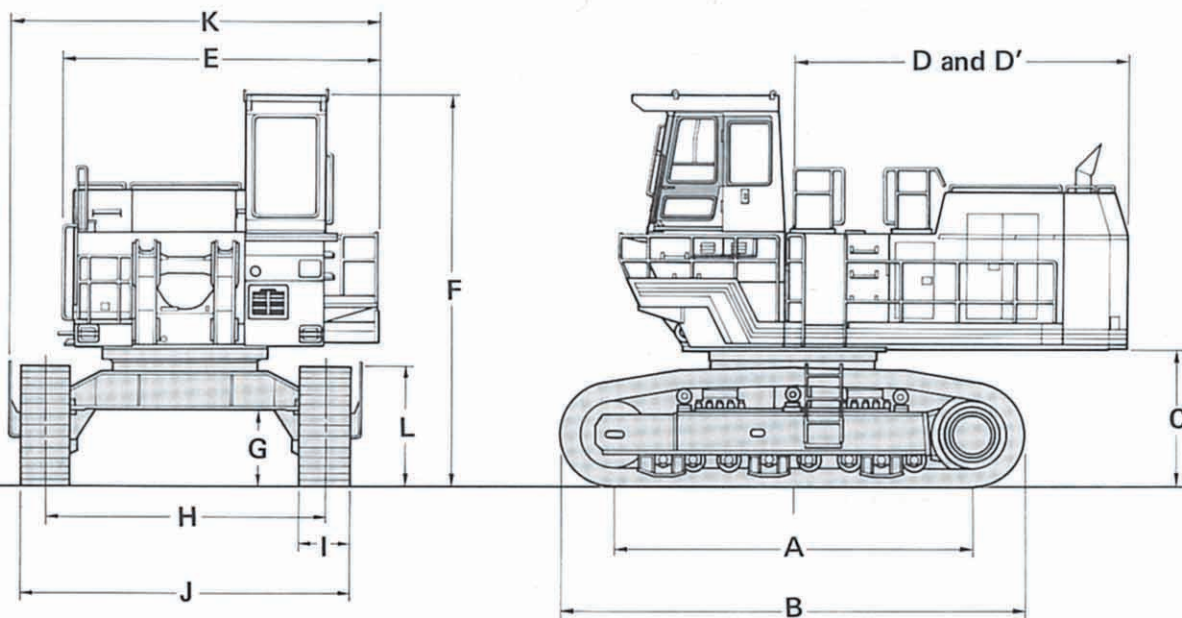




- # Specifications



A	Distance between tumblers	5 000 mm (16'5'')	
B	Undercarriage length	6 410 mm (21'0'')	
C	Counterweight clearance	1 850 mm (6'1'')	
D	Rear-end swing radius	4 740 mm (15'7'')	
D'	Rear-end length	4 640 mm (15'3'')	
E	Overall width of superstructure	Loading shovel	4 450 mm (14'7'')
		Backhoe	4 640 mm (15'3'')
F	Overall height of cab (with headguard)	Loading shovel	5 410 mm (17'9'')
		Backhoe	4 510 mm (14'10'')
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	Loading shovel	5 130 mm (16'10'')
		Backhoe	5 320 mm (17'5'')
L	Track height	1 570 mm (5'2'')	

TECHNICAL DATA

ENGINE

Model	Cummins KTTA19-C
Type	Water-cooled, 4-cyle, 6 cylinder in line, turbo-charged, direct injection chamber-type diesel engine.
Rated flywheel horse power (DIN 6271, net)	434 kW (590 PS) at 1 800 min ⁻¹ (1 800 rpm)
Rated flywheel horse power (SAE J1349, net)	433 kW (580 HP) at 1 800 min ⁻¹ (1 800 rpm)
Maximum flywheel horsepower (SAE J1349, gross)	522 kW (700 HP) at 2 100 min ⁻¹ (2 100 rpm)
Maximum torque	470 kW (630 HP) at 1 800 min ⁻¹ (1 800 rpm)
Piston displacement	2 695 N·m (275 kgf·m, 1 990 lbf·ft) at 1 400 min ⁻¹ (1 400 rpm)
Bore and stroke	18.9 l (1 150 cu in)
Starting system	159 mm x 159 mm (6.3" x 6.3")
Batteries	24V electric motor
	2 x 12V, 2 x 170 AH

HYDRAULIC SYSTEM

Hitachi's ETS (Electronic Total control System) can achieve maximum job efficiency and reducing fuel consumption/noise.

- E-P Control (Computer-aided Engine-Pump Control system) Main pumps regulated by electronic engine-speed sensing control system. Optimum operation mode selectable among 4 power modes depending on type of job.
- OHS (Optimum Hydraulic System) assures fully independent and combined operations.
- FPS (Fuel-saving Pump System)
- RMS (Relief-oil Minimizing 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 Inert Gas) welding pipings.

Main pumps	3 variable displacement, swash plate type axial piston pumps
Max. oil flow	3 x 490 l/min. (3 x 129.5 US gpm, 3 x 107.8 Imp gpm)
Pilot pump	Gear pump
Max. oil flow	58.0 l/min. (15.3 US gpm, 12.8 Imp gpm)

Relief Valve Settings

Boom/arm/bucket circuit	29.4 MPa (300 kgf/cm ² , 4 270 psi)
Swing circuit	29.4 MPa (300 kgf/cm ² , 4 270 psi)
Travel circuit	31.4 MPa (320 kgf/cm ² , 4 550 psi)
Pilot circuit	4.5 Mpa (46 kgf/cm ² , 650 psi)

Hydraulic Cylinders

High-strength piston rods and tubes are used. Cylinder cushion mechanisms are provided for all cylinders (except level cylinder) to absorb shock when pistons reach their stroke ends.

Dimensions

Loading shovel

Unit: mm (ft in)

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

Backhoe

Unit: mm (ft in)

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

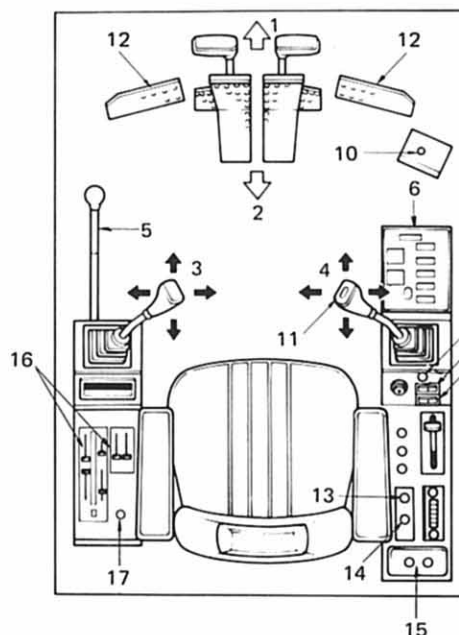
Hydraulic Filters

All hydraulic circuits have high-quality hydraulic filters for protection against oil contamination and longer life of hydraulic components. A suction filter is built in suction line, and 10 µm full-flow filters in return circuit and swing/travel motor drain lines.



CONTROLS

Pilot controls (for all functions), Hitachi original shockless regulator, and quick warm-up system are built in the pilot circuit for easy, fatigue-free operation.



1. Travel forward
2. Travel reverse
3. Swing/Arm control lever
4. Boom/Bucket control lever
5. Control neutralization lever
6. Monitoring system
7. Mode selection switch
8. High/low travel speed selection switch
9. Auto idling switch
10. Quick-auto-idling switch
11. Heavy lifting switch for Backhoe (Option)
12. Foot rests for Backhoe Bucket open/close pedals for Loader
13. Level luffing switch (Option: Loading shovel, changing switch for circular arc and horizontal retracting)
14. Travel motion alarm switch (Option)
15. Auto-lubrication switch (Option)
16. Air conditioner switch
17. Electric fan switch



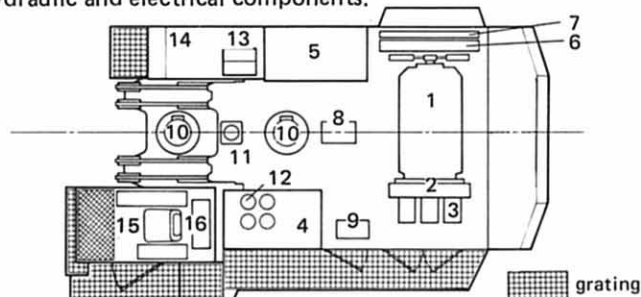
UPPERSTRUCTURE

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. Walkways provide easy access to engine, hydraulic and electrical components.



- | | |
|-----------------------|---------------------------|
| 1. Engine | 9. Swing control valve |
| 2. Pump drive unit | 10. Swing device x 2 |
| 3. Hydraulic pump x 3 | 11. Center joint |
| 4. Hydraulic tank | 12. Filters |
| 5. Fuel tank | 13. Batteries |
| 6. Engine radiator | 14. Tool box |
| 7. Oil cooler | 15. Operator cab |
| 8. Main control valve | 16. 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 (5.8 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 3.15 m³ (4.1 cu yd) cab with tinted glass windows features all-round visibility. Spring-suspension-type, fully-adjustable reclining seat. Instrument and control panel is in easy range of the operator. Rubber-mounting and sound-proofing structure to reduce noise level and vibration.

Noise level 74dB (A) in the cab; on max. engine speed under no-load condition



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. Durable 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

Number 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 speed Low: 0 to 2.5 km/h (1.6 mph)
High: 0 to 3.6 km/h (2.2 mph)

Maximum traction force 617.8 kN (63 000 kgf, 138 900 lbf)

Gradeability 35° (70%) max.

WEIGHTS AND GROUND PRESSURE

Loading Shovel

Equipped with 6.3 m³ (8.2 cu yd; PCSA heaped) bottom dump bucket

Shoe type	Shoe width	Operating weight	Ground pressure
Double grousers	710 mm (28")	105 000 kg (231 500 lb)	132 kPa (1.35 kgf/cm ² , 19.2 psi)

Backhoe

EX1100: Equipped with 9.1 m (29'10") boom, 3.4 m (11'2") arm and 4.6 m³ (6.0 cu yd; PCSA heaped) bucket

Shoe type	Shoe width	Operating weight	Ground pressure
Double grousers	710 mm (28")	103 000 kg (227 100 lb)	129 kPa (1.32 kgf/cm ² , 18.8 psi)
	900 mm (35")	104 400 kg (230 200 lb)	103 kPa (1.05 kgf/cm ² , 14.9 psi)

EX1100BE: Equipped with 7.55 m (24'9") BE-boom, 3.4 m (11'2") BE-arm and 6.0 m³ (7.8 cu yd; PCSA heaped) bucket

Shoe type	Shoe width	Operating weight	Ground pressure
Double grousers	710 mm (28")	104 000 kg (229 300 lb)	130 kPa (1.33 kgf/cm ² , 18.9 psi)
	900 mm (35")	105 400 kg (232 400 lb)	104 kPa (1.06 kgf/cm ² , 15.1 psi)



SERVICE REFILL CAPACITIES

	liters	US gal	Imp gal
Fuel tank	1 200	317.0	264.0
Engine coolant	113	29.9	24.9
Engine oil	70	18.5	15.4
Pump drive	13	3.4	2.9
Swing device (each side)	25	6.6	5.5
Travel final device (each side)	43	11.4	9.5
Hydraulic tank	610	161.2	134.2
Hydraulic system	1 350	356.7	297.0



BACKHOE ATTACHMENTS

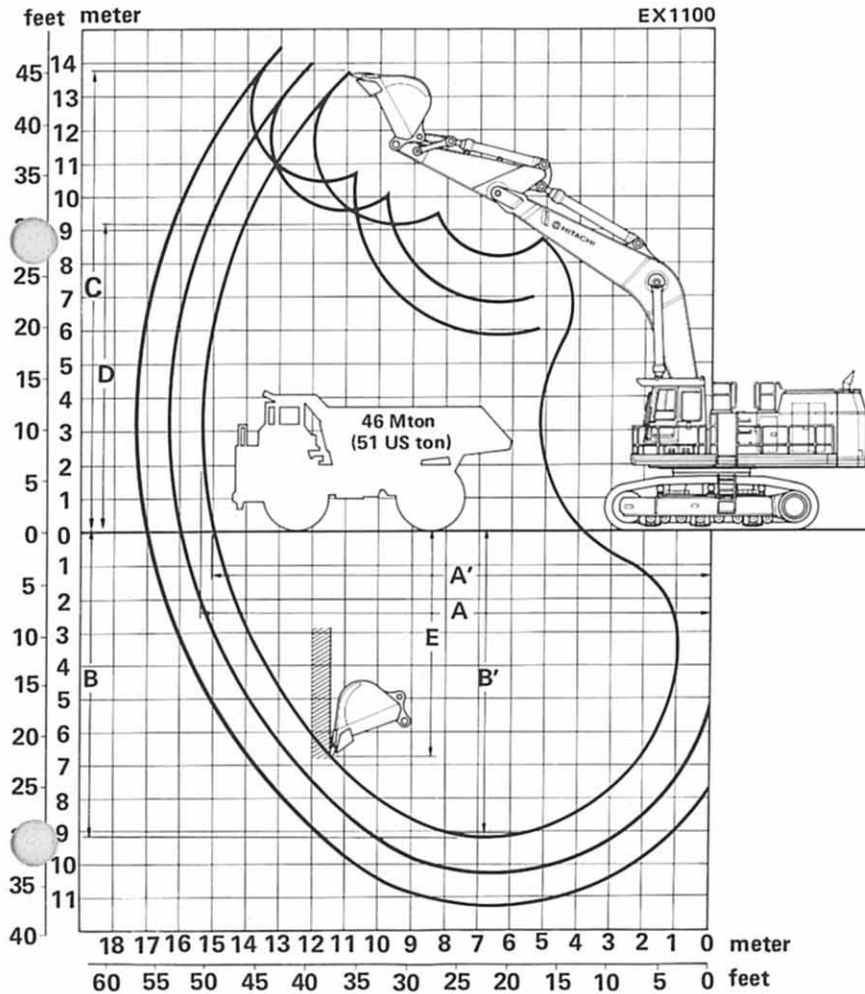
Boom and arm are all-welded, low-stress, full-box section design.

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.



WORKING RANGES



Unit: mm (ft in)

		EX1100		
Boom length		9.1 m (29'10")		
Arm length		3.4 m (11'2")	4.5 m (14'9")	5.8 m (19'0")
A	Max. digging reach	15 350 (50'4")	16 380 (53'9")	17 360 (56'11")
A'	Max. digging reach (on ground)	15 010 (49'3")	16 070 (52'9")	17 070 (56'0")
B	Max. digging depth	9 320 (30'7")	10 420 (34'2")	11 420 (37'6")
B'	Max. digging depth (8' level)	9 190 (30'2")	10 310 (33'10")	11 330 (37'2")
C	Max. cutting height	13 580 (44'7")	14 020 (46'0")	14 390 (47'3")
D	Max. dumping height	9 010 (29'7")	9 430 (30'11")	10 360 (34'0")
E	Max. vertical wall depth	7 670 (24'11")	8 880 (29'2")	10 360 (34'0")
Digging force (arm cylinder)	kN (kgf, lbf)	362.9 (37 000, 81 600)	304.0 (31 000, 68 400)	264.8 (27 000, 59 500)
Digging force (bucket cylinder)	kN (kgf, lbf)	392.3 (40 000, 88 200)	392.3 (40 000, 88 200)	274.6 (28 000, 61 700)

Buckets

Capacity		Width		No. of teeth	Weight	Recommendation		
PCSA heaped	CECE heaped	Without shroud	With shroud			EX1100		
						9.1 m (29'10") boom		
						3.4 m (11'2") arm	4.5 m (14'9") arm	5.8 m (19'0") arm
**2.84 m ³ (3.71 cu yd)	2.5 m ³	1 600 mm (5'3")	1 700 mm (5'7")	5	2 950 kg (6 500 lb)			●
3.16 m ³ (4.13 cu yd)	2.8 m ³	1 740 mm (5'9")	1 840 mm (6'0")	5	3 100 kg (6 840 lb)			◎
**3.30 m ³ (4.31 cu yd)	3.0 m ³	1 360 mm (4'6")	1 460 mm (4'9")	4	4 000 kg (8 820 lb)		●	
3.76 m ³ (4.92 cu yd)	3.4 m ³	1 560 mm (5'1")	1 660 mm (5'5")	5	3 700 kg (8 160 lb)		◎	
**4.00 m ³ (5.23 cu yd)	3.6 m ³	1 580 mm (5'2")	1 680 mm (5'6")	5	4 450 kg (9 810 lb)	●		
**4.50 m ³ (5.88 cu yd)	4.0 m ³	1 710 mm (5'7")	1 810 mm (5'11")	5	4 650 kg (10 250 lb)	●		
4.60 m ³ (6.01 cu yd)	4.0 m ³	*1 810 mm (5'11")	*1 990 mm (6'6")	5	4 140 kg (9 130 lb)	◎		

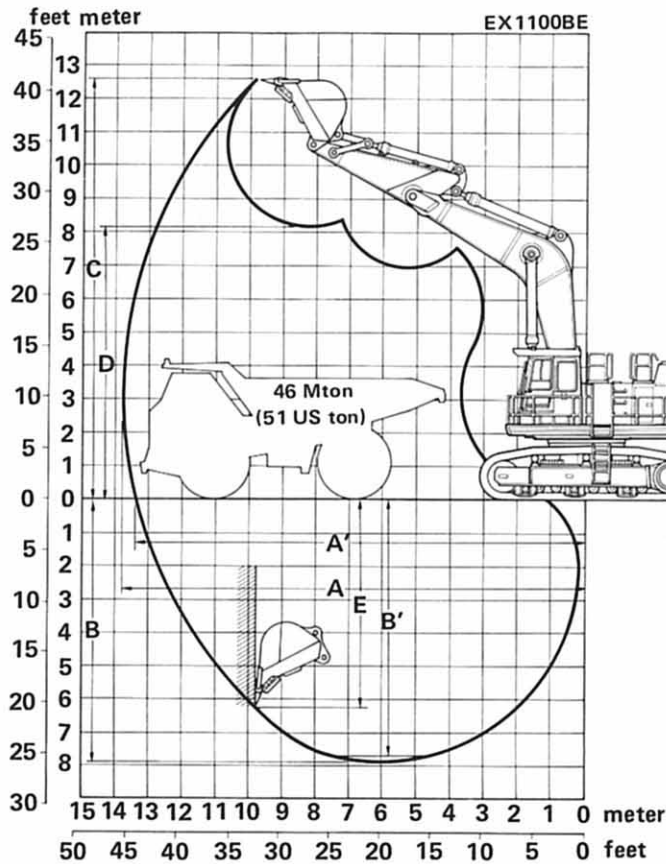
* Width of side cutters
** Rock bucket

◎ Suitable for materials with density of 2 000 kg/m³ (3 370 lb/cu yd) or less
● Heavy-duty service

TECHNICAL DATA



WORKING RANGES



EX1100BE: The EX1100BE 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.

	EX1100BE
BE-boom length	7.55 m (24'9")
Arm length	3.4 m (11'2")
A Max. digging reach	13 780 mm (45'3")
A' Max. digging reach (on ground)	13 410 mm (44'0")
B Max. digging depth	7 930 mm (26'0")
B' Max. digging depth (8' level)	7 800 mm (25'7")
C Max. cutting height	12 600 mm (41'4")
D Max. dumping height	8 150 mm (26'9")
E Max. vertical wall depth	6 270 mm (20'7")
Digging force (arm cylinder)	362.9 kN (37 000 kgf, 81 600 lbf)
Digging force (bucket cylinder)	451.1 kN (46 000 kgf, 101 400 lbf)

Buckets

Capacity		Width		No. of teeth	Weight	Recommendation
PCSA heaped	CECE heaped	Without shroud	With shroud			EX1100BE
						7.55 m (24'9") BE-boom
						3.4 m (11'2") arm
*5.10 m ³ (6.67 cu yd)	4.6 m ³	1 960 mm (6'5")	2 060 mm (6'9")	5	5 700 kg (12 570 lb)	●
6.00 m ³ (7.84 cu yd)	5.2 m ³	2 180 mm (7'2")	2 280 mm (7'6")	6	5 470 kg (12 060 lb)	◎

* Rock bucket

◎ Suitable for materials with density of 2 000 kg/cm³ (3 370 lb/cu yd) or less

● Heavy-duty service



STANDARD EQUIPMENT

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

Cab

- Large-sized cab integrated with headguard (meeting SAE FOPS)
- Air conditioner (Pressurized cab)
- Reinforced/tinted-glass, front wind-shield washer and intermittent wiper, cab light, car radio, cigarette lighter and ash-tray, digital clock, parcel pocket, sun visor, control neutralization lever, adjustable reclining suspension seat with arm rests and head rest, floor mat, air horn and rear view mirror.

Monitoring alarm system

- Meters Hourmeter, engine coolant temperature gauge, fuel meter
- Warning lamps Alternator charge, engine oil pressure, engine overheat, air cleaner clog, minimum fuel level
- Pilot lamps Headlight, engine oil level, engine coolant level, hydraulic oil level.
- Alarm buzzers Engine oil pressure, engine overheat.

Light

- 4 working lights

Upperstructure

- Overall undercover for noise prevention, 165 000 kg (36 380 lb) counterweight
- Lockable tool box, pneumatic grease gun with hose reel
- Cartridge-type filters for engine oil and fuel, heavy-duty type air cleaner with evacuator valve, radiator reserve tank and centralized lubrication system
- 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 recoil springs, travel motor cover, track and idler guards.

Miscellaneous

- Power mode selection device and two-speed travel controls
- Auto-idling device and quick-auto-idling device
- Lockable machine covers and standard tool kit.
- Catwalk, non-slip tapes, grating, stair and handrails.
- Cab high mount (Loading shovel)



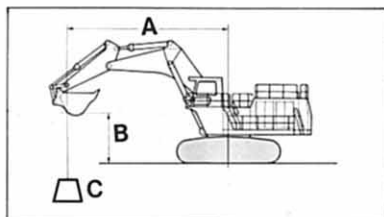
OPTIONAL EQUIPMENT

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



- Heavy-duty suspension seat (torsion bar springs and hyd. damping type)
- Seat belt
- Auto-lubrication system (Lincoln) for front-attachment pins
- Travel motion alarm device.
- Heavy lifting system (Backhoe)
- Cab high mount (Backhoe)

LIFTING CAPACITIES



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

METRIC MEASURE



Rating over-side or 360 degrees



Rating over-front

Unit: 1 000 kg

Conditions	Load point height m	Load radius												At max. reach		
		5 m		6 m		8 m		10 m		12 m		14 m				
																@m
EX1100 Boom 9.1 m Arm 3.4 m Bucket PCSA: 4.60 m³ CECE: 4.0 m³ Shoes 710 mm	8									*11.9	*11.9			*6.79	*6.79	14.4
										12.3	*14.7			*8.27	*8.27	
	6							*13.9	*13.9	11.9	*12.2			*6.81	*6.81	14.8
								*17.0	*17.0	11.9	*15.1			7.36	*8.30	
	4							15.9	*15.9	11.3	*13.1			6.93	*7.04	15.0
								15.9	*19.5	11.3	15.6			6.93	*8.57	
	2							14.7	*17.7	10.6	*14.1			6.94	*7.51	14.8
								14.7	20.3	10.6	14.9			6.94	*9.10	
	0 (Ground)							13.9	*18.9	10.1	14.4			7.43	*8.27	14.2
								13.9	19.5	10.1	14.4			7.43	*9.96	
	-2					19.7	*25.3	13.5	*19.0	9.87	14.1			8.61	*9.49	13.3
						19.7	27.8	13.5	19.1	9.87	14.1			8.61	*11.3	
-4		*27.1	*27.1	*28.7	*28.7	20.0	*23.4	13.6	*17.9					10.1	*13.1	11.8
		*29.4	*29.4	*30.5	*30.5	20.0	28.1	13.6	19.2					10.1	14.4	
-6		*26.7	*26.7	*24.7	*24.7	*19.7	*19.7	14.2	*14.6							
		*32.7	*32.7	*30.2	*30.2	20.6	*24.3	14.2	*18.2							

EX1100 Boom 9.1 m Arm 4.5 m Bucket PCSA: 3.76 m³ CECE: 3.4 m³ Shoes 710 mm	8									*10.6	*10.6			*4.82	*4.82	15.4
										*13.2	*13.2			*6.06	*6.06	
	6									*11.2	*11.2			*4.86	*4.86	15.8
											12.8	*14.0			*6.10	
	4					*19.1	*19.1	17.1	*14.7	12.1	*12.3	8.56	*10.6	*5.06	*5.06	16.0
						*23.2	*23.2	17.1	*18.0	12.1	*15.3	8.56	12.1	*6.34	*6.34	
	2					22.6	*22.8	15.7	*16.7	11.3	*13.4	8.20	*11.5	*5.45	*5.45	15.8
						22.6	*27.6	15.7	*20.5	11.3	15.7	8.20	11.7	6.44	*6.77	
	0 (Ground)					21.1	*25.0	14.7	*18.3	10.7	*14.3	7.89	11.4	*6.07	*6.07	15.3
						21.1	29.4	14.7	20.5	10.7	15.1	7.89	11.4	6.76	*7.48	
	-2					20.4	*25.6	14.1	*19.0	10.3	14.7			*7.04	*7.04	14.5
						20.4	28.7	14.1	19.9	10.3	14.7			7.59	*8.57	
-4		*25.8	*25.8	33.6	*33.7	20.3	*24.7	14.0	*18.6	10.2	*14.2			*8.60	*8.60	13.2
		*27.9	*27.9	33.6	*39.6	20.3	28.6	14.0	19.7	10.2	14.6			9.24	*10.3	
-6		*34.4	*34.4	*29.7	*29.7	20.7	*22.2	14.3	*16.6					12.2	*14.1	11.0
		*41.7	*41.7	34.4	*36.0	20.7	*27.2	14.3	20.0					12.2	17.2	
-8		*25.9	*25.9	*22.7	*22.7	*16.9	*16.9							*14.0	*14.0	9.00
		*31.9	*31.9	*27.9	*27.9	*21.0	*21.0							*17.6	*17.6	

EX1100 Boom 9.1 m Arm 5.8 m Bucket PCSA: 3.16 m³ CECE: 2.8 m³ Shoes 710 mm	8											*8.57	*8.57	*3.97	*3.97	16.2	
												*10.3	*10.3	*5.06	*5.06		
	6									*10.5	*10.5	*9.99	*9.99	*3.97	*3.97	16.7	
										*13.0	*13.0	10.3	*12.4	*5.07	*5.07		
	4							*13.8	*13.8	*11.8	*11.8	9.84	*10.7	*4.11	*4.11	16.8	
								*16.8	*16.8	13.5	*14.6	9.84	*13.3	*5.23	*5.23		
	2					*21.5	*21.5	*16.2	*16.2	12.6	*13.3	9.34	*11.5	*4.40	*4.40	16.7	
						24.8	*25.9	17.3	*19.7	12.6	*16.3	9.34	12.9	*5.56	*5.56		
	0 (Ground)					22.8	*24.7	16.1	*18.2	11.8	*14.5	8.88	*12.2	*4.86	*4.86	16.3	
						22.8	*29.7	16.1	21.9	11.8	16.2	8.88	12.4	*6.08	*6.08		
	-2				*20.7	*20.7	21.6	*26.3	15.2	*19.5	11.3	*15.4	8.55	12.1	*5.57	*5.57	15.6
						*22.4	*22.4	21.6	30.0	15.2	21.0	11.3	15.6	8.55	12.1	*6.88	
-4		*21.4	*21.4	*30.5	*30.5	21.2	*26.4	14.8	*19.9	11.0	15.3	8.45	12.0	*6.68	*6.68	14.5	
		*23.2	*23.2	*32.9	*32.9	21.2	29.5	14.8	20.5	11.0	15.3	8.45	12.0	*8.14	*8.14		
-6		*34.9	*34.9	*34.1	*34.1	21.2	*25.0	14.8	*19.0	11.0	*14.5			9.75	*12.3	12.9	
		*37.6	*37.6	34.6	*41.0	21.2	29.5	14.8	20.5	11.0	15.4			9.75	13.6		
-8		*34.0	*34.0	*29.0	*29.0	*21.6	*21.6	15.3	*16.1					13.1	*13.5	10.6	
		*41.0	*41.0	*35.1	*35.1	21.8	*26.3	15.3	*19.8					13.2	*16.8		

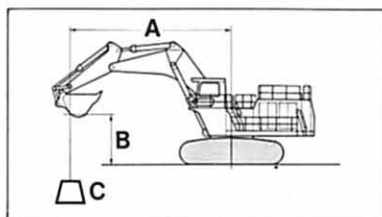
Equipped with heavy lifting system (option)

Note: 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% of 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.



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

ENGLISH MEASURE

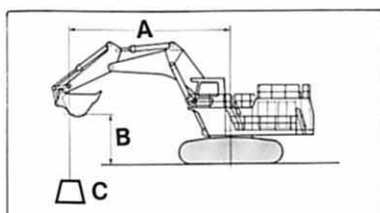
Rating over-side or 360 degrees Rating over-front

Unit: 1 000 lb

Conditions	Load point height ft	Load radius														At max. reach	
		15 ft		20 ft		25 ft		30 ft		35 ft		40 ft		45 ft		At max. reach	
																@ft in	
EX1100 Boom 29'10" Arm 11'2" Bucket PCSA: 6.01 cu yd Shoes 28"	25									*26.9	*26.9	26.0	*26.1			*14.9	*14.9
										*33.2	*33.2	26.0	*32.4			17.8	*18.2
	20							*32.9	*32.9	*28.8	*28.8	25.5	*26.5			15.0	*15.0
								*40.2	*40.2	*33.6	*33.6	25.5	*33.0			16.3	*18.3
	15							*37.4	*37.4	*31.5	*31.5	24.5	*27.9			*15.3	*15.3
								41.8	*45.7	31.9	*38.8	24.5	*33.9			15.5	*18.7
	10							39.0	*41.9	30.1	*34.2	23.4	*29.5			15.2	*15.9
								39.0	*51.1	30.1	41.4	23.4	32.6			15.2	*19.4
	5							36.8	*45.3	28.5	*36.6	22.4	*30.9			15.5	*16.9
								36.8	51.2	28.5	39.8	22.4	31.6			15.5	*20.4
EX1100 Boom 29'10" Arm 14'9" Bucket PCSA: 4.92 cu yd Shoes 28"	0 (Ground)							35.4	*47.1	27.4	*38.1	21.6	30.8			16.4	*18.2
								35.4	49.7	27.4	38.6	21.6	30.8			16.4	*22.0
	-5					47.3	*59.5	34.8	*47.5	26.8	38.0	21.2	30.4			18.2	*20.2
						47.3	66.8	34.8	49.0	26.8	38.0	21.2	30.4			18.2	*24.1
	-10					47.5	*56.8	34.7	*46.1	26.7	*37.6	21.3	*30.4			21.3	*23.0
						47.5	67.1	34.7	48.9	26.7	37.8	21.3	30.5			21.3	*26.3
	-20			*53.3	*53.3	*45.0	*45.0	36.3	*36.5								
				*65.3	*65.3	49.6	*55.3	36.3	*45.3								
	25											*23.5	*23.5			*10.6	*10.6
												28.1	*29.3			*13.3	*13.3
EX1100 Boom 29'10" Arm 19'0" Bucket PCSA: 4.13 cu yd Shoes 28"	20									*26.4	*26.4	*24.4	*18.9	*18.9		*10.7	*10.7
										*32.7	*32.7	27.3	*30.5	20.6	*22.8	*13.4	*13.4
	15					*42.1	*42.1	*34.0	*34.0	*29.1	*29.1	*26.0	*26.0	20.1	*24.2	*11.0	*11.0
						*51.0	*51.0	*41.6	*41.6	34.1	*36.0	26.2	*32.4	20.1	28.1	*13.8	*13.8
	10					*49.6	*49.6	*38.6	*38.6	*32.1	*32.1	25.0	*27.8	19.4	*25.1	*11.5	*11.5
						56.5	*60.1	42.1	*47.2	32.2	*39.5	25.0	34.5	19.4	27.4	14.2	*14.4
	5					52.6	*55.6	39.5	*42.6	30.5	*34.8	23.9	*29.6	18.7	*26.1	*12.3	*12.3
						52.6	*67.2	39.5	*52.0	30.5	42.1	23.9	33.3	18.7	26.7	14.3	*15.2
	0 (Ground)					50.2	*59.0	37.6	*45.5	29.1	*36.9	22.9	*31.0	18.2	26.1	*13.4	*13.4
						50.2	70.3	37.6	52.3	29.1	40.6	22.9	32.3	18.2	26.1	14.9	*16.5
EX1100 Boom 29'10" Arm 19'0" Bucket PCSA: 4.13 cu yd Shoes 28"	-5					49.0	*60.1	36.4	*47.1	28.1	*38.1	22.2	31.6	17.8	25.8	*14.9	*14.9
						49.0	69.0	36.4	51.0	28.1	39.6	22.2	31.6	17.8	25.8	16.2	*18.2
	-15	*60.6	*60.6	*71.2	*71.2	48.9	*56.5	35.9	*45.3	27.7	*36.7	22.2	*29.2			*20.4	*20.4
		*65.6	*65.6	72.4	*86.1	48.9	*68.6	35.9	50.4	27.7	39.1	22.2	31.6			22.0	*24.4
	-25	*65.2	*65.2	*53.0	*53.0	*42.7	*42.7	*33.1	*33.1								
		*79.8	*79.8	*65.0	*65.0	51.4	*52.7	38.0	*41.4								
	25													*21.3	*21.3	*8.72	*8.72
														24.3	*25.6	*11.1	*11.1
	20											*22.9	*22.9	*22.1	*22.1	*8.75	*8.75
												*28.4	*28.4	23.9	*27.5	*11.2	*11.2
EX1100 Boom 29'10" Arm 19'0" Bucket PCSA: 4.13 cu yd Shoes 28"	15											*25.0	*25.0	23.0	*23.3	*8.95	*8.95
												29.3	*30.8	23.0	*28.9	*11.4	*11.4
	10					*45.5	*45.5	*36.4	*36.4	*30.9	*30.9	*27.2	*27.2	22.1	*24.7	*9.32	*9.32
						*54.6	*54.6	*44.1	*44.1	35.6	*37.7	27.9	*33.5	22.1	30.2	*11.8	*11.8
	5					*52.9	*52.9	*41.3	*41.3	33.6	*34.2	26.6	*29.5	21.2	*26.2	*9.89	*9.89
						57.5	*63.6	43.3	*50.0	33.6	*41.7	26.6	36.1	21.2	29.2	*12.5	*12.5
	0 (Ground)					54.0	*58.3	40.9	*45.3	31.9	*37.0	25.4	*31.5	20.4	*27.5	*10.7	*10.7
						54.0	*70.1	40.9	*54.8	31.9	43.5	25.4	34.8	20.4	28.4	*13.4	*13.4
	-5					51.9	*61.3	39.1	*48.0	30.6	*39.1	24.4	*32.9	19.7	27.7	*11.8	*11.8
						51.9	72.0	39.1	53.8	30.6	42.1	24.4	33.8	19.7	27.7	*14.7	*14.7
EX1100 Boom 29'10" Arm 19'0" Bucket PCSA: 4.13 cu yd Shoes 28"	-15	*48.5	*48.5	73.4	*78.8	50.5	*61.2	37.6	*48.9	29.3	*40.0	23.5	32.9	19.4	*27.2	*15.7	*15.7
		*52.5	*52.5	73.4	*84.9	50.5	70.4	37.6	52.1	29.3	40.7	23.5	32.9	19.4	27.3	*19.0	*19.0
	-25	*84.5	*84.5	*65.6	*65.6	51.8	*52.3	38.4	*42.1	30.1	*33.6					*19.3	*19.3
		*101.7	*101.7	75.8	*79.2	51.8	*63.5	38.4	*51.5	30.1	41.4					*20.9	*20.9

Equipped with heavy lifting system (option)

Note: 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% of 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.



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

METRIC MEASURE

Rating over-side or 360 degrees Rating over-front

Unit: 1 000 kg

Conditions	Load point height m	Load radius										At max. reach	
		3 m	4 m	6 m	8 m	10 m	12 m	14 m	16 m	18 m	20 m	22 m	@ m
EX1100BE Boom 7.55 m Arm 3.4 m Bucket PCSA: 6.0 m ³ CECE: 5.2 m ³ Shoes 710 mm	8												12.5
	6												13.0
	4												13.2
	2												13.0
	0 (Ground)												12.3
	-2												11.2
	-4												
	-6												

With heavy lifting system (option)

ENGLISH MEASURE

Rating over-side or 360 degrees Rating over-front

Unit: 1 000 lb

Conditions	Load point height ft	Load radius										At max. reach	
		15 ft	20 ft	25 ft	30 ft	35 ft	40 ft	45 ft	50 ft	55 ft	60 ft	65 ft	@ ft in
EX1100BE Boom 24'9" Arm 11'2" Bucket PCSA: 7.84 cu yd Shoes 28"	25												41'6"
	20												42'9"
	15												43'3"
	10												43'1"
	5												42'2"
	0 (Ground)												40'6"
	-5												37'11"
	-10												34'1"
	-15												

Equipped with heavy lifting system (option)

Note: 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% of 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.

TRANSPORTATION

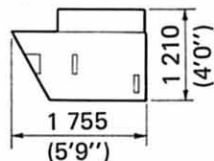
- Easily assembled owing to local assembling system requiring no welding.
- Overall width of below 3 500 mm (11'6") during transportation.

SUPERSTRUCTURE

Unit: mm (ft in)

Cab support for Loading shovel (Optional equipment for Backhoe)

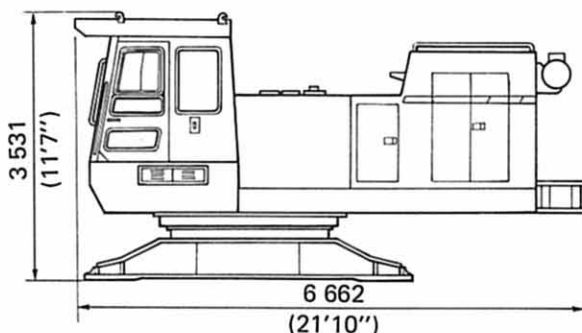
Weight: 550 kg (1 210 lb)



Width: 1 100 (3'7")

Superstructure

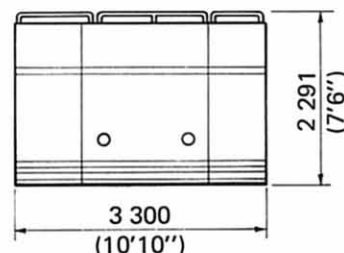
Weight: 31 800 kg (70 120 lb)



Width: 3 500 (11'6")

Counterweight

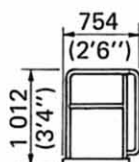
Weight: 16 500 kg (36 380 lb)



Width: 870 (2'10")

Handrail

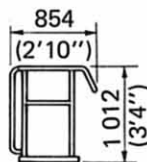
Weight: 18 kg
(40 lb)



Width: 388 (1'3")

Handrail

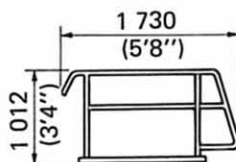
Weight: 17 kg
(37 lb)



Width: 388 (1'3")

Handrail

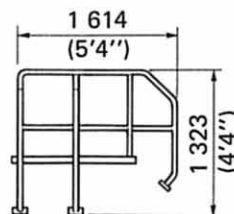
Weight: 25 kg
(55 lb)



Width: 299 (1'0")

Handrail

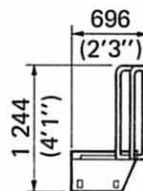
Weight: 27 kg
(60 lb)



Width: 229 (9")

Handrail

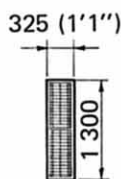
Weight: 52 kg
(115 lb)



Width: 814 (2'8")

Cat walk

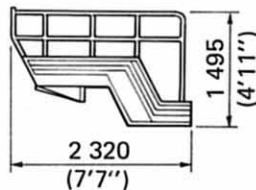
Weight: 21 kg (46 lb)



Height: 110 (4")

Cat walk for Loading shovel

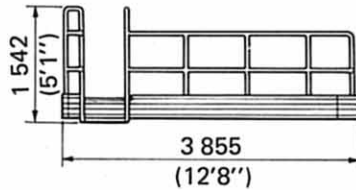
Weight: 190 kg (419 lb)



Width: 726 (2'5")

Cat walk

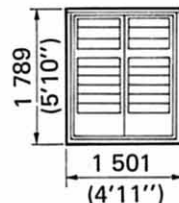
Weight: 195 kg (430 lb)



Width: 928 (3'1")

Radiator cover

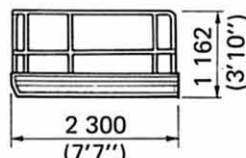
Weight: 181 kg (399 lb)



Width: 270 (11")

Cat walk for Backhoe

Weight: 164 kg (362 lb)



Width: 910 (3'0")

Pipe exhaust

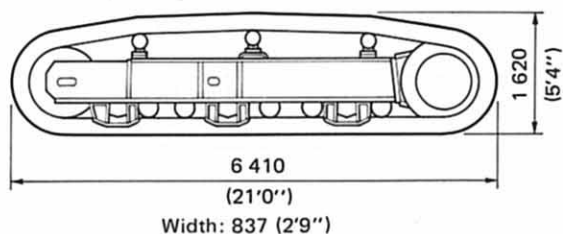
Weight: 12 kg (26 lb)



UNDERCARRIAGE

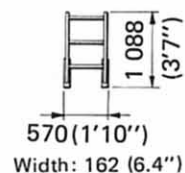
Side frames

With 710 mm (28") shoes: 14 600 kg (32 190 lb) x 2



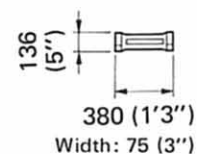
Ladders

Weight: 18 kg (40 lb) x 2



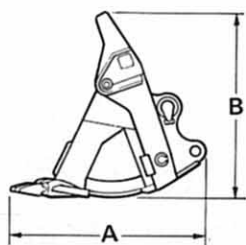
Steps

Weight: 3 kg (7 lb) x 2



LOADING SHOVEL ATTACHMENTS

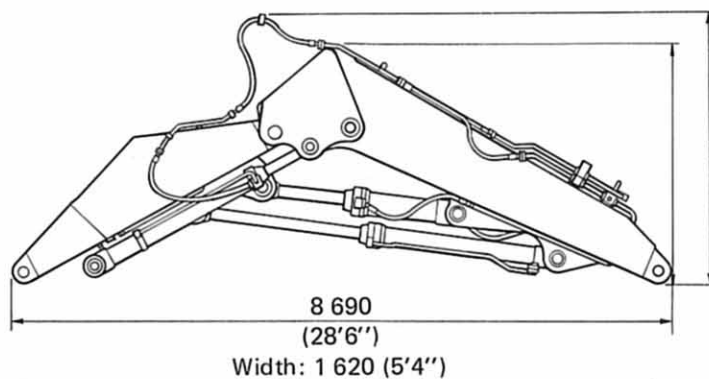
Bucket



Bucket capacity	A mm (ft in)	B mm (ft in)	Max. width mm (ft in)	Weight kg (lb)
5.7 m ³ (7.5 cu yd)	2 720 (8'11")	2 580 (8'6")	2 690 (8'10")	9 660 (21 300)
6.3 m ³ (8.2 cu yd)	2 720 (8'11")	2 780 (9'1")	2 890 (9'6")	9 080 (20 020)

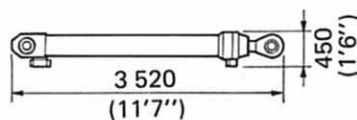
Boom & arm assembly

Weight: 15 200 kg (33 520 lb)



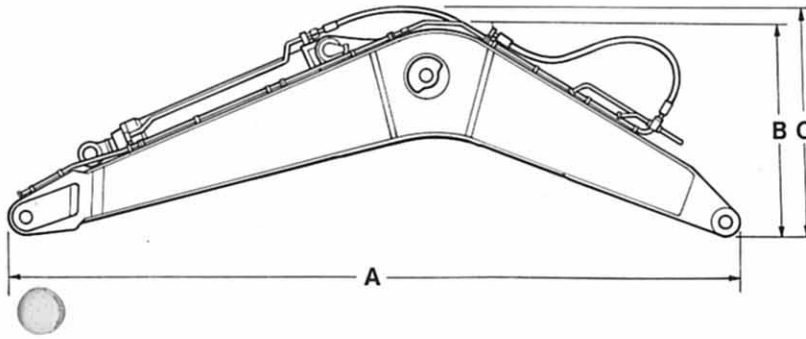
Boom cylinders

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



BACKHOE ATTACHMENTS

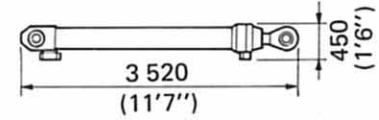
Boom



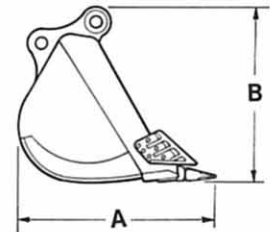
	Boom length	A	B	C	Width	Weight
EX1100	9.1 m (29'10")	9 500 mm (31'2")	2 810 mm (9'3")	3 100 mm (10'2")	1 460 mm (4'9")	11 000 kg (24 260 lb)
EX1100BE	7.55 m (24'9")	7 960 mm (26'1")	3 150 mm (10'4")	3 400 mm (11'2")	1 460 mm (4'9")	10 900 kg (24 030 lb)

Boom cylinders

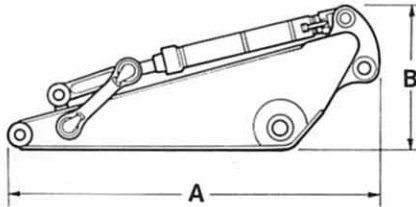
Weight: 1 170 kg (2 580 lb) x 2



Bucket



Arm



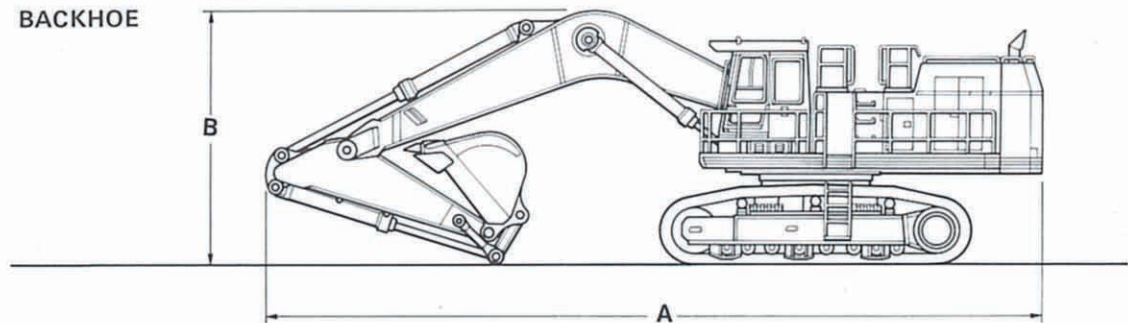
	Arm length	A	B	Width	Weight
EX1100	3.4 m (11'2")	4 830 mm (15'10")	1 870 mm (6'2")	960 mm (3'2")	5 730 kg (12 630 lb)
	4.5 m (14'9")	5 975 mm (19'7")	1 700 mm (5'7")	960 mm (3'2")	6 300 kg (13 890 lb)
	5.8 m (19'0")	7 220 mm (23'8")	1 750 mm (5'9")	985 mm (3'3")	5 800 kg (12 790 lb)
EX1100BE	3.4 m (11'2")	4 830 mm (15'10")	1 870 mm (6'2")	960 mm (3'2")	5 730 kg (12 630 lb)

Capacity		A	B	Width	Weight
PCSA heaped	CECE heaped				
*2.84 m ³ (3.71 cu yd)	2.5 m ³	1 890 mm (6'2")	2 310 mm (7'7")	1 700 mm (5'7")	2 950 kg (6 500 lb)
3.16 m ³ (4.13 cu yd)	2.8 m ³	1 890 mm (6'2")	2 310 mm (7'7")	1 840 mm (6'0")	3 100 kg (6 840 lb)
*3.30 m ³ (4.31 cu yd)	3.0 m ³	2 300 mm (7'7")	2 480 mm (8'2")	1 460 mm (4'9")	4 000 kg (8 820 lb)
3.76 m ³ (4.92 cu yd)	3.4 m ³	2 280 mm (7'6")	2 480 mm (8'2")	1 660 mm (5'5")	3 700 kg (8 160 lb)
*4.00 m ³ (5.23 cu yd)	3.6 m ³	2 300 mm (7'7")	2 480 mm (8'2")	1 680 mm (5'6")	4 450 kg (9 810 lb)
*4.50 m ³ (5.88 cu yd)	4.0 m ³	2 300 mm (7'7")	2 480 mm (8'2")	1 810 mm (5'11")	4 650 kg (10 250 lb)
4.60 m ³ (6.01 cu yd)	4.0 m ³	2 440 mm (8'0")	2 230 mm (7'4")	1 990 mm (6'6")	4 140 kg (9 130 lb)
*5.10 m ³ (6.67 cu yd)	4.6 m ³	2 210 mm (7'3")	2 600 mm (8'6")	2 060 mm (6'9")	5 700 kg (12 570 lb)
6.00 m ³ (7.84 cu yd)	5.2 m ³	2 160 mm (7'1")	2 560 mm (8'5")	2 280 mm (7'6")	5 470 kg (12 060 lb)

* Rock bucket

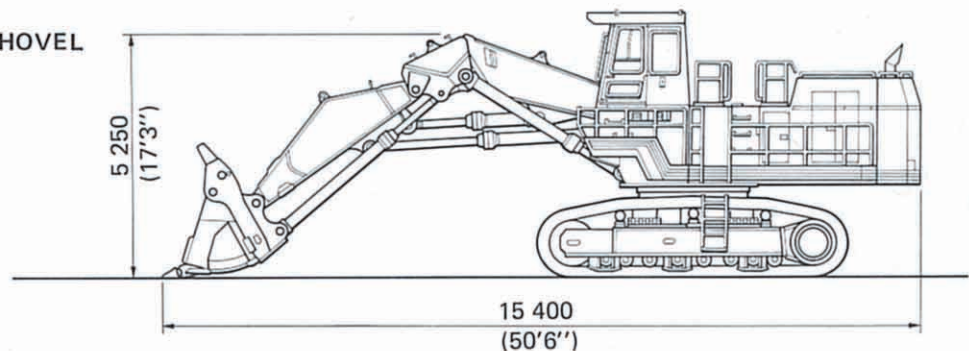
OVERALL

BACKHOE



	A	B	Width
EX1100	16 040 mm (52'7")	5 630 mm (18'6")	5 320 mm (17'5")
EX1100BE	14 500 mm (47'7")	6 300 mm (20'8")	5 320 mm (17'5")

LOADING SHOVEL



Weight: 105 000 kg (231 500 lb)

Width: 5 130 mm (16'10'')

These specifications are subject to change without notice.

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