

SPECIFICATIONS



ENGINE

Model	Hino H06CTi
Type	4-cycle water-cooled, direct injection
Aspiration	Turbocharged
No. of cylinders	6
Rated flywheel	121 kW (165 PS) at 2 100 min ⁻¹ (rpm)
horsepower (DIN 6271, net)	
Rated flywheel	120 kW (161 HP) at 2 100 min ⁻¹ (rpm)
horsepower (SAE J1349, net)	
Maximum torque	588 N.m (60 kgf.m, 434 lbf.ft)
	at 1 600 min ⁻¹ (rpm)
Piston displacement	6.485 L (396 in ³)
Bore and stroke	108 mm × 113 mm (4.3" × 4.4")
Batteries	2 × 12 V, 120 AH



HYDRAULIC SYSTEM

Hitachi's ETS (Electronic Total control System) designed for higher job efficiency with less fuel consumption/noise.

- E-P Control (Computer aided Engine-Pump Control system)
- OHS (Optimum Hydraulic System) assures fully independent and combined operations.
- FPS (Fuel-saving Pump System)
- Auto-idling system
- High-pressure 2-speed travel system for high traction force and travel speed

Main pumps	2 variable displacement axial piston pumps
Maximum oil flow	2 × 262 L/min (69.2 US gpm, 57.6 Imp gpm)
Pilot pump	1 gear pump
Maximum oil flow	35.3 L/min (9.3 US gpm, 7.8 Imp gpm)

Hydraulic Motors

Travel	2 axial piston motors with parking brake
Swing	1 axial piston motor

Relief Valve Settings

Implement circuit	27.9 MPa (285 kgf/cm ² , 4 050 psi)
Swing circuit	27.9 MPa (285 kgf/cm ² , 4 050 psi)
Travel circuit	34.3 MPa (350 kgf/cm ² , 4 980 psi)
Pilot circuit	3.9 MPa (40 kgf/cm ² , 570 psi)

Hydraulic Cylinders

Cylinder cushion mechanisms are provided for all cylinders to absorb shock when pistons reach their stroke ends.

Dimensions

	Qty	Bore	Rod diameter
Boom	2	145 mm (5.71")	95 mm (3.74")
Arm	1	150 mm (5.91")	105 mm (4.13")
Bucket	1	145 mm (5.71")	95 mm (3.74")

Hydraulic Filters

All hydraulic circuits use hydraulic filters. A suction filter is built in suction line, and 10 μm full-flow filters in return circuit and swing/travel motor drain lines.



CONTROLS

Pilot controls for all functions. Hitachi original shockless valve and quick warm-up system built in the pilot circuit. Multi rotary pilot control 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 speed	12.0 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 excellent visibility. Front windows (upper and lower) are openable and storable in the cab. Adjustable, reclining seat with armrests. Right and left control levers can be tilted fore and aft.

* International Standard Organization



UNDERCARRIAGE

Tracks

Tractor-type undercarriage. Welded track frame, using carefully selected materials for tough jobs. 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. Triangular shoes 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	2
Lower rollers	8: EX270 9: EX270LC
Track shoes	47: EX270 50: EX270LC
Track guard	1

Traction Device

Each track driven by axial piston motor through reduction gears for counter-rotation of the tracks. Sprockets are replaceable. Parking brake is spring-set/hydraulic-released disc type.

Travel speed	High: 0 to 4.6 km/h (2.9 mph) Low: 0 to 3.7 km/h (2.3 mph)
Maximum traction force	196 kN (20 000 kgf, 44 000 lbf)
Gradeability	35° (70%) continuous

WEIGHTS AND GROUND PRESSURE

Backhoe

Equipped with 6.20 m (20'4") boom, 3.10 m (10'2") arm and 1.15 m³ (1.50 yd³; PCSA heaped) bucket.

Shoe type	Shoe width	Operating weight	Ground pressure
Triple grouser	600 mm (24")	26 000 kg (57 300 lb)	53.0 kPa (0.54 kgf/cm ² , 7.68 psi)
		26 700 kg (58 800 lb)	50.0 kPa (0.51 kgf/cm ² , 7.25 psi)
	800 mm (31")	26 800 kg (59 000 lb)	41.2 kPa (0.42 kgf/cm ² , 5.97 psi)
		27 500 kg (60 600 lb)	38.2 kPa (0.39 kgf/cm ² , 5.55 psi)
Triangular	910 mm (36")	27 300 kg (60 200 lb)	37.3 kPa (0.38 kgf/cm ² , 5.40 psi)
		28 000 kg (61 700 lb)	34.3 kPa (0.35 kgf/cm ² , 4.98 psi)

Figures in  are data on the EX270LC.

Note: Depending on the jobsite conditions, 800 mm (31") grouser shoe, and 910 mm (36") triangular shoes may not be recommended for rock, hard surface or forestry application.

Loading shovel

Equipped with 1.8 m³ (2.35 yd³) bottom dump bucket

Shoe type	Shoe width	Operating weight	Ground pressure
Triple grouser	600 mm (24")	27 600 kg (60 800 lb)	55.9 kPa (0.57 kgf/cm ² , 8.11 psi)

Equipped with 2.0 m³ (2.62 yd³) tilt dump bucket

Shoe type	Shoe width	Operating weight	Ground pressure
Triple grouser	600 mm (24")	26 700 kg (58 700 lb)	54.9 kPa (0.56 kgf/cm ² , 8.0 psi)

Operating weight implies total weight of the basic machine plus 5 400 kg (11 900 lb) counterweight and triple grouser shoes, excluding front-end attachment.

EX270 21 000 kg (46 300 lb)
with 600 mm (24") shoes
EX270LC 22 500 kg (49 600 lb)
with 800 mm (31") shoes

Backhoe buckets

Capacity		Width		No. of teeth	Weight	Recommendation							
PCSA heaped	CECE heaped	without side cutters	With side cutters			EX270				EX270LC			
						2.00 m (6'7") arm	2.40 m (7'10") arm	3.10 m (10'2") arm	3.75 m (12'4") arm	2.00 m (6'7") arm	2.40 m (7'10") arm	3.10 m (10'2") arm	3.75 m (12'4") arm
0.92 m ³ (1.20 yd ³)	0.80 m ³	1 120 mm (44")	—	4	985 kg (2 170 lb)	●	●	●	⊙	●	●	●	⊙
1.05 m ³ (1.37 yd ³)	0.90 m ³	1 160 mm (46")	1 300 mm (51")	5	804 kg (1 770 lb)	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
1.15 m ³ (1.50 yd ³)	1.00 m ³	1 220 mm (48")	1 350 mm (53")	5	880 kg (1 940 lb)	⊙	⊙	⊙	○	⊙	⊙	⊙	⊙
1.39 m ³ (1.82 yd ³)	1.20 m ³	1 420 mm (56")	1 550 mm (61")	5	1 020 kg (2 250 lb)	—	○	○	—	—	○	○	□
1.62 m ³ (2.12 yd ³)	1.40 m ³	1 620 mm (64")	—	5	1 000 kg (2 200 lb)	—	□	□	—	—	□	□	—
Ripper bucket: 0.70 m ³ (0.92 yd ³ ; CECE heaped) Width 1 000 mm (39")					3	1 300 kg (2 860 lb)	●	●	●	—	●	●	—
One-point ripper					1	850 kg (1 880 lb)	—	●	●	—	●	●	—
Clamshell bucket: 0.60 m ³ (0.78 yd ³ ; CECE heaped) Width 940 mm (37")					8	1 220 kg (2 690 lb)	—	⊙	⊙	—	⊙	⊙	⊙



SERVICE REFILL CAPACITIES

	liters	US gal	Imp gal
Fuel tank	310.0	81.9	68.2
Engine coolant	29.0	7.7	6.4
Engine oil	27.0	7.1	5.9
Pump drive	0.8	0.2	0.2
Swing mechanism	10.0	2.6	2.2
Travel final device	7.5	2.0	1.7
(each side)			
Hydraulic system	300.0	79.3	66.0
Hydraulic tank	142.0	37.5	31.2



BACKHOE ATTACHMENTS

Boom and arms are of all-welded, low-stress, full-box section design. 6.20 m (20'4") boom, and 2.00 m (6'7"), 2.40 m (7'10"), 3.10 m (10'2") and 3.75 m (12'4") arms are available. Bucket of all-welded, high-strength steel structure. Side clearance adjust mechanism provided on the bucket joint bracket.



LOADING SHOVEL ATTACHMENTS

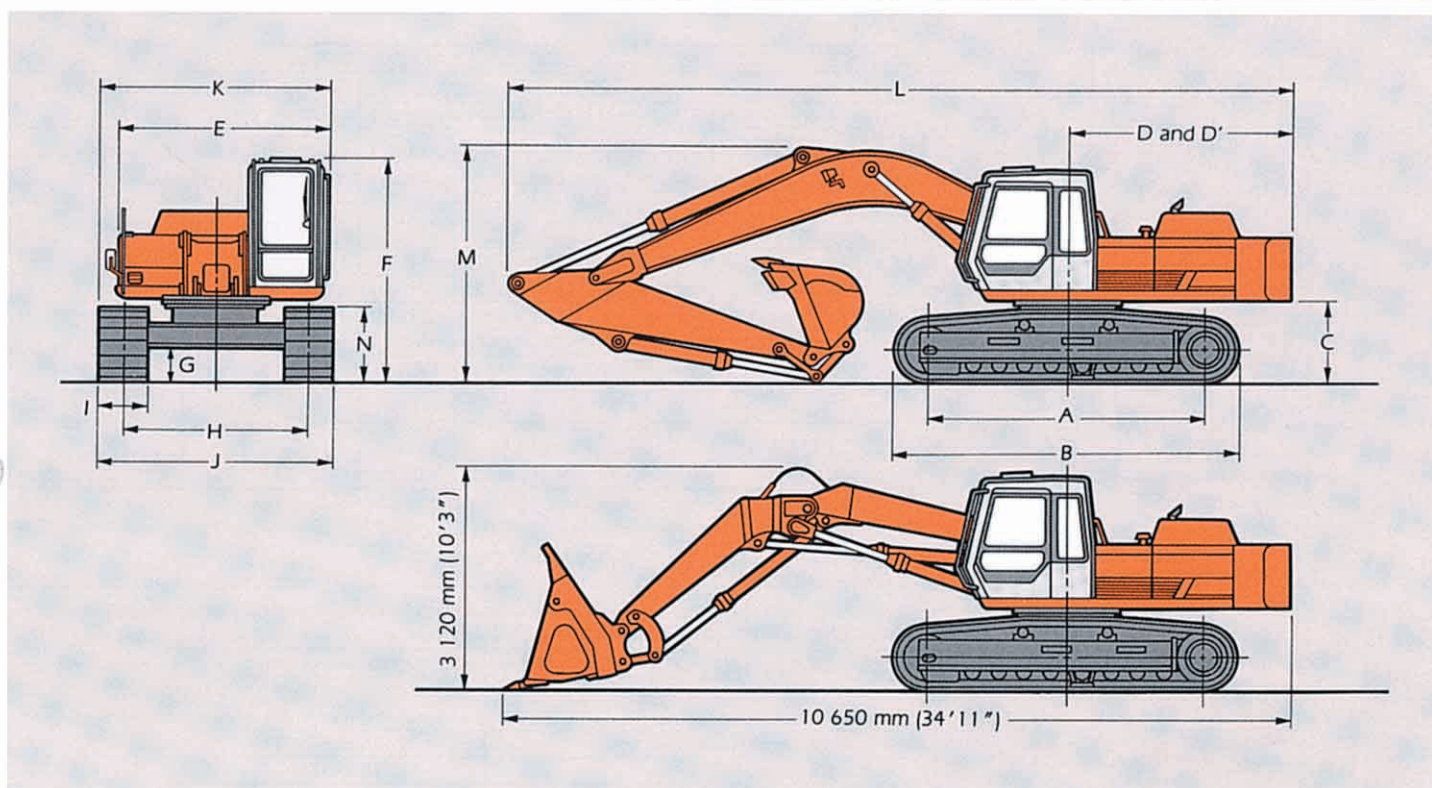
Boom and arm are of all-welded, low-stress full-box section design. Efficient, automatic horizontal crowding achieved by one-lever control because the parallel link mechanism keeps the bucket digging angle constant, and bucket height constant.

Loading shovel buckets

Capacity	Width	Weight	Type
1.6 m ³ (2.09 yd ³)	1 600 mm (5'3")	2 230 kg (4 920 lb)	Bottom dump type rock bucket
1.8 m ³ (2.35 yd ³)	1 660 mm (5'6")	2 110 kg (4 640 lb)	Bottom dump type general-purpose bucket
1.6 m ³ (2.09 yd ³)	1 670 mm (5'6")	1 560 kg (3 400 lb)	Tilt dump type rock bucket
2.0 m ³ (2.60 yd ³)	1 760 mm (5'10")	1 240 kg (2 730 lb)	Tilt dump type general-purpose bucket

● 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
— Not recommended

DIMENSIONS

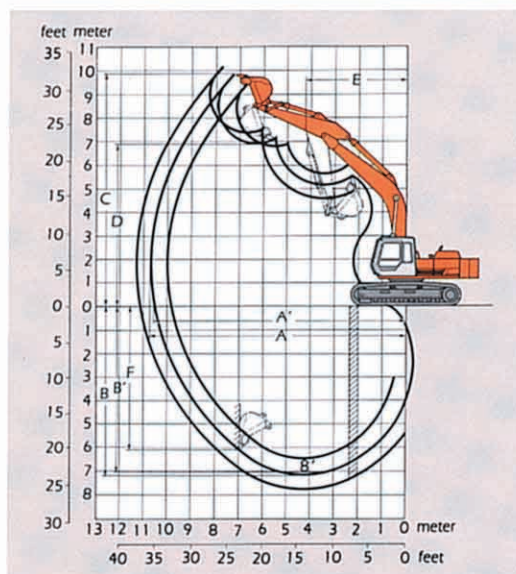


	EX270	EX270LC
A Distance between tumblers	3 710 mm (12'2")	4 010 mm (13'2")
B Undercarriage length	4 570 mm (15'0")	4 870 mm (16'0")
*C Counterweight clearance	1 130 mm (3'8")	1 130 mm (3'8")
D Rear-end swing radius	3 030 mm (9'11")	3 030 mm (9'11")
D' Rear-end length	3 010 mm (9'11")	3 010 mm (9'11")
E Overall width of upperstructure	2 800 mm (9'2")	2 800 mm (9'2")
F Overall height of cab	2 990 mm (9'10")	2 990 mm (9'10")
*G Min. ground clearance	480 mm (1'7")	480 mm (1'7")
H Track gauge	2 590 mm (8'6")	2 590 mm (8'6")
I Track shoe width	G600 mm (24")	G800 mm (31")
J Undercarriage width	3 190 mm (10'6")	3 390 mm (11'1")
K Overall width	3 190 mm (10'6")	3 390 mm (11'1")
L Overall length		
With 2.00 m (6'7") arm	10 630 mm (34'11")	10 630 mm (34'11")
With 2.40 m (7'10") arm	10 570 mm (34'8")	10 570 mm (34'8")
With 3.10 m (10'2") arm	10 450 mm (34'3")	10 450 mm (34'3")
With 3.75 m (12'4") arm	10 470 mm (34'4")	10 470 mm (34'4")
M Overall height of boom		
With 2.00 m (6'7") arm	3 450 mm (11'4")	3 450 mm (11'4")
With 2.40 m (7'10") arm	3 350 mm (11'0")	3 350 mm (11'0")
With 3.10 m (10'2") arm	3 170 mm (10'5")	3 170 mm (10'5")
With 3.75 m (12'4") arm	3 250 mm (10'8")	3 250 mm (10'8")
N Track height	1 000 mm (3'3")	1 010 mm (3'4")

* Excluding track shoe lug.

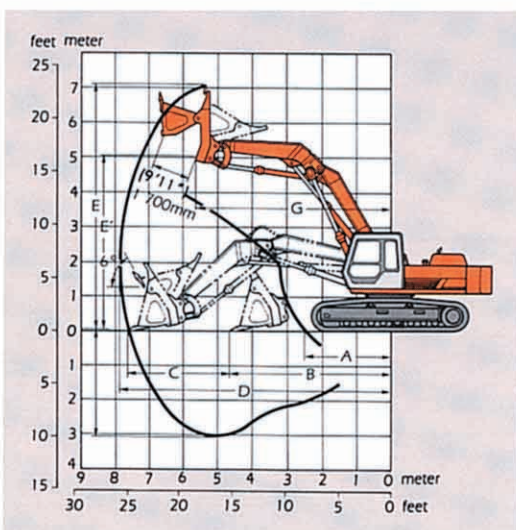
G: Triple grouser shoe

WORKING RANGES



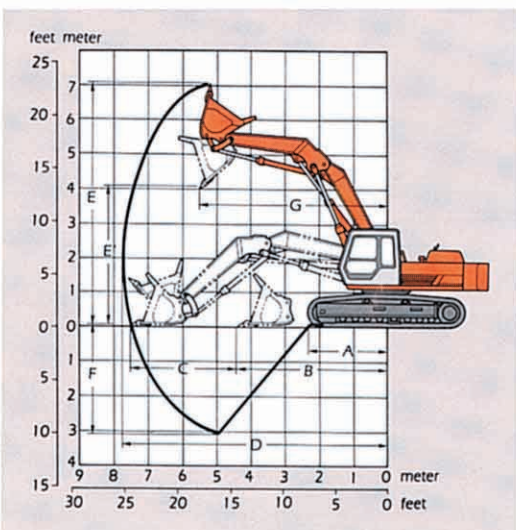
Backhoe

Arm length	EX270/EX270LC			
	2.00 m (6'7")	2.40 m (7'10")	3.10 m (10'2")	3.75 m (12'4")
A Max. digging reach	9 700 mm (31'10")	10 060 mm (33'0")	10 710 mm (35'2")	11 320 mm (37'2")
A' Max. digging reach (on ground)	9 490 mm (31'2")	9 860 mm (32'4")	10 520 mm (34'6")	11 150 mm (36'7")
B Max. digging depth	6 140 mm (20'2")	6 540 mm (21'5")	7 230 mm (23'9")	7 870 mm (25'10")
B' Max. digging depth (8° level)	5 900 mm (19'4")	6 320 mm (20'9")	7 050 mm (23'2")	7 730 mm (25'4")
C Max. cutting height	9 360 mm (30'9")	9 530 mm (31'3")	9 880 mm (32'5")	10 170 mm (33'4")
D Max. dumping height	6 500 mm (21'4")	6 670 mm (21'11")	6 980 mm (22'11")	7 330 mm (24'1")
E Min. swing radius	4 410 mm (14'6")	4 350 mm (14'3")	4 160 mm (13'8")	4 150 mm (13'7")
F Max. vertical wall	4 790 mm (15'9")	5 260 mm (17'3")	6 100 mm (20'0")	6 740 mm (22'1")
Bucket digging force	178 kN (18 100 kgf, 39 900 lbf)	149 kN (15 200 kgf, 33 500 lbf)	149 kN (15 200 kgf, 33 500 lbf)	149 kN (15 200 kgf, 33 500 lbf)
Arm crowd force	166 kN (16 900 kgf, 37 300 lbf)	138 kN (14 100 kgf, 31 000 lbf)	110 kN (11 200 kgf, 24 700 lbf)	96 kN (9 800 kgf, 21 600 lbf)



Loading shovel (Bottom dump type)

A Min. digging distance	2 500 mm (8'2")
B Min. level crowding distance	4 680 mm (15'4")
C Level crowding distance	2 960 mm (9'9")
D Max. digging reach	7 950 mm (26'1")
E Max. cutting height	7 160 mm (23'6")
E' Max. dumping height	5 020 mm (16'6")
F Max. digging depth	3 190 mm (10'6")
G Working radius at max. dumping height	5 650 mm (18'6")
Crowding force	171 kN (17 400 kgf, 38 400 lbf)
Breakout force	196 kN (20 000 kgf, 44 100 lbf)



Loading shovel (Tilt dump type)

A Min. digging distance	2 230 mm (7'4")
B Min. level crowding distance	4 660 mm (15'3")
C Level crowding distance	2 960 mm (9'9")
D Max. digging reach	7 930 mm (26'0")
E Max. cutting height	7 120 mm (23'4")
E' Max. dumping height	3 780 mm (12'5")
F Max. digging depth	3 170 mm (10'5")
G Working radius at max. dumping height	5 660 mm (18'7")
Crowding force	174 kN (17 800 kgf, 39 200 lbf)
Breakout force	194 kN (19 800 kgf, 43 700 lbf)



STANDARD EQUIPMENT

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

ENGINE

- 25 A alternator
- Dry-type air filter with evacuator valve
- Cartridge-type engine oil 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

- ETS
- E-P control system (power mode selector)
- OHS
- FPS
- Quick warm-up system for pilot circuit
- Shockless valve in pilot circuit
- Accumulator in pilot circuit
- 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, and lower and both side windows with windshield wipers, side mirror (North America only), adjustable reclining seat with armrests, footrest, electric double horn, car radio with digital clock, auto-idle switch, seat belt (North America only), cigarette lighter (except North America), ashtray, parcel pocket, 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 oil filter clog, engine overheat, air filter clog and minimum fuel level.
- Pilot lamps: Engine preheat, engine oil level, engine coolant level and hydraulic oil level, auto idling, low-speed travel and high-speed travel.
- Alarm buzzers: Engine oil pressure and engine overheat.

LIGHTS

- 2 working lights and 1 cab light

UPPERSTRUCTURE

- Undercover
- 5 400 kg (11 900 lb) counterweight
- Fuel level gauge
- Hydraulic oil level gauge
- Tool box
- Rearview mirror
- Swing parking brake

UNDERCARRIAGE

- Travel parking brake
- Travel motor covers
- Track guards and hydraulic track adjuster
- Bolt-on sprocket
- Upper rollers and lower rollers
- Reinforced track links with pin seals
- 600 mm (24") triple grouser shoes: EX270
- 800 mm (31") triple grouser shoes: EX270LC

FRONT ATTACHMENTS

- Bucket clearance adjust mechanism
- Centralized lubrication system
- Dirt seals on all bucket pins
- 3.10 m (10'2") arm
- 1.15 m³ (1.50 yd³: PCSA heaped) bucket

MISCELLANEOUS

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



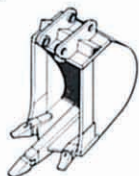
OPTIONAL EQUIPMENT

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

- Headguard
- Seat belt
- Multi selection lever with rotary valve
- Electric fuel refilling pump
- Swing alarm with lamps
- Travel alarm with cancel switch
- Window washer
- Hose rupture valve

- Ripper bucket for ripping and loading hardpan
- One-point ripper for ripping hardpan
- Clamshell bucket for deep, vertical excavations like manholes, pilings, footings, etc.

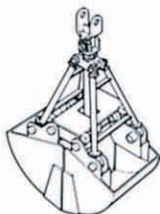
Type of Bucket



Ripper bucket



One-point ripper

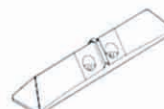


Clamshell bucket

Type of Shoe



Triple grouser shoe
800 mm (31")



Triangular shoe
910 mm (36")

LIFTING CAPACITIES

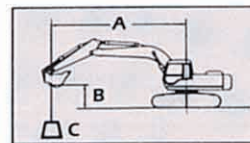
METRIC MEASURE

EX270

6.20 m boom
2.00 m arm

Equipped with 1.15 m³ (PCSA heaped) bucket and 600 mm shoes.

Unit: 1 000 kg



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

Rating over-side or 360 degrees

Rating over-front

Load point height	Load radius										At max. reach		
	4 m		5 m		6 m		7 m		8 m				
												60 m	
6 m							4.85	*4.88			3.33	*4.77	8.56
4 m					5.88	*6.22	4.57	*5.55	3.62	*5.22	2.77	4.09	9.20
2 m					5.29	7.91	4.21	6.22	3.40	5.03	2.60	3.90	9.31
0 (Ground)					5.02	7.62	3.98	5.98	3.25	4.86	2.76	4.13	8.91
-2 m			6.76	*7.82	5.03	7.62	3.96	5.96			3.26	4.88	7.89
-4 m	*9.90	*9.90	7.02	*9.08	5.26	*7.61							

6.20 m boom
2.40 m arm

Equipped with 1.15 m³ (PCSA heaped) bucket and 600 mm shoes.

Unit: 1 000 kg

Load point height	Load radius										At max. reach		
	4 m		5 m		6 m		7 m		8 m				
													66 m
5 m					*5.03	*5.03	*4.78	*4.78	3.79	*4.71	2.80	*4.10	9.34
4 m			*6.93	*6.93	*5.86	*5.86	4.69	*5.27	3.70	*4.96	2.61	3.93	9.57
2 m			5.58	*9.28	5.49	*7.76	4.33	6.47	3.48	5.21	2.46	3.76	9.68
1 m			6.37	9.85	5.28	8.04	4.19	6.31	3.39	5.10	2.49	3.81	9.55
0 (Ground)			6.76	*7.83	5.16	7.91	4.08	6.20	3.31	5.03	2.59	3.96	9.29
−2 m	10.0	*10.1	6.85	*10.4	5.11	7.85	4.02	6.13	3.27	4.98	3.13	4.74	8.33
−4 m	10.3	*10.8	7.05	*9.76	5.26	8.02	4.17	6.30					
−5 m	*9.87	*9.87	7.26	*8.31	5.48	*6.69							

6.20 m boom
3.10 m arm

Equipped with 1.15 m³ (PCSA heaped) bucket and 600 mm shoes.

Unit: 1 000 kg

Load point height	Load radius										At max. reach		
	4 m		5 m		6 m		7 m		8 m				
													(m)
6 m									*3.91	*3.91	*2.52	*2.52	9.67
4 m			*5.29	*5.29	*5.03	*5.03	*4.63	*4.63	3.74	*4.40	*2.27	*2.58	10.2
2 m			7.38	*9.00	5.60	*7.04	4.38	*5.94	3.49	5.23	2.14	*2.79	10.3
1 m			7.03	*10.2	5.35	*7.92	4.21	6.34	3.38	5.10	2.15	*2.96	10.2
0 (Ground)			6.84	10.7	5.18	7.93	4.07	6.20	3.28	5.00	2.23	*3.20	9.97
−2 m	*8.59	*8.59	6.75	10.6	5.04	7.78	3.95	6.06	3.19	4.90	2.62	*3.98	9.09
−4 m	10.1	*12.1	6.88	*10.4	5.11	7.86	4.01	6.12			3.75	*5.45	7.47
−5 m	10.3	*11.4	7.03	*9.38	5.24	*7.75	4.14	*6.24					

6.20 m boom
3.75 m arm

Equipped with 1.05 m³ (PCSA heaped) bucket and 600 mm shoes.

Unit: 1 000 kg

Load point height	Load radius										At max. reach		
	3 m		4 m		6 m		8 m		9 m				
													6 m
6 m							*3.34	*3.34	3.14	*3.16	*2.01	*2.01	10.3
4 m					*4.09	*4.09	3.83	*3.91	3.04	*3.85	*2.05	*2.05	10.8
2 m			10.7	*11.0	5.73	*6.29	3.55	*4.83	2.86	4.31	1.93	*2.21	10.9
1 m			*6.09	*6.09	5.44	*7.23	3.41	5.14	2.76	4.21	1.94	*2.34	10.8
0 (Ground)			*6.43	*6.43	5.21	7.98	3.29	5.01	2.68	4.12	1.99	*2.52	10.6
-2 m	*6.52	*6.52	9.65	*10.5	4.98	7.72	3.15	4.86	2.59	4.02	2.29	*3.11	9.78
-4 m	9.71	*9.71	9.81	*12.9	4.99	7.73	3.16	4.87	3.08	*4.33	3.08	*4.33	8.34
-6 m	*13.5	*13.5	10.2	*10.8	5.24	*7.23							

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) located on the back of the bucket.

4. *Indicates load limited by hydraulic capacity.

ENGLISH MEASURE

EX270

20'4" boom
6'7" arm

 Rating over-side or 360 degrees

 Rating over-front

Equipped with 1.50 cu yd (PCSA heaped) bucket and 24" shoes.

Unit: 1 000 lb

Load point height	Load radius										At max. reach		
	10 ft		15 ft		20 ft		25 ft		ft		ft		ft in
													
20 ft							*10.68	*10.68			7.43	*10.48	27'11"
15 ft							*12.52	*12.52	8.86	*11.31	6.35	9.33	29'9"
10 ft							12.00	*15.38	8.42	*12.32	5.85	8.70	30'7"
5 ft							11.19	16.79	7.99	11.86	5.75	8.62	30'5"
0 (Ground)							10.81	16.37	7.72	11.56	6.08	9.11	29'3"
-5 ft							10.77	16.32	7.66	11.50	7.02	10.46	26'11"
-10 ft					17.61	*19.53	10.99	16.57			9.28	*9.85	23'0"
-15 ft					18.29	*19.38							

20'4" boom
7'10" arm

Equipped with 1.50 cu yd (PCSA heaped) bucket and 24" shoes.

Unit: 1 000 lb

Load point height	Load radius										At max. reach		
	10 ft		15 ft		20 ft		25 ft		30 ft		ft		ft in
													
20 ft							9.31	*10.1			6.91	*8.99	29'2"
15 ft					*11.7	*11.7	9.07	*10.7			5.97	8.95	31'0"
10 ft					12.4	*14.7	8.64	*12.1			5.53	8.38	31'8"
5 ft					11.6	17.5	8.20	12.3	6.00	9.10	5.44	8.31	31'6"
0 (Ground)					11.1	17.0	7.89	12.0			5.71	8.73	30'5"
-5 ft			17.5	*19.1	11.0	16.9	7.77	11.8			6.49	9.86	28'3"
-10 ft	*26.3	*26.3	17.8	*23.1	11.1	17.0	7.89	12.0			8.29	*11.7	24'7"
-15 ft			18.3	*21.5	11.5	*16.2							

20'4" boom
10'2" arm

Equipped with 1.50 cu yd (PCSA heaped) bucket and 24" shoes.

Unit: 1 000 lb

Load point height	Load radius										At max. reach		
	10 ft		15 ft		20 ft		25 ft		30 ft		ft		ft in
													
20 ft							*8.45	*8.45			*5.56	*5.56	31'6"
15 ft							9.19	*9.33	6.40	*8.26	5.19	*5.61	33'2"
10 ft			*18.1	*18.1	12.7	*13.0	8.72	*10.9	6.20	9.33	4.81	*5.86	33'9"
5 ft			18.1	*23.1	11.8	*16.2	8.23	12.3	5.95	9.06	4.72	*6.31	33'7"
0 (Ground)			17.3	*21.0	11.1	17.1	7.84	11.9	5.75	8.84	4.91	*7.05	32'7"
-5 ft	*10.6	*10.6	17.2	*22.8	10.9	16.7	7.63	11.7	5.65	8.74	5.49	*8.25	30'7"
-10 ft	*21.9	*21.9	17.4	*26.4	10.9	16.7	7.62	11.7			6.74	10.3	27'5"
-15 ft	*22.7	*22.7	17.8	*23.7	11.1	17.0							

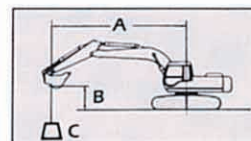
20'4" boom
12'4" arm

Equipped with 1.37 cu yd (PCSA heaped) bucket and 24" shoes.

Unit: 1 000 lb

Load point height	Load radius										At max. reach		
	10 ft		15 ft		20 ft		25 ft		30 ft		ft		ft in
													
20 ft									*6.16	*6.16	*4.43	*4.43	33'6"
15 ft							*8.15	*8.15	6.57	*8.23	*4.47	*4.47	35'2"
10 ft			*14.7	*14.7	*11.3	*11.3	8.90	*9.77	6.32	*9.05	4.35	*4.65	35'8"
5 ft			18.7	*21.6	12.0	*14.7	8.35	*11.7	6.02	9.14	4.25	*5.00	35'7"
0 (Ground)			17.4	*25.8	11.2	17.1	7.87	12.0	5.75	8.85	4.39	*5.56	34'7"
-5 ft	*11.7	*11.7	17.0	27.2	10.8	16.7	7.57	11.6	5.58	8.67	4.82	*6.46	32'9"
-10 ft	*20.2	*20.2	17.0	*27.0	10.7	16.5	7.47	11.5	5.57	8.66	5.74	*7.98	29'9"
-15 ft	*24.7	*24.7	17.3	*25.2	10.8	16.7	7.60	11.7			7.75	*11.0	25'5"
-20 ft	*28.9	*28.9	18.0	20.9	11.3	15.3							

METRIC MEASURE



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

EX270LC:

Rating over-side or 360 degrees

Rating over-front

6.20 m boom
2.00 m arm

Equipped with 1.15 m³ (PCSA heaped) bucket and 800 mm shoes.

Unit: 1 000 kg

Load point height	Load radius m										At max. reach		
	4 m		5 m		6 m		7 m		8 m				m
6 m							*4.88	*4.88			3.57	*4.77	8.56
4 m					*6.22	*6.22	4.87	*5.55	3.88	*5.22	2.99	4.88	9.20
2 m					5.66	*8.02	4.51	*6.65	3.66	*5.87	2.82	4.67	9.31
0 (Ground)					5.39	*9.00	4.29	7.17	3.51	5.83	2.98	4.96	8.91
-2 m			7.23	*7.82	5.39	*8.94	4.26	7.15			3.52	5.85	7.89
-4 m	*9.90	*9.90	7.49	*9.08	5.63	*7.61							

6.20 m boom
2.40 m arm

Equipped with 1.15 m³ (PCSA heaped) bucket and 800 mm shoes.

Unit: 1 000 kg

Load point height	Load radius m										At max. reach		
	4 m		5 m		6 m		7 m		8 m				m
5 m					*5.03	*5.03	*4.78	*4.78	4.05	*4.71	3.02	*4.10	9.34
4 m			*6.93	*6.93	*5.86	*5.86	4.99	*5.27	3.96	*4.96	2.82	*4.17	9.57
2 m					5.85	*7.76	4.63	*6.48	3.74	*5.71	2.67	*4.50	9.68
1 m					5.65	*8.50	4.49	*7.01	3.64	*6.08	2.70	4.62	9.55
0 (Ground)					5.53	*8.97	4.39	*7.41	3.57	*6.08	2.80	4.80	9.29
-2 m	*10.1	*10.1	7.32	*10.4	5.48	*9.15	4.32	7.43	3.53	6.04	3.37	5.73	8.33
-4 m	*10.8	*10.8	7.52	*9.76	5.63	*8.17	4.48	*6.70			4.48	*6.70	7.00
-5 m	*9.87	*9.87	7.73	*8.31	5.85	*6.69					5.85	*6.69	6.00

6.20 m boom
3.10 m arm

Equipped with 1.15 m³ (PCSA heaped) bucket and 800 mm shoes.

Unit: 1 000 kg

Load point height	Load radius m										At max. reach		
	4 m		5 m		6 m		7 m		8 m				m
6 m									*3.91	*3.91	*2.52	*2.52	9.66
4 m					*5.03	*5.03	*4.63	*4.63	4.00	*4.40	2.46	*2.58	10.2
2 m			7.85	*9.00	5.97	*7.04	4.68	*5.94	3.75	*5.26	2.33	*2.79	10.3
1 m			7.50	*10.2	5.72	*7.92	4.51	*6.56	3.63	*5.70	2.35	*2.96	10.2
0 (Ground)			7.31	*10.9	5.55	*5.57	4.38	*7.06	3.54	6.05	2.43	*3.20	9.97
-2 m	*8.59	*8.59	7.22	*11.2	5.41	*9.11	4.25	7.36	3.44	5.95	2.84	*3.98	9.10
-4 m	10.7	*12.1	7.35	*10.4	5.48	*8.61	4.31	*7.18			4.03	*5.45	7.48
-5 m	10.9	*11.4	7.50	*9.38	5.61	*7.75	4.45	*6.24			4.45	*6.24	7.00

6.20 m boom
3.75 m arm

Equipped with 1.05 m³ (PCSA heaped) bucket and 800 mm shoes.

Unit: 1 000 kg

Load point height	Load radius m										At max. reach		
	3 m		4 m		6 m		8 m		9 m				m
6 m							*3.34	*3.34	*3.16	3.16	*2.01	*2.01	10.3
4 m							*3.91	*3.91	3.26	*3.85	*2.05	*2.05	10.8
2 m			*11.0	*11.0	6.10	*6.29	3.80	*4.83	3.08	*4.47	2.11	*2.21	10.9
1 m			*6.07	*6.07	5.81	*7.28	3.67	*5.32	2.99	*4.81	2.12	*2.34	10.8
0 (Ground)			*6.43	*6.43	5.58	*8.07	3.55	*5.75	2.91	5.01	2.18	*2.52	10.6
-2 m			10.3	*10.5	5.35	*8.95	3.41	5.91	2.81	4.91	2.49	*3.11	9.78
-4 m			10.5	*12.9	5.36	*8.84	3.42	5.92	3.32	*4.33	3.32	*4.33	8.34
-6 m			10.9	*10.8	5.61	*7.23							

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.

ENGLISH MEASURE

EX270LC

20'4" boom
6'7" arm

Equipped with 1.50 cu yd (PCSA heaped) bucket and 31" shoes.

Unit: 1 000 lb



Rating over-side or 360 degrees



Rating over-front

Load point height	Load radius										At max. reach		
			10 ft		15 ft		20 ft		25 ft				
													ft in
20 ft							*10.68	*10.68			7.96	*10.48	27'11"
15 ft							*12.52	*12.52	9.46	*11.31	6.84	*10.91	29'09"
10 ft							12.80	*15.38	9.02	*12.52	6.32	10.40	30'07"
5 ft							11.99	*18.03	8.59	*13.91	6.23	10.34	30'05"
0 (Ground)							11.61	*19.45	8.32	13.86	6.58	10.93	29'03"
−5 ft							11.56	*19.58	8.26	13.80	7.57	12.51	26'11"
−10 ft					18.79	*19.53	11.78	*18.38			*9.85	*9.85	23'00"
−15 ft					19.38	*19.38							

20'4" boom
7'10" arm

Equipped with 1.50 cu yd (PCSA heaped) bucket and 31" shoes.

Unit: 1 000 lb

Load point height	Load radius										At max. reach		
	10 ft		15 ft		20 ft		25 ft		30 ft				
													in ft
20 ft							9.91	*10.1			7.40	*8.99	29'3"
15 ft					*11.7	*11.7	9.67	*10.7			6.44	*9.09	31'0"
10 ft					13.2	*14.7	9.24	*12.1			5.98	*9.48	31'9"
5 ft					12.4	*17.6	8.80	*13.6	6.49	11.0	5.89	10.1	31'7"
0 (Ground)					11.9	*19.4	8.49	14.5			6.18	10.6	30'6"
-5 ft			18.7	*19.1	11.8	*19.9	8.37	14.3			7.01	11.9	28'3"
-10 ft	*26.3	*26.3	18.9	*23.1	11.9	*19.1	8.49	14.5			8.90	*11.7	24'8"
-15 ft			19.5	*21.5	12.3	*16.2							
-20 ft													

20'4" boom
10'2" arm

Equipped with 1.50 cu yd (PCSA heaped) bucket and 31" shoes.

Unit: 1 000 lb

Load point height	Load radius										At max. reach		
	10 ft		15 ft		20 ft		25 ft		30 ft				
													or ft in
20 ft							*8.45	*8.45			*5.56	*5.56	31'7"
15 ft							*9.33	*9.33	6.89	*8.26	*5.61	*5.61	33'2"
10 ft			*18.1	*18.1	*13.0	*13.0	9.32	*10.9	6.69	*9.95	5.23	*5.86	31'11"
5 ft			19.2	*23.1	12.6	*16.2	8.83	*12.6	6.44	*10.9	5.14	*6.31	33'9"
0 (Ground)			18.5	*21.0	11.9	*18.5	8.44	*14.1	6.23	10.8	5.35	*7.05	32'9"
−5 ft	*10.6	*10.6	18.4	*22.8	11.7	*19.6	8.23	14.2	6.14	10.6	5.96	*8.25	30'8"
−10 ft	*21.9	*21.9	18.6	*26.4	11.7	*19.5	8.22	14.2			7.28	*10.3	27'6"
−15 ft	*22.7	*22.7	19.0	*23.7	11.9	*17.7							
−20 ft													

20'4" boom
12'4" arm

Equipped with 1.37 cu yd (PCSA heaped) bucket and 24" shoes.

Unit: 1 000 lb

Load point height	Load radius										At max. reach		
	10 ft		15 ft		20 ft		25 ft		30 ft				
													in ft in
20 ft									*6.16	*6.16	*4.43	*4.43	33'8"
15 ft							*8.15	*8.15	7.06	*8.23	*4.47	*4.47	35'2"
10 ft			*14.7	*14.7	*11.3	*11.3	9.50	*9.77	6.80	*9.05	*4.65	*4.65	35'10"
5 ft			19.8	*21.6	12.8	*14.7	8.95	*11.7	6.50	*10.1	4.65	*5.00	35'8"
0 (Ground)			18.6	*25.8	12.0	*17.4	8.48	*13.4	6.23	10.8	4.80	*5.56	34'9"
−5 ft	*11.7	*11.7	18.2	*27.3	11.6	*19.1	8.17	14.1	6.06	10.6	5.26	*6.46	32'11"
−10 ft	*20.2	*20.2	18.2	*27.0	11.5	*19.5	8.07	14.0	6.05	10.6	6.23	*7.98	29'11"
−15 ft	*24.7	*24.7	18.5	*25.1	11.6	*18.6	8.21	*14.1			8.34	*11.0	25'5"
−20 ft	*28.9	*28.9	19.2	*20.9	12.1	*15.3							