KOBELCO

HYDRAULIC EXCAVATORS

SK330 MARK VI
SK330LC MARK VI

Bucket Capacity: 1.2 - 1.8 m³ SAE heaped

Engine Power: 177 kW (240 PS/237 HP) SAE NET at 2,200 rpm

Operating Weight: 34,900 kg – SK330-VI 35,500 kg – SK330LC-VI

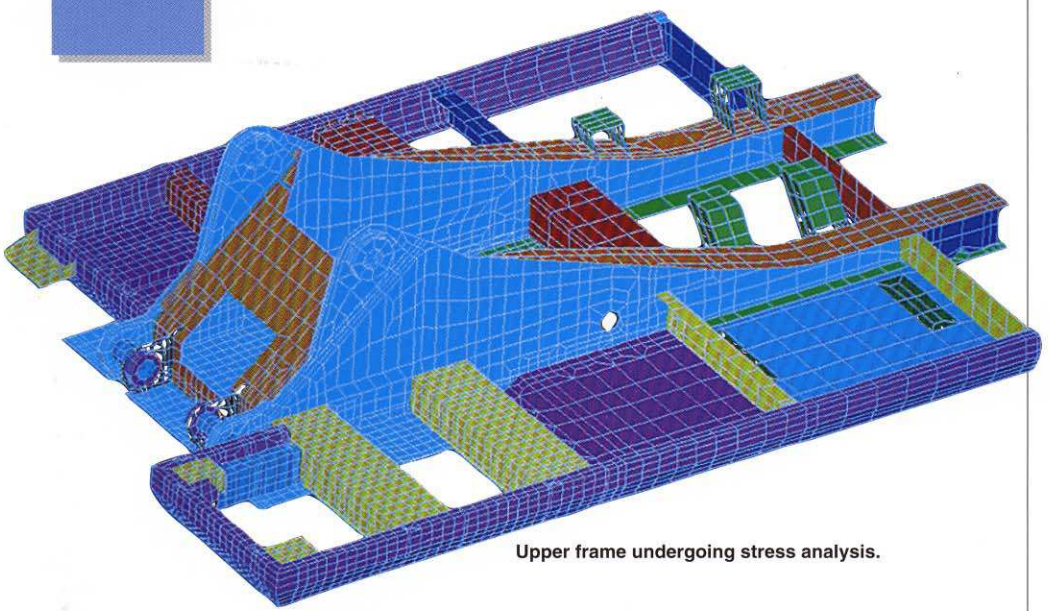
Dynamic Acera

The Dynamic Acera Series excavators from KOBELCO are specifically designed to give you an ideal combination of power and versatility. With their large, efficient engines, enhanced structural rigidity and new operational modes, they can perform a wide range of specialized jobs that go far beyond simple digging. These tough machines let you tackle civil engineering, rock removal, demolition, scrap handling, and many other tasks with reliable ease. And all this is supported by a reinforced design for added durability and advanced engineering that easily meets or surpasses international standards for comfort, safety, and environmental conservation. So slip behind the controls and discover what DYNAMIC is all about!

STRUCTURE

Performance You Can Count On!

UPPER STRUCTURE

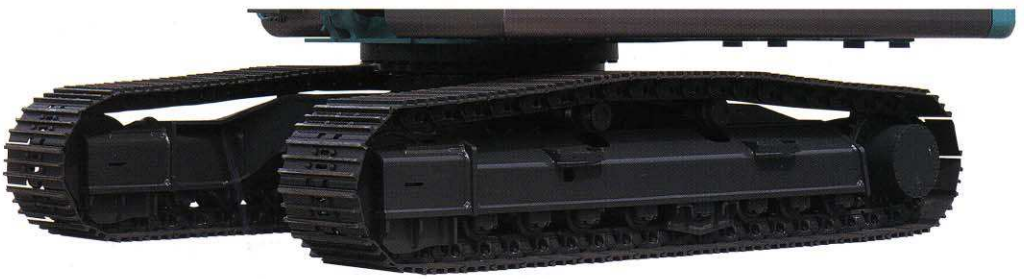


Upper frame undergoing stress analysis.

Rugged Construction

In readiness to take on more diversified applications, upper structure has been engineered with advanced CAD analysis to achieve rigid and stress relieving mainframe.

LOWER STRUCTURE



Tough Rigid Lower Frame

Thicker steel plate has been used in the carbody to boost X-section strength, as well as in the crawler frame, to increase its rigidity.

Ideal Weight Distribution and Stability

The reinforced, heavier lower frame creates a lower center of gravity which, in combination with a longer rear radius, provides utmost stability.

Reinforced Boom Structure

Boom structure has been well reinforced with thicker steel plates.

Power Boost

At the touch of a switch, the digging force can be further boosted by 10% with a new Power Boost system which has no restricting time limit.

Bucket digging force:

Normal: 221 kN
Power Boost: 242 kN

Arm crowding force:

Normal: 165 kN
Power Boost: 181 kN

Automatic Travel Speed Shift

Two-speed travel motor automatically shifts high mode down to low mode depending on a terrain condition.

High mode: 5.8 km/h
Low mode: 3.4 km/h

Powerful and Efficient Engine

The turbo-charged engine delivers power to spare. This combines with ITCS (Intelligent Total Control System) to ensure better fuel efficiency.

Engine output: 240PS (177kW) at 2,200 rpm

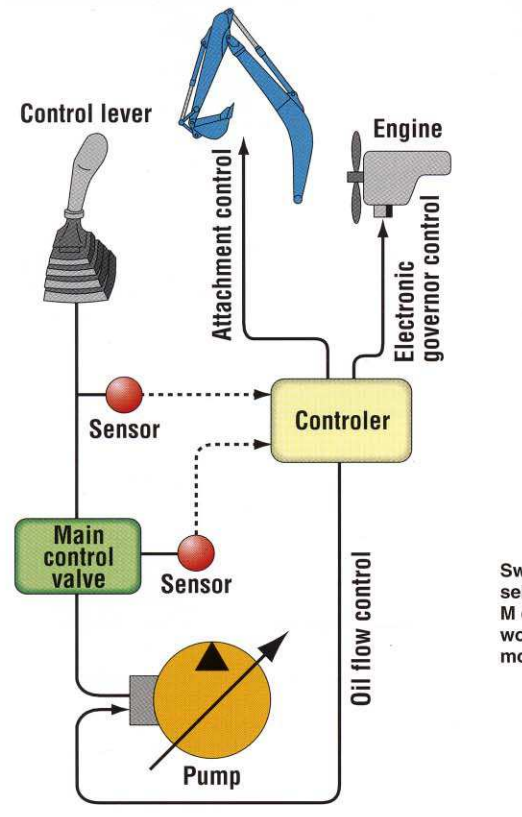
New Working Modes Improve Productivity and Reduce Fuel Consumption!

Assist Mode
The onboard computer uses fuzzy logic to analyze the pattern of lever control and to "assist" to match the oil flow and engine rpm with the job at hand for greater efficiency. A graphic display on the monitor screen confirms how the system enhances performance.

Manual Mode
The Manual mode features crisp control and maximum engine output to boost operating capacity for hard digging and loading.

Breaker Mode
When operating breaker, the computer automatically modifies pump output in a preset maximum oil flow to the breaker, and returns to normal flow when other controls are engaged.

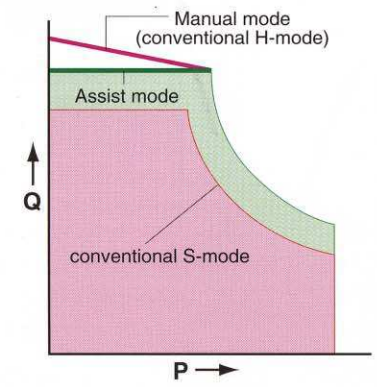
New Working Mode System



Assist Mode Features

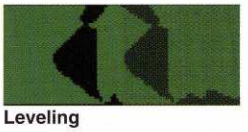
Matched with electronic governor control, Assist mode maintains the same engine rpm regardless of the workload, and always keeps engine rpm within rated rpm. In these two ways, Assist mode helps to reduce noise and fuel consumption.

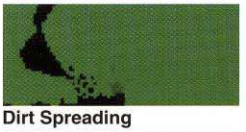
PQ Curve



Assist Mode Display Sample


Digging


Leveling


Dirt Spreading

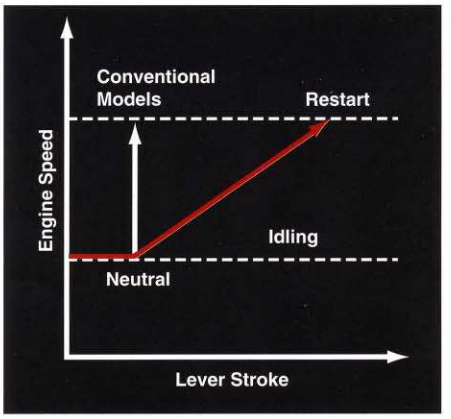

Tamping

Standard

KOBELCO's Advanced Control Systems

Electronic Active Control System

This advanced system provides sensitive and accurate response in proportion to the lever stroke while ensuring shockless starts and stops.



Mechanisms for Smoother Control

- Rotary electric engine throttle allows fine adjustment
- Arm cavitation prevention system, arm sequenced conflux, and boom lowering recharge system ensure reliable inching control of the attachment and enhance simultaneous operations.
- Swing priority system and swing rebound prevention device simplify swing positioning and simultaneous operations.

Auto Decelerator for Fuel Saving

The engine automatically returns to low idles with control levers in neutral for saving fuel consumption.

Auto Warm-Up System

This system shortens standby time to get the machine up and running quickly even in severe cold.

COMFORT CAB

Wide Cab Exceeds International Standards!

Wide, Reinforced Cab Construction

The 1,005 mm wide cab provides fatigue-free operating environment. Reinforced pillars have also been added for greater cab rigidity.

Convenient Console Layout

❶ Electric rotary engine throttle ❷ Working mode selector switch ❸ Multi-display monitor
❹ Power Boost switch ❺ Safety lever lock ❻ Automatic air conditioner

Full Visibility

Extra-large windows ensure outstanding visibility. The front upper window can slide open lightly along cab ceiling

❶ Large windshield wiper parks on the cab pillar out of sight when not in use.
❷ Polycarbonate skylight, with gas-operated springs for light, easy opening and closing, provides ventilation and improves upward visibility.

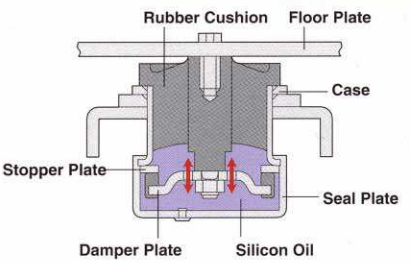
Large-Capacity Air Conditioner

A non-CFC automatic air conditioner ensures comfortable work environment. With fresh-air vents, a face grill, and a front defroster, it maintains constant comfort in any weather condition through the year.

Viscous Cab Mounts

Containing silicon oil, the viscous cab mounts absorb vibration to provide a more comfortable ride. Stout construction keeps the in-cab noise level to a low 72dB.

Cross-section of Viscous Cab Mount



Ergonomic KAB Seat

The deluxe KAB seat features a dual-slide base that both separate and combined adjustment of the control console and seat. The seat is fully adjustable in seven directions, including forward and backward tilt angle of 15°.

HIGH RELIABILITY

Reliable, Low-Maintenance Performance That Lasts!

New CPU Back-up System

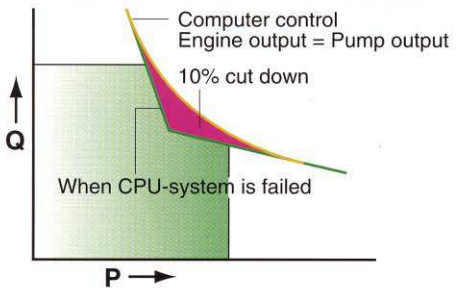
The chances of computer failure are very few, but if it happens, a new CPU back-up system keeps the engine and hydraulic system operating to allow the machine going at 90% normal capacity.

CPU release switch

Engine cable throttle used when CPU is down

Emergency engine stop

CPU back-up System



Information Search and Display

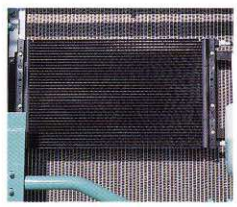
The new multi-display monitor, attractively installed in a simulated wood frame, provides more information about machine condition with gauges switched to analog display for quicker, easier reading.

- Maintenance information display
- Self-diagnostic function (33 items)
- Service diagnostic function (35 items)
- Malfunction log (past 100 incidents)

Easy Removable Radiator

New Removable Radiator

The newly designed radiator is positioned far enough away from the oil cooler to permit hand insertion, making daily cleaning easy, furthermore radiator can be taken off for thorough cleaning without disconnecting hydraulic piping. (Patent pending.)



- The louver-less aluminum oil cooler, eliminates the risk of oil leakage due to rust or corrosion.

Durable Boom Foot

- The self-greasing bushing in the boom foot and cylinder fixtures prolong service interval.

- Bushings are fitted on the machine-body side of the boom foot to reduce wear and minimize clatter.
- Components such as the hood and engine cover are made of steel for durability and easy body repairs.
- The highly durable urethane paint finish maintains its attractive appearance longer.

SPECIFICATIONS

ENGINE

Model:	Mitsubishi 6D16-TLE1
Type:	Direct injection, water-cooled, 4-cycle diesel engine with intercooled turbochager
No. of cylinders:	6
Bore and strokes:	118 mm × 115 mm
Displacement:	7,545 cc
Rated power output:	240 PS (237 HP) NET at 2,200 rpm (SAE J1349) 177 kW NET at 2,200 rpm (ISO 9249)
Max. torque:	84.0 kgf.m NET at 1,800 rpm (SAE J1349) 824 N.m NET at 1,800 rpm (ISO 9249)

HYDRAULIC SYSTEM

Pump:	Two variable displacement pumps + 1 gear pump
Max. discharge flow:	2 × 253 liters/min
Max. dischaege pressure:	
Boom, arm and bucket:	34.3 MPa (350kg/cm²)
Power Boost:	37.8 MPa (385 kg/cm²)
Prople circuit:	34.3 MPa (350 kg/cm²)
Swing circuit:	27.5 MPa (280 kg/cm²)
Control circuit:	4.9 MPa (50 kg/cm²)
Pilot control pump:	Gear type
Control valves:	6-spool
Oil cooler:	Finned tube, forced ventilation

CAB & CONTROL

All-weather, sound-suppressed steel cab is mounted on the silicon-sealed viscous mounts and fitted with an insulated floor mat. Large, tinted safety-glass windows, with pull-type upper front window and removable lower front window. Seven-way adjustable dual-slide seat with wrist-action levers, rotary-type electric engine throttle, safety lock lever, and multi display monitor. Ventilated, pressurized climate control system that bring outside air into cab. Intermittent windshield wiper with two-jet washer, light action cab door, skylight, cab light (interior), coat hook, and utility box.

TRAVEL SYSTEM

Drive motors:	Independent, axial-piston, two-syep motor for each side
Brakes:	Independent, disc parking brakes for each side
Track shoes:	45 each side (SK330) 48 each side (SK330LC)
Travel speed:	5.8/3.4 km/h
Drawbar pulling force:	285 kN (29,000 kgf)
Gradeability:	35° (70%)
Ground clearance:	500 mm

SWING SYSTEM

Brake:	hydraulic, locking automaticlly when the swing control lever is in neutral position
Parking brake:	Hydraulic disc brake
Swing sped:	9.1 rpm
Tail swing radius:	3,500 mm
Mini. front swing raius:	4,290 mm

BOOM, ARM AND BUCKET

Boom cylinders (2):	140 mm × 1,542 mm
Arm cylinder:	170 mm × 1,790 mm
Bucket cylinder:	150 mm × 1,193 mm

REFILLING CAPACITIES AND LUBRICATIONS

Fuel tank:	560 liters
Cooling system:	34 liters
Engine oil:	28 liters
Track drives:	2 ×10.5 liters
Swing drives:	21.5 liters
Hydraulic oil:	
Tank (oil level):	206 liters
Hydraulic systm:	351 liters

ATTACHMENTS

Backhoe bucket and arm combination

Use			Backhoe bucket				
			Normal digging			Light-duty	Heavy-digging
Bucket capacity (SAE heaped)		m³	1.2	1.4	1.6	1.8	1.4
Bucket capacity (Struck)		m³	1.0	1.2	1.4	1.6	1.2
Opening width or X-section	With side cutters	mm	1,240	1,430	1,610	—	1,390
	Without side cutters	mm	1,100	1,300	1,480	1,670	1,320
No. of teeth			4	5	5	5	5
Combinations	2.60 m arm		○	○	○	△	○
	3.33 m arm		○	○	△	×	○
	4.15 m arm		○	△	×	×	×

○ Recommended △ Loading only × Not recommended

WORKING RANGES

Unit: m

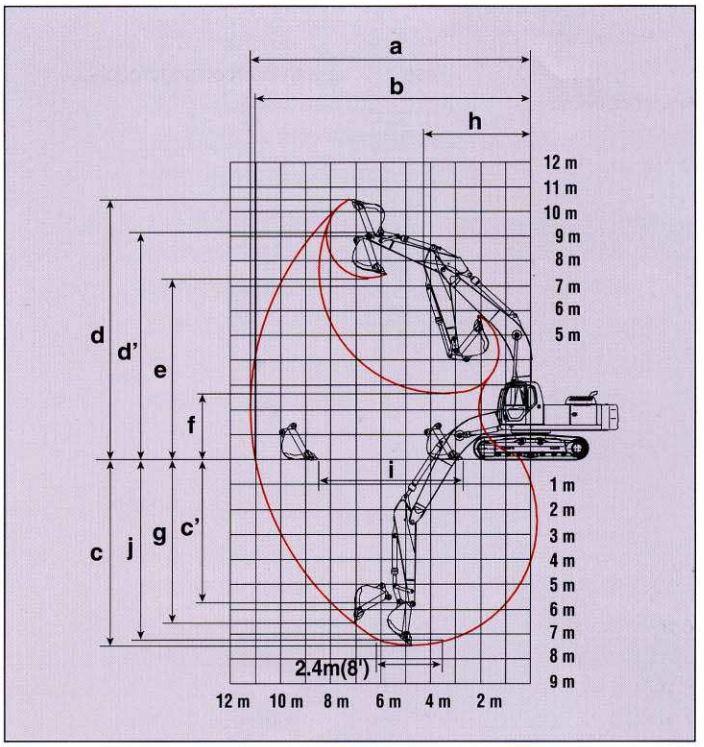
Arm / Range	2.60 m	Standard 3.33 m	4.15 m
a- Max. digging reach	10.64	11.22	11.98
b- Max. digging reach at ground level	10.43	11.03	11.80
c- Max. digging depth	6.79	7.49	8.34
c'- Max depth of bucket hinge pin	5.10	5.80	6.65
d- Max.digging height	10.33	10.49	10.75
d'- Max. height of bucket hinge pin	8.81	8.98	9.26
e- Max dumping clearance	7.12	7.29	7.57
f - Min. dumping clearance	3.32	2.62	1.77
g- Max. vertical digging wall digging depth	5.94	6.57	7.29
h- Min. front swing radius	4.38	4.29	4.37
i - Horizontal digging stroke at ground level	4.25	5.79	7.21
j - Digging depth for 8' (2.4 m) flat bottom	6.61	7.31	8.21
Bucket capacity SAE heaped m^3	1.6	1.4	1.2

Digging Force

Unit: kN (kgf)

Arm length	2.60 m	Standard 3.33 m	4.15 m
Bucket digging force	221 (22,500) 242 (24,700)*	221 (22,500) 242 (24,700)*	221 (22,500) —
Arm crowding force	203 (20,700) 224 (22,800)*	165 (16,800) 181 (18,500)*	140 (14,300) —

*Power Boost engaged.

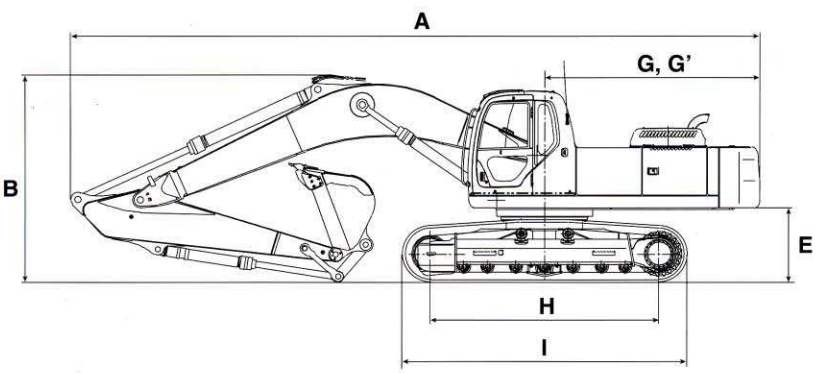


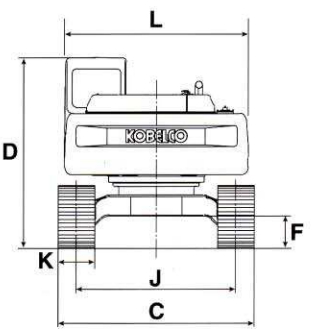
DIMENSIONS

Unit: mm

	Arm length		2.60 m	Standard 3.33 m	4.15 m
A	Overall legth		11,280	11,200	11,230
B	Overall height (to top of boom)		3,220	3,360	3,550
C	Overall width (600 mm shoe)	SK330	3,200	3,200	3,200
		SK330LC	3,200	3,200	3,200
D	Overall height (to top of cab)		3,120	3,120	3,120
E	Ground clearance of rear end*		1,200	1,200	1,200
F	Ground clearance*		500	500	500
G	Tail swing radius		3,500	3,500	3,500
G'	Distance from center of swing to rear end		3,500	3,500	3,500
H	Tumbler distance	SK330	3,730	3,730	3,730
		SK330LC	4,050	4,050	4,050
I	Overall length of crawler	SK330LC	4,650	4,650	4,650
		SK330LC	4,980	4,980	4,980
J	Track gauge	SK330	2,600	2,600	2,600
		SK330LC	2,600	2,600	2,600
K	Shoe width		600/800/900		
L	Overall width of upperstructure		3,000	3,000	3,000

* Without including height of shoe lug.



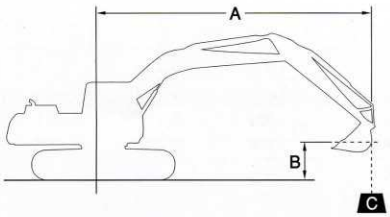


OPERATING WEIGHT AND GROUND PRESSURE

In standard trim, with standars boom, 3.33 m arm, and 1.4 m^3 SAE heaped bucket.

Shape			Triple grouser shoe (even height)		
Shoe width		mm	600	800	900
Overall width	mm	SK330	3,200	3,400	3,500
		SK330LC	3,200	3,400	3,500
Ground pressure	kPa (kg/cm^2)	SK330	67 (0.69)	52 (0.53)	47 (0.47)
		SK330LC	63 (0.63)	49 (0.50)	44 (0.45)
Operating weight	kg	SK330	33,300	34,500	34,900
		SK330LC	33,800	35,100	35,500

LIFTING CAPACITIES



Rating over front

Rating over side or 360 degrees

A - Reach from swing centerline to bucket hook
B - Bucket hook height above/below ground
C - Lifting capacities in kilograms
• Max. discharge pressure: 34.3 MPa (350 kg/cm²)

SK330 Standard Arm: 3.33 m Bucket: 1.4 m³ SAE heaped 1,040 kg Shoe: 600 mm

B \ A		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m	
7.5 m	kg									*5,590	*5,590		
6.0 m	kg									*5,990	*5,990		
4.5 m	kg							*7,490	*7,490	*6,540	*6,540	*5,740	4,790
3.0 m	kg			*12,230	*12,230	*12,000	*12,000	*8,840	*8,840	*7,260	6,290	*6,360	4,620
1.5 m	kg			*7,120	*7,120	*14,290	12,830	*10,100	8,370	*7,980	5,960	6,380	4,440
G. L.	kg			*10,700	*10,700	*15,370	12,240	*10,940	7,960	8,260	5,710	6,230	4,310
-1.5 m	kg	*11,210	*11,210	*15,310	*15,310	*15,390	12,060	*11,200	7,760	8,120	5,580		
-3.0 m	kg	*15,660	*15,660	*20,700	*20,700	*14,520	12,130	*10,780	7,750	8,120	5,580		
-4.5 m	kg			*17,400	*17,400	*12,600	*12,410	*9,410	7,940				
-6.0 m	kg					*8,830	*8,830						

SK330 Standard Arm: 3.33 m Bucket: 1.4 m³ SAE heaped 1,040 kg Shoe: 800 mm

B \ A		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m	
7.5 m	kg									*5,590	*5,590		
6.0 m	kg									*5,990	*5,990		
4.5 m	kg							*7,490	*7,490	*6,540	*6,540	*5,740	4,950
3.0 m	kg			*12,230	*12,230	*12,000	*12,000	*8,840	*8,840	*7,260	6,490	*6,360	4,780
1.5 m	kg			*7,120	*7,120	*14,290	13,230	*10,100	8,630	*7,980	6,160	6,600	4,600
G. L.	kg			*10,700	*10,700	*15,370	12,640	*10,940	8,230	*8,500	5,910	6,460	4,470
-1.5 m	kg	*11,210	*11,210	*15,310	*15,310	*15,390	12,450	*11,200	8,030	8,410	5,780		
-3.0 m	kg	*15,660	*15,660	*20,700	*20,700	*14,520	12,520	*10,780	8,020	*8,270	5,780		
-4.5 m	kg			*17,400	*17,400	*12,600	*12,600	*9,410	8,200				
-6.0 m	kg					*8,830	*8,830						

SK330 Long Arm: 4.15 m Bucket: 1.2 m³ SAE heaped 930 kg Shoe: 600 mm

B \ A		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m	
6.0 m	kg											*4,760	*4,760
4.5 m	kg									*5,750	*5,750	*5,350	4,880
3.0 m	kg			*16,160	*16,160	*10,200	*10,200	*7,800	*7,800	*6,540	6,390	*6,260	4,660
1.5 m	kg			*12,370	*12,370	*12,880	*12,880	*9,230	8,510	*7,360	6,010	6,180	4,250
G. L.	kg	*6,080	*6,080	*11,650	*11,650	*14,600	12,300	*10,330	7,980	8,040	5,690	6,060	4,130
-1.5 m	kg	*9,490	*9,490	*14,220	*14,220	*15,230	11,890	*10,920	7,660	8,020	5,480	6,040	4,120
-3.0 m	kg	*13,000	*13,000	*18,060	*18,060	*14,930	11,810	*10,900	7,550	7,930	5,400		
-4.5 m	kg	*16,920	*16,920	*19,790	*19,790	*13,680	*11,970	*10,120	7,620	*7,670	5,470		
-6.0 m	kg			*15,560	*15,560	*11,090	*11,090	*8,090	7,920				

SK330 Long Arm: 4.15 m Bucket: 1.2 m³ SAE heaped 930 kg Shoe: 800 mm

B \ A		1.5m		3.0 m		4.5 m		6.0 m		7.5 m		9.0m	
6.0 m	kg											*4,760	*4,760
4.5 m	kg									*5,750	*5,750	*5,350	5,040
3.0 m	kg			*16,160	*16,160	*10,200	*10,200	*7,800	*7,800	*6,540	*6,540	*5,790	4,830
1.5 m	kg			*12,370	*12,370	*12,880	*12,880	*9,230	8,780	*7,360	6,210	*6,260	4,600
G. L.	kg	*6,080	*6,080	*11,650	*11,650	*14,600	12,700	*10,330	8,240	*8,040	5,890	6,410	4,410
-1.5 m	kg	*9,490	*9,490	*14,220	*14,220	*15,230	12,290	*10,920	7,930	8,310	5,680	6,280	4,290
-3.0 m	kg	*13,000	*13,000	*18,060	*18,060	*14,930	12,200	*10,900	7,810	8,220	5,600	6,270	4,280
-4.5 m	kg	*16,920	*16,920	*19,790	*19,790	*13,680	*12,360	*10,120	7,890	*7,670	5,670		
-6.0 m	kg			*15,560	*15,560	*11,090	*11,090	*8,090	*8,090				

SK330LC Standard Arm: 3.33 m Bucket: 1.4 m³ SAE heaped 1,040 kg Shoe: 600 mm													
A / B		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m	
7.5 m	kg									*5,590	*5,590		
6.0 m	kg									*5,990	*5,990		
4.5 m	kg							*7,490	*7,490	*6,540	*6,540	*5,740	4,860
3.0 m	kg			*12,230	*12,230	*12,000	*12,000	*8,840	*8,840	*7,260	6,370	*6,360	4,690
1.5 m	kg			*7,120	*7,120	*14,290	13,000	*10,100	8,480	*7,980	6,050	*6,730	4,510
G. L.	kg			*10,700	*10,700	*15,370	12,410	*10,940	8,080	*8,500	5,800	*6,970	4,380
-1.5 m	kg	*11,210	*11,210	*15,310	*15,310	*15,390	12,230	*11,200	7,880	*8,660	5,670		
-3.0 m	kg	*15,660	*15,660	*20,700	*20,700	*14,520	12,300	*10,780	7,870	*8,270	5,670		
-4.5 m	kg			*17,400	*17,400	*12,600	12,580	*9,410	8,050				
-6.0 m	kg					*8,830	*8,830						

SK330LC Standard Arm: 3.33 m Bucket: 1.4 m³ SAE heaped 1,040 kg Shoe: 800 mm													
A / B		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m	
7.5 m	kg									*5,590	*5,590		
6.0 m	kg									*5,990	*5,990		
4.5 m	kg							*7,490	*7,490	*6,540	*6,540	*5,740	5,030
3.0 m	kg			*12,230	*12,230	*12,000	*12,000	*8,840	*8,840	*7,260	6,590	*6,360	4,860
1.5 m	kg			*7,120	*7,120	*14,290	13,430	*10,100	8,770	*7,980	6,260	*6,730	4,690
G. L.	kg			*10,700	*10,700	*15,370	12,840	*10,940	8,360	*8,500	6,010	*6,970	4,550
-1.5 m	kg	*11,210	*11,210	*15,310	*15,310	*15,390	12,650	*11,200	8,170	8,660	5,880		
-3.0 m	kg	*15,660	*15,660	*20,700	*20,700	*14,520	12,720	*10,780	8,160	*8,270	5,880		
-4.5 m	kg			*17,400	*17,400	*12,600	*12,600	*9,410	8,340				
-6.0 m	kg					*8,830	*8,830						

SK330LC Long Arm: 4.15 m Bucket: 1.2 m³ SAE heaped 930 kg Shoe: 600 mm													
A / B		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m	
6.0 m	kg											*4,760	*4,760
4.5 m	kg									*5,750	*5,750	*5,350	4,950
3.0 m	kg			*16,160	*16,160	*10,200	*10,200	*7,800	*7,800	*6,540	6,480	*5,790	4,730
1.5 m	kg			*12,370	*12,370	*12,880	*12,880	*9,230	8,630	*7,360	6,100	*6,260	4,510
G. L.	kg	*6,080	*6,080	*11,650	*11,650	*14,600	12,480	*10,330	8,090	*8,040	5,770	*6,650	4,320
-1.5 m	kg	*9,490	*9,490	*14,220	*14,220	*15,230	12,060	*10,920	7,780	*8,430	5,560	*6,830	4,200
-3.0 m	kg	*13,000	*13,000	*18,060	*18,060	*14,930	11,980	*10,900	7,660	*8,400	5,480	*6,430	4,190
-4.5 m	kg	*16,920	*16,920	*19,790	*19,790	*13,680	*12,140	*10,120	7,740	*7,670	5,560		
-6.0 m	kg			*15,560	*15,560	*11,090	*11,090	*8,090	8,040				

SK330LC Long Arm: 4.15 m Bucket: 1.2 m³ SAE heaped 930 kg Shoe: 800 mm													
A / B		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m	
6.0 m	kg											*4,760	*4,760
4.5 m	kg									*5,750	*5,750	*5,350	5,120
3.0 m	kg			*16,160	*16,160	*10,200	*10,200	*7,800	*7,800	*6,540	*6,540	*5,790	4,910
1.5 m	kg			*12,370	*12,370	*12,880	*12,880	*9,230	8,910	*7,360	6,310	*6,260	4,680
G. L.	kg	*6,080	*6,080	*11,650	*11,650	*14,600	12,900	*10,330	8,380	*8,040	5,990	*6,650	4,500
-1.5 m	kg	*9,490	*9,490	*14,220	*14,220	*15,230	12,490	*10,920	8,060	*8,430	5,780	*6,830	4,380
-3.0 m	kg	*13,000	*13,000	*18,060	*18,060	*14,930	12,400	*10,900	7,950	*8,400	5,700	*6,430	4,360
-4.5 m	kg	*16,920	*16,920	*19,790	*19,790	*13,680	*12,560	*10,120	8,020	*7,670	5,770		
-6.0 m	kg			*15,560	*15,560	*11,090	*11,090	*8,090	*8,090				

Notes:

1. Do not attempt to lift or hold any load that exceeds these rated values at their specified load radii and heights.
2. Lifting capacities assume a machine standing on a level, firm, and uniform supporting surface. Operator must make allowance for job conditions such as soft or uneven ground, out of level conditions, side loads, sudden stopping of loads, hazardous conditions, inexperienced personnel, weight of various other buckets, lifting slings, attachments, etc.
3. Ratings at bucket lift hook.
4. The above rated loads are in compliance with SAE Hydraulic Excavator Lift Capacity Rating Standard J 1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Rated loads marked with an asterisk(*) are limited by hydraulic capacity rather than tipping load.
5. Operator should be fully acquainted with the Operators' Manual & Maintenance instruction before operating this machine. Rules for safe operation of equipment should be followed at all times.

STANDARD EQUIPMENT

- Engine, MITUBISHI 6D16-TLE1, turbocharged Diesel with intercooler
- Working mode selector (Manual mode, Assist mode, or Breaker mode)
- Power Boost
- Swing shockless valve
- Sequenced arm regeneration system
- Straight propel system
- Automatic shift down two-speed travel
- Automatic engine deceleration
- Sealed track links
- Heavy duty batteries (2 × 12V - 120AH/5hr)
- 24 volt to 12 volt converter
- Starting motor (24V - 5.5 kW), 35 amp alternator
- Removable clean out screen for radiator
- Tow eyes
- Aluminum hydraulic oil cooler
- Auto warm up system
- Automatic engine shut-down for low engine oil pressure
- Horn, electric
- One rearview mirror or hand rail
- Two front and two rear working lights
- Swing flashers
- Grease-type track adjusters
- Automatic swing brake
- Two control levers, pilot-operated
- Cab, all-weather sound suppressed type with ashtray, cigarette lighter, cab light (interior), coat hook, floor mat, 7-way adjustable suspension seat, retractable seat belt, head rest, hand rails, heater and defroster, intermittent windshield wiper with double-spray washer, sunshade, skylight, tinted safety glass, pull-type front window and removable lower front window
- Instrument panel: Easy-to-read multi-display monitor
- Auotmatic air conditioner

OPTIONAL EQUIPMENT

- Radio, AM/FM Stereo with speakers
- Wide range of buckets
- Various optional arms
- Wide range of shoes
- Travel alarm
- Boom safety valve
- Arm safety valve
- Double element air cleaner
- Front guard protective structures
- Additional hydraulic circuit

Note: Standard and optional equipment may vary. Consult your KOBELCO dealer for specifics.

Little Details Make a Big Difference...

Utilized, large-size battery box

Easy-to-clean floor mat

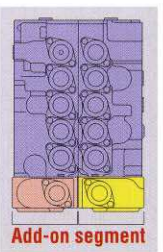
Sun visor protects the operator from overhead sunlight

Anti-Theft Key (Option)

The ignition key is encoded with an ID number to help ensure safe engine and hydraulic system operation and protect against theft.

FOPS-Compliant Head Guard (Option)

The cab clears ISO-rated FOPS standards when fitted with the optional extra-strength head guard that protects against falling objects.



Convenient Add-On Valve (Option)

An optional add-on valve, with simplified hosing, can easily be fitted to the main control valve.

• Optional overheating prevention device for additional 2-way circuit is also available.

Note: This catalog may contain attachments and optional equipment that are not available in your area. And this catalog contains photographs of machines with specifications that differ from those of machines sold in your areas.Please consult your nearest KOBELCO distributor for those items you may require. Due to our policy of continual product improvements all designs and specifications are subject to change without advance notice.

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