

## PC5500-11

Excavator



Safety



Reliability



Productivity



If you're looking for a workhorse excavator you can count on, consider the twin-engine PC5500. Offering a combination of robust construction, choice of diesel motors or electric drives, and advanced technology, the PC5500.

### Operating capacities

|                               | Front shovel                            | Backhoe       |
|-------------------------------|-----------------------------------------|---------------|
| Operating weight              | 533 MT                                  | 539 MT        |
| Standard bucket configuration | 29 m <sup>3</sup> (38 yd <sup>3</sup> ) |               |
| Engine power                  | 2 520 kW (1,880 HP)                     |               |
| Truck compatibility           | 150 short tons - 240 short tons         |               |
| Swing speed                   | 3.1 rpm                                 |               |
| Boom length                   | 7 600 mm                                | 11 000 mm     |
| Stick length                  | 5 600 mm                                | 5 100 mm      |
| Breakout force                | 1 870 kN                                | 1 516 kN      |
| Crowd force/*tear-out force   | 1 850 kN                                | *1 326 kN     |
| Tier 4 option                 | Yes                                     | Yes           |
| Electric drive option         | as -6 version                           | as -6 version |

# PC5500-11

## Diesel drive

|                            |                                         |
|----------------------------|-----------------------------------------|
| Model (Tier 4)             | Komatsu SDA12V159E-3                    |
| Type                       | 4-cycle, water-cooled, direct injection |
| Aspiration                 | Turbocharged and aftercooled            |
| Number of cylinders        | 12                                      |
| Engines amount             | 2                                       |
| Rated power per engine     | 940 kW (1,260 HP) @ 1800 rpm            |
| Governor                   | All-speed, electronic                   |
| DEF tank capacity (tier 4) | 2 x 514 L (2 x 136 gal)                 |

## Electric drive

|                         |                              |
|-------------------------|------------------------------|
| Type                    | Asynchronous motor           |
| E-drive availability-11 | Not available                |
| Engines amount          | 2                            |
| Rated power per engine  | 940 kW (1,223 HP) @ 1800 rpm |
| Voltage                 | 6 000-7 200 V                |
| Amperage (approx.)      | 2x 155 A-2x 80 A             |
| Frequency standard      | 60 Hz @ 1800 rpm             |
| Frequency option        | 50 Hz @ 1500 rpm             |

## Electric system

|                                  |                                                                    |
|----------------------------------|--------------------------------------------------------------------|
| System                           | 24 V                                                               |
| Batteries                        | 8x12 V                                                             |
| Alternator                       | 2x140 A                                                            |
| Standard working lights (amount) | 16 LED lights                                                      |
| Standard service lights          | Throughout the platform including emergency egresses and stairways |

## Undercarriage

|                                    |                          |
|------------------------------------|--------------------------|
| Track adjustment                   | Automatic hydraulic type |
| Number of track shoes each side    | 46                       |
| Number of top rollers each side    | 3                        |
| Number of bottom rollers each side | 7                        |

## Travel and brake systems

|                    |                    |
|--------------------|--------------------|
| Gradeability       | Up to 50%          |
| Travel speed (max) | 2.1 km/h (1.4 mph) |
| Service brake      | Hydraulic brake    |
| Parking brake      | Multiple brake     |

## Swing system

|                                  |                 |
|----------------------------------|-----------------|
| Hydraulic motors and swing gears | 2               |
| Swing brake, dynamic             | Hydraulic brake |
| Swing brake, parking             | Multiple-disc   |
| Swing ring teeth                 | External        |
| Swing speed (max)                | 3.1 rpm         |

## Environment

|                                             |                                 |
|---------------------------------------------|---------------------------------|
| Hand-lever (ISO 5349-1)                     | Lower than 2.5 m/s <sup>2</sup> |
| Whole body vibration and shock (ISO 2631-1) | Below 0.5 m/s <sup>2</sup>      |
| Greenhouse gas                              | HFC-134a (GWP 1430)             |
| PC5500-11 D quantity of gas                 | 5.5-10.0 kg                     |
| PC5500-11 D CO <sub>2</sub> equivalent      | 7.856-14.300 t                  |
| PC5500-11 E quantity of gas                 | 7.9-12.4 kg                     |
| PC5500-11 E CO <sub>2</sub> equivalent      | 11.297-17.732 t                 |

## Hydraulic system

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description           | The power train consists of two main drives. Each of the two gearboxes drives three identical main pumps which draw hydraulic oil from an unpressurized hydraulic tank. Open circuit hydraulics provide maximum cooling and filtering efficiency.                                                                                                                                                                                              |
| Main hydraulic pumps  | Komatsu                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Main hydraulic pumps  | 4 200 L/min (1,110 gpm)                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Relief valve setting  | 310 bar (4,495 psi)                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Swing flow rate       | 700 L/min (185 gpm)                                                                                                                                                                                                                                                                                                                                                                                                                            |
| High pressure screens | 200 microns                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Flow description      | The four-circuit systems feature a load-limiting governor with oil delivery summation to the working circuits and incorporates pressure cut-off control. Hydropilot prioritises hydraulic flow giving smooth hydraulic response, simple hydraulic system layout, and a reduced number of components. The hydraulic system includes large swing-out vertical air-to-oil hydraulic coolers with temperature-regulated hydraulically driven fans. |

## Automatic lubrication system

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Three hydraulically powered Lincoln single line automatic lubrication systems are provided as standard, complete with time and volume variable controls. The two central lubrication circuits and open gear grease circuit are supplied by identical pump assemblies from refillable containers which have a capacity of 1x 600 and 1x 300 L (total 238 gal). Replenishment of the containers is through the Wiggins connections on the service arm. |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Capacities

|                                             |                         |
|---------------------------------------------|-------------------------|
| Hydraulic oil tank                          | 3 715 L (982 US gal)    |
| Hydraulic system                            | 6 000 L (1,585 US gal)  |
| Fuel tank - usable volume including reserve | 10 626 L (2,807 US gal) |
| Fuel tank - reserve                         | 271 L (71.6 US gal)     |
| Engine coolant                              | 720 L (2x 95 US gal)    |
| Engine oil                                  | 380 L (2x 50 US gal)    |
| Lubrication system (total)                  | 900 L (238 US gal)      |

## Operator cab

|                           |                                                                                                               |
|---------------------------|---------------------------------------------------------------------------------------------------------------|
| Damping pads (amount)     | Enclosed steel cab mounted on viscous pads                                                                    |
| AC System                 | Air-condition unit                                                                                            |
| Suspension of seat        | Full suspension operator seat with belt                                                                       |
| Heating of seat           | Electrically heated                                                                                           |
| Seat belt                 | Trainer seat with belt                                                                                        |
| Adjustments of seat       | Multiple adjustments                                                                                          |
| Joystick controls         | Electro-hydraulic joystick controls                                                                           |
| Foot controls             | Foot control for shovel clam, crawler and swing brake                                                         |
| Radio version             | AM-FM radio with MP3 ready CD player and AUX in                                                               |
| Windshield washers        | 1 large parallel windshield wash wiper                                                                        |
| Windshield washer speed   | Two speeds and intermittent operation                                                                         |
| Additional mirrors        | 2 heated rear mirrors                                                                                         |
| Sun blinds                | Internal and external                                                                                         |
| Roller blinds             | Standard on all windows (excluding rear door)                                                                 |
| Sliding window            | ESG escape window, VSG according to ECE R43                                                                   |
| Window tinting            | Parsol green                                                                                                  |
| Penetration proof windows | Impact resistant front window (21 mm and tolerances)                                                          |
| Walkway                   | Walkway around the cab                                                                                        |
| Engineering standards     | ISO 3449, ISO 6394, ISO 10263-4<br>TL: EN474-1, EN 474-5, DIN 15018,<br>BR2-S DIN EN 1063, ECE R43, ISO 10262 |

## Komtrax plus

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version         | Komtrax Plus Upgrade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Description     | The KOMTRAX Plus monitoring system is designed for Komatsu mining equipment to provide real time and stored information about the operating status of the machine. Fault messages are immediately available to the operator via a digital display and in the event of critical malfunctions the engine is also shut down. The digital storage provides failure summary and analysis, which can be down loaded by laptop computer. This data will assist in predicting or reduction downtime. Optionally available is ORBCOMM and Iridium satellite transmission (check for availability in your territory). |
| Argus PLM ready | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Front shovel attachment

|                             |                         |
|-----------------------------|-------------------------|
| Boom length                 | 7 600 mm (24.9 ft.)     |
| Stick length                | 5 600 mm (18.4 ft.)     |
| Break-out force (ISO)       | 1 870 kN (420,393 lbf.) |
| Crowd force (ISO)           | 1 850 kN (415,897 lbf.) |
| Max cutting height          | 19 820 mm (65.0 ft.)    |
| Max dumping height          | 13 100 mm (43.0 ft.)    |
| Max digging depth           | 2 980 mm (9.8 ft.)      |
| Max digging reach           | 16 750 mm (55.0 ft.)    |
| Level crowd at ground level | 5 680 mm (18.6 ft.)     |
| Bucket opening width        | 2 790 mm (9.2 ft.)      |

## Front shovel capacities

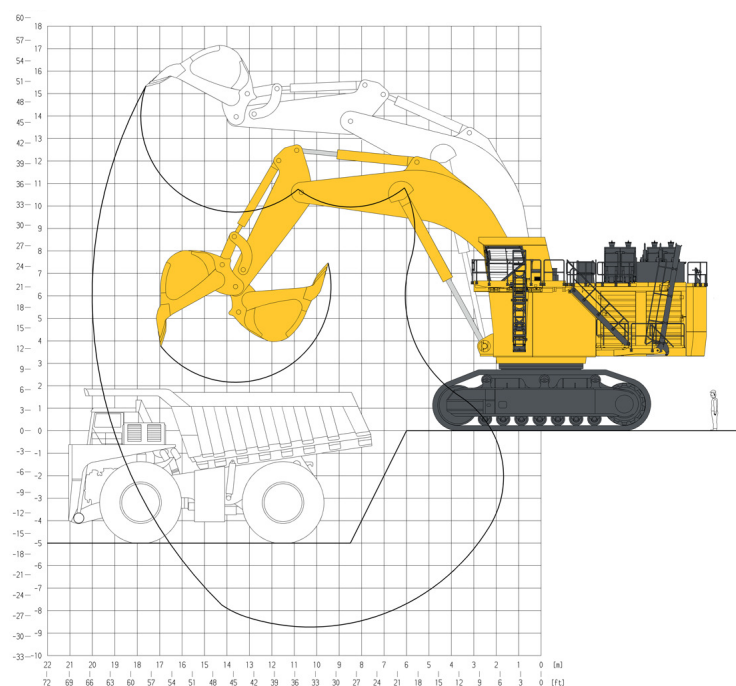
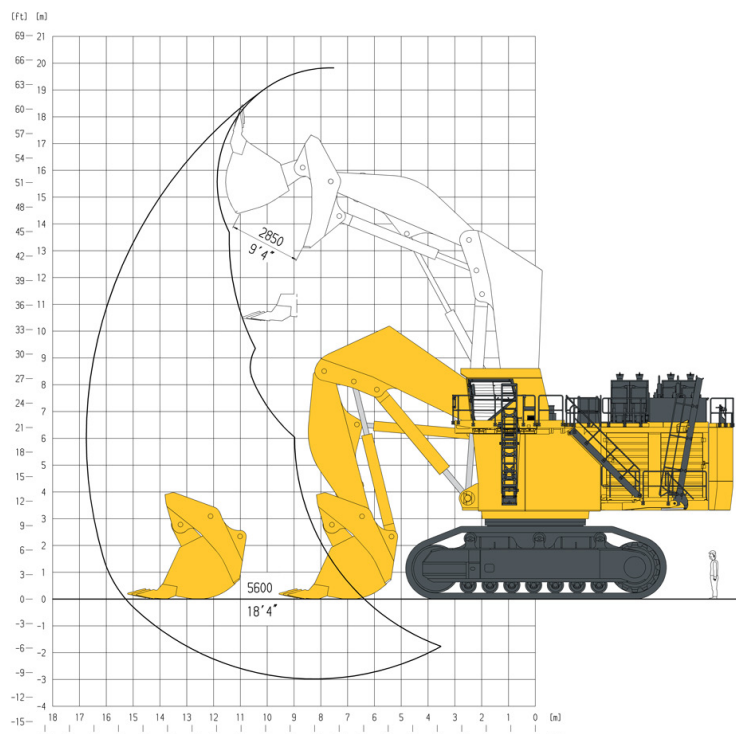
|                      |                                                  |
|----------------------|--------------------------------------------------|
| 29 m³ (standard)     | 29 m³ (37.9 yd³)                                 |
| Width                | 4 816 mm (15.8 ft.)                              |
| Teeth                | 6                                                |
| Wear package         | Heavy duty                                       |
| GET system           | Hensley XS 644*<br>*(further systems on request) |
| Max material density | 1.8 t/m³ (3,034 lb/yd³)                          |

## Backhoe attachment

|                                   |                         |
|-----------------------------------|-------------------------|
| Boom                              | 11 000 mm (36.1 ft.)    |
| Stick                             | 5 100 mm (16.7 ft.)     |
| Break-out force (ISO)             | 1 516 kN (340,810 lbf.) |
| Tear-out force (ISO)              | 1 326 kN (298,097 lbf.) |
| Max digging height                | 15 330 mm (50.3 ft.)    |
| Max dumping height                | 9 730 mm (31.9 ft.)     |
| Max digging depth                 | 8 720 mm (28.6 ft.)     |
| Max digging reach                 | 20 000 mm (65.6 ft.)    |
| Max digging reach at ground level | 19 050 mm (62.5 ft.)    |

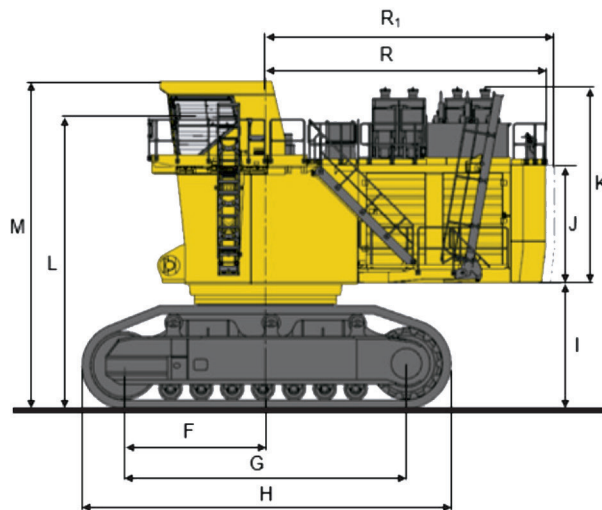
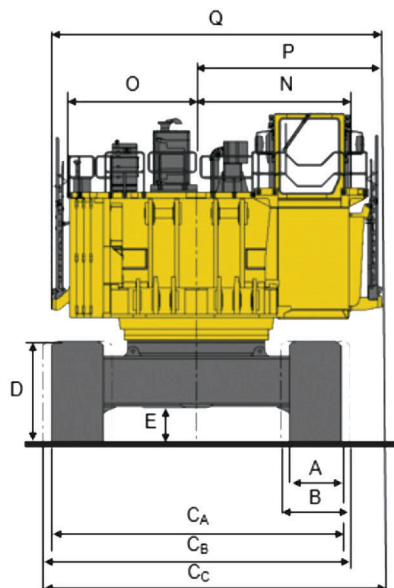
## Backhoe capacities

|                      |                                                  |
|----------------------|--------------------------------------------------|
| 29 m³ (standard)     | 29 m³ (37.9 yd³)                                 |
| Width                | 4 661 mm (15.3 ft.)                              |
| Teeth                | 5                                                |
| Wear package         | Heavy duty                                       |
| GET system           | Hensley XS 644*<br>*(further systems on request) |
| Max material density | 1.8 t/m³ (3,034 lb/yd³)                          |



## Dimensions

|                |                         |
|----------------|-------------------------|
| A              | 1 350 mm (4 ft. 5 in)   |
| B              | 1 800 mm (5 ft. 11 in)  |
| C <sub>A</sub> | 7 540 mm (24 ft. 9 in)  |
| C <sub>B</sub> | 7 990 mm (27 ft. 9 in)  |
| C <sub>C</sub> | 8 842 mm (26 ft. 3 in)  |
| D              | 2 715 mm (8 ft. 11 in)  |
| E              | 995 mm (3 ft. 3 in)     |
| F              | 3 712 mm (12 ft. 2 in)  |
| G              | 7 424 mm (24 ft. 4 in)  |
| H              | 9 720 mm (31 ft. 11 in) |
| I              | 3 325 mm (10 ft. 11 in) |
| J              | 3 100 mm (10 ft. 2 in)  |
| K              | 5 160 mm (16 ft. 11 in) |
| L              | 7 884 mm (25 ft. 10 in) |
| M              | 8 620 mm (28 ft. 3 in)  |
| N              | 3 970 mm (13 ft.)       |
| O              | 3 330 mm (10 ft. 11 in) |
| P              | 4 847 mm (15 ft. 11 in) |
| Q              | 8 630 mm (28 ft. 4 in)  |
| R              | 7 370 mm (24 ft. 2 in)  |
| R <sub>1</sub> | 7 600 mm (24 ft. 11 in) |



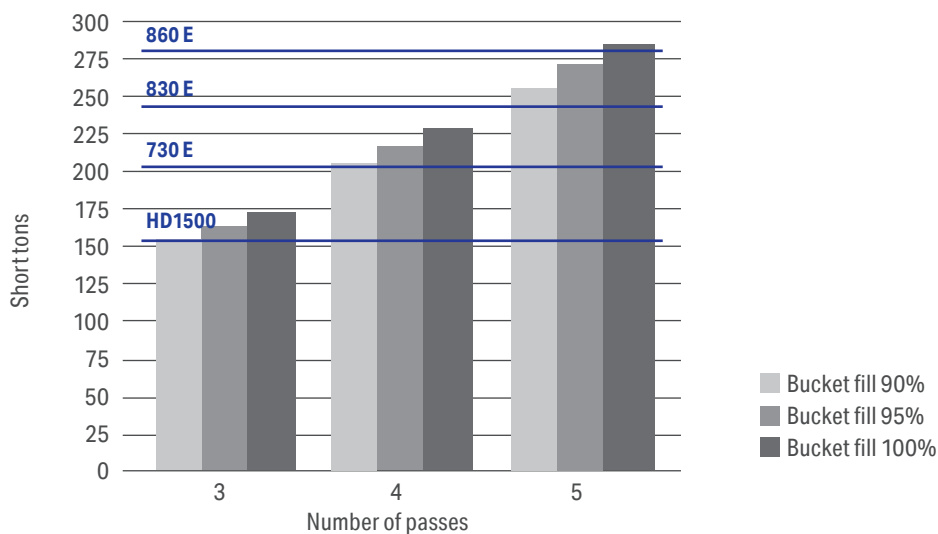
### Front shovel operating weights

|                                  |                         |
|----------------------------------|-------------------------|
| Boom dimensions                  | 7 600 mm (24 ft. 1 in)  |
| Stick dimensions                 | 5 600 mm (18 ft. 4 in)  |
| Standard bucket                  | 29 m³ (38 yd³)          |
| Shoe width and weight (1 350 mm) | 1 350 mm (53 ft.)       |
| Ground pressure                  | 23.7 N/cm² (34.4 psi)   |
| Operating weight                 | 537 MT (1,183,882 lbs.) |
| Shoe width and weight (1 800 mm) | 1 800 mm (71 ft.)       |
| Ground pressure                  | 18.3 N/cm² (26.5 psi)   |
| Operating weight                 | 551 MT (1,214,747 lbs.) |

### Backhoe operating weights

|                                  |                         |
|----------------------------------|-------------------------|
| Boom dimensions                  | 11 000 mm (36 ft. 1 in) |
| Stick dimensions                 | 5 100 mm (16 ft. 9 in)  |
| Standard bucket                  | 29 m³ (38 yd³)          |
| Shoe width and weight (1 500 mm) | 1 350 mm (53 ft.)       |
| Ground pressure                  | 23.9 N/cm² (34.7 psi)   |
| Operating weight                 | 542 MT (1,194,905 lbs.) |
| Shoe width and weight (1 900 mm) | 1 800 mm (71 ft.)       |
| Ground pressure                  | 18.4 N/cm² (26.7 psi)   |
| Operating weight                 | 556 MT (1,222,577 lbs.) |

## PC5500-11 Truck shovel match



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