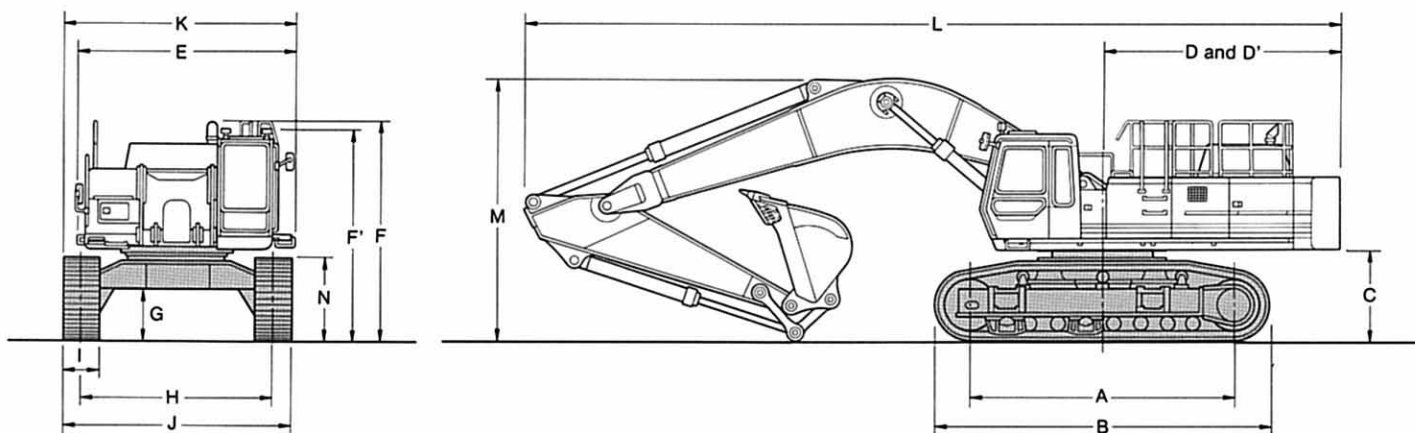


# HITACHI

# SuperEX EX700

- Rated engine HP (gross) ..... 324 kW (435 PS)
- Operating weight ..... Backhoe: EX700 67 600 kg (149 100 lb)  
EX700H 69 400 kg (153 000 lb)  
Loading shovel: EX700 72 000 kg (158 800 lb)  
EX700H 73 000 kg (161 000 lb)
- Backhoe bucket ..... PCSA heaped: 1.80 — 4.10 m<sup>3</sup>  
(2.35 — 5.36 yd<sup>3</sup>)  
CECE heaped: 1.60 — 3.60 m<sup>3</sup>
- Loading shovel bucket ..... PCSA heaped: 3.60 — 4.40 m<sup>3</sup>  
(4.71 — 5.75 yd<sup>3</sup>)

## Specifications



	EX700			EX700 with BE-front		
A Distance between tumblers	4 590 mm (15'1")			4 590 mm (15'1")		
B Undercarriage length	5 820 mm (19'1")			5 820 mm (19'1")		
*C Counterweight clearance	1 590 mm (5'3")			1 590 mm (5'3")		
D Rear-end swing radius	4 100 mm (13'5")			4 100 mm (13'5")		
D' Rear-end length	4 080 mm (13'5")			4 080 mm (13'5")		
E Overall width of upperstructure	3 790 mm (12'5")			3 790 mm (12'5")		
F Overall height	3 790 mm (12'5")			3 790 mm (12'5")		
F' Overall height of cab	3 520 mm (11'7")			3 520 mm (11'7")		
*G Min. ground clearance	890 mm (2'11")			890 mm (2'11")		
H Track gauge Extended/Retracted	3 300 mm (10'10")/2 830 mm (9'3")			3 300 mm (10'10")/2 830 mm (9'3")		
I Track shoe width	G650 mm (26")	G750 mm (30")	G900 mm (35")	G650 mm (26")	G750 mm (30")	G900 mm (35")
J Undercarriage width Extended/Retracted	3 950 mm/3 480 mm (13'0")/(11'5")	4 050 mm/3 580 mm (13'3")/(11'9")	4 200 mm/3 730 mm (13'9")/(12'3")	3 950 mm/3 480 mm (13'0")/(11'5")	4 050 mm/3 580 mm (13'3")/(11'9")	4 200 mm/3 730 mm (13'9")/(12'3")
K Overall width	4 050 mm (13'3")	4 100 mm (13'5")	4 200 mm (13'9")	4 050 mm (13'3")	4 100 mm (13'5")	4 200 mm (13'9")
L Overall length	14 070 mm (46'2")			13 020 mm (42'9")		
**M Overall height of boom	4 520 mm (14'10")			5 020 mm (16'6")		
N Track height	1 470 mm (4'10")	1 470 mm (4'10")	1 470 mm (4'10")	1 470 mm (4'10")	1 470 mm (4'10")	1 470 mm (4'10")

\* Excluding track shoe lug    \*\* Including pipe

# TECHNICAL DATA



## ENGINE

Model ..... Cummins NTA855-C450  
 Type ..... 4-cycle water-cooled, direct injection  
 Aspiration ..... Turbocharged  
 No. of cylinders ..... 6  
 Rated flywheel horsepower  
 DIN 6271, net ..... 309 kW (420 PS) at 1 800 min<sup>-1</sup> (rpm)  
 SAE J1349, net ..... 309 kW (414 HP) at 1 800 min<sup>-1</sup> (rpm)  
 Maximum flywheel horsepower  
 SAE J1349, gross .. 324 kW (435 HP) at 1 800 min<sup>-1</sup> (rpm)  
 Maximum torque ..... 1 814 N·m (185 kgf·m, 1 338 lbf·ft)  
 at 1 400 min<sup>-1</sup> (rpm)  
 Piston displacement ..... 14.00 L (854 in<sup>3</sup>)  
 Bore and stroke ..... 140 mm × 152 mm (5.5" × 6.0")  
 Batteries ..... 2 × 12 V, 170 AH  
 Governor ..... Mechanical, speed control by stepping motor



## HYDRAULIC SYSTEM

Hitachi's ETS (Electronic Total control System) designed for higher job efficiency with less fuel consumption/noise.  
 Main pumps ..... 2 variable displacement axial piston pumps  
 Maximum oil flow .... 2 × 490 L/min  
 (129.5 US gpm, 107.8 Imp gpm)  
 Pilot pump ..... 1 gear pump  
 Maximum oil flow .... 1 × 30.2 L/min  
 (8.0 US gpm, 6.6 Imp gpm)

### Hydraulic Motors

Travel ..... 2 axial piston motors with parking brake  
 Swing ..... 2 axial piston motors

### Relief Valve Settings

Implement circuit ..... 29.4 MPa (300 kgf/cm<sup>2</sup>, 4 270 psi)  
 Swing circuit ..... 29.4 MPa (300 kgf/cm<sup>2</sup>, 4 270 psi)  
 Travel circuit ..... 31.4 MPa (320 kgf/cm<sup>2</sup>, 4 550 psi)  
 Pilot circuit ..... 3.9 MPa ( 40 kgf/cm<sup>2</sup>, 570 psi)

### Hydraulic Cylinders

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

### Dimensions

Backhoe: Equipped with 8.25 m (27'1") boom, 3.60 m (11'10") arm, and 2.90 m<sup>3</sup> (3.79 yd<sup>3</sup>): PCSA heaped

	Qty	Bore	Rode diameter
Boom	2	200 mm (7.87")	140 mm (5.51")
Arm	1	215 mm (7.87")	150 mm (5.91")
Bucket	1	190 mm (7.48")	130 mm (5.12")

### Loading Shovel

	Qty	Bore	Rode diameter
Boom	2	200 mm (7.87")	140 mm (5.51")
Arm	1	200 mm (7.87")	140 mm (5.51")
Bucket	2	180 mm (7.09")	130 mm (5.12")
Dump	2	130 mm (5.12")	80 mm (3.15")
Level	1	200 mm (7.87")	140 mm (5.51")

### 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  
 Bucket open/close pedals (Loading shovel) ..... 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 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 cushion valve built in swing motor absorbs shocks when stopping swing.  
 Swing speed ..... 9.3 min<sup>-1</sup> (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 4 sides for excellent visibility. Front windows (upper and lower) are openable and storable in the cab. Adjustable, reclining seat with armrests and seat belt. Right and left control levers can be tilted fore and aft.

\* International Standardization Organization



## UNDERCARRIAGE

### Tracks

Tractor-type undercarriage. Welded track frame, using carefully selected materials for tough jobs. Side frame bolted to track frame. Lubricated track rollers, idlers, and sprockets with floating seals. Track shoes with double grouser made of induction-hardened rolled alloy. 750 mm (30") and 900 mm (35") wide double grouser shoes also available for backhoe. 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 ..... 3  
 Lower rollers ..... 8  
 Track shoes ..... 47  
 Track guard ..... 2  
 3 EX700H

### 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 speeds ..... High: 0 to 4.6 km/h (2.9 mph)  
 Low: 0 to 3.3 km/h (2.1 mph)

Maximum traction force ... 471 kN (48 000 kgf, 105 800 lbf)  
 Gradeability ..... 35° (70%) continuous

## WEIGHTS AND GROUND PRESSURE

### Backhoe

**EX700:** Equipped with 8.25 m (27'1") boom, 3.60 m (11'10") arm, and 2.90 m<sup>3</sup> (3.79 yd<sup>3</sup>): PCSA heaped bucket.

Shoe type	Shoe width	Operating weight	Ground pressure
Double grouser	650 mm (26")	67 600 kg (149 100 lb)	101.0 kPa (1.03 kgf/cm <sup>2</sup> , 14.6 psi)
	750 mm (30")	68 300 kg (151 000 lb)	88.3 kPa (0.90 kgf/cm <sup>2</sup> , 12.8 psi)
	900 mm (35")	69 400 kg (153 000 lb)	74.5 kPa (0.76 kgf/cm <sup>2</sup> , 10.8 psi)

**EX700H:** Equipped with 8.25 m (27'1") H-boom, 3.60 m (11'10") H-arm, and 2.90 m<sup>3</sup> (3.79 yd<sup>3</sup>): PCSA heaped rock bucket.

Shoe type	Shoe width	Operating weight	Ground pressure
Double grouser	650 mm (26")	69 400 kg (153 000 lb)	103.0 kPa (1.05 kgf/cm <sup>2</sup> , 14.9 psi)

**EX700H:** Equipped with 7.10 m (23'4") BE-boom, 3.60 m (11'10") H-arm, 2.90 m<sup>3</sup> (3.79 yd<sup>3</sup>): PCSA heaped rock bucket.

Shoe type	Shoe width	Operating weight	Ground pressure
Double grouser	650 mm (26")	69 400 kg (153 000 lb)	103.0 kPa (1.05 kgf/cm <sup>2</sup> , 14.9 psi)

**EX700:** Equipped with 7.10 m (23'4") BE-boom, 2.95 m (9'8") BE-arm, and 4.10 m<sup>3</sup> (5.36 yd<sup>3</sup>): PCSA heaped bucket.

Shoe type	Shoe width	Operating weight	Ground pressure
Double grouser	650 mm (26")	69 400 kg (153 000 lb)	103.0 kPa (1.05 kgf/cm <sup>2</sup> , 14.9 psi)
	750 mm (30")	70 100 kg (154 600 lb)	90.2 kPa (0.92 kgf/cm <sup>2</sup> , 13.1 psi)
	900 mm (35")	71 200 kg (157 000 lb)	76.5 kPa (0.78 kgf/cm <sup>2</sup> , 11.1 psi)

Note: Depending on the jobsite conditions, 750 mm (30") and 900 mm (35") double grouser shoe may not be recommended for rock, hard surface or forestry application.

### Loading Shovel

**EX700:** Equipped with 4.00 m<sup>3</sup> (5.23 yd<sup>3</sup>) bottom dump bucket

Shoe type	Shoe width	Operating weight	Ground pressure
Double grouser	650 mm (26")	72 000 kg (158 800 lb)	106.9 kPa (1.09 kgf/cm <sup>2</sup> , 15.5 psi)

**EX700H:** Equipped with 3.60 m<sup>3</sup> (4.71 yd<sup>3</sup>) bottom dump rock bucket

Shoe type	Shoe width	Operating weight	Ground pressure
Double grouser	650 mm (26")	73 000 kg (161 000 lb)	108.9 kPa (1.11 kgf/cm <sup>2</sup> , 15.8 psi)

## SERVICE REFILL CAPACITIES

	liters	US gal	Imp gal
Fuel tank .....	800.0	211.4	176.0
Engine coolant .....	72.0	19.0	15.8
Engine oil .....	44.0	11.6	9.7
Pump drive .....	13.0	3.4	2.9
Swing mechanism .....	12.0	3.2	2.6
(each side)			
Travel final device .....	23.0	6.1	5.1
(each side)			
Hydraulic system			
Backhoe .....	660.0	174.4	145.2
Loading shovel .....	750.0	198.2	165.0
Hydraulic tank .....	340.0	89.8	74.8

## BACKHOE ATTACHMENTS

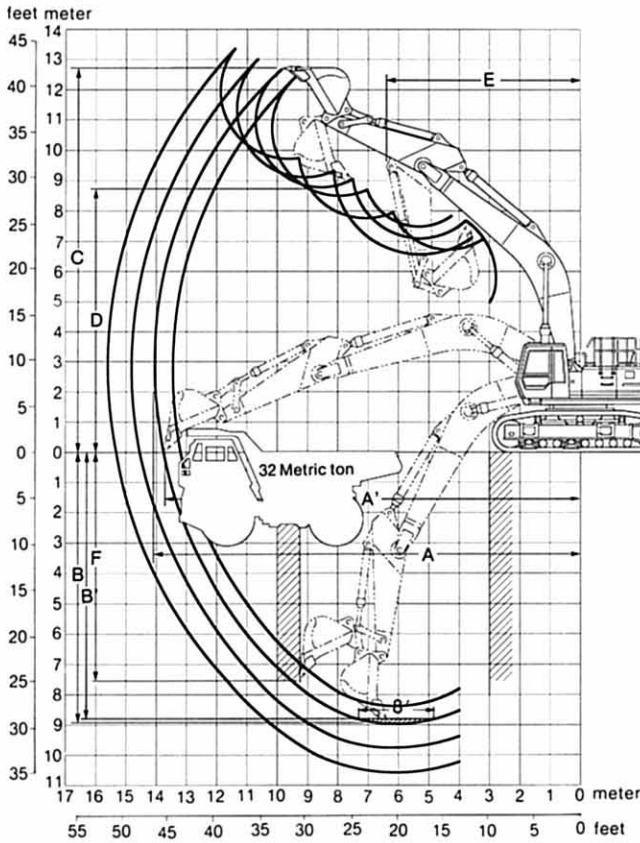
Booms and arms of all-welded, box-section design. 7.10 m (23'4") BE-boom, 8.25 m (27'1") boom, 8.25 m (27'1") H-boom, 10.0 m (32'10") long boom, 2.95 m (9'8") arm, 2.95 m (9'8") BE-arm, 3.60 m (11'10"), 3.60 m (11'10") H-arm, 4.40 m (14'5") arm, and 5.40 m (17'9") arms are available. Bucket is of all-welded, high-strength steel structure. Side clearance adjust mechanism provided on the bucket joint bracket.

Booms and Arms are available as follows:

	Boom	Arm
EX700	7.10 m (23'4") BE-boom	2.95 m (9'8") BE-arm
	8.25 m (27'1")	2.95 m (9'8"), 3.60 m (11'10"), 4.40 m (14'5"), 5.40 m (17'9")
	10.0 m (32'10")	5.40 m (17'9")
	8.25 m (27'1") H-boom	3.60 m (11'10") arm
EX700H	8.25 m (27'1") H-boom	3.60 m (11'10") H-arm
	7.10 m (23'4") BE-boom	3.60 m (11'10") H-arm
	7.10 m (23'4") BE-boom	2.95 m (9'8") BE-arm

# TECHNICAL DATA

## WORKING RANGES



	EX700					
	7.10 m (23'4") BE-boom	8.25 m (27'1")				10.0 m (32'10")
Arm length	2.95 m (9'8") BE-arm	2.95 m (9'8")	3.60 m (11'0")	4.40 m (14'5")	5.40 m (17'9")	5.40 m (17'9")
A Max. digging reach	12 360 mm (40'7")	13 520 mm (44'4")	14 090 mm (46'3")	14 860 mm (48'9")	15 690 mm (51'6")	17 440 mm (57'3")
A' Max. digging reach (on ground)	12 040 mm (39'6")	13 230 mm (43'5")	13 810 mm (45'4")	14 590 mm (47'10")	15 430 mm (50'7")	17 220 mm (56'6")
B Max. digging depth	7 240 mm (23'9")	8 280 mm (27'2")	8 920 mm (29'3")	9 720 mm (31'11")	10 600 mm (34'9")	12 060 mm (39'7")
B' Max. digging depth (8' level)	7 100 mm (23'4")	8 130 mm (26'8")	8 790 mm (28'10")	9 610 mm (31'6")	10 500 mm (34'5")	11 960 mm (39'3")
C Max. cutting height	11 490 mm (37'8")	12 310 mm (40'5")	12 710 mm (41'8")	13 080 mm (42'11")	13 390 mm (43'11")	14 490 mm (47'6")
D Max. dumping height	7 700 mm (25'3")	8 520 mm (27'11")	8 730 mm (28'8")	9 090 mm (29'10")	9 640 mm (31'8")	10 790 mm (35'5")
E Min. swing radius	5 480 mm (18'0")	6 510 mm (21'4")	6 400 mm (21'0")	6 300 mm (20'8")	6 290 mm (20'8")	7 640 mm (25'1")
F Max. vertical wall depth	4 570 mm (15'0")	5 810 mm (19'1")	7 250 mm (23'9")	8 340 mm (27'4")	9 090 mm (29'10")	10 500 mm (34'5")
Bucket digging force	353.1 kN (36 000 kgf 79 400 lbf)	294.2 kN (30 000 kgf 66 200 lbf)	275.6 kN (28 100 kgf 32 000 lbf)	275.6 kN (28 100 kgf 32 000 lbf)	225.6 kN (23 000 kgf 50 700 lbf)	225.6 kN (23 000 kgf 50 700 lbf)
	288.1 kN (29 400 kgf 64 800 lbf)	290.3 kN (29 600 kgf 65 300 lbf)	238.3 kN (24 300 kgf 53 600 lbf)	207.9 kN (21 200 kgf 46 700 lbf)	184.4 kN (18 800 kgf 41 500 lbf)	184.4 kN (18 800 kgf 41 500 lbf)
Arm digging force						

## Backhoe Buckets

Capacity		Width		No. of teeth	Weight	Recommendation						
PCSA heaped	CECE heaped	Without side cutters	With side cutters			EX700			EX700H			
						7.10 m (23'4") BE-boom	8.25 m (27'1") boom		10.0 m (32'10") boom	8.25 m (27'1") H-boom	7.10 m (23'4") BE-boom	7.10 m (23'4") BE-boom
				2.95 m (9'8") BE-arm	2.95 m (9'8") arm	3.60 m (11'10") arm	4.40 m (14'5") arm	5.40 m (17'9") arm	5.40 m (17'9") arm	3.60 m (11'10") H-arm	3.60 m (11'10") H-arm	2.95 m (9'8") BE-arm
1.80 m <sup>3</sup> (2.35 yd <sup>3</sup> )	1.60 m <sup>3</sup>	1 220 mm (4'0")	1 360 mm (4'6")	5	1 870 kg (4 120 lb)					○		
2.00 m <sup>3</sup> (2.62 yd <sup>3</sup> )	1.80 m <sup>3</sup>	1 350 mm (4'5")	1 490 mm (4'11")	5	2 060 kg (4 540 lb)				○			
2.40 m <sup>3</sup> (3.14 yd <sup>3</sup> )	2.20 m <sup>3</sup>	1 420 mm (4'8")	1 560 mm (5'1")	5	2 350 kg (5 180 lb)		○	○		○	○	
2.90 m <sup>3</sup> (3.79 yd <sup>3</sup> )	2.60 m <sup>3</sup>	1 620 mm (5'4")	1 760 mm (5'9")	5	2 500 kg (5 510 lb)		○	○	○	○	○	
3.10 m <sup>3</sup> (4.05 yd <sup>3</sup> )	2.80 m <sup>3</sup>	1 730 mm (5'8")	1 870 mm (6'2")	5	2 630 kg (5 800 lb)		○	○		○	○	
4.10 m <sup>3</sup> (5.36 yd <sup>3</sup> )	3.60 m <sup>3</sup>	—	2 050 mm (6'9")	5	3 500 kg (7 720 lb)	○						○
*2.90 m <sup>3</sup> (3.79 yd <sup>3</sup> )	2.60 m <sup>3</sup>	—	1 610 mm (5'3")	5	3 100 kg (6 840 lb)					●	●	
**2.90 m <sup>3</sup> (3.79 yd <sup>3</sup> )	2.60 m <sup>3</sup>	—	1 610 mm (5'3")	4	3 700 kg (8 160 lb)							●
**3.20 m <sup>3</sup> (4.19 yd <sup>3</sup> )	2.90 m <sup>3</sup>	—	1 640 mm (5'5")	5	3 300 kg (7 280 lb)							●
**3.60 m <sup>3</sup> (4.71 yd <sup>3</sup> )	3.20 m <sup>3</sup>	—	1 840 mm (6'0")	5	3 780 kg (8 330 lb)							●
**1.90 m <sup>3</sup> (2.49 yd <sup>3</sup> )	1.70 m <sup>3</sup>	1 400 mm (4'7")	—	3	4 100 kg (9 040 lb)					●	●	
**2.20 m <sup>3</sup> (2.88 yd <sup>3</sup> )	2.00 m <sup>3</sup>	1 580 mm (5'2")	—	3	4 300 kg (9 480 lb)							●
One-point ripper	—	800 mm (2'7")	—	1	2 600 kg (5 730 lb)					●	●	●

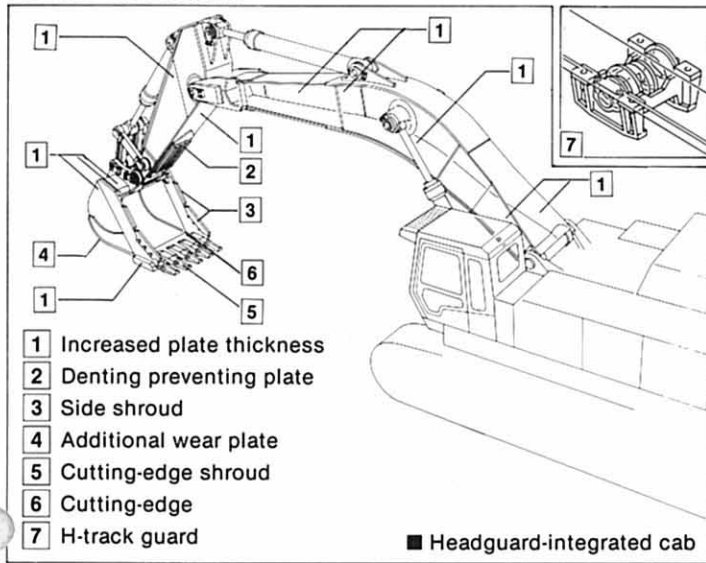
- \*1: Rock bucket for H-front
- \*2: Rock bucket for BE-front
- \*3: Rock bucket for BE-H-front
- \*4: Ripper bucket

※4.10 m<sup>3</sup> (5.36 yd<sup>3</sup>), Rock and Ripper bucket equipped with side shroud.

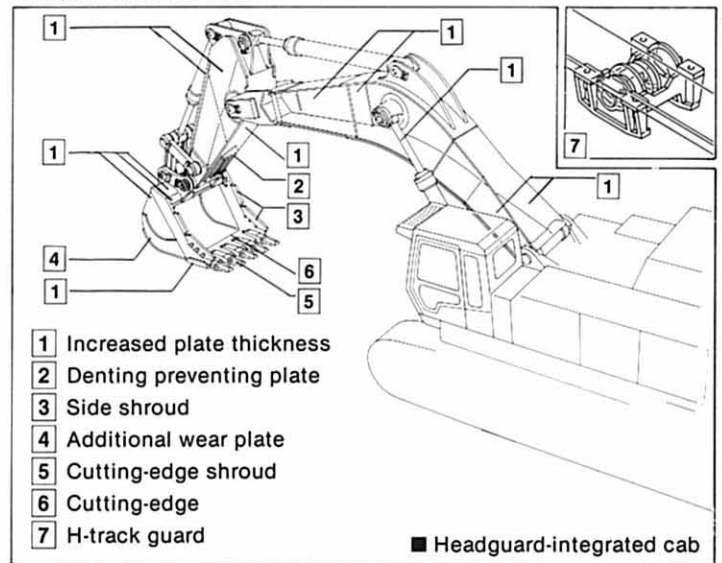
- Suitable for materials with density of 2 000 kg/m<sup>3</sup> (3.370 lb/yd<sup>3</sup>) or less
- Suitable for materials with density of 1 600 kg/m<sup>3</sup> (2 700 lb/yd<sup>3</sup>) or less
- Heavy-duty service

## BACKHOE

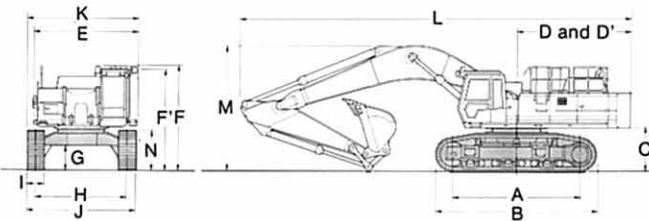
### EX700H with H-front



### EX700H with BE-front



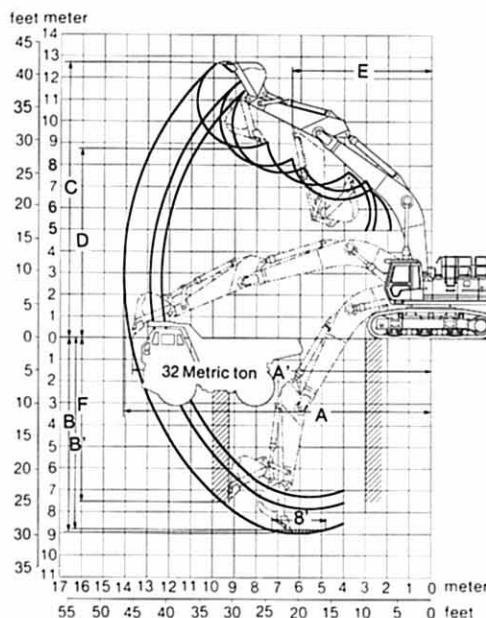
## DIMENSIONS



	EX700H (With Headguard-integrated cab)
A Distance between tumblers	4 590 mm (15'1")
B Undercarriage length	5 820 mm (19'1")
*C Counterweight clearance	1 590 mm (5'3")
D Rear-end swing radius	4 100 mm (13'5")
D' Rear-end length	4 080 mm (13'5")
E Overall width of upperstructure	3 790 mm (12'5")
F Overall height	3 790 mm (12'5")
F' Overall height of cab	3 650 mm (12'0")
*G Min. ground clearance	890 mm (2'11")
H Track gauge	3 300 mm (10'10")
Extended/Retracted	/2 830 mm (9'3")
I Track shoe width	G 650 mm (26")
J Undercarriage width	3 950 mm / 3 480 mm
Extended/Retracted	(13'0") / (11'5")
K Overall width	4 050 mm (13'3")
L Overall length	14 070 mm (46'2")
**M Overall height of boom	4 520 mm (14'10")
N Track height	1 470 mm (4'10")

\* Excluding track shoe lug \*\* Including hydraulic hose.  
EX700H can be use 650 mm (26") track shoe only.

## WORKING RANGES



	EX700H (With Headguard-Integrated cab)		
Boom length	8.25 m (27'1") H-boom	7.10 m (23'4") BE-boom	7.10 m (23'4") BE-boom
Arm length	3.60 m (11'10") H-arm	3.60 m (11'10") H-arm	2.95 m (9'8") BE-arm
A Max. digging reach	14 090 mm (46'3")	12 850 mm (42'2")	12 360 mm (40'7")
A' Max. digging reach (on ground)	13 810 mm (45'4")	12 550 mm (41'2")	12 040 mm (39'6")
B Max. digging depth	8 920 mm (29'3")	7 810 mm (25'7")	7 240 mm (23'9")
B' Max. digging depth (8' level)	8 790 mm (28'10")	7 680 mm (25'2")	7 100 mm (23'4")
C Max. cutting height	12 710 mm (41'8")	11 930 mm (39'2")	11 490 mm (37'8")
D Max. dumping height	8 730 mm (28'8")	7 980 mm (26'2")	7 700 mm (25'3")
E Min. swing radius	6 400 mm (21'0")	5 380 mm (17'8")	5 480 mm (18'0")
F Max. vertical wall depth	7 250 mm (23'9")	5 650 mm (18'6")	4 570 mm (15'0")
Bucket digging force	275.6 kN (28 100 kgf, 62 000 lbf)	275.6 kN (28 100 kgf, 62 000 lbf)	353.1 kN (36 000 kgf, 79 400 lbf)
Arm digging force	238.3 kN (24 300 kgf, 53 600 lbf)	238.3 kN (24 300 kgf, 53 600 lbf)	288.3 kN (29 400 kgf, 64 800 lbf)

# TECHNICAL DATA



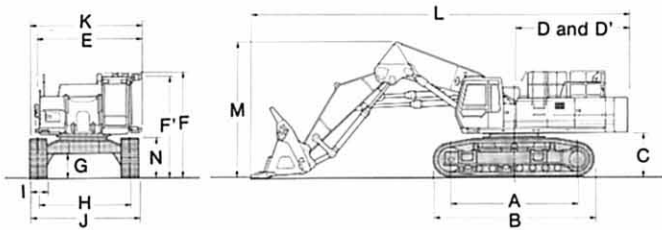
## LOADING SHOVEL ATTACHMENTS

Boom and arms of all-welded, box-section design. Efficient, automatic level crowding achieved by one-lever control because parallel link mechanism keeps the bucket digging angle constant, and level cylinder circuit maintains the bucket height constant. (Auto-Leveling Crowd Mechanism)

EX700/EX700H



## DIMENSIONS

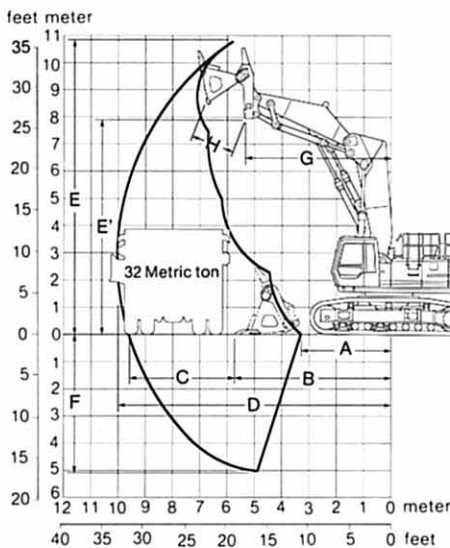


	EX700 EX700H (With Headguard-Integrated cab)
A Distance between tumbler	4 590 mm (15'1")
B Undercarriage length	5 820 mm (19'1")
*C Counterweight clearance	1 590 mm (5'3")
D Rear-end swing radius	4 100 mm (13'5")
D' Rear-end length	4 080 mm (13'5")
E Overall width of upperstructure	3 790 mm (12'5")
F Overall height	3 790 mm (12'5")
F' Overall height of cab	EX700 : 3 520 mm (11'7") EX700H: 3 650 mm (12'0")
*G Min. ground clearance	890 mm (2'11")
H Track gauge	3 300 mm (10'10")
I Track shoe width	G 650 mm (26")
J Undercarriage width	3 950 mm (13'0")
K Overall width	4 050 mm (13'3")
L Overall length	13 610 mm (44'8")
**M Overall height of boom	4 900 mm (16'1")
N Track height	1 470 mm (4'10")

Notes: \* Excluding track shoe lug. \*\* Including hydraulic hose.



## WORKING RANGES



Type of bucket	Bottom dump type	Tilt dump type
A Min. digging distance	3 290 mm (10'10")	3 090 mm (10'2")
B Min. level crowding distance	5 730 mm (18'10")	5 730 mm (18'10")
C Level crowding distance	3 800 mm (12'6")	3 800 mm (12'6")
D Max. digging reach	10 000 mm (32'10")	10 000 mm (32'10")
E Max. cutting height	10 840 mm (35'7")	10 840 mm (35'7")
E' Max. dumping height	7 910 mm (25'11")	4 570 mm (15'0")
F Max. digging depth	5 040 mm (16'6")	5 040 mm (16'6")
G Working radius at max. dumping height	5 340 mm (17'6")	6 300 mm (20'8")
H Max. bucket opening width	1 600 mm (5'3")	—
Crowding force	441.3 kN (45 000 kgf, 99 200 lbf)	441.3 kN (45 000 kgf, 99 200 lbf)
Breakout force	431.5 kN (44 000 kgf, 97 000 lbf)	431.5 kN (44 000 kgf, 97 000 lbf)

## Loading Shovel Bucket (PCSA heaped)

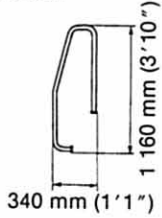
Capacity	Max. width	No. of teeth	Weight	Type
3.60 m <sup>3</sup> (4.71 yd <sup>3</sup> )	2 300 mm (7'7")	6	6 080 kg (13 410 lb)	Bottom dump type rock bucket
4.00 m <sup>3</sup> (5.23 yd <sup>3</sup> )	2 460 mm (8'1")	6	5 620 kg (12 390 lb)	Bottom dump type general purpose bucket
4.00 m <sup>3</sup> (5.23 yd <sup>3</sup> )	2 360 mm (7'9")	6	4 980 kg (10 980 lb)	Tilt dump type rock bucket
4.40 m <sup>3</sup> (5.75 yd <sup>3</sup> )	2 520 mm (8'3")	6	4 630 kg (10 210 lb)	Tilt dump type general purpose bucket

- Easily assembled owing to local assembling system requiring no welding.
- Overall width of below 3 500 mm (11'6") during transportation.

## UPPERSTRUCTURE/UNDERCARRIAGE

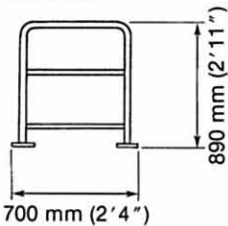
### UPPERSTRUCTURE

#### Handrail



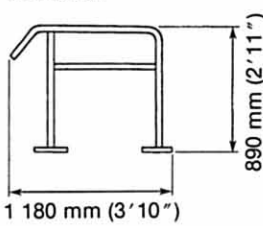
Weight: 6 kg (13 lb) × 2  
Width: 95 mm (4")

#### Handrail



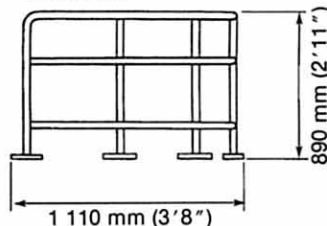
Weight: 9 kg (20 lb) × 1  
Width: 45 mm (2")

#### Handrail



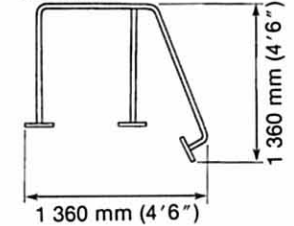
Weight: 11 kg (24 lb) × 1  
Width: 45 mm (2")

#### Handrail



Weight: 19 kg (42 lb) × 1  
Width: 300 mm (1'00")

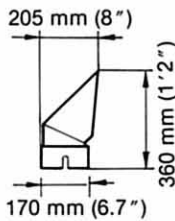
#### Handrail



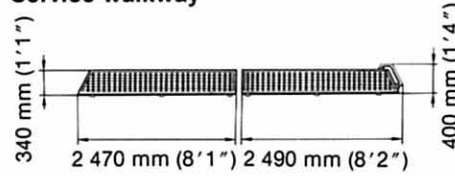
Weight: 12 kg (26 lb) × 1  
Width: 45 mm (2")

#### Pipe exhaust

Weight: 3 kg (7 lb)

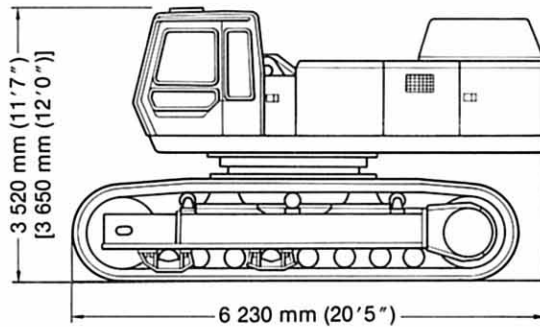


#### Service walkway



Weight: 28 kg (62 lb), Weight: 29 kg (64 lb)  
Height: 115 mm (4.5")

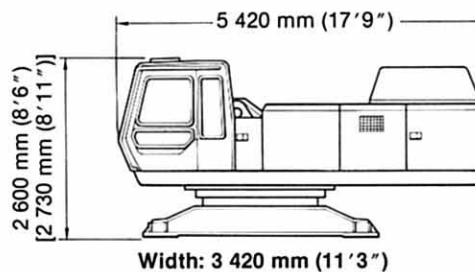
#### Basic machine



Shoe width	Overall width	Weight
650 mm (26")	3 480 mm (11'5")	40 500 kg (89 300 lb)
750 mm (30")	3 580 mm (11'9")	41 200 kg (90 850 lb)
900 mm (35")	3 730 mm (12'3")	42 020 kg (92 650 kg)

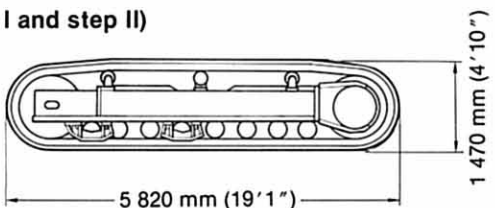
#### Upperstructure

Weight: 20 660 kg (45 560 lb)



[ ] are with headguard-integrated cab (H-version: Standard)

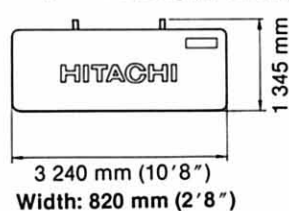
#### Side frames (With step I and step II)



A (Shoe width)	B	Weight
650 mm (26")	830 mm (2'9")	9 920 kg (21 880 lb) × 2
750 mm (30")	830 mm (2'9")	10 270 kg (22 650 lb) × 2
900 mm (35")	900 mm (2'11")	10 680 kg (23 550 lb) × 2

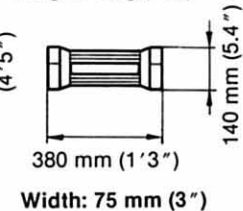
#### Counterweight

Weight: 12 500 kg (27 000 lb)



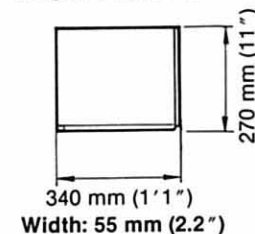
#### Step

Weight: 3 kg (7 lb) × 2



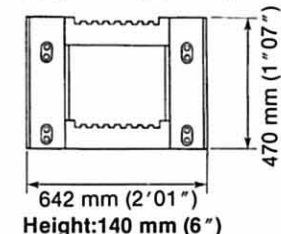
#### Motor piping cover

Weight: 8 kg (18 lb) × 2



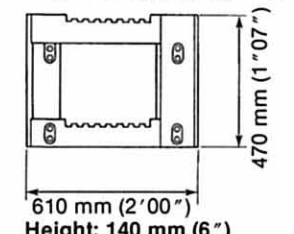
#### Step (Side Frame)

Weight: 66 kg (146 lb) × 3



#### Step (Side Frame)

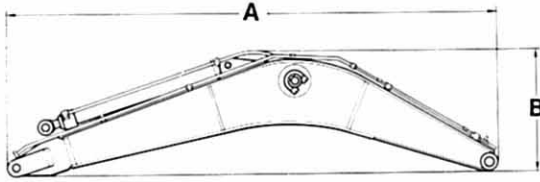
Weight: 62 kg (137 lb) × 1



# TRANSPORTATION

## BACKHOE ATTACHMENTS

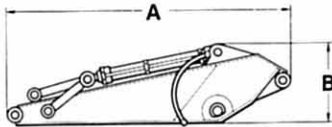
### Boom



	Boom length	A	B	Width	Weight
EX700	8.25 m (27'1")	8 580 mm (28'1")	2 110 mm (6'11")	1 420 mm (4'8")	6 850 kg (15 100 lb)
	10.0 m (32'10")	10 330 mm (33'11")	2 320 mm (7'7")	1 420 mm (4'8")	7 760 kg (17 110 lb)
EX700H	*8.25 m (27'1")	8 580 mm (28'1")	2 110 mm (6'11")	1 420 mm (4'8")	7 080 kg (15 610 lb)
EX700	**7.10 m (23'4")	7 560 mm (24'10")	2 510 mm (8'3")	1 420 mm (4'8")	6 970 kg (15 370 lb)

\* H-boom, \*\* BE-boom

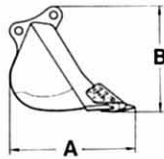
### Arm



	Arm length	A	B	Width	Weight
EX700	2.95 m (9'8")	4 390 mm (14'5")	1 680 mm (5'6")	840 mm (2'9")	4 140 kg (9 130 lb)
	3.60 m (11'10")	5 020 mm (16'6")	1 400 mm (4'7")	840 mm (2'9")	3 560 kg (7 850 lb)
	4.40 m (14'5")	5 820 mm (19'1")	1 460 mm (4'9")	840 mm (2'9")	3 860 kg (8 510 lb)
	5.40 m (17'9")	6 820 mm (22'5")	1 270 mm (4'2")	840 mm (2'9")	3 920 kg (8 640 lb)
EX700H	*3.60 m (11'10")	5 020 mm (16'6")	1 400 mm (4'7")	840 mm (2'9")	3 840 kg (8 470 lb)
EX700	**2.95 m (9'8")	4 390 mm (14'5")	1 680 mm (5'6")	840 mm (2'9")	4 280 kg (9 440 lb)

\* H-arm, \*\* BE-arm

### Bucket

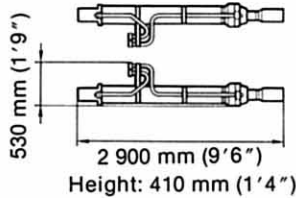


Capacity		A	B	Width	Weight
PCSA heaped	CECE heaped				
1.80 m <sup>3</sup> (2.35 yd <sup>3</sup> )	1.60 m <sup>3</sup>	2 115 mm (6'11")	1 735 mm (5'8")	1 360 mm (4'6")	1 870 kg (4 120 lb)
2.00 m <sup>3</sup> (2.62 yd <sup>3</sup> )	1.80 m <sup>3</sup>	2 115 mm (6'11")	1 735 mm (5'8")	1 490 mm (4'11")	2 060 kg (4 540 lb)
2.40 m <sup>3</sup> (3.14 yd <sup>3</sup> )	2.20 m <sup>3</sup>	2 220 mm (7'3")	1 870 mm (6'2")	1 560 mm (5'1")	2 350 kg (5 180 lb)
2.90 m <sup>3</sup> (3.79 yd <sup>3</sup> )	2.60 m <sup>3</sup>	2 220 mm (7'3")	1 870 mm (6'2")	1 760 mm (5'9")	2 500 kg (5 510 lb)
3.10 m <sup>3</sup> (4.05 yd <sup>3</sup> )	2.80 m <sup>3</sup>	2 220 mm (7'3")	1 870 mm (6'2")	1 870 mm (6'2")	2 630 kg (5 800 lb)
4.10 m <sup>3</sup> (5.30 yd <sup>3</sup> )	3.60 m <sup>3</sup>	2 350 mm (7'9")	1 950 mm (6'5")	2 050 mm (6'9")	3 500 kg (7 720 lb)
*2.90 m <sup>3</sup> (3.79 yd <sup>3</sup> )	2.60 m <sup>3</sup>	2 240 mm (7'4")	1 920 mm (6'4")	1 610 mm (5'3")	3 000 kg (6 640 lb)
*2.90 m <sup>3</sup> (3.79 yd <sup>3</sup> )	2.60 m <sup>3</sup>	2 310 mm (7'7")	1 990 mm (6'6")	1 610 mm (5'3")	3 700 kg (8 160 lb)
*3.60 m <sup>3</sup> (4.71 yd <sup>3</sup> )	3.20 m <sup>3</sup>	2 330 mm (7'8")	1 970 mm (6'6")	1 840 mm (6'0")	3 780 kg (8 330 lb)
*3.20 m <sup>3</sup> (4.19 yd <sup>3</sup> )	2.90 m <sup>3</sup>	2 310 mm (7'7")	1 990 mm (6'6")	1 640 mm (5'5")	3 300 kg (7 280 lb)
**1.90 m <sup>3</sup> (2.48 yd <sup>3</sup> )	1.70 m <sup>3</sup>	2 370 mm (7'9")	2 010 mm (6'7")	***1 400 mm (4'7")	4 100 kg (9 040 lb)
**2.20 m <sup>3</sup> (2.88 yd <sup>3</sup> )	2.00 m <sup>3</sup>	2 370 mm (7'9")	2 010 mm (6'7")	***1 580 mm (5'2")	4 300 kg (9 480 lb)
One-point ripper	—	2 500 mm (8'2")	1 300 mm (4'3")	***800 mm (2'7")	2 600 kg (5 730 lb)

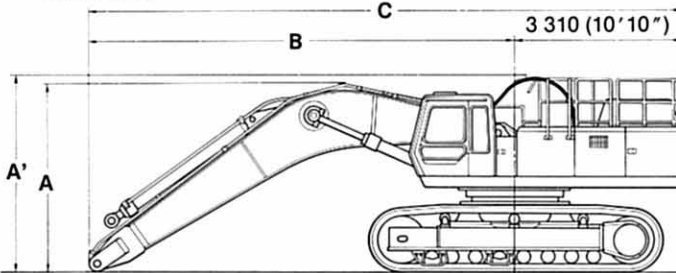
\* Rock bucket, \*\* Ripper bucket, \*\*\* Without side cutters

### Boom cylinders

Weight: 700 kg (1 540 lb) × 2



### Basic machine with boom



	Boom length	Shoe width	Overall width	Weight	A	A'	B	C
EX700	8.25 m (27'1")	650 mm (26")	3 480 mm (11'5")	49 010 kg (108 070 lb)	3 730 mm (12'3")	3 920 mm (12'10")	8 330 mm (27'4")	11 640 mm (38'2")
		750 mm (30")	3 580 mm (11'9")	49 710 kg (109 610 lb)				
		900 mm (35")	3 730 mm (12'3")	50 810 kg (112 040 lb)				
EX700H	*8.25 m (27'1")	650 mm (26")	3 480 mm (11'5")	49 800 kg (109 810 lb)	4 030 mm (13'3")	3 920 mm (12'10")	10 160 mm (33'4")	13 470 mm (44'2")
		750 mm (30")	3 580 mm (11'9")	50 500 kg (111 350 lb)				
		900 mm (35")	3 730 mm (12'3")	51 600 kg (113 780 lb)				
EX700	**7.10 m (23'4")	650 mm (26")	3 480 mm (11'5")	49 130 kg (108 330 lb)	3 860 mm (12'8")	3 890 mm (12'9")	7 180 mm (23'7")	10 490 mm (34'5")
		750 mm (30")	3 580 mm (11'9")	49 830 kg (109 880 lb)				
		900 mm (35")	3 730 mm (12'3")	50 930 kg (112 300 lb)				

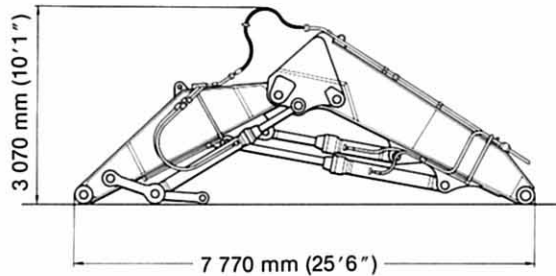
\* H-boom, \*\* BE-boom



## LOADING SHOVEL ATTACHMENTS

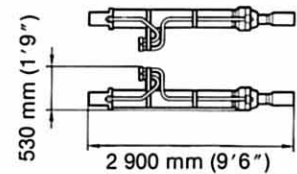
### Boom & arm assembly

Weight: 11 450 kg (25 250 lb)



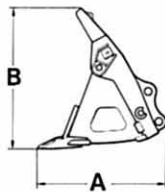
### Boom cylinders

Weight: 700 kg (1 540 lb) × 2



Height: 410 mm (1'4")

### Bucket



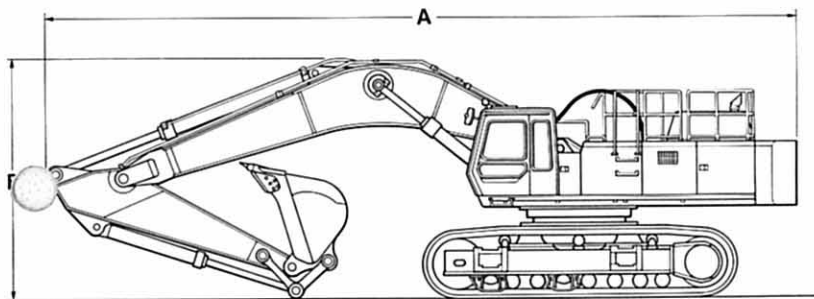
Bucket capacity	A mm (ft in)	B mm (ft in)	Max. width mm (ft in)	Weight kg (lb)	Type
3.60 m <sup>3</sup> (4.71 yd <sup>3</sup> )	2 280 (7'6")	2 570 (8'5")	2 300 (7'7")	6 080 (13 410)	Bottom dump type rock bucket
4.00 m <sup>3</sup> (5.23 yd <sup>3</sup> )	2 300 (7'7")	2 570 (8'5")	2 460 (8'1")	5 620 (12 390)	Bottom dump type general purpose bucket
4.00 m <sup>3</sup> (5.23 yd <sup>3</sup> )	2 290 (7'6")	2 560 (8'5")	2 360 (7'9")	4 930 (10 870)	Tilt dump type rock bucket
4.40 m <sup>3</sup> (5.75 yd <sup>3</sup> )	2 290 (7'6")	2 560 (8'5")	2 520 (8'3")	4 630 (10 210)	Tilt dump type general purpose bucket

## OVERALL

**BACKHOE:** Basic machine with 2.90 m<sup>3</sup>

(3.79 yd<sup>3</sup>; PCSA heaped)

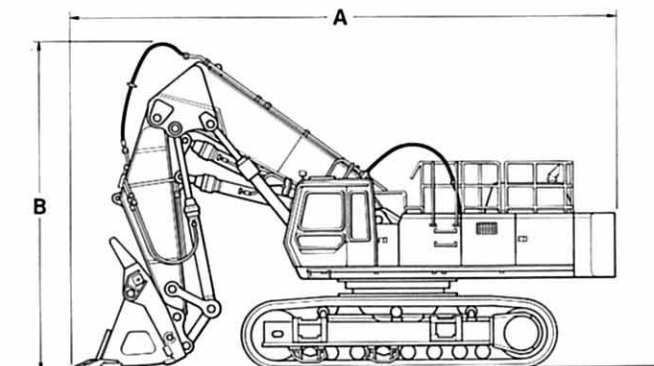
BE-type with BE-front attachments



	A	B	Width
EX700	14 070 mm (46'2")	*1 4 520 mm (14'10")	3 480 mm (11'5")
EX700H	14 070 mm (46'2")	*1 4 520 mm (14'10")	3 480 mm (11'5")
EX700*3	13 020 mm (42'9")	*2 5 020 mm (16'6")	3 480 mm (11'5")
EX700H*4	12 920 mm (42'5")	4 840 mm (15'11")	3 480 mm (11'5")

Notes: \*1 Max. height with pipe.  
\*2 Max. height with hose.  
\*3 With BE-front.  
\*4 With BE-boom and H-arm.

**LOADING SHOVEL:** Basic machine with 4.00 m<sup>3</sup> (5.23 yd<sup>3</sup>)

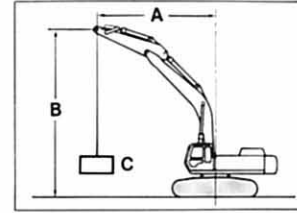


A: 9 830 mm (32'3")  
B: 5 910 mm (19'5")  
Width: 3 480 mm (11'5")

# LIFTING CAPACITIES

With retracted bucket cylinder  
Overload alarm device switch: OFF

## METRIC MEASURE



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

### EX700

Rating over-side or 360 degrees

Rating over-front

Unit : 1 000 kg

Conditions	Load point height m	Load radius m										At max. reach								
		3		4		6		8		10		12				@ m				
Boom 8.25 m Arm 2.95 m Without Bucket Shoes 650 mm	10																	*12.1	*12.1	8.58
																		*14.3	12.1	8.58
	8							*12.2	*12.2									11.0	9.15	9.98
								*14.3	13.5									11.0	9.15	9.98
	6							*13.7	12.7	10.8	8.88							9.39	7.68	10.8
								15.3	12.7	10.8	8.88							9.39	7.68	10.8
	4							14.3	11.6	10.3	8.41							8.55	6.93	11.2
								14.3	11.6	10.3	8.41							8.55	6.93	11.2
	2							13.4	10.8	9.88	7.98							8.28	6.67	11.2
								13.4	10.8	9.88	7.98							8.28	6.67	11.2
0 (Ground)							13.0	10.4	9.61	7.72							8.51	6.84	10.9	
							13.0	10.4	9.61	7.72							8.51	6.84	10.9	
-2			*22.4	22.0	19.8	15.7	12.9	10.3	9.66	7.76							10.2	8.40	7.56	
			*24.0	22.0	19.8	15.7	12.9	10.3	9.66	7.76							10.2	8.40	7.56	
-4			*27.9	*27.9	20.3	16.1	13.3	10.7									11.5	9.31	8.99	
			*29.6	*29.6	20.3	16.1	13.3	10.7									11.5	9.31	8.99	
Boom 8.25 m Arm 3.60 m Without Bucket Shoes 650 mm	10																	*9.95	*9.95	9.33
																		*11.4	10.9	9.33
	8									*11.0	9.70							*9.35	8.60	10.6
										11.6	9.70							10.3	8.60	10.6
	6									*13.2	*13.2	11.3	9.37					8.97	7.38	11.4
										*15.6	13.3	11.3	9.37					8.97	7.38	11.4
	4					*21.4	18.3	15.0	12.3	10.8	8.89							11.8	8.25	6.74
						22.5	18.3	15.0	12.3	10.8	8.89							11.8	8.25	6.74
	2					20.9	16.7	14.1	11.4	10.3	8.42							8.00	6.50	11.8
						20.9	16.7	14.1	11.4	10.3	8.42							8.00	6.50	11.8
0 (Ground)					20.3	16.2	13.5	10.9	10.0	8.11							8.18	6.63	11.5	
					20.3	16.2	13.5	10.9	10.0	8.11							8.18	6.63	11.5	
-2			*16.6	*16.6	20.3	16.2	13.4	10.8	9.91	8.01							8.90	7.21	10.8	
			*17.8	*17.8	20.3	16.2	13.4	10.8	9.91	8.01							8.90	7.21	10.8	
-4		*25.1	*25.1	*30.8	*30.8	20.7	16.5	13.5	10.9								10.5	8.57	9.72	
		*26.9	*26.9	*33.0	32.0	20.7	16.5	13.5	10.9								10.5	8.57	9.72	
-6					*18.6	17.3											*13.1	11.9	7.89	
					21.5	17.3											14.6	11.9	7.89	

Equipped with heavy lifting system (option)

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. \*Indicates load limited by hydraulic capacity.

With retracted bucket cylinder  
Overload alarm device switch: OFF

## METRIC MEASURE

### EX700



Rating over-side or 360 degrees



Rating over-front

Unit : 1 000 kg

Conditions	Load point height m	Load radius m										At max. reach					
		3		4		6		8		10		12		@ m			
Boom 8.25 m Arm 4.40 m Without Bucket Shoes 650 mm	10									*9.38	*9.38			*7.63	*7.63	10.3	
										*10.8	9.95			*8.86	*8.86	10.3	
	8									*9.88	*9.88			*7.21	*7.21	11.4	
										*11.8	9.89			*8.39	7.54	11.4	
	6									*10.6	9.48	8.30	6.80	*7.12	6.54	12.2	
										11.4	9.48	8.30	6.80	8.00	6.54	12.2	
	4					*19.2	18.9	*14.2	12.5	10.8	8.94	8.07	6.58	*7.29	6.00	12.6	
						*22.6	18.9	15.2	12.5	10.8	8.94	8.07	6.58	7.40	6.00	12.6	
	2					21.2	17.0	14.2	11.5	10.3	8.40	7.80	6.31	7.17	5.78	12.6	
						21.2	17.0	14.2	11.5	10.3	8.40	7.80	6.31	7.17	5.78	12.6	
	0 (Ground)					20.3	16.1	13.5	10.9	9.89	7.99	7.60	6.12	7.29	5.86	12.3	
						20.3	16.1	13.5	10.9	9.89	7.99	7.60	6.12	7.29	5.86	12.3	
	-2		*11.7	*11.7	*15.6	*15.6	20.0	15.9	13.2	10.6	9.68	7.79			7.83	6.30	11.7
			*12.6	*12.6	*16.7	*16.7	20.0	15.9	13.2	10.6	9.68	7.79			7.83	6.30	11.7
-4		*21.0	*21.0	*25.9	*25.9	20.2	16.0	13.2	10.6	9.77	7.87			9.04	7.30	10.6	
		*22.5	*22.5	*27.7	*27.7	20.2	16.0	13.2	10.6	9.77	7.87			9.04	7.30	10.6	
-6		*33.5	*33.5	*28.9	*28.9	*20.6	16.6	13.6	11.0					11.7	9.54	9.01	
		*35.8	*35.8	*34.3	32.1	20.8	16.6	13.6	11.0					11.7	9.54	9.01	
Boom 8.25 m Arm 5.40 m Without Bucket Shoes 650 mm	10													*5.89	*5.89	11.4	
														*6.88	*6.88	11.4	
	8												*7.91	7.32	*5.60	*5.60	12.5
													8.84	7.32	*6.56	*6.56	12.5
	6									*9.64	*9.64	8.65	7.14	*5.54	*5.54	13.2	
										*11.4	9.89	8.65	7.14	*6.49	5.86	13.2	
	4					*16.7	*16.7	*12.8	*12.8	*10.9	9.27	8.32	6.82	*5.64	5.41	13.5	
						*19.6	*19.6	15.1	*15.1	11.2	9.27	8.32	6.82	*6.62	5.41	13.5	
	2					*21.3	17.8	14.6	11.9	10.5	8.65	7.97	6.48	*5.93	5.22	13.5	
						22.1	17.8	14.6	11.9	10.5	8.65	7.97	6.48	6.48	5.22	13.5	
	0 (Ground)					20.6	16.4	13.7	11.1	10.0	8.13	7.68	6.19	6.45	5.26	13.3	
						20.6	16.4	13.7	11.1	10.0	8.13	7.68	6.19	6.45	5.26	13.3	
	-2		*10.9	*10.9	*14.6	*14.6	20.0	15.8	13.2	10.6	9.70	7.81	7.52	6.03	6.94	5.56	12.7
			*11.8	*11.8	*15.7	*15.7	20.0	15.8	13.2	10.6	9.70	7.81	7.52	6.03	6.94	5.56	12.7
-4		*17.7	*17.7	*22.0	*22.0	19.9	15.8	13.1	10.5	9.62	7.73			7.79	6.27	11.7	
		*19.0	19.0	*23.6	*23.6	19.9	15.8	13.1	10.5	9.62	7.73			7.79	6.27	11.7	
-6		*26.6	*26.6	*32.8	31.1	20.3	16.2	13.3	10.7	9.90	8.00			9.55	7.73	10.3	
		*28.4	*28.4	*35.0	31.1	20.3	16.2	13.3	10.7	9.90	8.00			9.55	7.73	10.3	
-8				*25.0	*25.0	*17.6	17.1	*12.0	11.5					*11.6	11.3	8.12	
				*29.8	*29.8	*21.0	17.1	14.1	11.5					13.9	11.3	8.12	

Equipped with heavy lifting system (option)

Notes: 1. Ratings are based on SAE J1097.

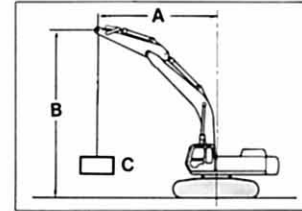
2. Lifting capacity of the EX Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. \*Indicates load limited by hydraulic capacity.

# LIFTING CAPACITIES

With retracted bucket cylinder  
Overload alarm device switch: OFF

## METRIC MEASURE



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

### EX700

Rating over-side or 360 degrees

Rating over-front

Unit : 1 000 kg

Conditions	Load point height m	Load radius m										At max. reach					
		3		4		6		8		10		12				@ m	
Boom 7.10 m BE-boom Arm 2.95 m BE-arm Without Bucket Shoes 650 mm	8							*13.4	*13.4						*13.5	11.8	8.55
								*15.7	13.4						14.3	11.8	8.55
	6					*16.9	*16.0	*14.2	12.9						11.5	9.50	9.53
						*19.8	*19.8	15.6	12.9						11.5	9.50	9.53
	4					*21.0	18.3	14.7	12.0	10.3	8.40				10.3	8.39	10.0
						22.6	18.3	14.7	12.0	10.3	8.40				10.3	8.39	10.0
	2					20.9	16.7	13.8	11.2	10.0	8.08				9.91	8.01	10.0
						20.9	16.7	13.8	11.2	10.0	8.08				9.91	8.01	10.0
	0 (Ground)					20.2	16.0	13.3	10.7						10.2	8.28	9.69
						20.2	16.0	13.3	10.7						10.2	8.28	9.69
-2		*23.4	*23.4	*32.7	31.1	20.2	16.0	10.7	13.3					11.7	9.44	8.85	
		*25.1	*25.1	*35.0	31.1	20.2	16.0	10.7	13.3					11.7	9.44	8.85	
-4				*28.4	*28.4	*20.4	16.7							*15.5	12.6	7.37	
				*33.8	32.1	20.9	16.7							15.6	12.6	7.37	

### EX700H

Boom 8.25 m H-boom Arm 3.60 m H-arm Without Bucket Shoes 650 mm	10														*9.85	*9.85	9.33
															*11.3	10.7	9.33
	8									*10.7	9.48				*9.26	8.37	10.6
										11.4	9.48				*10.7	8.37	10.6
	6								*12.9	*12.9	11.0	9.13			8.75	7.14	11.4
									*15.2	13.1	11.0	9.13			8.75	7.14	11.4
	4					*20.9	17.9	14.7	12.0	10.5	8.63				8.03	6.49	11.8
						22.2	17.9	14.7	12.0	10.5	8.63				8.03	6.49	11.8
	2					20.5	16.3	13.8	11.1	10.0	8.14				7.77	6.24	11.8
						20.5	16.3	13.8	11.1	10.0	8.14				7.77	6.24	11.8
	0 (Ground)					19.9	15.7	13.2	10.6	9.73	7.81				7.95	6.37	11.5
						19.9	15.7	13.2	10.6	9.73	7.81				7.95	6.37	11.5
	-2				*16.5	*16.5	19.9	15.7	13.0	10.4	9.64	7.72			8.66	6.95	10.8
					*17.7	*17.7	19.9	15.7	13.0	10.4	9.64	7.72			8.66	6.95	10.8
-4		*25.1	*25.1	*30.7	*30.7	20.3	16.1	13.2	10.6					10.3	8.30	9.72	
		*26.8	*26.8	*32.9	31.3	20.3	16.1	13.2	10.6					10.3	8.30	9.72	
-6					*18.1	16.9								*12.8	11.6	7.89	
					*21.1	16.9								14.3	11.6	7.89	

Equipped with heavy lifting system (option)

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. \*Indicates load limited by hydraulic capacity.

The lifting capacity is defined by the overload alarm device set pressure. When hydraulic pressure reaches the set pressure, the alarm buzzer sounds.

With retracted bucket cylinder  
Overload alarm device switch: ON

## METRIC MEASURE

### EX700



Rating 360 degrees

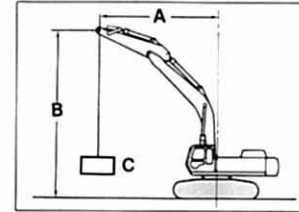
Unit : 1 000 kg

Conditions	Load point height m	Load radius m						At max. reach	
		3	4	6	8	10	12		@ m
Boom 8.25 m Arm 2.95 m Without Bucket Shoes 650 mm Setting pressure 190 kgf/cm <sup>2</sup> (18.6 MPa)	10							5.92	8.58
	8				5.95			5.58	9.98
	6				6.58	5.62		5.49	10.8
	4				7.42	5.98		5.54	11.2
	2				8.16	6.35		5.67	11.2
	0 (Ground)				8.51	6.54		5.84	10.9
	-2			11.3	8.33	6.26		6.01	10.2
	-4		12.9	9.90	7.32			6.02	8.99
Boom 8.25 m Arm 3.60 m Without Bucket Shoes 650 mm Setting pressure 160 kgf/cm <sup>2</sup> (15.7 MPa)	10							4.38	9.33
	8				4.17			4.16	10.6
	6				5.15	4.35		4.11	11.4
	4			8.45	5.88	4.70		4.16	11.8
	2			9.65	6.56	5.06		4.27	11.8
	0 (Ground)			9.98	6.93	5.29		4.42	11.5
	-2		13.6	9.66	6.95	5.23		4.58	10.8
	-4	14.1	12.0	8.69	6.35			4.67	9.72
-6			6.60				4.42	7.89	
Boom 8.25 m Arm 4.40 m Without Bucket Shoes 650 mm Setting pressure 160 kgf/cm <sup>2</sup> (15.7 MPa)	10					3.63		3.67	10.3
	8					3.58		3.52	11.4
	6					3.83	3.50	3.50	12.2
	4			7.51	5.30	4.22	3.64	3.56	12.6
	2			8.92	6.04	4.63	3.84	3.67	12.6
	0 (Ground)			9.60	6.57	4.95	3.96	3.81	12.3
	-2	11.7	14.6	9.60	6.74	5.04		3.97	11.7
	-4	16.5	13.1	8.95	6.41	4.67		4.11	10.6
-6		10.5	7.40	5.21			4.08	9.01	
Boom 8.25 m Arm 5.40 m Without Bucket Shoes 650 mm Setting pressure 160 kgf/cm <sup>2</sup> (15.7 MPa)	10							3.17	11.4
	8						3.04	3.08	12.5
	6					3.44	3.13	3.08	13.2
	4			6.59	4.79	3.87	3.34	3.14	13.5
	2			8.17	5.61	4.33	3.60	3.24	13.5
	0 (Ground)			9.19	6.27	4.73	3.82	3.38	13.3
	-2	10.9	14.6	9.56	6.62	4.96	3.89	3.53	12.7
	-4	17.7	14.3	9.29	6.57	4.88		3.69	11.7
-6	15.8	12.3	8.28	5.90	4.11		3.79	10.3	
-8		8.60	5.94	3.72			3.56	8.12	

# LIFTING CAPACITIES

The lifting capacity is defined by the overload alarm device set pressure. When hydraulic pressure reaches the set pressure, the alarm buzzer sounds.

With retracted bucket cylinder  
Overload alarm device switch: ON



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

## METRIC MEASURE

### EX700



Rating 360 degrees

Unit : 1 000 kg

Conditions	Load point height m	Load radius m						At max. reach	
		3	4	6	8	10	12		@ m
Boom 7.10 m	8				5.23			5.20	8.55
BE-boom	6			6.82	5.43			5.00	9.53
Arm 2.95 m	4			8.18	5.96	5.00		5.00	10.0
BE-arm	2			9.31	6.50	5.15		5.12	10.0
Without bucket	0 (Ground)			9.64	6.76			5.29	9.69
Shoes 650 mm	-2	15.2	13.1	9.07	6.40			5.44	8.85
Setting pressure: 160 kgf/cm <sup>2</sup> (15.7 MPa)	-4		10.1	7.24				5.28	7.37

### EX700H

	10							4.09	9.33
Boom 8.25 m	8					3.87		3.86	10.6
H-boom	6				4.83	4.04		3.80	11.4
Arm 3.60 m	4			7.79	5.51	4.36		3.84	11.8
H-arm	2			9.11	6.14	4.70		3.95	11.8
Without bucket	0 (Ground)			9.42	6.52	4.92		4.09	11.5
Shoes 650 mm	-2		12.9	9.12	6.51	4.86		4.24	10.8
Setting pressure: 160 kgf/cm <sup>2</sup> (15.7 MPa)	-4	13.3	11.3	8.18	5.94			4.33	9.72
	-6			6.14				4.06	7.89



## STANDARD EQUIPMENT

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

### ENGINE

- 75 A alternator
- Dry-type air filter with evacuator valve
- 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-idle system
- Quick-idle system

### HYDRAULIC SYSTEM

- ETS (Electronic Total control System)
- E-P control system (power mode selector)
- OHS (Optimum Hydraulic System)
- FPS (Fuel-saving Pump System)
- Boom-swing priority system
- Power saving system
- 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
- 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 intermittent windshield wipers, front window washer, side mirror, adjustable suspension seat with armrests, footrest, electric double horn, AM-FM radio with digital clock, auto-idle switch, quick-idle switch, seat belt, cigarette lighter, ashtray, parcel pocket, floor mat, and pilot control shut-off lever, emergency tool.

### MONITOR SYSTEM

- Meters: Hourmeter, engine coolant temperature gauge and fuel meter.
- Warning lamps: Alternator charge, engine oil pressure, engine overheat, engine oil filter clog, 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

- 4 working lights and 1 cab light

### UPPERSTRUCTURE

- Undercover
- 12 500 kg (27 600 lb) counterweight
- Fuel level gauge
- Hydraulic oil level gauge
- Tool box
- Utility space
- Rearview mirror
- Swing parking brake
- 24-V power supply

### 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

- 650 mm (26") double grouser shoes

### FRONT ATTACHMENTS

- Bucket clearance adjust mechanism
- Centralized lubrication system
- Dirt seals on all bucket pins
- 8.25 m (27'1") boom
- 3.60 m (11'10") arm
- 2.90 m<sup>3</sup> (3.79 yd<sup>3</sup>): PCSA heaped bucket

### MISCELLANEOUS

- Standard tool kit
- Lockable machine covers
- Fuel filling cap
- Skid-resistant tapes, left service walkway and handrails.
- Reflectors

### EX700H (Heavy-duty version)

- Headguard-integrated cab (pressurized type)
- H-boom 8.25 (17'1") for backhoe
- H-arm 3.60 m (11'10") for backhoe
- H-track guard
- Reinforced undercover
- Reinforced steps on the side frames



## OPTIONAL EQUIPMENT

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

- 750 mm (30") double grouser shoes
- 900 mm (35") double grouser shoes
- Full-length track guard
- Air conditioner (pressurized cab)
- Pneumatic grease gun with hose reel
- Hose rupture valve
- Swing alarm with lamps

- Travel alarm with cancel switch
- Overload lifting alarm (with cancel switch)
- Electric fuel refilling pump
- Heavy lifting system
- Auto lubricator

- Front window shutter-preventing film (except Headguard-integrated cab)
- Headguard-integrated cab (with pressurizer kit)
- H-track guard
- Reinforced undercover for upperstructure
- Reinforced steps on the side frames

# HITACHI

# EX700

These specifications are subject to change without notice.

**Ⓢ Hitachi Construction Machinery Co., Ltd.**

**Head Office:** Nippon Bldg., 6-2, 2-chome, Ohtemachi,  
Chiyoda-ku, Tokyo 100, Japan

**Telephone:** Tokyo (03) 3245-6388

**Facsimile:** Tokyo (03) 3246-2609

**Telex:** J32539 HITACONJ

**Cable Address:** "TOKHITACHIKENKI"

KS-E158CE

Printed in Japan KG-R[H, H](GT3-S, KG-R)