

# QUICK

Smooth, rapid movements and efficient level retraction. The Hitachi EX220 intelligent hydraulic excavator comes with a new level of productivity never before available.

RESPONSE 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 le 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 EX220 also permits direct access to the skill of an experienced operator thanks to numerous advanced features.

The EX220 is Hitachi's answer to the needs of increasingly tough construction jobs.



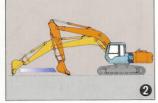
- More Production with More Power: Excavation and dumping speeds are increased by increasing the pump delivery flow. Swing
- Efficient Slope Finishing and Grading: Efficient level retraction is the big feature. This allows quick, smooth finishing works, like slope finishing and grading.
- Rapid, Sure 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 comfortdesigned 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 pilotcontrol 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 lowtemperature and endurance tests, demonstrating Hitachi's traditional durability.

# Impressive Versatility









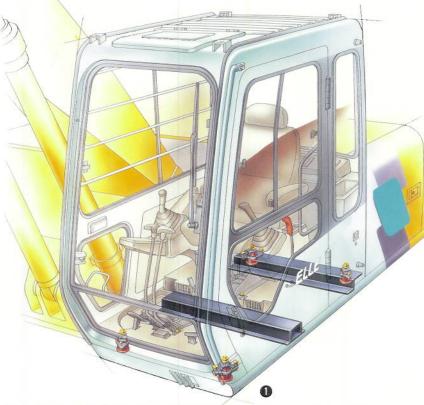




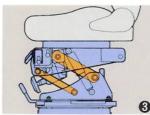
Versatility means productivity: The EX220 is designed keeping in mind versatility, operating efficiency and production, using a variety of front attachments. What's more, optional attachments are applicable through the extra port for added versatility.

- 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 5% to 6% without increase in fuel consumption (compared to our conventional model).
- @ 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.
- Rapid Response: Even a slight movement of the control lever is converted into brisk up-anddown 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.
- 3 Smooth Ride: The improved travel shockless relief valve and damper reduce shocks at start and stop of travel. The rugged cab bed and fluidfilled elastic mount help reduce shocks and vibration during travel. These designs ensure smooth ride, reducing operator fatigue.
- 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 reguirements, at one touch of a switch.
- 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.
- Power digging to increase the digging speed as needed.
- 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



















- 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.

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 fatique.

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

6 Ergonomically Designed Control

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

- 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.
- 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.

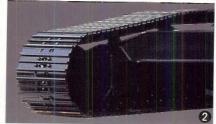
Air Conditioner (Optional): An air conditioner, using a freon substitute, maintains the operator comfort all year around, increasing operating efficiency.



# The Edge of Mechatronics

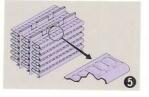














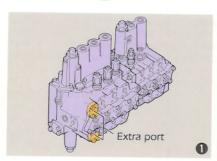
- Sturdy X-type track frame.
- Large reinforced trak links with pin seals.
- Working light provided at the bottom of cab for night-shift work.
- Positive swing parking brake..
- Quick warm-up system for pilot circuit.
- Bucket clearance adjust mechanism.
- Hydraulic warm-up control system for engine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

From the Hitachi EX220, 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 EX220 is the fruit of this design approach.

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





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. Attachment Mode Optionally Available: The attachment mode can be selected with the attachment selection switch according to the

attachment used. This makes combined opera-

tion smooth.



# **ENGINE**

Type	Hino H06C-T 4-cycle water-cooled, direct injection Turbocharged
No. of cylinders	6
Rated flywheel	8 kW (160 PS) at 2 100 min <sup>-1</sup> (rpm)
Rated flywheel	kW (156 HP) at 2 100 min <sup>-1</sup> (rpm)
Maximum torque	530 N.m (54 kgf.m, 390 lbf.ft) at 1 800 rpm
Piston displacement	6.49 L (396 in <sup>3</sup> )
Bore and stroke 10	8 mm × 118 mm (4.25" × 4.65")
Batteries	2 × 12 V, 120 AH
Governor	Mechanical, speed control with stepping motor



# HYDRAULIC SYSTEM

 ${\tt ELLE~(Electronic~Load-sensing~Excavation)}~system~designed~for~job~efficiency~and~controllability.$ 

- 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 pumps ...... 2 variable displacement axial piston pumps

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 <sup>2</sup> , 4	980 psi)
Swing circuit	32.2	MPa	(328	kgf/cm <sup>2</sup> , 4	660 psi)
Travel circuit	36.3	MPa	(370	kgf/cm <sup>2</sup> , 5	260 psi)
Pilot circuit				kgf/cm <sup>2</sup> ,	

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	125 mm (4.92")	90 mm (3.54 "
Arm	1	135 mm (5.32")	100 mm (3.94 "
Bucket	1	125 mm (4.92")	85 mm (3.35")

Hydraulic Filters

Hydraulic circuits use high-quality hydraulic filters. A suction filter is incorporated in the suction line, and  $10 \mu m$  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

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.

# 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	2	
Lower rollers	8:	EX220-3
	9:	EX220LC-3
Track shoes	47:	EX220-3
	51:	EX220LC-3
Track guard	1	

**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 speed	High:	0 to	5.5	km/h	(3.4	mph
	Medium:	0 to	3.5	km/h	12.2	mph
	Low:	0 to	2.2	km/h	(1.4	mph)
Maximum traction force	176.5 kN	V (18	000	kgf,	39 70	00 lbf
Gradeability		35	0 17	0%)	contir	านอน

<sup>\*</sup> International Standard Organization



# WEIGHTS AND GROUND PRESSURE

Equipped with 6.00 m (19'8") boom, 2.96 m (9'9") arm and 1.05 m<sup>3</sup> (1.37 yd<sup>3</sup>: PCSA heaped) bucket.

Shoe type	Shoe width	Operating weight	Ground pressure
Triple grouser	600 mm	22 500 kg (49 600 lb)	48.1 kPa (0.49 kgf/cm², 6.97 psi)
	(24")	23 100 kg (50 900 lb)	45.1 kPa (0.46 kgf/cm², 6.54 psi)
	800 mm	23 100 kg (50 900 lb)	36.3 kPa (0.37 kgf/cm², 5.26 psi)
		(31")	23 800 kg (52 500 lb)
	900 mm (35 ″)	23 900 kg (52 700 lb)	34.3 kPa (0.35 kgf/cm², 4.98 psi)
Triangular		24 700 kg (54 500 lb)	32.4 kPa (0.33 kgf/cm², 4.69 psi)
	600 mm	23 400 kg	
Flat	(24")	23 700 kg (52 300 lb)	46.1 kPa (0.47 kgf/cm², 6.68 psi)

Figures in \_\_\_\_\_ are data on the EX220LC-3.

Operating weight is the total weight of the basic machine plus 5 050 kg (11 100 lb) counterweight and triple grouser shoes, excluding frontend attachement.

EX220-3	18 100 kg (39 900 lb)
EX220LC-3	with 600 mm (24") shoes 19 400 kg (42 800 lb)
	with 800 mm (31") shoes

# SERVICE REFILL CAPACITIES

	liters	US gal	Imp gal
Fuel tank	310.0	81.9	68.2
Engine coolant	27.0	7.1	5.9
Engine oil	26.0	6.9	5.7
Swing mechanism	13.2	3.5	2.9
Travel final device(each side)	6.5	1.7	1.4
Hydraulic system	260.0	68.7	57.2
Hydraulic tank	140.0	37.0	30.8



# **BACKHOE ATTACHMENTS**

Boom and arms are of welded, box-section design. 6.00 m (19'8") boom, and 2.32 m (7'7"), 2.96 m (9'9") and 3.61 m (11'10") arms

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

### **Buckets**

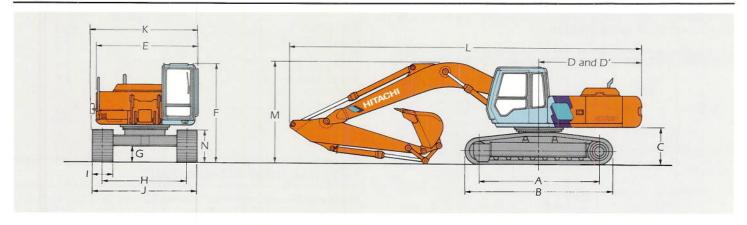
			1.12	Recommendation								
Capacity		Wi	dth	No. of			EX220-3		EX220LC-3			
PCSA heaped	CECE heaped	without side cutters	With side cutters	teeth	With teeth	Weight	2.32 m (7 '7 ") arm	2.96 m (9′9″) arm	3.61 m (11/10") arm	2.32 m (7'7") arm	2.96 m (9'9") arm	3.61 m (11'10") arm
0.80 m <sup>3</sup> (1.05 yd <sup>3</sup> )	0.70 m <sup>3</sup>	940 mm (37")	1 080 mm (43")	4	700 kg (1 550 lb)	0	0	0	0	0	0	
1.05 m <sup>3</sup> (1.37 yd <sup>3</sup> )	0.90 m <sup>3</sup>	1 160 mm (46")	1 300 mm (51")	5	820 kg (1 810 lb)	0	0	0	0	0	0	
1.15 m <sup>3</sup> (1.50 yd <sup>3</sup> )	1.00 m <sup>3</sup>	1 270 mm (50")	1 410 mm (56")	5	870 kg (1 920 lb)	0	0		0	0	0	
1.25 m <sup>3</sup> (1.63 yd <sup>3</sup> )	1.10 m <sup>3</sup>	1 380 mm (54")	1 520 mm (60")	5	920 kg (2 030 lb)	0	0	_	0	0	U	
1.40 m <sup>3</sup> (1.83 yd <sup>3</sup> )	1.20 m <sup>3</sup>	1 490 mm (59")	_	5	890 kg (1 960 lb)		T	-		_		
*0.92 m³ (1.20 yd³)	0.80 m <sup>3</sup>	1 120 mm (44")	_	5	1 000 kg (2 210 lb)	•	•	0	•	•	0	
Ripper bucket: 0.70 m³ (0.92 yd³: CECE heaped) Width 1 000 mm (39")				3	1 210 kg (2 670 lb)	•	•	_	•	•	_	
One-point ripper	-			1	680 kg (1 500 lb)	•	•	-	•	•	_	

<sup>\*</sup> Rock 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

# **DIMENSIONS**



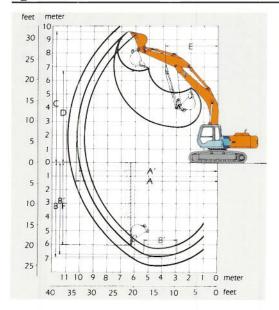
			EX220-3			EX220LC-3		
A	Distance between tumblers		3 460 mm (11'4")		3 840 mm (12′7″)			
В	Undercarriage length		4 260 mm (14'0")			4 640 mm (15'3")		
*C	Counterweight clearance		1 090 mm (3'7")			1 090 mm (3'7")		
D	Rear-end swing radius		2 940 mm (9'8")			2 940 mm (9'8")		
D'	Rear-end length		2 940 mm (9'8")					
E	Overall width of upperstructure		2 870 mm (9'5")			2 870 mm (9'5")		
F	Overall height of cab		2 920 mm (9'7")			2 920 mm (9'7")		
*G	Min. ground clearance		460 mm (1 '6")					
Н	Track gauge		2 390 mm (7'10")					
1	Track shoe width	G600 mm (24")	G800 mm (31 ")	T900 mm (35")	G600 mm (24")	G800 mm (31")	T900 mm (35")	
J	Undercarriage width	2 990 mm (9'10")	3 190 mm (10'6")	3 290 mm (10'10")	3 190 mm (10'6")	3 390 mm (11'1")	3 490 mm (11'5")	
K	Overall width	2 990 mm (9'10")	3 190 mm (10'6")	3 290 mm (10'10")	3 190 mm (10'6")	3 390 mm (11'1")	3 490 mm (11'5")	
L	Overall length With 2.32 m (7'7") arm With 2.96 m (9'9") arm With 3.61 m (11'10") mm arm		10 260 mm (33'8") 10 120 mm (33'2") 10 180 mm (33'5")			10 260 mm (33'8") 10 120 mm (33'2") 10 180 mm (33'5")		
М	Overall height of boom With 2.32 m (7'7") arm With 2.96 m (9'9") arm With 3.61 m (11'10") arm		3 250 mm (10'8") 3 040 mm (10'0") 3 270 mm (10'9")			3 250 mm (10'8") 3 040 mm (10'0") 3 270 mm (10'9")		
Ν	Track height With triple grouser shoes		945 mm (3′1″)			945 mm (3′1″)		

<sup>\*</sup> Excluding track shoe lug.

T: Triangular shoe



# **WORKING RANGES**



		EX220-3/EX220LC-3											
Arn	n length	2.32 m (7'7")	2.96 m (9'9")	3.61 m (11'10")									
Α	Max. digging reach	9 710 mm (31'10")	10 270 mm (33'8")	10 900 mm (35'9")									
A'	Max. digging reach (on ground)	9 530 mm (31 ′3 ″)	10 100 mm (33'2")	10 730 mm (35′2″)									
В	Max. digging depth	6 310 mm (20'8")	6 950 mm (22'10")	7 600 mm (24'11")									
B'	Max. digging depth (8' level)	6 070 mm (19'11")	6 740 mm (22'1")	7 430 mm (24′5″)									
C	Max. cutting height	9 410 mm (30′10″)	9 630 mm (31'7")	9 980 mm (32'9")									
D	Max. dumping height	6 530 mm (21 '5")	6 760 mm (22'2")	7 100 mm (23'4")									
E	Min. swing radius	3 920 mm (12′10″)	3 850 mm (12'8")	3 880 mm (12'9")									
F	Max. vertical wall	5 400 mm (17'9")	6 030 mm (19'9")	6 740 mm (22'1")									
Bucket digging force		136.3 kN (13 900 kgf, 30 600 lbf)	136.3 kN (13 900 kgf, 30 600 lbf)	136.3 kN (13 900 kgf, 30 600 lbs									
Arm crowd force		132.4 kN (13 500 kgf, 29 800 lbf)	105.9 kN (10 800 kgf, 23 800 lbf)	92.2 kN (9 400 kgf, 20 700 lbf)									

Excluding track shoe lug.

G: Triple grouser shoe

# STANDARD EQUIPMENT

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

#### **ENGINE**

- 35 A alternator
- Dry-type air filter with evacuator valve (with safety element)
- · Cartridge-type engine oil fiter
- Cartridge-type engine oil bypass filter
- · Cartridge type fuel filter
- · Radiator and oil cooler with dust protective net
- Radiator reserve tank
- Fan quard
- 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
- Shockless valve in pilot circuit
- Swing cushion valve in swing circuit

- Accumulator in pilot circuit
- Boom-arm holding valve
- Control valve with main relief
- 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, adjustable suspension seat with adjustable armrests, footrest, electric double horn, auto-tuning radio with digital clock, auto-idle switch, seat belt, 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 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
- 5 050 kg (11 100 lb) counterweight
- 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
- 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:

EX220-3 and EX220LC-3

# FRONT ATTACHMENTS

- Bucket clearance adjust mechanism
- Monolithically cast bucket link A
- Centralized lubrication system
- Dirt seals on all bucket pins
- 2.96 m (9'9") arm
- 1.05 m<sup>3</sup> (1.37 yd<sup>3</sup>: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.

- 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

- Rock bucket for hard, rocky ground
- One-point ripper for ripping hardpan

Ripper bucket for ripping and loading hardpan

# Type of Bucket



Rock backet



Ripper bucket



One-point ripper

# Type of Shoe



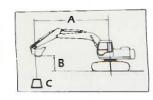
Triple grouser shoe 800 mm (31")



Flat shoe 600 mm (24")



Triangular shoe 900 mm (35")



A: Load radius

B: Load point height

C: Lifting capacity

# METRIC MEASURE

EX220-3
---------

Bucket

Arm 3.61 m (11'10"

PCSA: 1.05 m<sup>3</sup> (1.37 yd<sup>3</sup>) CECE: 0.90 m<sup>3</sup>

Shoes 600 mm (24")

2 (6'7")

0

(Ground)

(-6'7")

(-13'1"

-6 -19'8" \*6.39

[14.1]

13.0

(28.7)

\*11.4

(25.1)

\*6.39

(14.1)

\*13.1

(28.9)

\*11.4

(25.1)

8.72

(19.2)

\*7.54

(16.6)

7.54

(16.6)

7.65

(16.9)

8.02

\*9.30

(20.5)

\*7.54

(16.6)

\*11.3

[24.9]

\*11.8

[26.0]

\*9.13

(20.1)

(13.6)

5.47

(12.1)

5.23

(11.5)

5.25

(11.6)

5.52

EX220-3					Rating over-side or 360 degrees Rating over-front										Unit: 1 000 kg (1 000 lb)				
	Load	- 1000	Load radius													At max, reach			
220000000000000000000000000000000000000	point	3 (9	10")	4 (13'1")		5 (16'5")		6 (19'8")		7 (23'0")		8 (26'3")		9 (29'6")		, tt max. reach			
Conditions	height m (ft in)		Ü	(C)>-	ů	(C)	ů	0	ů	<b>P</b>	Ů	(C)	ď	(C)>-	ů	(C))n	ď	@m (ft in)	
	6 (19'8")							*4.50 (9.92)	*4.50 (9.92)	3.86 (8.51)	*4.28 (9.44)					2.73 (6.02)	*3.75 (8.27)	8.45 (27′9″)	
Boom 6.00 m (19'8") Arm 2.32 m (7'7")	(13'1")					*6.18 (13.6)	*6.18 (13.6)	4.85 (10.7)	*5.40 (11.9)	3.71 (8.18)	*4.96	2.88 (6.35)	4.35 (9.59)			2.23 (4.92)	3.43 (7.56)	9.14 (30'0")	
Bucket PCSA: 1.05 m <sup>3</sup>	2 (6'7")					5.76 (12.7)	*8.74 (19.3)	4.39 (9.68)	6.71 (14.8)	3.43 (7.56)	5.23 (11.5)	2.73 (6.02)	4.19 (9.24)			2.06 (4.54)	3.23 (7.12)	9.29 (30′6″)	
(1.37 yd³) CECE: 0.90 m³	(Ground)					5.38	8.55 (18.9)	4.08	6.37	3.22 (7.10)	4.99	2.59 (5.71)	4.04 (8.91)			2.16 (4.76)	3.40 (7.50)	8.92 (29'3")	
Shoes 600 mm (24")	-2 (-6'7")			7.82	*11.0	5.36 (11.8)	8.52 (18.8)	4.01 (8.84)	6.28	3.15 (6.95)	4.92 (10.8)	2.56 (5.64)	4.01 (8.84)						
	-4 (-13'1")	*11.9 (26.2)	*11.9 (26.2)	8.03 (17.7)	*10.1 (22.3)	5.53 (12.2)	*8.50 (18.7)	4.14 (9.13)	6.43 (14.2)			8							
	6 (19'8")									*3.92 (8.64)	*3.92 (8.64)					2.39 (5.27)	*2.41 (5.31)	9.07	
Boom 6.00 m (19'8") Arm 2.96 m (9'9")	4 (13'1")							*4.77	*4.77	3.79 (8.36)	*4.46	2.94 (6.48)	*4.28			1.98 (4.37)	*2.48 (5.47)	9.71	
Bucket PCSA: 1.05 m <sup>3</sup>	2 (6'7")					5.98 (13.2)	*7.90 (17.4)	4.50 (9.92)	*6.35 (14.0)	3.49 (7.70)	5.29 (11.7)	2.75 (6.06)	4.22 (9.31)	2.19 (4.83)	3.42 (7.54)	1.83 (4.04)	*2.72 (6.00)	9.85 (32'4")	
(1.37 yd³) CECE: 0.90 m³	(Ground)			*5.47 (12.1)	*5.47 (12.1)	5.45 (12.0)	8.62 (19.0)	4.12 (9.08)	6.42 (14.2)	3.23 (7.12)	5.01	2.58 (5.69)	4.03 (8.89)	2.09 (4.61)	3.31 (7.30)	1.90 (4.19)	3.03	9.51	
Shoes 600 mm (24")	-2 (-6'7")	*7.02 (15.5)	*7.02 (15.5)	7.69 (17.0)	*12.4 (27.3)	5.32 (11.7)	8.48 (18.7)	3.98 (8.78)	6.26 (13.8)	3.11 (6.86)	4.88	2.50 (5.51)	3.95 (8.71)	teti .		2.26 (4.98)	3.56 (7.85)	8.62 (28'3")	
	-4 (-13'1")	13.3 (29.3)	*13.8 (30.4)	7.88 (17.4)	*11.2 (24.7)	5.42 (12.0)	8.59 (18.9)	4.04 (8.91)	6.32 (13.9)	3.17 (6.99)	4.94 (10.9)		300 = =000						
	(19'8")									AND I		*3.04 (6.70)	*3.04 (6.70)	I		*1.83 (4.04)	*1.83 (4.04)	9.76 (32'0")	
	4 (13'1")									3.84 (8.47)	*3.88	2.97	*3.77	2.30	*3.10	1.69	*1.87	10.3	
Boom 6.00 m (19'8")	1.5	1	-	1	1	00/05/20	100000000000000000000000000000000000000		100000000000000000000000000000000000000	1/	1	1	10.0.7	10000	1	1	1	1	

Ratings are based on SAE J1097.

\*6.92

(15.3)

8.67

(19.1)

8.39

(18.5)

8.42

(18.6)

(16.3)

4.57

(10.1)

(9.08)

3.90

(8.60)

3.90

(8.60)

4.13

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.

The load point is a hook (not standard equipment) loaded on the back of the bucket.

4. \*Indicates load limited by hydraulic capcity.

3.52 (7.76)

3.21

(7.08)

3.04

[6.70]

3.03

(6.68)

\*4.95

(10.9)

5.00

(11.0)

4.81

(10.6)

(10.6)

2.75

[6.06]

(5.62)

2.42 (5.34)

(5.38)

4.22 (9.31)

4.00

(8.82)

3.87

(8.53)

3.89

(8.58)

2.18 (4.81)

2.04

(4.50)

1.97

[4.34]

3.41 (7.52)

3.26

(7.19)

3.19

(7.03)

1.57

(3.46)

(3.55)

1.88

(4.15)

\*2.04

(4.50)

\*2.37

(5.23)

\*3.00

[6.62]

10.5

(34'5")

10.2 (33'6")

9.35

(30'8")

\*5.69

(12.5)

6.43

(14.2)

6.18

(13.6)

6.18

(13.6)

\*5.91

(13.0)

# METRIC MEASURE

EX220LC-3							(	Rating	j over-sid	e or 360	degrees	Ü	Rating o	ver-front		Unit:	000 kg	(1 000 lb	
	Load point		Load radius											m	(ft in)	At max. reach			
		3 (9	10")	4 (13	4 (13'1")		5 (16'5")		6 (19'8")		7 (23'0")		8 (26'3")		6"1	At max. re		I	
Conditions	height m (ft in)	(C)	ů	0	Ů		ů	(C)	ů	<b>P</b>	ů	0	ů	<b>P</b>	ů	(C)>	ů	@ft in)	
	6 (19'8")							*4.50 (9.92)	*4.50 (9.92)	*4.28 (9.44)	*4.28 (9.44)					3.18 (7.01)	*3.75 (8.27)	8.45 (27'9")	
Boom 6.00 m (19'8") Arm 2.32 m (7'7")	4 (13'1")					*6.18 (13.6)	*6.18 (13.6)	*5.40 (11.9)	*5.40 (11.9)	4.30 (9.48)	*4.96 (10.9)	3.37 (7.43)	*4.76 (10.5)			2.63 (5.80)	*3.84 (8.47)	9.14	
Bucket PCSA: 1.05 m <sup>3</sup>	2 (6'7")					6.73 (14.8)	*8.74 (19.3)	5.12 (11.3)	*6.89 (15.2)	4.01 (8.84)	*5.87 (12.9)	3.21 (7.08)	5.15 (11.4)			2.46 (5.42)	4.01 (8.84)	9.29	
(1.37 yd³) CECE: 0.90 m³	0 (Ground)					6.34 (14.0)	*10.0	4.08	7.92 (17.5)	3.79 (8.36)	6.18 (13.6)	3.07 (6.77)	5.00			2.58 (5.69)	4.22 (9.31)	8.92 (29'3")	
Shoes 800 mm (31")	-2 (-6'7")			9.23 (20.4)	*11.0 (24.3)	6.31 (13.9)	*9.85 (21.7)	4.73 (10.4)	7.83 (17.3)	3.72 (8.20)	6.11 (13.5)	3.04 (6.70)	4.97 (11.0)						
	-4 (-13'1")	*11.9 (26.2)	*11.9 (26.2)	9.45 (20.8)	*10.1 (22.3)	6.48 (14.3)	*8.50 (18.7)	4.86 (10.7)	7.03 (15.5)										
	6 (19'8")									*3.92 (8.64)	*3.92 (8.64)					*2.41 (5.31)	*2.41 (5.31)	9.07	
Boom 6.00 m (19'8")	4 (13'1")							5.72 (12.6)	*4.77 (10.5)	4.38 (9.66)	*4.46 (9.83)	3.43 (7.56)	*4.28 (9.44)			2.35 (5.18)	*2.48 (5.47)	9.71 (31′10″	
Arm 2.96 m (9'9") Bucket PCSA: 1.05 m <sup>3</sup>	2 (6'7")					6.95 (15.3)	*7.90 (17.4)	5.23 (11.5)	*6.35 (14.0)	4.07 (8.97)	*5.46 (12.0)	3.24 (7.14)	*4.90 (10.8)	2.60 (5.73)	*4.04 (8.91)	2.20 (4.85)	*2.72 (6.00)	9.85 (32'4")	
[1.37 yd³] CECE: 0.90 m³	0 (Ground)			*5.47 (12.1)	*5.47 (12.1)	6.40 (14.1)	*9.71 (21.4)	4.85	*7.67 (16.9)	3.81 (8.40)	6.21 (13.7)	3.06 (6.75)	5.00	2.50 (5.51)	4.12 (9.08)	(5.03)	*3.17 (6.99)	9.51	
Shoes 800 mm (31")	-2 (-6'7")	*7.02 (15.5)	*7.02 (15.5)	9.10 (20.1)	*12.4 (27.3)	6.27 (13.8)	*10.0 (22.1)	4.70 (10.4)	7.80 (17.2)	3.69 (8.14)	6.07 (13.4)	2.98 (6.57)	4.91 (10.8)			(5.95)	*4.05 (8.93)	8.62 (28'3")	
	-4 (-13'1")	*13.8 (30.4)	*13.8 (30.4)	9.29 (20.5)	*11.2 (24.7)	6.37 (14.0)	*9.12 (20.1)	4.76 (10.5)	*7.52 (16.6)	3.74 (8.25)	6.13 (13.5)								
	6 (19'8")											*3.04 (6.70)	*3.04 (6.70)			*1.83 (4.04)	*1.83	9.76 (32'0")	
	4 (13'1")									*3.88 (8.56)	*3.88 (8.56)	3.45 (7.61)	*3.77 (8.31)	2.72 (6.00)	*3.10 (6.84)	*1.87 (4.12)	*1.87 (4.12)	10.3 (33′10″	
Boom 6.00 m (19'8") Arm 3.61 m (11'10") Bucket	2 (6'7")			*9.30 (20.5)	*9.30 (20.5)	*6.92 (15.3)	*6.92 (15.3)	5.31 (11.7)	*5.69 (12.5)	4.10 (9.04)	*4.95 (10.9)	3.24 (7.14)	*4.47 (9.86)	2.59 (5.71)	*4.08 (9.00)	1.91 (4.21)	*2.04 (4.50)	10.5 (34′5″)	
PCSA: 1.05 m <sup>3</sup> (1.37 yd <sup>3</sup> )	0 (Ground)			9.13 (20.1)	*7.54 (16.6)	6.43 (14.2)	*9.13 (20.1)	4.85 (10.7)	*7.21 (15.9)	3.79 (8.36)	*6.00	3.03 (6.68)	4.97 (11.0)	2.45 (5.40)	4.08 (9.00)	1.96 (4.32)	*2.37 (5.23)	-	
CECE: 0.90 m <sup>3</sup> Shoes 800 mm (31 ")	-2 (-6'7")	*6.39 (14.1)	*6.39 (14.1)	8.94 (19.7)	*11.3 (24.9)	6.18 (13.6)	*9.92 (21.9)	4.62 (10.2)	7.73 (17.0)	3.61 (7.96)	6.00 (13.2)	2.90 (6.39)	4.83 (10.7)	2.38 (5.25)	4.00 (8.82)	(5.01)	*3.00 (6.62)	9.35	
	-4 (-13'1")	*13.1 (28.9)	*13.1 (28.9)	9.06 (20.0)	*11.8 (26.0)	6.21 (13.7)	*9.47 (20.9)	4.62 (10.2)	7.75 (17.1)	3.61 (7.96)	5.99	2.92 (6.44)	4.85 (10.7)						
	-6 (-19'8")	*11.4 (25.1)	*11.4 (25.1)	*9.13 (20.1)	*9.13 (20.1)	6.48 (14.3)	*7.41 (16.3)	4.85 (10.7)	*5.91 (13.0)										

Ratings are based on SAE J1097.
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 The load point is a hook (not standard equipment) loaded on the back of the bucket.
 \*Indicates load limited by hydraulic capcity.

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