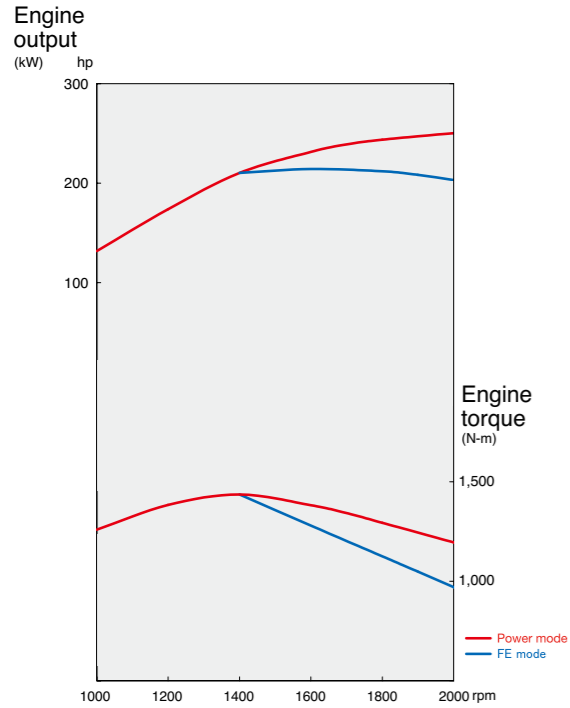


# SPECIFICATIONS

## ENGINE

|                         |  |
|-------------------------|--|
| Model.....              | Cummins QSX15                                    |
| Type.....               | 4-cycle water-cooled, direct injection           |
| Aspiration.....         | Turbocharger and intercooled                     |
| No. of cylinders.....   | 6  |
| Maximum power           | Net  |
| ISO 9249, net.....      | 255 kW (340 HP) at 2 100 min <sup>-1</sup> (rpm) |
| Bore and stroke.....    | 137 mm X 170 mm                                  |
| Piston displacement.... | 15.03 L  |
| Batteries.....          | 2 X 12 V / 1 146 CCA, 140 Ah                     |
| Air cleaner.....        | Two element dry type with restriction indicator  |



## POWER TRAIN

|                       |   |
|-----------------------|---|
| Transmission.....     | Torque converter, planetary gear type powershift with computer-controlled automatic shift and manual shift features included. |
| Torque converter..... | Three element, single stage, single phase   |
| Main clutch.....      | Wet hydraulic, multi-disc type  |
| Cooling method.....   | Forced circulation type   |
| Travel speed* (km/h)  | Forward / Reverse   |
| 1st.....              | 7.7 / 8.2   |
| 2nd.....              | 14.2 / 15.0   |
| 3rd.....              | 22.9 / 24.0   |
| 4th.....              | 34.0 / -  |

\*With 29.5-25-22PR (L3) tubeless

## AXLE AND FINAL DRIVE

|                                      |   |
|--------------------------------------|---|
| Drive system.....                    | Four-wheel drive system                                 |
| Front & rear axle.....               | Full-floating   |
| Front.....                           | Fixed to the front frame                                |
| Rear.....                            | Trunnion support  |
| Reduction and differential gear..... | Spiral bevel gear with torque proportional differential |
| Oscillation angle.....               | Total 24° (+12°, -12°)                                  |
| Final drives.....                    | Heavy-duty planetary, mounted outboard                  |

## TIRES

Tire size..... 29.5-25-22PR (L3)

## BRAKES

Service brakes..... Inboard mounted fully hydraulic 4 wheel wet disc brake. Front & rear independent brake circuit.

## STEERING SYSTEM

Type..... Articulated frame steering  
 Steering mechanism.... Completely hydraulic power steering  
 Steering angle..... Each direction 40° ; total 80°  
 Cylinders..... Two double-acting piston type  
 No. x Bore x Stroke... 2 x 90 mm x 600 mm  
 Minimum turning radius at the centerline of outside tire..... 6 110 mm

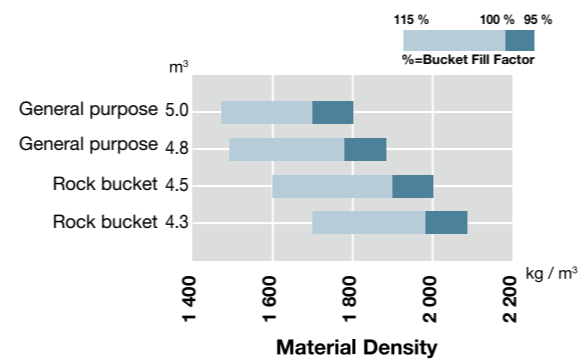
## HYDRAULIC SYSTEM

Lift arm and bucket are controlled by independent control lever.  
 Lift arm controls..... Four position valve ; Raise, hold, lower, float  
 Bucket controls with automatic bucket return-to-dig control.... Three position valve ; Roll back, hold, dump  
 Main pump / Steering pump... Fixed displacement type gear pump  
 Charging pump / Fan pump / Brake and assist pump..... Fixed displacement type gear pump  
 Hydraulic cylinders  
 Type..... Two lift arm and two bucket, double acting type  
 No. x Bore x Stroke.. Arm : 2 x 190 mm x 953 mm  
 Bucket : 2 x 160 mm x 605 mm  
 Filters..... Full-flow 28 micron return filter in reservoir  
 Hydraulic cycle times  
 Lift arm raise..... 6.7 s  
 Lift arm lower..... 4.0 s  
 Bucket dump..... 1.5 s  
 Total..... 12.2 s

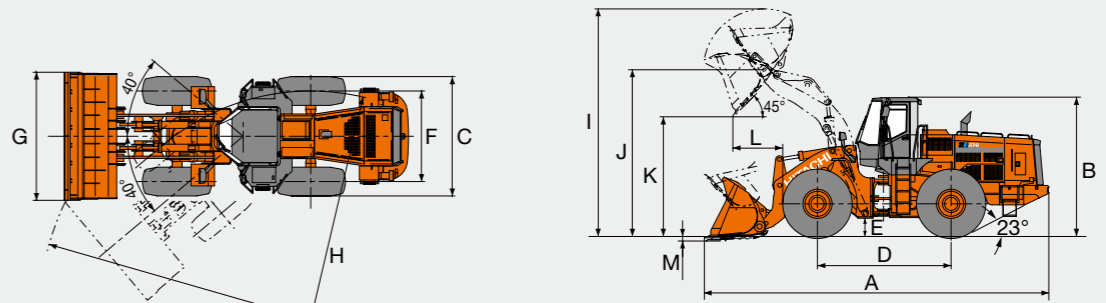
## SERVICE REFILL CAPACITIES

|   |       |        |
|---|-------|--------|
| Fuel tank.....                                    | 425.0 | liters |
| Engine coolant (including oil pan).....           | 96.0  |        |
| Engine oil.....                                   | 45.0  |        |
| Torque convertor & transmission.....              | 65.0  |        |
| Front axle differential & wheel hubs.....         | 100.0 |        |
| Rear axle differential & wheel hubs.....          | 100.0 |        |
| Hydraulic reservoir tank (including oil pan)..... | 265.0 |        |

## BUCKET SELECTION GUIDE



## DIMENSIONS & SPECIFICATIONS



Equipped with general purpose bolt-on edges 5.0 m³ bucket, 29.5-25-22PR (L3) tubeless tire and soft cab.

| Arm type   | Bucket type             | Standard arm    |                            |               |          |              |                 | High Lift arm |
|--|-------------------------|-----------------|----------------------------|---------------|----------|--------------|-----------------|---------------|
|  |                         | General purpose |                            | Rock bucket   |          | Coal bucket  | General purpose |               |
|  |                         | Round bottom    | With bolt-on cutting edges | Straight edge | V-edge   | Round bottom | Round bottom    |               |
| Bucket capacity                                      | ISO heaped m³           | 5.0             | 4.8                        | 4.3           | 4.5      | 7.5          | 4.2             |               |
|  | ISO struck m³           | 4.3             | 4.1                        | 3.7           | 3.8      | 6.4          | 3.6             |               |
| A Overall length                                     | mm                      | 9 280           | 9 420                      | 9 420         | 9 600    | 9 410        | 9 590           |               |
| B Overall height (Top of cab)                        | mm                      | 3 760           |                            |               |          |              |                 |               |
| C Width over tires                                   | mm                      | 3 220           |                            |               |          |              |                 |               |
| D Wheel base   | mm                      | 3 560           |                            |               |          |              |                 |               |
| E Ground clearance                                   | mm                      | 500             |                            |               |          |              |                 |               |
| F Tread  | mm                      | 2 440           |                            |               |          |              |                 |               |
| G Bucket width                                       | mm                      | 3 450           | 3 465                      | 3 465         | 3 465    | 4 090        | 3 450           |               |
| H Turning radius (Centerline of outside tire)        | mm                      | 6 110           |                            |               |          |              |                 |               |
| H' Loader clearance circle, bucket in carry position | mm                      | 7 275           | 7 320                      | 7 320         | 7 320    | 7 610        | 7 430           |               |
| I Overall operating height                           | mm                      | 6 130           | 6 130                      | 6 190         | 6 190    | 6 415        | 6 425           |               |
| J Height to bucket hinge pin, fully raised           | mm                      | 4 490           |                            |               |          |              |                 |               |
| K Dumping clearance 45 degree, full height           | mm                      | 3 220           | 3 105                      | 3 100         | 2 970    | 3 135        | 3 710           |               |
| L Reach, 45 degree dump, full height                 | mm                      | 1 350           | 1 420                      | 1 425         | 1 550    | 1 430        | 1 320           |               |
| M Digging depth (Horizontal digging angle)           | mm                      | 80              | 110                        | 110           | 110      | 80           | 80              |               |
| Bucket weight  | kgf                     | 2 760           | 2 590                      | 3 050         | 3 180    | 3 320        | 2 570           |               |
| Static tipping load *                                | Straight kgf            | 22 350          | 22 510                     | 22 080        | 21 740   | 21 780       | 18 860          |               |
|  | Full 40 degree turn kgf | 18 320          | 18 450                     | 18 090        | 17 820   | 17 860       | 15 460          |               |
| Breakout force                                       | kN                      | 245             | 265                        | 265           | 226      | 223          | 267             |               |
|  | (kgf)                   | (25 000)        | (27 000)                   | (27 000)      | (23 000) | (22 800)     | (27 200)        |               |
| Operating weight *                                   | kg                      | 29 140          | 28 970                     | 29 430        | 29 560   | 29 700       | 29 300          |               |

Note:1. All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7137:1997 and ISO 7546:1983

2. Static tipping load and operating weight marked with \* include 29.5-25-22PR (L3) tires (No ballast) with lubricants, standard counterweight, full fuel tank and operator. Machine stability and operating weight depend on counterweight, tire size and other attachments.

## WEIGHT CHANGE

| Option item         | Operating weight(kg) | Tipping load (kgf) |           | Overall width (mm) (outside tire) | Overall height (mm) | Overall length (mm) |     |
|---------------------|----------------------|--------------------|-----------|-----------------------------------|---------------------|---------------------|-----|
|                     |                      | Straight           | Full turn |                                   |                     |                     |     |
| Tires               | 26.5-25-24PR(L3)     | -420               | -320      | -90                               | -50                 | +40                 |     |
|                     | 26.5-25-24PR(L5)     | +570               | +430      | -60                               | -10                 | +10                 |     |
|                     | 29.5-25-22PR(L3)     | Standard           | Standard  | Standard                          | Standard            | Standard            |     |
|                     | 29.5-25-22PR(L4)     | +730               | +560      | +490                              | +10                 | +35                 | -30 |
|                     | 29.5-25-22PR(L5)     | +1,080             | +820      | +730                              | +10                 | +40                 | -40 |
| ROPS/FOPS cab       | + 300                | + 290              | + 280     | -                                 | -                   | -                   |     |
| Heavy counterweight | +410                 | +1,020             | +850      | -                                 | -                   | -                   |     |
| Under guard         | +230                 | +390               | +340      | -                                 | -                   | -                   |     |

# EQUIPMENT

## STANDARD EQUIPMENT

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

### ELECTRICAL

- Alternator, 75 ampere and 24 volts
- Back up alarm
- Brake and tail lights
- Electric starter
- Halogen headlights with high and low beams (2 front)
- Halogen working lights (4 front and 2 rear)

### GAUGES AND INDICATORS

- Air cleaner warning lamp
- Auto shift indicator lamp
- Battery charge lamp
- Brake pressure warning lamp
- Engine coolant temperature gauge and warning lamp
- Engine oil pressure warning lamp
- Fuel level gauge
- High beam indicator lamp
- Hour meter
- Neutral indicator lamp
- Parking brake indicator lamp
- Tachometer
- Torque converter oil temperature gauge and warning lamp
- Transmission oil filter restriction indicator
- Transmission control warning lamp
- Transmission clutch cut-off lamp
- Transmission status monitor
- Working light indicator lamp

### OPERATOR ENVIRONMENT

- Adjustable operator seat with mechanical suspension
- Two-lever for two-spool control valve
- FNR lever
- Down-shift switch
- Transmission clutch cut-off switch
- Ashtray
- Cup holder
- Cigarette lighter
- Coat hook
- Electric dual horns
- Rubber floor mat
- Front and rear wiper and washers
- Full automatic air conditioner
- Rear view mirrors (interior and exterior)
- Soft cab (left and right doors open, sliding windows by regulator handles)
- Seat belt (2 inch)
- Storage compartment
- Sun visor
- Telescopic and tilt steering wheel
- Tinted safety glass

### POWER TRAIN

- Cummins QSX15 diesel engine
- Full hydraulic enclosed wet multi-disc brakes
- Auto shift transmission (F4/R3)
- Torque proportioning differentials (front/rear)
- Tires, 29.5-25-22 PR(L3) tubeless

### OTHERS

- Bucket auto leveler
- Lift arm kick-out
- Drawbar, with rocking pin
- Handrails
- Ladders, left and right
- Power mode & FE mode
- Loading linkage, sealed Z-bar type dual cylinders
- Secondary brake
- Vandalism protection kit
- Front/rear fenders

### BUCKET

- General purpose bucket with bolt-on cutting edges: 5.0 m<sup>3</sup> (ISO heaped)

## OPTIONAL EQUIPMENT

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

### OPERATOR ENVIRONMENT

- Two-spool main control valve with mono lever
- Three-spool main control valve with three levers
- Adjustable operator seat with air suspension
- Head rest
- AM/FM Radio
- Radio antenna and wiring, stereo speakers
- Turn signals with four-way flasher
- Seat belt (3 inch)
- ROPS/FOPS cab (left and right door open, sliding windows by regulator handles)
- Brake and tail lights (LED)

### OTHERS

- Heavy counterweight
- Heavy counterweight for logging
- Under guard
- High lift arm
- Bucket cylinder guard
- Mud guard for front fender
- Wide front fender with mud guard
- Low temperature (-35 degree C)kit

### BUCKET

- General purpose bucket with bolt-on teeth: 4.8 m<sup>3</sup> (ISO heaped)
- Rock bucket (straight edge) with weld-on teeth: 4.3 m<sup>3</sup> (ISO heaped)
- Rock bucket (V-edge) with weld-on teeth: 4.5 m<sup>3</sup> (ISO heaped)
- Coal bucket with bolt-on cutting edges: 7.5 m<sup>3</sup> (ISO heaped)
- High lift arm with bolt-on cutting edges: Rock bucket 4.2m<sup>3</sup>(ISO heaped)

### POWER TRAIN

- Limited slip differential (LSD)
- Pre-air cleaner
- Emergency steering system
- Ride control system, speed sensitive automatic

Note : \* : ROPS (Roll Over Protective Structure) Conforms to ISO 3471;1994

\*\* : FOPS (Falling Objects Protective Structure) Conforms to ISO 3449; 1992 Level II

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.