KOMATSU®

HORSEPOWER
Gross: 202 kW 271 HP / 1950 min^{-1}
Net: 189 kW 253 HP / 1950 min^{-1}

OPERATING WEIGHT
HB335-1: 32200 - 33100 kg
HB335LC-1: 33500 - 34500 kg
HB365-1: 34400 - 34700 kg
HB365LC-1: 35100 - 35500 kg

HB335/335LC-1
HB365/365LC-1

Hybrid

HB
335

HYDRAULIC EXCAVATOR

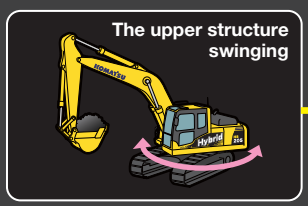
Photos may include optional equipment.

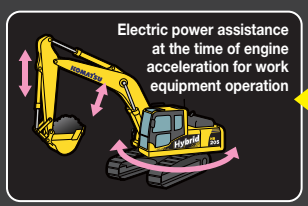
HYBRID SYSTEM

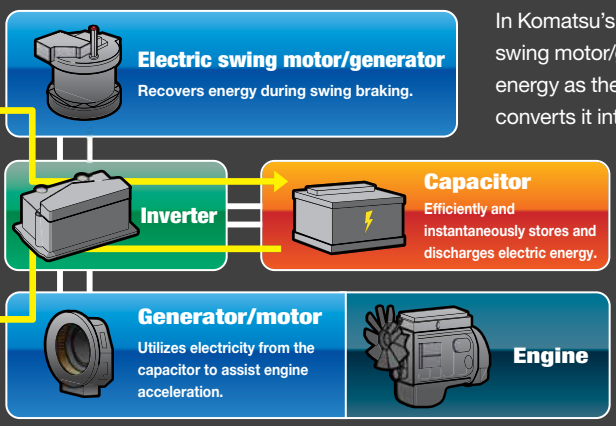
The Leading-edge Machine of the Current Generation of Hydraulic Excavators, Focus both on Environmental Concerns and Practical Performance

Most components including those of the hybrid system are developed and manufactured by Komatsu. They are compact in design and feature excellent reliability and durability.

KOMATSU HYBRID SYSTEM







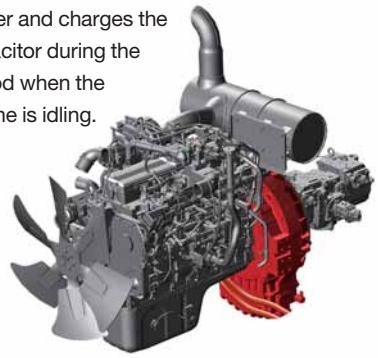
In Komatsu's unique hybrid system, the electric swing motor/generator captures and regenerates energy as the upper structure slows down and converts it into electric energy. The regenerated energy is stored in the capacitor and used by the generator/motor to assist the engine when it needs to accelerate. Thus, the hybrid system reduces fuel consumption significantly. Most components* of the system are developed and manufactured by Komatsu.

* Except capacitor cells

Reliable and Durable Hybrid Components Developed and Manufactured by Komatsu

Generator/Motor

The generator/motor is positioned between the engine and hydraulic pump for effective power transmission to the hydraulic pump. The generator sometimes produces electric power and charges the capacitor during the period when the engine is idling.

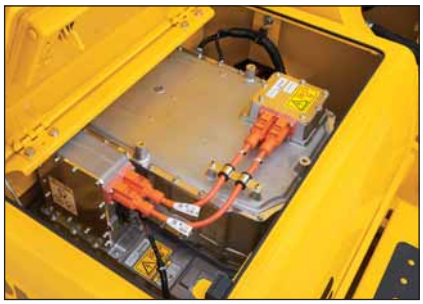


Electric Swing Motor/Generator

The electric swing motor/generator is installed. This recovers the energy during swing braking. The motor/generator accelerates the swing of the upper structure more efficiently than the conventional hydraulic motor and provides excellent swing performance. The dedicated lubrication and cooling systems are employed for reliability and durability.

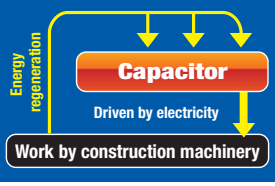
Inverter and Capacitor

The inverter and the capacitor have high reliability with the dedicated cooling system. The capacitor can charge or discharge more quickly than the battery hybrid system, bacause it doesn't require any chemical reactions that take some lag generating the electric current, while the battery requires. The quickness is the advantage for matching the frequent change of the engine speed of construction equipment. The invertor and the capacitor also have the advantage of long life, which require no maintainance because of its little degration.



Capacitor Characteristics

The capacitor is charged and discharged by the migration of electrons and ions. A large amount of energy can be recovered efficiently.



Easy-to-understand Hybrid Operation Monitor Screen

Energy Management Screen

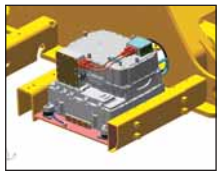
The operation status of the hybrid system is displayed on the screen as energy flows, which include capacitor charging/discharging and engine assist by the generator/motor.

Hybrid System Temperature Gauge

The hybrid system temperature gauge is displayed on the screen. This allows the operator to understand the severity of the load on the hybrid system at a glance.

Strengthened Revolving Frame

The revolving frame is reinforced to protect the hybrid components from impact.



HYBRID HYDRAULIC EXCAVATOR SERIES

The HB335/365-1 series much-awaited 30-ton class based on the hybrid technologies developed for the HB205-1M0. HB335/335LC-1 is great for civil engineering site with performance inherited from the conventional machines, and even greater with hybrid technologies. The wide lineup includes the HB365/365LC-1, which is perfect for quarry and gravel digging with its rugged work tools and body parts.

HB205-1M0

HB335-1

WORKABILITY & ECOLOGY

Komatsu's Technologies that Enabled the Hydraulic Excavator to Satisfy both Environment-friendliness and High Working Performance.

HB335/365-1 series realizes 20%* reduction in fuel consumption while keeping a high level of performance.

* Compared with PC300-8 at P mode and 100% working efficiency. Fuel consumption varies depending on job conditions.

Low Emission Engine

Komatsu SAA6D114E-5 engine is U.S. EPA Tier 3 and EU Stage 3A emissions equivalent, without sacrificing power or machine productivity.

ecot3
ecology & economy - technology 3

Low Operation Noise

Enables low noise operation using the low-noise engine and methods to cut noise at source.

Fuel-saving Technology

The Technology of Engine and Pump Control
HB335/365-1 series introduces the technology of engine and hydraulic pump control, providing further fuel savings with suffcient oil flow at lower engine speed.

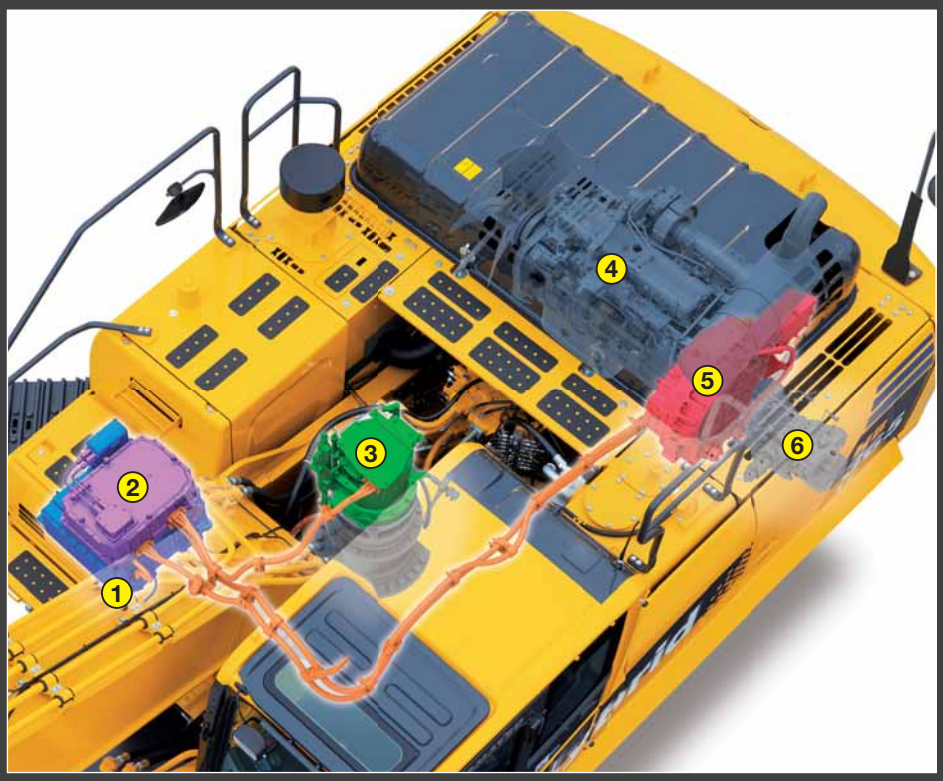
TOTAL VEHICLE CONTROL & HYBRID SYSTEM

The HB335/365-1 series incorporates the hybrid system developed for the HB205-1M0. The inverter, motor-generator, electric swing motor and engine are optimally controlled to suit the work situation, reducing fuel consumption by 20%. Furthermore, Komatsu's SAA6D114E-5 engine delivers the outstanding performance required for 30-ton class excavators. These components are coordinated through Komatsu's total vehicle control technology to make the most of the machine's full potential, resulting in a more powerful yet environment-friendly machine.

Fuel consumption

20 % reduced

Compared with PC300-8 at P mode and 100% working efficiency.
Fuel consumption varies depending on job conditions.



1. Capacitor
2. Inverter
3. Electric swing motor / generator
4. Engine
5. Generator / motor
6. Main pump

Assistance for Energy-saving Operation for Reduced CO_2 Emissions

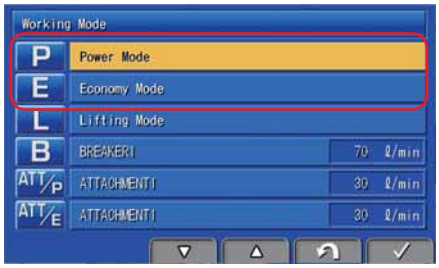
Work Mode Selectable

Selectable two work modes - P mode for large production and E mode for fuel-saving, it depends on your priority.

P mode – Power or production priority mode has improved fuel consumption, while maintaining maximum production.

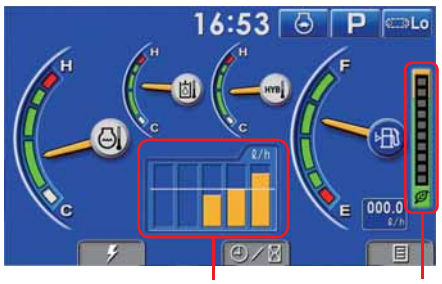
E mode – Economy or fuel priority mode reduces fuel consumption, but maintains the P mode-like work equipment speed for light duty work.

You can select Power or Economy modes using a one-touch operation on the monitor panel depending on work loads.



Fuel Consumption Monitor and ECO Gauge

The bar chart displayed at the center of the screen shows the average fuel consumption in previous 5 minutes to promote energy-saving operation. The screen can be switched to past average fuel consumption log screens for 12 hours and one week . The ECO gauge appears on the right of the screen. Operating the machine by keeping the gauge in the green zone reduces CO_2 emissions and fuel consumption as well.



KOMTRAX Report for Supporting Energy-saving Operation

The report includes actual operating hours, hydraulic stall hours, etc of the machine, which are extracted from the KOMTRAX information. Customers can get the report and use it for energy-saving operation.

Idling Caution

To prevent unnecessary fuel consumption, an idling caution is displayed on the monitor, if the engine idles for 5 minutes or more.

SAFETY & COMFORT

Comfortable and Relaxing Operating Environment for the Operator

The silent and spacious ROPS (ISO 12117-2) cab and various safety features allow the operator to operate the machine comfortably and efficiently.

Safety Design

Lock Lever
The lever makes all hydraulic controls in the cab inoperable. The neutral start function allows the engine to start with this lever only in LOCK position.

Retractable Seat Belt

Emergency Escape Hammer

Reinforced and Tinted Window Glass

Large Side-view, Rear and Sidewise Mirrors
Enlarged left-side mirror and addition of rear and side mirror allow the HB335/365-1 series to meet the visibility requirements (ISO 5006).

Rear View Monitor System (Optional)

Slip-resistant Plates

Thermal and Fan Guards

Pump/Engine Room Partition

Large Handrail

Large Step

Travel Alarm

Standard Equipment


Sliding window glass (Left side)


Remote intermittent wiper with windshield washer


Opening and closing skylight


Defroster (Conform to the ISO 10263-5 standard)


Cigarette lighter


Magazine rack and cup holder


Plastic bottle storage


One-touch storable front window lower glass

ROPS CAB

The machine is equipped with a ROPS cab that conforms to ISO 12117-2 for excavators as standard equipment. The ROPS cab has high shock-absorption performance, featuring excellent durability and impact strength. It also satisfies the requirements of ISO 10262 OPG top guard level 1 for falling objects. Combined with the retractable seat belt, The ROPS cab protects the operator in case of tipping over and against falling objects.




Comfortable Cab for Reduced Operator Fatigue

Low Noise Level Similar to that of a Modern Automobile

Cab Damper Mounts
Significantly reduces vibration at operator seat.

Pressurized Cab
Auto air conditioner, air filter and a higher internal air pressure prevent external dust from entering the cab.

Full-automatic Air Conditioner, with Fresh Air in Take

Wide Cab
Wide and spacious cab provides ample leg room, allowing an operator with a large body frame to take the appropriate operational posture. Reclining it further allows it to be placed into fully flat state with the headrest attached. The operator seat can be reclined, and the adjustment is up to fully flat position with the headrest attached.

ICT & KOMTRAX

The Up-to-date ICT Makes the KOMTRAX System Easy-to-use, Convenient, and Worthy of Your Confidence.*

KOMTRAX with advanced ICT assists the operator in operating the machine and the administrator in managing their machines and reducing fuel cost.

* Information and Communication Technology

Large Multi-lingual High Resolutional Liquid Crystal Display (LCD) Monitor

A large user-friendly high resolution LCD color monitor enables safe, accurate and smooth work. Visibility and resolution are further improved compared with current 7-inch large LCD. Simple and easy to operate switches. Function keys facilitate multi-function operations. Displays data in 13 languages to globally support operators around the world.

Indicators

1. Auto-decelerator
2. Working mode
3. Travel speed
4. Engine coolant temperature gauge
5. Hydraulic oil temperature gauge
6. Hybrid system temperature gauge
7. Fuel gauge
8. ECO gauge
9. Average fuel consumption monitor
10. Function switches menu

Basic operation switches

1. Auto-decelerator
2. Working mode selector
3. Traveling selector
4. Buzzer cancel
5. Wiper
6. Windshield washer

Supports Efficiency Improvement

The main screen displays advices for promoting energy-saving operations as needed. The operator can use the ECO guidance menu to check the operation records, ECO guidance records, average fuel consumption logs, etc.

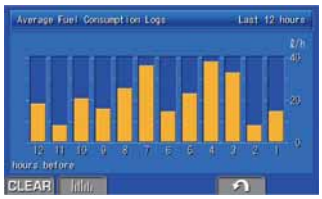
ECO guidance

ECO guidance menu

Operator Assistance Function for Effective and Efficient Operation

Fuel Consumption and Energy Flow Screens

The operator can check information of recent fuel consumption rates and the energy flow among engine and hybrid components on the machine monitor at any time.



Rear View Monitor System that Conforms to ISO Standard (Optional)

The machine is equipped with a rear view camera, allowing the operator to see the blind spot behind the machine on the large LCD monitor screen.

Password Protection for Engine Start (Immobilizer)

The engine cannot be started unless the registered password is entered correctly.

KOMTRAX Message

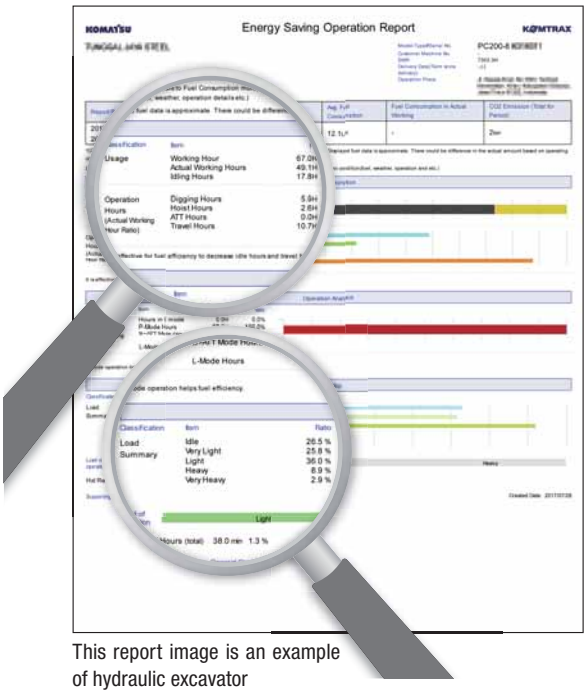
KOMTRAX communication function allows you to get and read messages from your Komatsu dealer on the machine monitor.

KOMTRAX

The Komatsu remote monitoring and management technology provides insightful data about your equipment and fleet in user-friendly format.

Energy Saving Operation Report

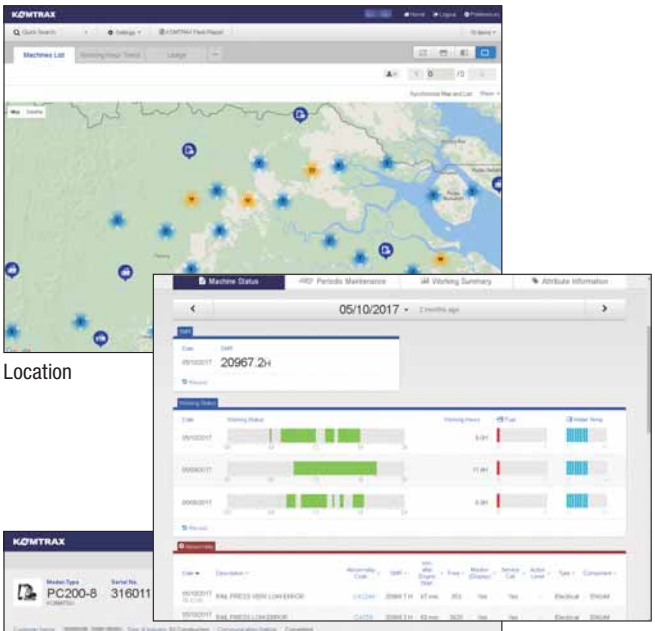
KOMTRAX delivers the energy-saving operation report based on the operating information such as fuel consumption, load summary and idling time, which helps you efficiently run a business.



This report image is an example of hydraulic excavator

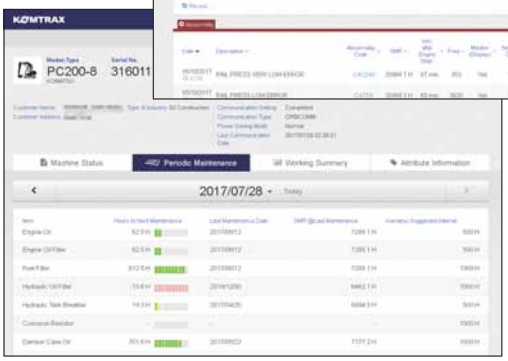
Equipment Management Support

Through the web application, a variety of search parameters are available to quickly find information about specific machines based on key factors. Moreover, KOMTRAX finds out machines with problems from your fleet and shows you through an optimal interface.



Location

Working status



Periodic maintenance

The report contents and data depend on the machine model.

Optimal Strategy for Efficient Work

The detailed information that KOMTRAX puts at your fingertips helps you manage your fleet conveniently on the web anytime, anywhere. It gives you the power to make better daily and long-term strategic decisions.

MAINTENANCE

Simplified Check and Maintenance Work for Keeping the Machine at Its Best

Excellent Maintainability for Reduced Check and Maintenance Time

Easy Cleaning of Cooling Unit
Maintenance of engine upper portion is now easier with the new step installed.

Equipped with the Fuel Pre-filter
(With Water Separator)
Removes water and contaminants in the fuel to prevent fuel problems. (With built-in priming pump)

High Efficiency Fuel Filter
Fuel system reliability is even better with high efficiency fuel filter.

Easy Access to Engine Oil Filter and Fuel Drain Valve

Equipped with the Engine Drain Valve as Standard.

Large Capacity Fuel Tank of 400 Liters with Rustproof Treatment

Sloping Track Frame for Reduced Accumulation of Dirt and Sand and Easy Removal

Washable Cab Floor Mat

High-capacity Air Cleaner

Gas Assisted Engine Hood Damper Cylinders

Air Conditioner (A/C) Filter
The A/C filter is removed and installed without the use of tools facilitating filter maintenance.

Toolbox
The toolbox is installed currently with the step.

Storage Space for Pail-can
A space for storing a pail-can is secured on the left side of machine.

Long-life Oil, Filter

Uses high-performance filtering materials and long-life oil. Extends the oil and filter replacement interval.

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

Long Work Equipment Greasing Interval (Optional)

EQUIPMENT MANAGEMENT MONITORING SYSTEM

Accurate and Prompt Diagnosis Thanks to Equipment Management Monitoring System

Monitor Function
Controller monitors engine oil level, coolant temperature, battery charge and air clogging, etc. If controller finds any abnormality, it is displayed on the LCD.

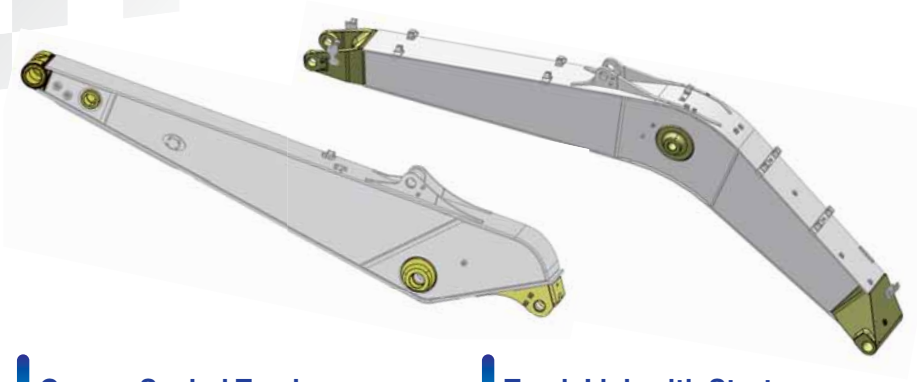
Maintenance Function
Monitor informs replacement time of oil and filters on LCD when the replacement interval is reached.

Trouble Data Memory Function
Monitor stores abnormalities for effective troubleshooting.

RELIABILITY

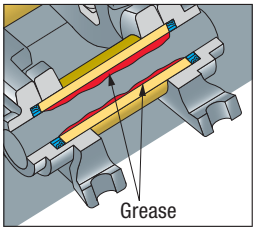
High Rigidity Work Equipment

Boom and arms are constructed of thick plates of high tensile strength steel. In addition, these structures are designed with large cross-sectional areas and generous use of castings. The result is working attachments that exhibit long term durability and high resistance to bending and torsional stress.



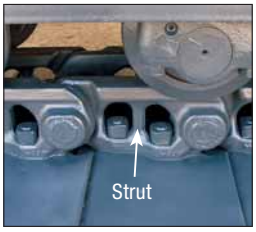
Grease Sealed Track

HB335/335LC-1
HB365/365LC-1
uses grease sealed tracks for extended undercarriage life.



Track Link with Strut

HB335/335LC-1
HB365/365LC-1
uses track links with strut, providing superb durability.



Sturdy Frame Structure

The revolving frame, center frame and undercarriage are designed by using the most advanced three-dimensional CAD and Finite Element Method (FEM) analysis technology.

Highly Reliable Electronic Devices

Exclusively designed electronic devices have passed severe testing.

- Controller
- Sensors
- Connectors
- Heat resistant wiring

Reliable Components

All of the major machine components, such as engine, hydraulic pumps, hydraulic motors and control valves are exclusively designed and manufactured by Komatsu.

OPTIONS

- **Cab front full height guard level 2** (ISO 10262)

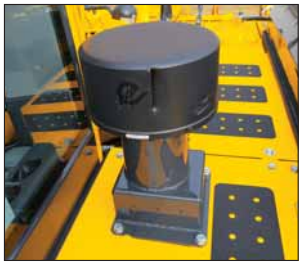
- **OPG top guard level 2** (ISO 10262)

- **Sun visor**

- **Additional front lights**
- **Rain visor**

- **Strengthened track frame undercover**

- **Air pre-cleaner**



ATTACHMENT

Hybrid

Komatsu Genuine Attachment Tool

Komatsu-recommended attachment tools for hydraulic excavators
A wide range of attachment tools are provided to suit customers' specific applications.

Hydraulic breaker

The hydraulic breaker is an attachment tool used for crushing rock beds and paved surfaces, demolishing concrete structures, etc. The large gas chamber, ideal gas pressure ratio, and long-stroke piston deliver a powerful impact force. Since the breaker unit does not require an accumulator, the number of parts has been reduced, resulting in lower maintenance costs.

Crusher

This attachment tool is used for demolishing concrete structures. Since it does not have a striking mechanism and features low noise and low vibration, it is suitable for work in urban areas. The open-close cylinder is equipped with a speed-up valve for increasing work speed.

Pulverizer

Primary crusher

Scrap & demolition shear

The scrap & demolition shears have multiple applications for both overhead-demolishing the steel structure (General structural steels) and cutting structural steel with required length at ground level. (In foundries, dumps, scrap yards)

Applications of Attachment Tools

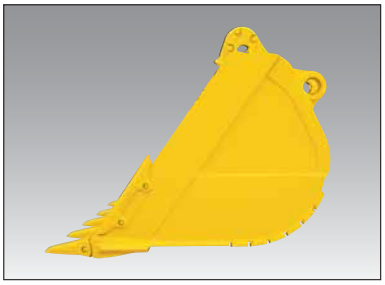
Application/ Attachment Tool	Civil Engineering	Quarry	Demolition	Industrial Waste Disposal	Iron-making	Utility Construction	Rental
Hydraulic Breaker	○	○	○	○	○	○	○
Crusher (Primary Crusher)			○				○
Crusher (Pulverizer)			○	○			○
Scrap & Demolition Shear			○	○			○

KOMATSU BRAND BUCKET

KOMATSU Brand Bucket for General Purpose with Wide Bucket Width

Me Bucket

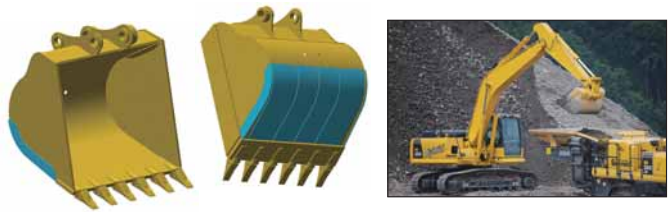
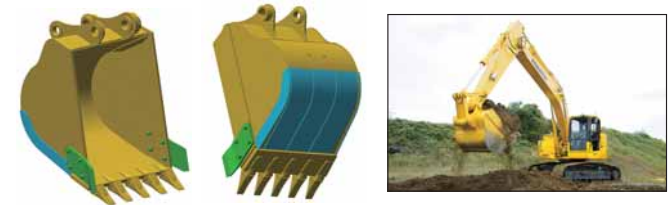
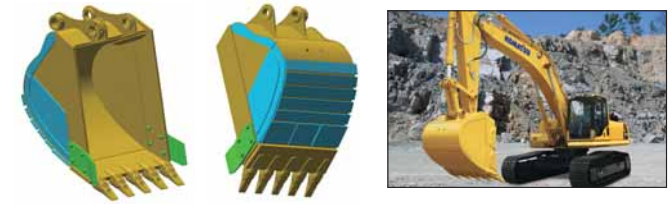
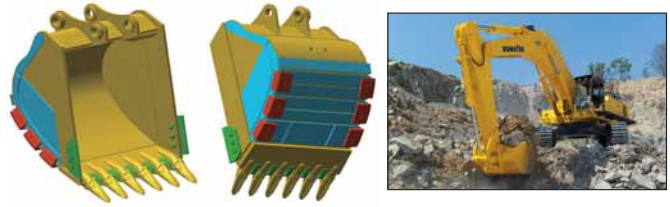
- Low resistant excavation
- High productivity
- High durability
- High fuel efficiency



Conventional

Me Bucket

Category and Feature

Category	**Load / Wear / Soil** (Application)	Image
Light Duty LD	**Load** Machine power remains low during the majority of the work. No impact load. **Wear** Material is not abrasive. **Soil** Dirt, loam and clay.	
General Purpose GP	**Load** Machine power is mostly medium, but occasionally high. Bucket movements are smooth with minor shock load. Bucket penetrates easily. **Wear** Material is lightly abrasive. Some sand may be medium abrasive. **Soil** Mostly loose sand, gravel and finely broken materials.	
Heavy Duty HD	**Load** Machine power is high during majority of the work. Medium, but continuous shock load. **Wear** Material is abrasive. Light scratch marks can be seen at the bucket. **Soil** Limestone, shot rock, compact mix of sand, gravel and clay.	
Extra Heavy Duty XHD	**Load** Machine power is high during most of the work, often at maximum. Dynamic shock loads are frequent and machine may shake. **Wear** Material is very abrasive. Large scratch marks are visible and, or deform metal. Works within heaps of rock with occasional un-shot rock and rock boulders. **Soil** Granite, basalt, quartz sand, compact and sticky clay.	

Bucket Line-up

Category	Bucket Type	Capacity (m^3)	Width*1 (mm)	Weight*2 (kg)	Tooth Quantity	Boom + Arm (m) (HB335-1, HB335LC-1)				Boom + Arm (m) (HB365-1, HB365LC-1)			Tooth Type			
						6.47+2.22	6.47+2.55	6.47+3.19	6.47+4.02	6.47+3.19	6.00+2.22 SE Spec.	6.00+2.55 SE Spec.	Vertical	Horizontal	PAB*3	KMAX
LD	Conventional	1.80	— <1700>	940	5	●	●	●	×	●	—	—	✓	✓	✓	✓
GP	Conventional	0.52	740<610>	664	3	○	○	○	○	○	—	—	✓			
		1.14	1275<1145>	900	5	○	○	○	○	○	—	—	✓	✓	✓	
		1.40	1445<1340>	1015	5	○	○	○	●	○	—	—	✓	✓	✓	
		1.60	1645<1515>	1102	5	□	□	□	×	○	—	—	✓	✓	✓	✓
HD	Conventional	1.40	1445<1340>	1508	5	○	○	○	×	○	—	—		✓	✓	✓
	Me Bucket	1.40	1445<1340>	1430	5	○	○	○	×	○	—	—		✓	✓	✓
		1.60	1645<1515>	1610	5	□	□	□	×	○	—	—		✓	✓	✓
		1.90	1445<1340>	1830	5	×	×	×	×	×	—	○		✓	✓	✓
		2.10	1620<1560>	2090	5	×	×	×	×	×	○	□				✓
		2.30	1750<1690>	2200	5	×	×	×	×	×	□	●				✓
XHD	Me Bucket	1.40	1445<1340>	1585	5	□	□	□	×	○	—	—		✓	✓	
		1.60	1645<1515>	2165	5	□	□	□	×	○	—	—		✓	✓	

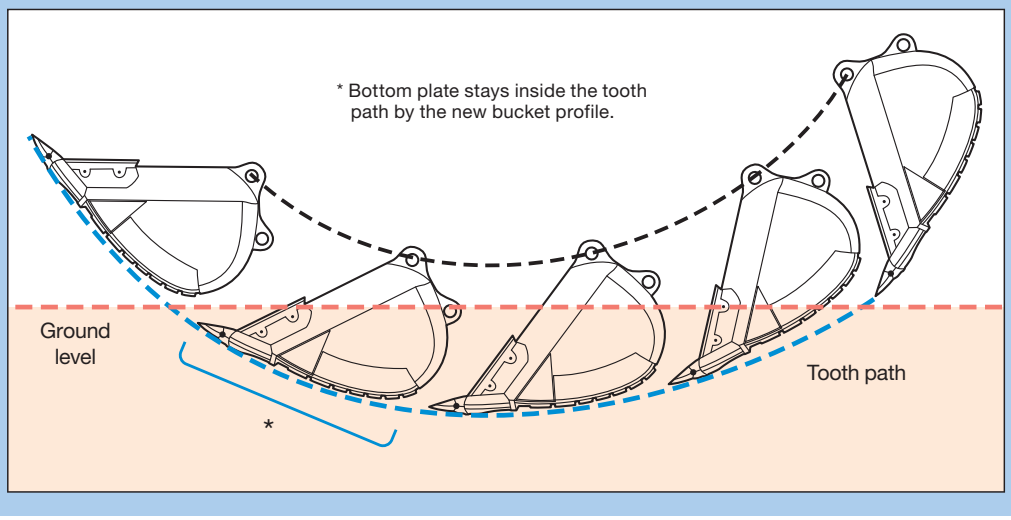
*1 With side cutters or side shrouds, < > without side cutters or side shrouds *2 With side cutters *3 PAB: Pin And Bushing system

○: General purpose use, density up to 1.8 t/m^3 □: General purpose use, density up to 1.5 t/m^3 ●: Light duty work, density up to 1.2 t/m^3 ×: Not usable ✓: Selectable

Feature of [Me Bucket] (More suitable shape and Effectiveness Bucket)

High Productivity by Low-resistant Excavation

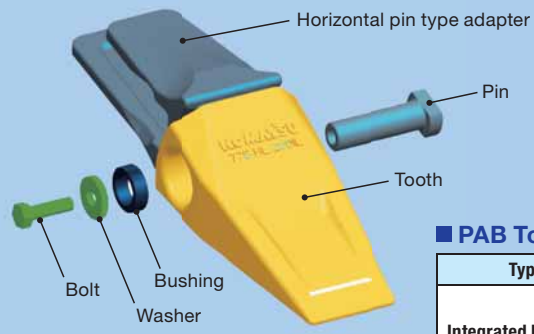
The new Ideal bucket profile produces lower resistance at inside & outside bucket and production will be greatly increased.



Feature of [PAB Tooth] (Pin And Bushing system Tooth)

- Able to fit on the bucket with horizontal pin type adapter
- Easy change-out only with a ratchet wrench
- Longer tooth life by easy rotation and turnover
- Durable and reusable PAB pin with flat surface

Limited to where horizontal pin type tooth is mainly used.




Set PAB tooth to horizontal pin type adapter


Insert exclusive pin to the adapter pin hole

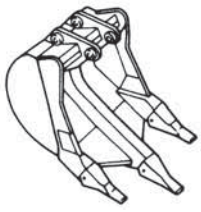

Set bushing, washer and bolt and tighten by a ratchet wrench

PAB Tooth Line-up

Type	Style
Integrated Long Life IL	
Heavy Standard HS	
Heavy Rock HR	

Special Purpose Bucket & Ripper

Feature and Specifications

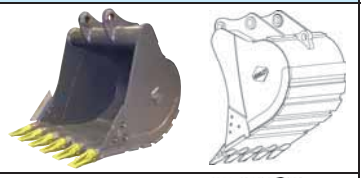
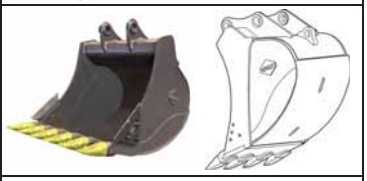
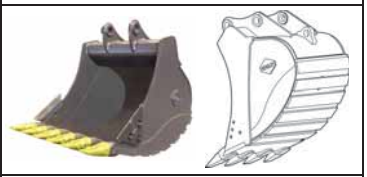
Type	Feature	Bucket Capacity (SAE J 296 Heaped)	Width	Image
Ripper Bucket	Suitable for digging rock bed or hard clayey soil when normal buckets cannot penetrate deep enough. Loading is also possible.	0.90 m^3	1200 mm	

HENSLEY BRAND BUCKET

Diverse Bucket Capacity by Application Featuring "KMAX" Tooth System

- Wide range selection for each application
- Larger profile and capacity to maximize production
- Multiple width options to meet specific job requirements and reduce backfill

Category and Recommended Applications

Category	Recommended Applications	Image
Trenching and Loading TL	Dirt, loam, sand, gravel, loose clay, abrasive soils with limited rock mixture.	
Heavy Duty Plate Lip Bucket with Wear Plate HP	Abrasive soils, compact or dense clay, loose rock and gravel.	
Heavy Duty Plate Lip Bucket with Wear Plate & Wear Strips HPS	Abrasive soils, compact or dense clay, loose rock and gravel.	
Extreme Duty Plate Lip Bucket with Special Features HPX	Shot rock, stratified materials, quarry or tough, highly abrasive applications.	

Bucket Line-up

Category	Capacity (m³)	Width (mm)	Weight (kg)	Tooth Quantity	Boom + Arm (m) (HB335-1, HB335LC-1)				Boom + Arm (m) (HB365-1, HB365LC-1)			Tooth Type
					6.47 + 2.22	6.47 + 2.55	6.47 + 3.19	6.47 + 4.02	6.47 + 3.19	6.00 + 2.22 SE Spec.	6.00 + 2.55 SE Spec.	KMAX
TL	0.68	610	962	3	☆	☆	☆	☆	☆	☆	☆	✓
	0.93	762	1108	4	☆	☆	☆	☆	☆	☆	☆	✓
	1.18	914	1209	4	☆	☆	☆	○	☆	☆	☆	✓
	1.44	1067	1336	5	☆	○	○	□	○	☆	☆	✓
	1.70	1219	1437	5	○	□	●	●	●	☆	☆	✓
	1.96	1372	1582	6	□	●	●	■	●	☆	○	✓
	2.22	1524	1683	6	●	■	■	×	■	○	□	✓
HP	0.68	610	1051	3	☆	☆	☆	☆	☆	☆	☆	✓
	0.93	762	1173	4	☆	☆	☆	☆	☆	☆	☆	✓
	1.18	914	1315	4	☆	☆	☆	○	☆	☆	☆	✓
	1.44	1067	1451	5	○	○	□	●	□	☆	☆	✓
	1.70	1219	1573	5	□	□	●	■	●	☆	☆	✓
	1.96	1372	1716	6	●	●	■	■	■	☆	○	✓
	2.22	1524	1842	6	●	■	■	×	■	○	□	✓
HPS	0.68	610	1121	3	☆	☆	☆	☆	☆	☆	☆	✓
	0.93	762	1281	4	☆	☆	☆	☆	☆	☆	☆	✓
	1.18	914	1398	4	☆	☆	☆	○	☆	☆	☆	✓
	1.44	1067	1561	5	○	○	□	●	□	☆	☆	✓
	1.70	1219	1696	5	□	□	●	■	●	☆	☆	✓
	1.96	1372	1857	6	●	●	■	×	■	○	○	✓
	2.22	1524	1994	6	■	■	×	×	×	□	□	✓
HPX	0.68	610	1184	3	☆	☆	☆	☆	☆	☆	☆	✓
	0.93	762	1359	4	☆	☆	☆	☆	☆	☆	☆	✓
	1.18	914	1501	4	☆	☆	○	□	○	☆	☆	✓
	1.44	1067	1696	5	○	□	□	●	□	☆	☆	✓
	1.70	1219	1838	5	□	●	●	■	●	○	○	✓
	1.96	1372	1980	6	●	■	■	×	■	○	□	✓
	2.22	1524	2119	6	■	■	×	×	×	□	□	✓

☆: Heavy duty work, density up to 2.1 t/m³ ○: General purpose use, density up to 1.8 t/m³
□: General purpose use, density up to 1.5 t/m³ ●: Light duty work, density up to 1.2 t/m³
■: Light duty work, density up to 0.9 t/m³ ×: Not usable ✓: Selectable

Feature of KMAX Tooth System

- Better penetration and cycle times
- Hardness throughout the tooth
- Unique high strength design
- Unique reusable fastener
- Less "throw away" waste
- Fast tooth changeover

Tooth

477-532 Brinell level of hardness throughout the tooth.

The KMAX RC style tooth shown here offers a consumption ratio of 60%.

Fastener

Simple, reusable fastener system saves time and money by unlocking with a simple 90-degree turn.

To lock, use the correct size socket, rotate the pin locking shaft 90-degree clock wise to finish the installation.

When removing the fastener, use the correct size socket to rotate the pin-locking shaft 90-degree counter-clockwise.

KMAX Tooth Line-up

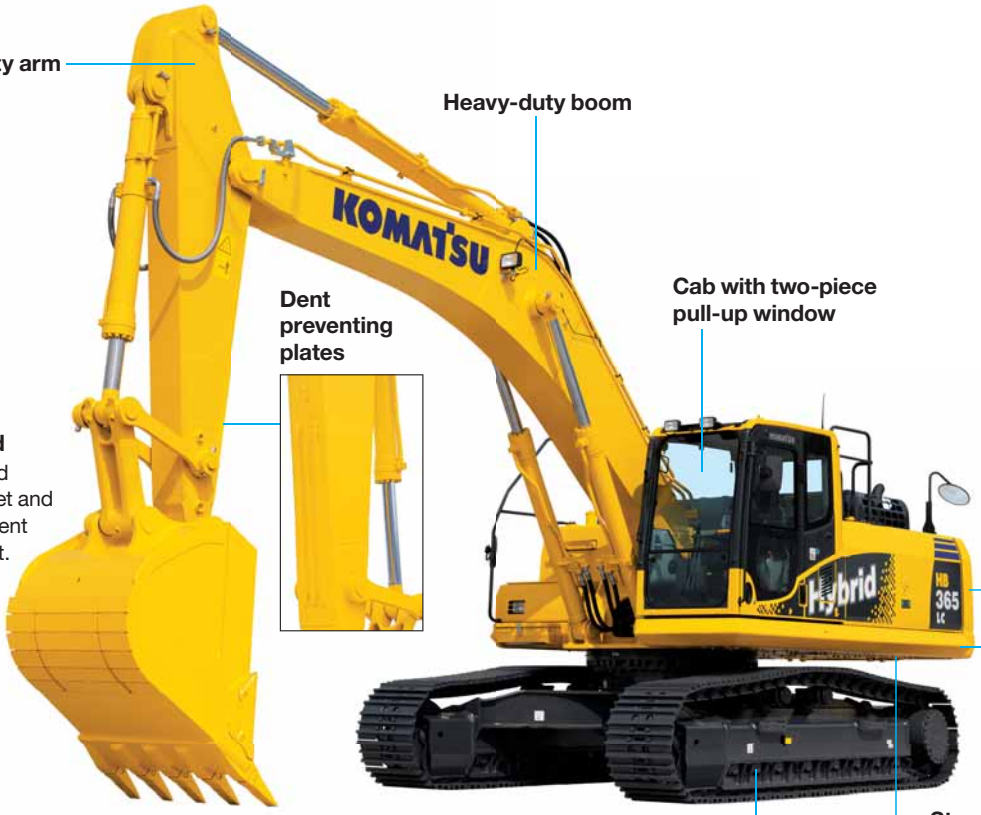
Feature	Style
F **Flare:** Loose material for clean bottom and greater fill	
SYL **Standard:** General applications	
SD **Chisel:** General purpose tooth Designed for penetration	
RC **Rock Chisel:** Designed for penetration and long wear life	
T **Tiger:** Designed for good penetration with ribs for strength	
TV **Tiger:** Offers best penetration in tight material	
UT **Twin Tiger:** Offers longer life penetration for corners	
WT **Twin Tiger:** Designed for penetration for corners	

Some application may not have been available in your country or region. If you are interested in such application, please contact a KOMATSU office near you.

QUARRY HYDRAULIC EXCAVATOR

HB365/365LC-1

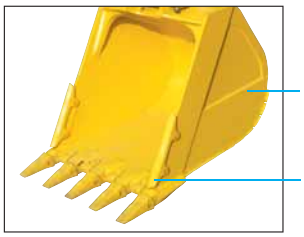
The HB365/365LC-1 is a specially designed heavy-duty machine. The HB365/365LC-1 has strengthened work equipment and various machine body parts for use in severe job sites such as quarry and gravel gathering, etc.



Full roller guard (Full length)

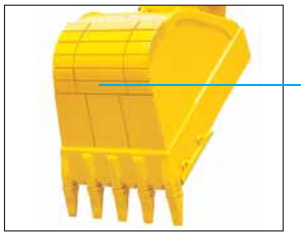
Strengthened revolving frame undercover

Quarry bucket and work equipment
HB365/365LC-1 bucket is designed exclusively for quarry use and is higher strength for impact and wear. Various parts of work equipment are also strengthened.



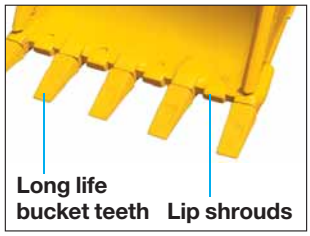
Side reinforcement plates
16 mm thickness high-tensile strength steel used.

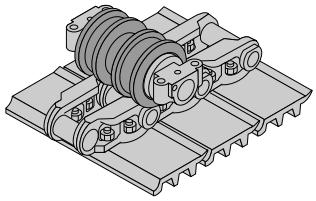
Side shrouds



Bottom wear plate
19 mm thickness high-tensile strength steel used.

Corner tooth adapters





Double-flange track roller
Double-flange roller guides track link correctly and extends life of undercarriage.

Number of double-flange track rollers
HB365-1 ..... 3 each side
HB365LC-1 ..... 4 each side

HB365LC-1 SE Spec.

HB365LC-1 SE spec. is equipped with a large reinforced Me bucket for quarrying work. It increases the efficiency of loading a dump truck with large amounts of loose materials such as blasted rock.

• SE boom • SE arm • Large bucket cylinder • Larger capacity bucket

KOMATSU TOTAL SUPPORT

Komatsu Total Support

To keep your machine available and minimize operation cost when you need it, Komatsu Distributor is ready to provide a variety of supports before and after procuring the machine.

Fleet recommendation

Komatsu Distributor can study the customer's job site and provide the most optimum fleet recommendation with detailed information to meet all of your application needs when you are considering to buy new machines or replace the existing ones from Komatsu.

Product support

Komatsu Distributor gives the proactive support and secures the quality of the machinery that will be delivered.

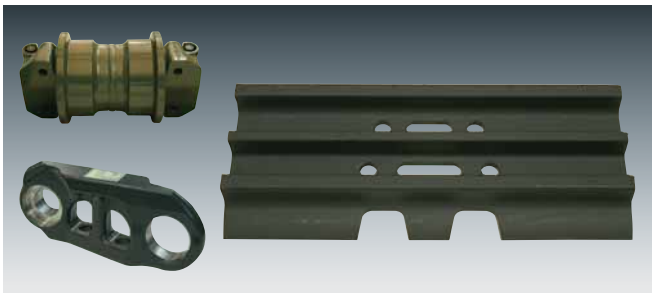
Parts availability

Komatsu Distributor is available for emergency inquiry by the customers for genuine, quality guaranteed Komatsu parts.

Technical support

Komatsu product support service (Technical support) is designed to help customer. Komatsu Distributor offers a variety of effective services to show how much Komatsu is dedicated to the maintenance and support of Komatsu machine.

- Preventive Maintenance (PM) clinic
- Oil & Wear analysis program
- Undercarriage inspection service, etc.



Repair & maintenance service

Komatsu Distributor offers quality repair and maintenance service to the customer, utilizing and promoting Komatsu developed programs.

Komatsu Reman (Remanufactured) components

Komatsu Reman products are the result of the implementation of the Komatsu global policy which establishes and agrees to reduce the owning, operating and total Life Cycle Costs (LCC) to Komatsu's customer through high quality, prompt delivery and competitively priced in own remanufactured products (QDC).

SPECIFICATIONS

Hybrid

ENGINE

Model . . . . . Komatsu SAA6D114E-5
Type. . . . . Water-cooled, 4-cycle, direct injection
Aspiration . . . . . Turbocharged, aftercooled, cooled EGR
Number of cylinders 6
Bore. . . . . 114 mm
Stroke . . . . . 145 mm
Piston displacement . . . . . .8.85 L
Horsepower:
SAE J1995 . . . . . Gross 202 kW (271 HP) / 1950 min^{-1}
ISO 9249 / SAE J1349 . . . . . Net 189 kW (253 HP) / 1950 min^{-1}
Fan drive method for radiator cooling . . . . . Mechanical
Governor . . . . . All-speed control, electronic

U.S. EPA Tier 3 and EU Stage 3A emissions equivalent.

HYDRAULICS

Type. . HydrauMind (Hydraulic Mechanical Intelligence New Design) 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 L/min
Supply for control circuit . . . . . Self-reducing valve
Hydraulic motors:
Travel . . . . . .2 x axial piston motors with parking brake
Relief valve setting:
Implement circuits . . . . . 37.3 MPa 380 kg/cm^2
Travel circuit . . . . . 37.3 MPa 380 kg/cm^2
Pilot circuit . . . . . 3.2 MPa 33 kg/cm^2
Hydraulic cylinders:
(Number of cylinders – bore x stroke x rod diameter)
Boom . . . . . .2–140 mm x 1480 mm x 100 mm
Arm . . . . . .1–160 mm x 1825 mm x 110 mm
Bucket for 3.19 m arm . . . . . .1–140 mm x 1285 mm x 100 mm
for 2.55 m arm . . . . . .1–150 mm x 1285 mm x 110 mm
for 2.20 m arm . . . . . .1–150 mm x 1285 mm x 110 mm

DRIVES AND BRAKES

Steering control. . . . . Two levers with pedals
Drive method. . . . . Hydrostatic
Maximum drawbar pull . . . . . .290 kN 29600 kg
Gradeability . . . . . 70%, 35°
Maximum travel speed: High . . . . . .5.5 km/h
(Auto-Shift) Mid . . . . . .4.5 km/h
(Auto-Shift) Low. . . . . .3.2 km/h
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 min^{-1}

UNDERCARRIAGE

Center frame . . . . . X-frame
Track frame . . . . . Box-section
Seal of track . . . . . .Sealed track
Track adjuster . . . . . Hydraulic
Number of shoes (Each side)
HB335-1, HB365-1 45
HB335LC-1, HB365LC-1 48
Number of carrier rollers. . . . . 2 each side
Number of track rollers (Each side)
HB335-1, HB365-1 7
HB335LC-1, HB365LC-1 8

COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank . . . . . 605 L
Coolant (Engine) . . . . . 42 L
(Hybrid) . . . . . .11.7 L
Final drive (Each side) . . . . . .9.0 L
Swing drive . . . . . .15.6 L
Swing motor . . . . . .3.0 L
Generator motor . . . . . .8.5 L
Hydraulic tank . . . . . 188 L

OPERATING WEIGHT (APPROXIMATE)

Operating weight including 6470 mm one-piece boom, 3185 mm arm, ISO 7451 heaped 1.40 m^3 backhoe bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

Shoes	HB335-1		HB335LC-1	
	Operating Weight	Ground Pressure	Operating Weight	Ground Pressure
600 mm	32200 kg	65.1 kPa 0.66 kg/cm^2	33500 kg	62.6 kPa 0.64 kg/cm^2
700 mm	32700 kg	56.8 kPa 0.58 kg/cm^2	34100 kg	54.6 kPa 0.56 kg/cm^2
800 mm	33100 kg	50.2 kPa 0.51 kg/cm^2	34500 kg	48.3 kPa 0.49 kg/cm^2

Shoes	HB365-1		HB365LC-1	
	Operating Weight	Ground Pressure	Operating Weight	Ground Pressure
600 mm	34400 kg	69.5 kPa 0.71 kg/cm^2	35100 kg	65.6 kPa 0.67 kg/cm^2
700 mm	34700 kg	60.2 kPa 0.61 kg/cm^2	35500 kg	56.8 kPa 0.58 kg/cm^2

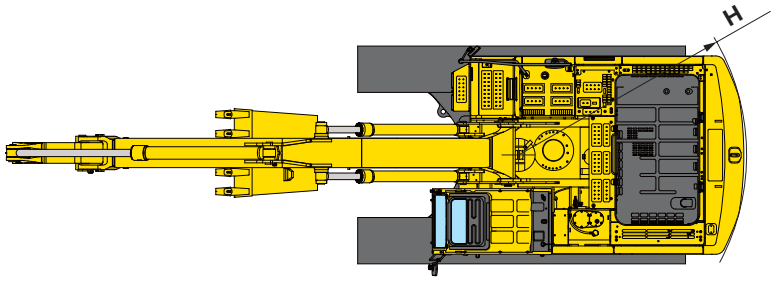
Operating weight including 6000 mm one-piece boom, 2550 mm arm, ISO 7451 heaped 1.90 m^3 backhoe bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

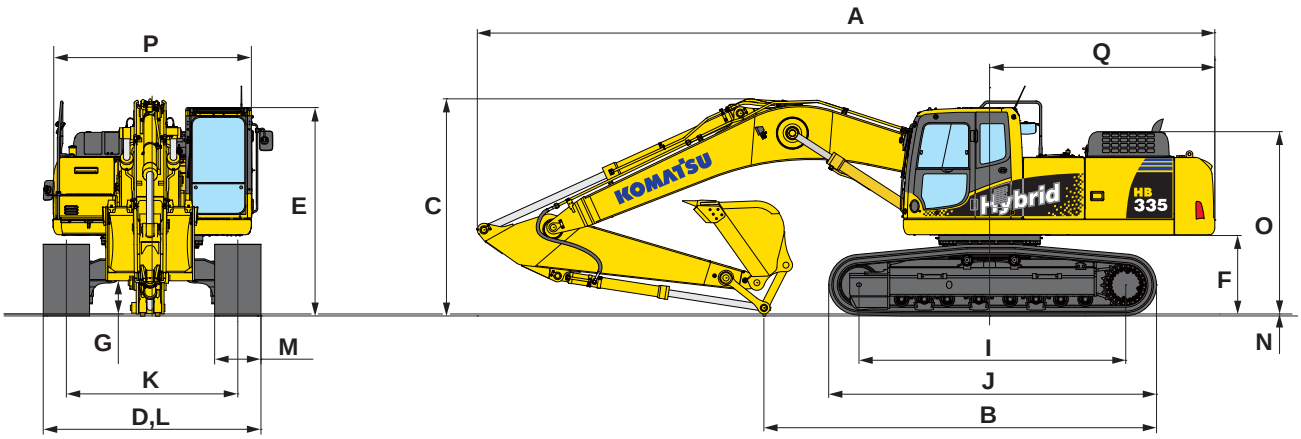
Shoes	HB365LC-1 SE Spec.	
	Operating Weight	Ground Pressure
600 mm	35400 kg	66.2 kPa 0.67 kg/cm^2

DIMENSIONS

Model		HB335-1	HB335LC-1	HB365-1	HB365LC-1	HB365LC-1 SE Spec.	
Boom Length		6470 mm				6000 mm	
Arm Length		3185 mm				2200 mm	2550 mm
A	Overall length	11145 mm	11145 mm	11145 mm	11145 mm	10835 mm	10710 mm
B	Length on ground (Transport)	5755 mm	5930 mm	5755 mm	5930 mm	4485 mm	3660 mm
C	Overall height (To top of boom)*	3285 mm	3285 mm	3285 mm	3285 mm	3710 mm	3505 mm
D	Overall width	3190 mm	3290 mm	3190 mm	3190 mm	3190 mm	
E	Overall height (To top of cab)*	3145 mm	3150 mm	3150 mm	3150 mm	3150 mm	
F	Ground clearance, counterweight	1185 mm	1185 mm	1185 mm	1185 mm	1185 mm	
G	Ground clearance (Minimum)	500 mm	500 mm	500 mm	500 mm	500 mm	
H	Tail swing radius	3445 mm	3445 mm	3445 mm	3445 mm	3445 mm	
I	Track length on ground	3700 mm	4030 mm	3700 mm	4030 mm	4030 mm	
J	Track length	4625 mm	4955 mm	4625 mm	4955 mm	4955 mm	
K	Track gauge	2590 mm	2590 mm	2590 mm	2590 mm	2590 mm	
L	Width of crawler	3190 mm	3290 mm	3190 mm	3190 mm	3190 mm	
M	Shoe width	600 mm	700 mm	600 mm	600 mm	600 mm	
N	Grouser height	30 mm	36 mm	36 mm	36 mm	36 mm	
O	Machine cab height	2750 mm	2750 mm	2750 mm	2750 mm	2750 mm	
P	Machine cab width	2995 mm	2995 mm	3145 mm	3145 mm	3145 mm	
Q	Distance, swing center to rear end	3405 mm	3405 mm	3405 mm	3405 mm	3405 mm	

* Including grouser height

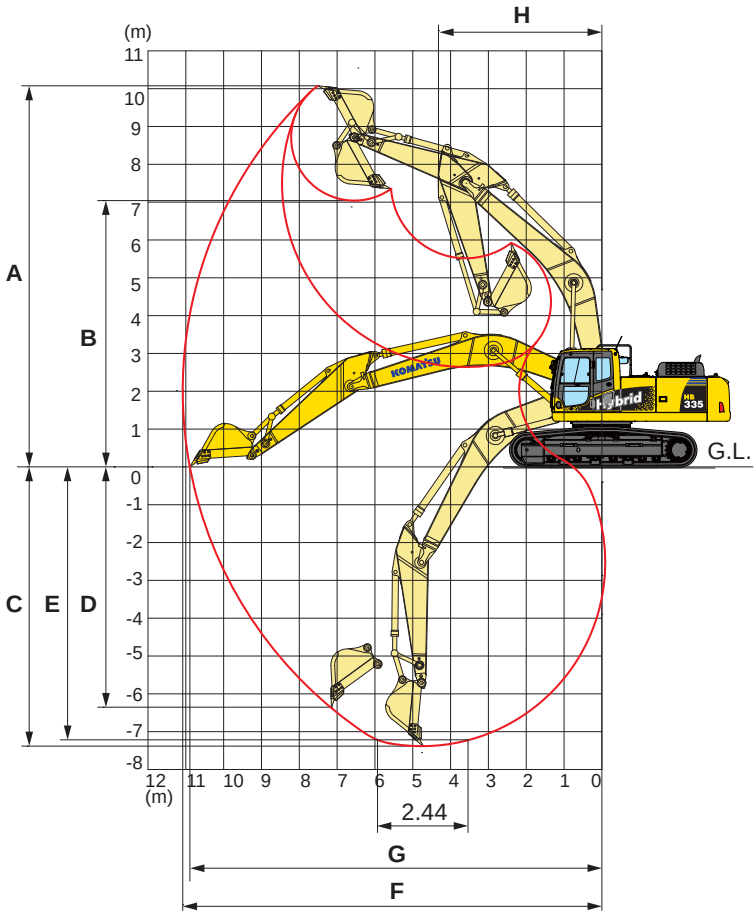




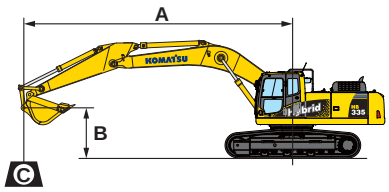
WORKING RANGE

Model		HB335-1 / HB335LC-1 HB365-1 / HB365LC-1	HB365LC-1 SE Spec.	
Boom Length		**6470 mm**	**6000 mm**	
Arm Length		**3185 mm**	**2200 mm**	**2550 mm**
A	Max. digging height	10100 mm	8995 mm	9525 mm
B	Max. dumping height	7050 mm	6200 mm	6575 mm
C	Max. digging depth	7380 mm	5955 mm	6310 mm
D	Max. vertical wall digging depth	6400 mm	4640 mm	5625 mm
E	Max. digging depth of cut for 2400 mm level	7180 mm	5705 mm	6115 mm
F	Max. digging reach	11100 mm	9620 mm	10065 mm
G	Max. digging reach at ground level	10920 mm	9410 mm	9860 mm
H	Min. swing radius	4310 mm	4080 mm	4065 mm
SAE 1179 Rating	Bucket digging force at power max.	200 kN 20400 kg	228 kN 23300 kg	228 kN 23300 kg
	Arm crowd force at power max.	165 kN 16800 kg	225 kN 22900 kg	193 kN 19700 kg
ISO 6015 Rating	Bucket digging force at power max.	227 kN 23100 kg	259 kN 26400 kg	259 kN 26400 kg
		228 kN* 23200 kg*		
	Arm crowd force at power max.	171 kN 17400 kg	235 kN 24000 kg	201 kN 20500 kg

***** HB365-1 and HB365LC-1



LIFTING CAPACITY WITH LIFTING MODE



HB335-1 / HB335LC-1 / HB365-1 / HB365LC-1

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

HB335-1 Boom: 6470 mm one-piece Arm: 3185 mm Bucket:1.40 m³ ISO 7451 heaped Shoe: 600 mm triple grouser

A / B	⊗ MAX		9.0 m		7.5 m		6.0 m		4.5 m		3.0 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.5 m	*5300 kg	*5300 kg			*6850 kg	5900 kg						
6.0 m	*5250 kg	4300 kg			*7250 kg	5850 kg						
4.5 m	*5400 kg	3750 kg	5850 kg	4000 kg	*7800 kg	5600 kg	*9200 kg	8200 kg				
3.0 m	5100 kg	3400 kg	5700 kg	3850 kg	7750 kg	5300 kg	*10650 kg	7700 kg	*15000 kg	12150 kg		
1.5 m	4950 kg	3300 kg	5550 kg	3700 kg	7450 kg	5050 kg	10700 kg	7200 kg	*16700 kg	11150 kg		
0 m	5050 kg	3350 kg	5400 kg	3600 kg	7250 kg	4850 kg	10300 kg	6850 kg	16650 kg	10650 kg		
-1.5 m	5450 kg	3600 kg	5350 kg	3550 kg	7100 kg	4700 kg	10100 kg	6650 kg	16450 kg	10500 kg	*9600 kg	*9600 kg
-3.0 m	6250 kg	4150 kg			7100 kg	4750 kg	10150 kg	6700 kg	*15500 kg	10650 kg	*18000 kg	*18000 kg
-4.5 m	*7550 kg	5400 kg					*9750 kg	6850 kg	*12850 kg	10900 kg	*16600 kg	*16600 kg
-6.0 m	*6300 kg	*6300 kg							*8150 kg	*8150 kg		

HB335LC-1 Boom: 6470 mm one-piece Arm: 3185 mm Bucket:1.40 m³ ISO 7451 heaped Shoe: 700 mm triple grouser

A / B	⊗ MAX		9.0 m		7.5 m		6.0 m		4.5 m		3.0 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.5 m	*5300 kg	*5300 kg			*6850 kg	6150 kg						
6.0 m	*5250 kg	4550 kg			*7250 kg	6100 kg						
4.5 m	*5400 kg	3950 kg	6850 kg	4200 kg	*7800 kg	5850 kg	*9200 kg	8550 kg				
3.0 m	*5700 kg	3600 kg	6700 kg	4050 kg	*8650 kg	5550 kg	*10650 kg	8000 kg	*15000 kg	12650 kg		
1.5 m	5900 kg	3500 kg	6550 kg	3900 kg	8800 kg	5300 kg	*12000 kg	7550 kg	*16700 kg	11650 kg		
0 m	6000 kg	3550 kg	6400 kg	3800 kg	8550 kg	5100 kg	12250 kg	7200 kg	*17500 kg	11100 kg		
-1.5 m	6450 kg	3800 kg	6350 kg	3750 kg	8450 kg	4950 kg	12050 kg	7000 kg	*17000 kg	11000 kg	*9600 kg	*9600 kg
-3.0 m	7400 kg	4400 kg			8450 kg	5000 kg	*11700 kg	7000 kg	*15500 kg	11100 kg	*18000 kg	*18000 kg
-4.5 m	*7550 kg	5700 kg					*9750 kg	7200 kg	*12850 kg	11400 kg	*16600 kg	*16600 kg
-6.0 m	*6300 kg	*6300 kg							*8150 kg	*8150 kg		

HB365-1 Boom: 6470 mm one-piece Arm: 3185 mm Bucket:1.40 m³ ISO 7451 heaped Shoe: 600 mm triple grouser

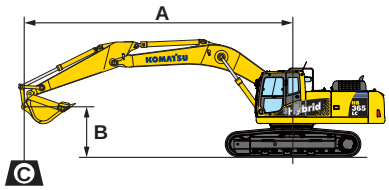
A / B	⊗ MAX		9.0 m		7.5 m		6.0 m		4.5 m		3.0 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.5 m	*4900 kg	*4900 kg			*6400 kg	6050 kg						
6.0 m	*4800 kg	4350 kg			*6750 kg	5950 kg						
4.5 m	*4950 kg	3750 kg	5950 kg	4000 kg	*7300 kg	5750 kg	*8700 kg	8550 kg				
3.0 m	5150 kg	3400 kg	5800 kg	3850 kg	8000 kg	5450 kg	*10100 kg	8000 kg	*14400 kg	12850 kg		
1.5 m	5000 kg	3250 kg	5600 kg	3700 kg	7700 kg	5150 kg	11200 kg	7500 kg	*16100 kg	11750 kg		
0 m	5100 kg	3300 kg	5500 kg	3550 kg	7450 kg	4950 kg	10750 kg	7100 kg	*16900 kg	11200 kg		
-1.5 m	5550 kg	3600 kg	5450 kg	3500 kg	7350 kg	4800 kg	10550 kg	6950 kg	*16350 kg	11050 kg	*9050 kg	*9050 kg
-3.0 m	6400 kg	4200 kg			7350 kg	4800 kg	10550 kg	6900 kg	*14900 kg	11200 kg	*17300 kg	*17300 kg
-4.5 m	*6950 kg	5550 kg					*9150 kg	7100 kg	*12250 kg	11400 kg	*15900 kg	*15900 kg
-6.0 m	*5700 kg	*5700 kg							*7550 kg	*7550 kg		

HB365LC-1 Boom: 6470 mm one-piece Arm: 3185 mm Bucket:1.40 m³ ISO 7451 heaped Shoe: 600 mm triple grouser

A / B	⊗ MAX		9.0 m		7.5 m		6.0 m		4.5 m		3.0 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.5 m	*4900 kg	*4900 kg			*6400 kg	6250 kg						
6.0 m	*4800 kg	4500 kg			*6750 kg	6150 kg						
4.5 m	*4950 kg	3900 kg	*6550 kg	4150 kg	*7300 kg	5950 kg	*8700 kg	*8700 kg				
3.0 m	*5300 kg	3550 kg	6750 kg	4000 kg	*8100 kg	5600 kg	*10100 kg	8250 kg	*14400 kg	13200 kg		
1.5 m	*5850 kg	3400 kg	6600 kg	3850 kg	*8750 kg	5350 kg	*11400 kg	7750 kg	*16100 kg	12150 kg		
0 m	6050 kg	3450 kg	6450 kg	3700 kg	8750 kg	5100 kg	*12000 kg	7350 kg	*16900 kg	11600 kg		
-1.5 m	6500 kg	3750 kg	6400 kg	3650 kg	8600 kg	5000 kg	*11950 kg	7200 kg	*16350 kg	11450 kg	*9050 kg	*9050 kg
-3.0 m	*7150 kg	4350 kg			*8350 kg	5000 kg	*11150 kg	7150 kg	*14900 kg	11550 kg	*17300 kg	*17300 kg
-4.5 m	*6950 kg	5750 kg					*9150 kg	7350 kg	*12250 kg	11750 kg	*15900 kg	*15900 kg
-6.0 m	*5700 kg	*5700 kg							*7550 kg	*7550 kg		

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

LIFTING CAPACITY WITH LIFTING MODE



HB365LC-1 SE Spec.

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

HB365LC-1 SE Spec. Boom: 6000 mm one-piece Arm: 2550 mm Bucket: 1.90 m³ ISO 7451 heaped Shoe: 600 mm triple grouser

A / B	☢ MAX		9.0 m		7.5 m		6.0 m		4.5 m		3.0 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.5 m	*7150 kg	*7150 kg										
6.0 m	*6950 kg	5850 kg			*7400 kg	5900 kg	*8700 kg	*8700 kg				
4.5 m	*7150 kg	4850 kg			*8100 kg	5800 kg	*9500 kg	8700 kg	*12200 kg	*12200 kg		
3.0 m	7400 kg	4400 kg			*8650 kg	5550 kg	*10800 kg	8200 kg	*15200 kg	13150 kg		
1.5 m	7200 kg	4200 kg			8950 kg	5300 kg	*11850 kg	7750 kg	*17050 kg	12200 kg		
0 m	7400 kg	4300 kg			8750 kg	5150 kg	*12200 kg	7400 kg	*17050 kg	11800 kg	*9450 kg	*9450 kg
-1.5 m	*8100 kg	4800 kg			8700 kg	5100 kg	*11750 kg	7300 kg	*15950 kg	11750 kg	*11550 kg	*11550 kg
-3.0 m	*7900 kg	5900 kg					*10150 kg	7400 kg	*13650 kg	11900 kg	*17400 kg	*17400 kg
-4.5 m	*6850 kg	*6850 kg							*9500 kg	*9500 kg	*11750 kg	*11750 kg
-6.0 m												

HB365LC-1 SE Spec. Boom: 6000 mm one-piece Arm: 2200 mm Bucket: 2.10 m³ ISO 7451 heaped Shoe: 600 mm triple grouser

A / B	☢ MAX		9.0 m		7.5 m		6.0 m		4.5 m		3.0 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.5 m	*8850 kg	*8850 kg										
6.0 m	*8350 kg	6550 kg					*8800 kg	*8800 kg				
4.5 m	*8200 kg	5300 kg			*8200 kg	5550 kg	*9650 kg	8400 kg	*12600 kg	*12600 kg	*16100 kg	*16100 kg
3.0 m	8000 kg	4700 kg			*8650 kg	5300 kg	*10850 kg	7900 kg	*15100 kg	12700 kg		
1.5 m	7750 kg	4500 kg			8750 kg	5100 kg	*11750 kg	7450 kg	*16750 kg	11800 kg		
0 m	8050 kg	4600 kg			8550 kg	4950 kg	*11950 kg	7200 kg	*16550 kg	11500 kg		
-1.5 m	*8550 kg	5200 kg			*8200 kg	4900 kg	*11250 kg	7100 kg	*15150 kg	11550 kg	*17250 kg	*17250 kg
-3.0 m	*8350 kg	6700 kg					*9300 kg	7250 kg	*12550 kg	*11650 kg	*15050 kg	*15050 kg
-4.5 m	*6700 kg	*6700 kg							*7800 kg	*7800 kg		
-6.0 m												

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

STANDARD EQUIPMENT

ENGINE
- Automatic engine warm-up system
- Dry type air cleaner, double element
- Engine, Komatsu SAA6D114E-5
- Engine overheat prevention system
- Radiator and oil cooler dust proof net
- Suction fan

ELECTRICAL SYSTEM
- Alternator, 24 V/60 A
- Auto-decelerator
- Batteries, 2 × 12 V/120 Ah
- Starting motor, 24 V/7.5 kW
- Working light, 2 (Boom and RH)

HYDRAULIC SYSTEM
- Boom holding valve
- Power maximizing system
- Pressure Proportional Control (PPC) hydraulic control system
- Two-mode settings for boom
- Working mode selection system

UNDERCARRIAGE
- Hydraulic track adjusters (Each side)
- Track roller
  - —HB335-1, 365-1: 7 each side
  - —HB335LC-1, HB365LC-1: 8 each side
- Track shoe
  - —HB335-1: 600 mm triple grouser
  - —HB335LC-1: 700 mm triple grouser
  - —HB365-1: 600 mm triple grouser
  - —HB365LC-1: 600 mm triple grouser

GUARDS AND COVERS
- Fan guard structure
- Track guiding guard, center section
  - —HB335-1
  - —HB335LC-1
- Track roller guards (Full length)
  - —HB365-1
  - —HB365LC-1
- Revolving frame undercover
  - —HB335-1, HB335LC-1
- Revolving frame undercover, heavy duty
  - —HB365-1, HB365LC-1

OPERATOR ENVIRONMENT
- A/C defroster
- Large high resolution LCD monitor
- Rear view mirror (RH, LH, rear, sidewise)
- ROPS cab (ISO 12117-2)
- Seat belt, retractable
- Seat, suspension

OTHER EQUIPMENT
- Counterweight
- Electric horn
- Rear reflector
- Slip-resistant plates
- Travel alarm

OPTIONAL EQUIPMENT

ENGINE
- Large capacity fuel pre-filter

ELECTRICAL SYSTEM
- Batteries, 2 × 12 V/140 Ah
- Working light, 2 (On cab)

HYDRAULIC SYSTEM
- Long lubricating intervals for imprement bushing
- Service valve

UNDERCARRIAGE
- Shoes, triple grouser
  - —HB335-1: 700 mm, 800 mm
  - —HB335LC-1: 600 mm, 800 mm
  - —HB365-1: 700 mm
  - —HB365LC-1: 700 mm
- Track frame undercover

GUARD AND COVERS
- Track roller guards (Full length)
  - —HB335-1
  - —HB335LC-1

OPERATOR ENVIRONMENT
- AM/FM radio
- Bolt-on top guard [Operator Protective Guards (OPG) level 2 (ISO 10262)]
- Cab accessories
  - —Rain visor
  - —Sun visor
- Cab front guard
  - —Full height guard
  - —Half height guard
- Rear view monitor system

WORK EQUIPMENT
- Arms
  HB335-1, HB335LC-1, HB365-1
  - —3185 mm arm assembly, heavy duty

  HB365LC-1
  - —2220 mm arm assembly, heavy duty
  - —2550 mm arm assembly, heavy duty
  - —3185 mm arm assembly, heavy duty
- Booms
  HB335-1, HB335LC-1,
  HB365-1, HB365LC-1
  - —6470 mm boom assembly

  HB365LC-1
  - —6000 mm boom assembly

OTHER EQUIPMENT
- Fuel refill pump

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