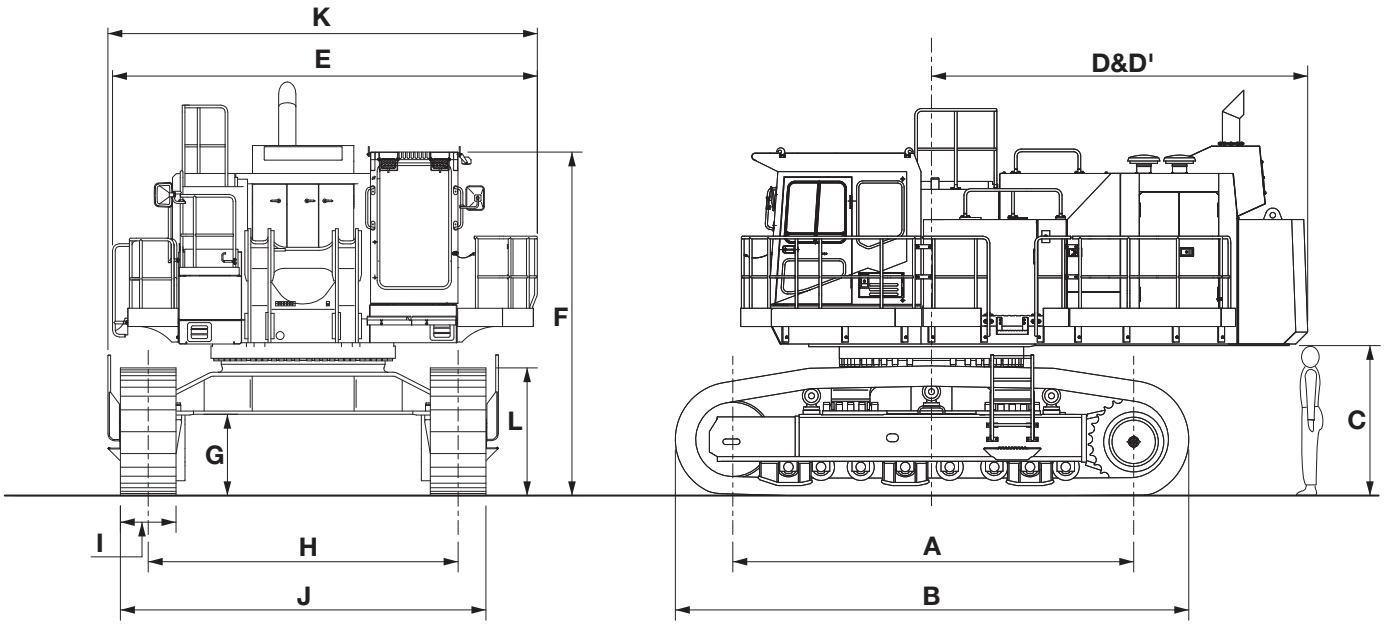
HITACHI

Reliable solutions

# EX1200
## Specifications




| | | | | |
|---|---|---|---|---|
| A | Distance between tumblers | | 5 090 mm | |
| B | Undercarriage length | | 6 500 mm | |
| C | Counterweight clearance | | 1 820 mm | |
| D | Rear-end swing radius | | 4 850 mm | |
| D' | Rear-end length | | 4 740 mm | |
| E | Overall width of upperstructure | | 5 380 mm | |
| F | Overall height of cab | Backhoe | 4 350 mm | |
| | | Loading shovel | 5 440 mm | |
| G | Min. ground clearance | | 1 020 mm | |
| H | Track gauge | | 3 900 mm | |
| I | Track shoe width | | 700 mm | 900 mm |
| J | Undercarriage width | | 4 600 mm | 4 800 mm |
| K | Overall width | | 5 430 mm | |
| L | Track height | | 1 660 mm | |

## HYDRAULIC EXCAVATOR

| | | |
|---|---|---|
| **Model Code** | **: EX1200-6** | |
| **Engine Gross Power** | **: 567 kW (760 HP)** | |
| **Operating Weight** | **: Backhoe** | **:111 000 kg** |
| | **BE-front** | **:112 000 kg** |
| | **Loading Shovel** | **:114 000 kg** |
| **Backhoe Bucket** | **: SAE, PCSA Heaped** | **: 5.2 - 6.7 m³** |
| | **CECE Heaped** | **: 4.6 - 5.9 m³** |
| **Loading Shovel Bucket** | **: Heaped** | **: 5.9 - 6.5 m³** |

# SPECIFICATIONS

**EX1200-6**

## ENGINE

Model ..... Cummins QSK23-C
Type ..... Water-cooled, 4-cycle, 6-cylinder in line, turbo-charged direct injection chamber-type diesel engine.
Emission Certification ..... U.S.EPA Tier2
Rated power
SAE J1995, gross ..... 567 kW (760 HP) at 1 800 min$^{-1}$ (rpm)
Net ..... 552 kW (740 HP) at 1 800 min$^{-1}$ (rpm)
Maximum torque ..... 3 468 N·m (354 kgf·m) at 1 350 min$^{-1}$ (rpm)
Piston displacement ..... 23.15 L
Bore and stroke ..... 170 mm x 170 mm
Starting system ..... 24 V electric motor
Batteries ..... 2 x 12 V , 2 x 220 AH

## HYDRAULIC SYSTEM

Hitachi's ETS (Electronic Total control System) can achieve maximum job efficiency by reducing fuel consumption and noise levels, while maximizing productivity through the optimization of engine-pump functions with excellent controllability increasing operator comfort.

- E-P Control (Computer-aided Engine-Pump Control system) Main pumps regulated by electric engine speed sensing control system. Optimum operation mode selectable among 3 power modes depending on type of job.
- OHS (Optimum Hydraulic System) assures fully independent and combined operations.
- FPS (Fuel-saving Pump System)
- Auto-idling system
- High-pressure 2-speed travel system for high traction force and travel speed.
- Forced-cooling pump drive system
- TIG (Tungsten Insert Gas) welding pipings

Main pumps ..... 3 variable-displacement, swash plate type axial piston pumps
Max.oil flow ..... 3 X 520 L/min
Pilot pump ..... Gear pump
Max.oil flow ..... 56.0 L/min

### Relief Valve Settings

Boom/arm/bucket circuit ..... 31.9 MPa (325 kgf/cm$^2$)
Travel circuit ..... 34.3 MPa (350 kgf/cm$^2$)
Swing circuit ..... 27.4 MPa (280 kgf/cm$^2$)
Pilot circuit ..... 3.9 MPa ( 40 kgf/cm$^2$)

### Hydraulic Cylinders

High-strength piston rods and tubes adopted. Cylinder cushion mechanisms are provided for boom, arm, bucket and dump cylinders.

### Cylinder Dimensions
### Loading shovel

| | Quan. | Bore | Rod diameter |
|---|---|---|---|
| Boom | 2 | 230 mm | 160 mm |
| Arm | 1 | 215 mm | 150 mm |
| Bucket | 2 | 200 mm | 150 mm |
| Dump | 2 | 140 mm | 85 mm |
| Level | 1 | 230 mm | 160 mm |

### Backhoe

| | Quan. | Bore | Rod diameter |
|---|---|---|---|
| Boom | 2 | 230 mm | 160 mm |
| Arm | 1 | 260 mm | 180 mm |
| Bucket (for 3.6 m arm) | 1 | 230 mm | 160 mm |
| Bucket (for 3.4 m BE-arm) | 1 | 240 mm | 170 mm |

### Hydraulic Filters

All hydraulic circuits have high-quality hydraulic filters for protection against oil contamination and longer life of hydraulic components.

| | Qty. | |
|---|---|---|
| Full flow filter | 2 | 30 µm |
| Drain filter | 1 | 10 µm |
| (For all plunger type pumps & motors) | | |
| Suction filter | 2 | 177 µm |
| Pilot filter | 1 | 10 µm |
| Line filter (Delivery filter) | 3 | 95 µm |

These filters are centralized in arrangement for facilitating maintenance.

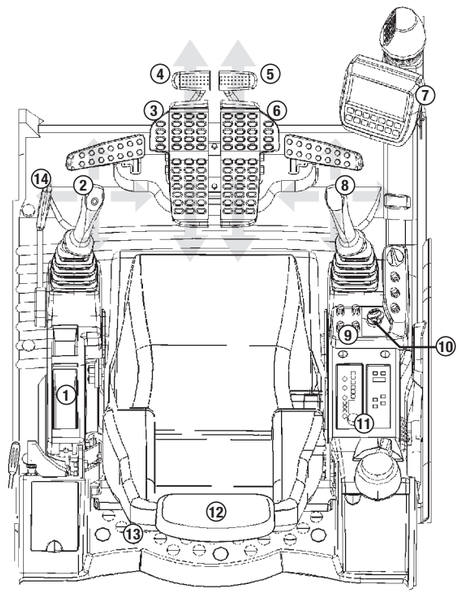
## CONTROLS

### 2 Implement Levers

Remote-controlled joystick hydraulic servo system. Right lever is for boom and bucket control, left lever for swing and arm control. For loading shovel, 2 pedals provided for opening/closing the bottom dump bucket.

### 2 Travel Levers with Pedals

Remote-controlled hydraulic servo system. Independent drive at each track allows counter rotation of tracks.



① Left Console
② Left Control Lever/Horn Switch
③ Left Travel Pedal
④ Left Travel Lever
⑤ Right Travel Lever
⑥ Right Travel Pedal
⑦ Multi Function Monitor Panel
⑧ Right Control Lever
⑨ Switch Panel
⑩ Key Switch
⑪ Right Console
⑫ Operator's Seat
⑬ Glove Compartment
⑭ Pilot Control Shut-Off Lever

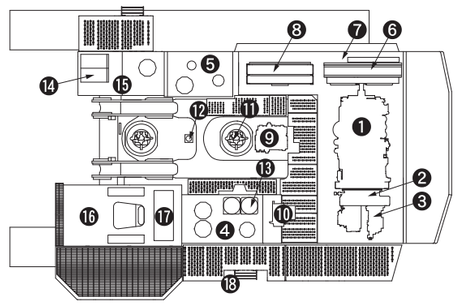
## UPPERSTRUCTURE

### Revolving Frame

A deep, full-reinforced box section. Heavy-gauge steel plates used for ruggedness.

### Deck Machinery

Maintenance accessibility is the major feature in the lay-out of deck machinery. Sidewalks provide easy access to engine, hydraulic and electrical components.



① Engine
② Pump Drive Unit
③ Hydraulic Pump x 3
④ Hydraulic Oil Tank
⑤ Fuel Tank
⑥ Engine Radiator
⑦ Engine Air Cooler
⑧ Oil Cooler
⑨ Main Control Valve
⑩ Swing Control Valve
⑪ Swing Device x 2
⑫ Center Joint
⑬ Filters
⑭ Batteries
⑮ Batteries and Lubricator Box
⑯ Operator Cab
⑰ Air-Conditioning Unit
⑱ Slide Ladder (Optional)

### Swing Device

2 high-torque, axial-piston motors with planetary reduction gear bathed in oil. Swing circle is single-row, shear-type ball bearing with induction-hardened internal gear. Internal gear and pinion gear immersed in lubricant. Swing parking brake is spring-set, hydraulic-released disc type.

Swing speed ..... 5.2 min$^{-1}$ (rpm)

### Operator's Cab

The sturdy cab, with OPG top guard Level II(ISO), helps protect the operator from falling objects. Independent, pressurized, 1 100 mm wide, 1 900 mm high, roomy 3.46 m$^3$ cab with tinted-glass windows features all-round visibility. Spring-suspension-type, fully-adjustable reclining seat with armrests; movable with or without front and swing control levers by slide. Instruments and control panel are within easy reach of the operator.
Powerful fresh air ventilation type air conditioner. Cool-and-hot box and rotatable blower louvers also serve as defrosters. Thus, rapid air-conditioning can be achieved for operator comfort.
Fluid-filled elastic-mounting and sound-proofing structure to reduce noise level and vibration.

Noise level..... 75 dB(A) in the cab; on max. engine speed under no-load condition.
Eye level height
Backhoe..... 3 650 mm
Loading Shovel ..... 4 730 mm

## UNDERCARRIAGE

### Tracks

Tractor-type undercarriage. Bolt linkage for side frame assures durability. Heavy-duty track frame of all-welded, stress-relieved structure. Top-grade materials used for toughness. Lifetime-lubricated induction-hardened track rollers, idlers and sprockets with floating seals. Track shoes of rolled alloy with double grousers. Durable strut reinforced track links with track guards. Hydraulic (grease) track adjusters with shock absorbing recoil springs.

### Tractor-type Undercarriage

Double grouser track shoes of induction-hardened rolled alloy.
Shoe width ..... 700 mm standard
900 mm optional for Backhoe attachment only

### Numbers of Rollers and Shoes on Each Side

Upper rollers ..... 3
Lower rollers ..... 8
Track shoes ..... 49

### Travel Device

Each track driven by a high-torque, axial piston motor through planetary reduction gears, allowing counter rotation of the tracks. Easily replaceable sprockets. Parking brake of spring-set, hydraulic-released disc type.

Travel speeds ..... High : 0 to 3.5 km/h
Low : 0 to 2.4 km/h
Maximum traction force ..... 707 kN (72 100 kgf)
Gradeability ..... 70 % (35 degree) max.

## WEIGHTS AND GROUND PRESSURE

### Backhoe

EX1200-6: Equipped with 9.0 m boom, 3.6 m arm, and 5.2 m$^3$ (SAE, PCSA heaped) bucket

| Shoe type | Shoe width | Operating weight | Ground pressure |
|---|---|---|---|
| Double grousers | 700 mm | 111 000 kg | 142 kPa (1.45 kgf/cm$^2$) |
| | 900 mm | 113 000 kg | 112 kPa (1.14 kgf/cm$^2$) |

EX1200-6 BE-front: Equipped with 7.55 m BE-boom, 3.4 m BE-arm, and 6.7 m$^3$ (SAE, PCSA heaped) bucket

| Shoe type | Shoe width | Operating weight | Ground pressure |
|---|---|---|---|
| Double grousers | 700 mm | 112 000 kg | 143 kPa (1.46 kgf/cm$^2$) |
| | 900 mm | 114 000 kg | 113 kPa (1.15 kgf/cm$^2$) |

### Loading Shovel

Equipped with 6.5 m$^3$ (Heaped) bottom dump bucke

| Shoe type | Shoe width | Operating weight | Ground pressure |
|---|---|---|---|
| Double grousers | 700 mm | 114 000 kg | 146 kPa (1.49 kgf/cm$^2$) |

## SERVICE REFILL CAPACITIES

| | |
|---|---|
| Fuel tank | 1 470 L |
| Engine coolant | 139 L |
| Engine oil | 70 L |
| Pump drive | 15 L |
| Swing device (each side) | 25 L |
| Travel final device (each side) | 43 L |
| Hydraulic system | 1 350 L |
| Hydraulic oil tank | 610 L |

# SPECIFICATIONS

## BACKHOE ATTACHMENTS

Boom and arm are all-welded, low-stress, full-box section design.
Bucket of all-welded high-strength steel structure, side clearance adjust mechanism is provided on the bucket joint brackets.

- Two-points support-type boom cylinder pin linkage
- Double lip pin seals (in all portions) plus O-ring at arm top and link A
- Super-V bucket teeth
- Flexible pin at the arm top and link A for bucket linkage.

**BE (Bulk Excavation) front**

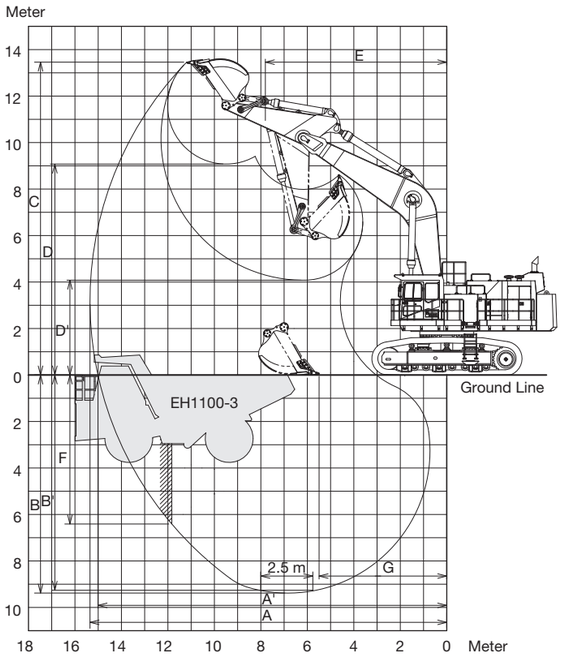
BE-front: The EX1200-6 BE-front is designed and manufactured as a production-oriented machine. Its features include a short arm and boom, large-capacity bucket, large-digging force and superb digging / loading capability.

### Bucket

| Capacity | | Width | | No. of teeth | Weight | Type | Materials density | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | BE-front | 9.0 m boom |
| SAE, PCSA heaped | CECE heaped | Without shroud | With shroud | | | | 7.55 m BE-boom 3.4 m BE-arm | 3.6 m arm |
| 5.2 $m^3$ | 4.6 $m^3$ | 1 940 mm | 2 120 mm | 5 | 4 910 kg | ◎ | – | 1 800 kg/$m^3$ or less |
| 5.2 $m^3$ | 4.6 $m^3$ | 1 900 mm | 2 000 mm | 5 | 5 930 kg | ● | – | 1 800 kg/$m^3$ or less |
| 5.8 $m^3$ | 5.1 $m^3$ | 2 120 mm | 2 220 mm | 5 | 6 930 kg | ● | 1 800 kg/$m^3$ or less | – |
| 6.7 $m^3$ | 5.9 $m^3$ | 2 300 mm | 2 400 mm | 5 | 6 650 kg | ◎ | 1 800 kg/$m^3$ or less | – |

●:Rock bucket ◎:General purpose bucket – :Not applicable

## WORKING RANGES




Unit: mm

| Boom length | | 7.55 m BE-boom | 9.0 m |
|---|---|---|---|
| Arm length | | 3.4 m BE-arm | 3.6 m |
| A | Max. digging reach | 13 750 | 15 350 |
| A' | Max. digging reach (on ground) | 13 360 | 15 010 |
| B | Max. digging depth | 8 050 | 9 380 |
| B' | Max. digging depth (2.5m level) | 7 920 | 9 260 |
| C | Max. cutting height | 12 410 | 13 460 |
| D | Max. dumping height | 8 050 | 9 080 |
| D' | Min. dumping height | 3 330 | 4 160 |
| E | Min. swing radius | 6 770 | 7 740 |
| F | Max. vertical wall | 5 180 | 6 450 |
| G | Min. level crowding distance | 4 130 | 5 790 |
| Bucket digging force | ISO | 569 kN 58 000 kgf | 482 kN 49 200 kgf |
| | SAE: PCSA | 512 kN 52 200 kgf | 440 kN 44 900 kgf |
| Arm crowd force | ISO | 438 kN 44 700 kgf | 430 kN 43 900 kgf |
| | SAE: PCSA | 425 kN 43 400 kgf | 422 kN 43 000 kgf |

## LOADING SHOVEL ATTACHMENTS

Boom and arm are all-welded, low-stress, high-tensile strength steel full-box section design. Efficient, automatic level crowding achieved by one-lever control as the parallel link mechanism keeps the bucket digging angle constant, and level cylinder circuit maintains the bucket height constant (Auto-Leveling Crowd Mechanism).

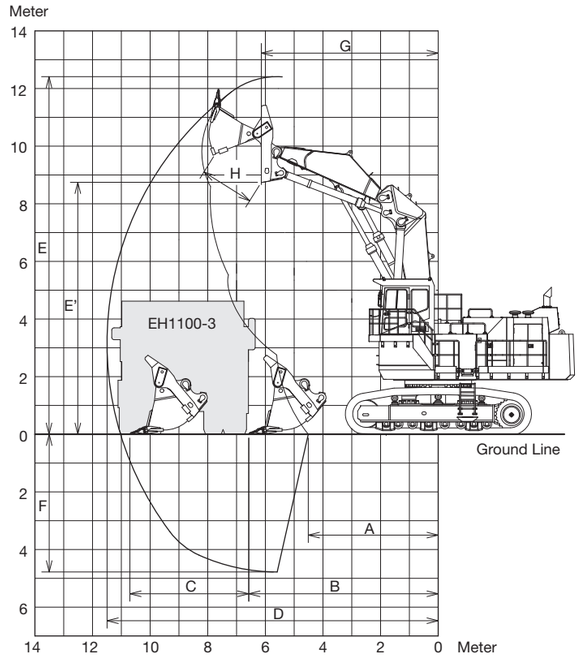
- Dual-support-type boom/arm/bucket pin linkage
- Double lip pin seals plus O-ring at arm top

### Bucket

| Capacity (heaped) | Width | No.of teeth | Weight | Type | Materials density |
|---|---|---|---|---|---|
| 5.9 $m^3$ | 2 510 mm | 6 | 10 000 kg | ● | 1 800 kg/$m^3$ or less |
| 6.5 $m^3$ | 2 700 mm | 6 | 9 390 kg | ◎ | 1 800 kg/$m^3$ or less |

●:Bottom dump type rock bucket
◎:Bottom dump type general purpose bucket

## WORKING RANGES




Unit: mm

| Bucket capacity (heaped) | | 6.5 $m^3$ |
|---|---|---|
| A | Min. digging distance | 4 510 |
| B | Min. level crowding distance | 6 580 |
| C | Level crowding distance | 4 370 |
| D | Max. digging reach | 11 500 |
| E | Max. cutting height | 12 410 |
| E' | Max. dumping height | 8 750 |
| F | Max. digging depth | 4 780 |
| G | Working radius at max. dumping height | 6 140 |
| H | Max. bucket opening width | 1 880 |
| Arm crowding force on ground | | 585 kN (59 700 kgf) |
| Bucket digging force | | 709 kN (72 300 kgf) |

# EQUIPMENT

## STANDARD EQUIPMENT

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

### ENGINE
- Auto-idle system
- Cartridge-type engine oil filter
- Cartridge-type fuel filter
- Dry-type air filter with clean dust cup
- E mode control
- Fan guard
- H/P mode control
- Isolation-mounted engine
- Overheat prevention device
- P mode control
- Radiator, air cooler and oil cooler with dust protective net
- Radiator reserve tank
- Water filter
- 75 A alternator

### HYDRAULIC SYSTEM
- Boom mode selector system
- Control valve with main relief valve
- Engine speed sensing system
- E-P control system
- Forced-lubrication and forced cooling pump drive system
- FPS (Fuel-saving Pump System)
- Full-flow filter
- Heavy lifting system
- Line filter (Delivery filter)
- OHS (Optimum Hydraulic System)
- Pilot filter
- Pump drain filter
- Swing/boom priority mode system
- Suction filter

### CAB
- Adjustable armrests
- Adjustable reclining seat
- All-weather sound-suppressed steel integrated cab
- Ashtray
- Auto air conditioner with defroster
- Auto-idle switch
- Auto-tuning AM-FM radio
- Cigarette lighter
- Digital clock
- Electrical horn
- Engine control dial
- Evacuation hammer
- Floor mat
- Footrest
- Glove compartment
- Hot and cool box
- Intermittent wiper interlocked with front windshield washer
- Laminated glass windshield
- LED room lamp
- OPG top guard level II (ISO)
- Parcel pocket
- Pilot control shut-off lever
- Reinforced/tinted (green color) glass side and rear windows
- Seat belt

### MONITOR SYSTEMS
- Meters:
  Auto-idle
  Engine coolant temperature gauge
  Fuel gauge
  Hour meter
  Indicator
  Lubrication mode indicator
- Warning indicators:
  Air-filter restriction
  Alternator
  Auto lubrication
  Engine oil level
  Engine oil pressure
  Engine stop
  Engine warning
  Fuel level
  Hydraulic oil level
  Over heat
  Preheat
  Pump transmission oil pressure
  Radiator water level

### DATA LOGGING SYSTEM
- DLU (Data-logging unit) continuously records performance of the engine and the hydraulic system. The record can be down-loaded by PC.

### LIGHTS
- 1 step light
- 2 cab lights
- 2 counterweight lights
- 2 working lights

### UPPERSTRUCTURE
- Centralized lubrication system for swing bearing
- Control valves with main relief valves and port relief valves
- Electric grease gun with hose reel
- Rear view camera
- Slow return orifices and make up valves for cylinder circuits
- Undercover
- 17 500 kg counterweight

### UNDERCARRIAGE
- Hydraulic (grease) track adjuster with shock absorbing recoils spring
- Track and idler guards
- Travel motor cover
- Spring-set/hydraulic-released disc type parking brake
- 700 mm shoe

### MISCELLANEOUS
- Auto-lubrication system for front-attachment (except bucket arm joint part)
- Elevated cab (for Loading Shovel)
- ISO conforming stairs and handrails
- Slip resistance tapes
- Wide side walk
- 12 V power terminal board

## OPTIONAL EQUIPMENT

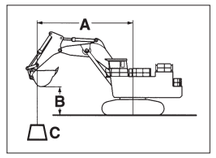
Optional equipment may vary by country, so please consult your Hitachi dealer for details.

- Air-suspension seat
- Cold weather package*
- Communication system**
  GPRS communication system
  Sateliltedata transmitting system
- Electric fuel refilling pump device
- Fuel refilling piping
- Front window scatter-preventing film
- Full track guard
- Heater seat
- High cab kit (for Backhoe)
- Highland application*
- Large sized air cleaner
- Pre-cleaner
- Standard tool kit
- Slide ladder
- Sun visor
- Theft deterrent system
- Travel motion alarm device
- 2 high brightness working lights
- 900 mm shoe

*: Engineered on request
**: The availability of the system depends on licensing regulations in each country. Please contact Hitachi dealer for more information.



# LIFTING CAPACITIES




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

METRIC MEASURE

Rating over-side or 360 degrees  Rating over-front  Unit: 1 000 kg

| Conditions | Load point height | Load radius 2 m | | 4 m | | 6 m | | 8 m | | 10 m | | At max. reach | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | meter |
| EX1200-6 BE<br>BE-boom 7.55 m<br>BE-arm 3.4 m<br>Bucket<br>SAE, PCSA : 6.7 m³<br>Shoes 700 mm | 8 m | | | | | | | | | *16.7 | *16.7 | *6.74 | *6.74 | 12.6 |
| | | | | | | | | | | *18.1 | *18.1 | *7.75 | *7.75 | |
| | 6 m | | | | | | | | | *18.3 | *18.3 | *6.82 | *6.82 | 13.1 |
| | | | | | | | | | | 18.8 | *20.5 | *7.84 | *7.84 | |
| | 4 m | | | | | | | *25.0 | *25.0 | 17.8 | *19.8 | *7.24 | *7.24 | 13.3 |
| | | | | | | | | 27.1 | *27.9 | 17.8 | *22.3 | *8.29 | *8.29 | |
| | 2 m | | | | | | | 24.9 | *28.7 | 16.6 | *21.5 | *8.05 | *8.05 | 13.0 |
| | | | | | | | | 24.9 | *32.0 | 16.6 | 22.6 | *9.17 | *9.17 | |
| | 0 (Ground) | | | | | | | 23.4 | *30.5 | 15.8 | 21.7 | *9.44 | *9.44 | 12.4 |
| | | | | | | | | 23.4 | 32.1 | 15.8 | 21.7 | 10.4 | *10.7 | |
| | -2 m | | | | | 37.9 | *41.0 | 22.7 | *29.7 | 15.3 | 21.2 | | | |
| | | | | | | 37.9 | *45.7 | 22.7 | 31.4 | 15.3 | 21.2 | | | |
| | -4 m | | | *42.2 | *42.2 | *34.7 | *34.7 | 22.8 | *25.8 | 15.6 | *17.5 | | | |
| | | | | *47.2 | *47.2 | 38.3 | *38.9 | 22.8 | *29.0 | 15.6 | *19.9 | | | |
| | -6 m | | | | | *23.3 | *23.3 | *15.8 | *15.8 | | | | | |
| | | | | | | *26.4 | *26.4 | *18.2 | *18.2 | | | | | |

| Conditions | Load point height | Load radius 2 m | | 4 m | | 6 m | | 8 m | | 10 m | | 12 m | | At max. reach | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | meter |
| EX1200-6 STD<br>Boom 9.0 m<br>Arm 3.6 m<br>Bucket<br>SAE, PCSA : 5.2 m³<br>Shoes 700 mm | 10 m | | | | | | | | | | | | | *10.1 | *10.1 | 13.5 |
| | | | | | | | | | | | | | | 11.0 | *11.2 | |
| | 8 m | | | | | | | | | | | 13.7 | *13.9 | 9.18 | *9.93 | 14.4 |
| | | | | | | | | | | | | 13.7 | *15.8 | 9.18 | *11.1 | |
| | 6 m | | | | | | | | | *16.2 | *16.2 | 13.2 | *14.3 | 8.13 | *10.1 | 14.8 |
| | | | | | | | | | | *18.3 | *18.3 | 13.2 | *16.3 | 8.13 | *11.3 | |
| | 4 m | | | | | | | *24.3 | *24.3 | 17.8 | *18.3 | 12.5 | *15.3 | 7.64 | *10.6 | 14.9 |
| | | | | | | | | 25.9 | *27.2 | 17.8 | *20.7 | 12.5 | 17.0 | 7.64 | 10.9 | |
| | 2 m | | | | | | | 23.5 | *28.0 | 16.4 | *20.4 | 11.7 | 16.2 | 7.63 | 10.9 | 14.7 |
| | | | | | | | | 23.5 | *31.4 | 16.4 | 22.3 | 11.7 | 16.2 | 7.63 | 10.9 | |
| | 0 (Ground) | | | | | | | 22.2 | *29.7 | 15.4 | 21.3 | 11.1 | 15.5 | 8.17 | 11.6 | 14.2 |
| | | | | | | | | 22.2 | 30.7 | 15.4 | 21.3 | 11.1 | 15.5 | 8.17 | 11.6 | |
| | -2 m | | | | | | | 21.7 | *29.3 | 14.9 | 20.7 | 10.8 | 15.2 | 9.48 | *12.8 | 13.2 |
| | | | | | | | | 21.7 | 30.3 | 14.9 | 20.7 | 10.8 | 15.2 | 9.48 | 13.3 | |
| | -4 m | | | *21.7 | *21.7 | *35.2 | *35.2 | 21.8 | *27.3 | 14.9 | 20.7 | 11.0 | *15.2 | | | |
| | | | | *24.0 | *24.0 | 36.8 | *39.4 | 21.8 | 30.4 | 14.9 | 20.7 | 11.0 | 15.4 | | | |
| | -6 m | | | | | *29.4 | *29.4 | 22.5 | *23.1 | 15.4 | *17.0 | | | | | |
| | | | | | | *33.1 | *33.1 | 22.5 | *26.1 | 15.4 | *19.4 | | | | | |

With heavy lifting system

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% 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.

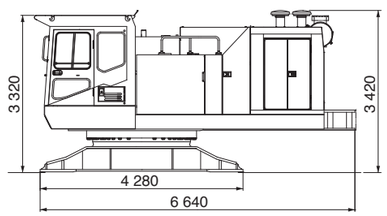
# TRANSPORTATION

- Easily assembled owing to local assembling system requiring no welding

## UPPERSTRUCTURE

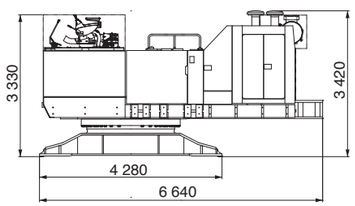
Unit: mm

**Upperstructure for backhoe**
Weight : 36 200 kg



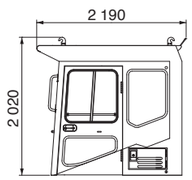

Width : 3 500

**Upperstructure for loading shovel**
Weight : 36 200 kg



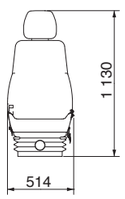

Width : 3 500

**Cab assy for loading shovel**
Weight : 640 kg



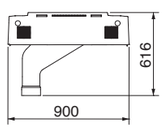

Width : 1 210

**Seat assy for loading shovel**
Weight : 45 kg



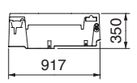

Width : 700

**Upper duct assy for loading shovel**
Weight : 4 kg



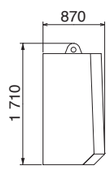

Width : 192

**Lower duct assy for loading shovel**
Weight : 3 kg




Width : 405

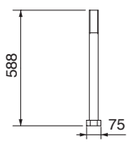
**Counterweight**
Weight : 17 500 kg




Width : 3 450

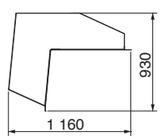
**Washers for counterweight**
Weight : 2 kg x 8


**Bolts for counterweight**
Weight : 8 kg x 8



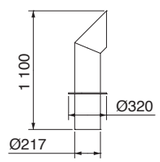

Width : 65

**Mufler cover**
Weight : 107 kg

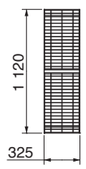



Width : 1 390

**Exhaust pipe**
Weight : 15 kg

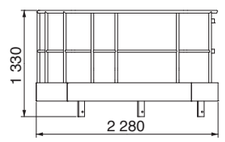



**Side step**
Weight : 19 kg



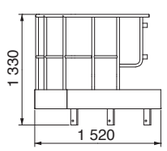

Width : 110

**Side walk for backhoe**
Weight : 202 kg



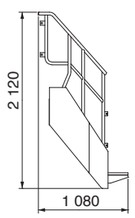

Width : 1 010

**Side walk for loading shovel**
Weight : 150 kg



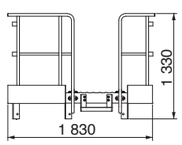

Width : 1 010

**Step for loading shovel**
Weight : 134 kg



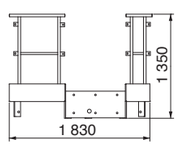

Width : 1 010

**Side walk**
Weight : 117 kg



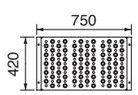

Width : 650

**Side walk for optional slide ladder**
Weight : 180 kg




Width : 662

**Step for optional slide ladder**
Weight : 17 kg



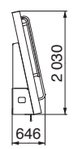

Width : 169



## UPPERSTRUCTURE

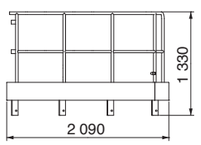
Unit: mm

**Slide ladder (optional)**
Weight : 253 kg



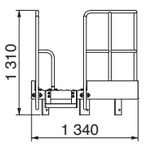

Width : 650

**Side walk**
Weight : 124 kg



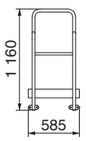

Width : 720

**Side walk**
Weight : 118 kg



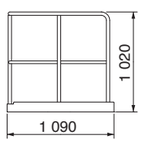

Width : 834

**Handrail**
Weight : 14 kg



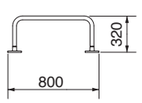

Width : 192

**Handrail**
Weight : 23 kg



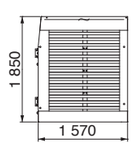

Width : 587

**Handrail**
Weight : 5 kg



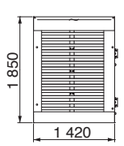

Width : 50

**Radiator cover**
Weight : 89 kg




Width : 80

**Oil cooler cover**
Weight : 83 kg

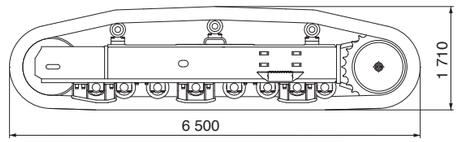



Width : 80

## UNDERCARRIAGE

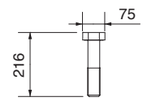
Unit: mm

**Side frame**
Weight : 15 200 kg x 2 (with 700 mm shoe)
15 900 kg x 2 (with 900 mm shoe)



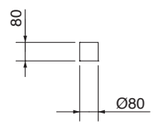

Width : 1 010 (with 700 mm shoe)
1 010 (with 900 mm shoe)

**Bolts**
Weight : 3 kg x 52

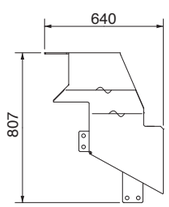



Width : 65

**Spacers**
Weight : 3 kg x 52

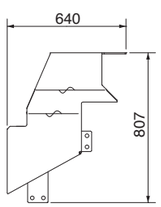



**Travel device cover (R)**
Weight : 25 kg



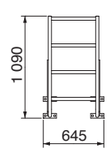

Width : 258

**Travel device cover (L)**
Weight : 25 kg




Width : 258

**Ladder**
Weight : 23 kg (for 700 mm shoe) x 2
28 kg (for 900 mm shoe) x 2



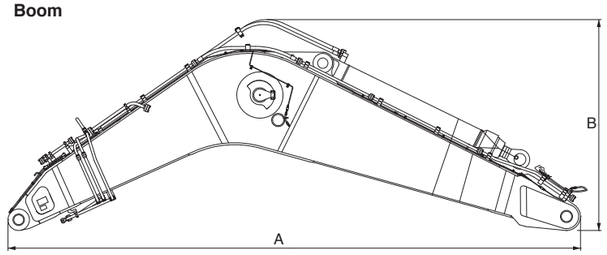

Width : 157 (for 700 mm shoe)
307 (for 900 mm shoe)

# TRANSPORTATION

## BACKHOE ATTACHMENT

Unit: mm

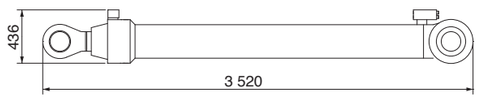
**Boom**




| | Boom length | A | B | Width | Weight |
|---|---|---|---|---|---|
| EX1200-6 | 9.0 m | 9 410 mm | 3 460 mm | 1 590 mm | 12 300 kg |
| EX1200-6 BE | 7.55 m | 7 960 mm | 3 430 mm | 1 580 mm | 11 600 kg |

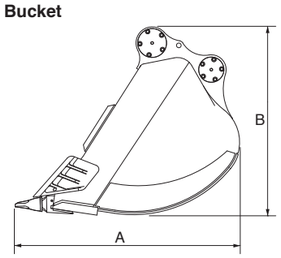
**Boom cylinders**

Weight : 1 130 kg x 2




Width : 356

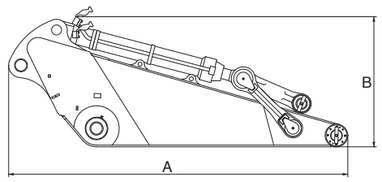
**Bucket**




| Capacity | | A | B | Width | Weight | Type |
|---|---|---|---|---|---|---|
| SAE, PCSA heaped | CECE heaped | | | | | |
| 5.2 m³ | 4.6 m³ | 2 660 mm | 2 210 mm | 2 120 mm | 4 910 kg | ◎ |
| 5.2 m³ | 4.6 m³ | 2 660 mm | 2 210 mm | 2 000 mm | 5 930 kg | ● |
| 5.8 m³ | 5.1 m³ | 2 590 mm | 2 240 mm | 2 220 mm | 6 930 kg | ● |
| 6.7 m³ | 5.9 m³ | 2 820 mm | 2 220 mm | 2 400 mm | 6 650 kg | ◎ |

●:Rock bucket ◎:General purpose bucket

**Arm**

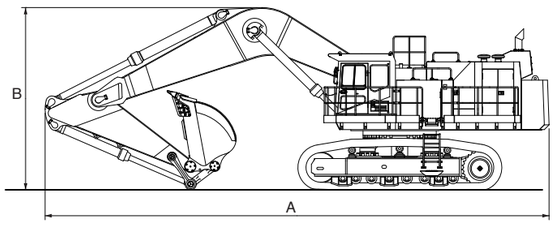



| | Arm length | A | B | Width | Weight |
|---|---|---|---|---|---|
| EX1200-6 | 3.6 m | 5 090 mm | 1 950 mm | 1 020 mm | 6 130 kg |
| EX1200-6 BE | 3.4 m | 4 950 mm | 1 980 mm | 990 mm | 6 540 kg |

## OVERALL

Unit: mm

**BACKHOE**



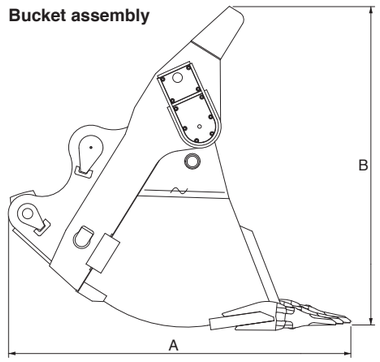

| | Boom length | Arm length | A | B | Width | Weight |
|---|---|---|---|---|---|---|
| EX1200-6 | 9.0 m | 3.6 m | 15 970 mm | 5 770 mm | 5 430 m | 111 000 kg |
| EX1200-6 BE | 7.55 m | 3.4 m | 14 580 mm | 5 970 mm | 5 430 m | 112 000 kg |



## LOADER ATTACHMENT

Unit: mm

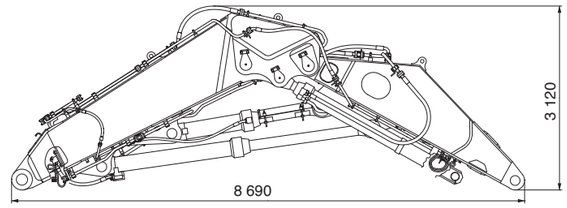
**Bucket assembly**




| Bucket capacity | A | B | Max. Width | Weight |
|---|---|---|---|---|
| 5.9 m³ | 2 770 mm | 2 480 mm | 2 690 mm | 10 000 kg |
| 6.5 m³ | 2 770 mm | 2 680 mm | 2 890 mm | 9 390 kg |

**Boom & arm assembly**

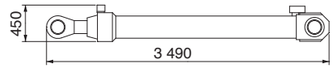
Weight : 15 500 kg




Width : 1 830

**Boom cylinders**

Weight : 1 170 kg x2




Width : 536

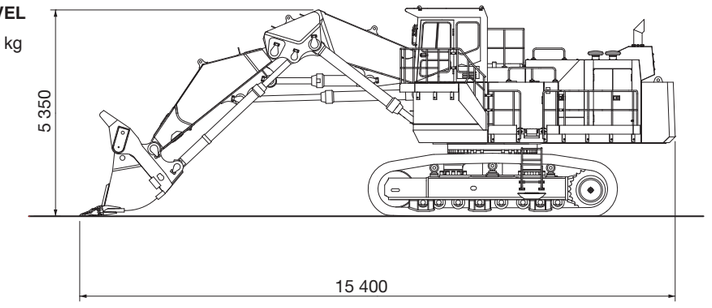
## OVERALL

Unit: mm

**LOADING SHOVEL**

Weight : 114 000 kg

Width : 5 430



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.
Before use, read and understand the Operator's Manual for proper operation.

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