

ZAXIS | DASH-5 UTILITY-CLASS EXCAVATORS

# ZX160LC-5

90 kW (121 hp)

# ZX160LC



**HITACHI**

|                                  |  |                  |                     |
|----------------------------------|--|------------------|---------------------|
| <b>Engine</b>                    | <b>ZX160LC-5</b>   |                  |                     |
| Manufacturer and Model           | Isuzu 4JJI   |                  |                     |
| Non-Road Emissions Standards     | Certified to IT4 / Stage IIIB emissions  |                  |                     |
| Net Rated Power (ISO 9249)       | 90 kW (121 hp) @ 2,200 rpm   |                  |                     |
| Cylinders                        | 4  |                  |                     |
| Displacement                     | 3.0L (183 cu in.)  |                  |                     |
| Off Level Capacity               | 70% (35 deg.)  |                  |                     |
| Aspiration                       | Turbocharged, air-to-air charge-air cooler   |                  |                     |
| <b>Cooling</b>                   | Direct-driven, high-efficiency, low-noise, suction-type fan                        |                  |                     |
| <b>Powertrain</b>                | 2-speed propel with automatic shift  |                  |                     |
| <b>Maximum Travel Speed</b>      |  |                  |                     |
| Low                              | 3.4 km/h (2.1 mph)   |                  |                     |
| High                             | 5.3 km/h (3.3 mph)   |                  |                     |
| Drawbar Pull                     | 17 250 kg (38,030 lb.)   |                  |                     |
| <b>Hydraulics</b>                | Open center, load sensing  |                  |                     |
| <b>Main Pumps</b>                | 2 variable-displacement axial-piston pumps   |                  |                     |
| Maximum Rated Flow               | 191 L/m (50 gpm) x 2   |                  |                     |
| <b>Pilot Pump</b>                | One gear   |                  |                     |
| Maximum Rated Flow               | 33.6 L/m (8.9 gpm)   |                  |                     |
| Pressure Setting                 | 3930 kPa (570 psi)   |                  |                     |
| <b>System Operating Pressure</b> |  |                  |                     |
| Implement Circuits               | 34 336 kPa (4,980 psi)   |                  |                     |
| Travel Circuits                  | 34 336 kPa (4,980 psi)   |                  |                     |
| Swing Circuits                   | 34 336 kPa (4,980 psi)   |                  |                     |
| Power Boost                      | 38 000 kPa (5,511 psi)   |                  |                     |
| <b>Controls</b>                  | Pilot levers, short stroke, low-effort hydraulic pilot controls with shutoff lever |                  |                     |
| <b>Cylinders</b>                 |  |                  |                     |
|                                  | Bore   | Rod Diameter     | Stroke              |
| <b>Boom (2)</b>                  | 110 mm (4.33 in.)  | 80 mm (3.15 in.) | 1110 mm (43.70 in.) |
| <b>Arm (1)</b>                   | 120 mm (4.72 in.)  | 90 mm (3.54 in.) | 1365 mm (53.74 in.) |
| <b>Bucket (1)</b>                | 105 mm (4.13 in.)  | 75 mm (2.95 in.) | 935 mm (36.81 in.)  |
| <b>Electrical</b>                | Number of Batteries (12 volt)  |                  |                     |
|                                  | 2  |                  |                     |
| Battery Capacity                 | 1,400 CCA  |                  |                     |
| Alternator Rating                | 50 amp   |                  |                     |
| Work Lights                      | 2 halogen (one mounted on boom, one on frame)                                      |                  |                     |
| <b>Undercarriage</b>             | Rollers (each side)  |                  |                     |
|                                  | Carrier Rollers  |                  |                     |
|                                  | 2  |                  |                     |
|                                  | Track Rollers  |                  |                     |
|                                  | 7  |                  |                     |
| Shoes (each side)                | 43   |                  |                     |
| <b>Track</b>                     | Adjustment   |                  |                     |
|                                  | Hydraulic  |                  |                     |
|                                  | Guides   |                  |                     |
|                                  | Front and center   |                  |                     |
|                                  | Chain  |                  |                     |
|                                  | Sealed and lubricated  |                  |                     |
| <b>Ground Pressure</b>           | 600-mm (24 in.) Triple Semi-Grouser Shoes  |                  |                     |
|                                  | 41 kPa (5.95 psi)  |                  |                     |
|                                  | 700-mm (28 in.) Triple Semi-Grouser Shoes  |                  |                     |
|                                  | 35 kPa (5.08 psi)  |                  |                     |
| <b>Swing Mechanism</b>           | Swing Speed  |                  |                     |
|                                  | 13.3 rpm   |                  |                     |
|                                  | Swing Torque   |                  |                     |
|                                  | 44 000 Nm (32,353 lb.-ft.)   |                  |                     |

# DASH-5

## Serviceability

### Refill Capacities

|                        |                  |
|------------------------|------------------|
| Fuel Tank              | 320L (84.5 gal.) |
| Cooling System         | 22L (23.2 qt.)   |
| Engine Oil with Filter | 17L (18 qt.)     |
| Hydraulic Tank         | 125L (33 gal.)   |
| Hydraulic System       | 210L (55.5 gal.) |
| Swing Gearbox          | 6.2L (6.6 qt.)   |
| Propel Gearbox (each)  | 6.8L (7.2 qt.)   |
| Pump Drive Gearbox     | 0.9L (1 qt.)     |

### Operating Weights

With full fuel tank; 79-kg (175 lb.) operator; 528-kg (1,164 lb.) general-purpose bucket; 2.6-m (8 ft. 6 in.) arm; 3210-kg (7,077 lb.) counterweight, and 700-mm (28 in.) triple semi-grouser shoes.

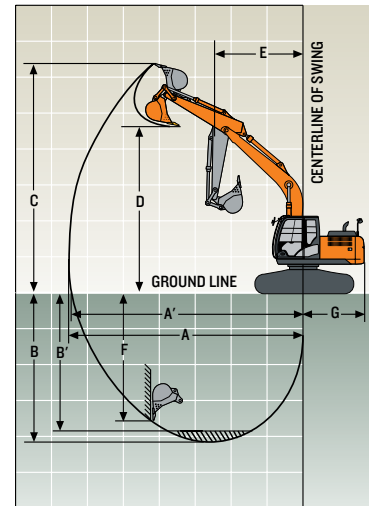
|                  |                        |
|------------------|------------------------|
| Operating Weight | 16 565 kg (36,487 lb.) |
|------------------|------------------------|

### Optional Components

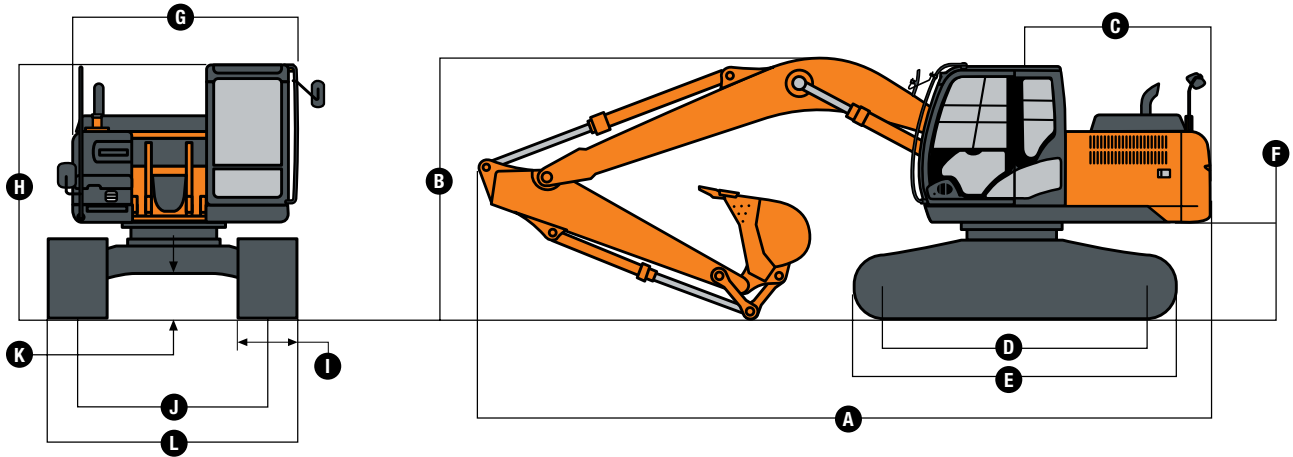
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|--|----------------------|
| <b>Undercarriage w/ Triple Semi-Grouser Shoes</b>                |                      |
| 600-mm (24 in.)  | 6316 kg (13,912 lb.) |
| 700-mm (28 in.)  | 6530 kg (14,383 lb.) |
| <b>One-Piece Boom (with arm cylinder)</b>                        |                      |
|  | 1300 kg (2,863 lb.)  |
| <b>Arm with Bucket Cylinder and Linkage</b>                      |                      |
| 2.6 m (8 ft. 6 in.)  | 788 kg (1,736 lb.)   |
| 3.1 m (10 ft. 2 in.)   | 874 kg (1,925 lb.)   |
| <b>Boom Lift Cylinders (2) Total Weight</b>                      |                      |
|  | 306 kg (674 lb.)     |
| <b>914-mm (36 in.), 0.62-m<sup>3</sup> (0.81 cu. yd.) Bucket</b> |                      |
| Counterweight Standard   | 3210 kg (7,077 lb.)  |

### Operating Dimensions

|  |                            |                             |
|--|----------------------------|-----------------------------|
| <b>Arm Length</b>  | <b>2.6 m (8 ft. 6 in.)</b> | <b>3.1 m (10 ft. 2 in.)</b> |
| <b>Arm Digging Force</b>   |                            |                             |
| SAE  | 88 kN (19,784 lb.)         | 78 kN (17,536 lb.)          |
| ISO  | 91 kN (20,459 lb.)         | 81 kN (18,210 lb.)          |
| <b>Bucket Digging Force</b>                                      |                            |                             |
| SAE  | 99 kN (22,257 lb.)         | 99 kN (22,257 lb.)          |
| ISO  | 112 kN (25,180 lb.)        | 112 kN (25,180 lb.)         |
| <b>A</b> Maximum Reach   | 8.87 m (29 ft. 1 in.)      | 9.33 m (30 ft. 7 in.)       |
| <b>A'</b> Maximum Reach at Ground Level                          | 8.7 m (28 ft. 7 in.)       | 9.16 m (30 ft. 1 in.)       |
| <b>B</b> Maximum Digging Depth                                   | 5.98 m (19 ft. 7 in.)      | 6.49 m (21 ft. 4 in.)       |
| <b>B'</b> Maximum Digging Depth at<br>2.44-m (8 ft.) Flat Bottom | 5.74 m (18 ft. 10 in.)     | 6.27 m (20 ft. 7 in.)       |
| <b>C</b> Maximum Cutting Height                                  | 8.88 m (29 ft. 2 in.)      | 9.13 m (29 ft. 11 in.)      |
| <b>D</b> Maximum Dumping Height                                  | 6.17 m (20 ft. 3 in.)      | 6.4 m (20 ft. 12 in.)       |
| <b>E</b> Minimum Swing Radius                                    | 2.91 m (9 ft. 7 in.)       | 2.92 m (9 ft. 7 in.)        |
| <b>F</b> Maximum Vertical Wall                                   | 5.16 m (16 ft. 11 in.)     | 5.69 m (18 ft. 8 in.)       |
| <b>G</b> Tail-Swing Radius                                       | 2.55 m (8 ft. 4 in.)       | 2.55 m (8 ft. 4 in.)        |



| Machine Dimensions                                      | ZXI60LC-5                          |
|---|------------------------------------|
| <b>A</b> Overall Length                                 |                                    |
| 2.6-m (8 ft. 6 in.) arm                                 | 8.62 m (28 ft. 3 in.)              |
| 3.1-m (10 ft. 2 in.) arm                                | 8.65 m (28 ft. 5 in.)              |
| <b>B</b> Overall Height                                 |                                    |
| 2.6-m (8 ft. 6 in.) arm                                 | 2.87 m (9 ft. 5 in.)               |
| 3.1-m (10 ft. 2 in.) arm                                | 3.11 m (10 ft. 2 in.)              |
| <b>C</b> Rear-End Length/Swing Radius                   | 2.55 m (8 ft. 4 in.)               |
| <b>D</b> Distance Between Idler/<br>Sprocket Centerline | 3.1 m (10 ft. 2 in.)               |
| <b>E</b> Undercarriage Length                           | 3.92 m (12 ft. 10 in.)             |
| <b>F</b> Counterweight Clearance                        | 1030 mm (3 ft. 5 in.)              |
| <b>G</b> Upperstructure Width                           | 2.5 m (8 ft. 2 in.)                |
| <b>H</b> Cab Height                                     | 2.95 m (9 ft. 8 in.)               |
| <b>I</b> Track Width w/ Triple Semi-Grouser Shoes       | 600 mm (24 in.)<br>700 mm (28 in.) |
| <b>J</b> Gauge Width                                    | 1.99 m (6 ft. 6 in.)               |
| <b>K</b> Ground Clearance                               | 470 mm (19 in.)                    |
| <b>L</b> Overall Width w/ Triple Semi-Grouser Shoes     | 600 mm (24 in.)<br>700 mm (28 in.) |



# DASH-5

## Lift Charts

Boldface type indicates hydraulically limited capacity; lightface type indicates stability-limited capacities, in kg (lb.). Ratings at bucket lift hook; machine equipped with 528-kg (1,164 lb.) bucket; standard gauge; and situated on firm, uniform supporting surface. Total load includes weight of cables, hook, etc. Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine. All lift capacities are based on ISO 10567 (with power boost).

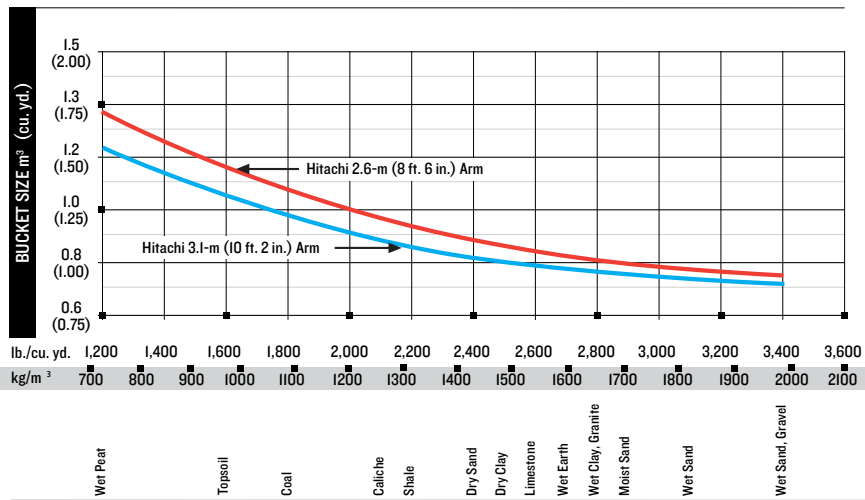
| Load Point Height                                       | 1.5 m (5 ft.) |             | 3.0 m (10 ft.) |             | 4.5 m (15 ft.) |             | 6.0 m (20 ft.) |             | 7.5 m (25 ft.) |           |
|---|---------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-----------|
| Horizontal Distance from Centerline of Rotation         | Over Front    | Over Side   | Over Front     | Over Side   | Over Front     | Over Side   | Over Front     | Over Side   | Over Front     | Over Side |
| With 2.6-m (8 ft. 6 in.) arm and 600-mm (24 in.) shoes  |               |             |                |             |                |             |                |             |                |           |
| 6.0 m (20 ft.)  |               |             |                |             |                |             | <b>2850</b>    | <b>2850</b> |                |           |
| 4.5 m (15 ft.)  |               |             |                |             | <b>4100</b>    | <b>4100</b> | <b>3850</b>    | 2900        |                |           |
|   |               |             |                |             | (8,900)        | (8,900)     | (8,400)        | (6,250)     |                |           |
| 3.0 m (10 ft.)  |               |             | <b>8400</b>    | <b>8400</b> | <b>5400</b>    | 4450        | <b>4400</b>    | 2750        |                |           |
|   |               |             | (17,850)       | (17,850)    | (11,700)       | (9,550)     | (9,550)        | (5,950)     |                |           |
| 1.5 m (5 ft.)   |               |             |                |             | <b>6800</b>    | 4100        | 4300           | 2650        |                |           |
|   |               |             |                |             | (14,650)       | (8,850)     | (9,200)        | (5,650)     |                |           |
| Ground Line   |               |             | <b>5800</b>    | <b>5800</b> | 6600           | 3900        | 4150           | 2500        |                |           |
|   |               |             | (13,450)       | (13,450)    | (14,200)       | (8,450)     | (8,950)        | (5,400)     |                |           |
| -1.5 m (-5 ft.)   | <b>5300</b>   | 5300        | 9950           | 7450        | 6550           | 3850        | 4100           | 2500        |                |           |
|   | (11,850)      | (11,850)    | (22,800)       | (15,950)    | (14,050)       | (8,300)     | (8,850)        | (5,350)     |                |           |
| -3.0 m (-10 ft.)  | <b>9850</b>   | 9850        | 10550          | 7600        | 6600           | 3900        |                |             |                |           |
|   | (22,250)      | (22,250)    | (22,850)       | (16,300)    | (14,200)       | (8,450)     |                |             |                |           |
| With 2.6-m (8 ft. 6 in.) arm and 700-mm (28 in.) shoes  |               |             |                |             |                |             |                |             |                |           |
| 6.0 m (20 ft.)  |               |             |                |             |                |             | <b>2850</b>    | <b>2850</b> |                |           |
| 4.5 m (15 ft.)  |               |             |                |             | <b>4100</b>    | <b>4100</b> | 3850           | 3000        |                |           |
|   |               |             |                |             | (8,900)        | (8,900)     | (8,400)        | (6,400)     |                |           |
| 3.0 m (10 ft.)  |               |             | <b>8400</b>    | <b>8400</b> | <b>5400</b>    | 4550        | 4400           | 2850        |                |           |
|   |               |             | (17,850)       | (17,850)    | (11,700)       | (9,800)     | (9,550)        | (6,150)     |                |           |
| 1.5 m (5 ft.)   |               |             |                |             | <b>6800</b>    | 4200        | 4400           | 2700        |                |           |
|   |               |             |                |             | (14,650)       | (9,100)     | (9,450)        | (5,800)     |                |           |
| Ground Line   |               |             | <b>5800</b>    | <b>5800</b> | 6800           | 4050        | 4300           | 2600        |                |           |
|   |               |             | (13,450)       | (13,450)    | (14,600)       | (8,650)     | (9,200)        | (5,600)     |                |           |
| -1.5 m (-5 ft.)   | <b>5300</b>   | 5300        | 9950           | 7650        | 6700           | 3950        | 4250           | 2550        |                |           |
|   | (11,850)      | (11,850)    | (22,800)       | (16,400)    | (14,450)       | (8,550)     | (9,150)        | (5,500)     |                |           |
| -3.0 m (-10 ft.)  | <b>9850</b>   | 9850        | 10550          | 7800        | 6800           | 4050        |                |             |                |           |
|   | (22,250)      | (22,250)    | (22,850)       | (16,700)    | (14,600)       | (8,700)     |                |             |                |           |
| With 3.1-m (10 ft. 2 in.) arm and 600-mm (24 in.) shoes |               |             |                |             |                |             |                |             |                |           |
| 6.0 m (20 ft.)  |               |             |                |             |                |             | <b>2950</b>    | <b>2950</b> |                |           |
|   |               |             |                |             |                |             | (6,150)        | (6,150)     |                |           |
| 4.5 m (15 ft.)  |               |             |                |             |                |             | <b>3400</b>    | 2950        |                |           |
|   |               |             |                |             |                |             | (7,450)        | (6,300)     |                |           |
| 3.0 m (10 ft.)  |               |             | <b>6950</b>    | <b>6950</b> | <b>4800</b>    | 4500        | <b>4000</b>    | 2800        | <b>2900</b>    | 1850      |
|   |               |             | (14,800)       | (14,800)    | (10,400)       | (9,750)     | (8,700)        | (6,000)     | (5,750)        | (4,000)   |
| 1.5 m (5 ft.)   |               |             | <b>7100</b>    | <b>7100</b> | <b>6300</b>    | 4150        | 4300           | 2650        | 2950           | 1800      |
|   |               |             | (17,200)       | (16,750)    | (13,600)       | (8,950)     | (9,250)        | (5,650)     | (6,350)        | (3,850)   |
| Ground Line   |               |             | <b>6400</b>    | <b>6400</b> | 6600           | 3900        | 4150           | 2500        | 2900           | 1750      |
|   |               |             | (14,750)       | (14,750)    | (14,200)       | (8,400)     | (8,900)        | (5,400)     | (6,200)        | (3,700)   |
| -1.5 m (-5 ft.)   | <b>4700</b>   | <b>4700</b> | <b>9200</b>    | 7350        | 6500           | 3800        | 4100           | 2450        |                |           |
|   | (10,550)      | (10,550)    | (21,000)       | (15,750)    | (13,950)       | (8,200)     | (8,750)        | (5,250)     |                |           |
| -3.0 m (-10 ft.)  | <b>8250</b>   | <b>8250</b> | <b>11200</b>   | 7450        | 6500           | 3850        | 4100           | 2450        |                |           |
|   | (18,600)      | (18,600)    | (24,200)       | (15,950)    | (14,000)       | (8,250)     | (8,850)        | (5,300)     |                |           |
| -4.5 m (-15 ft.)  |               |             | <b>8900</b>    | 7700        | <b>5850</b>    | 4000        |                |             |                |           |
|   |               |             | (19,050)       | (16,600)    | (12,300)       | (8,650)     |                |             |                |           |
| With 3.1-m (10 ft. 2 in.) arm and 700-mm (28 in.) shoes |               |             |                |             |                |             |                |             |                |           |
| 6.0 m (20 ft.)  |               |             |                |             |                |             | <b>2950</b>    | <b>2950</b> |                |           |
|   |               |             |                |             |                |             | (6,150)        | (6,150)     |                |           |
| 4.5 m (15 ft.)  |               |             |                |             |                |             | <b>3400</b>    | 3000        |                |           |
|   |               |             |                |             |                |             | (7,450)        | (6,500)     |                |           |
| 3.0 m (10 ft.)  |               |             | <b>6950</b>    | <b>6950</b> | <b>4800</b>    | 4650        | <b>4000</b>    | 2900        | <b>2900</b>    | 1900      |
|   |               |             | (14,800)       | (14,800)    | (10,400)       | (10,000)    | (8,700)        | (6,200)     | (5,750)        | (4,100)   |
| 1.5 m (5 ft.)   |               |             | <b>7100</b>    | <b>7100</b> | <b>6300</b>    | 4250        | 4400           | 2700        | 3050           | 1850      |
|   |               |             | (17,200)       | (17,200)    | (13,600)       | (9,200)     | (9,500)        | (5,850)     | (6,550)        | (3,950)   |
| Ground Line   |               |             | <b>6400</b>    | <b>6400</b> | 6800           | 4000        | 4250           | 2600        | 3000           | 1800      |
|   |               |             | (14,750)       | (14,750)    | (14,600)       | (8,650)     | (9,150)        | (5,550)     | (6,400)        | (3,850)   |
| -1.5 m (-5 ft.)   | <b>4700</b>   | <b>4700</b> | <b>9200</b>    | 7550        | 6650           | 3900        | 4200           | 2500        |                |           |
|   | (10,550)      | (10,550)    | (21,000)       | (16,150)    | (14,350)       | (8,450)     | (9,000)        | (5,400)     |                |           |
| -3.0 m (-10 ft.)  | <b>8250</b>   | <b>8250</b> | <b>11200</b>   | 7650        | 6700           | 3950        | 4200           | 2550        |                |           |
|   | (18,600)      | (18,600)    | (24,200)       | (16,400)    | (14,400)       | (8,500)     | (9,100)        | (5,500)     |                |           |
| -4.5 m (-15 ft.)  |               |             | <b>8900</b>    | 7900        | <b>5850</b>    | 4100        |                |             |                |           |
|   |               |             | (19,050)       | (17,000)    | (12,300)       | (8,900)     |                |             |                |           |

### Buckets

A full line of buckets is offered to meet a wide variety of applications. Digging forces are with power boost. Buckets are equipped with ESCO teeth standard. Replaceable cutting edges and a variety of teeth are available through Hitachi parts. Optional side cutters add 150 mm (6 in.) to bucket widths. Capacities are SAE heaped ratings.

| Type Bucket                   | Bucket Width |     | Bucket Capacity |         | Bucket Weight |       | Bucket Dig Force |        | Arm Dig Force<br>2.6 m (8 ft. 6 in.) |        | Arm Dig Force<br>3.1 m (10 ft. 2 in.) |        | Bucket Tip Radius |       | Number of Teeth |
|-------------------------------|--------------|-----|-----------------|---------|---------------|-------|------------------|--------|--------------------------------------|--------|---------------------------------------|--------|-------------------|-------|-----------------|
|                               | mm           | in. | m <sup>3</sup>  | cu. yd. | kg            | lb.   | kN               | lb.    | kN                                   | lb.    | kN                                    | lb.    | mm                | in.   |                 |
| General Purpose High Capacity | 610          | 24  | 0.41            | 0.54    | 491           | 1,081 | 97.7             | 21,966 | 87.8                                 | 19,744 | 78.5                                  | 17,648 | 1463              | 57.61 | 4               |
| General Purpose High Capacity | 760          | 30  | 0.55            | 0.72    | 569           | 1,253 | 97.7             | 21,966 | 87.8                                 | 19,744 | 78.5                                  | 17,648 | 1463              | 57.61 | 4               |
| General Purpose High Capacity | 915          | 36  | 0.70            | 0.91    | 655           | 1,443 | 97.7             | 21,966 | 87.8                                 | 19,744 | 78.5                                  | 17,648 | 1463              | 57.61 | 5               |
| General Purpose High Capacity | 1065         | 42  | 0.85            | 1.11    | 733           | 1,615 | 97.7             | 21,966 | 87.8                                 | 19,744 | 78.5                                  | 17,648 | 1463              | 57.61 | 5               |
| Heavy Duty                    | 610          | 24  | 0.37            | 0.48    | 493           | 1,086 | 106.0            | 23,832 | 90.4                                 | 20,320 | 80.5                                  | 18,105 | 1349              | 53.1  | 4               |
| Heavy Duty                    | 760          | 30  | 0.50            | 0.65    | 554           | 1,221 | 106.0            | 23,832 | 90.4                                 | 20,320 | 80.5                                  | 18,105 | 1349              | 53.1  | 4               |
| Heavy Duty                    | 915          | 36  | 0.62            | 0.81    | 623           | 1,373 | 106.0            | 23,832 | 90.4                                 | 20,320 | 80.5                                  | 18,105 | 1349              | 53.1  | 5               |
| Heavy Duty                    | 1065         | 42  | 0.76            | 0.99    | 685           | 1,508 | 106.0            | 23,832 | 90.4                                 | 20,320 | 80.5                                  | 18,105 | 1349              | 53.1  | 5               |
| Ditching                      | 1525         | 60  | 0.63            | 0.83    | 484           | 1,066 | 152.9            | 34,378 | 101.0                                | 22,712 | 88.8                                  | 19,971 | 935               | 36.81 | 0               |

### Bucket Selection Guide\*



\*Contact your Hitachi dealer for optimum bucket and attachment selections. These recommendations are for general conditions and average use. Does not include optional equipment such as thumbs or couplers. Larger buckets may be possible when using light materials, 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, rocks, and uneven surfaces. Bucket capacity indicated is SAE heaped.

# DASH-5

## ADDITIONAL EQUIPMENT

Key: ● Standard ▲ Optional or special

### Engine

- Auto-idle system
- Batteries (2 – 12 volt)
- Coolant recovery tank
- Dual-element dry-type air filter
- Electronic engine control
- Enclosed fan guard (conforms to SAE J1308)
- Engine coolant to -37 deg. C (-34 deg. F)
- Programmable auto shutdown
- Fuel filter with water separator
- Full-flow oil filter
- Turbocharger with charge air cooler
- 500-hour engine-oil-change interval
- 70% (35 deg.) off-level capability
- Engine-oil-sampling valve

### Hydraulic System

- Reduced-drift valve for boom down, arm in
- Auxiliary hydraulic valve section
- Spring-applied, hydraulically released automatic swing brake
- Auxiliary hydraulic-flow adjustments through monitor
- Auto power lift
- 5,000-hour hydraulic-oil-change interval
- Hydraulic-oil-sampling valve
- ▲ Auxiliary hydraulic lines
- ▲ Auxiliary pilot and electric controls
- ▲ Hydraulic filter restriction indicator kit
- ▲ Load-lowering control device
- ▲ Single-pedal propel control
- ▲ Control pattern change valve

### Undercarriage

- Planetary drive with axial piston motors
- Propel motor shields
- Spring-applied, hydraulically released automatic propel brake
- Track guides, front idler and center
- 2-speed propel with automatic shift
- Upper carrier rollers (2)
- Sealed and lubricated track chain
- ▲ Triple semi-grouser shoes, 600 mm (24 in.)
- ▲ Triple semi-grouser shoes, 700 mm (28 in.)

### Upperstructure

- Right-hand, left-hand, and counterweight mirrors
- Vandal locks with ignition key: Cab door / Service doors / Toolbox
- Debris screen
- Remote-mounted engine oil and fuel filters

### Front Attachments

- Centralized lubrication system
- Dirt seals on all bucket pins
- Less boom and arm
- HN bushings
- Reinforced resin thrust plates
- Tungsten carbide thermal coating on arm-to-bucket joint
- ▲ Arm, 2.6 m (8 ft. 6 in.)
- ▲ Arm, 3.1 m (10 ft. 2 in.)
- ▲ Attachment quick-couplers
- ▲ Boom cylinder with plumbing to mainframe less boom and arm
- ▲ Buckets: Ditching / Heavy duty / Heavy-duty high capacity / Side cutters and teeth
- ▲ Material clamps

### Operator's Station

- Meets ISO 12117-2 for ROPS
- Adjustable independent-control positions (levers-to-seat, seat-to-pedals)
- AM/FM radio
- Auto climate control/air conditioner/heater/pressurizer
- Built-in Operator's Manual storage compartment and manual
- Cell-phone power outlet, 12 volt, 60 watt, 5 amp
- Coat hook
- Deluxe suspension cloth seat with 100-mm (4 in.) adjustable armrests
- Floor mat
- Front windshield wiper with intermittent speeds
- Gauges (illuminated): Engine coolant / Fuel
- Horn, electric
- Hour meter, electric
- Hydraulic shutoff lever, all controls
- Hydraulic warm-up control
- Interior light
- Large cup holder
- Machine Information Center (MIC)
- Mode selectors (illuminated): Power modes (3) / Travel modes (2 with automatic shift) / Work mode (1)

### Operator's Station (continued)

- Multifunction, color LCD monitor with: Diagnostic capability / Multiple-language capabilities / Maintenance tracking / Clock / System monitoring with alarm features: Auto-idle indicator, engine air cleaner restriction indicator light, engine check, engine coolant temperature indicator light with audible alarm, engine oil pressure indicator light with audible alarm, low-alternator-charge indicator light, low-fuel indicator light, fault code alert indicator, fuel-rate display, wiper-mode indicator, work-lights-on indicator, and work-mode indicator
  - Motion alarm with cancel switch (conforms to SAE J994)
  - Power-boost switch on right console lever
  - Auxiliary hydraulic control switches in right console lever
  - SAE 2-lever control pattern
  - Seat belt, 51 mm (2 in.), retractable
  - Tinted glass
  - Transparent tinted overhead hatch
  - Hot/cold beverage compartment
  - ▲ Air-suspension heated seat
  - ▲ Hydraulic oil filter restriction indicator light
  - ▲ Protection screens for cab front, rear, and side
  - ▲ Seat belt, 76 mm (3 in.), non-retractable
  - ▲ Window vandal-protection covers
- ### Electrical
- 50-amp alternator
  - Blade-type multi-fused circuits
  - Positive-terminal battery covers
  - ZXLink™ wireless communication system (available in specific countries; see your dealer for details)
  - ▲ Rearview camera
  - ▲ Cab extension wiring harness
- ### Lights
- Work lights: Halogen / One mounted on boom / One mounted on frame
  - ▲ 2 lights mounted on cab / One mounted on right side of boom

See your Hitachi dealer for further information.

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at test conditions specified per ISO 9249. No derating is required up to 2000-m (6,560 ft.) altitude. Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on a unit with 914-mm (36 in.), 0.62-m<sup>3</sup> (0.81 cu. yd.), 623-kg (1,373 lb.) general-purpose bucket; 3.1-m (10 ft. 2 in.) arm; 3210-kg (7,077 lb.) counterweight; 700-mm (28 in.) triple semi-grouser shoes; full fuel tank; and 79-kg (175 lb.) operator.

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