

# KOMATSU®

## HB365LC-3

Tier 4 Final Engine

### Hybrid

#### HYBRID HYDRAULIC EXCAVATOR

# HB365LC



Photos may include optional equipment.

#### NET HORSEPOWER

269 HP @ 1950 rpm  
201 kW @ 1950 rpm

#### OPERATING WEIGHT

81,791–85,495 lb  
37180–38780 kg

#### BUCKET CAPACITY

0.89–2.56 yd<sup>3</sup>  
0.68–1.96 m<sup>3</sup>

# WALK-AROUND

HB365LC-3



Photos may include optional equipment.

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## HIGH PRODUCTION & LOW FUEL CONSUMPTION

Hybrid excavator technology provides fast and responsive swing. When swinging, all available hydraulic power is sent to boom, arm and bucket for improved cycle time and high production.

The Hybrid energy conservation system combined with Tier 4 Final technology provides up to 20% fuel savings compared to the non-hybrid excavator design.



A powerful **Komatsu SAA6D114E-6 engine** provides a net output of 201 kW **269 HP**. This engine is EPA Tier 4 Final emissions certified.

**Temperature controlled fan clutch** helps improve fuel efficiency and lower sound levels.

An **ultra low idle speed** and Komatsu hybrid technology work together to help reduce fuel consumption up to 20%.

**DEF (Diesel Exhaust Fluid) tank and pump** are separated and located for easy service access. DEF system components are heated for operation in cold temperatures.

**Variable Geometry Turbocharger (VGT)** uses a hydraulic actuator to provide optimum air flow under all speed and load conditions.

**Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR) system** reduce particulate matter and NOx while providing automatic regeneration that does not interfere with daily operation.

**Large displacement high efficiency pumps** helps provide high flow output at lower engine speed, improving efficiency.

**Electrically Driven Swing Motor** powered by a Komatsu Ultra Capacitor provides high swing power and speed allowing oil flow, which would be used for swing, to be dedicated to the boom, arm, and bucket functions.

**Engine driven generator** charges the Komatsu ultra capacitor when required and can function as an electric motor to assist in engine response from ultra low idle.

**Six working modes** are designed to match engine speed, pump delivery and system pressure to a wide variety of applications.

**Two boom mode settings** provide power mode for maximum digging force or smooth mode for fine grading operations.

**Komatsu's Closed Center Load Sensing (CLSS)** hydraulic system provides quick response and smooth operation to maximize productivity.

### KOMTRAX®

The KOMTRAX® telematics system is standard on Komatsu equipment with no subscription-fee's throughout the life of the machine. Using the latest wireless technology, KOMTRAX® transmits valuable information such as location, utilization, and maintenance records to a PC or smartphone app. Custom machine reports are provided for identifying machine efficiency and operating trends. KOMTRAX® also provides advanced machine troubleshooting capabilities by continuously monitoring machine health.

### Large LCD color monitor:

- 7" high resolution display
- Provides "Ecology Guidance" for fuel efficient operation
- Enhanced attachment control

### Peace of Mind

The hybrid power train is covered by a 5 year / 7,000 hour warranty.

**Rearview monitoring system (standard)** displays video of area behind the machine together with machine gauges on the large LCD monitor panel.

### Enhanced working environment

- High back, heated air suspension operator seat with adjustable armrests
- Climate control system automatically adjusts heating and cooling for comfortable operator environment.
- Integrated ROPS cab design (ISO 12117-2)
- Cab meets ISO Level 1 Operator Protective Guard (OPG) top guard (ISO 10262)
- Standard pattern change valve to switch from ISO to BH control pattern
- Aux jack and (2) 12V power outlets

### Komatsu designed and manufactured components

**Handrails (standard)** located on the machine upper structure provide a convenient work area in front of the engine.

**Battery disconnect switch** allows a technician to disconnect the power supply before servicing the machine.

**Heavy duty boom** design with large one piece castings provide increased strength and durability.

**Komatsu Auto Idle and Auto Idle Shutdown** systems helps reduce nonproductive engine idle time and reduces operating costs.

**Operator Identification System** scan track key machine operation and application information for up to 100 individual ID codes and provide information through KOMTRAX®.

# PERFORMANCE FEATURES

## KOMATSU ENGINE TECHNOLOGIES

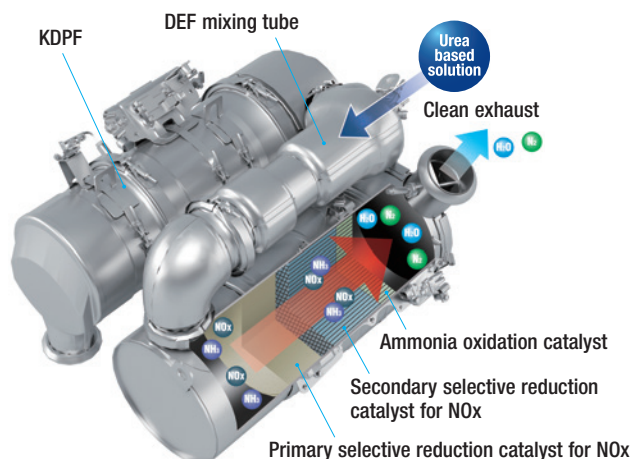
### Komatsu's Emission Regulations-compliant Engine

Regulations effective in 2014 require the reduction of NOx emissions to one tenth or below from the preceding regulations. In addition to refining the Tier 4 Interim technologies, Komatsu has developed a new Selective Catalytic Reduction (SCR) device in-house.

### Technologies Applied to New Engine

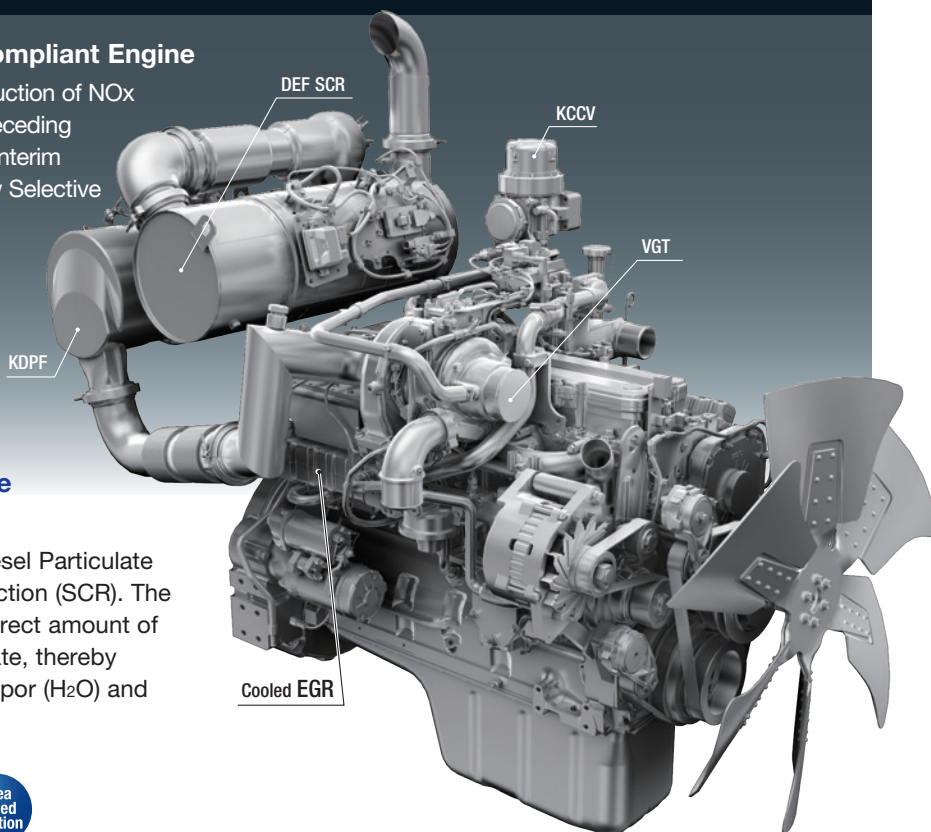
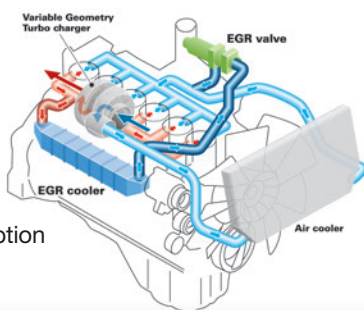
#### Heavy-duty aftertreatment system

This new system combines a Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR). The SCR NOx reduction system injects the correct amount of Diesel Exhaust Fluid (DEF) at the proper rate, thereby decomposing NOx into non-toxic water vapor (H<sub>2</sub>O) and nitrogen gas (N<sub>2</sub>).



#### Heavy-duty cooled Exhaust Gas Recirculation (EGR) system

The system recirculates a portion of exhaust gas into the air intake and lowers combustion temperatures, thereby reducing NOx emissions. EGR gas flow has been decreased for Tier 4 Final with the addition of SCR technology. The system achieves a dynamic reduction of NOx, while helping reduce fuel consumption below Tier 4 Interim levels.

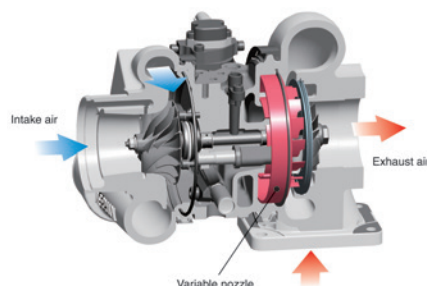


#### Advanced Electronic Control System

The electronic control system performs high-speed processing of all signals from sensors installed in the vehicle providing total control of equipment in all conditions of use. Engine condition information is displayed via an on-board network to the monitor inside the cab, providing necessary information to the operator. Additionally, managing the information via KOMTRAX helps customers keep up with required maintenance.

#### Variable Geometry Turbocharger (VGT) system

The VGT system features proven Komatsu design hydraulic technology for variable control of air-flow and supplies optimal air according to load conditions. The upgraded version provides better exhaust temperature management.





## Komatsu Auto Idle

Komatsu auto idle automatically reduces engine RPM after 4 seconds of work equipment inactivity to reduce unnecessary fuel consumption and exhaust emissions.

## Komatsu Auto Idle Shutdown

Komatsu auto idle shutdown automatically shuts the engine down after idling for a set period of time to reduce unnecessary fuel consumption and exhaust emissions. The amount of time before the engine is shutdown can be easily programmed from 5 to 60 minutes.

## Working Modes Selectable

### Ecology Guidance

### Ecology Gauge & Fuel Consumption Gauge

### Idling Caution

### Increased Work Efficiency

#### Large digging force

With the one-touch Power Max. function, digging force is increased for 8.5 seconds of operation.

#### Maximum arm crowd force (ISO 6015)

160 kN(16.3t) ➡ **171 kN(17.4t)** **7% UP**  
(With Power Max.)

#### Maximum bucket digging force (ISO 6015)

212 kN(21.6t) ➡ **227 kN(23.1t)** **7% UP**  
(With Power Max.)

Measured with Power Max. function, 3185 mm arm and ISO 6015 rating

#### Faster arm cycle speeds

Two return hoses improve arm cylinder hydraulic flow for faster arm out performance.

#### Two-mode settings for boom

- Smooth boom mode reduces boom down force for working on hard surfaces or for hydraulic hammer operation.
- Power boom mode maximizes digging force for more effective excavating

#### Lifting mode

When the Lifting mode is selected, lifting capacity is increased 7% by raising hydraulic pressure.



# PERFORMANCE FEATURES

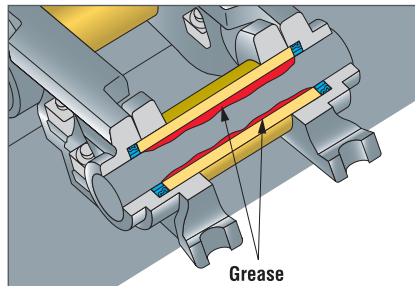
## Drawbar Pull

The Komatsu designed final drives and undercarriage provide high drawbar pull for good maneuverability and performance when working on adverse grades or soft ground.



## Grease Sealed Track

The HB365LC-3 uses grease sealed tracks for extended undercarriage life.



## Large Displacement High Efficiency Pump

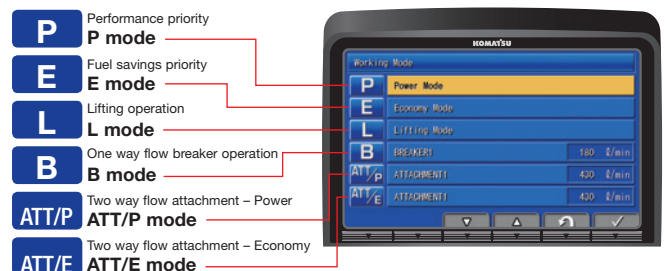
Large displacement hydraulic implement pumps provide high flow output at lower engine RPM as well as operation at the most efficient engine speed.



## Working Mode Selection

The HB365LC-3 excavator is equipped with six working modes (P, E, L, B, ATT/P and ATT/E). Power Mode provides improved hydraulic power and faster cycle times for improved performance in demanding applications. Each mode is designed to match engine speed, pump flow, and system pressure to the application. The HB365LC-3 features an attachment mode (ATT/E) that allows operators to run attachments while in Economy mode.

Working Mode	Application	Advantage
<b>P</b>	Power Mode	•Maximum production, power & multifunction
<b>E</b>	Economy Mode	•Good cycle times with reduced fuel consumption
<b>L</b>	Lifting Mode/ Fine Control	•Increased lifting power & fine control
<b>B</b>	Breaker Mode	•One way flow for hydraulic breaker operation
<b>ATT/P</b>	Attachment Power Mode	•Two way flow with maximum power
<b>ATT/E</b>	Attachment Economy Mode	•Two way flow with most efficient fuel economy



## High Rigidity Work Equipment

Booms and arms are constructed with thick plates of high tensile strength steel. In addition, these structures are designed with large cross sectional areas and large one piece castings in the boom foot, the boom tip, and the arm tip. The result is work equipment that exhibits long term durability and high resistance to bending and torsional stress. A standard HD boom design provides increased strength and reliability.





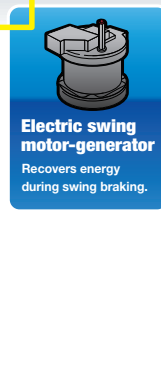
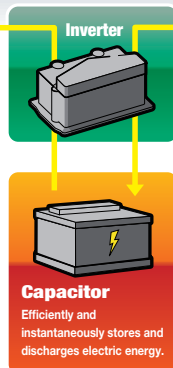
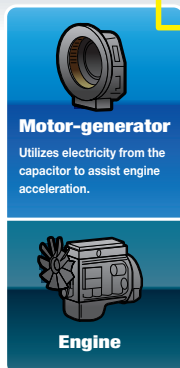
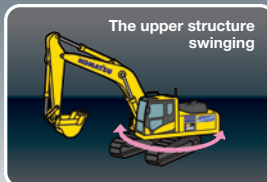
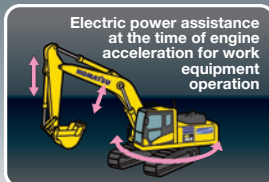
## HYBRID TECHNOLOGY

### KOMATSU HYBRID SYSTEM

#### Reliable and Durable Hybrid Components Developed and Manufactured by Komatsu

The unique Komatsu hybrid system uses an electric swing motor-generator to capture and regenerate swing energy as the upper structure slows down and converts it into electric energy. The regenerated energy is stored in a high performance capacitor and used to provide power to the swing motor when swinging. The capacitor also powers an engine mounted motor-generator to assist the engine when it needs to accelerate. The hybrid system reduces fuel consumption significantly. Most components of the system are developed and manufactured by Komatsu.

\*: Except capacitor cells



- ① Motor-generator
- ② Electric swing motor-generator
- ③ Inverter and capacitor

#### Ultra Capacitor Assembly

The ultra-capacitor assembly includes an inverter that switches the AC electricity from the generator motor and swing motor into DC electricity for storage in the capacitor. Since capacitors require migration of electrons and ions for charging and discharging, they can transfer power much faster than batteries, which use chemical reactions to produce electricity. The industrial quality designed inverter and capacitor provide long service life, and require no periodic maintenance.

#### Easy-to-understand Hybrid Operation Monitor Screen

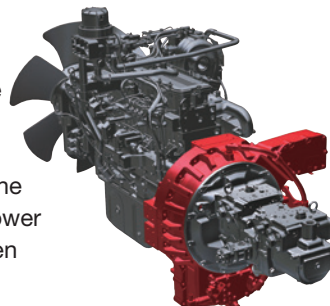
##### Energy management screen

The hybrid system operating status can be easily displayed on the monitor to show how energy is flowing through the system components which include capacitor charging/discharging and engine assist by the generator/motor.



#### Motor-generator

A motor-generator is positioned between the engine and hydraulic pumps to assist in rapid engine response from ultra low idle when required. The generator produces electric power and charges the capacitor when required.



#### Electric swing motor-generator

An electric swing motor-generator recovers energy during swing braking. The motor-generator also accelerates the swing of the upper structure more efficiently than a conventional hydraulic motor and provides excellent swing performance. Dedicated lubrication and cooling systems are used for reliability and durability.



#### Hybrid system temperature gauge

A hybrid system temperature gauge is included in the main display screen along with engine and hydraulic temperature gauges. It displays the hybrid system temperature and allows the operator to monitor the system status at a glance.



Hybrid system temperature gauge.

# HYBRID TECHNOLOGY

The Leading technology Komatsu Hybrid System, Tier 4 Final engine design, and an integrated complete Vehicle Control System Reduce Fuel Consumption Even Further.

## Fuel consumption

Reduced by up to **20%**  
(vs PC360LC-11)

Based on typical work pattern collected via KOMTRAX.

## Viscous Fan Clutch

A temperature controlled viscous fan clutch improves engine efficiency and reduces engine power requirements when operating in cooler temperatures.

## External noise level

vs PC360LC-11

Reduced by **4dB (A)**

Based on ISO 6395 dynamic test.



HB365LC-3



# GENERAL FEATURES

## ROPS CAB STRUCTURE

### ROPS Cab (ISO 12117-2)

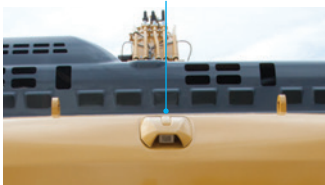
The machine is equipped with a ROPS cab that conforms to ISO 12117-2 for excavators as standard equipment. It also satisfies the requirements for Level 1 Operator Protective Guard (OPG) and top guard (ISO 10262).



## Rear View Monitoring System

A rear view monitoring system display has a rear view camera image that is continuously displayed together with the gauges and important vehicle information. This enables the operator to carry out work while easily checking the surrounding area.

Rear view camera

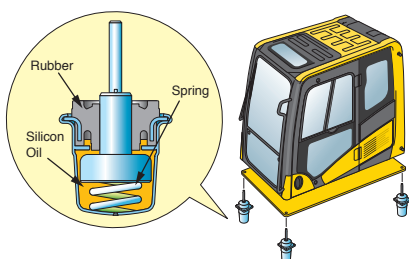


Rear view image on monitor



## Low Vibration with Viscous Cab Mounts

The HB365LC-3 uses viscous mounts for the cab that incorporate a longer stroke and the addition of a spring. The cab damper mounting combined with a high rigidity deck reduces vibration at the operator's seat.



## General Features

**Secondary engine shut down switch** at base of seat to shutdown the engine.



**Seat belt caution indicator**



**Large mirrors**

**Slip-resistant plates**

**Thermal and fan guards**

**Pump/engine compartment partition**

**Travel alarm**

**Lock lever**

**Retractable seat belt**

**Tempered & tinted glass**

**Large cab entrance step**

**Left and right side handrails**



# WORKING ENVIRONMENT



## Comfortable Working Space

### Wide spacious cab

Wide spacious cab includes seat with reclining backrest. The seat height and position are easily adjusted using a pull-up lever. You can set the appropriate operational posture of arm-rest together with the console. Reclining the seat further enables you to place it into the fully flat state with the head-rest attached.

### Arm rest with simple height adjustment

A knob and plunger on the armrests allows easy height adjustment without the use of tools.



### Low vibration with cab damper mounting

### Automatic climate control

### Pressurized cab with cab air filter

### Auxiliary input jack

Connecting a regular audio device to the auxiliary jack allows the operator to hear the sound from the speakers installed in the cab.



## Standard Equipment

### Sliding window glass (left side)



### Remote intermittent wiper with windshield washer



### Opening & closing skylight



### Defroster (conforms to the ISO standard)



### AM/FM stereo radio & ashtray



### Cigarette lighter



### Magazine box & cup holder



### One-touch storable front window lower glass





## LARGE HIGH RESOLUTION LCD MONITOR



### New Monitor Panel Interface Design

An updated large high resolution LCD color monitor enables accurate and smooth work. The interface has been redesigned to display key machine information in a new user friendly interface. A rear view camera and a DEF level gauge display have been added to the default main screen. The interface has a function that enables the main screen mode to be switched, thus enabling the optimum screen information for the particular work situation to be displayed.

#### Indicators

- |                                    |                                   |
|------------------------------------|-----------------------------------|
| 1 Auto-decelerator                 | 9 Hydraulic oil temperature gauge |
| 2 Working mode                     | 10 Fuel gauge                     |
| 3 Travel speed                     | 11 DEF level gauge                |
| 4 Camera direction display         | 12 DEF level caution lamp         |
| 5 Ecology gauge                    | 13 Service meter, clock           |
| 6 Camera display                   | 14 Fuel consumption gauge         |
| 7 Hybrid system temperature gauge  | 15 Guidance icon                  |
| 8 Engine coolant temperature gauge | 16 Function switches              |

#### Basic operation switches

- |                         |                 |
|-------------------------|-----------------|
| 1 Auto-decelerator      | 4 Buzzer cancel |
| 2 Working mode selector | 5 Wiper         |
| 3 Travel speed selector | 6 Window washer |

### Visual user menu

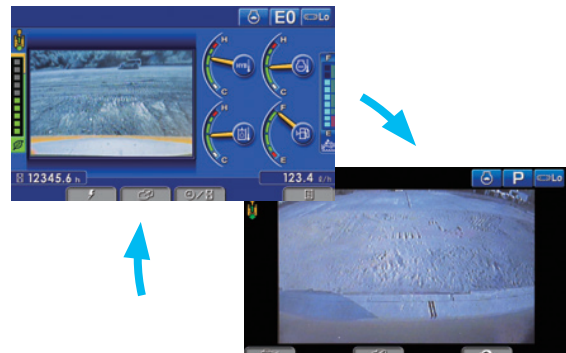
Pressing the F6 key on the main screen displays the user menu screen. The menus are grouped for each function, and use easy-to-understand icons which enable the machine to be operated easily.



- |                                       |                    |
|---------------------------------------|--------------------|
| 1 Energy saving guidance              | 2 Machine settings |
| 3 Aftertreatment devices regeneration | 4 SCR information  |
| 5 Maintenance                         | 6 Monitor setting  |
| 7 Message check                       |                    |

### Switchable Display Modes

The main screen display mode can be changed by pressing the F3 key. Screen images shown are for the standard rear view camera.



# WORKING ENVIRONMENT

## Support Efficiency Improvement

### Ecology guidance

While the machine is operating, ecology guidance pops up on the monitor screen to notify the operator of the status of the machine in real time.

### Ecology gauge & fuel consumption gauge

The monitor screen is provided with an ecology gauge and also a fuel consumption gauge which is displayed continuously. In addition, the operator can set any desired target value of fuel consumption (within the range of the green display), enabling the machine to be operated with better fuel economy.



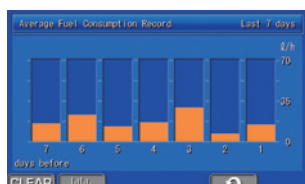
Ecology gauge Ecology guidance Fuel consumption gauge

### Operation record, fuel consumption history, and ecology guidance record

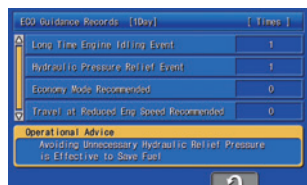
The ecology guidance menu enables the operator to check the operation record, fuel consumption history and ecology guidance record from the ecology guidance menu, using a single touch, thus assisting operators with reducing total fuel consumption.



Operation record



Fuel consumption history



Ecology guidance record

## KomVision (Optional)

Images from 4 camera's are combined to display a "birds eye" view of the area around the machine for improved operator awareness. A second display with selectable individual camera views of the left, rear, and right sides is easily changed using the F4 button. A red line continuously shows where the counterweight will be during swinging and a camera icon indicates which camera is being displayed on individual camera display screen.





# MAINTENANCE FEATURES





# MAINTENANCE FEATURES

## Large capacity air cleaner

The larger air cleaner can extend air cleaner life during long-term operation and helps prevent early clogging, and resulting power loss. A radial seal design is used for reliability.



## Engine Access

Large rear opening hood provides excellent maintenance and service access to key engine components.



## Fuel Filters

Large high-efficiency fuel filter and pre-filter with water separator removes contaminants from fuel for improved fuel injection system life. Built-in priming pump simplifies maintenance.



High efficiency fuel filter      Fuel pre-filter (with water separator)

## Easy access to engine oil filter and fuel drain valve

Engine oil filter and fuel drain valve are remote mounted to improve accessibility.



## Battery disconnect switch

A standard battery disconnect switch allows a technician to disconnect the power supply and lock out before servicing the machine.



## Air conditioner filter

The air conditioner filter can be removed and installed without the use of tools for easy filter maintenance.

## Washable cab floormat

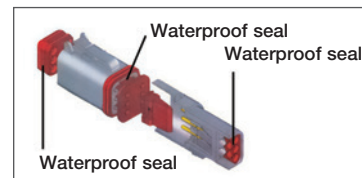
## Sloping track frame

## Long-life oils, filters

Engine oil & engine oil filter	every 500 hours
Hydraulic oil	every 5000 hours
Hydraulic oil filter	every 1000 hours

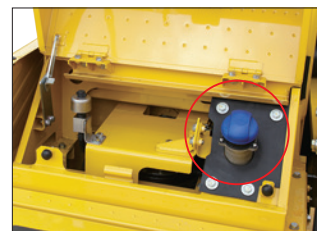
## Electrical connectors

Sealed DT-type electrical connectors provide high reliability, water and dust resistance.



## Diesel Exhaust Fluid (DEF) tank

A large tank volume extends operating time before refilling and is installed on the right front platform with a sight gauge for easy service. DEF tank and pump are separated for improved service access.



## Maintenance Information

### "Maintenance time caution lamp" display

When the remaining time to maintenance becomes less than 30 hours\*, a maintenance time monitor appears. Pressing the F6 key switches the monitor to the maintenance screen.

\* : The setting can be changed within the range between 10 and 200 hours.



Maintenance screen

### Manual Stational Regeneration

Under most conditions, active regeneration will occur automatically with no effect on machine operation. In case the operator needs to disable active regeneration or initiate a manual stationary regeneration, this can be easily accomplished through the monitor panel. A soot level indicator is displayed to show how much soot is trapped in the KDPF.

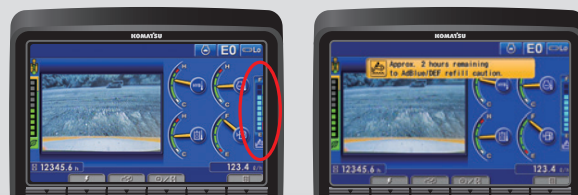
Soot level indicator



Aftertreatment device regeneration screen

### Supports the DEF level and refill timing

The DEF level gauge is displayed continuously on the right side of the monitor screen. In addition, when DEF level is low, DEF low level guidance messages appear in pop up displays to inform the operator in real time.



DEF level gauge

DEF low level guidance



# KOMTRAX EQUIPMENT MONITORING

GET THE WHOLE STORY WITH  
**KOMTRAX®**

## ✓ WHAT

- KOMTRAX is Komatsu's remote equipment monitoring and management system
- KOMTRAX **continuously monitors and records** machine health and operational data
- Information such as fuel consumption, utilization, and a detailed history **lowering owning and operating cost**

## ✓ WHEN

- Know when your machines are **running or idling** and make decisions that will improve your fleet utilization
- Detailed movement records ensure you know when and where your equipment is moved
- Up to date records allow you to **know when maintenance is due** and help you plan for future maintenance needs

## ✓ WHERE

- KOMTRAX data **can be accessed virtually anywhere** through your computer, the web or your smart phone
- Automatic alerts keep fleet managers up to date on the latest machine notifications

## ✓ WHY

- Knowledge is power - **make informed decisions** to manage your fleet better
- Knowing your idle time and fuel consumption will help maximize your machine efficiency
- **Take control of your equipment** - any time, anywhere

## ✓ WHO

- KOMTRAX is **standard** equipment on all Komatsu construction products



**KOMTRAX®**

For construction and compact equipment.

**KOMTRAX Plus®**

For production and mining class machines.

# KOMATSU PARTS & SERVICE SUPPORT



## KOMATSU CARE

### Program Includes:

\*The HB365LC-3 comes standard with complimentary factory scheduled maintenance for the first 3 Years or 2,000 Hours, whichever comes first.

### Planned Maintenance Intervals at:

500/1000/1500/2000 hour intervals. (250 hr. initial interval for some products) Complimentary Maintenance Interval includes: Replacement of Oils & Fluid Filters with genuine Komatsu Parts, 50-Point inspection, Komatsu Oil & Wear Analysis Sampling (KOWA) / Travel & Mileage (distance set by distributor; additional charges may apply)

### Benefits of Using Komatsu CARE

- Assurance of Proper Maintenance with OEM Parts & Service
- Increased Uptime & Efficiency
- Factory Certified Technicians Performing Work
- Cost of Ownership Savings
- Transferable Upon Resale

### Complimentary KDPF Exchange

The HB365LC-3 comes standard with 2 Complimentary KDPF Exchange Units for the first 5 Years (unlimited hours)

Complimentary KDPF Exchange Units are provided at: The suggested KDPF Exchange Units Service Intervals of 4,500 hours and 9,000 hours during the first 5 years. End User must have authorized Komatsu distributor perform the removal and installation of the KDPF.

### Complimentary SCR System Maintenance

The HB365LC-3 also includes 2 factory recommended services of the Selective Catalytic Reduction (SCR) Diesel exhaust fluid (DEF) system during the first 5 years—no hour limit—including: Factory recommended DEF tank flush and strainer cleaning at 4,500 hours and 9,000 hours.

Interval PM	500	1000	1500	2000
KOWA SAMPLING – (Engine, Hydraulics, Swing Circle, L & R Final Drives)	✓	✓	✓	✓
LUBRICATE MACHINE	✓	✓	✓	✓
LUBRICATE SWING CIRCLE	✓	✓	✓	✓
CHECK SWING PINION GREASE LEVEL AND ADD, WHEN NECESSARY	✓	✓	✓	✓
CHANGE ENGINE OIL	✓	✓	✓	✓
REPLACE ENGINE OIL FILTER	✓	✓	✓	✓
REPLACE FUEL PRE-FILTER	✓	✓	✓	✓
REPLACE AC FRESH & RECIRC AIR FILTERS	✓	✓	✓	✓
CLEAN AIR CLEANER ELEMENT	✓	✓	✓	✓
DRAIN SEDIMENT FROM FUEL TANK	✓	✓	✓	✓
COMPLETE 50 POINT INSPECTION FORM; LEAVE PINK COPY WITH CUSTOMER OR IN CAB	✓	✓	✓	✓
RESET MONITOR PANEL MAINTENANCE COUNTER FOR APPROPRIATE ITEMS	✓	✓	✓	✓
REPLACE HYDRAULIC TANK BREATHER ELEMENT		✓		✓
REPLACE DEF TANK BREATHER ELEMENT		✓		✓
REPLACE FUEL MAIN FILTER		✓		✓
CHANGE SWING MACHINERY OIL		✓		✓
CHANGE ELECTRIC SWING MOTOR CASE OIL		✓		✓
REPLACE HYDRAULIC OIL FILTER ELEMENT		✓		✓
CHANGE MOTOR-GENERATOR CASE OIL		✓		✓
CLEAN MOTOR-GENERATOR CASE OIL FILTER		✓		✓
CLEAN HYDRAULIC TANK STRAINER				✓
CHANGE FINAL DRIVE OIL				✓
REPLACE KCCV FILTER ELEMENT				✓
REPLACE DEF PUMP FILTER				✓
CLEAN ELECTRIC SWING MOTOR COOLING OIL FILTER				✓
FACTORY TRAINED TECHNICIAN LABOR	✓	✓	✓	✓
2 KDPF Exchanges at 4,500 Hrs and 9,000 Hrs.				
2 SCR System Maintenance Services at 4,500 Hrs. and 9000 Hrs.				

## Komatsu CARE® – Extended Coverage

- Extended Coverage can provide peace of mind by protecting customers from unplanned expenses that effect cash flow
- Purchasing extended coverage locks-in the cost of covered parts and labor for the coverage period and helps turn these into fixed costs



## Komatsu Parts Support

- 24/7/365 to fulfill your parts needs
- 9 parts Distribution Centers strategically located across the U.S. and Canada
- Distributor network of more than 300 locations across U.S. and Canada to serve you
- Online part ordering through Komatsu eParts
- Remanufactured components with same-as-new warranties at a significant cost reduction



## Komatsu Oil and Wear Analysis (KOWA)

- KOWA detects fuel dilution, coolant leaks, and measures wear metals
- Proactively maintain your equipment
- Maximize availability and performance
- Can identify potential problems before they lead to major repairs
- Reduce life cycle cost by extending component life

\* Certain exclusions and limitations apply. Refer to the customer certificate for complete program details and eligibility. Komatsu® and Komatsu Care® are registered trademarks of Komatsu Ltd. Copyright 2017 Komatsu America Corp.



# SPECIFICATIONS



## ENGINE

Model.....Komatsu SAA6D114E-6\*  
Type.....Water-cooled, 4-cycle, direct injection  
Aspiration.....Turbocharged, aftercooled, cooled EGR  
Number of cylinders..... 6  
Bore..... 114 mm **4.49"**  
Stroke.....144.5 mm **5.69"**  
Piston displacement..... 8.85 ltr **540 in³**  
Horsepower:  
SAE J1995.....Gross 202 kW **271 HP**  
ISO 9249 / SAE J1349.....Net 201 kW **269 HP**  
Fan at maximum speed..... Net 197 kW **251 HP**  
Rated rpm..... 1950  
Fan drive method for radiator cooling..... Mechanical with viscous fan clutch  
Governor.....All-speed control, electronic  
\*EPA Tier 4 Final emissions certified



## HYDRAULICS

Type ..HydrauMind (Hydraulic Mechanical Intelligence) system, closed-center system with load sensing valves and pressure compensated valves  
Number of selectable working modes ..... 6  
Main pump:  
Type.....Variable displacement piston type  
Pumps for.....Boom, arm, bucket, and travel circuits  
Maximum flow ..... 535 ltr/min **141.3 gal/min**  
Supply for control circuit..... Self-reducing valve  
Hydraulic motors:  
Travel..... 2 x axial piston motors with parking brake  
Swing ..... 1 x axial piston motor with swing holding brake  
Relief valve setting:  
Implement circuits ..... 38.2 MPa 390 kg/cm² **5,540 psi**  
Travel circuit..... 38.2 MPa 390 kg/cm² **5,540 psi**  
Pilot circuit..... 3.2 MPa 33 kg/cm² **470 psi**  
Hydraulic cylinders:  
(Number of cylinders – bore x stroke x rod diameter)  
Boom 2–140 mm x 1480 mm x 100 mm **5.5" x 58.3" x 3.9"**  
Arm .... 1–160 mm x 1825 mm x 110 mm **6.3" x 71.9" x 4.3"**  
Bucket .....for 3200 m **10'5"** and 4000 mm **13'2"** Arms  
..... 1–140 mm x 1285 mm x 100 mm **5.5" x 50.6" x 3.9"**



## DRIVES AND BRAKES

Steering control.....Two levers with pedals  
Drive method ..... Fully hydrostatic  
Maximum drawbar pull ..... 290 kN 29570 kg **65,191 lb**  
Gradeability..... 70%, 35°  
Maximum travel speed: High..... 5.5 km/h **3.4 mph**  
(Auto-shift) Mid..... 4.5 km/h **2.8 mph**  
(Auto-shift) Low ..... 3.2 km/h **2.0 mph**  
Service brake.....Hydraulic lock  
Parking brake.....Mechanical disc brake



## SWING SYSTEM

Drive method ..... Electric drive  
Swing reduction.....Planetary gear  
Swing circle lubrication.....Grease-bathed  
Service brake.....Electric brake  
Holding brake/Swing lock..... Mechanical disc brake  
Swing speed..... 9.5 rpm  
Swing torque..... 11386 kg•m **82,313 ft lbs**



## UNDERCARRIAGE

Center frame..... X-frame  
Track frame.....Box-section  
Track type ..... Sealed  
Track adjuster .....Hydraulic  
Number of shoes (each side)..... 48  
Number of carrier rollers (each side).....2  
Number of track rollers (each side) .....8



## COOLANT & LUBRICANT CAPACITY (REFILLING)

Fuel tank..... 605 ltr **159.8 U.S. gal**  
Coolant (engine)..... 42.0 ltr **11.1 U.S. gal**  
Ultra capacitor cooling system ..... 11.7 ltr **3 U.S. gal**  
Engine.....38.5 ltr **10.2 U.S. gal**  
Final drive, each side.....9.0 ltr **2.4 U.S. gal**  
Swing drive .....15.6 ltr **4.12 U.S. gal**  
Swing motor - generator .....3.6 ltr **0.95 U.S. gal**  
Motor-generator.....8.5 ltr **2.24 U.S. gal**  
Hydraulic tank..... 188 ltr **49.7 U.S. gal**  
DEF tank..... 39.2 ltr **10.3 U.S. gal**



## SOUND PERFORMANCE

Exterior – ISO 6395.....101 dB(A)  
Operator – ISO 6396.....69 dB(A)



## OPERATING WEIGHT (APPROXIMATE)

Operating weight including 6500 mm **21'3"** one-piece HD boom, 3185 mm **10'5"** arm, 850 mm **33.5"** track shoes, SAE heaped 1.96 m³ **2.56 yd³** bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

Triple-Grouser	Operating Weight	Ground Pressure (ISO 16754)
700 mm <b>28"</b>	37654 kg <b>83,012 lb</b>	0.62 kg/cm² <b>8.79 psi</b>
800 mm <b>31.5"</b>	38054 kg <b>83,894 lb</b>	0.55 kg/cm² <b>7.77 psi</b>
850 mm <b>33.5"</b>	38254 kg <b>84,335 lb</b>	0.52 kg/cm² <b>7.35 psi</b>

<b>Component Weights</b>	Arm including bucket cylinder and linkage	
	3185 mm <b>10'5"</b> arm assembly	1761 kg <b>3,882 lb</b>
	4020 mm <b>13'2"</b> arm assembly	1988 kg <b>4,383 lb</b>
	One piece HD boom including arm cylinder	
	6500 mm <b>21'3"</b> boom assembly	3135 kg <b>6,912 lb</b>
	Boom cylinders x 2	259 kg <b>571 lb</b>
	Counterweight	6320 kg <b>13,933 lb</b>
	1.96 m³ <b>2.56 yd³</b> TL bucket - <b>54"</b> width...	1554 kg <b>3,425 lb</b>
	Plus one piped boom and arm.....	Add 100 kg <b>220 lb</b>

# SPECIFICATIONS

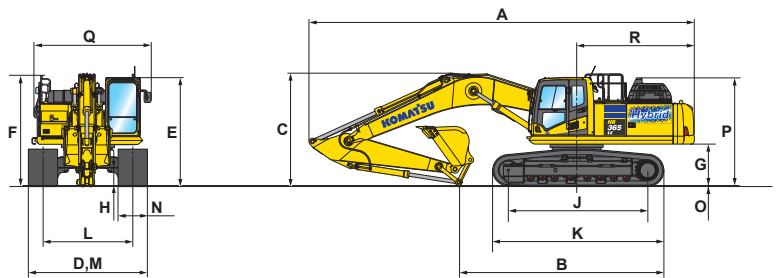
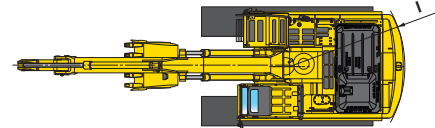


## DIMENSIONS

	Arm Length	3185 mm 10'5"	4020 mm 13'2"
A	Overall length	11145 mm 36'7"	11170 mm 36'8"
B	Length on ground (transport)	5935 mm 19'6"	5475 mm 18'0"
C	Overall height (to top of boom)*	3285 mm 10'9"	3760 mm 12'4"
D	Overall width	3440 mm 11'3"	
E	Overall height (to top of cab)*	3165 mm 10'5"	
F	Overall height (to top of handrail)*	3260 mm 10'8"	
G	Ground clearance, counterweight	1185 mm 3'11"	
H	Ground clearance, minimum	498 mm 1'8"	
I	Tail swing radius	3445 mm 11'4"	
J	Track length on ground	4030 mm 13'3"	
K	Track length	4955 mm 16'3"	
L	Track gauge	2590 mm 8'6"	
M	Width of crawler	3440 mm 11'3"	
N	Shoe width	850 mm 33.5"	
O	Grouser height	36 mm 1.4"	
P	Machine height to top of engine cover	3140 mm 10'4"	
Q	Machine upper width **	3140 mm 10'4"	
R	Distance, swing center to rear end	3405 mm 11'2"	

\* : Including grouser height

\*\* : Including handrail



## BACKHOE BUCKET, ARM AND BOOM COMBINATION

Bucket Type	Bucket							6.5 m (21'3") Boom	
	Capacity	Teeth	Width	Weight	Tip Radius			3.2 m (10'5")	4.0 m (13'2")
Komatsu TL	0.93 m <sup>3</sup> 1.21 yd <sup>3</sup>	4	762 mm 30"	1097 kg 2418 lb	1674 mm 65.9"			●	●
	1.18 m <sup>3</sup> 1.54 yd <sup>3</sup>	4	914 mm 36"	1198 kg 2641 lb	1674 mm 65.9"			●	●
	1.44 m <sup>3</sup> 1.88 yd <sup>3</sup>	5	1067 mm 42"	1325 kg 2921 lb	1674 mm 65.9"			●	●
	1.70 m <sup>3</sup> 2.22 yd <sup>3</sup>	5	1219 mm 48"	1426 kg 3144 lb	1674 mm 65.9"			●	○
	1.96 m <sup>3</sup> 2.56 yd <sup>3</sup>	6	1372 mm 54"	1554 kg 3425 lb	1674 mm 65.9"			○	□
Komatsu HP	0.68 m <sup>3</sup> 0.89 yd <sup>3</sup>	3	610 mm 24"	1022 kg 2254 lb	1674 mm 65.9"			●	●
	0.93 m <sup>3</sup> 1.21 yd <sup>3</sup>	4	762 mm 30"	1178 kg 2598 lb	1674 mm 65.9"			●	●
	1.18 m <sup>3</sup> 1.54 yd <sup>3</sup>	4	914 mm 36"	1358 kg 2993 lb	1674 mm 65.9"			●	●
	1.44 m <sup>3</sup> 1.88 yd <sup>3</sup>	5	1067 mm 42"	1439 kg 3173 lb	1674 mm 65.9"			●	●
	1.70 m <sup>3</sup> 2.22 yd <sup>3</sup>	5	1219 mm 48"	1555 kg 3429 lb	1674 mm 65.9"			●	□
Komatsu HPS	1.96 m <sup>3</sup> 2.56 yd <sup>3</sup>	6	1372 mm 54"	1701 kg 3750 lb	1674 mm 65.9"			□	⊙
	0.68 m <sup>3</sup> 0.89 yd <sup>3</sup>	3	610 mm 24"	1112 kg 2451 lb	1674 mm 65.9"			●	●
	0.93 m <sup>3</sup> 1.21 yd <sup>3</sup>	4	762 mm 30"	1294 kg 2853 lb	1674 mm 65.9"			●	●
	1.18 m <sup>3</sup> 1.54 yd <sup>3</sup>	4	914 mm 36"	1437 kg 3167 lb	1674 mm 65.9"			●	●
	1.44 m <sup>3</sup> 1.88 yd <sup>3</sup>	5	1067 mm 42"	1607 kg 3543 lb	1674 mm 65.9"			●	○
Komatsu HPX	1.70 m <sup>3</sup> 2.22 yd <sup>3</sup>	5	1219 mm 48"	1750 kg 3857 lb	1674 mm 65.9"			○	□
	1.96 m <sup>3</sup> 2.56 yd <sup>3</sup>	6	1372 mm 54"	1921 kg 4236 lb	1674 mm 65.9"			□	⊙
	0.68 m <sup>3</sup> 0.89 yd <sup>3</sup>	3	610 mm 24"	1239 kg 2731 lb	1674 mm 65.9"			●	●
	0.93 m <sup>3</sup> 1.21 yd <sup>3</sup>	4	762 mm 30"	1421 kg 3133 lb	1674 mm 65.9"			●	●
	1.18 m <sup>3</sup> 1.54 yd <sup>3</sup>	4	914 mm 36"	1564 kg 3447 lb	1674 mm 65.9"			●	●
Komatsu HPX	1.44 m <sup>3</sup> 1.88 yd <sup>3</sup>	5	1067 mm 42"	1734 kg 3823 lb	1674 mm 65.9"			●	○
	1.70 m <sup>3</sup> 2.22 yd <sup>3</sup>	5	1219 mm 48"	1877 kg 4137 lb	1674 mm 65.9"			○	□
	1.96 m <sup>3</sup> 2.56 yd <sup>3</sup>	6	1372 mm 54"	2048 kg 4516 lb	1674 mm 65.9"			□	⊙

● - Used with material weights up to 3,500 lb/yd<sup>3</sup> - Quarry/rock/high abrasion applications

□ - Used with material weights up to 2,500 lb/yd<sup>3</sup> - General construction

○ - Used with material weights up to 3,000 lb/yd<sup>3</sup> - Tough digging applications

⊙ - Used with material weights up to 2,000 lb/yd<sup>3</sup> - Light materials applications

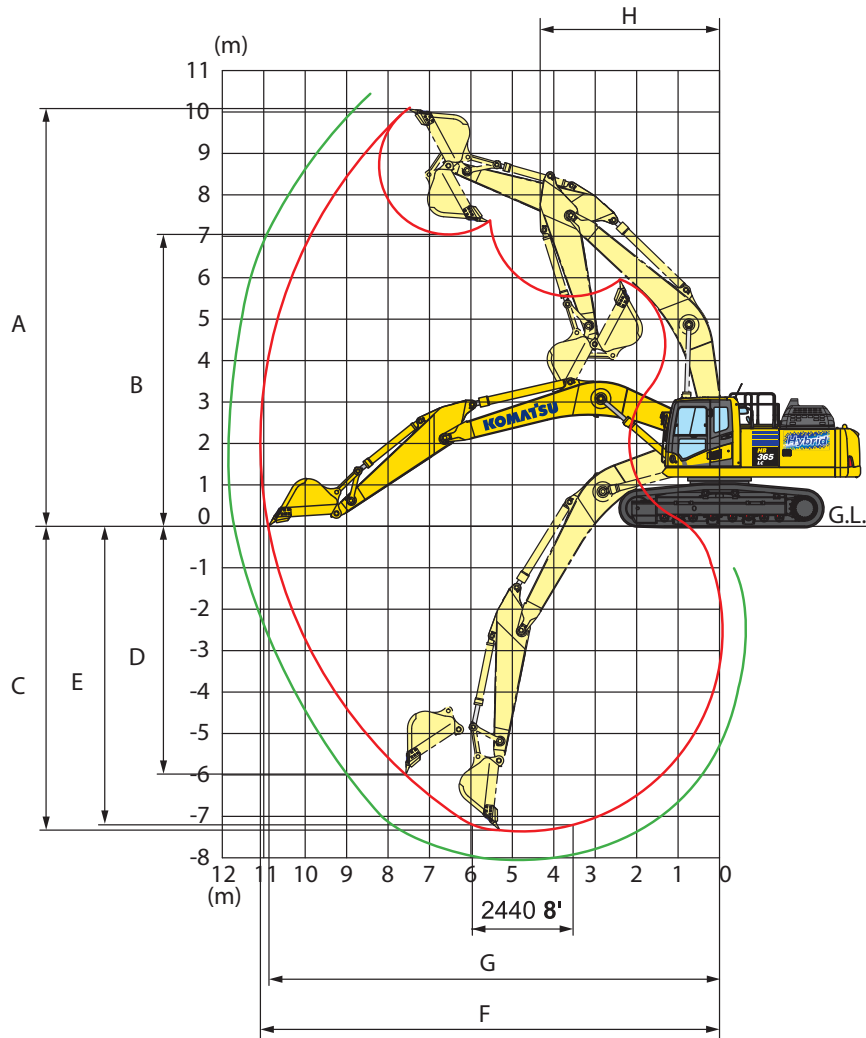
X - Not useable

Komatsu recommends the use of buckets sized to machine capacity. Buckets listed in the table above are sized appropriate to the specified material densities. Buckets exceeding recommended sizes may result in reduced performance





## WORKING RANGE

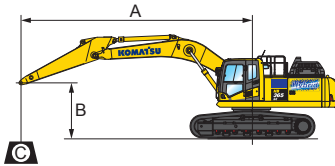


Arm Length		3185 mm	10'5"	4020 mm	13'2"
A	Max. digging height	10210 mm	33'6"	10550 mm	34'7"
B	Max. dumping height	7110 mm	23'4"	7490 mm	24'7"
C	Max. digging depth	7380 mm	24'3"	8180 mm	26'10"
D	Max. vertical wall digging depth	6480 mm	21'3"	7280 mm	23'11"
E	Max. digging depth for 8' level bottom	7180 mm	23'7"	8045 mm	26'5"
F	Max. digging reach	11100 mm	36'5"	11900 mm	39'1"
G	Max. digging reach at ground level	10920 mm	35'10"	11730 mm	38'6"
H	Min. swing radius	4310 mm	14'2"	4320 mm	14'2"
SAE rating	Bucket digging force at power max.	200 kN 20400 kg / 44,970 lb		200 kN 20400 kg / 44,970 lb	
	Arm crowd force at power max.	165 kN 16800 kg / 37,040 lb		139 kN 14200 kg / 31,310 lb	
ISO rating	Bucket digging force at power max.	228 kN 23200 kg / 51,150 lb		227 kN 23100 kg / 50,930 lb	
	Arm crowd force at power max.	171 kN 17400 kg / 38,360 lb		144 kN 14700 kg / 32,410 lb	

# LIFT CAPACITIES



## LIFTING CAPACITY WITH LIFTING MODE

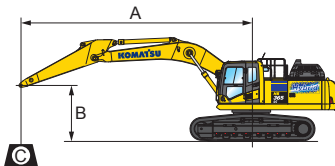


A: Reach from swing center  
B: Bucket hook height  
C: Lifting capacity  
Cf: Rating over front  
Cs: Rating over side  
⊗: Rating at maximum reach

Conditions :  
• 6500 mm 21' 3" one-piece boom  
• Bucket: None  
• Lifting mode: On

Arm: 3185 mm 10'5"		Bucket: None				Shoes: 700 mm 28"				Unit: kg lb	
A	B	3.0 m 10'	4.6 m 15'	6.1 m 20'	7.6 m 25'	9.1 m 30'	MAX				
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.6 m 25'										* 7250	* 7250
6.1 m 20'										* 15900	* 15900
4.6 m 15'										* 7050	* 6390
3.0 m 10'										* 15500	* 14000
1.5 m 5'										* 7100	* 5690
0 m 0'										* 15600	* 12500
-1.5 m -5'										* 7380	* 5340
-3.0 m -10'										* 16200	* 11700
-4.6 m -15'										* 7740	* 5210
-6.1 m -20'										* 17000	* 11500
										* 7910	* 5300
										* 17400	* 11700
										* 8480	* 5660
										* 18700	* 12400
										* 8870	* 6430
										* 19500	* 14100
										* 8870	* 6430
										* 19500	* 14100
										* 8350	* 8170
										* 18400	* 18000

\*Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.



A: Reach from swing center  
B: Bucket hook height  
C: Lifting capacity  
Cf: Rating over front  
Cs: Rating over side  
⊗: Rating at maximum reach

Conditions :  
• 6500 mm 21' 3" one-piece boom  
• Bucket: None  
• Lifting mode: On

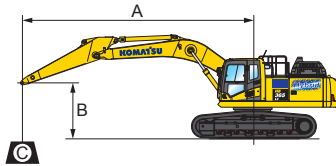
Arm: 4020 mm 13'2"		Bucket: None				Shoes: 700 mm 28"				Unit: kg lb	
A	B	3.0 m 10'	4.6 m 15'	6.1 m 20'	7.6 m 25'	9.1 m 30'	MAX				
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.6 m 25'										* 5610	* 5610
6.1 m 20'										* 12300	* 12300
4.6 m 15'										* 5460	* 5460
3.0 m 10'										* 12000	* 12000
1.5 m 5'										* 5470	* 4940
0 m 0'										* 12000	* 10800
-1.5 m -5'										* 5640	* 4640
-3.0 m -10'										* 12400	* 10200
-4.6 m -15'										* 5950	* 4540
-6.1 m -20'										* 13100	* 10000
										* 6840	* 4600
										* 14200	* 10600
										* 7290	* 4840
										* 16000	* 12400
										* 8040	* 5360
										* 17700	* 11800
										* 7850	* 6420
										* 17300	* 14100
										* 6940	* 6940
										* 15300	* 15300

\*Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.





## LIFTING CAPACITY WITH LIFTING MODE

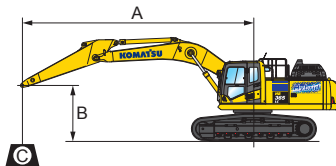


A: Reach from swing center  
B: Bucket hook height  
C: Lifting capacity  
Cf: Rating over front  
Cs: Rating over side  
⊗: Rating at maximum reach

Conditions :  
• 6500 mm 21' 3" one-piece boom  
• Bucket: None  
• Lifting mode: On

Arm: 3185 mm 10'5"			Bucket: None				Shoes: 800 mm 31.5"				Unit: kg lb	
A	3.0 m 10'		4.6 m 15'		6.1 m 20'		7.6 m 25'		9.1 m 30'		MAX	
B	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.6 m 25'											* 7250	* 7250
6.1 m 20'							* 8890	7600			* 15900	* 15900
4.6 m 15'							* 19600	16700			* 7050	6440
3.0 m 10'					* 10740	10260	* 9370	7430			* 15500	14200
1.5 m 5'					* 23600	22600	* 20600	16300			* 7100	5750
0 m 0'											* 15600	12600
-1.5 m -5'	* 13710	* 13710	* 16210	14630	* 12090	9790	* 10030	7200	8240	5570	* 7380	5390
-3.0 m -10'	* 30200	* 30200	* 35700	32200	* 26600	21500	* 22100	15800	18100	12200	* 16200	11800
-4.6 m -15'	* 20540	* 20540	* 18180	13820	* 13220	9370	10510	6980	8120	5460	7820	5260
			* 40000	30400	* 29100	20600	23100	15300	17900	12000	17200	11600
			* 18550	13460	* 13740	9100	10330	6810	8040	5390	7990	5360
			* 40900	29600	* 30200	20000	22700	15000	17700	11800	17600	11800
			* 17720	13380	* 13480	8980	10240	6730			8570	5710
			* 39000	29500	* 29700	19800	22500	14800			18800	12600
			* 15850	13490	* 12300	9010	* 9440	6780			* 8870	6490
			* 34900	29700	* 27100	19800	* 20800	14900			* 19500	14300
			* 12560	* 12560	* 9590	9210					* 8350	8250
			* 27600	* 27600	* 21100	20300					* 18400	18100

\*Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.



A: Reach from swing center  
B: Bucket hook height  
C: Lifting capacity  
Cf: Rating over front  
Cs: Rating over side  
⊗: Rating at maximum reach

Conditions :  
• 6500 mm 21' 3" one-piece boom  
• Bucket: None  
• Lifting mode: On

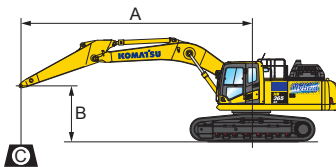
Arm: 4020 mm 13'2"		Bucket: None				Shoes: 800 mm 31.5"				Unit: kg lb		
A	3.0 m 10'		4.6 m 15'		6.1 m 20'		7.6 m 25'		9.1 m 30'		MAX	
B	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.6 m 25'							* 7750	* 7750			* 5610	* 5610
							* 17000	* 17000			* 12300	* 12300
6.1 m 20'							* 7950	7680	* 6550	5740	* 5460	* 5460
							* 17500	16900	* 14400	12600	* 12000	* 12000
4.6 m 15'							* 8520	7470	* 7870	5660	* 5470	4980
							* 18700	16400	* 17300	12400	* 12000	10900
3.0 m 10'			* 14340	* 14340	* 11020	9870	* 9280	7190	8210	5520	* 5640	4700
			* 31600	* 31600	* 24300	21700	* 20400	15800	18100	12100	* 12400	10300
1.5 m 5'			* 16890	13900	* 12370	9350	* 10010	6900	8040	5370	* 5950	4590
			* 37200	30600	* 27200	20600	* 22000	15200	17700	11800	* 13100	10100
0 m 0'	* 8320	* 8320	* 18090	13270	* 13230	8960	10200	6670	7910	5240	* 6480	4640
	* 18300	* 18300	* 39800	29200	* 29100	19700	22500	14700	17400	11500	* 14200	10200
-1.5 m -5'	* 12420	12420	* 17980	13030	* 13400	8740	10050	6530	7840	5180	* 7330	4890
	* 27300	27300	* 39600	28700	* 29500	19200	22100	14400	17200	11400	* 16100	10700
-3.0 m -10'	* 17840	* 17840	* 16780	13030	* 12760	8700	* 10020	6510			* 8040	5410
	* 39300	* 39300	* 37000	28700	* 28100	19100	* 22000	14300			* 17700	11900
-4.6 m -15'	* 19190	* 19190	* 14360	13230	* 11040	8810	* 8190	6640			* 7850	6480
	* 42300	* 42300	* 31600	29100	* 24300	19400	* 18000	14600			* 17300	14300

\*Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

# LIFT CAPACITIES



## LIFTING CAPACITY WITH LIFTING MODE

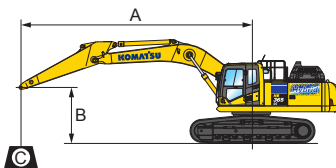


A: Reach from swing center  
B: Bucket hook height  
C: Lifting capacity  
Cf: Rating over front  
Cs: Rating over side  
⊗: Rating at maximum reach

Conditions :  
• 6500 mm 21' 3" one-piece boom  
• Bucket: None  
• Lifting mode: On

Arm: 3185 mm 10'5"		Bucket: None				Shoes: 850 mm 33.5"				Unit: kg lb	
A	3.0 m 10'	4.6 m 15'		6.1 m 20'		7.6 m 25'		9.1 m 30'		⊗ MAX	
B	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
7.6 m 25'									* 7250	* 7250	
									* 15900	* 15900	
6.1 m 20'						* 8890	7630		* 7050	6470	
						* 19600	16800		* 15500	14200	
4.6 m 15'					* 10740	10300	* 9370	7460	* 7100	5770	
					* 23600	22700	* 20600	16400	* 15600	12700	
3.0 m 10'		* 16210	14690	* 12090	9830	* 10030	7230	8280	5590	* 7380	5410
		* 35700	32300	* 26600	21600	* 22100	15900	18200	12300	* 16200	11900
1.5 m 5'		* 18180	13880	* 13220	9410	10560	7010	8160	5490	7850	5290
		* 40000	30600	* 29100	20700	23200	15400	18000	12100	17300	11600
0 m 0'		* 18550	13520	* 13740	9140	10380	6840	8080	5410	8030	5380
		* 40900	29800	* 30200	20100	22800	15000	17800	11900	17700	11800
-1.5 m -5'	* 13710	* 13710	* 17720	13450	* 13480	9020	10290	6770		8610	5740
	* 30200	* 30200	* 39000	29600	* 29700	19900	22700	14900		18900	12600
-3.0 m -10'	* 20540	* 20540	* 15850	13550	* 12300	9050	* 9440	6810		* 8870	6520
	* 45200	* 45200	* 34900	29800	* 27100	19900	* 20800	15000		* 19500	14300
-4.6 m -15'	* 15670	* 15670	* 12560	* 12560	* 9590	9260				* 8350	8290
	* 34500	* 34500	* 27600	* 27600	* 21100	20400				* 18400	18200

\*Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.



A: Reach from swing center  
B: Bucket hook height  
C: Lifting capacity  
Cf: Rating over front  
Cs: Rating over side  
⊗: Rating at maximum reach

Conditions :  
• 6500 mm 21' 3" one-piece boom  
• Bucket: None  
• Lifting mode: On

Arm: 4020 mm 13'2"			Bucket: None				Shoes: 850 mm 33.5"				Unit: kg lb	
A	3.0 m 10'		4.6 m 15'		6.1 m 20'		7.6 m 25'		9.1 m 30'		MAX	
B	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.6 m 25'							* 7750	* 7750			* 5610	* 5610
							* 17000	* 17000			* 12300	* 12300
6.1 m 20'							* 7950	7720	* 6550	5770	* 5460	* 5460
							* 17500	17000	* 14400	12700	* 12000	* 12000
4.6 m 15'							* 8520	7500	* 7870	5690	* 5470	5010
							* 18700	16500	* 17300	12500	* 12000	11000
3.0 m 10'			* 14340	* 14340	* 11020	9910	* 9280	7220	* 8220	5550	* 5640	4720
			* 31600	* 31600	* 24300	21800	* 20400	15900	* 18100	12200	* 12400	10400
1.5 m 5'			* 16890	13960	* 12370	9390	* 10010	6940	8080	5400	* 5950	4610
			* 37200	30700	* 27200	20700	* 22000	15300	17800	11900	* 13100	10100
0 m 0'	* 8320	* 8320	* 18090	13330	* 13230	9000	10250	6710	7950	5270	* 6480	4660
	* 18300	* 18300	* 39800	29400	* 29100	19800	22600	14700	17500	11600	* 14200	10200
-1.5 m -5'	* 12420	* 12420	* 17980	13090	* 13400	8790	10100	6570	7880	5200	* 7330	4910
	* 27300	* 27300	* 39600	28800	* 29500	19300	22200	14400	17300	11400	* 16100	10800
-3.0 m -10'	* 17840	* 17840	* 16780	13090	* 12760	8740	10020	6540			* 8040	5440
	* 39300	* 39300	* 37000	28800	* 28100	19200	22000	14400			* 17700	11900
-4.6 m -15'	* 19190	* 19190	* 14360	13290	* 11040	8860	8190	6670			* 7850	6520
	* 42300	* 42300	* 31600	29300	* 24300	19500	18000	14700			* 17300	14300

\*Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.







## STANDARD EQUIPMENT

### ENGINE

- Auto idle
- Auto idle shut down programmable
- Automatic engine warm-up system
- Dry type air cleaner, double element
- Engine, Komatsu SAA6D114E-6
- Engine coolant to -25°C **-13°F**
- Engine overheat prevention system
- Fuel pre-filter (10 micron, with water separator)
- Fuel priming pump
- Viscous fan clutch, temperature controlled

### HYBRID SYSTEM

- Ultra capacitor with inverter
- Electric swing motor/generator
- Engine mounted motor/generator
- Hybrid component cooling system

### ELECTRICAL SYSTEM

- Alternator, 24 V/90 A
- Batteries, large capacity (2 x 12V)
- Battery master disconnect switch
- Electric horn
- Power ports (2) 24V to 12V
- Starting motor, 24 V/11 kW
- Working lights, 2 (Boom and RH front)

### HYDRAULIC SYSTEM

- Arm holding valve
- Boom holding valve
- Power maximizing system
- PPC hydraulic control system
- Service valve, one additional function
- Two-mode setting for boom
- Working mode selection system

### GUARDS AND COVERS

- Carbody swivel guard
- Pump/engine compartment partition
- Revolving frame deck guards
- Revolving frame under covers
- Slip resistant plates
- Thermal and fan guards
- Track roller guards (center section)

### UNDERCARRIAGE

- 3 speed travel with auto shift
- Carrier roller (2 each side)
- Hydraulic track adjusters (Each side)
- Track roller, 8 each side
- Track shoe, triple grouser, 850 mm **33.5"**

### OPERATOR ENVIRONMENT

- Auxiliary input (3.5 mm jack)
- Automatic climate control/air conditioner/heater/defroster
- High back air suspension seat with heat
- Large high resolution 7" LCD monitor
- Lock lever, work equipment
- Mirrors (RH and LH)
- Operator protective top guard (OPG), level 1
- Rear view monitor system - one camera
- ROPS cab (ISO 12117-2)
- Seat belt indicator
- Seat belt, retractable, 76 mm **3"**
- Secondary engine shut down switch
- Skylight, opening

### OTHER EQUIPMENT

- AM/FM radio
- Counterweight, 6320 kg **13,933 lb**
- Equipment Management Monitoring System (EMMS)
- KOMTRAX® level 5.0
- Operator identification system
- Radiator and oil cooler removable debris screen
- Rear reflector
- Travel alarm



## OPTIONAL EQUIPMENT

- Arms
  - 3185 mm **10'5"** arm assembly
  - 3185 mm **10'5"** arm assembly with piping
  - 4020 mm **13'2"** arm assembly
  - 4020 mm **13'2"** arm assembly with piping
- Booms
  - 6500 mm **21'3"** HD boom assembly
  - 6500 mm **21'3"** HD boom assembly with piping

- Cab guards
  - Lower front window guard
  - Full front guard, OPG Level 1
  - Full front guard, OPG Level 2
  - Bolt-on top guard, OPG Level 2
- KomVision surround camera system
- Hydraulic control unit, 1 actuator
- Proportional control handles for auxiliary hydraulics
- Rain visor
- Revolving frame undercovers, heavy duty
- Sun visor

- Track roller guards, full length
- Track shoes, triple grouser, 700 mm **28"**
- Track shoes, single grouser, 800 mm **31.5"**
- Working lights, front, two additional cab mounted



## ATTACHMENT OPTIONS

- Grade control systems
- Hydraulic couplers
- Hydraulic kits, field installed
- Load hold, anti-burst valves
- PSM thumbs
- Rockland thumbs
- Vandalism protection guards with storage box

**For a complete list of available attachments, please contact your local Komatsu distributor.**

# KOMATSU®

*Note: All comparisons and claims of improved performance made herein are made with respect to the prior Komatsu model unless otherwise specifically stated.*