

KOMATSU®

HORSEPOWER
Gross: 202 kW 271 HP / 1950 min⁻¹
Net: 189 kW 253 HP / 1950 min⁻¹

OPERATING WEIGHT
HB335LC-1: 33480 - 34460 kg

HB335LC-1

Preliminary for Australia

Hybrid

HB
335

HYDRAULIC EXCAVATOR



Photos may include optional equipment.

PIONEERING THE NEW ERA

Hybrid hydraulic excavator introduced in the 30-ton class.

Komatsu has achieved hybrid technologies developed for the HB205-1M0/HB215LC-1M0 in an even higher class.

Improved Fuel Efficiency by Total Vehicle Control with a Hybrid System and Fuel-efficient Engine

The HB335LC-1 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 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

Advanced 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).

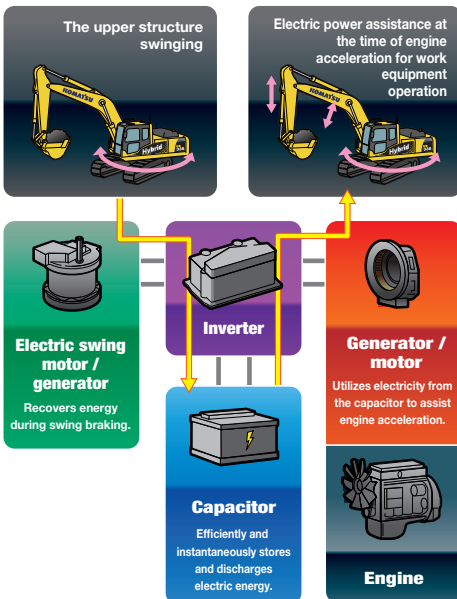
Hybrid System, yet still Powerful Work Performance

Large maximum drawbar pull provides superb steering and slope climbing performance.

Maximum drawbar pull

**290kN
[29600kg] 9.8 % up**

Compared with PC300-8

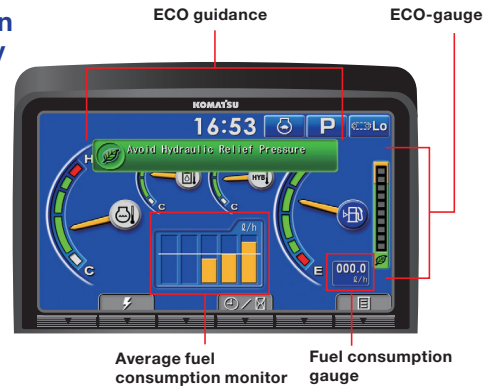


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Hybrid

New Equipment for Customers to Operate the Machine with Ease, Comfort and Safety

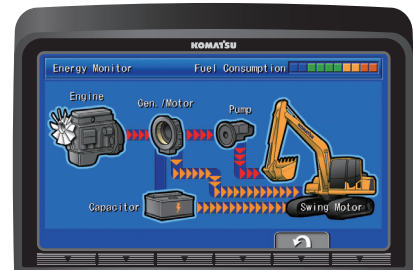
- New high resolution 7" LCD monitor
- ECO guidance displayed in real time
- ECO-gauge and average fuel consumption monitor for energy saving operation
- Operation record, fuel consumption history, ECO guidance record are displayed
- ROPS cab (ISO 12117-2)



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 Hydraulic Excavator Series

The HB335 Series much-awaited 30-ton class based on the hybrid technologies developed for the HB205-1M0/HB215LC-1M0. HB335LC-1 is great for civil engineering site with performance inherited from the conventional machines, and even greater with hybrid technologies.



SPECIFICATIONS For General Spec.



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

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/cm²
 Travel circuit 37.3 MPa 380 kg/cm²
 Pilot circuit 3.2 MPa 33 kg/cm²
 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



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)
 HB335LC-1 48
 Number of carrier rollers 2 each side
 Number of track rollers (each side)
 HB335LC-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, SAE heaped 1.4 m³ backhoe bucket, rated capacity of lubricants, coolant, full fuel tank and standard equipment.

Shoes	HB335LC-1	
	Operating Weight	Ground Pressure
600 mm	33480 kg	62.6 kPa 0.64 kg/cm ²
700 mm	34080 kg	54.6 kPa 0.56 kg/cm ²

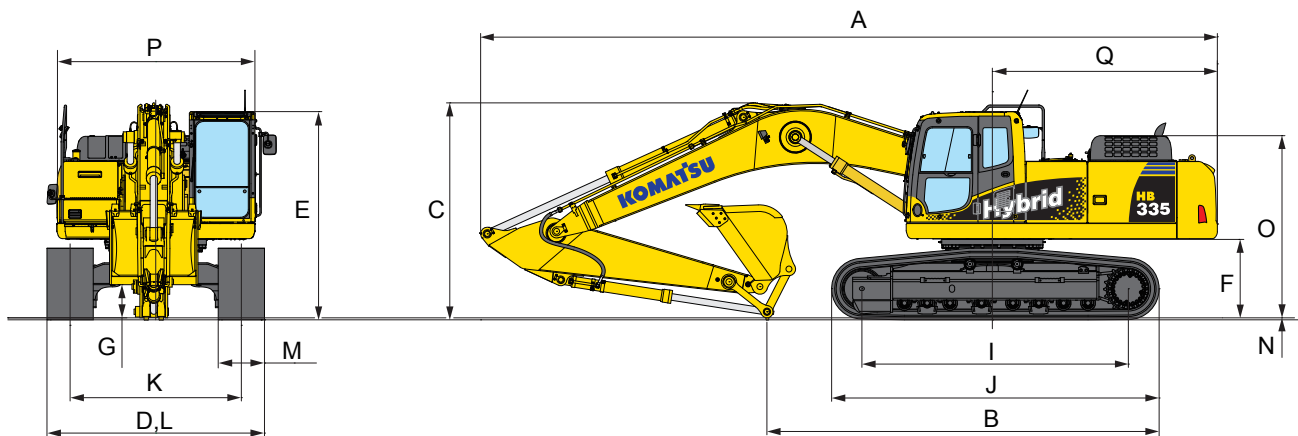
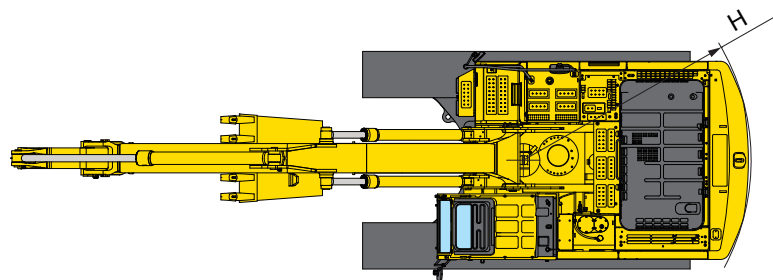


DIMENSIONS

		HB335LC-1
	Arm Length	3185 mm
A	Overall length	11145 mm
B	Length on ground (transport)	5930 mm
C	Overall height (to top of boom)*	3285 mm

		HB335LC-1
D	Overall width	3290 mm
E	Overall height (to top of cab)*	3150 mm
F	Ground clearance, counterweight	1185 mm
G	Ground clearance (minimum)	500 mm
H	Tail swing radius	3445 mm
I	Track length on ground	4030 mm
J	Track length	4955 mm
K	Track gauge	2590 mm
L	Width of crawler	3290 mm
M	Shoe width	700 mm
N	Grouser height	36 mm
O	Machine cab height	2750 mm
P	Machine cab width	2995 mm
Q	Distance, swing center to rear end	3405 mm

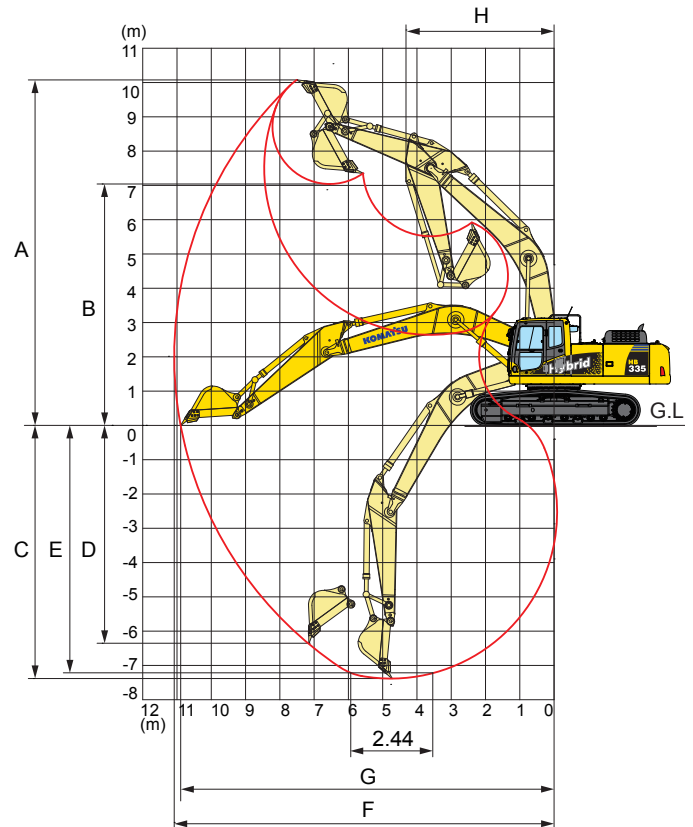
* : Including grouser height



SPECIFICATIONS For General Spec.

WORKING RANGE

	Arm Length	3185 mm
A	Max. digging height	10100 mm
B	Max. dumping height	7050 mm
C	Max. digging depth	7380 mm
D	Max. vertical wall digging depth	6400 mm
E	Max. digging depth of cut for 2400 mm level	7180 mm
F	Max. digging reach	11100 mm
G	Max. digging reach at ground level	10920 mm
H	Min. swing radius	4310 mm
SAE rating	Bucket digging force at power max.	200 kN 20400 kg
	Arm crowd force at power max.	165 kN 16800 kg
ISO rating	Bucket digging force at power max.	227 kN 23100 kg
	Arm crowd force at power max.	171 kN 17400 kg



BACKHOE BUCKET, ARM, AND BOOM COMBINATION

HB335LC-1						
Bucket Capacity (heaped)		Width		Weight	Number of Teeth	Arm Length
SAE, PCSA	CECE	Without Side Cutters	With Side Cutters	With Side Cutters		3.19 m
0.52 m ³	0.48 m ³	610 mm	740 mm	664 kg	3	○
1.14 m ³	1.00 m ³	1145 mm	1275 mm	900 kg	4	○
1.40 m ³	1.20 m ³	1340 mm	1445 mm	1015 kg	5	○
1.60 m ³	1.40 m ³	1515 mm	1645 mm	1102 kg	6	□
1.80 m ³	1.60 m ³	1700 mm	—	* 1115 kg	6	●
** 1.40 m ³	1.20 m ³	—	1458 mm	1508 kg	5	○
** 1.50 m ³	1.30 m ³	—	1458 mm	1560 kg	5	○

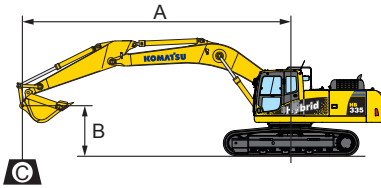
* : Without side cutters
 ** : Quarry bucket (with side shroud)

○ : 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



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

HB335LC-1 Arm: 3185 mm Bucket: 1.40 m³ SAE heaped Shoe: 700 mm triple grouser													
B	A	⊗ 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		

*Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

HB335LC-1

	HB335LC-1
Roller guard	Standard
Cab	Two-piece pull-up window
Revolving frame undercover	Standard
Track roller	Single-flange
Counterweight	Standard



STANDARD EQUIPMENT (SOME EQUIPMENT FOR AUSTRALIA IS NOT INCLUDED)

ENGINE

- Automatic engine warm-up system
- Dry type air cleaner, double element
- Engine, Komatsu SAA4D114E-5
- Engine overheat prevention system
- Radiator and oil cooler dust proof net
- Suction fan

ELECTRICAL SYSTEM

- Auto-decel
- Alternator, 24 V/60 A
- 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
- PPC hydraulic control system
- Two-mode settings for boom
- Working mode selection system

UNDERCARRIAGE

- Hydraulic track adjusters (each side)
- Track roller
 - HB335LC-1
- Track shoe
 - HB335LC-1: 700 mm triple grouser

GUARDS AND COVERS

- Fan guard structure
- Track guiding guard, center section

OPERATOR ENVIRONMENT

- Air conditioner defroster
- Large high resolution LCD monitor
- Rear view mirror (RH,LH,rear,sidewise)
- ROPS cab (ISO 12117-2)
- Seat belt, retractable

OTHER EQUIPMENT

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



OPTIONAL EQUIPMENT (SOME EQUIPMENT FOR AUSTRALIA IS NOT INCLUDED)

ELECTRICAL SYSTEM

- Batteries, 2 × 12 V/140 Ah
- Working light, 2 (on cab)

HYDRAULIC SYSTEM

- Long lubricating intervals for impement bushing
- Service valve

UNDERCARRIAGE

- Shoes, triple grouser
 - HB335LC-1: 600 mm
- Track roller guard (full length)
- Track frame undercover

OPERATOR ENVIRONMENT

- Bolt-on top guard (Operator Protective Guards level 2 (OPG))
- Cab accessories
 - Rain visor
 - Sun visor
- Cab front guard
 - Full height guard
 - Half height guard
- Rear view monitoring system
- Seat, suspension

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