

GIANT EX1900



■ **Engine Gross Power**

: 765 kW (1 025 hp)

■ **Operating Weight**

Backhoe : 186 500 kg
(411 200 lb)

Loading Shovel : 185 900 kg
(409 800 lb)

■ **Backhoe Bucket**

PCSA Heaped : 4.4 – 12.0 m³
(5.8 – 15.7 yd³)

CECE Heaped : 3.8 – 10.6 m³
(5.0 – 13.9 m³)

■ **Loading Shovel Bucket**

PCSA Heaped : 11.0 m³ (14.4 yd³)
12.0 m³ (15.7 yd³)
15.0 m³ (19.6 yd³)

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.



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

Bucket Passes to Dump Trucks

	HITACHI EH1600	HITACHI EH1700
Maximum Payload	98.9 US ton	108.4 US ton
Body Capacity (SAE 2:1 Heaped)	57.1 m ³ (74.6 yd ³)	60.3 m ³ (78.8 yd ³)
Backhoe 12.0 m ³ (15.7 yd ³)	4 or 5	5
Loading Shovel 11.0 m ³ (14.4 yd ³)	5 or 6	6

Powerful Single Engine — Ready for the task.

Time-proven Hitachi diesel engine produces a total of 765kW (1025hp) for handling the big excavation jobs.

746 kW
(1000 hp)
EX1800-3

765 kW (1025 hp)

Emission Control Engine —

Helping to protect our environment.

Conforms to U.S. EPA Tier 1 emission regulations.

Efficient E-P Control —

Adjusts power output to the work being performed.

Hitachi's computer-aided Engine-Pump Control (E-P Control) coaxes optimum efficiency from the engine and hydraulic pumps. This innovative system senses load demand and controls engine and pump output for maximum operating efficiency.

Larger Bucket Provides High Work Capacity.

● Backhoe bucket:

12.0 m³ (15.7 yd³)

● Loading shovel bucket:

11.0 m³ (14.4 yd³)

Maximum Excavating Force.

● Backhoe:

Arm crowd force

620 kN
(63 200 kgf, 139 400 lbf)

Bucket digging force

671 kN
(68 400 kgf, 150 800 lbf)

● Loading shovel:

Arm crowding force

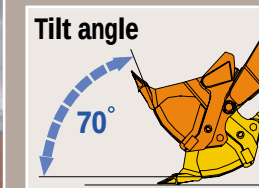
710 kN
(72 400 kgf, 159 600 lbf)

Bucket digging force

660 kN
(67 300 kgf, 148 400 lbf)

Large Bucket — Design for enhanced efficiency.

The large bucket has been shaped specifically to enhance scooping and loading operations. Its sharp tilt angle helps boost operating efficiency.



Productivity-boosting Auto-

Leveling Mechanism —

One-lever leveling control.

This is another unique Hitachi function developed exclusively for more efficient leveling operations.

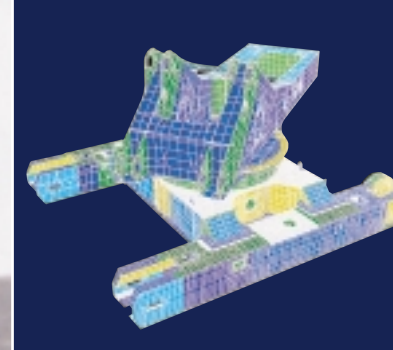




SOLUTION GIANT

**More Than Durable—
Just Plain Tough**

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

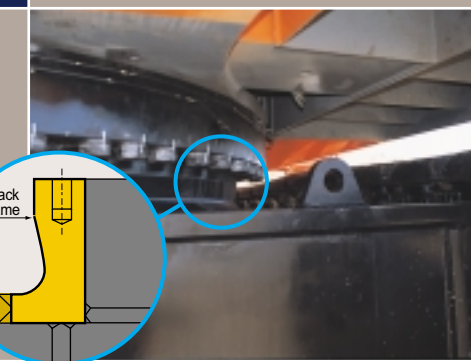
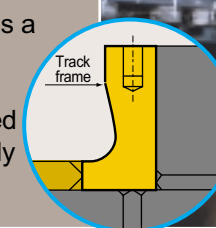


Rigid Box Design— Resists bending and twisting forces.

Computer-assisted analysis
was used to check that the
frame box can withstand
heavy-duty excavation work.

Solid Cast Track Frame— More strength for this key area.

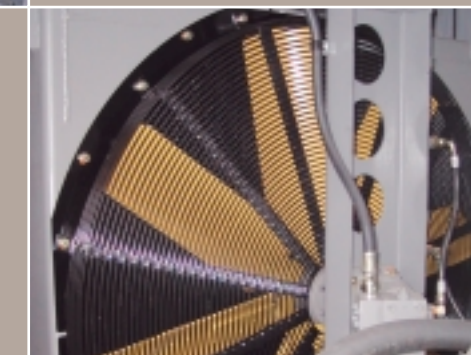
The track frame is cast as a
solid unit and includes a
flange for improved
reliability. This non-welded
design is used exclusively
on large Hitachi models.



High-mounted Compact Travel Motors and Optional Travel Motor Guard— Help boost durability at rugged work sites.

This design helps protect
the travel motors from
damage by rocks.

**Constant Correct Track
Tension— Nitrogen gas
accumulators absorb
abnormal track tension.**
Helps prevent abnormal track
tension from causing damage.
Travel is automatically stop-
ped if accumulator pressure
exceeds a preset level.



Strategically Positioned Oil Coolers— Help keep oil temperatures lower.

Oil coolers are used for
optimal cooling efficiency.
They are positioned far from
the engine radiator for even
better cooling potential.



SOLUTION GIANT

Giant-sized Comfort & Easy Maintenance

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

High Visibility 6.10 Meter (20' 0") Cab Height — Providing a good view of the work area.

Gives the operator a good view, even when a large 100 US-ton class dump truck is being loaded. This high height combined with the forward-sloping cab provides a view that boosts productivity.

Efficient Cab Layout —

All controls within natural reach of operator.

The ergonomic layout of the cab means the operator will do less stretching and reaching when operating. This adds up to less operator fatigue and greater operating efficiency.

Easy-to-Monitor Curved Instrument Panel — Provides at-a-glance monitoring of operating status.

Positioned so that the operator can continually monitor the status of key functions during operation. All buttons and instruments are easy to see and operate.

Constant-Cab-Comfort Air Conditioner — Keeps the cab pressurized to keep out dust while maintaining comfortable temperature.

Adjustable Sliding Cockpit —

Moves to the best position for the operator.

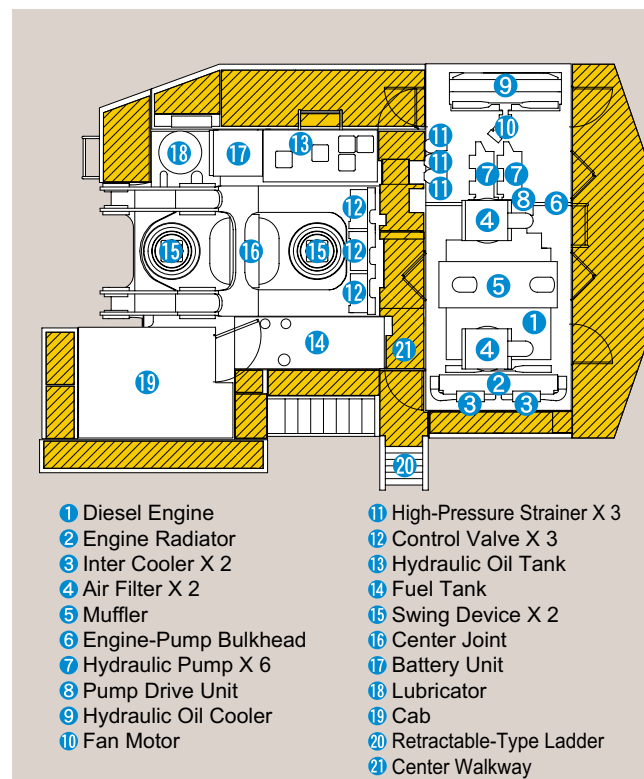
The operator can adjust the position of the levers and the seat to custom-fit his size and operating style.

Comfortable Cab — Comfort for reducing operator fatigue.

Fluid-filled elastic mounts help absorb vibration to provide durability and comfortable ride.



Easy Access and Maintenance — Easy access speeds inspections and maintenance.



Multipurpose Counterweight — Easier access for maintenance.

A walkway around the entire counterweight provides easy access to key rear areas. This means faster and safer inspection and maintenance.



Wide-Open Service Area — Provides the space needed for quick and easy inspection and maintenance.

This area is conveniently located at the center of the body and provides access to the engine as well as the hydraulic and electrical systems.



Auto Lubrication System — Eliminates the need for manual lubrication.

This system automatically lubricates the front joint pins and swing circle. This eliminates cumbersome daily lubrication.

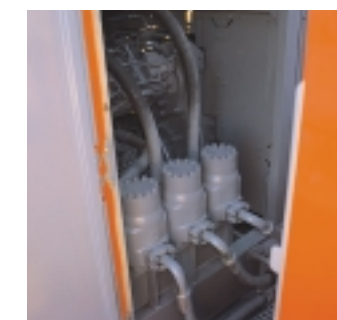


Easy-to-replace Grease Drum Can — Designed to provide quick and easy grease drum can changes.

The compartment floor slides down to lower a drum for simple, easy replacement.

Convenient Centralized Filter System — Designed to make filter inspection and maintenance easier.

Centralized position means that inspection and maintenance can be performed quickly and easily.



Low Maintenance Dust Ejector — Automatically expels dust from the air cleaner.

This is one less time-consuming task during routine maintenance.

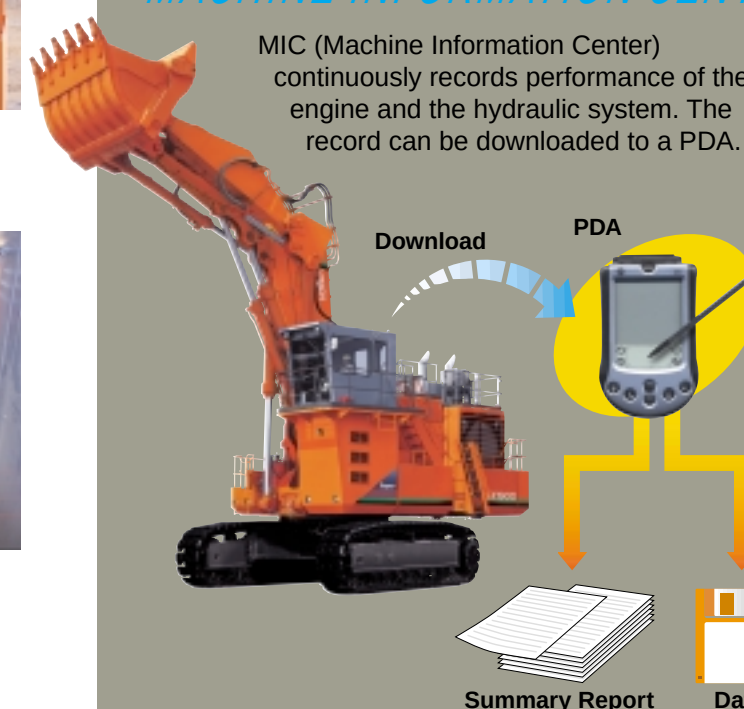
Contamination sensor — Alerts the operator of excessive contaminants in the oil.



This system detects accumulated contaminants that could cause damage and alerts the operator before trouble occurs.

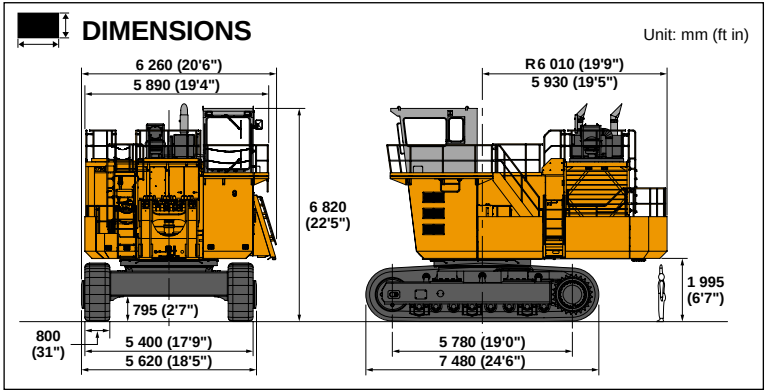
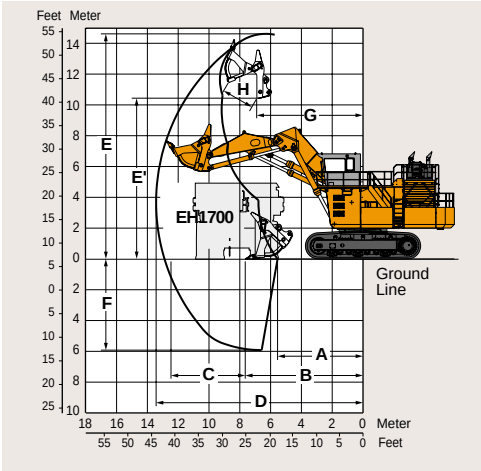
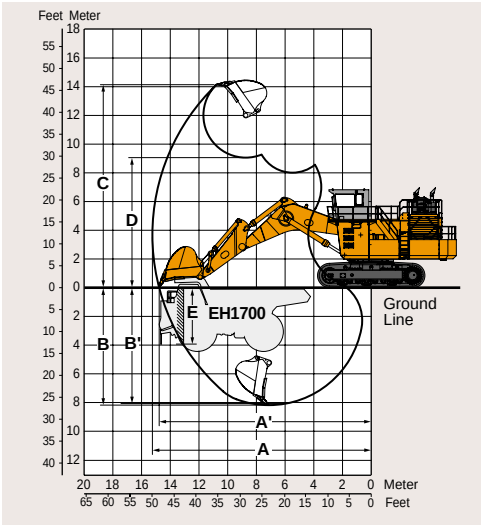
MACHINE INFORMATION CENTER

MIC (Machine Information Center) continuously records performance of the engine and the hydraulic system. The record can be downloaded to a PDA.



SPECIFICATIONS

WORKING RANGES



Backhoe

	Unit: mm (ft in)					
Boom length	8.30 m (27'3")	8.70 m (28'7")	8.70 m (28'7")	11.80 m (38'9")	11.80 m (38'9")	11.80 m (38'9")
Arm length	3.60 m (11'10")	4.00 m (13'1")	5.50 m (18'1")	4.00 m (13'1")	5.50 m (18'1")	7.00 m (23'0")
A Max. digging reach	15 250 (50'0")	16 070 (52'9")	17 500 (57'5")	19 390 (63'7")	20 860 (68'5")	21 850 (71'8")
A' Max. digging reach (on ground)	14 770 (48'6")	15 630 (51'3")	17 090 (56'1")	19 020 (62'5")	20 520 (67'4")	21 530 (70'8")
B Max. digging depth	8 180 (26'10")	9 230 (30'3")	10 730 (35'2")	11 780 (38'8")	13 280 (43'7")	14 430 (47'4")
B' Max. digging depth (8' level)	8 060 (26'5")	9 120 (29'11")	10 640 (34'11")	11 670 (38'3")	13 190 (43'3")	14 350 (47'1")
C Max. cutting height	14 140 (46'5")	14 480 (47'6")	15 010 (49'3")	17 380 (57'0")	18 140 (59'6")	17 900 (58'9")
D Max. dumping height	9 060 (29'9")	9 200 (30'2")	9 810 (32'2")	11 820 (38'9")	12 660 (41'6")	13 200 (43'4")
E Max. vertical wall	3 860 (12'8")	6 630 (21'9")	7 430 (24'5")	10 050 (33'0")	11 010 (36'1")	11 260 (36'11")

8.30 m (27'3") BE-boom
3.60 m (11'10") BE-arm
Bucket digging force
ISO
671 kN (68 400 kgf, 150 800 lbf)
SAE: PCSA
617 kN (62 900 kgf, 138 700 lbf)
Arm crowd force
ISO
620 kN (63 200 kgf, 139 400 lbf)
SAE: PCSA
609 kN (62 100 kgf, 136 900 lbf)

Loading Shovel

A Min. digging distance
5 550 mm (18'3")
B Min. level crowding distance
7 650 mm (25'1")
C Level crowding distance
4 820 mm (15'10")
D Max. digging reach
13 430 mm (44'1")
E Max. cutting height
14 610 mm (47'11")
E' Max. dumping height
10 440 mm (34'3")
F Max. digging depth
5 920 mm (19'5")
G Working radius at max.
dumping height
6 890 mm (22'7")
H Max. bucket opening width
2 100 mm (6'11")
Arm crowding force
710 kN (72 400 kgf, 159 600 lbf)
Bucket digging force
660 kN (67 300 kgf, 148 400 lbf)

ENGINE

Model Hitachi S12A2-Y1TAA1
Rated power
DIN 6271, net 720 kW (979 PS) at 1 800 min⁻¹ (rpm)
SAE J1995, gross 765 kW (1 025 hp) at 1 800 min⁻¹ (rpm)
Piston displacement 33.9 L (2 069 in³)
Fuel tank 3 085 L (815 US gal, 680 Imp gal)

HYDRAULIC SYSTEM

Main pumps 6 x variable piston
Max. oil flow ... 6 x 335 L/min (6 x 88 US gpm, 6 x 74 Imp gpm)
Pressure setting 29.4 MPa (300 kgf/cm², 4 270 psi)

UPPERSTRUCTURE

Swing speed 4.7 min⁻¹ (rpm)

UNDERCARRIAGE

Travel speeds High : 0 to 2.8 km/h (1.7 mph)
Low : 0 to 2.1 km/h (1.3 mph)
Maximum traction force 941.5 kN (96 000 kgf, 212 000 lbf)
Gradeability 30° (60 %) max.

WEIGHTS AND GROUND PRESSURE

Loading Shovel
Equipped with 11.0 m³ (14.4 yd³; PCSA heaped)
bottom dump bucket

Shoe width	Operating weight	Ground pressure
800 mm (31")	185 900 kg (409 800 lb)	178 kPa (1.81 kgf/cm ² , 25.7 psi)

Backhoe
Equipped with 8.30 m (27'3") boom, 3.60 m (11'10") arm, and 12.0 m³ (15.7 yd³; PCSA heaped) bucket

Shoe width	Operating weight	Ground pressure
800 mm (31")	186 500 kg (411 200 lb)	178 kPa (1.81 kgf/cm ² , 25.7 psi)

BACKHOE ATTACHMENTS

Bucket Capacity (PCSA 1:1 heaped)
4.4 m³ (5.8 yd³) / 4.8 m³ (6.3 yd³) / 6.0 m³ (7.9 yd³)
8.0 m³ (10.5 yd³) / 9.6 m³ (12.6 yd³) / 12.0 m³ (15.7 yd³)

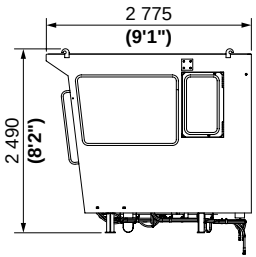
LOADING SHOVEL ATTACHMENTS

Bucket Capacity (PCSA 2:1 heaped)
11.0 m³ (14.4 yd³)
12.0 m³ (15.7 yd³)
15.0 m³ (19.6 yd³)

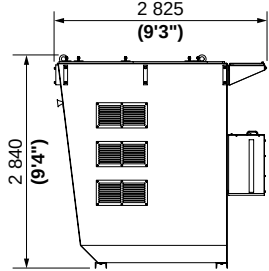
UPPERSTRUCTURE Assembly requires no welding.

Unit: mm (ft in)

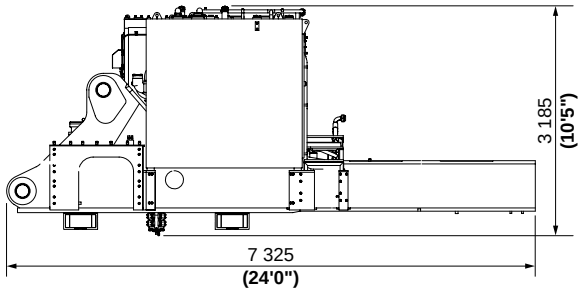
Cab assembly
Weight: 1 650 kg (3 640 lb)
Width: 1 680 (5'6")



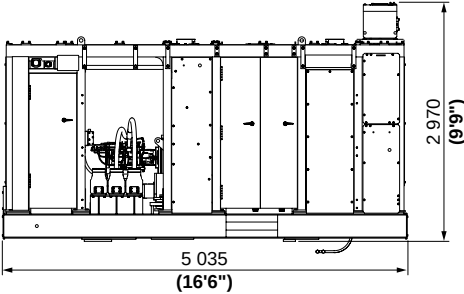
Cab bed
Weight: 2 390 kg (5 270 lb)
Width: 1 660 (5'5")



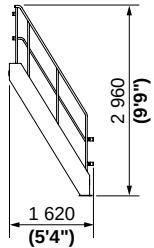
Main frame assembly
Weight: 24 900 kg (54 900 lb)
Width: 3 580 (11'9")



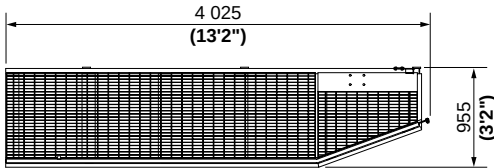
Engine unit
Weight: 11 900 kg (26 240 lb)
Width: 2 230 (7'4")



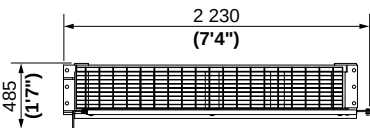
Step
Weight: 162 kg (360 lb)
Width: 700 (2'4")



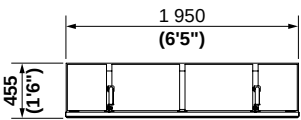
Fender
Weight: 396 kg (870 lb)
Width: 1 700 (5'7")



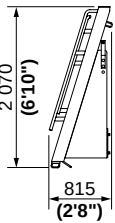
Fender
Weight: 177 kg (390 lb)
Width: 2 265 (7'5")



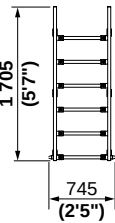
Fender
Weight: 90.3 kg (200 lb)
Width: 1 320 (4'4")



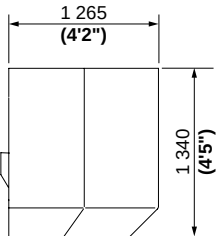
Ladder
Weight: 295 kg (650 lb)
Width: 700 (2'4")



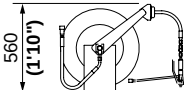
Ladder
Weight: 27.2 kg (60 lb)
Width: 245 (9'7")



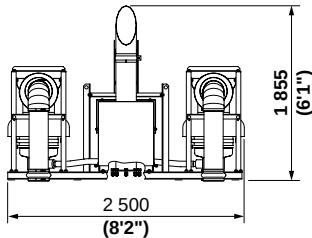
Counterweight
Weight: 26 000 kg (57 320 lb)
Width: 5 400 (17'9")



Hose reel
Weight: 50 kg (110 lb)
Width: 265 (10.4")



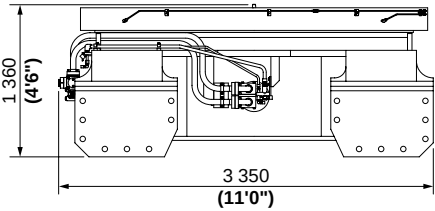
Muffler
Weight: 649 kg (1 430 lb) x 2
Width: 1 710 (5'7")



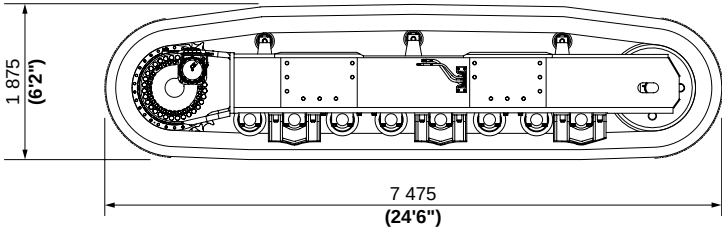
UNDERCARRIAGE

Unit: mm (ft in)

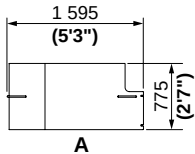
Track center frame assembly
Weight: 16 800 kg (37 040 lb)
Width: 4 740 (15'7")



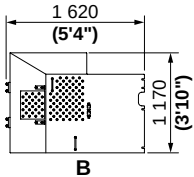
Track side frame assembly
Weight: 22 100 kg (48 720 lb) x 2
Width: 1 630 (5'4")



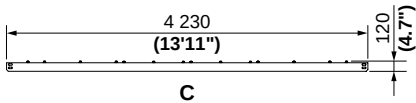
A : Center cover
Weight: 30 kg (70 lb) x 2
Width: 440 (1'5")



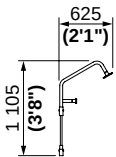
B : Side cover
Weight: 78 kg (170 lb) x 2
Width: 380 (1'3")



C : Stay
Weight: 79 kg (170 lb)
Width: 100 (3.9")



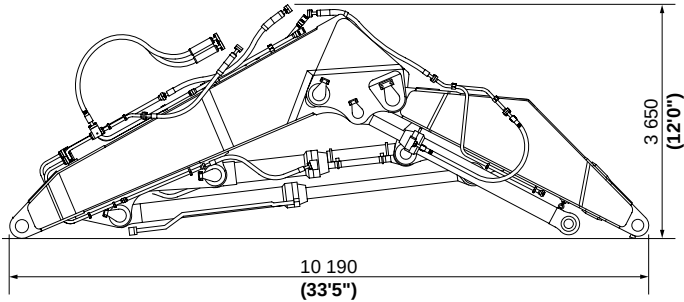
Step
Weight: 14 kg (30 lb)
Width: 530 (1'4")



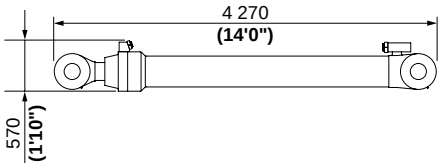
LOADER ATTACHMENT

Unit: mm (ft in)

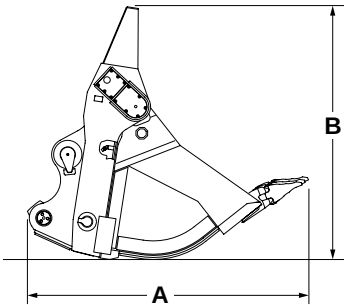
Boom & arm assembly
Weight: 25 260 kg (55 700 lb)
Width: 2 160 (7'1")



Boom cylinder
Weight: 2 270 kg (5 000 lb)
Width: 440 (1'5")



Bucket



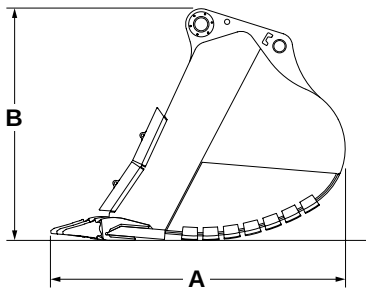
Bucket capacity	A	B	width	weight
11.0 m ³ (14.4 yd ³)	3 480 mm (11'5")	3 130 mm (10'3")	3 440 mm (11'3")	15 100 kg (33 300 lb)
12.0 m ³ (15.7 yd ³)	3 730 mm (12'2")	3130 mm (10'3")	3 440 mm (11'3")	15 520 kg (34 200 lb)
15.0 m ³ (19.6 yd ³)	3 690 mm (12'1")	3 130 mm (10'3")	4 140 mm (13'7")	16 820 kg (37 080 lb)

BACKHOE ATTACHMENT

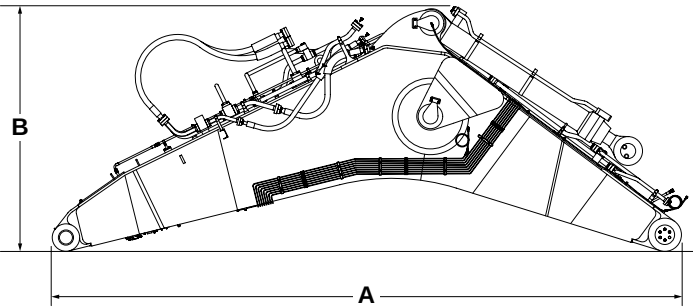
Unit: mm (ft in)

ENGLISH MEASURE

Bucket



Boom assembly

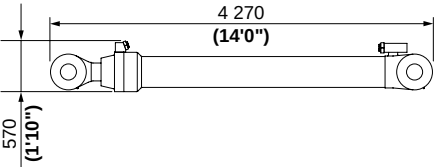


Bucket capacity		A	B	width	weight (with bucket pins)
PCSA heaped	CECE heaped				
4.4 m ³ (5.8 yd ³)	3.8 m ³ (5.0 yd ³)	2 630 mm (8'8")	2 180 mm (7'2")	2 070 mm (6'10")	4 830 kg (10 650 lb)
4.8 m ³ (6.3 yd ³)	4.2 m ³ (5.5 yd ³)	2 950 mm (9'8")	2 470 mm (8'1")	1 650 mm (5'5")	5 180 kg (11 420 lb)
6.0 m ³ (7.9 yd ³)	5.3 m ³ (6.9 yd ³)	2 950 mm (9'8")	2 470 mm (8'1")	1 950 mm (6'5")	6 390 kg (14 090 lb)
8.0 m ³ (10.5 yd ³)	7.0 m ³ (9.2 yd ³)	3 090 mm (10'2")	2 480 mm (8'2")	2 325 mm (7'8")	7 430 kg (16 380 lb)
9.6 m ³ (12.6 yd ³)	8.4 m ³ (11.0 yd ³)	3 090 mm (10'2")	2 480 mm (8'2")	2 710 mm (8'11")	8 080 kg (17 820 lb)
12.0 m ³ (15.7 yd ³)	10.6 m ³ (13.9 yd ³)	3 410 mm (11'2")	2 680 mm (8'10")	3 050 mm (10'0")	12 900 kg* (28 440 lb)

Note: * with wear plate

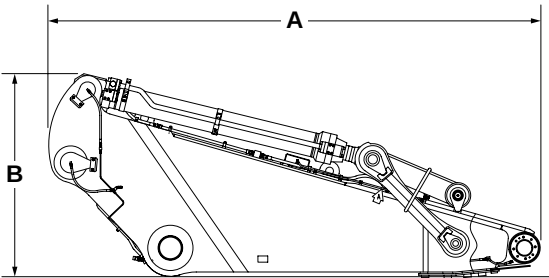
Boom cylinder

Weight: 2 270 kg (5 000 lb)
Width: 440 (1'5")

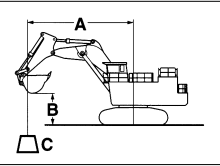


Boom length	A	B	width	weight
8.30 m (27'3")	8 720 mm (28'7")	3 400 mm (11'2")	2 050 mm (6'9")	18 700 kg (41 230 lb)
8.70 m (28'7")	9 120 mm (29'11")	3 500 mm (11'6")	2 050 mm (6'9")	19 100 kg (42 100 lb)
11.80 m (38'9")	12 220 mm (40'1")	3 700 mm (12'2")	2 050 mm (6'9")	22 700 kg (50 000 lb)

Arm assembly



Arm length	A	B	width	weight
3.60 m (11'10")	5 000 mm (16'5")	2 060 mm (6'9")	1 720 mm (5'8")	10 600 kg (23 370 lb)
4.00 m (13'1")	5 280 mm (17'4")	1 950 mm (6'5")	1 720 mm (5'8")	10 500 kg (23 200 lb)
5.50 m (18'1")	6 780 mm (22'3")	1 700 mm (5'7")	1 720 mm (5'8")	11 500 kg (25 400 lb)
7.00 m (23'0")	8 370 mm (27'6")	2 140 mm (7'0")	1 780 mm (5'10")	10 900 kg (24 000 lb)



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

Rating over-side or 360 degrees

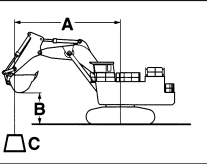
Rating over-front

Unit: 1 000 lb

Conditions		Load point height	Load radius																At max. reach		
			20 ft		25 ft		30 ft		35 ft		40 ft		45 ft		50 ft		55 ft				
																					@ft in
BE-boom BE-arm Bucket PCSA: 15.7 yd³ Shoes	27'3"	35 ft							*25.7	*25.7									*17.3	*17.3	44'2"
	11'10"	30 ft							*39.1	*39.1									*16.9	*16.9	46'5"
		25 ft								*49.4	*49.4	*39.4	*39.4						*17.1	*17.1	47'10"
	15.7 yd³	20 ft					*60.9	*60.9	*52.8	*52.8	*48.1	*48.1							*17.8	*17.8	48'6"
		15 ft					*69.6	*69.6	*57.8	*57.8	*50.4	*50.4							*19.0	*19.0	48'7"
	31"	10 ft					*78.3	*78.3	*62.9	*62.9	50.3	*53.2							*20.8	*20.8	47'11"
		5 ft					83.8	*84.8	63.2	*67.2	48.3	*55.5							*23.5	*23.5	46'7"
	31"	0 (Ground)					80.7	*88.0	60.8	*69.6	46.8	*56.6							*23.2	*23.2	44'6"
		—5 ft			110.6	*111.4	79.2	*87.4	59.6	*69.3	46.0	*55.2									
		—10 ft	*107.1	*107.1	*103.6	*103.6	79.1	*82.6	59.4	*65.3											
—15 ft		*108.5	*108.5	*90.5	*90.5	*72.4	*72.4	*54.7	*54.7												
		—20 ft			*69.0	*69.0	*52.1	*52.1													
Boom Arm Bucket PCSA: 12.6 yd³ Shoes	28'7" 13'1" 12.6 yd³ 31"	35 ft																	*22.0	*22.0	46'3"
		30 ft									*40.9	*40.9							*21.4	*21.4	48'6"
		25 ft									*48.4	*48.4							*21.4	*21.4	50'0"
		20 ft							*55.5	*55.5	*50.5	*50.5							*21.8	*21.8	50'10"
		15 ft					*72.9	*72.9	*61.1	*61.1	*53.7	*53.7	*46.1	*46.1					*22.6	*22.6	51'0"
		10 ft					*82.0	*82.0	*66.8	*66.8	*57.2	*57.2	46.0	*50.9					*24.0	*24.0	50'7"
		5 ft					*88.8	*88.8	70.8	*71.5	56.0	*60.2	44.7	*52.2					*25.9	*25.9	49'6"
		0 (Ground)			118	119	88.1	*92.5	68.3	*74.5	54.2	*62.1	43.7	*49.4					*28.7	*28.7	47'9"
		—5 ft			*117	*117	86.5	*92.9	66.8	*75.2	53.2	*62.0							*32.6	*32.6	45'2"
		—10 ft			*111	*111	86.2	*89.7	66.4	*72.8	53.2	*58.8							*26.8	*26.8	41'8"
		—15 ft		*100	*100	*82.2	*82.2	*65.9	*65.9												
		—20 ft		*84.1	*84.1	*67.7	*67.7														
Boom Arm Bucket PCSA: 10.5 yd³ Shoes	28'7" 18'1" 10.5 yd³ 31"	40 ft																	*23.7	*23.7	48'9"
		35 ft																	*22.7	*22.7	51'6"
		30 ft											*39.0	*39.0					*22.2	*22.2	53'5"
		25 ft											*38.8	*38.8					*22.2	*22.2	54'9"
		20 ft									*42.6	*42.6	*40.3	*40.3					*22.6	*22.6	55'6"
		15 ft							*52.4	*52.4	*46.6	*46.6	*42.6	*42.6	38.5	*39.7			*23.4	*23.4	55'8"
		10 ft					*71.4	*71.4	*59.0	*59.0	*50.9	*50.9	*45.4	*45.4	37.4	*41.6			*24.7	*24.7	55'4"
		5 ft			*105	*105	*80.5	*80.5	*65.2	*65.2	*55.0	*55.0	45.5	*48.0	36.2	*42.8			*26.5	*26.5	54'4"
		0 (Ground)			*113	*113	*87.1	*87.1	69.5	*70.0	54.8	*58.4	43.8	*50.0	35.3	*41.0			*29.0	*29.0	52'10"
		—5 ft			*117	*117	86.7	*90.7	66.9	*73.0	53.0	*60.4	42.6	*51.0					*32.6	*32.6	50'7"
		—10 ft			*115	*115	85.0	*91.1	65.4	*73.6	51.9	*60.5	42.1	*49.8					*36.0	*36.0	47'6"
		—15 ft			*110	*110	84.6	*88.0	65.1	*71.1	51.8	*57.7									
		—20 ft			*100	*100	*80.4	*80.4	*64.3	*64.3	*49.0	*49.0									
—25 ft			*82.8	*82.8	*65.7	*65.7	*48.5	*48.5													

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



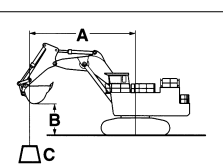
Rating over-front

Unit: 1 000 lb

Conditions		Load point height	Load radius																At max. reach			
			25 ft		30 ft		35 ft		40 ft		45 ft		50 ft		55 ft		60 ft					
																					@ft in	
Boom Arm Bucket PCSA : 7.9 yd ³ Shoes	38'9" 13'1" 31"	45 ft										*31.3	*31.3							*27.7	*27.7	52'8"
	40 ft											*30.2	*30.2							*27.3	*27.3	55'9"
	35 ft											*30.0	*30.0	*29.9	*29.9					*27.0	*27.0	58'1"
	30 ft											*31.1	*31.1	*29.6	*29.6					*26.5	*26.5	59'10"
	25 ft					*43.8	*43.8	*37.3	*37.3	*33.1	*33.1	*30.5	*30.5							24.5	*26.2	61'0"
	20 ft							*41.2	*41.2	*35.7	*35.7	*32.1	*32.1	29.9	*30.2					23.2	*26.2	61'8"
	15 ft							*45.2	*45.2	*38.4	*38.4	*33.9	*33.9	29.0	*31.1					22.4	*26.5	61'11"
	10 ft							*48.9	*48.9	*41.0	*41.0	34.3	*35.7	28.0	*32.1					22.3	*27.1	61'7"
	5 ft							48.6	*51.8	39.9	*43.2	32.9	*37.3	27.1	*33.1					22.7	*28.0	60'10"
	0 (Ground)							47.0	*53.7	38.6	*44.9	31.9	*38.5	26.5	*33.8					23.8	*29.3	59'6"
	—5 ft							46.2	*54.5	37.8	*45.8	31.3	*39.1	26.5	*33.6					25.6	*30.3	57'7"
	—10 ft					58.1	*64.9	46.1	*54.2	37.6	*45.7	31.3	*38.7							28.6	*30.3	55'1"
	—15 ft			*73.8	*73.8	58.9	*62.5	46.6	*52.6	38.0	*44.3	32.1	*36.6							*29.7	*29.7	51'10"
	—20 ft	*74.1	*74.1	*68.6	*68.6	*58.5	*58.5	47.8	*49.3	39.3	*40.8									*27.9	*27.9	47'8"
	—25 ft	*69.8	*69.8	*61.1	*61.1	*52.0	*52.0	*43.0	*43.0													
	—30 ft			*49.5	*49.5	*40.8	*40.8															
Boom Arm Bucket PCSA : 6.3 yd ³ Shoes	38'9" 18'1" 31"	45 ft												*24.7	*24.7					*22.1	*22.1	58'5"
	40 ft													*23.3	*23.3					*21.8	*21.8	61'2"
	35 ft													*23.1	*23.1	*23.5	*23.5			*21.8	*21.8	63'3"
	30 ft													*23.8	*23.8	*23.2	*23.2			*22.0	*22.0	64'10"
	25 ft										*27.6	*27.6	*25.2	*25.2	*23.8	*23.8			21.9	*22.2	65'11"	
	20 ft							*34.8	*34.8	*30.2	*30.2	*27.0	*27.0	*24.9	*24.9	*24.0	*24.0	20.7	*22.6	66'7"		
	15 ft							*39.0	*39.0	*33.1	*33.1	*29.1	*29.1	*26.3	*26.3	*24.7	*24.7	20.0	*23.0	66'9"		
	10 ft							*43.0	*43.0	*36.1	*36.1	*31.2	*31.2	*27.8	*27.8	24.8	*25.5	19.8	*23.5	66'5"		
	5 ft							*46.5	*46.5	*38.7	*38.7	*33.2	*33.2	*29.2	*29.2	24.0	*26.4	20.1	*24.0	65'9"		
	0 (Ground)							*49.3	*49.3	*41.0	*41.0	34.2	*34.9	28.2	*30.5	23.3	*27.1	20.9	*24.5	64'6"		
	—5 ft					60.9	*62.8	49.0	*51.1	40.1	*42.6	33.1	*36.2	27.5	*31.3	23.1	*27.2	22.3	*25.0	62'10"		
	—10 ft					60.3	*63.3	48.2	*52.0	39.3	*43.4	32.5	*36.8	27.2	*31.5			24.4	*25.2	60'7"		
	—15 ft			*76.0	*76.0	60.4	*62.4	48.0	*51.7	39.1	*43.3	32.5	*36.5	27.5	*30.5			*25.2	*25.2	57'8"		
	—20 ft	*87.4	*87.4	*72.5	*72.5	*60.2	*60.2	48.5	*50.1	39.6	*41.9	33.1	*34.8					*24.6	*24.6	54'1"		
	—25 ft	*80.4	*80.4	*67.3	*67.3	*56.2	*56.2	*46.8	*46.8	*38.6	*38.6	*29.7	*29.7					*22.8	*22.8	49'6"		
	—30 ft	*70.4	*70.4	*59.4	*59.4	*49.6	*49.6	*40.6	*40.6	*30.8	*30.8											
Boom Arm Bucket PCSA : 5.8 yd ³ Shoes	38'9" 23'0" 31"	45 ft													*23.2	*23.2			*17.7	*17.7	62'3"	
	40 ft														*21.6	*21.6			*17.0	*17.0	64'9"	
	35 ft														*21.5	*21.5	*22.3	*22.3	*16.5	*16.5	66'9"	
	30 ft														*22.2	*22.2	*22.1	*22.1	*16.3	*16.3	68'3"	
	25 ft													*24.6	*24.6	*23.3	*23.3	*22.6	*22.6	*16.2	*16.2	69'4"
	20 ft										*29.5	*29.5	*26.7	*26.7	*24.8	*24.8	*23.6	*23.6	*16.4	*16.4	69'11"	
	15 ft							*37.7	*37.7	*32.7	*32.7	*29.1	*29.1	*26.5	*26.5	*24.7	*24.7	*16.7	*16.7	70'2"		
	10 ft							*42.2	*42.2	*36.0	*36.0	*31.6	*31.6	*28.4	*28.4	*26.0	*26.0	*17.3	*17.3	96'11"		
	5 ft							*46.4	*46.4	*39.1	*39.1	*34.0	*34.0	*30.2	*30.2	*27.4	*27.4	*18.0	*18.0	69'4"		
	0 (Ground)							*49.9	*49.9	*41.9	*41.9	*36.1	*36.1	*31.8	*31.8	26.6	*28.5	*19.0	*19.0	68'3"		
	—5 ft					*64.3	*64.3	*52.6	*52.6	43.9	*44.2	36.6	*38.0	30.7	*33.2	25.8	*29.5	*20.3	*20.3	66'9"		
	—10 ft					63.9	*66.1	51.7	*54.5	42.6	*45.8	35.6	*39.2	30.0	*34.1	25.4	*29.9	*22.1	*22.1	64'9"		
	—15 ft			81.4	81.8	63.2	*66.6	50.9	*55.3	41.9	*46.6	35.0	*39.8	29.6	*34.4	25.4	*29.5	*24.3	*24.3	62'2"		
	—20 ft	*68.2	*68.2	*80.0	*80.0	63.3	*65.8	50.8	*54.9	41.8	*46.4	35.0	*39.5	29.8	*33.6			*26.6	*26.6	59'0"		
	—25 ft	*76.5	*76.5	*76.6	*76.6	*63.5	*63.5	51.4	*53.2	42.3	*44.9	35.6	*37.8	*30.7	*30.7			*26.4	*26.4	55'1"		
	—30 ft	*84.5	*84.5	*71.1	*71.1	*59.3	*59.3	*49.7	*49.7	*41.4	*41.4	*33.3	*33.3									
—35 ft	*75.2	*75.2	*62.7	*62.7	*52.3	*52.3	*43.1	*43.1	*33.9	*33.9												

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



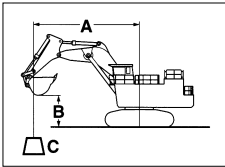
Rating over-front

Unit: 1 000 kg

Conditions		Load point height	Load radius																At max. reach		
			6 m		8 m		10 m		12 m		14 m		16 m		18 m		20 m				
																					meter
BE-boom 8.30 m BE-arm 3.60 m Bucket PCSA: 12.0 m³ CECE: 10.6 m³ Shoes 800 mm	10 m																				
	8 m							*17.2	*17.2									*7.7	*7.7	14.5	
	6 m					*25.5	*25.5	*22.1	*22.1									*8.1	*8.1	14.8	
	4 m					*29.4	*29.4	*23.7	*23.7									*8.9	*8.9	14.7	
	2 m					*32.9	*32.9	22.9	*25.4									*10.2	*10.2	14.3	
	0 (Ground)					31.1	*34.8	21.9	*26.3									*10.5	*10.5	13.6	
	—2 m				45.8	*46.8	30.4	*34.3	21.5	*25.3											
	—4 m	*53.1	*53.1	*41.4	*41.4	*30.5	*30.5														
	—6 m			*30.3	*30.3																
Boom 8.70 m Arm 4.00 m Bucket PCSA : 9.6 m³ CECE : 8.4 m³ Shoes 800 mm	10 m							*16.1	*16.1									*9.84	*9.84	14.4	
	8 m							*21.9	*21.9									*9.69	*9.69	15.1	
	6 m					*26.7	*26.7	*23.2	*23.2									*9.90	*9.90	15.4	
	4 m			*41.9	*41.9	*30.9	*30.9	*25.3	*25.3	*17.0	*17.0							*10.4	*10.4	15.5	
	2 m					*34.7	*34.7	26.4	*27.4	19.6	*19.7							*11.4	*11.4	15.2	
	0 (Ground)			49.7	*50.6	34.5	*37.0	25.3	*28.7									*13.0	*13.0	14.5	
	—2 m			49.1	*49.5	33.6	*37.1	24.7	*28.5									*14.9	*14.9	13.4	
	—4 m	*48.6	*48.6	*45.4	*45.4	33.7	*34.5	25.0	*25.3												
	—6 m	*46.7	*46.7	*36.8	*36.8	*26.8	*26.8														
Boom 8.70 m Arm 5.50 m Bucket PCSA : 8.0 m³ CECE : 7.0 m³ Shoes 800 mm	10 m																	*10.1	*10.1	15.9	
	8 m									*17.6	*17.6							*10.0	*10.0	16.6	
	6 m							*19.6	*19.6	*18.2	*18.2							*10.2	*10.2	16.9	
	4 m			*34.7	*34.7	*26.6	*26.6	*22.2	*22.2	*19.5	*19.5							*10.8	*10.8	16.9	
	2 m			*42.9	*42.9	*31.2	*31.2	*24.8	*24.8	20.0	*20.9							*11.7	*11.7	16.6	
	0 (Ground)			*48.0	*48.0	*34.7	*34.7	25.6	*27.0	19.1	*22.1							*13.1	*13.1	16.0	
	—2 m	*52.3	*52.3	48.7	*49.7	33.5	*36.5	24.5	*28.1	18.5	*22.3							*15.4	*15.4	15.1	
	—4 m	*56.4	*56.4	*48.2	*48.2	32.9	*36.0	24.1	*27.5									*14.1	*14.1	13.7	
	—6 m	*58.3	*58.3	*43.3	*43.3	*32.5	*32.5	*23.5	*23.5												
—8 m	*43.6	*43.6	*32.9	*32.9	*22.8	*22.8															

EX1900-5

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	Load radius																At max. reach		
		6 m		8 m		10 m		12 m		14 m		16 m		18 m		20 m				
																				meter
Boom 11.80 m Arm 4.00 m Bucket PCSA : 6.0 m ³ CECE : 5.3 m ³ Shoes 800 mm	12 m									*13.6	*13.6							*12.3	*12.3	17.0
	10 m									*13.6	*13.6							*12.1	*12.1	17.9
	8 m							*16.8	*16.8	*14.5	*14.5	*13.5	*13.5					11.3	*11.9	18.5
	6 m							*19.2	*19.2	*15.9	*15.9	*14.0	*14.0					10.5	*11.9	18.8
	4 m							*21.7	*21.7	*17.4	*17.4	14.4	*14.8					10.1	*12.1	18.8
	2 m							22.9	*23.7	17.7	*18.7	13.7	*15.7					10.2	*12.5	18.6
	0 (Ground)							21.9	*24.9	16.8	*19.7	13.1	*16.3					10.7	*13.2	18.1
	-2 m							21.5	*25.3	16.4	*20.1	13.0	*16.4					12.0	*13.8	17.3
	-4 m					*29.8	*31.1	21.6	*24.7	16.5	*19.7							*13.6	*13.6	16.2
	-6 m			*34.7	*34.7	*28.6	*28.6	22.2	*22.9	17.2	*17.9							*12.7	*12.7	14.6
	-8 m			*29.5	*29.5	*24.3	*24.3	*18.9	*18.9											
	-10 m																			
Boom 11.80 m Arm 5.50 m Bucket PCSA : 4.8 m ³ CECE : 4.2 m ³ Shoes 800 mm	14 m																	*10.0	*10.0	17.6
	12 m											*10.8	*10.8					*9.91	*9.91	18.7
	10 m											*10.4	*10.4					*9.93	*9.93	19.5
	8 m									*12.0	*12.0	*10.9	*10.9	*10.7	*10.7			*10.0	*10.0	20.0
	6 m							*16.2	*16.2	*13.4	*13.4	*11.7	*11.7	*10.9	*10.9			9.39	*10.2	20.2
	4 m							*18.8	*18.8	*15.1	*15.1	*12.8	*12.8	*11.4	*11.4			9.05	*10.5	20.3
	2 m							*21.1	*21.1	*16.7	*16.7	*13.8	*13.8	11.4	*12.0			9.08	*10.8	20.1
	0 (Ground)							*22.9	*22.9	*18.0	*18.0	14.1	*14.7	10.9	*12.5			9.49	*11.1	19.6
	-2 m							22.6	*23.9	17.4	*18.8	13.6	*15.3	10.8	*12.6			10.3	*11.3	18.9
	-4 m					30.5	*31.1	22.3	*24.1	17.1	*19.1	13.4	*15.3					*11.4	*11.4	17.9
	-6 m	*34.8	*34.8	*38.0	*38.0	*29.7	*29.7	22.6	*23.3	17.3	*18.4	13.9	*14.2					*11.1	*11.1	16.5
	-8 m	*42.4	*42.4	*33.9	*33.9	*26.9	*26.9	*21.1	*21.1	*16.2	*16.2							*10.0	*10.0	14.6
	-10 m			*27.4	*27.4	*21.8	*21.8	*16.2	*16.2											
Boom 11.80 m Arm 7.00 m Bucket PCSA : 4.4 m ³ CECE : 3.8 m ³ Shoes 800 mm	14 m																	*8.11	*8.11	18.8
	12 m																	*7.68	*7.68	19.8
	10 m													*9.95	*9.95			*7.44	*7.44	20.5
	8 m											*10.6	*10.6	*10.2	*10.2			*7.37	*7.37	21.0
	6 m									*13.2	*13.2	*11.7	*11.7	*10.8	*10.8	*9.62	*9.62	*7.45	*7.45	21.3
	4 m							*18.2	*18.2	*15.0	*15.0	*12.9	*12.9	*11.6	*11.6	10.5	*10.9	*7.68	*7.68	21.3
	2 m							*20.9	*20.9	*16.8	*16.8	*14.2	*14.2	*12.4	*12.4	10.1	*11.3	*8.07	*8.07	21.1
	0 (Ground)							*23.2	*23.2	*18.4	*18.4	*15.3	*15.3	12.5	*13.2	9.87	*11.2	*8.64	*8.64	20.8
	-2 m							24.5	*24.7	19.0	*19.7	15.0	*16.2	12.0	*13.7			*9.46	*9.46	20.1
	-4 m					31.9	*33.0	23.8	*25.5	18.4	*20.4	14.6	*16.7	11.8	*13.9			*10.6	*10.6	19.2
	-6 m	*27.4	*27.4	*33.0	*33.0	31.9	*32.5	23.6	*25.5	18.3	*20.4	14.6	*16.6	12.1	*13.0			*12.0	*12.0	18.0
	-8 m	*29.7	*29.7	*37.2	*37.2	*30.8	*30.8	24.0	*24.3	18.6	*19.4	15.1	*15.1					*11.9	*11.9	16.4
	-10 m	*34.6	*34.6	*34.8	*34.8	*27.4	*27.4	*21.5	*21.5	*16.4	*16.4									
	-12 m			*26.8	*26.8	*20.9	*20.9	*15.1	*15.1											

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.

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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.

DKAEX1900HT (03-01)