

HITACHI

SUPER EX120-V

Rated Engine HP

81 hp (60 kW)

Max Power: 88 hp (66 kW)

Operating Weight

EX120: 26,700 lbs

(12 100 kg)

Bucket Capacity

0.25 – 0.85 yd³

(0.19 – 0.66 m³)



Model	Operating Weight	Travel Speeds	Max. Lift Capacity	Gradeability	Traction Force
EX120	26,700 lbs (12 100 kg)	0 - 3.4 mph (0 - 5.5 km/h)	14,290 lbs (6 480 kg)	35° (70%)	22,000 lbf (10 000 kgf)

You'll like the powerful Hitachi EX120. It is fast, extremely powerful for its size, and very responsive. The EX120 features the most advanced computerized horsepower and control system available: Hitachi's exclusive *Dash-5* system. This system is renowned for its smooth multi-function control. The proven Isuzu engine is perfectly matched to the hydraulic system for years of reliable and yet outstanding performance.

Specifics

1. Low noise design eliminates high-pitch noise inside the cab.
2. Easy-maintenance HN bushings which are made of sintered composite iron alloy with high-viscosity lubricating oil.
3. Fresh-air type, large-capacity air conditioner standard.
4. Auto-lubrication system for ensured lubrication of boom and arm pins optionally available.
5. Hitachi's original shockless valve and quick warm-up control system for engine and hydraulic oil means highly responsive controls immediately after start-up.
6. Round hydraulic tank provides superior circulation of the hydraulic oil so that it's kept cleaner and cooler.
7. A rugged X-form center frame assures superb durability.
8. Super-strong hydraulic oil piping and hoses provide outstanding reliability and extremely clean machines.
9. All Hitachi excavators feature heavy-duty booms and arms reinforced with bulkheads for extra long life.

- Isuzu A-4BG1T turbocharged, direct injection diesel engine is extremely fuel-efficient and reliable. It meets all EPA clean air requirements.
- *Dash-5* engine/hydraulic control with three power modes and four work modes.
- Power modes:
 1. **Normal:** Standard operation
 2. **H/P:** Increased engine rpm and horsepower
 3. **E:** Maximum fuel efficiency in light duty applications
- Work modes:
 1. General Purpose
 2. Grading Mode
 3. Precision Mode
 4. Attachment Mode
- Cab mounted on six fluid-filled, vibration dampening, shock absorbing mounts.
- Compact travel motor design; protected piping reduces opportunity of damage.

Features

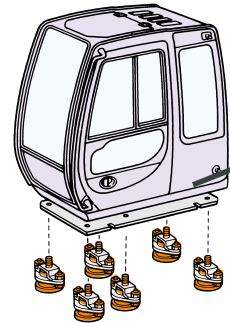
- The updated work modes provide power in the order of inherent priority to do the best job for the project at hand. The Hitachi EX120 has excellent multi-function features which allow multiple jobs such as travel, swing and boom raise all at the same time without any one function stopping.
- The Super EX120, as with all Hitachi excavator models, is built to maximize performance, reliability, and operator comfort through optimum design and quality components. The Isuzu engine is matched to the hydraulic pumps for outstanding multiple function performance. The undercarriage, carbody, and front attachment are all balanced and designed for maximum strength. All of this means that your Hitachi EX120 will work economically and productively for years and for thousands of hours at minimum operating costs.

Model Features: EX120

Operator Comfort: A Top Priority

Sitting in one place, all day, operating a machine productively takes concentration and dedication to doing a good job. It also means that a smart owner is going to do everything possible to make sure his operator is comfortable in the cab. The Hitachi EX120 is an excellent example of how comfortable a well-designed cab can be.

The widest cab in its class: 3 ft. 4 in. (1 005 mm). Lots of leg room, wide side door. The ergonomically-designed seat is fully adjustable with tilting armrests, tilting back, floating or solidly fixed seat, headrest tilt, and seat raise/lower.



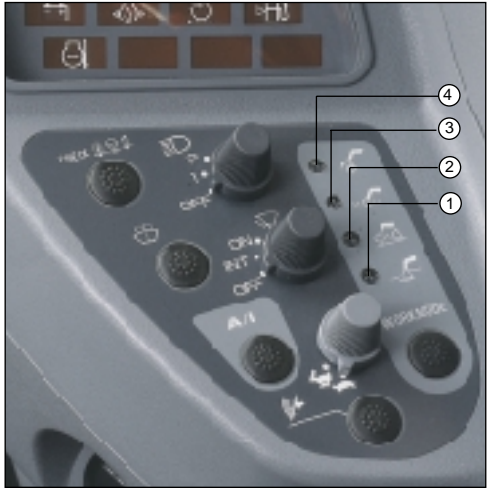
The cab floats on six fluid-filled elastic mounts that smooth out shocks and jolts.

The hand control levers can be raised or lowered to match the operator's build, and the controls can either glide forward or back with the seat or remain fixed while the seat moves.

AM-FM Radio



The work modes, power modes, air conditioning controls, and dial-type engine speed control are all located beside the operator.



Work Modes For Increased Performance

The four work modes have been enhanced from prior models.

- ① The General Purpose Mode is appropriate for general digging and truck loading. All circuits work together.
- ② The Grading Mode provides priority to the combined operation of boom raise, stick forward and bucket adjustment while limiting control response so that the movement is smooth.
- ③ The Precision Mode keeps the front attachment moving precisely and slowly.
- ④ The Attachment Mode is designed to automatically match the oil flow requirements of selected attachments such as a hydraulic hammer. Additional piping is required (optional).

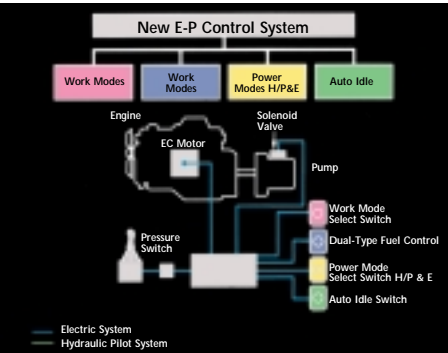
H/P and E Modes For Increased Efficiency

- The **Normal** mode is for normal or average applications. The engine runs at an efficient maximum speed for longest life and general economy. The hydraulic pump runs at a baseline 100%.
- The **H/P** mode provides the full power of the EX120 on command. This function increases engine rpm by 6% when activated, thus providing 5% more horsepower when needed.
 - Engine rpm automatically increases when the arm-in function meets resistance.
 - Automatically switches back to normal rpm when resistance is overcome for fuel savings.
- The **E** mode provides 94% of full power while providing 15% more fuel efficiency. It is appropriate for light-duty work because it allows you to work longer before refueling.

Powertrain: Efficient, Powerful

Economical Isuzu 81 hp Engine Is Dependable, Long-Lasting

The Isuzu A-4BG1T engine is one of the most widely used, most proven and most dependable engines in the world. In the EX120, it is turbocharged. The 4-cylinder diesel features direct injection, a maximum torque of 231 lbf·ft (32 kgf·m), and a mechanical governor. It meets all EPA and CARB regulations for noise and pollution.



Outstanding Traction Force

The traction force is an impressive 22,000 lbf (10,000 kgf) for excellent maneuvering through mud and over obstacles.

Enhanced E-P Pump Control

A sophisticated micro-computer system guided by multiple actuators is standard on the EX120. Hitachi is renowned for the smooth operation of its excavators and this model is no exception. The new *Dash-5* controls provide quick, accurate response to multi-function swing-lift-bucket curl and travel operations.

Enhanced Cooling Protection

The EX120 features a 4.9 U.S. gallon (18.4 liters) radiator coolant tank, a tightly fitting fan shroud and a high capacity fan. The radiator fins can easily be cleaned without tools and the coolant level can be checked from the ground during normal inspection.

Long-Life, High-Hour Durability



Perfectly Matched Hydraulic System

Hitachi expertly matches the engine to the hydraulic pumps and control valves for the best response and longest life possible. The pumps are designed to work specifically with the Isuzu engine – regardless of rpm or work load.



Longer-Life Undercarriage

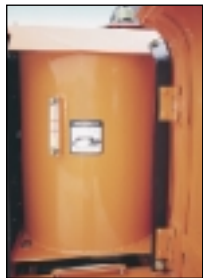
Hitachi undercarriages feature premium grade tracks with large track links fitted with struts for added durability. Pin seals prevent dirt in the bushings and reduce inner wear. The tracks feature heavy-duty track links, front idlers, upper/lower rollers, and track center guard.



Air Cleaner Stored Inside



Remote Lube



Round Hydraulic Tank

A round hydraulic tank provides superior circulation of the hydraulic oil so that it's kept cleaner and more evenly cooled.



Super Strong Piping

Hitachi is legendary for its strong, long-lasting hydraulic hose, piping and fittings. This provides outstanding reliability and cleanliness.



Round Travel Motor Covers

Round travel motor covers provide a higher resistance to deformation.



Premium Quality Design

Hitachi Construction Machinery invests over \$75 million a year in research and development to build ever-better hydraulic excavators.

That research shows itself over and over in the new *Dash-5* EX120. It has an excellent cab that is comfortable. The undercarriage is extremely rugged, and the boom and arm are designed for years of use.



Rugged X-Frame

The tough tractor-type undercarriage and X-form center frame assure superb durability.

Specifications: EX120



Engine

Model	Isuzu A-4BG1T
Type	4-cycle water-cooled, direct injection
Aspiration	Turbocharged
No. of cylinders	4
Rated flywheel horsepower (DIN 6271, net)	85 PS (63 kW) at 2,100 rpm (min ⁻¹)
Rated flywheel horsepower (SAE J1349, net)	81 hp (60 kW) at 2,100 rpm (min ⁻¹)
Maximum torque	231 lbf-ft (32 kgf-m) at 1,600 rpm (min ⁻¹)
Piston displacement	264 in ³ (4.329 L)
Bore and stroke	4.13" x 4.92" (105 mm x 125 mm)
Batteries	2 x 12 V, 65 AH
Governor	Mechanical, speed control with stepping motor



Hydraulic System

• Work mode selector: General purpose mode / Grading mode / Precision mode / Attachment mode	
Main pumps	2 variable displacement axial piston pumps
Maximum oil flow	2 x 25.1 US gpm (95 L/min, 20.9 Imp gpm)
Pilot pump	1 gear pump
Maximum oil flow	9.3 US gpm (35.3 L/min, 7.8 Imp gpm)

Hydraulic Motors

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

Relief Valve Settings

Implement circuit	4,980 psi (350 kgf/cm ²)
Swing circuit	4,550 psi (320 kgf/cm ²)
Travel circuit	4,980 psi (350 kgf/cm ²)
Pilot circuit	540 psi (38 kgf/cm ²)

Hydraulic Cylinders

High-strength piston rods and tubes. Cylinder cushion mechanisms are provided in all cylinders to absorb shock when pistons reach their stroke ends.

Dimensions

	Qty	Bore	Rod diameter
Boom	2	4.13" (105 mm)	2.76" (70 mm)
Arm	1	4.33" (110 mm)	3.15" (80 mm)
Bucket	1	3.74" (95 mm)	2.56" (65 mm)

Hydraulic Filters

Hydraulic circuits use high quality hydraulic filters. A suction filter is incorporated in the suction line, and 10 micron 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.

Implement levers	2
Travel levers with pedals	2

These specifications are subject to change without notice. Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features.



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 12.7 rpm (min⁻¹)

Operator's Cab

Independent roomy cab, 40" (1 005 mm) wide by 66" (1 665 mm) high, conforming to ISO* Standards. Reinforced glass windows on 4 sides for excellent visibility. Front windows (upper and lower) can be opened. Adjustable, reclining seat with armrests; movable with or without control levers.

* International Standardization Organization



Undercarriage

Tracks

Tractor-type undercarriage. Welded track frame using carefully selected materials. Side frame welded to track frame. Lubricated track rollers, idlers, and sprockets with floating seals. Track shoes with triple grousers made of induction-hardened rolled alloy. Flat and triangular shoes are also available. Heat-treated connecting pins with dirt seals. Hydraulic (grease) track adjusters with shock-absorbing recoil springs.

Numbers of Rollers and Shoes on Each Side

Upper rollers	1	Track shoes	44
Lower rollers	7		

Traction Device

Each track driven by 2-speed axial piston motor through planetary reduction gear for counter-rotation 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, ensuring smooth stops.

Automatic transmission system: High - Low	
Travel speeds	High: 0 to 3.4 mph (5.5 km/h) Low: 0 to 2.0 mph (3.2 km/h)
Maximum traction force	22,000 lbf (10 000 kgf)

Weights and Ground Pressure

Equipped with 15'1" (4.60 m) boom, 8' 3" (2.52 m) arm and 0.72 yd³ (0.55 m³: PCSA heaped) H-type bucket.

Shoe type	Shoe width	Operating weight	Ground pressure
Triple grouser	20" (500 mm)	26,000 lb (11 800 kg)	5.40 psi (0.38 kgf/cm ²)
	24" (600 mm)	26,700 lb (12 100 kg)	4.55 psi (0.32 kgf/cm ²)
	28" (700 mm)	27,100 lb (12 300 kg)	3.98 psi (0.28 kgf/cm ²)
Flat	20" (510 mm)	27,100 lb (12 300 kg)	5.55 psi (0.39 kgf/cm ²)
Triangular	28" (700 mm)	26,700 lb (12 100 kg)	3.98 psi (0.28 kgf/cm ²)

Weight of the basic machine [including 4,960 lb (2 250 kg) counterweight and triple grouser shoes, but excluding front-end attachment, fuel, hydraulic oil, engine oil, and coolant etc.] is:

EX120	20,500 lb (9 300 kg) with 20" (500 mm) shoes
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Specifications: EX120

Service Refill Capacities

	US gal	Liters	Imp gal
Fuel tank	66.1	250.0	55.0
Engine coolant	4.9	18.4	4.0
Engine oil	4.3	16.2	3.6
Swing mechanism	0.8	3.2	0.7
Travel final drive device (each side)	0.9	3.5	0.8
Hydraulic system	35.4	134.0	29.5
Hydraulic tank	18.2	69.0	15.2

Bucket Selection Chart Bucket capacity indicated is SAE heaped.

Material (loose weight)	General-Purpose Bucket*		Heavy-Duty Bucket*	
3,400 - 3,100 lb/yd³ (2 020 - 1 840 kg/m³) Sand and gravel, wet Sand, wet	0.63 yd³ 0.63 yd³	0.5 m³ 0.5 m³	0.50 yd³ 0.50 yd³	0.4 m³ 0.4 m³
2,900 - 2,550 lb/yd³ (1 720 - 1 510 kg/m³) Sand and gravel, dry Sand, moist Rock, granite, blasted and broken Clay, wet Earth, wet Limestone, broken or crushed Earth, dry	0.75 yd³ 0.75 yd³ 0.63-0.88 yd³ 0.75 yd³ 0.75 yd³ 0.50-0.75 yd³ 0.63-0.75 yd³	0.6 m³ 0.6 m³ 0.5-0.7 m³ 0.6 m³ 0.6 m³ 0.4-0.6 m³ 0.5-0.6 m³	0.63 yd³ 0.63 yd³ 0.50-0.75 yd³ 0.63 yd³ 0.63 yd³ 0.50-0.63 yd³ 0.63 yd³	0.5 m³ 0.5 m³ 0.4-0.6 m³ 0.5 m³ 0.5 m³ 0.4-0.5 m³ 0.5 m³
2,500 - 2,100 lb/yd³ (1 480 - 1 250 kg/m³) Clay, dry Sand, dry Shale Earth, loam Caliche	0.63-0.88 yd³ 0.88 yd³ 0.88 yd³ 0.88 yd³ 0.63-0.88 yd³	0.5-0.7 m³ 0.7 m³ 0.7 m³ 0.7 m³ 0.5-0.7 m³	0.75 yd³ 0.75 yd³ 0.75 yd³ 0.75 yd³ 0.50-0.75 yd³	0.6 m³ 0.6 m³ 0.6 m³ 0.6 m³ 0.4-0.6 m³
1,780 - 1,170 lb/yd³ (1 050 - 690 kg/m³) Coal Topsoil Peat, wet	1.25 yd³ 1.38 yd³ 1.75 yd³	1.0 m³ 1.1 m³ 1.3 m³	- - -	- - -
950 - 700 lb/yd³ (560 - 420 kg/m³) Cinders Peat, dry Wood chips	2.00 yd³ 2.75 yd³ 3.25 yd³	1.5 m³ 2.1 m³ 2.5 m³	- - -	- - -

* Contact your Hitachi dealer for optimum, bucket and attachment selections. These recommendations are for general conditions and average use. Larger buckets may be possible for flat and level operations, less compacted materials, and volume loading applications such as mass excavation applications in ideal conditions. Smaller buckets are recommended for adverse conditions such as off-level applications and uneven surfaces.

Buckets

Capacity		Width		No. of teeth	Weight	Recommendation EX120		
PCSA heaped	CECE heaped	Without side cutters	With side cutters			6' 11" (2.10 m) arm	8' 3" (2.52 m) arm	9' 11" (3.01 m) arm
0.25 yd³ (0.19 m³)	0.17 m³	18" (450 mm)	22" (550 mm)	3	530 lb (240 kg)	●	●	●
0.39 yd³ (0.30 m³)	0.25 m³	23" (580 mm)	28" (700 mm)	3	620 lb (280 kg)	●	●	●
0.52 yd³ (0.40 m³)	0.33 m³	27" (680 mm)	31" (800 mm)	4	730 lb (330 kg)	●	●	●
0.60 yd³ (0.46 m³)	0.40 m³	33" (850 mm)	38" (970 mm)	5	840 lb (380 kg)	●	●	◆
0.72 yd³ (0.55 m³)	0.45 m³	35" (890 mm)	40" (1 010 mm)	5	880 lb (400 kg)	●	●	◆*
0.77 yd³ (0.59 m³)	0.50 m³	37" (950 mm)	42" (1 070 mm)	5	900 lb (410 kg)	●	◆	-
0.86 yd³ (0.66 m³)	0.55 m³	41" (1 030 mm)	-	5	900 lb (410 kg)	■	-	-
1 0.72 yd³ (0.55 m³)	0.45 m³	35" (890 mm)	40" (1 010 mm)	5	1,010 lb (460 kg)	●	●	◆
2 0.72 yd³ (0.55 m³)	0.45 m³	35" (890 mm)	40" (1 010 mm)	5	1,080 lb (490 kg)	●	●	◆
3 0.72 yd³ (0.55 m³)	0.45 m³	35" (890 mm)	40" (1 010 mm)	5	1,040 lb (470 kg)	●	●	◆
*1 0.77 yd³ (0.59 m³)	0.50 m³	37" (950 mm)	42" (1 070 mm)	5	1,060 lb (480 kg)	●	◆	-
V-Type bucket: 0.46 yd³ (0.35 m³: CECE heaped)				3	820 lb (370 kg)	◆	◆	◆
One point ripper				1	710 lb (320 kg)	✱	✱	-
Clamshell bucket: 0.39 yd³ (0.30 m³: CECE heaped), Width 22" (560 mm)				6	1,520 lb (690 kg)	●	●	-
Slope-finishing blade: Width-39" (1 000 mm), Length-63" (1 600 mm)					950 lb (430 kg)	◆	◆	◆

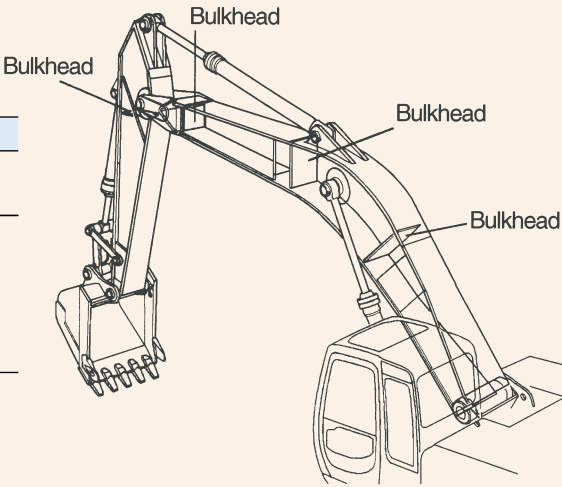
* With 28" (700 mm) shoes only
*1 Reinforced bucket
*2 Level-pin-reinforced bucket
*3 H-bucket

Backhoe Attachments

Boom and arms are of welded, box-section design.

Boom length: 15' 1" (4.60 m)
Arms available in lengths: 6'11" (2.10 m)
8' 3" (2.52 m)
9'11" (3.01 m)

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



Reinforced Front Attachment

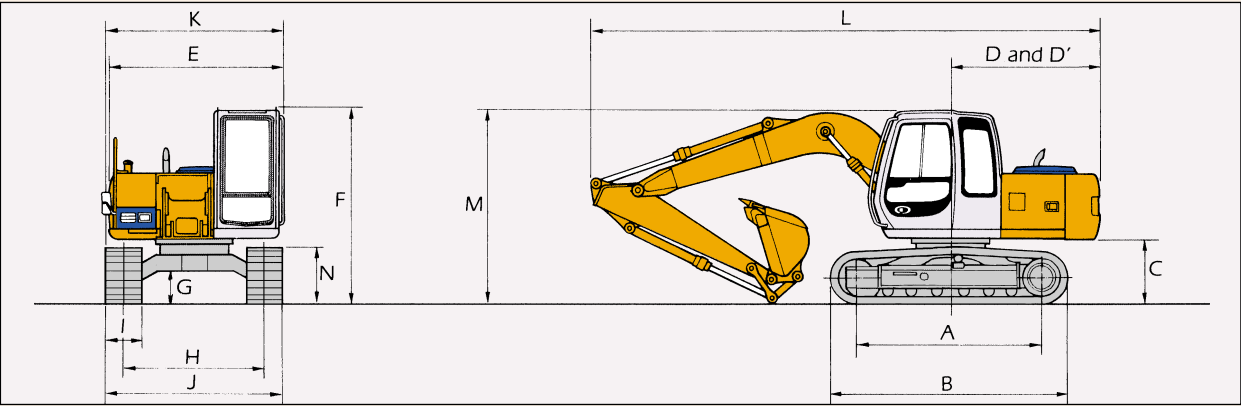
Bulkheads are provided inside the front attachment to resist torsion and thickened plates are used in areas subject to stress concentration for added durability in tough operations.

- Suitable for materials with density of 3,370 lb/yd³ (2 000 kg/m³) or less
- ◆ Suitable for materials with density of 2,700 lb/yd³ (1 600 kg/m³) or less
- Suitable for materials with density of 1,850 lb/yd³ (1 100 kg/m³) or less
- ✱ Heavy-duty service
- ◆ Slope finishing service
- Not recommended

Specifications: EX120

BACKHOE EX120

Dimensions



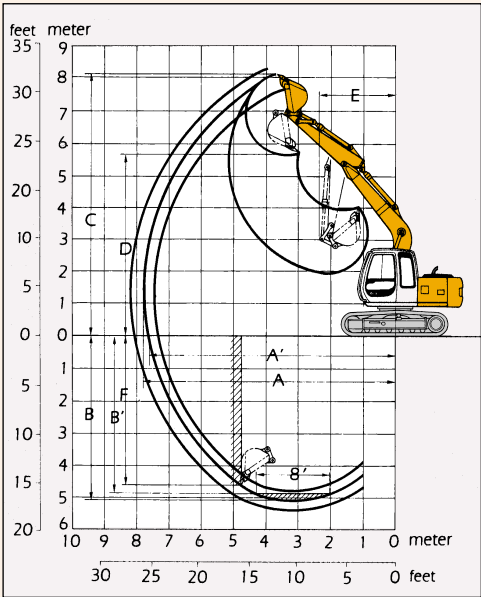
EX120				
A	Distance between tumblers	9'5" (2 880 mm)		
B	Undercarriage length	11'9" (3 580 mm)		
*C	Counterweight clearance	2'11" (890 mm)		
D	Rear-end swing radius	7'0" (2 130 mm)		
D'	Rear-end length	6'11" (2 100 mm)		
E	Overall width of upperstructure	8'1" (2 460 mm)		
F	Overall height of cab	8'11" (2 720 mm)		
*G	Min. ground clearance	1'5" (440 mm)		
H	Track gauge	6'6" (1 990 mm)		
I	Track shoe width	G 20" (500 mm)	G 24" (600 mm)	G 28" (700 mm) F 20" (510 mm)
J	Undercarriage width	8'2" (2 490 mm)	8'6" (2 590 mm)	8'10" (2 690 mm) 8'2" (2 500 mm)
K	Overall width	8'2" (2 500 mm)	8'6" (2 590 mm)	8'10" (2 690 mm) 8'2" (2 500 mm)
L	Overall length			
	With 6'11" (2.10 m) arm	24'10" (7 570 mm)		
	With 8'3" (2.52 m) arm	24'10" (7 580 mm)		
	With 9'11" (3.01 m) arm	24'11" (7 590 mm)		
M	Overall height of boom			
	With 6'11" (2.10 m) arm	8'5" (2 570 mm)		
	With 8'3" (2.52 m) arm	8'10" (2 680 mm)		
	With 9'11" (3.01 m) arm	**8'9" (2 670 mm)		
N	Track height			
	With triple grouser shoes	2'7" (790 mm)		

*Excluding track shoe lug

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

G: Triple grouser shoe
F: Flat shoe

Working Ranges



EX120			
Arm length	6'11" (2.10 m)	8'3" (2.52 m)	9'11" (3.01 m)
A Max. digging reach	25'11" (7 900 mm)	27'2" (8 270 mm)	28'8" (8 740 mm)
A' Max. digging reach (on ground)	25'6" (7 770 mm)	26'8" (8 140 mm)	28'3" (8 620 mm)
B Max. digging depth	16'11" (5 160 mm)	18'3" (5 570 mm)	19'11" (6 060 mm)
B' Max. digging depth (8° level)	16'2" (4 920 mm)	17'7" (5 360 mm)	19'3" (5 880 mm)
C Max. cutting height	27'5" (8 350 mm)	28'1" (8 550 mm)	29'2" (8 880 mm)
D Max. dumping height	19'6" (5 940 mm)	20'2" (6 140 mm)	21'3" (6 470 mm)
E Min. swing radius	7'7" (2 310 mm)	7'8" (2 330 mm)	8'6" (2 590 mm)
F Max. vertical wall	15'3" (4 640 mm)	16'5" (5 010 mm)	18'0" (5 480 mm)

Bucket digging force	ISO	20,100 lbf (9 100 kgf)		
	SAE: PCSA	17,600 lbf (8 000 kgf)		
Arm crowd force	ISO	15,000 lbf (6 800 kgf)	13,400 lbf (6 100 kgf)	11,900 lbf (5 400 kgf)
	SAE: PCSA	14,600 lbf (6 600 kgf)	13,000 lbf (5 900 kgf)	11,700 lbf (5 300 kgf)

Excluding track shoe lug

Lifting Capacities: EX120

EX120

Conditions	Load point height	Load radius												At max. reach		
		6.56 ft (2.0 m)		9.84 ft (3.0 m)		13.12 ft (4.0 m)		16.40 ft (5.0 m)		19.69 ft (6.0 m)		22.97 ft (7.0 m)				ft (m)
Boom: 15.09' (4.60 m)	19.69 ft (6 m)							*4.17 (1.89)	*4.17 (1.89)					*3.06 (1.39)	*3.06 (1.39)	20.05' (6.11)
	16.40 ft (5 m)							5.75 (2.61)	*6.46 (2.93)					*2.91 (1.32)	*2.91 (1.32)	22.28' (6.79)
Arm: 6.89' (2.10 m)	13.12 ft (4 m)					*7.14 (3.24)	*7.14 (3.24)	5.67 (2.57)	*6.94 (3.15)	4.08 (1.85)	*5.97 (2.71)			*2.87 (1.30)	*2.87 (1.30)	23.75' (7.24)
	9.84 ft (3 m)			*11.71 (5.31)	*11.71 (5.31)	7.89 (3.58)	*9.06 (4.11)	5.47 (2.48)	*7.80 (3.54)	3.99 (1.81)	5.97 (2.71)			2.65 (1.20)	*2.89 (1.31)	24.61' (7.50)
Bucket: PCSA: 0.77 yd³ (0.59 m³) CECE: (0.50 m³)	6.56 ft (2 m)					7.41 (3.36)	*11.20 (5.08)	5.22 (2.37)	7.89 (3.58)	3.86 (1.75)	5.84 (2.65)	2.91 (1.32)	*4.19 (1.90)	2.51 (1.14)	*2.98 (1.35)	24.93' (7.60)
	3.28 ft (1 m)					6.99 (3.17)	10.98 (4.98)	4.98 (2.26)	7.65 (3.47)	3.73 (1.69)	5.69 (2.58)	2.84 (1.29)	4.41 (2.00)	2.51 (1.14)	*3.15 (1.43)	24.77' (7.55)
Shoes: 20" (500 mm)	0 ft (Ground)					6.75 (3.06)	10.69 (4.85)	4.81 (2.18)	7.45 (3.38)	3.62 (1.64)	5.58 (2.53)	2.80 (1.27)	4.37 (1.98)	2.60 (1.18)	*3.42 (1.55)	24.08' (7.34)
	-3.28 ft (-1 m)			10.69 (4.85)	*11.88 (5.39)	6.66 (3.02)	10.60 (4.81)	4.72 (2.14)	7.34 (3.33)	3.55 (1.61)	5.51 (2.50)			2.84 (1.29)	*3.84 (1.74)	22.83' (6.96)
	-6.56 ft (-2 m)	*11.44 (5.19)	*11.44 (5.19)	10.76 (4.88)	*16.23 (7.36)	6.66 (3.02)	10.60 (4.81)	4.70 (2.13)	7.34 (3.33)	3.55 (1.61)	5.51 (2.50)			3.33 (1.51)	*4.50 (2.04)	20.87' (6.36)
	-9.84 ft (-3 m)	*13.36 (6.06)	*13.36 (6.06)	10.91 (4.95)	*14.66 (6.65)	6.77 (3.07)	10.71 (4.86)	4.78 (2.17)	7.41 (3.36)					4.32 (1.96)	*2.59 (1.19)	17.91' (5.46)
	-13.12 ft (-4 m)				11.20 (5.08)	*11.24 (5.10)	6.97 (3.16)	*8.93 (4.05)								

Boom: 15.09' (4.60 m)	19.69 ft (6 m)							*4.78 (2.17)	*4.78 (2.17)					*2.56 (1.16)	*2.56 (1.16)	21.56' (6.57)
	16.40 ft (5 m)							*5.56 (2.52)	*5.56 (2.52)	4.17 (1.89)	*4.25 (1.93)			*2.45 (1.11)	*2.45 (1.11)	23.62' (7.20)
Arm: 8.27' (2.52 m)	13.12 ft (4 m)							5.75 (2.61)	*6.04 (2.74)	4.14 (1.88)	*5.53 (2.51)			*2.40 (1.09)	*2.40 (1.09)	25.00' (7.62)
	9.84 ft (3 m)			*7.65 (3.47)	*7.65 (3.47)	*7.45 (3.38)	*7.45 (3.38)	5.53 (2.51)	*7.14 (3.24)	4.03 (1.83)	6.04 (2.74)	3.00 (1.36)	*4.21 (1.91)	2.40 (1.09)	*2.45 (1.11)	25.82' (7.87)
Bucket: PCSA: 0.72 yd³ (0.55 m³) CECE: (0.45 m³)	6.56 ft (2 m)			11.68 (5.30)	*14.29 (6.48)	7.56 (3.43)	*10.23 (4.64)	5.29 (2.40)	7.98 (3.62)	3.88 (1.76)	5.89 (2.67)	2.93 (1.33)	4.50 (2.04)	2.29 (1.04)	*2.54 (1.15)	26.15' (7.97)
	3.28 ft (1 m)					7.10 (3.22)	11.11 (5.04)	5.03 (2.28)	7.69 (3.49)	3.73 (1.69)	5.71 (2.59)	2.84 (1.29)	4.41 (2.00)	2.27 (1.03)	*2.69 (1.22)	25.98' (7.92)
Shoes: 20" (500 mm)	0 ft (Ground)			*8.25 (3.74)	*8.25 (3.74)	6.79 (3.08)	10.76 (4.88)	4.83 (2.19)	7.47 (3.39)	3.62 (1.64)	5.58 (2.53)	2.78 (1.26)	4.34 (1.97)	2.36 (1.07)	*2.93 (1.33)	25.33' (7.72)
	-3.28 ft (-1 m)			10.58 (4.80)	*12.65 (5.74)	6.64 (3.01)	10.58 (4.80)	4.70 (2.13)	7.34 (3.33)	3.53 (1.60)	5.49 (2.49)	2.73 (1.24)	4.30 (1.95)	2.56 (1.16)	*3.31 (1.50)	24.15' (7.36)
	-6.56 ft (-2 m)	*11.13 (5.05)	*11.13 (5.05)	10.63 (4.82)	*17.75 (8.05)	6.59 (2.99)	10.54 (4.78)	4.65 (2.11)	7.28 (3.30)	3.51 (1.59)	5.47 (2.48)			2.93 (1.33)	*3.88 (1.76)	22.31' (6.80)
	-9.84 ft (-3 m)	*15.28 (6.93)	*15.28 (6.93)	10.76 (4.88)	*15.96 (7.24)	6.66 (3.02)	10.60 (4.81)	4.67 (2.12)	7.32 (3.32)	3.55 (1.61)	5.51 (2.50)					
	-13.12 ft (-4 m)				11.00 (4.99)	*13.07 (5.93)	6.81 (3.09)	*10.30 (4.67)	4.83 (2.19)	7.47 (3.39)						

Boom: 15.09' (4.60 m)	19.69 ft (6 m)									*3.26 (1.48)	*3.26 (1.48)			*2.34 (1.06)	*2.34 (1.06)	23.43' (7.14)
	16.40 ft (5 m)									4.34 (1.97)	*4.52 (2.05)			*2.25 (1.02)	*2.25 (1.02)	25.33' (7.72)
Arm: 9.88' (3.01 m)	13.12 ft (4 m)							*4.96 (2.25)	*4.96 (2.25)	4.30 (1.95)	*4.98 (2.26)	3.17 (1.44)	*3.90 (1.77)	*2.23 (1.01)	*2.23 (1.01)	26.61' (8.11)
	9.84 ft (3 m)					*5.36 (2.43)	*5.36 (2.43)	*5.69 (2.58)	*5.69 (2.58)	4.17 (1.89)	*5.60 (2.54)	3.13 (1.42)	4.72 (2.14)	2.23 (1.01)	*2.25 (1.02)	27.36' (8.34)
Bucke:t PCSA: 0.52 yd³ (0.40 m³) CECE: 0.33 m³	6.56 ft (2 m)			*12.04 (5.46)	*12.04 (5.46)	7.83 (3.55)	*9.06 (4.11)	5.45 (2.47)	*7.61 (3.45)	4.01 (1.82)	6.02 (2.73)	3.04 (1.38)	4.61 (2.09)	2.12 (0.96)	*2.31 (1.05)	27.66' (8.43)
	3.28 ft (1 m)					7.30 (3.31)	*11.29 (5.12)	5.16 (2.34)	7.85 (3.56)	3.84 (1.74)	5.82 (2.64)	2.93 (1.33)	4.50 (2.04)	2.09 (0.95)	*2.45 (1.11)	27.53' (8.39)
Shoes: 20" (500 mm)	0 ft (Ground)			*10.58 (4.80)	*10.58 (4.80)	6.88 (3.12)	10.87 (4.93)	4.89 (2.22)	7.56 (3.43)	3.68 (1.67)	5.64 (2.56)	2.84 (1.29)	4.41 (2.00)	2.16 (0.98)	*2.65 (1.20)	26.94' (8.21)
	-3.28 ft (-1 m)			10.49 (4.76)	*12.63 (5.73)	6.66 (3.02)	10.60 (4.81)	4.74 (2.15)	7.36 (3.34)	3.57 (1.62)	5.53 (2.51)	2.78 (1.26)	4.34 (1.97)	2.31 (1.05)	*2.95 (1.34)	25.82' (7.87)
	-6.56 ft (-2 m)	*9.88 (4.48)	*9.88 (4.48)	10.47 (4.75)	*17.20 (7.80)	6.55 (2.97)	10.49 (4.76)	4.65 (2.11)	7.28 (3.30)	3.51 (1.59)	5.47 (2.48)			2.58 (1.17)	*3.40 (1.54)	24.15' (7.36)
	-9.84 ft (-3 m)	*14.99 (6.80)	*14.99 (6.80)	10.56 (4.79)	*17.17 (7.79)	6.57 (2.98)	10.49 (4.76)	4.63 (2.10)	7.28 (3.30)	3.51 (1.59)	5.47 (2.48)			3.11 (1.41)	*4.14 (1.88)	21.75' (6.63)
	-13.12 ft (-4 m)	*19.91 (9.03)	*19.91 (9.03)	10.76 (4.88)	*14.88 (6.75)	6.68 (3.03)	*10.63 (4.82)	4.72 (2.14)	7.36 (3.34)					4.19 (1.90)	*5.60 (2.54)	18.31' (5.58)

- Notes: 1. Ratings are based on SAE J1097.
2. Lifting capacity of the Super EX Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The load point is a hook (not standard equipment) loaded on the back of the bucket.
4. * Indicates load limited by hydraulic capacity.
5. English measurements are rounded based on metric originals.

Specifications: EX120



Standard Equipment

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

ENGINE

- H/P mode control
- E mode control
- 40 A alternator
- Dry-type air filter with evacuator valve (with safety element)
- Cartridge-type engine oil filter
- Cartridge-type engine oil bypass filter
- Cartridge-type fuel filter
- Air cleaner double element
- Radiator and oil cooler with dust protective net
- Radiator reserve tank
- Fan guard
- Isolation-mounted engine
- Auto-idle system

HYDRAULIC SYSTEM

- Work mode selector
- E-P control system
- Quick warm-up system for pilot circuit
- Shockless valve in pilot circuit
- Boom-arm anti-drift valve
- Control valve with main relief valve
- Extra port for control valve
- Suction filter
- Full-flow filter
- Pilot filter

CAB

- All-weather sound-suppressed steel cab
- Reinforced, tinted (bronze color) glass windows
- 6 fluid-filled elastic mounts
- Front windows-upper, and lower and left side windows can be opened
- Intermittent retractable windshield wipers
- Front window washer
- Adjustable reclining suspension seat with adjustable armrests
- Footrest
- Electric double horn
- Auto-tuning AM/FM radio with digital clock
- Auto-idle switch
- Seat belt
- Cigarette lighter
- Ashtray
- Parcel pocket
- Glove compartment
- Floor mat
- Heater
- Pilot control shut-off lever
- Air conditioning
- Hot & Cool box

MONITOR SYSTEM

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

LIGHTS

- 2 working lights

UPPERSTRUCTURE

- Undercover
- 4,960 lb (2 250 kg) counterweight
- Fuel level float
- Hydraulic oil level gauge
- Tool box
- Rearview mirror (right side)
- Swing parking brake

- Travel motion alarm device

UNDERCARRIAGE

- Travel parking brake
- Travel motor covers
- Hydraulic track adjuster
- Bolt-on sprocket
- Upper rollers and lower rollers
- Reinforced track links with pin seals

FRONT ATTACHMENTS

- HN bushing (specified country only)
- Bucket clearance adjust mechanism
- Monolithically cast bucket link A
- Centralized lubrication system
- Dirt seals on all bucket pins
- 8'3" (2.52 m) arm

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.

- Hose rupture valves
- Electric fuel refilling pump
- Swing motion alarm device with lamp
- Additional pump
- Piping kit for extra valve port
- Auto-lubrication system
- Pre-cleaner
- Tropical cover

- Front glass lower guard
- Reinforced undercover for upperstructure
- Track guard
- 0.72 yd³ (0.55 m³: PCSA heaped) Level pin-reinforced bucket
- One-point ripper for ripping hardpan
- Clamshell bucket for deep vertical excavations such as manholes, pilings, footings, etc.

HITACHI

The *Best* You Can Buy

-
- Manufacturing Plant
 - Sales Office
 - Parts/Distribution Facility
 - Dealership Facilities

Hitachi of North America

■ Hitachi excavators, mini excavators, mining shovels, cranes and forestry machines are the best you can buy. Our commitment to superior product support is equally outstanding.

- 37 Dealers
- 194 Dealer Facilities
- Parts Warehouses
 - Houston, Texas
 - Vancouver, B.C.

- Manufacturing Plants
 - Tsuchiura, Japan
 - Tierra, Japan
 - Kernersville, North Carolina
 - Langley, B.C.
 - Saltillo, Mexico