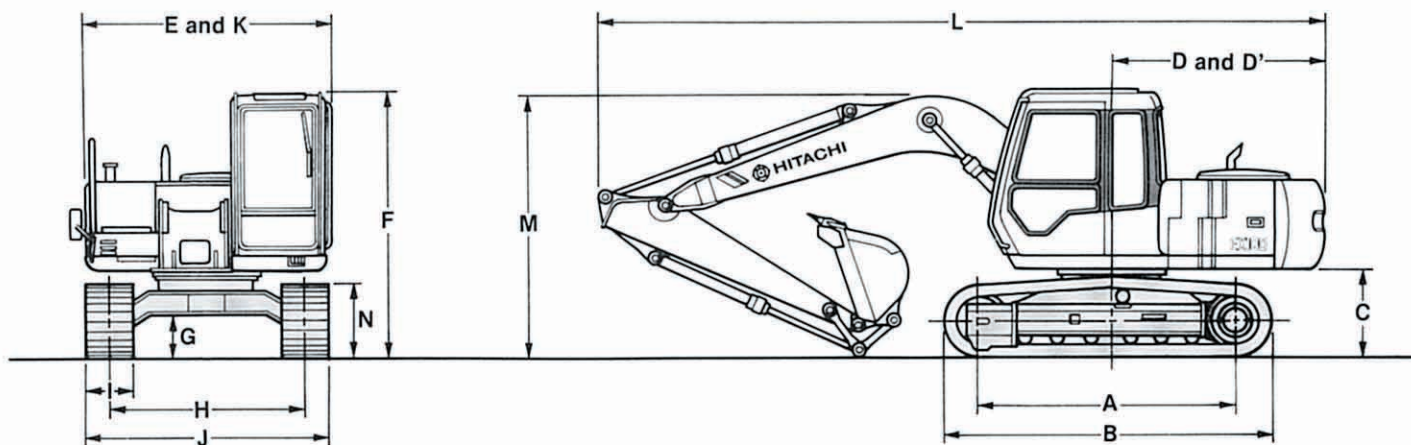


EX100

- Rated engine HP 57 kW (78 PS)
- Operating weight..... EX100-2: 10 700 kg (23 600 lb)
EX100M-2: 12 200 kg (26 900 lb)
- Backhoe bucket..... PCSA heaped: 0.19 — 0.59 m³
(0.25 — 0.77 cu yd)
CECE heaped: 0.17 — 0.50 m³

Specifications



A Distance between tumblers	EX100-2	2 620 mm (8'7")	EX100M-2	2 960 mm (9'9")
B Undercarriage length	EX100-2	3 340 mm (10'11")	EX100M-2	3 790 mm (12'5")
*C Counterweight clearance	EX100-2	890 mm (2'11")	EX100M-2	1 070 mm (3'6")
D Rear-end swing radius		2 130 mm (7'0")		
D' Rear-end distance		2 100 mm (6'11")		
E Overall width of superstructure		2 460 mm (8'1")		
F Overall height of cab	EX100-2	2 700 mm (8'10")	EX100M-2	2 880 mm (9'5")
*G Min. ground clearance	EX100-2	440 mm (1'5")	EX100M-2	575 mm (1'11")
H Track gauge	EX100-2	1 990 mm (6'6")	EX100M-2	2 040 mm (6'8")
I Track shoe width	EX100-2	G 500 mm (20")	G 600 mm (24")	G 700 mm (28") T 700 mm (28")
	EX100M-2	G 700 mm (28")	G 960 mm (38")	T 760 mm (30") T 960 mm (38")
J Undercarriage width	EX100-2	2 490 mm (8'2")	2 590 mm (8'6")	2 690 mm (8'10") 2 690 mm (8'10")
	EX100M-2	2 740 mm (9'0")	3 000 mm (9'10")	2 800 mm (9'2") 3 000 mm (9'10")
K Overall width	EX100-2	2 500 mm (8'2")	2 590 mm (8'6")	2 690 mm (8'10") 2 690 mm (8'10")
	EX100M-2	2 740 mm (9'0")	3 000 mm (9'10")	2 800 mm (9'2") 3 000 mm (9'10")
L Overall length	EX100-2	7 180 mm (23'7"),	EX100M-2	7 170 mm (23'6") with 1.96 m (6'5") arm
	EX100-2	7 190 mm (23'7"),	EX100M-2	7 190 mm (23'7") with 2.26 m (7'5") arm
	EX100-2	7 190 mm (23'7"),	EX100M-2	7 190 mm (23'7") with 2.81 m (9'3") arm
M Overall height of boom	EX100-2	2 600 mm (8'6"),	EX100M-2	2 670 mm (8'9") with 1.96 m (6'5") arm
	EX100-2	2 690 mm (8'10"),	EX100M-2	2 740 mm (9'0") with 2.26 m (7'5") arm
	EX100-2	**2 680 mm (8'10"),	EX100M-2	**2 670 mm (8'9") with 2.81 m (9'3") arm
N Track height	EX100-2	790 mm (2'7"),	EX100M-2	900 mm (2'11") with triple grouser shoe
	EX100-2	880 mm (2'11"),	EX100M-2	1 010 mm (3'4") with triangular shoe

*Excluding track shoe lug.

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

G: Triple grouser shoe

T: Triangular shoe

TECHNICAL DATA



ENGINE

Model.....	Isuzu 4BD1
Type	Water-cooled, 4-cycle, 4-cyl- inders in line, direct injection chamber type diesel engine
Rated flywheel.....	57 kW (78 PS)
horsepower	at 2 300 rpm
(DIN 6271, net)	
Rated flywheel	54 kW (72 HP)
horsepower	at 2 300 rpm
(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 cu in)
Bore and stroke	102 mm x 118 mm (4.02" x 4.65")
Batteries	2 x 12 V, 65 AH
Governor	Mechanical, all-speed control with stepping motor



HYDRAULIC SYSTEM

ELLE (Electronic Load-sensing Excavation) system designed for maximum job efficiency and precise, smooth control.

- 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 pumps..... 1-variable displacement axial piston pump

Maximum oil flow..... 1 x 184 l/min
(48.5 US gpm, 40.4 Imp gpm)

Pilot pump..... Gear pump

Maximum oil flow..... 38.6 l/min
(10.2 US gpm, 8.5 Imp gpm)

Relief Valve Settings

Implement circuit..... 34.3 MPa (350 kgf/cm², 4 980 psi)

Swing circuit..... 34.8 MPa (355 kgf/cm², 5 050 psi)

Travel circuit..... 34.3 MPa (350 kgf/cm², 4 980 psi)

Pilot circuit..... 4.9 MPa (50 kgf/cm², 710 psi)

Hydraulic Cylinders

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

Dimensions

	Quan.	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")

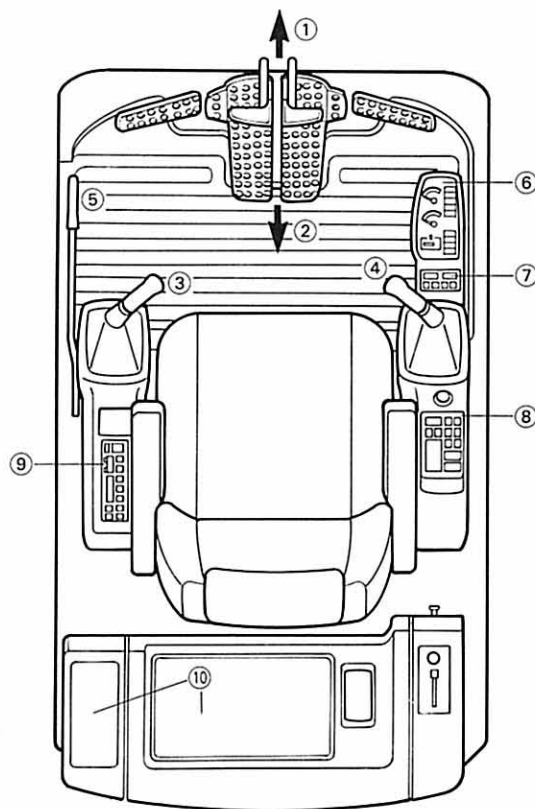
Hydraulic Filters

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



CONTROLS

Pilot controls (for all operations), Hitachi's original shock-less valve and quick warm-up system are built in the pilot circuit for easy, precise, fatigue-free operation. Hydraulic warm-up control system for engine and hydraulic oil. Multi selection lever with rotary valve is optionally available for simple selection of control lever direction.



- ① Travel forward (levers)
- ② Travel reverse (with pedals)
- ③ Swing / Arm control lever
- ④ Boom / Bucket control lever
- ⑤ Pilot control shut-off lever
- ⑥ Monitor panel
- ⑦ Switch panel I
- ⑧ Switch panel II
- ⑨ Auto turning radio
- ⑩ Rear tray



SUPERSTRUCTURE

Revolving Frame

Welded high-strength box construction using heavy-gauge steel plates for high ruggedness. Reinforced D-section frame featuring high resistance to deformation.

Swing Mechanism

High-torque, 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, ensuring smooth stops.

Swing speed..... 11.0 min⁻¹ (11.0 rpm)

Operator's Cab

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

* International Standard Organization



UNDERCARRIAGE

Tracks

Tractor-type undercarriage. Heavy-duty track frame of all welded structure. Top-grade materials employed for heavy-duty operation. Side frames are rigidly welded to the track frame.

Lifetime-lubricated track rollers, idlers, and sprockets with floating seals. Track shoes with triple grousers made of induction-hardened rolled alloy. Flat and triangular shoes also available. Specially 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	EX100-2
	2	EX100M-2
Lower rollers.....	6	EX100-2
	7	EX100M-2
Track shoes.....	41	EX100-2
	47	EX100M-2

Traction Device

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

Automatic transmission system; High—Medium.

Travel speeds

EX100-2	High: 0 to 5.5 km/h (3.4 mph)
	Medium: 0 to 3.4 km/h (2.1 mph)
	Low: 0 to 2.5 km/h (1.6 mph)
EX100M-2.....	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

EX100-2.....	84.3 kN (8 600 kgf, 18 960 lbf)
EX100M-2.....	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 cu yd: PCSA heaped) bucket.

EX100-2

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)
Flat type	510 mm (20")	11 200 kg (24 700 lb)	37.3 KPa (0.38 kgf/cm ² , 5.40 psi)
Triangular type	700 mm (28")	11 000 kg (24 250 lb)	27.5 KPa (0.28 kgf/m ² , 3.98 psi)

EX100M-2

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/m ² , 3.84 psi)
Triple high grouser	960 mm (38")	13 300 kg (29 300 lb)	20.6 KPa (0.21 kgf/m ² , 2.99 psi)
Triangular type	760 mm (30")	12 200 kg (26 900 lb)	24.5 KPa (0.25 kgf/m ² , 3.56 psi)
	960 mm (38")	12 900 kg (28 400 lb)	20.6 KPa (0.21 kgf/m ² , 2.99 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.

EX100-2.....	8 700 kg (19 200 lb) with 500 mm (20") shoes
EX100M-2	10 210 kg (22 500 lb) with 700 mm (28") shoes



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)			
EX100-2.....	3.0	0.8	0.7
EX100M-2.....	4.4	1.2	1.0
Hydraulic system	130.0	34.3	28.6
Hydraulic tank	69.0	18.2	15.2

TECHNICAL DATA

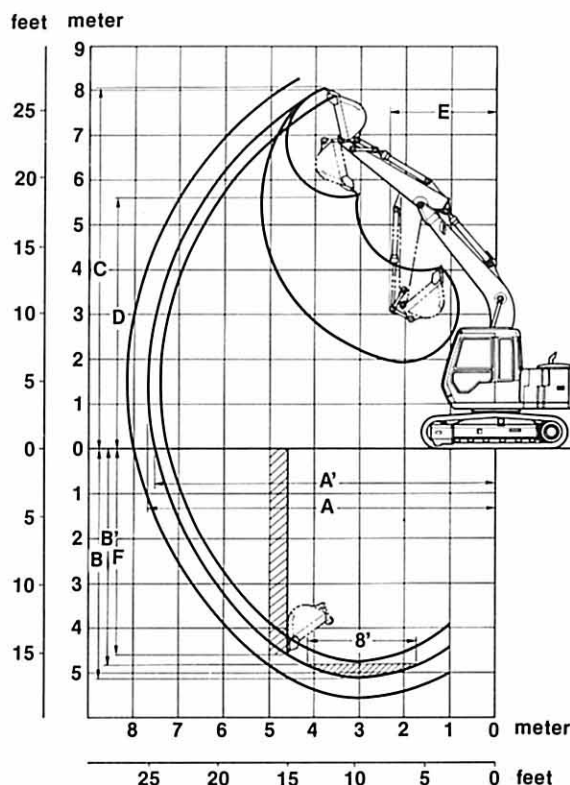


BACKHOE ATTACHMENTS

Boom and arms are of all-welded, low-stress, full 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 all-welded, high-strength steel structure. Side clearance adjust mechanism provided on the bucket joint bracket.



WORKING RANGES



EX100-2

Unit: mm (ft in)

Arm length	1.96 m (6'5")	2.26 m (7'5")	2.81 m (9'3")
A Max. digging reach	7 430 mm (24'5")	7 700 mm (25'3")	8 180 mm (26'10")
A' Max. digging reach (on ground)	7 290 mm (23'11")	7 560 mm (24'10")	8 050 mm (26'5")
B Max. digging depth	4 780 mm (15'8")	5 080 mm (16'8")	5 630 mm (18'6")
B' Max. digging depth (8' level)	4 520 mm (14'10")	4 840 mm (15'11")	5 420 mm (17'9")
C Max. cutting height	7 850 mm (25'9")	8 030 mm (26'4")	8 250 mm (27'1")
D Max. dumping height	5 460 mm (17'11")	5 630 mm (18'6")	5 870 mm (19'3")
E Min. swing radius	2 360 mm (7'9")	2 390 mm (7'10")	2 630 mm (8'8")
F Max. vertical wall	4 320 mm (14'2")	4 620 mm (15'2")	5 100 mm (16'9")
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)
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)

EX100M-2

Arm length	1.96 m (6'5")	2.26 m (7'5")	2.81 m (9'3")
A Max. digging reach	7 430 mm (24'5")	7 700 mm (25'3")	8 180 mm (26'10")
A' Max. digging reach (on ground)	7 250 mm (23'9")	7 520 mm (24'8")	8 010 mm (26'3")
B Max. digging depth	4 600 mm (15'1")	4 900 mm (16'1")	5 450 mm (17'11")
B' Max. digging depth (8' level)	4 340 mm (14'3")	4 660 mm (15'3")	5 240 mm (17'2")
C Max. cutting height	8 030 mm (26'4")	8 210 mm (26'11")	8 430 mm (27'8")
D Max. dumping height	5 640 mm (18'6")	5 810 mm (19'1")	6 050 mm (19'10")
E Min. swing radius	2 360 mm (7'9")	2 390 mm (7'10")	2 630 mm (8'8")
F Max. vertical wall	4 140 mm (13'7")	4 440 mm (14'7")	4 920 mm (16'2")
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)
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)

Excluding track shoe lug

Buckets

Capacity		Width		No. of teeth	Weight	Recommendation						
						EX100-2			EX100M-2			Off-set front
PCSA heaped	CECE heaped	Without side cutters	With side cutters			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	1.96 m (6'5") arm
0.19 m ³ (0.25 cu yd)	0.17 m ³	450 mm (18")	550 mm (22")	3	240 kg (530 lb)	⊙	⊙	⊙	⊙	⊙	⊙	⊙
0.30 m ³ (0.39 cu yd)	0.25 m ³	580 mm (23")	700 mm (28")	3	280 kg (620 lb)	⊙	⊙	⊙	⊙	⊙	⊙	⊙
0.40 m ³ (0.52 cu yd)	0.33 m ³	680 mm (27")	800 mm (31")	4	320 kg (710 lb)	⊙	⊙	⊙	⊙	⊙	⊙	⊙
0.46 m ³ (0.60 cu yd)	0.40 m ³	850 mm (33")	970 mm (38")	5	370 kg (820 lb)	⊙	⊙	⊙	⊙	⊙	⊙	⊙
0.55 m ³ (0.72 cu yd)	0.45 m ³	890 mm (35")	1 010 mm (40")	5	390 kg (860 lb)	⊙	⊙	⊙	⊙	⊙	⊙	⊙
0.59 m ³ (0.77 cu yd)	0.50 m ³	950 mm (37")	1 070 mm (42")	5	410 kg (900 lb)	⊙	⊙	⊙	⊙	⊙	⊙	⊙
One-point ripper					1	320 kg (710 lb)	●	●	—	—	—	—
Clamshell bucket: 0.30 m ³ (0.39 cu yd: 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

⊙ Suitable for materials with density of 2 000 kg/m³ (3 370 lb/cu yd) or less
 ○ Suitable for materials with density of 1 600 kg/m³ (2 700 lb/cu yd) or less
 □ Suitable for materials with density of 1 100 kg/m³ (1 850 lb/cu yd) or less
 ● Heavy-duty service
 ◇ Slope-finishing service
 — Not recommended

STANDARD EQUIPMENT

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

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, adjustable suspension seat with armrests, electric double horn, auto-tuning radio with digital clock, auto-idle switch, cigarette lighter, ashtray, parcel pocket, rear tray; floor mat, heater, and pilot control shut-off lever.

Monitor system

- Meters
Hourmeter, engine coolant temperature gauge, and fuel meter
- Warning lamps
Alternator charge, engine oil pressure, engine overheat, air cleaner clog, 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

- 3 working lights, and 1 cab light.

Superstructure

Full undercover for noise suppression, 1 750 kg (3 860 lb) counterweight, large tool box, utility space, rearview mirror, cartridge-type filters for engine oil and fuel, heavy-duty air cleaner with evacuator valve, radiator and oil cooler with dust-proof net, radiator reserve tank, boom-arm holding valve, hydraulic warm-up control system for engine and hydraulic oil, quick warm-up system for pilot circuit, accumulator for pilot circuit, control valve with main relief valve.

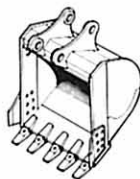
Undercarriage

Hydraulic brake valves for travel circuit, travel motor covers, tack guards, and hydraulic track adjuster.

Miscellaneous

Standard tool kit, lockable machine covers, fuel filling cap, non-slip tapes, and handrails.

Type of Bucket



Backhoe bucket

Type of Shoe



EX100-2
Triple grouser shoe
500 mm (20")



EX100M-2
Triple grouser shoe
700 mm (28")

OPTIONAL EQUIPMENT

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

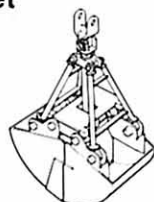
- Air conditioner
- Multi selection lever with rotary valve
- Hose rupture valves
- Electric fuel refilling pump
- Swing motion alarm device with lamps
- Travel motion alarm device
- Additional pump
- Piping kit for extra port
- PTO valve & Additional valve with piping kit

- 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 EX100-2



Clamshell bucket



Slope-finishing blade

Type of Shoe

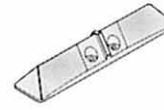
EX100-2



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



Flat shoe
510 mm (20")



Triangular shoe
700 mm (28")

EX100M-2

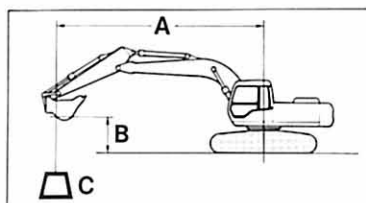


Triple high grouser shoe
960 mm (38")



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

LIFTING CAPACITIES



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

METRIC MEASURE



Rating over-side or 360 degrees



Rating over-front

EX100-2

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 m ³ (0.60 cu yd) CECE: 0.40 m ³ Shoes 500 m (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 (7.19)	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 m ³ (0.60 cu yd) CECE: 0.40 m ³ 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")
	-4 (-13'1")			*4.19 (9.24)	*4.19 (9.24)	2.70 (5.95)	*3.12 (6.88)									

Boom 4.27 m (14'0") Arm 2.81 m (9'3") Bucket PCSA: 0.40 m ³ (0.52 cu yd) CECE: 0.33 m ³ 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")
	-4 (-13'1")	*6.91 (15.2)	*6.91 (15.2)	4.22 (9.31)	*5.12 (11.3)	2.61 (5.76)	3.60 (7.94)	1.85 (4.08)	2.52 (5.56)							

METRIC MEASURE



Rating over-side or 360 degrees

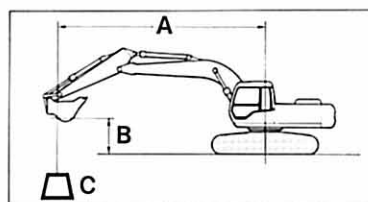


Rating over-front

EX100M-2

Unit: 1 000 kg (1 000 lb)

Conditions	Load point height m (ft in)	Load radius												At max. reach		
		m (ft in)														
		2 (6'7")	3 (9'10")	4 (13'1")	5 (16'5")	6 (19'8")	7 (23'0")	8 (26'3")	9 (29'6")	10 (32'9")	11 (36'1")	12 (39'4")	13 (42'7")	14 (45'9")	15 (49'2")	m (ft in)
Boom 4.27 m (14'0") Arm 1.96 m (6'5") Bucket PCSA: 0.46 m ³ (0.60 cu yd) CECE: 0.40 m ³ 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 m ³ (0.60 cu yd) CECE: 0.40 m ³ 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 m ³ (0.52 cu yd) CECE: 0.33 m ³ 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)	*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)	*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)	*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)	2.25 (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)	*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)									



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

Rating over-side or 360 degrees Rating over-front

Unit: 1 000 lb

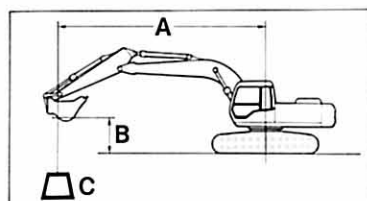
EX100-2

Conditions	Load point height ft in	Load radius												At max. reach		
		5'0"				10'0"				15'0"				ft in		
																@ft in
Boom 14'0" Arm 6'5" Bucket PCSA: 0.60 cu yd 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 cu yd 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 cu yd 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 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.

LIFTING CAPACITIES

SuperEX



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

ENGLISH MEASURE



Rating over-side or 360 degrees



Rating over-front

EX100M-2

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					
Boom 14'0" Arm 6'5" Bucket PCSA: 0.60 cu yd 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 cu yd 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 cu yd 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 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.

EX100

These specifications are subject to change without notice.

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