"**)
E' Max. dumping height	8 740 mm (**28'8"**)
F Max. digging depth	5 240 mm (**17'2"**)
G Working radius at max. dumping height	6 090 mm (**20'0"**)
H Max. bucket opening width	1 880 mm (**6'2"**)
Crowding force	583 kN (**59 400 kgf, 131 000 lbf**)
Breakout force	589 kN (**60 100 kgf, 132 500 lbf**)

Bucket (PCSA heaped 2:1)

Capacity	Width	No.of teeth	Weight	Type	Materials density
5.9 m³ (**7.72 yd³**)	2 510 mm (**8'3"**)	6	9 780 kg (**21 600 lb**)	●	1 800 kg/m³ (**3 030 lb/yd³**)
6.5 m³ (**8.50 yd³**)	2 700 mm (**8'10"**)	6	9 200 kg (**20 300 lb**)	◎	1 800 kg/m³ (**3 030 lb/yd³**)

●:Bottom dump type rock bucket
◎:Bottom dump type general purpose bucket

STANDARD EQUIPMENT

Standard equipment may vary by country, so please consult your Hitachi dealer for details.

ENGINE
- S/P model control
- E mode control
- 75 A alternator
- Dry-type air filter with clean dust cup
- Cartridge-type engine oil filter
- Cartridge-type fuel filter
- Water filter
- Radiator and air cooler with dust protective net
- Radiator reserve tank
- Fan guard
- Isolation-mounted engine
- Auto-idle system
- Quick-idle system
- Overheat prevention device

HYDRAULIC SYSTEM
- E-P control system
- OHS (Optimum Hydraulic System)
- FPS (Fuel-saving Pump System)
- Heavy lifting system
- Boom mode selector system
- Forced-lubrication and forced cooling pump drive system
- Control valve with main relief valve
- Suction filter
- Full-flow filter
- Pilot filter
- Pump drain filter

CAB
- All-weather sound-suppressed steel integrated cab with headguard (SAE FOPS conforming), laminated glass windshield, reinforced/tinted (bronze color) glass front and side and rear windows, intermittent wiper interlocked with front windshield washer, adjustable reclining seat with adjustable armrests, footrest, electrical horn, auto-tuning AM-FM radio with digital clock, seat belt, cigarette lighter, ashtray, parcel pocket, glove compartment, floor mat, auto-idle switch, sun visor, evacuation hammer, preheat switch, auto air conditioner with defroster, hot and cool box, engine control dial, and pilot control shut-off lever.

MONITOR SYSTEMS
- Meters:
  Hourmeter and trip-meter, engine coolant temperature gauge and fuel gauge, auto-idle, quick-idle indicator, lubrication mode indicator.
- Warning indicators:
  Radiator water level, engine oil level, hydraulic oil level, fuel level, auto lubrication, air-filter restriction, pump transmission oil pressure, alternator, over heat, engine oil pressure, engine stop, work light, preheat, and engine warning.
- Hour meter and trip-meter select switch
- Reset switch
- Lubrication mode select switch

DATA LOGGING SYSTEM
- DLU (Data-logging unit) continuously records performance of the engine and the hydraulic system. The record can be down-loaded by PDA (Palm m-series).

LIGHTS
- 4 working lights, 2 cab lights
- 1 entrance light

UPPERSTRUCTURE
- Undercover
- 175 000 kg (38 580 lb) counterweight
- Electric grease gun with hose reel
- Centralized lubrication system for swing bearing
- Control valves with main relief valves and port relief valves
- Slow return orifices and make up valves for cylinder circuits

UNDERCARRIAGE
- Spring-set/hydraulic-released disc type parking brake
- Hydraulic (grease) track adjuster with shock absorbing recoils spring
- Travel motor cover
- Track and idler guards

MISCELLANEOUS
- Standard tool kit
- ISO conforming stairs and handrails
- Wide side walk
- Auto-lubrication system for front-attachment
- 12 V power terminal board
- Slip resistance tapes
- Elevated Cab (for Loading Shovel)

OPTIONAL EQUIPMENT

Optional equipment may very by country, so please consult your Hitachi dealer for details.

- Travel motion alarm device
- High cab kit (for Backhoe)
- Full track guard

TRANSPORTATION

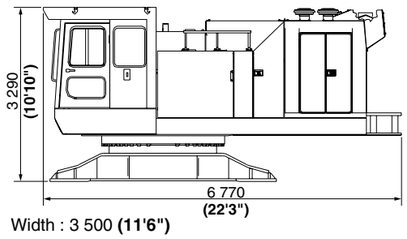
- Easily assembled owning to local assembling system requiring no welding
- Overall width of below 3 500 (11'6") during transportation

Unit: mm(ft in)

UPPERSTRUCTURE

Upperstructure

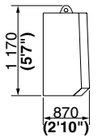
Weight : 33 900 kg **(74 700 lb)**



Width : 3 500 **(11'6")**

Counterweight

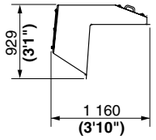
Weight : 17 500 kg **(38 600 lb)**



Width : 3 450 **(11'4")**

Muffler Cover

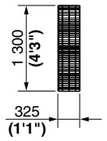
Weight : 90.7 kg **(200 lb)**



Width : 1 390 **(4'7")**

Side step

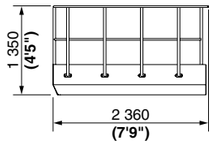
Weight : 21 kg **(46 lb)**



Width : 110 **(4")**

Side walk for Backhoe

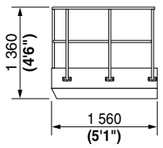
Weight : 217 kg **(478 lb)**



Width : 1 020 **(3'4")**

Side walk for Loading shovel

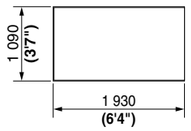
Weight : 180 kg **(397 lb)**



Width : 1 050 **(3'5")**

High cab kit for Loading shovel (Optional equipment for Backhoe)

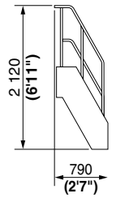
Weight : 590 kg **(1 300 lb)**



Width : 1 100 **(3'7")**

Step for loading shovel

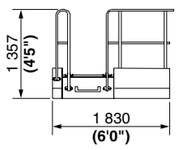
Weight : 145 kg **(320 lb)**



Width : 1 050 **(3'5")**

Fender (Left rear side)

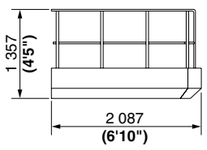
Weight : 144 kg **(317 lb)**



Width : 798 **(2'7")**

Fender (Left rear side)

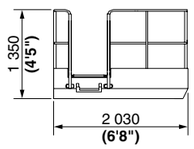
Weight : 160 kg **(353 lb)**



Width : 644 **(2'1")**

Side walk

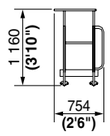
Weight : 181 kg **(400 lb)**



Width : 835 **(2'9")**

Side walk

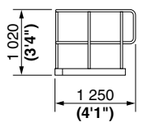
Weight : 18 kg **(40 lb)**



Width : 192 **(7.6")**

Handrail

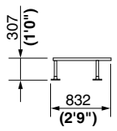
Weight : 264 kg **(582 lb)**



Width : 680 **(2'3")**

Handrail

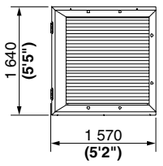
Weight : 46 kg **(101 lb)**



Width : 50 **(0'2")**

Radiator cover

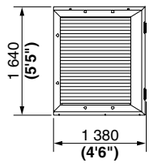
Weight : 93 kg **(205 lb)**



Width : 100 **(3.9")**

Oil cooler cover

Weight : 85 kg **(187 lb)**



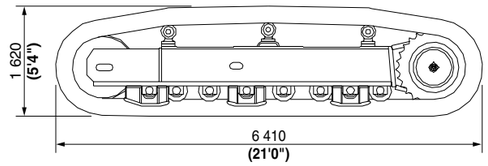
Width : 100 **(3.9")**

Unit: mm(ft in)

UNDERCARRIAGE

Side frame

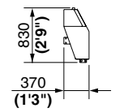
Weight : 14 600 kg **(32 200 lb)** x 2



Width : 710 **(2'4")**

Traction device cover

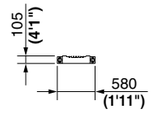
Weight : 24 kg **(53 lb)** x 2



Width : 330 **(1'1")**

Steps

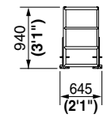
Weight : 18 kg **(40 lb)** x 2



Width : 125 **(2'9")**

Ladder

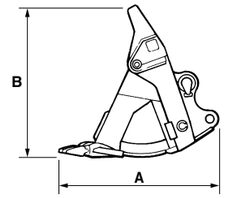
Weight : 20 kg **(44 lb)**



Width : 300 **(11.9")**

LOADING SHOVEL ATTACHMENTS

Bucket

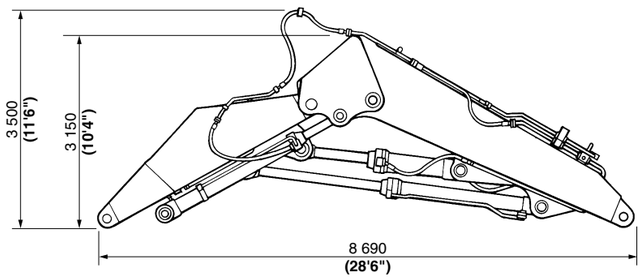


Backet capacity	A mm (ft in)	B mm (ft in)	Max. Width mm (ft in)	Weight kg (lb)
5.9 m³ (7.7 yd³)	2 770 (9'1")	2 480 (8'2")	2 690 (8'10")	9 780 kg (21 600 lb)
6.5 m³ (8.5 yd³)	2 770 (9'1")	2 680 (8'10")	2 890 (9'6")	9 200 kg (20 300 lb)

Boom & arm assembly

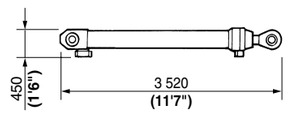
Weight : 15 200 kg **(33 520 lb)**

Width : 1 620 **(5'4")**



Boom Cylinders

Weight : 1 170 kg **(2 580 lb)**

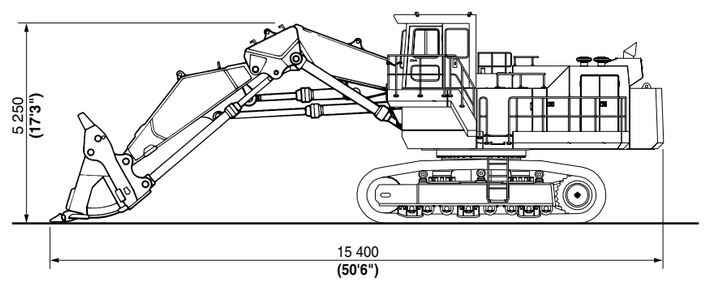


OVERALL

LOADING SHOVEL

Weight : 111 000 kg **(244 800 lb)**

Width : 5 470 **(17'11")**

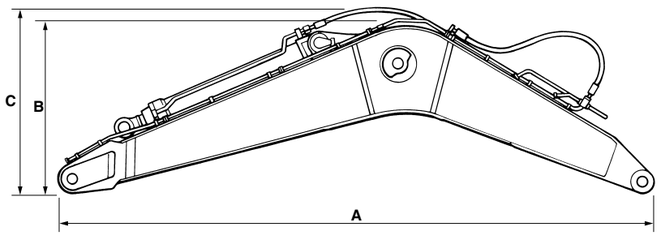


TRANSPORTATION

Unit: mm(ft in)

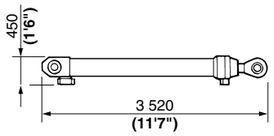
BACKHOE ATTACHMENTS

Boom



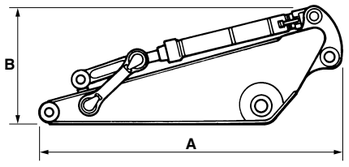
	Boom length	A	B	C	Width	Weight
EX1200-5D	9.1 m **(29'10")**	9 500 mm **(31'2")**	2 810 mm **(9'3")**	3 100 mm **(10'2")**	1 460 mm **(4'9")**	9 660 kg **(21 300 lb)**
EX1200-5D BE-boom	7.55 m **(24'9")**	7 960 mm **(16'3")**	3 150 mm **(10'4")**	3 400 mm **(11'2")**	1 460 mm **(4'9")**	9 080 kg **(20 020 lb)**

Boom cylinders



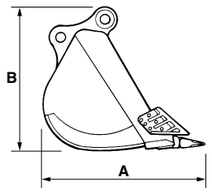
Weight : 1 170 kg (2 580 lb) x 2

Arm



	Arm length	A	B	Width	Weight
EX1200-5D	3.4 m **(11'2")**	4 830 mm **(15'10")**	1 850 mm **(6'1")**	960 mm **(3'2")**	5 970 kg **(13 160 lb)**
	4.5 m **(14'9")**	5 975 mm **(19'7")**	1 700 mm **(5'7")**	960 mm **(3'2")**	6 300 kg **(13 890 lb)**
	5.8 m **(19'0")**	7 200 mm **(23'8")**	1 750 mm **(5'9")**	985 mm **(3'3")**	5 930 kg **(13 070 lb)**
EX1200-5D BE-boom	3.4 m **(11'2")**	4 880 mm **(16'0")**	1 850 mm **(6'1")**	960 mm **(3'2")**	6 100 kg **(13 450 lb)**

Bucket



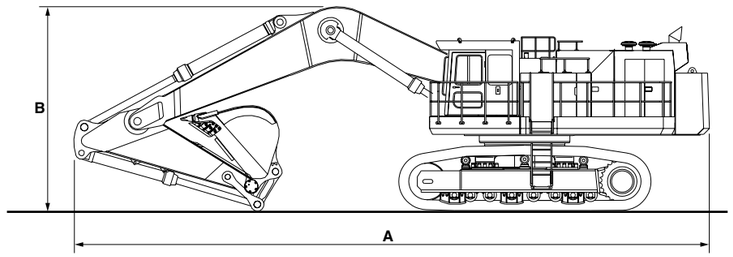
Capacity		A	B	Width	Weight	Type
PCSA heaped	CECE heaped					
3.0 m³ **(3.92 yd³)**	2.7 m³	1 890 mm **(6'2")**	2 310 mm **(7'7")**	1 800 mm **(5'11")**	3 100 kg **(6 830 lb)**	●
3.4 m³ **(4.45 yd³)**	3.0 m³	1 890 mm **(6'2")**	2 310 mm **(7'7")**	1 940 mm **(6'4")**	3 250 kg **(7 170 lb)**	◎
3.5 m³ **(4.58 yd³)**	3.2 m³	2 300 mm **(7'7")**	2 480 mm **(8'2")**	1 460 mm **(4'9")**	4 300 kg **(9 480 lb)**	●
4.0 m³ **(5.23 yd³)**	3.6 m³	2 280 mm **(7'6")**	2 480 mm **(8'2")**	1 720 mm **(5'8")**	4 160 kg **(9 170 lb)**	◎
4.5 m³ **(5.89 yd³)**	4.0 m³	2 300 mm **(7'7")**	2 480 mm **(8'2")**	1 810 mm **(5'11")**	4 650 kg **(10 250 lb)**	●
5.0 m³ **(6.54 yd³)**	4.4 m³	2 460 mm **(8'1")**	2 250 mm **(7'5")**	2 100 mm **(6'11")**	4 490 kg **(9 900 lb)**	◎
5.0 m³ **(6.54 yd³)**	4.4 m³	2 560 mm **(8'5")**	2 280 mm **(7'6")**	1 960 mm **(6'5")**	5 460 kg **(12 040 lb)**	●
5.6 m³ **(7.32 yd³)**	4.9 m³	2 630 mm **(8'8")**	2 260 mm **(7'5")**	2 240 mm **(7'4")**	6 510 kg **(14 350 lb)**	●
6.5 m³ **(8.50 yd³)**	5.7 m³	2 710 mm **(8'11")**	2 240 mm **(7'4")**	2 310 mm **(7'7")**	6 350 kg **(14 000 lb)**	◎

●: Rock bucket ◎: General purpose bucket

Unit: mm(ft in)

OVERALL

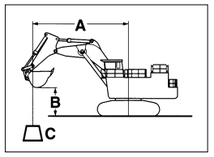
Backhoe



	A	B	Width
EX1200-5D	16 170 mm **(53'1")**	5 720 mm **(18'9")**	5 470 mm **(17'11")**
EX1200-5D BE-boom	14 620 mm **(48'0")**	6 400 mm **(21'0")**	5 470 mm **(17'11")**

LIFTING CAPACITIES

METRIC MEASURE



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

Rating over-side or 360 degrees | Rating over-front | Unit: 1 000 kg

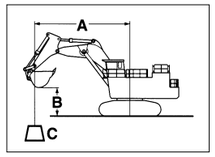
Conditions	Load point height	Load radius 3 m		4 m		6 m		8 m		10 m		12 m		At max. reach		meter
EX1200-5D BE-boom 7.55 m BE-arm 3.4 m Bucket PCSA : 6.5 m³ CECE : 5.7 m³ Shoes 710 mm	8 m									*14.6	*14.6			*5.46	5.46	12.6
										*16.1	*16.1			*6.19	*6.19	
	6 m									*15.5	*15.5			*5.48	*5.48	13.1
										*17.1	*17.1			*6.21	*6.21	
	4 m							*22.4	*22.4	17.2	*17.4	11.6	*12.9	*5.81	*5.81	13.2
								*24.5	*24.5	17.2	*19.2	11.6	*14.1	*6.56	*6.56	
	2 m							23.7	*26.4	16.1	*19.5	11.1	*15.7	*6.47	*6.47	13.0
								23.7	*28.9	16.1	*21.5	11.1	*16.1	*7.27	*7.27	
	0 (Ground)							22.4	*28.3	15.2	*20.7	10.7	*13.7	*7.62	*7.62	12.4
								22.4	*31.0	15.2	21.7	10.7	*14.9	*8.48	*8.48	
	−2 m					*31.4	*31.4	22.0	*27.7	14.8	*20.4			*9.60	*9.60	11.2
						*33.4	*33.4	22.0	*30.4	14.8	21.3			*10.6	*10.6	
	−4 m					*32.3	*32.3	22.2	*24.3	15.1	*17.1					
						*35.4	*35.4	22.2	*26.8	15.1	*19.0					
	−6 m					*22.0	*22.0	*15.5	*15.5							
						*24.4	*24.4	*17.3	*17.3							

Conditions	Load point height	Load radius 3 m		4 m		6 m		8 m		10 m		12 m		At max. reach		meter
EX1200-5D Boom 9.1 m Arm 3.4 m Bucket PCSA : 5.0 m³ CECE : 4.4 m³ Shoes 710 mm	8 m													*8.88	*8.88	14.1
														*9.64	*9.73	
	6 m									*15.2	*15.2			8.54	*8.92	14.6
										*16.8	*16.8			8.54	*9.77	
	4 m									*17.2	*17.2			8.01	*9.21	14.8
										17.5	*19.0			8.01	*10.1	
	2 m									16.3	*19.1			7.97	*9.78	14.6
										16.3	*21.1			7.97	*10.7	
	0 (Ground)									15.5	*20.3			8.44	*10.7	14.1
										15.5	21.5			8.44	*11.7	
	−2 m							21.9	*27.4	15.1	*20.5			9.64	*12.2	13.3
								21.9	*30.1	15.1	21.1			9.64	*13.3	
	−4 m					*33.5	*33.5	22.1	*25.6	15.2	*19.4			*11.9	*11.9	11.9
						*36.8	*36.8	22.1	*28.2	15.2	21.2			12.2	*13.3	
	−6 m					*28.3	*28.3	*21.8	*21.8	*15.5	*15.5					
						*31.1	*31.1	22.8	*24.1	15.9	*17.3					

With heavy lifting system

Notes: 1.Ratings are based on SAE J1097.
2.Lifting capacity of the EX Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
3.The load point is a hook (not standard equipment) loaded on the back of the bucket.
4.*Indicates load limited by hydraulic capacity.

METRIC MEASURE



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

Rating over-side or 360 degrees | Rating over-front | Unit: 1 000 kg

Conditions	Load point height	Load radius 4 m		6 m		8 m		10 m		12 m		14 m		At max. reach		meter
EX1200-5D Boom 9.1 m Arm 4.5 m Bucket PCSA : 4.0 m³ CECE : 3.6 m³ Shoes 710 mm	10 m									*10.2	*10.2			*5.24	*5.24	14.6
										*11.1	*11.1			*5.87	*5.87	
	8 m									*11.5	*11.5			*5.07	*5.07	15.4
										*12.8	*12.8			*5.68	*5.68	
	6 m									*12.1	*12.1			*5.09	*5.09	15.9
										*13.5	*13.5			*5.71	*5.71	
	4 m					*20.6	*20.6	*15.8	*15.8	13.0	*13.3	9.22	*11.5	*5.28	*5.28	16.0
						*22.6	*22.6	*17.5	*17.5	13.0	*14.8	9.22	*12.6	*5.92	*5.92	
	2 m					24.3	*24.6	16.9	*18.1	12.2	*14.5	8.86	*12.5	*5.67	*5.67	15.8
						24.3	*27.0	16.9	*20.0	12.2	*16.2	8.86	12.5	*6.33	*6.33	
	0 (Ground)					22.8	*27.0	15.9	*19.8	11.6	*15.6	8.54	12.2	*6.30	*6.30	15.4
						22.8	*29.7	15.9	*21.8	11.6	16.1	8.54	12.2	*7.00	*7.00	
	−2 m					22.1	*27.8	15.3	*20.6	11.2	15.7			*7.28	*7.28	14.6
						22.1	*30.5	15.3	21.3	11.2	15.7			*8.04	*8.04	
	−4 m	*19.8	*19.8	36.3	*36.7	22.0	*26.9	15.1	*20.2	11.1	*15.4			*8.87	*8.87	13.3
		*21.5	*21.5	36.3	*40.2	22.0	*29.6	15.1	21.1	11.1	15.6			*9.72	*9.72	
	−6 m	*38.1	*38.1	*32.4	*32.4	22.4	*24.3	15.4	*18.2							
		*40.9	*40.9	*35.6	*35.6	22.4	*26.8	15.4	*20.1							
	−8 m			*25.0	*25.0	*18.6	*18.6									
				*27.6	*27.6	*20.7	*20.7									

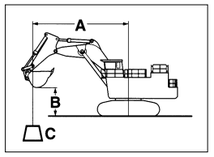
Conditions	Load point height	Load radius 2 m		4 m		6 m		8 m		10 m		12 m		14 m		At max. reach		meter
EX1200-5D Boom 9.1 m Arm 5.8 m Bucket PCSA : 3.4 m³ CECE : 3.0 m³ Shoes 710 mm	8 m													*9.25	*9.25	*4.38	*4.38	16.2
														*10.1	*10.1	*4.93	*4.93	
	6 m											*11.8	*11.8	11.0	*11.2	*4.38	*4.38	16.7
												*13.0	*13.0	11.0	*12.5	*4.93	*4.93	
	4 m									*15.2	*15.2	*13.1	*13.1	10.6	*11.9	*4.52	*4.52	16.8
										*16.8	*16.8	14.4	*14.5	10.6	*13.2	*5.08	*5.08	
	2 m							*23.4	*23.4	*17.8	*17.8	13.6	*14.6	10.1	*12.7	*4.82	*4.82	16.7
								*25.6	*25.6	18.6	*19.5	13.6	*16.2	10.1	13.8	*5.39	*5.39	
	0 (Ground)							24.6	*26.8	17.4	*19.9	12.8	*16.0	9.64	13.3	*5.30	*5.30	16.3
								24.6	*29.3	17.4	*21.9	12.8	17.4	9.64	13.3	*5.90	*5.90	
	−2 m					*22.8	*22.8	23.4	*28.5	16.5	*21.3	12.2	16.8	9.33	13.0	*6.04	*6.04	15.6
						*24.5	*24.5	23.4	*31.2	16.5	22.5	12.2	16.8	9.33	13.0	*6.69	*6.69	
	−4 m			*17.4	*17.4	*33.4	*33.4	22.9	*28.7	16.1	*21.7	12.0	16.5	9.28	*11.5	*7.19	*7.19	14.5
				*18.9	*18.9	*35.9	*35.9	22.9	*31.5	16.1	22.1	12.0	16.5	9.28	*12.5	*7.91	*7.91	
	−6 m	*22.0	*22.0	*29.4	*29.4	37.2	*37.4	23.0	*27.3	16.1	*20.7	12.0	*15.8			*9.13	*9.13	13.0
		*23.8	*23.8	*31.6	*31.6	37.2	*40.9	23.0	*30.0	16.1	22.0	12.0	16.6			*9.97	*9.97	
	−8 m			*45.5	*45.5	*31.9	*31.9	23.6	*23.7	16.6	*17.5					*8.81	*8.81	10.8
				*49.7	*49.7	*35.0	*35.0	23.6	*26.0	16.6	*19.3					*9.48	*9.48	

With heavy lifting system

Notes: 1.Ratings are based on SAE J1097.
2.Lifting capacity of the EX Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
3.The load point is a hook (not standard equipment) loaded on the back of the bucket.
4.*Indicates load limited by hydraulic capacity.

LIFTING CAPACITIES

ENGLISH MEASURE



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

Rating over-side or 360 degrees | Rating over-front | Unit: 1 000 lb

EX1200-5D
BE-boom 24'9"
BE-arm 11'2"
Bucket PCSA : 8.50 yd³
Shoes 28"

Load point height	Load radius 15 ft		20 ft		25 ft		30 ft		35 ft		40 ft		At max. reach		ft in
25 ft									*27.5	*27.5			*12.0	*12.0	41'7"
									*30.0	*30.0			*13.6	*13.6	
20 ft							*35.7	*35.7	*32.9	*32.9			*12.1	*12.1	42'9"
							*39.4	*39.4	35.3	36.5			*13.7	*13.7	
15 ft					*49.1	*49.1	*40.3	*40.3	33.9	*35.2			*12.5	*12.5	43'4"
					*53.7	*53.7	*44.3	*44.3	33.9	*38.9			*14.2	*14.2	
10 ft					*57.8	*57.8	43.3	*45.2	32.3	*37.9	24.2	*26.8	*13.4	*13.4	43'2"
					59.3	63.3	43.3	*49.8	32.3	*41.9	24.2	*29.3	*15.1	*15.1	
5 ft					55.8	*64.1	41.0	*49.4	30.9	*40.3	23.4	*28.8	*14.8	*14.8	42'3"
					55.8	*70.2	41.0	*54.3	30.9	43.9	23.4	*31.4	*16.5	*16.5	
0 (Ground)					53.7	*66.7	39.4	*51.7	29.8	*41.7			*16.8	*16.8	40'6"
					53.7	*73.0	39.4	55.9	29.8	42.7			*18.7	*18.7	
−5 ft					52.8	*65.8	38.5	*51.7	29.2	*41.2			*19.9	*19.9	38'0"
					52.8	*72.1	38.5	54.9	29.2	42.1			*22.0	*22.0	
−10 ft	*95.2	*95.2	*63.1	*63.1	52.9	*61.5	38.4	*48.6	29.3	*37.4					
	*103.0	*103.0	*67.1	*67.1	52.9	*67.5	38.4	*53.7	29.3	*41.5					
−15 ft	*68.7	*68.7	*65.4	*65.4	*52.9	*52.9	39.2	*40.7							
	*72.9	*72.9	*71.9	*71.9	53.8	58.4	39.2	*45.2							

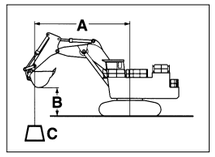
EX1200-5D
Boom 29'10"
Arm 11'2"
Bucket PCSA : 6.54 yd³
Shoes 28"

Load point height	Load radius 15 ft		20 ft		25 ft		30 ft		35 ft		40 ft		At max. reach		ft in
25 ft									*30.2	*30.2	28.4	*29.0	*19.6	*19.6	46'10"
									*33.4	*33.4	28.4	*32.2	20.7	*21.4	
20 ft							*36.0	*36.0	*31.9	*31.9	27.7	*29.7	18.9	*19.6	48'0"
							*39.7	*39.7	*35.3	*35.3	27.7	*33.1	18.9	*21.5	
15 ft							*40.4	*40.4	*34.3	*34.3	26.9	*30.8	17.9	*20.1	48'6"
							*44.5	*44.5	35.0	*38.0	26.9	*34.2	17.9	*22.0	
10 ft							43.3	*44.8	33.3	*37.0	25.9	*32.2	17.5	*20.8	48'6"
							43.3	*49.4	33.3	*41.0	25.9	35.7	17.5	*22.8	
5 ft							41.1	*48.4	31.8	*39.4	24.9	*33.6	17.7	*22.0	47'10"
							41.1	*53.3	31.8	*43.6	24.9	34.8	17.7	*24.0	
0 (Ground)							39.6	*50.6	30.7	*41.0	24.2	34.0	18.6	*23.6	40'5"
							39.6	54.9	30.7	42.6	24.2	34.0	18.6	*25.8	
−5 ft					52.5	*64.6	38.8	*51.2	30.0	*41.6	23.9	33.6	20.4	*26.0	44'4"
					52.5	*70.9	38.8	54.0	30.0	41.9	23.9	33.6	20.4	*28.3	
−10 ft					52.6	*62.1	38.7	*50.0	29.9	*40.6			23.7	*27.0	41'4"
					52.6	*68.3	38.7	53.9	29.9	41.8			23.7	*30.3	
−15 ft			*70.4	*70.4	53.3	*57.6	39.1	*46.6	30.4	*37.1			*24.8	*24.8	37'2"
			*77.3	*77.3	53.3	*63.5	39.1	*51.5	30.4	*41.2			*26.7	*26.7	
−20 ft			*60.9	*60.9	*50.1	*50.1	*39.8	*39.8							
			*67.2	*67.2	54.6	*55.3	40.3	*44.2							

With heavy lifting system

Notes: 1.Ratings are based on SAE J1097.
2.Lifting capacity of the EX Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
3.The load point is a hook (not standard equipment) loaded on the back of the bucket.
4.*Indicates load limited by hydraulic capacity.

ENGLISH MEASURE



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

Rating over-side or 360 degrees | Rating over-front | Unit: 1 000 lb

EX1200-5D
Boom 29'10"
Arm 14'9"
Bucket PCSA : 5.23 yd³
Shoes 28"

Load point height	Load radius 15 ft		20 ft		25 ft		30 ft		35 ft		40 ft		45 ft		At max. reach		ft in
30 ft											*24.9	*24.9			*11.3	*11.3	49'2"
											*27.5	*27.5			*12.7	*12.7	
25 ft											*25.4	*25.4			*11.2	*11.2	50'11"
											*28.3	*28.3			*12.5	*12.5	
20 ft									*28.5	*28.5	*26.4	*26.4	*20.5	*20.5	*11.2	*11.2	52'0"
									*31.6	*31.6	29.2	*29.5	22.1	*22.5	*12.6	*12.6	
15 ft							*36.6	*36.6	*31.4	*31.4	28.1	*28.1	21.6	*26.2	*11.5	*11.5	52'6"
							*40.4	*40.4	*34.9	*34.9	28.1	*31.3	21.6	*29.3	*12.9	*12.9	
10 ft							*41.7	*41.7	*34.6	*34.6	26.9	*30.1	20.9	*27.2	*12.0	*12.0	52'5"
							45.3	*45.9	34.6	*38.4	26.9	*33.5	20.9	29.3	*13.4	*13.4	
5 ft							42.6	*46.1	32.9	*37.6	25.7	*32.1	20.2	*28.3	*12.8	*12.8	51'9"
							42.6	*50.8	32.9	*41.6	25.7	35.6	20.2	28.6	*14.2	*14.2	
0 (Ground)					54.2	*63.9	40.6	*49.3	31.4	*40.0	24.7	*33.6	19.7	27.9	*13.9	*13.9	50'5"
					54.2	*70.1	40.6	*54.3	31.4	43.4	24.7	34.6	19.7	27.9	*15.4	*15.4	
−5 ft					53.0	*65.2	39.4	*51.0	30.4	*41.4	24.1	33.8	19.3	27.6	*15.5	*15.5	48'6"
					53.0	*71.6	39.4	54.6	30.4	42.4	24.1	33.8	19.3	27.6	*17.1	*17.1	
−10 ft			*66.0	*66.0	52.6	*64.4	38.8	*51.1	29.9	*41.5	23.8	33.5			*17.7	*17.7	45'9"
			*71.0	*71.0	52.6	*70.7	38.8	54.0	29.9	41.9	23.8	33.5			*19.4	*19.4	
−15 ft	*62.0	*62.0	*77.6	*77.6	52.8	*61.5	38.8	*49.3	29.9	*39.9	24.0	*31.9			*21.0	*21.0	42'1"
	*66.8	*66.8	78.1	*85.0	52.8	*67.6	38.8	54.0	29.9	41.9	24.0	33.8			*22.9	*22.9	
−20 ft	*87.6	*87.6	*69.9	*69.9	53.7	*56.1	39.4	*45.1	30.6	*35.6							
	*96.1	*96.1	*76.8	*76.8	53.7	*61.8	39.4	*49.8	30.6	39.7							
−25 ft	*71.7	*71.7	*58.2	*58.2	*46.9	*46.9	*36.6	*36.6									
	*79.1	*79.1	*64.3	*64.3	*51.9	*51.9	*40.7	*40.7									

EX1200-5D
Boom 29'10"
Arm 19'0"
Bucket PCSA : 4.45 yd³
Shoes 28"

Load point height	Load radius 15 ft		20 ft		25 ft		30 ft		35 ft		40 ft		45 ft		At max. reach		ft in
30 ft													*18.9	*18.9	*9.81	*9.81	51'11"
													*20.7	*20.7	*11.0	*11.0	
25 ft													*23.3	*23.3	*9.63	*9.63	53'7"
													*25.4	*25.4	*10.8	*10.8	
20 ft											*25.7	*25.7	*24.7	*24.7	*9.65	*9.65	54'8"
											*28.4	*28.4	25.4	*27.5	*10.9	*10.9	
15 ft									*30.5	*30.5	*27.7	*27.7	24.7	*26.0	*9.85	*9.85	55'2"
									*33.6	*33.6	*30.7	*30.7	24.7	*28.8	*11.1	*11.1	
10 ft					*49.5	*49.5	*39.9	*39.9	*34.0	*34.0	30.0	*30.1	23.8	*27.5	*10.2	*10.2	55'2"
					*54.0	*54.0	*43.8	*43.8	*37.5	*37.5	30.0	*33.3	23.8	*30.5	*11.5	*11.5	
5 ft					*57.3	*57.3	*45.1	*45.1	36.2	*37.5	28.6	*32.5	22.9	*29.0	*10.8	*10.8	54'7"
					61.8	*62.6	46.5	*49.4	36.2	*41.3	28.6	*35.9	22.9	31.2	*12.1	*12.1	
0 (Ground)					58.4	*63.1	44.1	*49.3	34.5	*40.5	27.5	*34.6	22.1	*30.3	*11.7	*11.7	53'6"
					58.4	*69.0	44.1	*54.1	34.5	*44.6	27.5	37.3	22.1	30.4	*13.0	*13.0	
−5 ft					56.1	*66.5	42.3	*52.2	33.1	*42.7	26.5	*36.1	21.5	29.8	*12.9	*12.9	51'10"
					56.1	*72.7	42.3	*57.2	33.1	45.1	26.5	36.3	21.5	29.8	*14.3	*14.3	
−10 ft			*63.9	*63.9	55.0	*67.6	41.2	*53.6	32.3	*43.8	25.9	35.7	21.2	29.4	*14.5	*14.5	49'7"
			*68.6	*68.6	55.0	*74.0	41.2	56.5	32.3	44.2	25.9	35.7	21.2	29.4	*16.0	*16.0	
−15 ft	*52.3	*52.3	79.2	*85.7	54.6	*66.7	40.8	*53.3	31.9	*43.6	25.7	35.4	21.2	*26.6	*16.8	*16.8	46'6"
	*56.4	*56.4	79.2	*91.8	54.6	*72.9	40.8	56.0	31.9	43.8	25.7	35.4	21.2	*28.9	*18.5	*18.5	
−20 ft	*75.2	*75.2	79.9	*80.7	54.9	*63.4	40.9	*51.0	32.0	*41.6	25.9	*33.5			*20.4	*20.4	42'5"
	*80.7	*80.7	79.9	*88.2	54.9	*69.5	40.9	*56.1	32.0	43.9	25.9	35.7			*22.3	*22.3	
−25 ft	*93.7	*93.7	*72.2	*72.2	55.9	*57.3	41.7	*46.0	32.8	*36.4					*21.1	*21.1	37'0"
	*102.5	*102.5	*79.0	*79.0	55.9	*62.9	41.7	*50.6	32.8	*40.3					*22.7	*22.7	

With heavy lifting system

Notes: 1.Ratings are based on SAE J1097.
2.Lifting capacity of the EX Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
3.The load point is a hook (not standard equipment) loaded on the back of the bucket.
4.*Indicates load limited by hydraulic capacity.

HITACHI

EX1200

■ **Engine Gross Power** : 567 kW (760 HP)

■ **Operating Weight**

Backhoe : 108 000 (238 100 lb)

Loading Shovel : 111 000 kg (244 500 lb)

■ **Backhoe Bucket**

PCSA Heaped :

3.0—6.5 m^3 (3.92—8.50 yd^3)

CECE Heaped :

2.7—5.7 m^3 (3.53—7.46 yd^3)

■ **Loading Shovel Bucket**

PCSA Heaped :

5.9—6.5 m^3 (7.72—8.50 yd^3)

SOLUTION GIANT

Giant-Sized Productivity Based on Hitachi's Theory of Evolution.

Each Hitachi generation listens to the needs of the work site and gives birth to an even-better new generation.

Bucket Passes to Dump Trucks

	HITACHI EH600	HITACHI EH750
Maximum Payload	36.5 US ton	42.5 US ton
Body Capacity (SAE 2:1 Heaped)	21.0m³ (27.5yd³)	27.7m³ (36.3yd³)
Backhoe (BE) 6.5 m³ (8.5 yd³)	3 or 4	4 or 5
Loading Shovel 6.5 m³ (8.5 yd³)	3 or 4	4 or 5

More Powerful Engine

The source of the high production.

The EX1200 is equipped with a powerful large-displacement engine. An intercooler is used to provide optimal fuel efficiency, helping to keep total running costs down.

412 kW (560 PS) (EX1100-3) ▶ **567 kW (760 HP)**

Larger Bucket

Provides high work capacity.

The large capacity bucket offers an increased excavating power-to-bucket-width ratio. The result is increased work efficiency for higher production.

- **Backhoe bucket:** 3.0 m³ (3.92 yd³) — 5.0 m³ (6.54 yd³)
- **BE bucket:** 5.6 m³ (7.32 yd³) — 6.5 m³ (8.50 yd³)

More Powerful Excavation

Increased power for excavating.

The powerful engine is combined with a highly efficient hydraulic system to offer ample excavating power for even the toughest sites.

Maximum Excavating Force

- **9.1m (29' 10") boom / 3.4m (11' 2") arm**
  - with general purpose bucket: 457 kN (46 600 kgf, 102 700 lbf)
  - Rock bucket: 475 kN (48 400 kgf, 106 700 lbf)
- **7.55m (24' 9") BE-boom / 3.4m (11' 2") BE-arm**
  - with general purpose bucket: 550 kN (56 100 kgf, 123 700 lbf)
  - Rock bucket: 550 kN (56 100 kgf, 123 700 lbf)

Note: Photos in this catalog may include optional equipment. They may also include custom-made options to meet specific user needs.

SOLUTION GIANT

Higher Production.

Boost productivity with efficient power matching and intuitive controls.

Combined Front Operations

Fast and efficient operation.

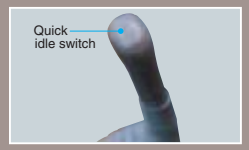
The popular Optimum Hydraulic System (OHS) is used along with the newly developed arm regenerative and boom regenerative mechanism for smooth and efficient front operations.

E/P Control

Provides a balance between economical operation and power.

Speed sensing control is used to efficiently control engine output. This system incorporates a microcomputer to regulate engine and hydraulic pump output to the level of work being performed.

- **S/P mode increases productivity**
  Choose the S/P mode to boost power during strenuous operation.
- **E mode reduces fuel consumption**
  This mode lowers fuel consumption during light-duty operations.



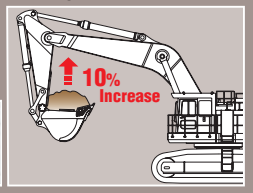
Auto Idle and Quick Idle

Help to reduce fuel consumption even further.

Heavy Lifting Function

Increases boom lift performance by 10%.

The touch of a button gives the added power for breaking up rock or working under harsh conditions.



SOLUTION GIANT

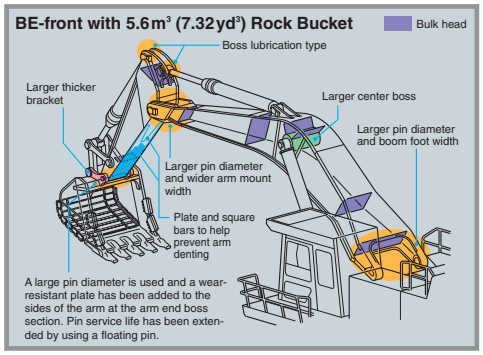
More Than Durable— Just Plain Tough.

Built-in toughness means the Hitachi will continue to get giant-sized jobs done fast.

Boom and Arm

Designed for durability.

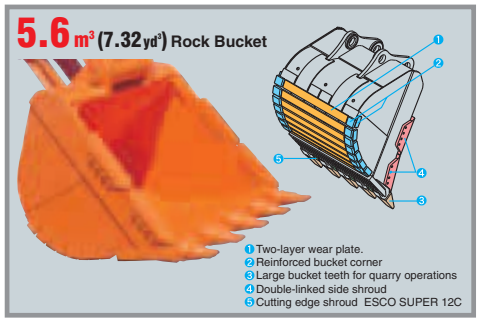
A box-section structure has been adopted on the front attachment for its large cross-sectional area.
In addition, bulkheads arranged inside the front attachment increase rigidity to resist torsion, further strengthening the structure.
The enhanced durability will be especially welcome for extended operation at tough work sites such as mines.



Rock Bucket (5.0m³(6.54yd³)/5.6m³(7.32yd³) rock bucket)

Designed for harsh work conditions.

Reinforced bucket designed specifically for withstanding the impact encountered when handling crushed rock.



Reinforced Pin Section

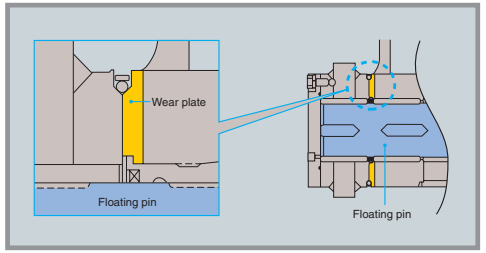
To provide a long service life to the arm end.

- Replaceable wear-resistant plate at the arm tip boss.

[For machines with 3.4 m (11' 2") BE-arm, 3.4 m (11' 2") and 4.5 m (14' 9") arm]

- Arm tip pin converted from fixed type to floating pin, extending service life.

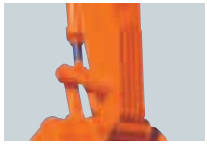
[For machines with 3.4 m (11' 2") BE-arm and 3.4 m (11' 2") arm only]



Under-plate Protection

A special plate and square bars are used to help prevent arm denting.

The damage prevention plate, fitted with reinforcing square bars, is installed as standard on the arm. This protects the arm bottom from damage from loaded rocks.



[For machines with 3.4 m (11' 2") BE-arm and 3.4 m (11' 2") arm only]

Large Displacement Engine with Low Operating RPM

Provides a reliable power source.

The large-displacement engine with power to spare will provide a long service life.

Independently Mounted Oil Cooler

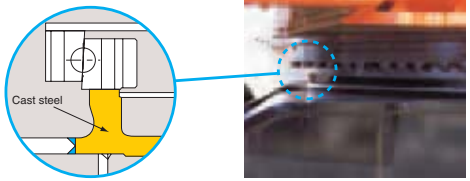
Reduced heat helps increase hydraulic component durability.

The oil cooler and the radiator have been mounted in separate locations to reduce heat build up and increase cooling efficiency. Lower hydraulic oil temperature helps to increase the durability of hydraulic components.

Track Center Frame

Built for high reliability.

The mounting section for the track center frame swing gear has an integral cast steel design to reduce the concentration of stress forces, thereby boosting reliability.



Giant Undercarriage

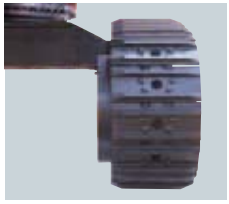
Forming the base for powerful operation.

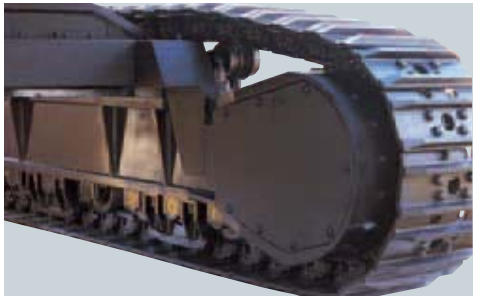
The large undercarriage, 4 610 mm (15' 1") wide and 6 410 mm (21' 0") long, provides stability.

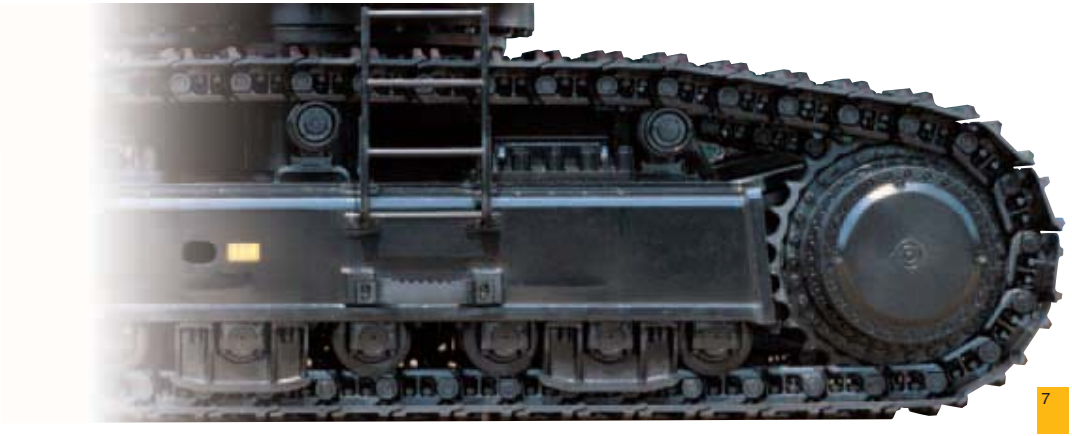
Rugged Travel Device

Damage-resistant travel device keeps the Giant moving.

The shape of the frame has been changed, thicker steel plates have been used and compact, damage-resistant travel devices with reinforced reduction units have been provided to boost durability and reduce downtime.







SOLUTION GIANT

Brimming with Safety features.

Several important features are implemented in consideration to safety.

Rugged Pressurized Cab with Integrated Headguard

Offers solid protection to the operator.

The sturdy cab, with the top guard conforming to OPG* Level Ⅱ (ISO), helps protect the operator from falling objects.

** Operator Protective Guard*

Wide Sidewalks and Large Handrails

Wide sidewalks with handrails are provided at key locations for easy access to the cab and simplified servicing. Handrails conform to EN (European Norm), a world-class safety standard.

Adjustable Headlights

Provides bright illumination where it is needed.

The headlights above the cab can be adjusted downward to illuminate the work area.

Step Light

Equipped with shut-off timer.

The step light has a one minute shut-off timer. This allows the operator to use the ladder before the step light is turned off.

■ Other Devices for Safety

Pump bulkhead

Retractable seat belt

Pilot-control shut-off lever

Right window guard

Emergency evacuation hammer

SOLUTION GIANT

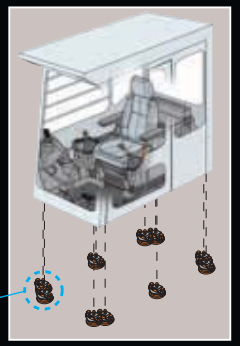
Giant-Sized Comfort.

The entire machine is designed to provide comfort to the operator and to make maintenance easier for the mechanic.

Large Comfortable Cab

Provides comfort to reduce operator fatigue.

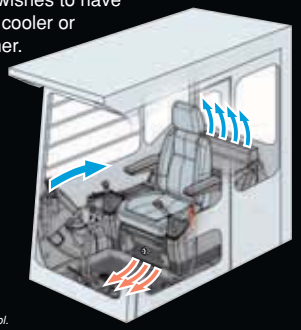
The cab is 10% larger than the previous model to provide an even higher level of comfort. It has been designed to offer clear visibility of the work area. Fluid-filled elastic mounts help reduce fatigue-causing vibration.



Bi-Level Automatic Air Conditioner

Automatically keeps the operator's cab at a comfortable temperature.

All the operator has to do is set the temperature. The temperature, fan speed and discharge vents will be automatically controlled. Bi-level control is also available if the operator wishes to have one area of the cab cooler or warmer than the other.



** Illustration shows a sample of the air flow during bi-level control.*

One-Glance Instrument Panel

Positioned within natural line of sight.

Instrument panel is positioned so that all key operating conditions can be monitored with just a glance.

Well-Positioned Levers and Switches

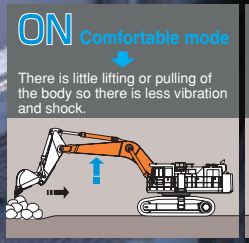
Levers and switches are near the operator to reduce the need to reach for them.

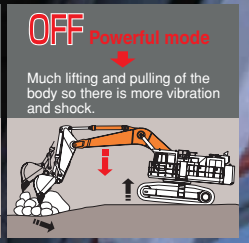
The levers and switches have been strategically located to reduce the amount of operator movement required to operate them. Frequently used switches have been centralized at a location next to the operator.

Boom Mode Selector

Helps to reduce shaking and jerking of body during scraping operations.

The amount the body can be lifted or pulled by the front of machine can be selected. This helps to provide for more comfortable operation and contributes to longer component service life.





SOLUTION GIANT

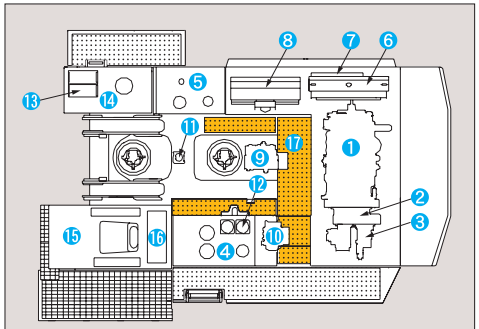
Easy Maintenance.

The entire machine is designed to provide comfort to the operator and to make maintenance easier for the mechanic.

Easy Inspection and Maintenance

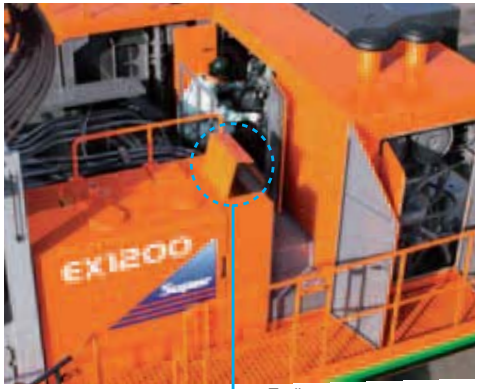
Wide access helps speed essential inspection time and reduce maintenance costs.

Plenty of room is provided for performing inspections. Key components have been centrally positioned and walkways have been provided to make inspections and maintenance as easy as possible.



1. Diesel Engine
2. Pump Drive Unit
3. Hydraulic Pump x 6
4. Hydraulic Oil Tank
5. Fuel Tank
6. Radiator
7. Air Cooler
8. Oil Cooler
9. Control Valve
10. Swing Control Valve
11. Center Joint
12. Hydraulic Filter
13. Battery
14. Lubricator
15. Cab
16. Air Conditioner
17. Center Walkway

Center Walkway



Toolbox space

Radiator and Oil Cooler

Designed for easy cleaning.

Dust Ejector Automatically

Airborne dust and particles are separated/ejected automatically, extending element cleaning and replacing interval.

Auto-Grease Lubricator

Reduces the time and effort needed for lubrication.

An auto-grease lubricator is standard equipment. It dramatically reduces the work required for lubricating. (Does not lubricate the bucket area or the swing gear.)

Electric Lubricator

Provides easy lubrication of key areas.

The standard electric lubricator speeds the lubrication of the bucket area and the swing gear.

Wide Inspection Doors

Easy access to engine and pump compartments.

The inspection doors open wide to provide easy access to the engine and pump compartments.

Easy-to-Change External air intake filter.

This large filter offers excellent performance and a long service life.

Electric Wiring Board Speeds maintenance.

Located on the top of the rear section for fast and easy inspections.

*Photo shows opened electric wiring board.

ENVIRONMENTAL FRIENDLY

Cleaner Operating Engine

Steps have been taken to reduce harmful exhaust gas emissions .

This engine conforms to U.S EPA* Tier1 emission regulations.

** Environmental Protection Agency of the United States of America*

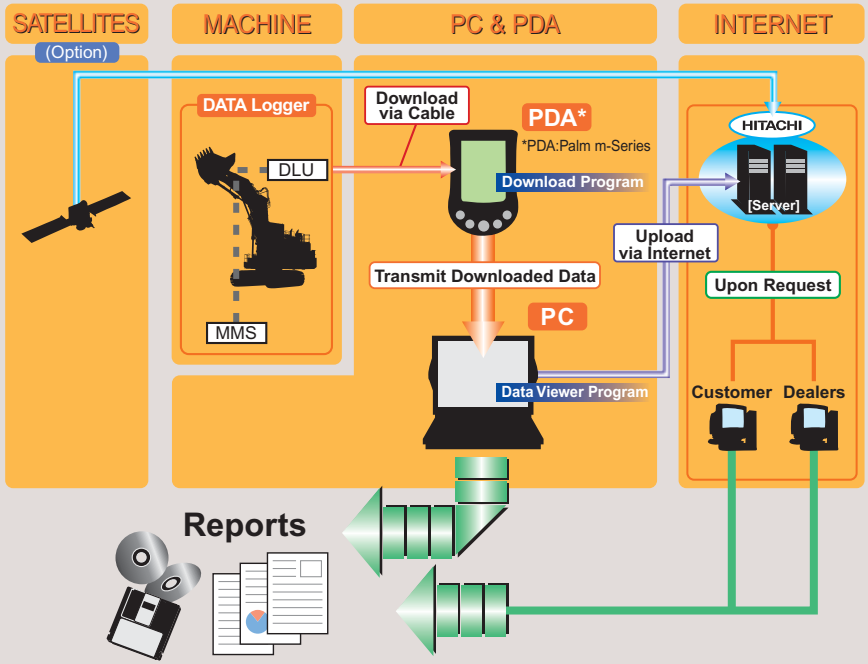
Plastic Parts Marked for Recycling

Striving for environmental friendliness.

The plastic parts indicate the type of plastic used to help speed recycling.

MIC Mining

The MIC Mining comprises the DLU (Data-logging unit) on the machine DLU continuously records performance of the engine and the hydraulic system. The record can be download by PC and PDA.



ENGINE

Model ..... Cummins QSK23
Type ..... Water-cooled, 4-cycle, 6-cylinder in line, turbo-charged direct injection chamber-type diesel engine.
Rated power
DIN 6271, net ..... 538 kW (731 PS) at 1 650 min^{-1} (rpm)
SAE J1995, gross ..... 567 kW (760 HP) at 1 650 min^{-1} (rpm)
Piston displacement ..... 23.15 L (1 412 in^3)
Fuel tank capacity ..... 1 400 L (370 US gal, 308 Imp gal)

HYDRAULIC SYSTEM

Main pumps ..... 3 variable-displacement, swash plate type axial piston pumps
Main. oil flow ..... 3 × 495 L/min (3 × 130.8 US gpm, 3 × 108.9 Imp gpm)
Pressure setting ..... 31.4 MPa (320 kgf/cm^2, 4 550 psi)

UPPERSTRUCTURE

Swing speed ..... 5.8 min^{-1} (rpm)

UNDERCARRIAGE

Travel speed ..... High: 0 to 3.5 km/h (2.2 mph)
Low: 0 to 2.4 km/h (1.5 mph)
Maximum traction force ..... 618 kN (6 300 kgf, 138 900 lbf)
Gradability ..... 35° (70%) continuous

WEIGHTS AND GROUND PRESSURE

Backhoe
EX1200-5D: Equipped with 9.1 m (29' 10") boom, 3.4 m (11' 2") arm, and 5.0 m^3 (6.54 yd^3; PCSA heaped) bucket

Shoe type	Shoe width	Operating weight	Ground pressure
Double grousers	710 mm (28")	108 000 kg (238 100 lb)	136 kPa (1.39 kgf/cm^2, 19.7 psi)
	900 mm (35")	110 000 kg (242 500 lb)	109 kPa (1.11 kgf/cm^2, 15.8 psi)

EX1200-5D BE-front : Equipped with 7.55 m (24' 9") BE-boom, 3.4 m (11' 2") BE-arm, and 6.5 m^3 (8.50 yd^3; PCSA heaped) bucket

Shoe type	Shoe width	Operating weight	Ground pressure
Double grousers	710 mm (28")	109 000 kg (240 300 lb)	137 kPa (1.40 kgf/cm^2, 19.9 psi)
	900 mm (35")	111 000 kg (244 700 lb)	109 kPa (1.12 kgf/cm^2, 16.0 psi)

Loading Shovel
Equipped with 6.5 m^3 (8.50 yd^3; PCSA heaped) bottom dump bucket

Shoe type	Shoe width	Operating weight	Ground pressure
Double grousers	710 mm (28")	111 000 kg (244 700 lb)	139 kPa (1.40 kgf/cm^2, 20.2 psi)

BACKHOE ATTACHMENTS

Buckets

Capacity		Width		No. of teeth	Weight	Type	Materials density kg/m^3 (lb/yd^3)			
							BE-front	9.1m (29' 10") boom		
PCSA heaped (1:1)	CECE heaped (2:1)	Without shroud	With shroud				7.55 m (24' 9") BE-boom 3.4 m (11' 2") BE-arm	3.4 m (11' 2") arm	4.5 m (14' 9") arm	5.8 m (19' 0") arm
3.0 m^3(3.92 yd^3)	2.7 m^3	1 700 mm (5'7")	1 800 mm (5'11")	5	3 100 kg (6 830 lb)	●				1 800 (3 030)
3.4 m^3(4.45 yd^3)	3.0 m^3	1 840 mm (6'0")	1 940 mm (6'4")	5	3 250 kg (7 170 lb)	◎				1 800 (3 030)
3.5 m^3(4.58 yd^3)	3.2 m^3	1 470 mm (4'10")	1 570 mm (5'2")	4	4 300 kg (9 480 lb)	●			1 800 (3 030)	
4.0 m^3(5.23 yd^3)	3.6 m^3	1 620 mm (5'4")	1 720 mm (5'8")	5	4 160 kg (9 170 lb)	◎			1 800 (3 030)	
4.5 m^3(5.89 yd^3)	4.0 m^3	1 710 mm (5'7")	1 810 mm (5'11")	5	4 650 kg (10 250 lb)	●		1 800 (3 030)		
5.0 m^3(6.54 yd^3)	4.4 m^3	1 920 mm (6'11")	2 100 mm (6'11")	5	4 490 kg (9 900 lb)	◎		1 800 (3 030)		
5.0 m^3(6.54 yd^3)	4.4 m^3	1 860 mm (6'1")	1 960 mm (6'5")	5	5 460 kg (12 040 lb)	●		1 800 (3 030)		
5.6 m^3(7.32 yd^3)	4.9 m^3	2 140 mm (7'0")	2 240 mm (7'4")	5	6 510 kg (14 350 lb)	●	1 800 (3 030)			
6.5 m^3(8.50 yd^3)	5.7 m^3	2 210 mm (7'3")	2 310 mm (7'7")	6	6 350 kg (14 000 lb)	◎	1 800 (3 030)			

● : Rock bucket ◎ : General purpose bucket

LOADING SHOVEL ATTACHMENTS

Bucket (PCSA heaped 2:1)

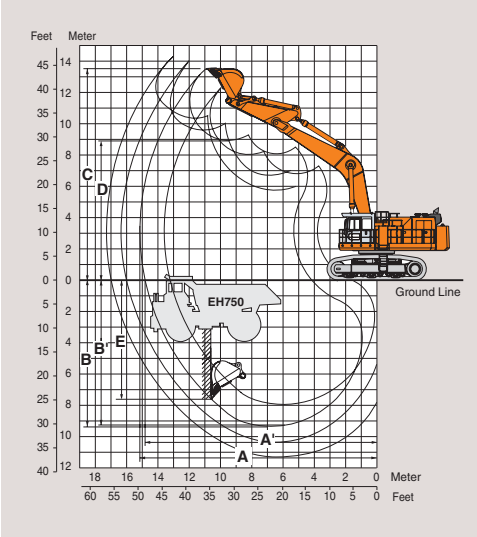
Capacity	Width	No.of teeth	Weight	Type	Materials density
5.9 m^3 (7.72 yd^3)	2 510 mm (8' 3")	6	9 780 kg (21 600 lb)	●	1 800 kg/m^3 (3 030 lb/yd^3)
6.5 m^3 (8.50 yd^3)	2 700 mm (8' 10")	6	9 200 kg (20 300 lb)	◎	1 800 kg/m^3 (3 030 lb/yd^3)

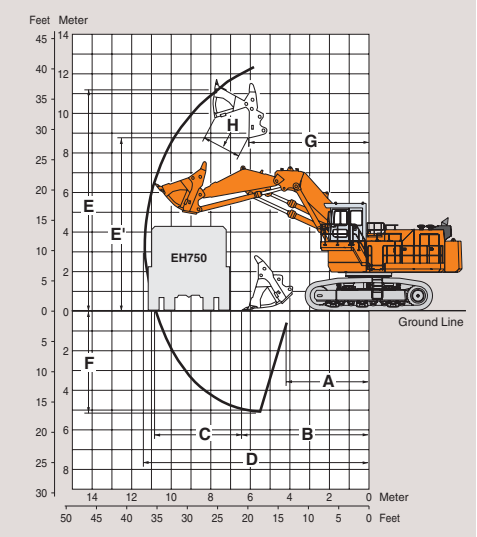
● : Bottom dump type rock bucket
◎ : Bottom dump type general purpose bucket

OPTIONAL EQUIPMENT

- Travel motion alarm device
- High cab kit (for Backhoe)
- Full track guard

WORKING RANGES

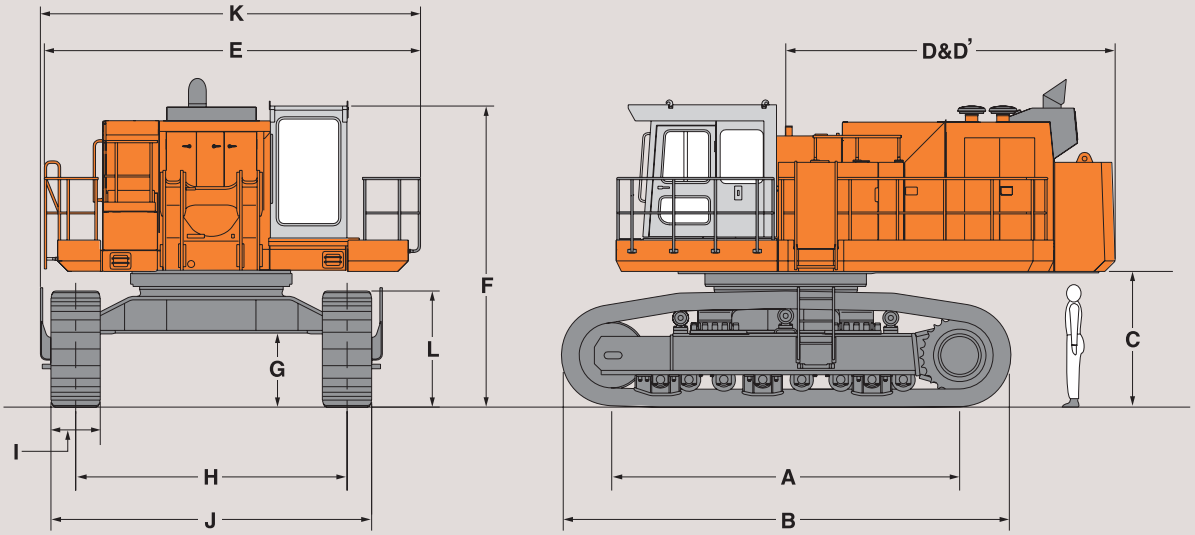




Boom length		7.55 m (24' 9") BE-boom	9.1 m (29' 10")		
Arm length		3.4 m (11' 2") BE-arm	3.4 m (11' 2")	4.5 m (14' 9")	5.8 m (19' 0")
A Max. digging reach		13 760 mm (45' 2")	15 340 mm (50' 4")	16 380 mm (53' 9")	17 360 mm (56' 11")
A' Max. digging reach (on ground)		13 380 mm (43' 11")	15 000 mm (49' 3")	16 070 mm (52' 9")	17 070 mm (56' 0")
B Max. digging depth		7 940 mm (26' 1")	9 340 mm (30' 8")	10 420 mm (34' 2")	11 420 mm (37' 6")
B' Max. digging depth (8'level)		7 820 mm (25' 8")	9 210 mm (30' 3")	10 310 mm (33' 10")	11 330 mm (37' 2")
C Max. cutting height		12 300 mm (40' 4")	13 490 mm (44' 3")	14 020 mm (46' 0")	14 400 mm (47' 3")
D Max. dumping height		8 020 mm (26' 4")	8 920 mm (29' 3")	9 430 mm (30' 11")	10 360 mm (34' 0")
E Max. vertical wall depth		5 080 mm (16' 8")	7 620 mm (25' 0")	8 880 mm (29' 2")	10 360 mm (34' 0")
Bucket digging force kN (kgf,lbf)	ISO	550 (56 100 , 123 700)	457 (46 600, 102 700)	457 (46 600, 103 000)	326 (33 200, 73 200)
	SAE:PCSA	500 (51 000 , 112 400)	418 (42 600, 93 900)	418 (42 600, 93 900)	293 (29 900, 65 900)
Arm crowd force kN (kgf,lbf)	ISO	412 (42 000 , 92 600)	411 (41 900, 92 400)	330 (33 700, 74 300)	287 (29 300, 64 600)
	SAE:PCSA	402 (41 000 , 90 400)	402 (41 000, 90 400)	325 (33 100, 73 000)	284 (29 000, 63 900)

	Bottom dump type
A Min. digging distance	4 460 mm (14' 8")
B Min. level crowding distance	6 520 mm (21' 5")
C Level crowding distance	4 340 mm (14' 3")
D Max. digging reach	11 440 mm (37' 6")
E Max. cutting height	12 350 mm (40' 6")
E' Max. dumping height	8 740 mm (28' 8")
F Max. digging depth	5 240 mm (17' 2")
G Working radius at max. dumping height	6 090 mm (20' 0")
H Max. bucket opening width	1 880 mm (6' 2")
Crowding force	583 kN (59 400 kgf, 131 000 lbf)
Breakout force	589 kN (60 100 kgf, 132 500 lbf)

DIMENSIONS



A	Distance between tumblers	5 000 mm (16' 5")
B	Undercarriage length	6 410 mm (21' 0")
C	Counterweight clearance	1 790 mm (5' 10")
D	Rear-end swing radius	4 850 mm (15' 11")
D'	Rear-end length	4 740 mm (15' 7")
E	Overall width of upper structure	5 380 mm (17' 8")
F	Overall height of cab : Backhoe	4 320 mm (14' 2")
	: Loading shovel	5 410 mm (17' 9")
G	Min. ground clearance	990 mm (3' 3")
H	Track gauge	3 900 mm (12' 10")
I	Track shoe width	710 mm (28") /900 mm (35")
J	Undercarriage width	4 610 mm (15' 1")/4 800 mm (15' 9")
K	Overall width	5 430 mm (17' 10")
L	Track height	1 570 mm (5' 2")

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 ues, read and understand Operator's Manual for proper operation.

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