

HITACHI

NEW
SuperEX
EX100

Rated engine HP: 57 kW (78 PS)

Operating weight

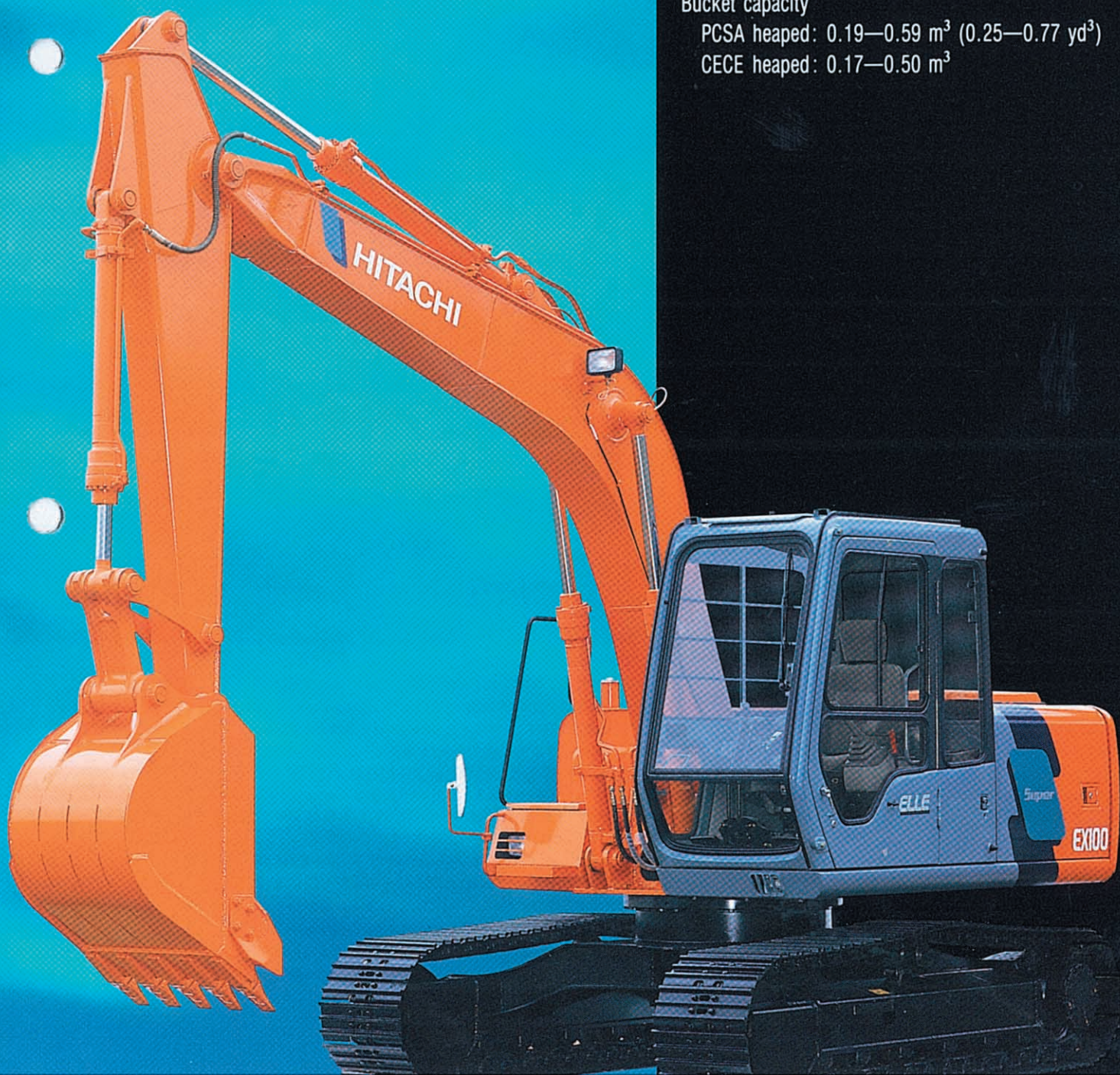
EX100-3: 10 700 kg (23 600 lb)

EX100M-3: 12 200 kg (26 900 lb)

Bucket capacity

PCSA heaped: 0.19—0.59 m³ (0.25—0.77 yd³)

CECE heaped: 0.17—0.50 m³



QUICK RESPONSE

Smooth, rapid movements and efficient level retraction. The Hitachi EX100 intelligent hydraulic excavator comes with a new level of productivity never before available. The front attachment works fast and smoothly, with quick response to the operator's will. It moves up and down matching the quick-action control lever. That eases complicated tasks, such as slope finishing and grading. The renowned EX100 also permits direct access to the skill of an experienced operator thanks to numerous advanced features. The EX100 is Hitachi's answer to the needs of increasingly tough construction jobs.



• **More Production with Less Fuel:** Production is improved, but not at the cost of fuel consumption. The E (Economy) mode is further refined for ease of use, making possible powerful operation like that of the P (Power) mode.

• **Designed for Versatility:** The EX100 is designed for a wide range of applications. Versatility, in other words. The key is the use of an assortment of front attachments. With the extra port, optimum flow is delivered to optional front attachments.

• **More Production with More Power:** Excavation and dumping speeds are increased by increasing the pump delivery flow.

• **Efficient Slope Finishing and Grading:** Efficient level retraction is the big feature. This allows quick, smooth finishing works, like slope finishing and grading.

• **Rapid, Sure Response:** Hitachi design focuses on rapid, sure response to job needs. Control levers and boom respond quickly and agilely, well matching the operator's will. The result is dynamic tamping and rolling.

• **Advanced Cab Mount:** The fluid-filled elastic mount supporting the cab dampens shocks and vibration significantly. Also, the cab bed is rugged, using thick plates.

• **Comfortable Suspension Seat:** The comfort-designed operator seat keeps the operator feeling relaxed. The rugged I-shaped linkage suspension and cold-foamed seat cushions reduce operator fatigue greatly for seating comfort.

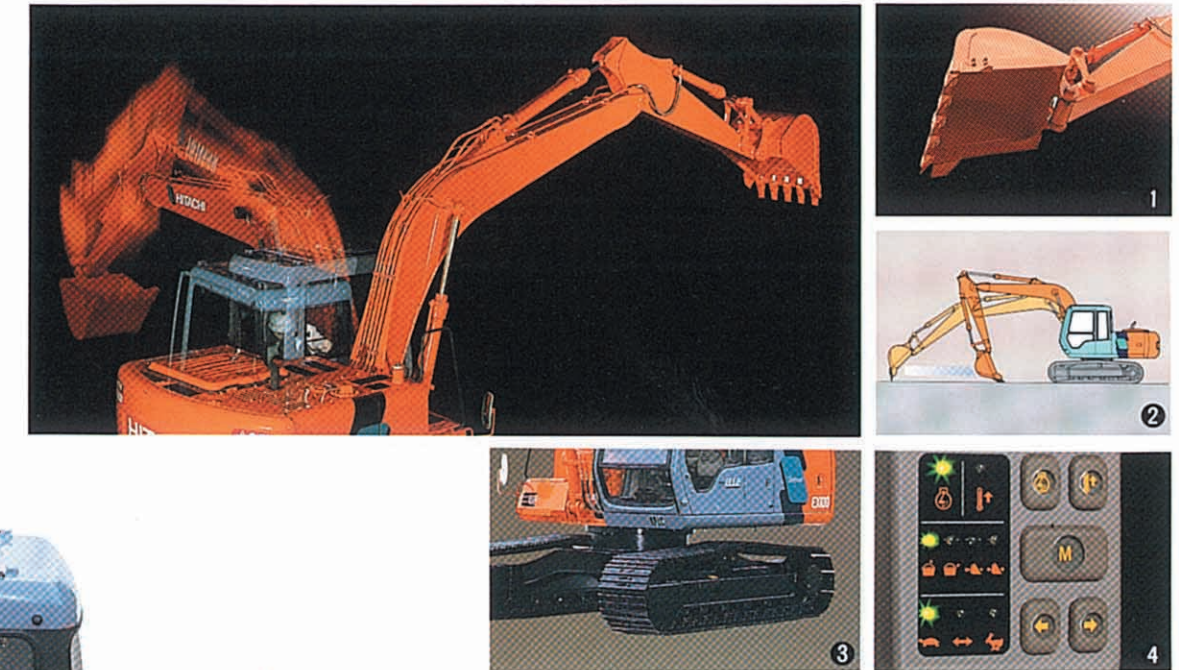
• **Sliding Cockpit:** Armrest angle can be adjusted steplessly to operator's proportions, with a choice of two control lever heights for operator comfort and convenience.

• **Smooth Ride:** Smooth ride and steering are achieved with the improved travel shockless relief valve and damper. Shocks at start and stop of travel are dampened dramatically, too.

• **Operator-first Design:** Operator first is the key cab design concept. Seat belt, and pilot-control shutoff lever, which prevent misoperation when getting in and out of the cab, are provided as standard equipment.

• **Tested Durability:** The machine, before its launch, underwent a number of stringent low-temperature and endurance tests, demonstrating Hitachi's traditional durability.

Impressive Versatility



① **Advanced Hydraulics for Productivity:** Pump delivery flow can be adjusted to the load for efficient digging and dumping onto off-highway trucks. The result: production is up 4% to 5% without increase in fuel consumption (compared to our conventional model).

② **Efficient Slope Finishing and Grading:** Rapid, smooth level retraction can be achieved with the help of the boom pilot sensor. This allows efficient slope finishing and grading during overburden stripping, road maintenance and land grading.

③ **Rapid Response:** Even a slight movement of the control lever is converted into brisk up-and-down movement of the boom. This means both movements are well matched. This advantage is effective in complex operations like tamping in civil engineering jobs and land leveling.

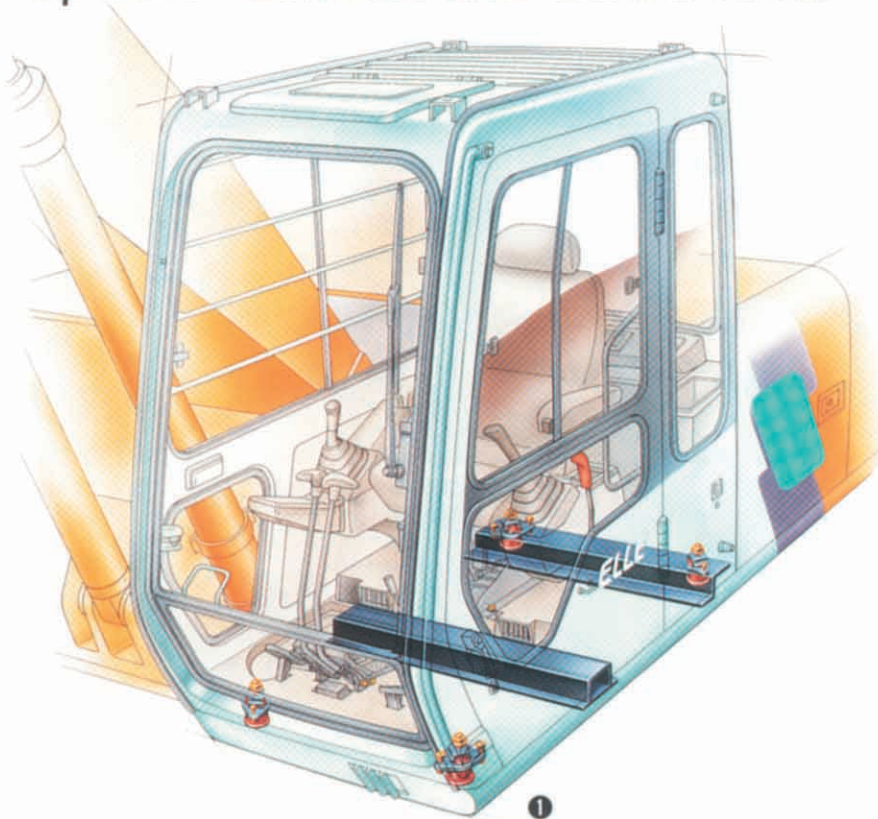
④ **Smooth Ride:** The improved travel shockless relief valve and damper reduce shocks at start and stop of travel. The rugged cab bed and fluid-filled elastic mount help reduce shocks and vibration during travel. These designs ensure smooth ride, reducing operator fatigue.

⑤ **Work Mode Selector:** With the work mode selector, you can select an optimum mode from four work modes — general purpose, trenching, grading and precision modes — to suit job requirements, at one touch of a switch.

• **Versatility means productivity:** The EX100 is designed keeping in mind versatility, operating efficiency and production, using a variety of front attachments. What's more, optional attachments are applicable through the extra port for added versatility.

- Improved E-P (Engine-Pump) control system to save energy.
- Smoothly combined operations and pleasant control through the ELLE (Electronic Load-sensing Excavation) system.
- Swing dampener mechanism to eliminate coasting at stop of swing.
- Auto idle to save energy when not in operation.
- Shockless valve absorbs shocks when stopping the front.
- Holding valve prevents lowering of the boom and arm under gravity.

Operator Comfort and Convenience



● **Operator comfort and convenience are the top considerations:** boosting productivity in other words. With the fluid-filled elastic mount, the operator cab is insulated from shocks and vibration.

The adjustable suspension seat provides seating comfort. The seat and control levers glide together or separately to accommodate the proportions of the operator, enhancing operating convenience and reducing operator's fatigue.

① **Shock-dampened, Quiet Cab:** Operator comfort is ensured with the fluid-filled elastic mount that effectively dampens shocks and vibration, and sturdy cab bed using thick plates. This brings a smooth ride, protected from shocks and vibration.

② **Sliding Cockpit:** The operator seat, termed the sliding cockpit, glides separately, or together with control levers and monitor panel, adjusting to the proportions of any operator.

③ **Adjustable Suspension Seat:** Seating comfort is further enhanced through the use of I-shaped linkage suspension and cold-foamed seat cushions. This keeps the operator feeling relaxed.

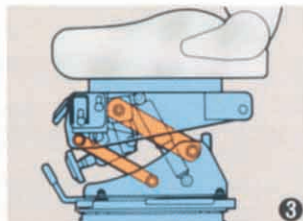
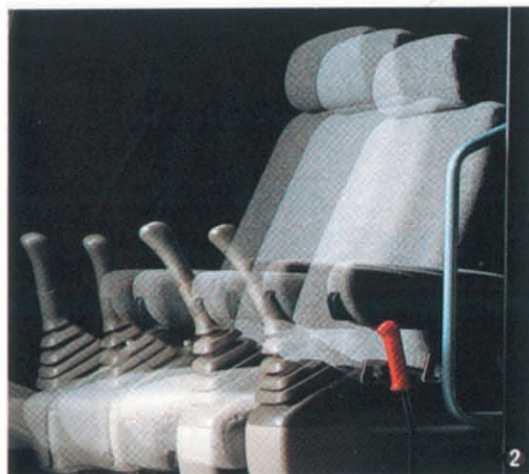
④ **Lever Height/Armrest Angle Adjust Mechanisms:** Armrest angle can be adjusted steplessly to operator's proportions, with a choice of two control lever heights for operator comfort and convenience.

⑤ **Ergonomically Designed Control Levers:** Pleasant human-touch control is enhanced. Control levers can be shifted with less effort, and lever grips are ergonomically designed.

⑥ **Easy-to-Read Monitor and Finger-touch Switches:** The monitor is curved for easy reading. Touch switches are resin-molded for dust protection. Each operation can be controlled at the touch of a finger.

⑦ **Large Curved Rear Window:** The cab rear window glass is curved and large enough to give good rear visibility. Low-profile engine hood helps increase rear visibility.

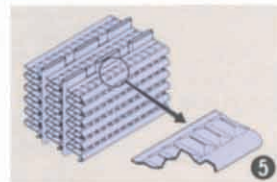
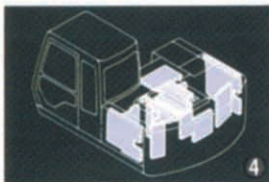
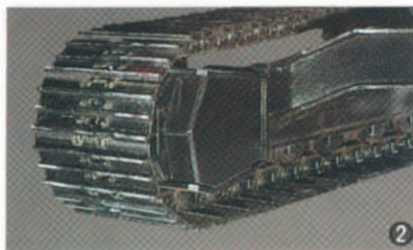
● **Air Conditioner (Optional):** An air conditioner, using a freon substitute, maintains the operator comfort all year around, increasing operating efficiency.



- Window washer and intermittent wiper keep the front window clean.
- The front window is spring-assisted for easy storing in the cab.
- Auto-tuning AM radio with digital clock is standard equipment as in automobiles.



The Edge of Mechatronics



- Sturdy X-type track frame.
- Large reinforced trak links with pin seals.
- Working light provided at the bottom of cab for night-shift work.
- Positive swing parking brake.
- Quick warm-up system for pilot circuit.
- Bucket clearance adjust mechanism.
- Hydraulic warm-up control system for engine and hydraulic oil.
- Ample utility space.

● **From the Hitachi EX100, you'll get more than you expect.** The secret is the leading edge of mechatronics, built up through Hitachi's high technologies and years of experience. Hitachi expertise always meets job requirements and often exceeds your expectations.

Hitachi engineers are constantly addressing job needs ever before they are demanded. That's the way of Hitachi's design approach. The Hitachi EX100 is the fruit of this design approach.

① **Rugged D-section Frame Skirt:** Rugged D-section frame skirt, proven on the EX series, provides high resistance to deformation.

② **Advanced Travel Mechanism:** Three travel speeds — fast, intermediate and slow — can be selected to suit job conditions. Compact travel motors and piping are logically arranged inside the track frame for unobstructed travel on rough terrain.

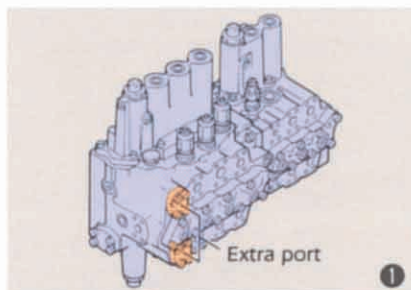
③ **Seat Belt Provided as Standard:** Seat belt is provided as standard equipment.

④ **Environment-Friendly Low Noise Design:** Machine body is all round-pressed for increased rigidity to avoid resonance. All noise sources are boxed in, using sound-absorbing lining that repels oil. In the E mode, engine speed automatically drops to reduce sound.

⑤ **Wave-finned Radiator to Avoid Clogging:** Radiator is fitted with waved fins to prevent clogging and ensure ease of maintenance.

⑥ **Dr. EX Self-diagnostic System:** A portable self-diagnostic system, Dr. EX, provides instant status check of machine conditions, including engine RPM, hydraulic pressure, oil flow, and electrical systems. Dr. EX enables Hitachi servicemen to service and inspect the machine instantly.

Versatility Means Productivity.



① **Extra Port that Sets Optimum Flow to Optional Attachment:** The extra port is a hydraulic source for setting and delivering the optimum oil flow to optional attachment that is well matched with the front attachment.

② **Attachment Mode Optionally Available:** The attachment mode can be selected with the attachment selection switch according to the attachment used. This makes combined operation smooth.



ENGINE

Model	ISUZU 4BD1
Type	4-cycle water-cooled, direct injection
No. of cylinders	4
Rated flywheel	57 kW (78 PS) at 2 300 min ⁻¹ (rpm)
horsepower (DIN 6271, net)	
Rated flywheel	54 kW (72 HP) at 2 300 min ⁻¹ (rpm)
horsepower (SAE J1349, net)	
Maximum torque	235 N.m (24.0 kgf.m, 174 lbf. ft)
	at 1 600 rpm
Piston displacement	3.856 L (235 in ³)
Bore and stroke	102 mm × 118 mm (4.02" × 4.65")
Batteries	2 × 12 V, 65 AH
Governor	Mechanical, speed control with stepping motor



HYDRAULIC SYSTEM

ELLE (Electronic Load-sensing Excavation) system designed for job efficiency and controllability.

- Load-sensing system
- Flow dividing control system
- Work mode selector
 - General-purpose mode / Trenching mode
 - Grading mode / Precision mode

Power selector designed for maximum productivity and fuel savings.

- Engine speed sensing system.
 - P (Power) mode / E (Economy) mode
 - L (Low speed) mode / I (Low idle) mode

Main pump	1 variable displacement axial piston pump
Maximum oil flow	1 × 184 L/min (48.5 US gpm, 40.4 Imp gpm)
Pilot pump	1 gear pump
Max. oil flow	38.6 L/min (10.2 US gpm, 8.5 Imp gpm)

Hydraulic Motors

Travel	2 variable displacement axial piston motors
Swing	1 axial piston motor

Relief Valve Settings

Implement circuit	34.3 MPa (350 kgf/cm ² , 4 980 psi)
Swing circuit	34.8 MPa (355 kgf/cm ² , 5 050 psi)
Travel circuit	34.3 MPa (350 kgf/cm ² , 4 980 psi)
Pilot circuit	4.9 MPa (50 kgf/cm ² , 710 psi)

Hydraulic Cylinders

High-strength piston rods and tubes. Cylinder cushion mechanisms provided in all cylinders to absorb shocks at stroke ends.

Dimensions

	Qty.	Bore	Rod diameter
Boom	2	95 mm (3.74")	70 mm (2.76")
Arm	1	105 mm (4.13")	75 mm (2.95")
Bucket	1	95 mm (3.74")	65 mm (2.56")

Hydraulic Filters

Hydraulic circuits use high-quality hydraulic filters. A suction filter is incorporated in the suction line, and 10 μm full-flow filters in the return line and swing/travel motor drain lines.



CONTROLS

Pilot controls. Hitachi's original shockless valve and quick warm-up system built in the pilot circuit. Hydraulic warm-up control system for engine and hydraulic oil. Multi selection lever with rotary valve is optionally available for selection of control lever direction.

Implement levers	2
Travel levers with pedals	2



UPPERSTRUCTURE

Revolving Frame

Welded sturdy box construction, using heavy-gauge steel plates for ruggedness. D-section frame for resistance to deformation.

Swing Mechanism

Axial piston motor with planetary reduction gear is bathed in oil. Swing circle is single-row, shear-type ball bearing with induction-hardened internal gear. Internal gear and pinion gear are immersed in lubricant. Swing parking brake is spring-set/hydraulic-released disc type. Swing dampener valve in the swing circuit prevents coasting when stopping swing. Swing cushion valve built in swing motor absorbs shocks when stopping swing.

Swing speed	11.0 min ⁻¹ (rpm)
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Operator's Cab

Independent roomy cab, 940 mm (37") wide by 1 620 mm (64") high, conforming to ISO* Standards. Reinforced glass windows on 4 sides for visibility. Front windows (upper and lower) are openable and spring-assisted for easy storing in the cab and absorbing shocks during lowering. Adjustable, suspension seat with armrests; movable with or without control levers and monitor panel.

* International Standard Organization



UNDERCARRIAGE

Tracks

Tractor-type undercarriage. Welded track frame, using carefully selected materials. Side frame welded to track frame. Lubricated track rollers, idlers, and sprockets with floating seals.

Track shoes with triple grousers made of induction-hardened rolled alloy. Flat and triangular shoes are also available. Heat-treated connecting pins with dirt seals. Hydraulic (grease) track adjusters with shock-absorbing recoil springs.

Numbers of Rollers and Shoes on Each Side

Upper rollers	1: EX100-3 2: EX100M-3
Lower rollers	6: EX100-3 7: EX100M-3
Track shoes	41: EX100-3 47: EX100M-3

Traction Device

Each track driven by 2-speed axial piston motor through planetary reduction gear for counterrotation of the tracks. Sprockets are replaceable. Parking brake is spring-set/hydraulic-released disc type. Travel shockless relief valve built in travel motor absorbs shocks when stopping travel.

Automatic transmission system: High—Medium.

Travel speeds

EX100-3	High: 0 to 5.5 km/h (3.4 mph)
	Medium: 0 to 3.9 km/h (2.4 mph)
	Low: 0 to 2.2 km/h (1.4 mph)
EX100M-3	High: 0 to 4.4 km/h (2.7 mph)
	Medium: 0 to 2.7 km/h (1.7 mph)
	Low: 0 to 2.0 km/h (1.2 mph)

Maximum traction force

EX100-3	84.3 kN (8 600 kgf, 18 960 lbf)
EX100M-3	114.7 kN (11 700 kgf, 25 790 lbf)
Gradeability	35° (70%) continuous

WEIGHTS AND GROUND PRESSURE

Equipped with 4.27 m (14'0") boom, 2.26 m (7'5") arm and 0.46 m³ (0.60 yd³: PCSA heaped) bucket.

EX100-3

Shoe type	Shoe width	Standard undercarriage	
		Operating weight	Ground pressure
Triple grouser	500 mm (20")	10 700 kg (23 600 lb)	36.3 kPa (0.37 kgf/cm ² , 5.26 psi)
	600 mm (24")	11 000 kg (24 250 lb)	31.4 kPa (0.32 kgf/cm ² , 4.55 psi)
	700 mm (28")	11 100 kg (24 500 lb)	27.5 kPa (0.28 kgf/cm ² , 3.98 psi)
Rubber	500 mm (20")	10 700 kg (23 600 lb)	36.3 kPa (0.37 kgf/cm ² , 5.26 psi)
Flat	510 mm (20")	11 200 kg (24 700 lb)	37.3 kPa (0.38 kgf/cm ² , 5.40 psi)
Triangular	700 mm (28")	11 000 kg (24 250 lb)	27.5 kPa (0.28 kgf/cm ² , 3.98 psi)

EX100M-3

Shoe type	Shoe width	Marsh type undercarriage	
		Operating weight	Ground pressure
Triple grouser	700 mm (28")	12 200 kg (26 900 lb)	26.5 kPa (0.27 kgf/cm ² , 3.84 psi)
Triple high grouser	960 mm (38")	13 300 kg (29 300 lb)	20.6 kPa (0.21 kgf/cm ² , 2.99 psi)
Triangular	760 mm (30")	12 200 kg (26 900 lb)	24.5 kPa (0.25 kgf/cm ² , 3.56 psi)
	960 mm (38")	12 900 kg (28 400 lb)	20.6 kPa (0.21 kgf/cm ² , 2.99 psi)

EX100-3 with Off-set front: Equipped with 1.96 m (6'5") arm and 0.46 m³ (0.60 cu yd: PCSA heaped) bucket.

Shoe type	Shoe width	Standard undercarriage	
		Operating weight	Ground pressure
Triple grouser	500 mm (20")	11 500 kg (25 400 lb)	39.2 kPa (0.40 kgf/cm ² , 5.69 psi)

Operating weight implies total weight of the basic machine plus 1 750 kg (3 860 lb) counterweight and triple grouser shoes, excluding front-end attachment.

EX100-3..... 8 700 kg (19 200 lb)
with 500 mm (20") shoes
EX100M-3 10 200 kg (22 500 lb)
with 700 mm (28") shoes

Buckets

Capacity		Width		No. of teeth	Weight	Recommendation					
PCSA heaped	CECE heaped	Without side cutters	With side cutters			EX100-3			EX100M-3		
						1.96 m (6'5") arm	2.26 m (7'5") arm	2.81 m (9'3") arm	1.96 m (6'5") arm	2.26 m (7'5") arm	2.81 m (9'3") arm
0.19 m³ (0.25 yd³)	0.17 m³	450 mm (18")	550 mm (22")	3	240 kg (530 lb)	⊙	⊙	⊙	⊙	⊙	⊙
0.30 m³ (0.39 yd³)	0.25 m³	580 mm (23")	700 mm (28")	3	280 kg (620 lb)	⊙	⊙	⊙	⊙	⊙	⊙
0.40 m³ (0.52 yd³)	0.33 m³	680 mm (27")	800 mm (31")	4	320 kg (710 lb)	⊙	⊙	⊙	⊙	⊙	⊙
0.46 m³ (0.60 yd³)	0.40 m³	850 mm (33")	970 mm (38")	5	370 kg (820 lb)	⊙	⊙	⊙*	⊙	⊙	⊙
0.55 m³ (0.72 yd³)	0.45 m³	890 mm (35")	1 010 mm (40")	5	390 kg (860 lb)	⊙	○	—	⊙	○	○
0.59 m³ (0.77 yd³)	0.50 m³	950 mm (37")	1 070 mm (42")	5	410 kg (900 lb)	○	□	—	○	□	—
One-point ripper				1	320 kg (710 lb)	●	●	—	—	—	—
Clamshell bucket: 0.30 m³ (0.39 yd³: CECE heaped), Width 560 mm (22")				6	690 kg (1 520 lb)	⊙	⊙	—	⊙	⊙	—
Slope-finishing blade: Width 1 000 mm (39"), Length 1 600 mm (63")					475 kg (1 050 lb)	◇	◇	◇	◇	◇	◇

* With 700 mm (28") shoe only

Buckets (Off-set front and Rubber crawler)

Capacity		Width		No. of teeth	Weight	Recommendation			
PCSA heaped	CECE heaped	Without side cutters	With side cutters			EX100-3 with off-set front		EX100-3 with Rubber crawler	
						1.96 m (6'5") arm		1.96 m (6'5") arm	2.26 m (7'5") arm
0.19 m ³ (0.25 yd ³)	0.17 m ³	450 mm (18")	550 mm (22")	3	240 kg (530 lb)	⊙	⊙	⊙	⊙
0.30 m ³ (0.39 yd ³)	0.25 m ³	580 mm (23")	700 mm (28")	3	280 kg (620 lb)	⊙	⊙	⊙	⊙
0.40 m ³ (0.52 yd ³)	0.33 m ³	680 mm (27")	800 mm (31")	4	320 kg (710 lb)	⊙	⊙	⊙	⊙
0.46 m ³ (0.60 yd ³)	0.40 m ³	850 mm (33")	970 mm (38")	5	370 kg (820 lb)	⊙	⊙	⊙	○
0.55 m ³ (0.72 yd ³)	0.45 m ³	890 mm (35")	1 010 mm (40")	5	390 kg (860 lb)	—	⊙	○	—
0.59 m ³ (0.77 yd ³)	0.50 m ³	950 mm (37")	1 070 mm (42")	5	410 kg (900 lb)	—	○	□	—
Clamshell bucket: 0.30 m ³ (0.39 yd ³ : CECE heaped), Width 560 mm (22")					6	690 kg (1 520 lb)	—	⊙	—
Slope-finishing blade: Width 1 000 mm (39"), Length 1 600 mm (63")					475 kg (1 050 lb)	—	◇	◇	◇

⊙ Suitable for materials with density of 2 000 kg/m³ (3 370 lb/yd³) or less
 ○ Suitable for materials with density of 1 600 kg/m³ (2 700 lb/yd³) or less
 ◇ Suitable for materials with density of 1 100 kg/m³ (1 850 lb/yd³) or less

● Heavy-duty service
 ◇ Slope-finishing service
 — Not recommended



SERVICE REFILL CAPACITIES

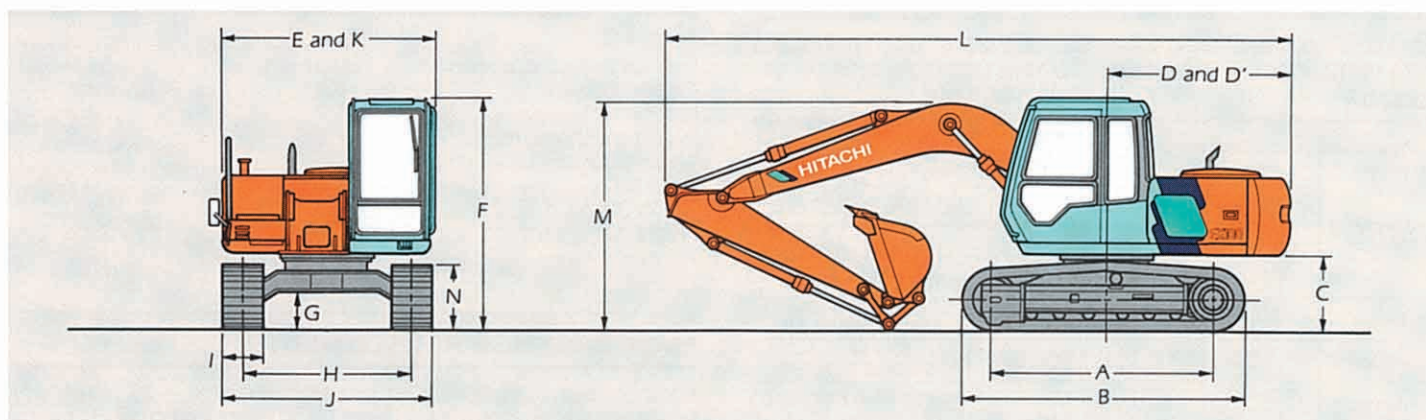
	liters	US gal	Imp gal
Fuel tank	250.0	66.0	55.0
Engine coolant	16.4	4.3	3.6
Engine oil	14.7	3.9	3.2
Swing mechanism	4.0	1.1	0.9
Travel final device (each side)			
EX100-3.....	3.0	0.8	0.7
EX100M-3	4.4	1.2	1.0
Hydraulic system	130.0	34.3	28.6
Hydraulic tank	69.0	18.2	15.2



BACKHOE ATTACHMENTS

Boom and arms are of welded, box-section design. 4.27 m (14'0") boom, and 1.96 m (6'5"), 2.26 m (7'5") and 2.81 m (9'3") arms are available.

Bucket is of welded steel structure. Side clearance adjust mechanism provided on the bucket joint bracket.

DIMENSIONS


	EX100-3				EX100M-3			
A Distance between tumbler	2 620 mm (8'7")				2 960 mm (9'9")			
B Undercarriage length	3 340 mm (10'11")				3 790 mm (12'5")			
*C Counterweight clearance	890 mm (2'11")				1 070 mm (3'6")			
D Rear-end swing radius	2 130 mm (7'0")				2 130 mm (7'0")			
D' Rear-end length	2 100 mm (6'11")				2 100 mm (6'11")			
E Overall width of upperstructure	2 460 mm (8'1")				2 460 mm (8'1")			
F Overall height of cab	2 700 mm (8'10")				2 880 mm (9'5")			
*G Min. ground clearance	440 mm (1'5")				575 mm (1'11")			
H Track gauge	1 990 mm (6'6")				2 040 mm (6'8")			
I Standard track shoe width	G500 mm (20")	G600 mm (24")	G700 mm (28")	F510 mm (20")	G700 mm (28")	T760 mm (30")	H960 mm (38")	
J Undercarriage width	2 490 mm (8'2")	2 590 mm (8'6")	2 690 mm (8'10")	2 500 mm (8'2")	2 740 mm (9'0")	2 800 mm (9'2")	3 000 mm (9'10")	
K Overall width	2 500 mm (8'2")	2 590 mm (8'6")	2 690 mm (8'10")	2 500 mm (8'2")	2 740 mm (9'0")	2 800 mm (9'2")	3 000 mm (9'10")	
L Overall length								
With 1.96 m (6'5") arm	7 180 mm (23'7")				7 170 mm (23'6")			
With 2.26 m (7'5") arm	7 190 mm (23'7")				7 190 mm (23'7")			
With 2.81 m (9'3") arm	7 190 mm (23'7")				7 190 mm (23'7")			
M Overall height of boom								
With 1.96 m (6'5") arm	2 600 mm (8'6")				2 670 mm (8'9")			
With 2.26 m (7'5") arm	2 690 mm (8'10")				2 740 mm (9'0")			
With 2.81 m (9'3") arm	**2 680 mm (8'10")				**2 670 mm (8'9")			
N Track height								
With triple grouser shoes	790 mm (2'7")				900 mm (2'11")			

* Excluding track shoe lug.

** This dimensions is shown in the transportation hole position of the arm

G: Triple grouser shoe

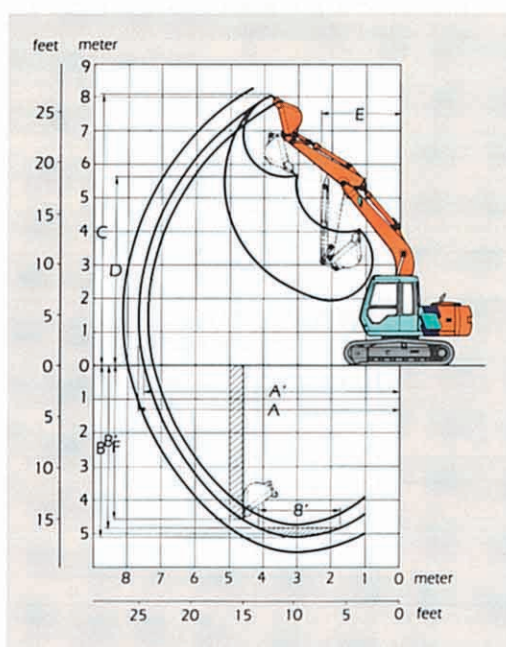
T: Triangular shoe

F: Flat shoe

H: Triple high grouser shoe

WORKING RANGES

Unit: mm (ft)

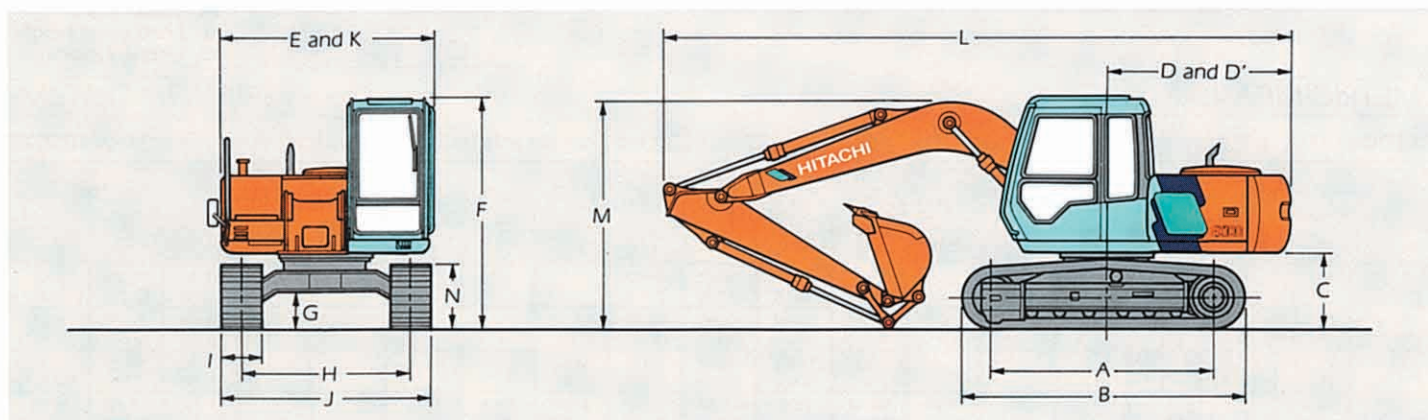


	EX100-3			EX100M-3		
Arm length	1.96 m (6'5")	2.26 m (7'5")	2.81 m (9'3")	1.96 m (6'5")	2.26 m (7'5")	2.81 m (9'3")
A Max. digging reach	7 430 (24'5")	7 700 (25'3")	8 180 (26'10")	7 430 (24'5")	7 700 (25'3")	8 180 (26'10")
A' Max. digging reach (on ground)	7 290 (23'11")	7 560 (24'10")	8 050 (26'5")	7 250 (23'9")	7 520 (24'8")	8 010 (26'3")
B Max. digging depth	4 780 (15'8")	5 080 (16'8")	5 630 (18'6")	4 600 (15'1")	4 900 (16'1")	5 450 (17'11")
B' Max. digging depth (8' level)	4 520 (14'10")	4 840 (15'11")	5 420 (17'9")	4 340 (14'3")	4 660 (15'3")	5 240 (17'2")
C Max. cutting height	7 850 (25'9")	8 030 (26'4")	8 250 (27'1")	8 030 (26'4")	8 210 (26'11")	8 430 (27'8")
D Max. dumping height	5 460 (17'11")	5 630 (18'6")	5 870 (19'3")	5 640 (18'6")	5 810 (19'1")	6 050 (19'10")
E Min. swing radius	2 360 (7'9")	2 390 (7'10")	2 630 (8'8")	2 360 (7'9")	2 390 (7'10")	2 630 (8'8")
F Max. vertical wall	4 320 (14'2")	4 620 (15'2")	5 100 (16'9")	4 140 (13'7")	4 440 (14'7")	4 920 (16'2")
Bucket digging force	78.5 kN (8 000 kgf, 17 600 lbf)			78.5 kN (8 000 kgf, 17 600 lbf)		
Arm crowd force	57.9 kN (5 900 kgf, 13 000 lbf)	53.0 kN (5 400 kgf, 11 900 lbf)	47.1 kN (4 800 kgf, 10 600 lbf)	57.9 kN (5 900 kgf, 13 000 lbf)	53.0 kN (5 400 kgf, 11 900 lbf)	47.1 kN (4 800 kgf, 10 600 lbf)

Excluding track shoe lug

EX100-3 with Off-set front/EX100-3 with Rubber crawler

DIMENSIONS



	EX100-3 with Off-set front	EX100-3 with Rubber crawler
A Distance between tumbles	2 620 mm (8'7")	2 630 mm (8'8")
B Undercarriage length	3 340 mm (10'11")	3 370 mm (11'1")
*C Counterweight clearance	890 mm (2'11")	930 mm (3'1")
D Rear-end swing radius	2 130 mm (7'0")	2 130 mm (7'0")
D' Rear-end length	2 100 mm (6'11")	2 100 mm (6'11")
E Overall width of upperstructure	2 460 mm (8'1")	2 460 mm (8'1")
F Overall height of cab	2 700 mm (8'10")	2 720 mm (8'11")
*G Min. ground clearance	440 mm (1'5")	480 mm (1'7")
H Track gauge	1 990 mm (6'6")	1 990 mm (6'6")
I Standard track shoe width	G500 mm (20")	R 500 mm (20")
J Undercarriage width	2 490 mm (8'2")	2 490 mm (8'2")
K Overall width	2 500 mm (8'2")	2 500 mm (8'2")
L Overall length		
With 1.96 m (6'5") arm	7 330 mm (24'1")	7 180 mm (23'7")
With 2.26 m (7'5") arm	—	7 190 mm (23'7")
With 2.81 m (9'3") arm	—	7 190 mm (23'7")
M Overall height of boom		
With 1.96 m (6'5") arm	2 960 mm (9'9")	2 600 mm (8'6")
With 2.26 m (7'5") arm	—	2 690 mm (8'10")
With 2.81 m (9'3") arm	—	** 2 680 mm (8'10")
N Track height		
With triple grouser shoe	790 mm (2'7")	

*Excluding track shoe lug.

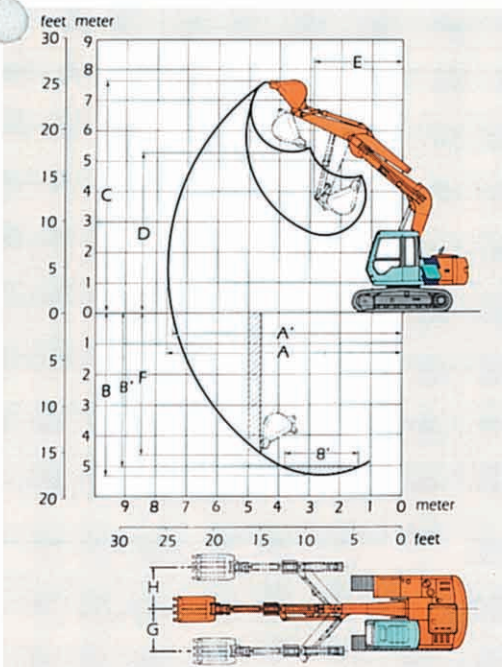
**This dimensions is shown in the transportation hole position of the arm

G: Triple grouser shoe

R: Rubber crawler

WORKING RANGES

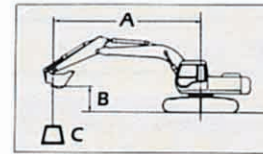
Unit: mm (ft in)



	EX100-3 with Off-set front			EX100-3 with Rubber crawler		
Arm length	1.96 m (6'5")			1.96 m (6'5")	2.26 m (7'5")	2.81 m (9'3")
Off-set distance	0 m	Max.	Right-side priority position	—	—	—
A Max. digging reach	7 620 (25'0")	7 090 (23'3")	6 850 (22'6")	7 430 (24'5")	7 700 (25'3")	8 180 (26'10")
A' Max. digging reach (on ground)	7 470 (24'6")	6 930 (22'9")	6 690 (21'11")	7 280 (23'11")	7 550 (24'9")	8 040 (26'5")
B Max. digging depth	5 330 (17'6")	4 790 (15'9")	4 540 (14'11")	4 740 (15'7")	5 040 (16'6")	5 590 (18'4")
B' Max. digging depth (B' level)	5 050 (16'7")	4 510 (14'10")	4 270 (14'0")	4 480 (14'8")	4 800 (15'9")	5 380 (17'8")
C Max. cutting height	7 600 (24'11")	7 260 (23'10")	7 120 (23'4")	7 890 (25'11")	8 070 (26'6")	8 290 (27'2")
D Max. dumping height	5 230 (17'2")	4 890 (16'1")	4 750 (15'7")	5 500 (18'1")	5 670 (18'7")	5 910 (19'5")
E Min. swing radius	2 910 (9'7")	2 460 (8'1")	2 270 (7'5")	2 360 (7'9")	2 390 (7'10")	2 630 (8'8")
F Max. vertical wall	4 680 (15'4")	4 130 (13'7")	3 910 (12'10")	4 280 (14'1")	4 580 (15'0")	5 060 (16'7")
G Left side off-set distance	—	1 300 (4'3")	1 070 (3'6")	—	—	—
H Right side off-set distance	—	1 540 (5'1")	1 770 (5'10")	—	—	—
Bucket digging force	78.5 kN (8 000 kgf, 17 600 lbf)			78.5 kN (8 000 kgf, 17 600 lbf)	78.5 kN (8 000 kgf, 17 600 lbf)	78.5 kN (8 000 kgf, 17 600 lbf)
Arm crowd force	57.9 kN (5 900 kgf, 13 000 lbf)			57.9 kN (5 900 kgf, 13 000 lbf)	53.0 kN (5 400 kgf, 11 900 lbf)	47.1 kN (4 800 kgf, 10 600 lbf)

Excluding track shoe lug.

LIFTING CAPACITIES



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

METRIC MEASURE

EX100-3



Rating over-side or 360 degrees



Rating over-front

Unit: 1 000 kg (1 000 lb)

Conditions	Load point height m (ft in)	Load radius												m (ft in)			At max. reach		
		2 (6'7")		3 (9'10")		4 (13'1")		5 (16'5")		6 (19'8")		7 (23'0")				@ m (ft in)			
Boom 4.27 m (14'0") Arm 1.96 m (6'5") Bucket PCSA: 0.46 m³ (0.60 yd³) CECE: 0.40 m³ Shoes 500 mm (20")	6 (19'8")					*2.27 (5.00)	*2.27 (5.00)							*1.26 (2.78)	*1.26 (2.78)	5.45 (17'11")			
	5 (16'5")					*2.48 (5.47)	*2.48 (5.47)	*2.12 (4.67)	*2.12 (4.67)					*1.18 (2.60)	*1.18 (2.60)	6.21 (20'4")			
	4 (13'1")					*2.70 (5.95)	*2.70 (5.95)	2.17 (4.78)	*2.63 (5.80)					*1.15 (2.54)	*1.15 (2.54)	6.70 (22'0")			
	3 (9'10")			*4.04 (8.91)	*4.04 (8.91)	3.08 (6.79)	*3.26 (7.15)	2.10 (4.63)	2.79 (6.15)	1.51 (3.33)	2.02 (4.45)			1.13 (2.49)	*1.16 (2.56)	6.99 (22'11")			
	2 (6'7")					2.89 (6.37)	3.91 (8.62)	2.01 (4.43)	2.69 (5.93)	1.47 (3.24)	1.98 (4.37)			1.07 (2.36)	*1.20 (2.65)	7.10 (23'4")			
	1 (3'3")					2.72 (6.00)	3.72 (8.20)	1.92 (4.23)	2.60 (5.73)	1.42 (3.13)	1.93 (4.26)			1.07 (2.36)	*1.28 (2.82)	7.04 (23'1")			
	0 (Ground)					2.62 (5.78)	3.61 (7.96)	1.85 (4.08)	2.53 (5.58)	1.38 (3.04)	1.89 (4.17)			1.12 (2.47)	*1.41 (3.11)	6.81 (22'4")			
	-1 (-3'3")			4.15 (9.15)	5.94 (13.1)	2.58 (5.69)	3.57 (7.87)	1.82 (4.01)	2.49 (5.49)	1.36 (3.00)	1.87 (4.12)			1.24 (2.73)	*1.61 (3.55)	6.39 (21'0")			
	-2 (-6'7")	*6.38 (14.1)	*6.38 (14.1)	4.18 (9.22)	5.98 (13.2)	2.58 (5.69)	3.57 (7.87)	1.82 (4.01)	2.49 (5.49)					1.51 (3.33)	*1.95 (4.30)	5.73 (18'10")			
	-3 (-9'10")	*6.56 (14.5)	*6.56 (14.5)	4.26 (9.39)	*5.24 (11.6)	2.63 (5.80)	3.63 (8.00)	1.87 (4.12)	2.54 (5.60)										
Boom 4.27 m (14'0") Arm 2.26 m (7'5") Bucket PCSA: 0.46 m³ (0.60 yd³) CECE: 0.40 m³ Shoes 500 mm (20")	6 (19'8")													*10.8 (23.8)	*10.8 (23.8)	5.81 (19'1")			
	5 (16'5")							*2.20 (4.85)	*2.20 (4.85)					*1.01 (2.23)	*1.01 (2.23)	6.53 (21'5")			
	4 (13'1")							2.20 (4.85)	*2.43 (5.36)	1.55 (3.42)	*1.76 (3.88)			*9.89 (21.8)	*9.89 (21.8)	6.99 (22'11")			
	3 (9'10")			*3.29 (7.25)	*3.29 (7.25)	*3.00 (6.62)	*3.00 (6.62)	2.13 (4.70)	*2.70 (5.95)	1.53 (3.37)	2.04 (4.50)			*1.00 (2.21)	*1.00 (2.21)	7.26 (23'10")			
	2 (6'7")			4.66 (10.3)	*5.21 (11.5)	2.94 (6.48)	*3.76 (8.29)	2.03 (4.48)	2.72 (6.00)	1.48 (3.26)	1.99 (4.39)			1.00 (2.21)	*1.04 (2.29)	7.37 (24'2")			
	1 (3'3")					2.75 (6.06)	3.76 (8.29)	1.93 (4.26)	2.61 (5.76)	1.42 (3.13)	1.93 (4.26)			0.99 (2.18)	*1.11 (2.45)	7.31 (24'0")			
	0 (Ground)			4.15 (9.15)	*4.89 (10.8)	2.63 (5.80)	3.62 (7.98)	1.86 (4.10)	2.53 (5.58)	1.38 (3.04)	1.89 (4.17)			1.03 (2.27)	*1.22 (2.69)	7.10 (23'4")			
	-1 (-3'3")			4.12 (9.08)	5.91 (13.0)	2.57 (5.67)	3.56 (7.85)	1.81 (4.02)	2.48 (5.47)	1.35 (2.98)	1.86 (4.10)			1.14 (2.51)	*1.39 (3.06)	6.70 (22'0")			
	-2 (-6'7")	*5.70 (12.6)	*5.70 (12.6)	4.14 (9.13)	5.93 (13.1)	2.56 (5.64)	3.55 (7.83)	1.80 (3.97)	2.47 (5.45)	1.36 (3.00)	1.86 (4.10)			1.36 (3.00)	*1.68 (3.70)	6.07 (19'11")			
	-3 (-9'10")	*7.37 (16.3)	*7.37 (16.3)	4.21 (9.28)	*5.62 (12.4)	2.60 (5.73)	3.59 (7.92)	1.83 (4.04)	2.50 (5.51)					1.83 (4.04)	*2.24 (4.94)	5.12 (16'10")			
Boom 4.27 m (14'0") Arm 2.81 m (9'3") Bucket PCSA: 0.40 m³ (0.52 yd³) CECE: 0.33 m³ Shoes 500 mm (20")	6 (19'8")							*1.69 (3.73)	*1.69 (3.73)					*0.98 (2.16)	*0.98 (2.16)	6.43 (21'1")			
	5 (16'5")							*1.95 (4.30)	*1.95 (4.30)	*1.40 (3.09)	*1.40 (3.09)			*0.93 (2.05)	*0.93 (2.05)	7.07 (23'2")			
	4 (13'1")							*2.06 (4.54)	*2.06 (4.54)	1.61 (3.55)	*1.94 (4.28)			*0.91 (2.01)	*0.91 (2.01)	7.50 (24'7")			
	3 (9'10")					*2.37 (5.23)	*2.37 (5.23)	2.19 (4.83)	2.36 (5.20)	1.57 (3.46)	2.09 (4.61)	1.15 (2.54)	*1.33 (2.93)	*0.93 (2.05)	*0.93 (2.05)	7.75 (25'5")			
	2 (6'7")			*4.24 (9.35)	*4.24 (9.35)	3.04 (6.70)	*3.27 (7.21)	2.09 (4.61)	2.78 (6.13)	1.51 (3.33)	2.03 (4.48)	1.12 (2.47)	1.53 (3.37)	0.90 (1.98)	*0.96 (2.12)	7.85 (25'9")			
	1 (3'3")			4.35 (9.59)	*5.73 (12.6)	2.83 (6.24)	3.84 (8.47)	1.97 (4.34)	2.66 (5.87)	1.45 (3.20)	1.96 (4.32)	1.09 (2.40)	1.49 (3.29)	0.89 (1.96)	*1.03 (2.27)	7.80 (25'7")			
	0 (Ground)			4.20 (9.26)	6.00 (13.2)	2.67 (5.89)	3.66 (8.07)	1.88 (4.15)	2.55 (5.62)	1.39 (3.06)	1.90 (4.19)	1.06 (2.34)	1.46 (3.22)	0.92 (2.03)	*1.13 (2.49)	7.59 (24'11")			
	-1 (-3'3")	*3.15 (6.95)	*3.15 (6.95)	4.09 (9.02)	5.88 (13.0)	2.57 (5.67)	3.56 (7.85)	1.81 (3.99)	2.48 (5.47)	1.35 (2.98)	1.85 (4.08)	1.04 (2.29)	1.44 (3.18)	0.99 (2.18)	*1.28 (2.82)	7.23 (23'9")			
	-2 (-6'7")	*5.11 (11.3)	*5.11 (11.3)	4.08 (9.00)	5.86 (12.9)	2.53 (5.58)	3.52 (7.76)	1.78 (3.92)	2.45 (5.40)	1.33 (2.93)	1.84 (4.06)			1.15 (2.54)	*1.53 (3.37)	6.60 (21'8")			
	-3 (-9'10")	*7.70 (17.0)	*7.70 (17.0)	4.12 (9.08)	5.91 (13.0)	2.55 (5.62)	3.53 (7.78)	1.79 (3.95)	2.46 (5.42)	1.46 (3.22)	*1.98 (4.37)			1.46 (3.22)	*1.98 (4.37)	5.83 (19'2")			

Notes: 1. Ratings are based on SAE J1097.

2. Lifting capacity of the Super 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

EX100M-3



Rating over-side or 360 degrees



Rating over-front

Unit: 1 000 kg (1 000 lb)

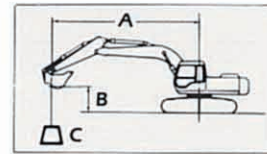
Conditions	Load point height m (ft in)	Load radius												m (ft in)			At max. reach		
		2 (6'7")		3 (9'10")		4 (13'1")		5 (16'5")		6 (19'8")		7 (23'0")							
																		@ m (ft in)	
Boom 4.27 m (14'0") Arm 1.96 m (6'5") Bucket PCSA: 0.46 m³ (0.60 yd³) CECE: 0.40 m³ Shoes 700 mm (28")	6 (19'8")					*2.48 (5.47)	*2.48 (5.47)							*1.24 (2.73)	*1.24 (2.73)	5.61 (18'5")			
	5 (16'5")					*2.49 (5.49)	*2.49 (5.49)	*2.37 (5.23)	*2.37 (5.23)					*1.17 (2.58)	*1.17 (2.58)	6.32 (20'9")			
	4 (13'1")					*2.78 (6.13)	*2.78 (6.13)	2.55 (5.62)	*2.66 (5.87)					*1.15 (2.54)	*1.15 (2.54)	6.77 (22'3")			
	3 (9'10")			*4.34 (9.57)	*4.34 (9.57)	*3.39 (7.47)	*3.39 (7.47)	2.48 (5.47)	*2.94 (6.48)	1.81 (3.99)	*2.62 (5.78)			*1.16 (2.56)	*1.16 (2.56)	7.02 (23'0")			
	2 (6'7")					3.39 (7.47)	*4.14 (9.13)	2.39 (5.27)	*3.32 (7.32)	1.77 (3.90)	2.73 (6.02)			*1.21 (2.67)	*1.21 (2.67)	7.10 (23'4")			
	1 (3'3")					3.24 (7.14)	*4.76 (10.5)	2.30 (5.07)	3.60 (7.94)	1.72 (3.79)	2.68 (5.91)			*1.30 (2.87)	*1.30 (2.87)	7.01 (23'0")			
	0 (Ground)			4.83 (10.7)	*4.90 (10.8)	3.14 (6.92)	*5.05 (11.1)	2.24 (4.94)	3.53 (7.78)	1.68 (3.70)	2.64 (5.82)			1.40 (3.09)	*1.44 (3.18)	6.75 (22'2")			
	-1 (-3'3")			4.99 (11.0)	*6.64 (14.6)	3.11 (6.86)	*5.03 (11.1)	2.21 (4.87)	3.49 (7.70)	1.67 (3.68)	2.63 (5.80)			1.57 (3.46)	*1.66 (3.66)	6.29 (20'8")			
	-2 (-6'7")	*5.87 (12.9)	*5.87 (12.9)	5.03 (11.1)	*6.04 (13.3)	3.12 (6.88)	*4.69 (10.3)	2.21 (4.87)	3.50 (7.72)					1.92 (4.23)	*2.04 (4.50)	5.57 (18'3")			
	-3 (-9'10")	*6.21 (13.7)	*6.21 (13.7)	*5.01 (11.0)	*5.01 (11.0)	3.18 (7.01)	*3.19 (8.62)												
Boom 4.27 m (14'0") Arm 2.26 m (7'5") Bucket PCSA: 0.46 m³ (0.60 yd³) CECE: 0.40 m³ Shoes 700 mm (28")	6 (19'8")													*1.06 (2.34)	*1.06 (2.34)	5.97 (19'7")			
	5 (16'5")							*2.30 (5.07)	*2.30 (5.07)					*1.00 (2.21)	*1.00 (2.21)	6.63 (21'9")			
	4 (13'1")					*2.52 (5.56)	*2.52 (5.56)	*2.46 (5.42)	*2.46 (5.42)	1.86 (4.10)	*1.93 (4.26)			*0.99 (2.18)	*0.99 (2.18)	7.05 (23'2")			
	3 (9'10")			*3.82 (8.42)	*3.82 (8.42)	*3.12 (6.88)	*3.12 (6.88)	2.51 (5.53)	*2.77 (6.11)	1.83 (4.04)	*2.56 (5.64)			*1.00 (2.21)	*1.00 (2.21)	7.29 (23'11")			
	2 (6'7")			5.25 (11.6)	*5.36 (11.8)	3.44 (7.59)	*3.90 (8.60)	2.41 (5.31)	*3.17 (6.99)	1.78 (3.92)	2.75 (6.06)			*1.05 (2.32)	*1.05 (2.32)	7.37 (24'2")			
	1 (3'3")					3.26 (7.19)	*4.58 (10.1)	2.31 (5.09)	*3.56 (7.85)	1.72 (3.79)	2.69 (5.93)			*1.12 (2.47)	*1.12 (2.47)	7.29 (23'11")			
	0 (Ground)			4.98 (11.0)	*5.17 (11.4)	3.15 (6.95)	*4.98 (11.0)	2.24 (4.94)	3.53 (7.78)	1.68 (3.70)	2.64 (5.82)			*1.43 (3.15)	*1.43 (3.15)	6.60 (21'8")			
	-1 (-3'3")	*3.39 (7.47)	*3.39 (7.47)	4.96 (10.9)	*6.82 (15.0)	3.10 (6.84)	5.04 (11.1)	2.20 (4.85)	3.49 (7.70)	1.66 (3.66)	2.62 (5.78)			2.24 (4.94)	*3.14 (6.92)	4.90 (16'1")			
	-2 (-6'7")	*6.30 (13.9)	*6.30 (13.9)	4.99 (11.0)	*6.32 (13.9)	3.10 (6.84)	*4.81 (10.6)	2.19 (4.83)	3.48 (7.67)					1.73 (3.81)	*1.75 (3.86)	5.93 (19'5")			
	-3 (-9'10")	*7.07 (15.6)	*7.07 (15.6)	5.06 (11.2)	*5.42 (12.0)	3.14 (6.92)	*4.19 (9.24)												
Boom 4.27 m (14'0") Arm 2.81 m (9'3") Bucket PCSA: 0.40 m³ (0.52 yd³) CECE: 0.33 m³ Shoes 700 mm (28")	6 (19'8")							*1.78 (3.92)	*1.78 (3.92)					*0.96 (2.12)	*0.96 (2.12)	6.57 (21'7")			
	5 (16'5")							*1.95 (4.30)	*1.95 (4.30)	*1.56 (3.44)	*1.56 (3.44)			*0.92 (2.03)	*0.92 (2.03)	7.16 (23'6")			
	4 (13'1")							*2.10 (4.63)	*2.10 (4.63)	1.92 (4.23)	*2.00 (4.41)			*0.91 (2.01)	*0.91 (2.01)	7.55 (24'9")			
	3 (9'10")					*2.50 (5.51)	*2.50 (5.51)	*2.43 (5.36)	*2.43 (5.36)	1.87 (4.12)	*2.32 (5.12)	1.40 (3.09)	*1.43 (3.15)	*0.93 (2.05)	*0.93 (2.05)	7.78 (25'6")			
	2 (6'7")			*4.56 (10.1)	*4.56 (10.1)	*3.42 (7.54)	*3.42 (7.54)	2.46 (5.42)	*2.87 (6.33)	1.81 (3.99)	*2.56 (5.64)	1.37 (3.02)	*1.83 (4.04)	*0.97 (2.14)	*0.97 (2.14)	7.85 (25'9")			
	1 (3'3")			5.14 (11.3)	*5.98 (13.2)	3.33 (7.34)	*4.21 (9.28)	2.35 (5.18)	*3.32 (7.32)	1.75 (3.86)	2.71 (5.98)	1.34 (2.95)	*2.06 (4.54)	*1.04 (2.29)	*1.04 (2.29)	7.77 (25'6")			
	0 (Ground)			5.00 (11.0)	*6.46 (14.2)	3.18 (7.01)	*4.77 (10.5)	2.55 (4.96)	3.55 (7.83)	1.69 (3.73)	2.65 (5.84)	1.31 (2.89)	*2.04 (4.50)	*1.15 (2.54)	*1.15 (2.54)	7.54 (24'9")			
	-1 (-3'3")	*3.48 (7.67)	*3.48 (7.67)	4.92 (10.8)	*6.96 (15.3)	3.09 (6.81)	*5.02 (11.1)	2.19 (4.83)	3.49 (7.70)	1.65 (3.64)	2.61 (5.76)			1.26 (2.78)	*1.32 (2.91)	7.14 (23'5")			
	-2 (-6'7")	*5.52 (12.2)	*5.52 (12.2)	4.92 (10.8)	*6.69 (14.8)	3.07 (6.77)	*4.96 (10.9)	2.17 (4.78)	3.46 (7.63)	1.64 (3.62)	2.60 (5.73)			1.46 (3.22)	*1.59 (3.51)	6.53 (21'5")			
	-3 (-9'10")	*8.28 (18.3)	*8.28 (18.3)	4.97 (11.0)	*6.03 (13.3)	3.09 (6.81)	*4.57 (10.1)	2.18 (4.81)	3.47 (7.65)					1.88 (4.15)	*2.10 (4.63)	5.64 (18'6")			
-4 (-13'1")	*6.50 (14.3)	*6.50 (14.3)	*4.85 (10.7)	*4.85 (10.7)	3.16 (6.97)	*3.68 (8.11)													

Notes: 1. Ratings are based on SAE J1097.

2. Lifting capacity of the Super 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.



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

METRIC MEASURE

EX100-3 with Off-set front



Rating over-side or 360 degrees



Rating over-front

Unit: 1 000 kg (1 000 lb)

Conditions	Load point height m (ft in)	Load radius										m (ft in)		At max. reach		
		2 (6'7")		3 (9'10")		4 (13'1")		5 (16'5")		6 (19'8")						@ m (ft in)
Arm 1.96 m (6'5") Bucket PCSA: 0.46 m³ (0.60 yd³) CECE: 0.40 m³ Shoes 500 mm (20")	6 (19'8")															
	5 (16'5")							*1.70 (3.75)	*1.70 (3.75)					*0.77 (1.70)	*0.77 (1.70)	6.43 (21'1")
	4 (13'1")							*1.76 (3.88)	*1.76 (3.88)	*1.44 (3.18)	*1.44 (3.18)			*0.74 (1.63)	*0.74 (1.63)	6.90 (22'8")
	3 (9'10")					*2.24 (4.94)	*2.24 (4.94)	*2.03 (4.48)	*2.03 (4.48)	1.41 (3.11)	1.95 (4.30)			*0.74 (1.63)	*0.74 (1.63)	7.17 (23'6")
	2 (6'7")					2.74 (6.04)	*3.01 (6.64)	1.89 (4.17)	*2.44 (5.38)	1.34 (2.95)	1.87 (4.12)			*0.76 (1.68)	*0.76 (1.68)	7.28 (23'11")
	1 (3'3")					2.45 (5.40)	3.49 (7.70)	1.73 (3.81)	2.44 (5.38)	1.25 (2.76)	1.79 (3.95)			*0.80 (1.76)	*0.80 (1.76)	7.23 (23'9")
	0 (Ground)					2.28 (5.03)	3.30 (7.28)	1.61 (3.55)	2.31 (5.09)	1.18 (2.60)	1.71 (3.77)			*0.88 (1.94)	*0.88 (1.94)	7.00 (23'0")
	-1 (-3'3")			3.58 (7.89)	5.38 (11.9)	2.21 (4.87)	3.22 (7.10)	1.55 (3.42)	2.24 (4.94)	1.15 (2.54)	1.67 (3.68)			0.99 (2.18)	*1.00 (2.21)	6.60 (21'8")
	-2 (-6'7")	*6.00 (13.2)	*6.00 (13.2)	3.64 (8.03)	5.46 (12.0)	2.21 (4.87)	3.22 (7.10)	1.54 (3.40)	2.24 (4.94)					*1.20 (2.65)	*1.20 (2.65)	5.96 (19'7")
	-3 (-9'10")	*7.46 (16.4)	*7.46 (16.4)	3.76 (8.29)	5.58 (12.3)	2.28 (5.03)	3.30 (7.28)							1.61 (3.55)	2.30 (5.07)	4.98 (16'4")
-4 (-13'1")	*6.63 (14.6)	*6.63 (14.6)	4.00 (8.82)	*4.82 (10.6)	2.48 (5.47)	*3.50 (7.72)										

EX100-3 with Rubber crawler

Unit: 1 000 kg (1 000 lb)

Conditions	Load point height m (ft in)	Load radius										m (ft in)		At max. reach		
		2 (6'7")		3 (9'10")		4 (13'1")		5 (16'5")		6 (19'8")						@ m (ft in)
																
Boom 4.27 m (14'0") Arm 2.26 m (7'5") Bucket PCSA: 0.46 m³ (0.60 yd³) CECE: 0.40 m³ Shoes R500 mm (20")	6 (19'8")															
	5 (16'5")							2.22 (4.90)	*2.23 (4.92)					*1.01 (2.23)	*1.01 (2.23)	6.55 (21'6")
	4 (13'1")							2.19 (4.83)	*2.43 (5.36)	1.54 (3.40)	*1.80 (3.97)			*0.99 (2.18)	*0.99 (2.18)	7.01 (23'0")
	3 (9'10")			*3.40 (7.50)	*3.40 (7.50)	*3.02 (6.66)	*3.02 (6.66)	2.12 (4.67)	*2.72 (6.00)	1.52 (3.35)	2.03 (4.48)			*1.00 (2.21)	*1.00 (2.21)	7.27 (23'10")
	2 (6'7")			4.58 (10.1)	*5.24 (11.6)	2.92 (6.44)	*3.79 (8.36)	2.02 (4.45)	2.70 (6.00)	1.47 (3.24)	1.98 (4.37)			0.99 (2.18)	*1.04 (2.29)	7.37 (24'2")
	1 (3'3")					2.73 (6.02)	3.74 (8.25)	1.92 (4.23)	2.60 (5.73)	1.41 (3.11)	1.92 (4.23)			0.99 (2.18)	*1.11 (2.45)	7.31 (24'0")
	0 (Ground)			4.13 (9.11)	*4.95 (10.9)	2.61 (5.76)	3.60 (7.94)	1.84 (4.06)	2.52 (5.56)	1.37 (3.02)	1.87 (4.12)			1.03 (2.45)	*1.22 (2.69)	7.08 (23'3")
	-1 (-3'3")			4.10 (9.04)	5.88 (13.0)	2.56 (5.64)	3.54 (7.81)	1.80 (3.97)	2.47 (5.45)	1.34 (2.95)	1.85 (4.08)			1.14 (2.51)	*1.40 (3.09)	6.68 (21'11")
	-2 (-6'7")	*5.83 (12.9)	*5.83 (12.9)	4.12 (9.08)	5.91 (11.4)	2.55 (5.62)	3.53 (7.78)	1.79 (3.95)	2.46 (5.42)	1.35 (2.98)	1.85 (4.08)			1.36 (3.00)	*1.69 (3.73)	6.04 (19'10")
	-3 (-9'10")	*7.31 (16.1)	*7.31 (16.1)	4.19 (9.24)	*5.58 (12.3)	2.59 (5.71)	3.57 (7.87)	1.82 (4.01)	2.49 (5.49)					1.85 (4.08)	*2.27 (5.01)	5.07 (16'8")
	-4 (-13'1")			*4.11 (9.06)	*4.11 (9.06)	2.69 (5.93)	*3.04 (6.70)									

Notes: 1. Ratings are based on SAE J1097.

2. Lifting capacity of the Super 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.

ENGLISH MEASURE

EX100-3



Rating over-side or 360 degrees



Rating over-front

Unit: 1 000 lb

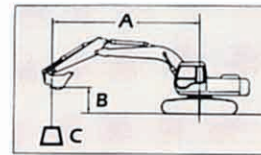
Conditions	Load point height ft in	Load radius										At max. reach		
		5'0"		10'0"		15'0"		20'0"		ft in		ft in		@ft in
Boom 14'0" Arm 6'5" Bucket PCSA: 0.60 yd ³ Shoes 20"	15'0"					*5.62	*5.62					*2.56	*2.56	21'2"
	10'0"			*8.64	*8.64	5.42	*6.60	3.22	4.32			2.50	*2.55	22'11"
	5'0"					5.01	*6.76	3.09	4.19			2.34	*2.72	23'3"
	0 (Ground)					4.70	6.42	2.96	4.05			2.46	*3.10	22'4"
	-5'0"			8.92	12.7	4.60	6.31					2.99	*3.89	19'11"
	-10'0"			9.15	*11.3	4.72	6.44					4.84	*5.25	15'2"
Boom 14'0" Arm 7'5" Bucket PCSA: 0.60 yd ³ Shoes 20"	15'0"					*5.11	*5.11					*2.20	*2.20	22'2"
	10'0"					5.50	*6.14	3.27	4.37			*2.20	*2.20	23'10"
	5'0"					5.07	6.82	3.11	4.21			2.18	*2.35	24'2"
	0 (Ground)			8.91	*11.6	4.71	6.44	2.96	4.05			2.28	*2.68	23'3"
	-5'0"	*7.52	*7.52	8.84	*12.6	4.57	6.29	2.90	3.99			2.72	*3.35	21'0"
	-10'0"			9.03	*12.1	4.64	6.36					4.12	*5.03	16'7"
Boom 14'0" Arm 9'3" Bucket PCSA: 0.52 yd ³ Shoes 20"	15'0"							3.45	*3.57			*2.02	*2.02	23'10"
	10'0"					*5.27	*5.27	3.36	4.48			*2.04	*2.04	25'5"
	5'0"			10.1	*10.9	5.20	6.97	3.17	4.28			1.96	*2.18	25'9"
	0 (Ground)			9.02	12.9	4.77	6.51	2.98	4.08			2.02	*2.49	24'11"
	-5'0"	*7.28	*7.28	8.75	12.5	4.55	6.26	2.87	3.96			2.34	*3.08	22'10"
	-10'0"	*14.6	*14.6	8.84	12.6	4.54	6.26					3.26	*4.44	18'11"
	-15'0"			*9.03	*9.03									

Notes: 1. Ratings are based on SAE J1097.

2. Lifting capacity of the Super 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

EX100M-3

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

Conditions	Load point height ft in	Load radius										ft in		At max. reach		
		5'0"		10'0"		15'0"		20'0"								
																@ft in
Boom 14'0" Arm 6'5" Bucket PCSA: 0.60 yd ³ Shoes 28"	15'0"					*5.67	*5.67							*2.55	*2.55	21'5"
	10'0"			*9.24	*9.24	6.36	*6.78	3.88	*5.22					*2.56	*2.56	23'0"
	5'0"					5.94	*8.46	3.74	5.81					*2.75	*2.75	23'3"
	0 (Ground)					5.65	8.98	3.62	5.68					3.09	*3.17	22'2"
	-5'0"	*8.77	*8.77	10.7	*13.9	5.57	8.90							3.79	*4.03	19'6"
	-10'0"			*10.8	*10.8	5.73	*7.11									
Boom 14'0" Arm 7'5" Bucket PCSA: 0.60 yd ³ Shoes 28"	15'0"					*5.17	*5.17							*2.19	*2.19	22'5"
	10'0"			*8.08	*8.08	*6.33	*6.33	3.92	*5.35					*2.21	*2.21	23'11"
	5'0"					5.99	*8.10	3.76	5.84					*2.37	*2.37	24'1"
	0 (Ground)			10.7	*12.2	5.66	9.00	3.61	5.68					*2.74	*2.74	23'1"
	-5'0"	*8.64	*8.64	10.7	*14.3	5.54	8.86	3.57	5.63					3.45	*3.47	20'7"
	-10'0"			10.9	*11.7	5.64	*7.82							*5.29	*5.29	15'10"
Boom 14'0" Arm 9'3" Bucket PCSA: 0.52 yd ³ Shoes 28"	15'0"							*3.79	*3.79					*2.02	*2.02	24'1"
	10'0"					*5.46	*5.46	4.01	*5.00					*2.05	*2.05	25'6"
	5'0"			*11.6	*11.6	6.12	*7.37	3.82	*5.86					*2.21	*2.21	25'8"
	0 (Ground)			10.8	*14.8	5.71	*8.97	3.63	5.70					*2.54	*2.54	24'9"
	-5'0"	*8.06	*8.06	10.5	*14.9	5.51	8.83	3.53	5.59					2.98	*3.19	22'6"
	-10'0"	*15.7	*15.7	10.7	*13.0	5.53	*8.64							4.20	*4.72	18'4"

- Notes: 1. Ratings are based on SAE J1097.
2. Lifting capacity of the Super 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.

ENGLISH MEASURE

EX100-3 with Off-set front

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

Conditions	Load point height ft in	Load radius										ft in		
		5'0"		10'0"		15'0"		20'0"						At max. reach
														@ft in
Arm 6'5" Bucket PCSA: 0.60 yd ³ Shoes 20"	15'0"													*1.64 *1.64 21'10"
	10'0"					*4.55	*4.55	2.99	4.15					*1.60 *1.60 23'6"
	5'0"					4.61	*6.34	2.75	3.90					*1.69 *1.69 23'10"
	0 (Ground)					4.08	5.86	2.52	3.65					*1.92 *1.92 23'0"
	-5'0"			7.70	11.5	3.89	5.66	2.45	3.58					2.38 *2.39 20'8"
	-10'0"	*13.0	*13.0	8.04	11.9	4.05	5.83							*3.54 *3.54 16'2"

EX100-3 with Rubber crawler

Unit: 1 000 lb

Conditions	Load point height ft in	Load radius										ft in		
		5'0"		10'0"		15'0"		20'0"						At max. reach
														@ft in
Boom 14'0" Arm 7'5" Bucket PCSA: 0.60 yd ³ Shoes R20"	15'0"					*5.12	*5.12							*2.20 *2.20 22'3"
	10'0"			*7.22	*7.22	5.47	*6.18	3.25	4.35					*2.20 *2.20 23'10"
	5'0"					5.03	6.78	3.09	4.18					2.17 *2.35 24'2"
	0 (Ground)			8.86	*11.8	4.68	6.40	2.94	4.03					2.27 *2.69 23'3"
	-5'0"	*7.77	*7.77	8.80	12.6	4.54	6.25	2.88	3.97					2.72 *3.38 20'11"
	-10'0"			8.99	*12.0	4.62	6.34							4.16 *5.11 16'5"

Notes: 1. Ratings are based on SAE J1097.

2. Lifting capacity of the Super 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.

ENGINE

- 30 A alternator
- Dry-type air filter with evacuator valve (with safety element)
- Cartridge-type engine oil filter
- Cartridge-type engine oil bypass filter
- Cartridge type fuel filter
- Radiator and oil cooler with dust protective net
- Radiator reserve tank
- Fan guard
- Isolation-mounted engine
- Auto-idling system

HYDRAULIC SYSTEM

- Load-sensing system
- Flow dividing control system
- Work mode selector
- Engine speed sensing system
- E-P control system (power mode selector)
- FPS
- Hydraulic warm-up control system for hydraulic oil
- Quick warm-up system for pilot circuit
- Shockless valve in pilot circuit
- Swing cushion valve in swing circuit

- Accumulator in pilot circuit (except North America)
- Boom-arm holding valve
- Control valve with main relief valve
- Extra port for control valve
- Suction filter
- Full-flow filter
- Pilot filter

CAB

All-weather sound-suppressed steel cab equipped with reinforced, tinted (bronze color) glass windows, openable front windows-upper with assist spring, and lower and both side windows with intermittent windshield wipers, front window washer, curved rear window, side mirror (North America only), adjustable suspension seat with adjustable armrests, footrest, electric double horn, auto-tuning radio with digital clock or without digital clock in North America, auto-idle switch, seat belt, cigarette lighter (except North America), ashtray, parcel pocket, rear tray, floor mat, heater, and pilot control shut-off lever, travel alarm with cancel switch (North America only).

MONITOR SYSTEM

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

LIGHTS

- 2 working lights and 1 cab light

UPPERSTRUCTURE

- Undercover
- 1 750 kg (3 860 lb) counter-weight
- Fuel level gauge
- Hydraulic oil level gauge
- Tool box
- Utility space
- Rearview mirror (right side)
- Swing parking brake

UNDERCARRIAGE

- Travel parking brake
- Travel motor covers
- Hydraulic track adjuster
- Bolt-on sprocket
- Upper rollers and lower rollers
- Reinforced track links with pin seals
- 500 mm (20") triple grouser shoes with EX100-3
- 700 mm (28") triple grouser shoes with EX100M-3

FRONT ATTACHMENTS

- Bucket clearance adjust mechanism
- Monolithically cast bucket link A
- Centralized lubrication system
- Dirt seals on all bucket pins
- 2.26 m (7'5") arm
- 0.46 m³ (0.60 yd³: PCSA heaped) bucket

MISCELLANEOUS

- Standard tool kit
- Lockable machine covers
- Lockable fuel filling cap
- Skid-resistant tapes and handrails.

OE OPTIONAL EQUIPMENT

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

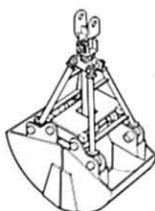
- Air conditioner
- Multi selection lever with rotary valve
- Hose rupture valves
- Electric fuel refilling pump
- Swing motion alarm device with lamps
- Travel motion alarm device
- Additional pump
- Piping kit for extra port
- PTO valve & Additional valve with piping kit

- One-point ripper for ripping hardpan
- Clamshell bucket for deep, vertical excavations like manholes, pilings, footings, etc.
- Slope-finishing blade for slope finishing jobs . . . scraping up or down, compacting, leveling, grading etc.

Type of Bucket



One-point ripper for EX100-3



Clamshell bucket for EX100-3 & EX100-3 with rubber crawler



Slope-finishing blade for EX100-3 & EX100-3 with rubber crawler

Type of Shoe

EX100-3



Triple grouser shoe 600 mm (24"), 700 mm (28")



Flat shoe 510 mm (20")



Triangular shoe 700 mm (28")

EX100M-3



Triple high grouser shoe 960 mm (38")



Triangular shoe 760 mm (30"), 960 mm (38")

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, such as side mirror, for the models sold in North America.

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