KOBELCO

HYDRAULIC EXCAVATORS

SK450 • SK450 LC MARK VI

Bucket Capacity: 1.4 m³ - 2.3 m³ SAE heaped
Engine Power: 235 kW (320 PS/315 HP) SAE NET at 2,000 min⁻¹
Operating Weight: 46,600 kg - SK450-VI 47,400 kg - SK450LC-VI

SK480 • SK480 LC MARK VI

HEAVY-DUTY APPLICATION

Bucket Capacity: 1.4 m³ - 2.3 m³ SAE heaped
Engine Power: 235 kW (320 PS/315 HP) SAE NET at 2,000 min⁻¹
Operating Weight: 48,000 kg - SK480-VI 48,800 kg - SK480LC-VI

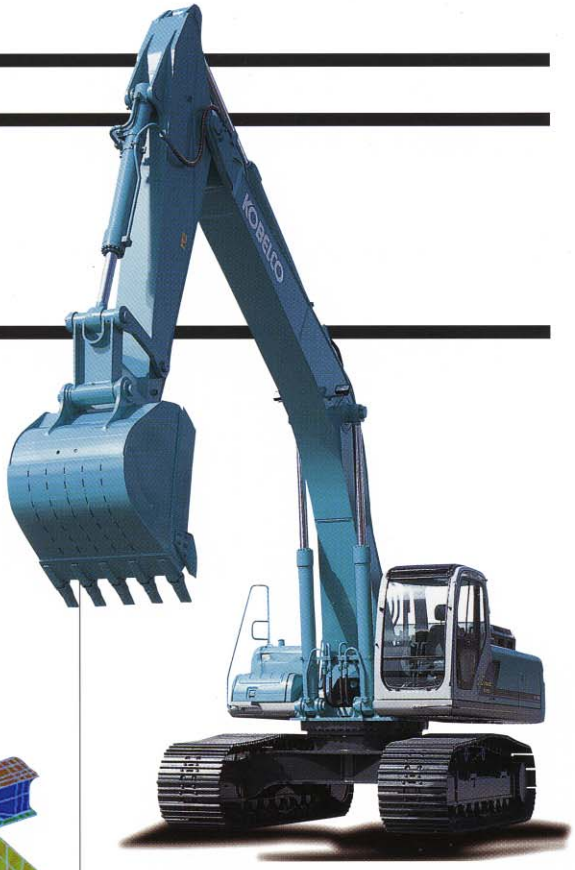
Dynamic Acera


KOBELCO
DISCOVER
WHAT DYNAMIC IS
ALL ABOUT!

Dynamic Acera

The Dynamic Acera Series excavators from KOBELCO are specially designed to give you an ideal combination of power and versatility. With their large, efficient engine, enhance 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 lip behind the controls and discover DYNAMIC is all about!

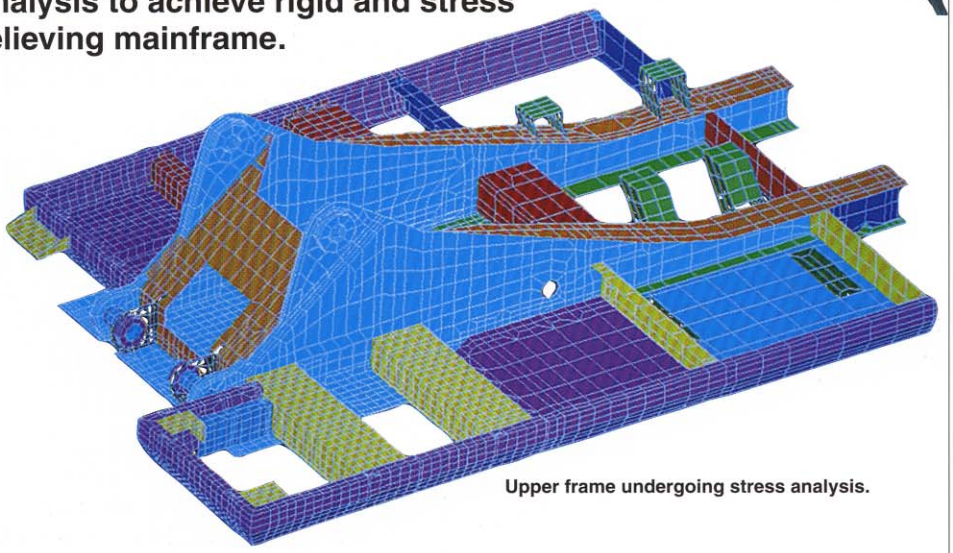
Performance You Can Count On!



UPPER STRUCTURE

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.

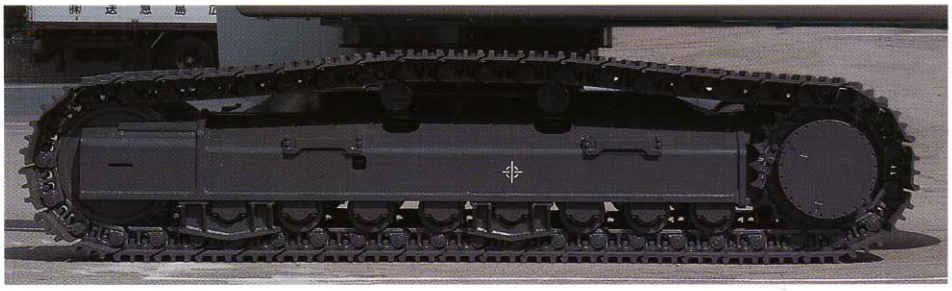


Upper frame undergoing stress analysis.

LOWER STRUCTURE

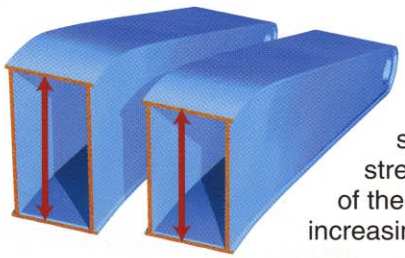
Tough Rigid Lower Frame

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.



Stronger Boom and Arm

The cross-section of the mid-boom is larger, resulting in a 20% increase in the section modulus (a common measure of strength). The steel plate used in the main portion of the arm is one grade thicker than before, increasing the section modulus by an additional 8%.

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: 264 kN
Power Boost: 289 kN

Arm crowding force:
Normal: 202kN
Power Boost: 221 kN

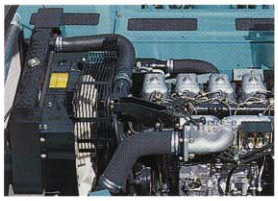
Automatic Travel Speed Shift

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

High mode: 5.6km/h
Low mode: 3.5km/h

Powerful and Efficient Engine

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



Engine output:
235 kW at 2,000 min^{-1}

HEAVY-DUTY APPLICATION (SK480•SK480LC)

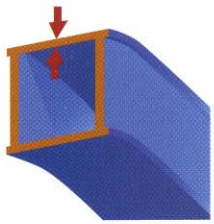
Stronger Construction Boosts Reliability Even Further

To Maximize Machine Performance in Harsh Environments

• Full Undercover to Reinforce Main Carriage
A 6 mm steel undercover covers the entire bottom surface of the upper frame, protecting the engine, pumps and other components from rock fragments, boulders, iron bar, and other debris.

• Lower Undercover
A 9 mm steel cover protects the lower frame from rocks, steel bar, and other materials that could damage hydraulic piping and other components.

• Dust Net
In demolition configuration, the dust net protects not only the oil cooler and radiator, but also the condenser and intercooler, thus preventing clogging that can reduce heat exchange functions.



Reinforced HD Boom and HD Arm

The steel plate used in the SK480 is one grade thicker overall. Bushings have also been added to the boom top. In addition, the rock guard and steel bars are standardized to the underneath of the arm top.

Reinforced HD Bucket

HD bucket is specially designed bucket for heavy-duty digging. Thicker steel plate is used on the cutting edge and attachment lugs, and other features include: cast lip shrouds; large side cutters; and specialized teeth.

• Piping for Nibblers and Breakers (Optional)
Clamps are now bolted in two places, and a rubber guard has been added to reduce vibration.

To Protect the Safety of the Operator and Onsite Workers

• Cab with Brackets and Cab Guard
In rock crushing configuration with added head guard, the cab complies with ISO FOPS evaluative standards; if a front guard is further added, it complies with OPG cab standards.

Specialized Track Shoes for Rock Crushing

The track shoes are thicker and the lugs are higher to provide even more protection against breakage and loss.

More Track Guides

Four durable track guides are fitted on each side to prevent wheel dislocation and protect the rollers. Attached with bolts, they are easy to install and remove.

New Working Modes Improve Productivity and Reduce Fuel Consumption!

A Assist Mode

The advanced new cotrol system uses two onboard computers to match the oil flow and engine rpm with the job at hand for optimal fuel economy.

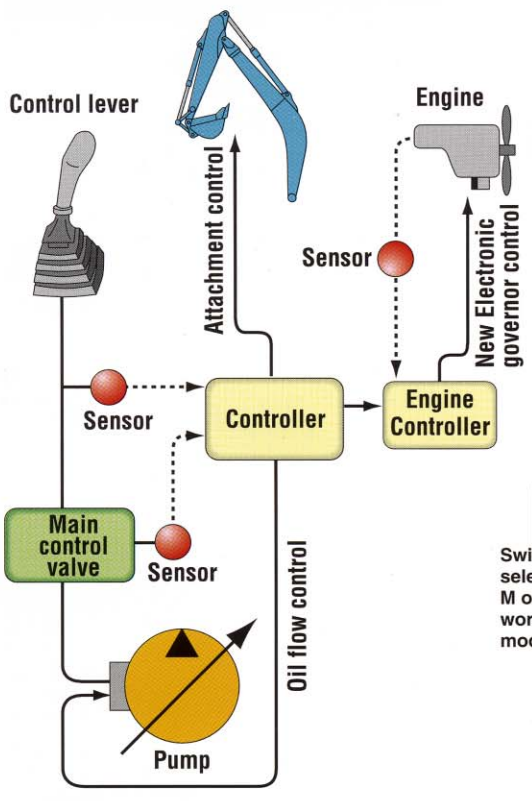
M Manual Mode

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

B 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



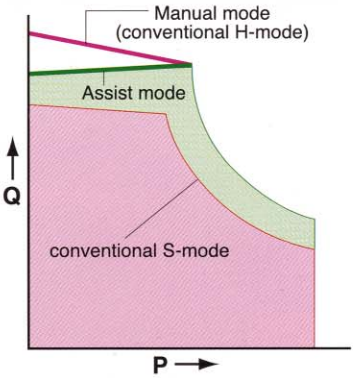
Assist Mode Features

Matched with electronic direct governor control, Assist mode lowers the engine rpm when the workload comes to high idle. Assist mode works to reduce noise and fuel consumption, thus reduce emission for better environment.

New Electronic Governor Control System

Electronic governor control operates in all working modes through separate engine controller. By carefully controlling the quantity of fuel injected into the engine, it avoids wasteful use of fuel and limits emissions.

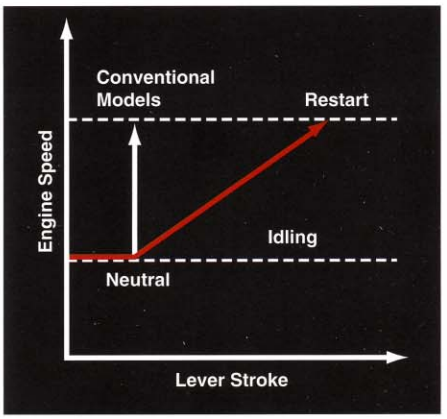
PQ Curve



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

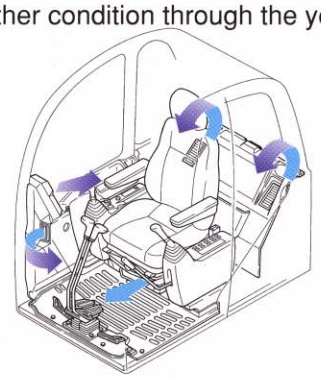
Full Visibility

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.**
❸ **The cab clears ISO-rate FOPS standards when fitted with the optional extra strength head guard that protects against falling objects. (Standard for SK480•SK480LC)**

Large-Capacity Air Conditioner

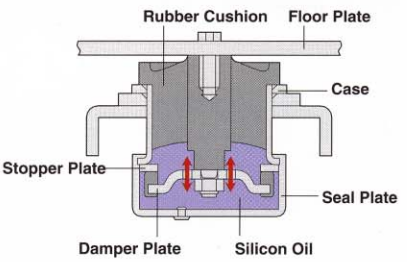
A non-CFC automatic air conditioner ensures comfortable work environment. With fresh-air vents, a face grill, and a front defroster, it maintains constant comfort in any weather condition through the year.



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 75dB.

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!

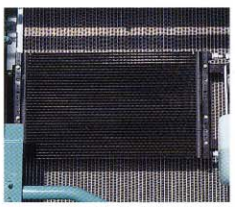
Dedicated Engine Controller Boosts Reliability

To prevent engine stalls due to electrical failure, a separate controller is used to control the engine governor. In the unlikely event that the ITCS system malfunctions, engine control remains unaffected so that work can continue. In addition, the sensors and harnesses connected to the engine controller are arranged in two separate systems to guard against cut lines and malfunctioning sensors.

• Diagnostic System for Engine Controller
A warning lamp is installed on the back of the left control box to help diagnose engine trouble. The lamp lights and sounds an alarm if the electrical system malfunctions, and analyzes where the breakdown occurred.

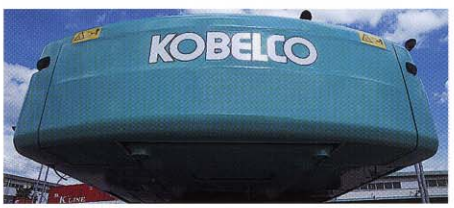
Easy Removable Radiator

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.

*** Three-part Counterweight**
The corners of the counterweight are cast to protect from damage caused by accidental contact with obstacles.



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)

Durable Boom Foot

• The self-greasing bushing in the boom foot and both sides of boom cylinder fixtures prolong service interval and reduce wear.

• Components such as the hood and engine cover are made of steel for durability and easy boy repairs.

• The highly durable urethane paint finish maintains its attractive appearance longer.

• New Bucket Clatter Adjustment Mechanism
Plate-activated push-out type bushings prevent bucket clatter due to wear and fatigue. Adjustment is easy.

SPECIFICATIONS

ENGINE

Model:	Mitsubishi 6D24-TLE2A
Type:	Direct injection, water-cooled, 4-cycle diesel engine with intercooled turbocharger
No. of cylinders:	6
Bore and stroke:	130 mm × 150 mm
Displacement:	11,950 cc
Rated power output:	Net 235 kW at 2,000 rpm (ISO 9249) Net 320 PS at 2,000 rpm (JIS D1005)
Max. torque:	Net 1,245 N•m at 1,200 rpm (ISO 9249) Net 127 kg•m at 1,200 rpm (JIS D1005)

HYDRAULIC SYSTEM

Pump:	Two axial-piston, variable displacement pumps
Max. discharge flow:	2 × 370 liters/min
Max. discharge pressure:	
Boom, arm and bucket:	31.4 MPa (320 kg/cm^2)
Power boost:	34.3 MPa (350 kg/cm^2)
Propel circuit:	34.3 MPa (350 kg/cm^2)
Swing circuit:	25.5 MPa (260 kg/cm^2)
Control circuit :	4.9 MPa (50 kg/cm^2)
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 a heavy, insulated floor mat. Large, tinted safety-glass windows, with pull-type upper front window and removable lower front window. Six-way adjustable dual-slide seat with wrist-action levers, electronic rotary-type engine throttle, safety-lock lever, and easy-to-read multi-display monitor. Ventilated, pressurized climate control system that brings 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-step motor for each side
Brakes:	Independent, disc parking brake for each side
Track shoes:	47 each side (SK450/SK480) 50 each side (SK450LC/SK480LC)
Travel speed:	5.6/3.5 km/h
Drawbar pulling force:	403 kN (41,100 kgf)
Gradeability:	37° (75 %)
Ground clearance:	515 mm

SWING SYSTEM

Brake:	Hydraulic, locking automatically when the swing conrol lever is in the neutral position
Parking brake:	Hydraulic disc brake
Swing speed:	9.0 min^{-1} (rpm)
Tail swing radius:	3,650 mm
Min. front swing radius:	5,140 mm (3.45 m arm)

BOOM, ARM AND BUCKET

Boom cylinders:	170 mm × 1,590 mm
Arm cylinder:	190 mm × 1,970 mm
Bucket cylinder:	160 mm × 1,410 mm

REFILLING CAPACITIES AND LUBRICATIONS

Fuel tank:	650 liters
Cooling system:	48 liters
Engine oil:	494 liters
Track drives:	2 × 15 liters
Swing drives:	39 liters
Hydraulic oil:	
Tank (oil level)	405 liters
Hydraulic system:	660 liters

ATTACHMENTS

Backhoe bucket and arm combination

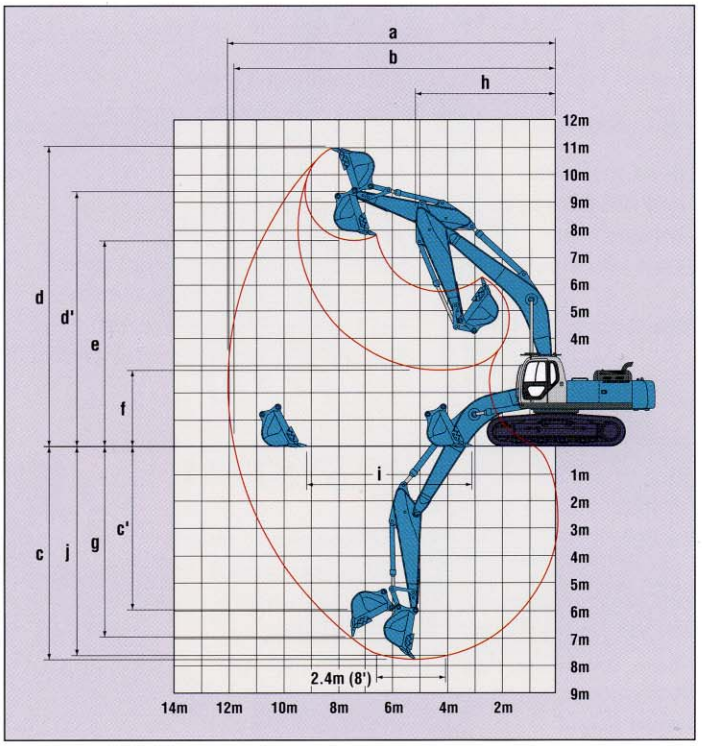
		Backhoe bucket					
Uses		Normal digging			Light-duty		Heavy-duty
Bucket capacity (SAE heaped)	m^3	1.40	1.6	1.8	2.1	2.3	1.8
Bucket capacity (Struck)	m^3	1.0	1.2	1.3	1.5	1.7	1.3
Bucket opening width	**With side cutter** mm	1,225	1,375	1,520	1,665	1,815	1,500
	Without side cutter mm	1,100	1,250	1,390	1,540	1,685	1,480
No. of teeth		4	4	5	5	5	4
	3.0 m arm	○	○	○	○	△	○
	3.45 m arm	○	○	○	△	×	○
	4.04 m arm	○	○	△	×	×	×
	4.90 m arm	○	△	×	×	×	×
	3.45 m arm (HD)	○	○	○	△	×	○

○ Recommended △ Loading only × Not recommended HD: Heavy Duty

WORKING RANGES

Unit: m

Range \ Arm	Short Arm 3.00m	Standard Arm 3.45m	Semi-long Arm 4.04m	Long Arm 4.90m
a - Max. digging reach	11.77	12.07	12.59	13.48
b - Max. digging reach at ground level	11.54	11.84	12.38	13.28
c - Max. digging depth	7.35	7.80	8.39	9.25
c'- Max. depth of bucket hinge pin	5.57	6.02	6.61	7.47
d - Max. digging height	11.17	10.95	11.09	11.71
d'- Max. height of bucket hinge pin	9.51	9.37	9.53	10.09
e - Max. dumping clearance	7.73	7.59	7.75	8.31
f - Min. dumping clearance	3.24	2.79	2.20	1.34
g - Max. vertical wall digging depth	6.53	6.95	7.43	8.40
h - Min. swing radius	5.28	5.14	5.20	5.30
i - Horizontal digging stroke at ground level	5.20	6.09	7.10	8.28
j - Digging depth for 2.4m (8') flat bottom	7.19	7.66	8.26	9.05
Bucket capacity SAE heaped m^3	2.10	1.80	1.60	1.40



Digging Force

Unit: kN (Metric Ton)

Arm length	Short Arm 3.00m	Standard Arm 3.45m	Semi-long Arm 4.04m	Long Arm 4.90m
Bucket digging force	264/*289 26.9/*29.5	264/*289 26.9/29.5	264 26.9	264 26.9
Arm crowding force	222/*242 22.6/*24.7	202/*221 20.6/*22.5	181 18.4	157 16.0

*Power Boost engaged.

DIMENSIONS

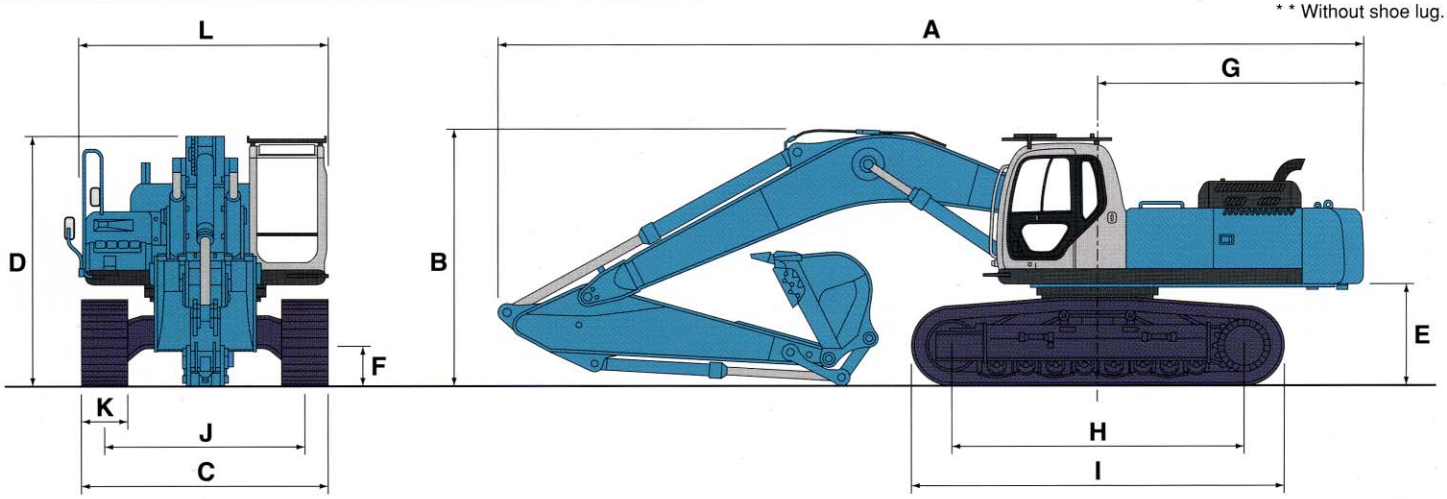
Unit: mm

	Arm length	Short Arm 3.0m	Standard Arm 3.45m	Long Arm 4.9m
A	Overall length	11,980		
B	Overall height (to top of boom)	3,720	3,510	4,330

C	Overall width	3,350/3,550/3,650
D	Overall height (to top of cab)	3,320
E	Ground clearance of rear end**	1,350

F	Ground clearance**	515
G	Tail swing radius	3,650
H	Tumbler distance	4,060 4,400*
I	Overall length of crawler	5,130 5,460*
J	Track gauge	2,750
K	Shoe width	600/800/900
L	Overall width of superstructure	3,300

* Asterisk shows figures for SK450LC/SK480LC.
** Without shoe lug.

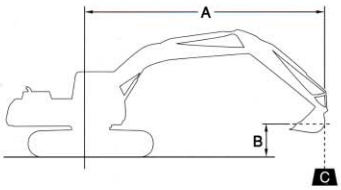


OPERATING WEIGHT AND GROUND PRESSURE

In standard trim, with standard boom, 3.45 m arm, and 1.80 m^3 SAE heaped bucket

Shape			Triple grouser shoes (even height)		
Shoe width	mm		600	800	900
Overall width	mm		3,350	3,550	3,650
Ground pressure	kPa (kg/cm²)	SK450/SK450 LC	83 (0.85)/79(0.80)	64 (0.66)/61(0.62)	58 (0.59)/55(0.56)
		SK480/SK480 LC	87 (0.88)/82(0.83)	67 (0.68)/63(0.64)	60 (0.61)/56(0.58)
Operating weight	kg	SK450/SK450 LC	45,200/45,900	46,600/47,400	47,100/48,000
		SK480/SK480 LC	47,000/47,700	48,000/48,800	48,500/49,400

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 and
• Max. discharge pressure: 34.3 MPa (350 kg/cm²)

SK450 Standard Arm: 3.45 m Bucket: 1.80 m³ SAE heaped 1,440 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											*8,080	6,930
6.0 m	kg											*8,680	6,800
4.5 m	kg									*10,260	8,990	*9,280	6,550
3.0 m	kg					*20,270	18,600	*14,430	11,980	*11,630	8,450	9,510	6,250
1.5 m	kg					*23,870	17,100	*16,580	11,150	12,300	7,970	9,210	5,970
G.L.	kg			*9,150	*9,150	*23,230	16,450	16,940	10,620	11,910	7,620	8,970	5,750
-1.5 m	kg	*11,240	*11,240	*15,200	*15,200	*25,450	16,290	16,670	10,380	11,700	7,430	8,850	5,640
-3.0 m	kg	*17,020	*17,020	*22,090	*22,090	*24,330	16,420	16,660	10,370	11,680	7,410	8,890	5,680
-4.5 m	kg			*30,600	*30,600	*21,910	16,790	*16,570	10,580	11,880	7,590		
-6.0 m	kg					*17,430	*17,430	*12,960	11,100				

SK450LC Standard Arm: 3.45 m Bucket: 1.80 m³ SAE heaped 1,440 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											*8,080	7,260
6.0 m	kg											*8,680	7,130
4.5 m	kg									*10,260	9,400	*9,280	6,880
3.0 m	kg					*20,270	19,420	*14,430	12,530	*11,630	8,860	*10,060	6,580
1.5 m	kg					*23,870	17,920	*16,580	11,700	*12,920	8,380	*10,820	6,300
G.L.	kg			*9,150	*9,150	*23,230	17,270	*17,980	11,170	*13,890	8,030	10,610	6,080
-1.5 m	kg	*11,240	*11,240	*15,200	*15,200	*25,450	17,110	*18,500	10,930	13,880	7,840	10,480	5,970
-3.0 m	kg	*17,020	*17,020	*22,090	*22,090	*24,330	17,230	*18,110	10,920	13,860	7,820	10,520	6,010
-4.5 m	kg			*30,600	*30,600	*21,910	17,600	*16,570	11,130	*12,720	8,000		
-6.0 m	kg					*17,430	*17,430	*12,960	11,650				

SK480 Standard Arm: 3.45 m Bucket: 1.80 m³ SAE heaped 1,440 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											*7,650	6,480
6.0 m	kg											*8,110	6,350
4.5 m	kg									*9,680	8,530	*8,700	6,080
3.0 m	kg					*19,530	18,000	*13,780	11,470	*11,010	7,960	9,040	5,770
1.5 m	kg					*23,060	16,400	*15,880	10,580	11,790	7,450	8,720	5,460
G.L.	kg			*8,720	*8,720	*22,800	15,700	16,350	10,010	11,370	7,070	8,470	5,230
-1.5 m	kg	*10,810	*10,810	*14,770	*14,770	*24,590	15,540	16,060	9,750	11,150	6,870	8,340	5,120
-3.0 m	kg	*16,590	*16,590	*21,660	*21,660	*23,480	15,680	16,050	9,750	11,130	6,850	8,390	5,160
-4.5 m	kg			*29,600	*29,600	*21,090	16,080	*15,840	9,980	11,350	7,050		
-6.0 m	kg					*16,650	*16,650	*12,260	10,540				

SK480LC Standard Arm: 3.45 m Bucket: 1.80 m³ SAE heaped 1,440 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											*7,650	6,810
6.0 m	kg											*8,110	6,680
4.5 m	kg									*9,680	8,940	*8,700	6,410
3.0 m	kg					*19,530	18,820	*13,780	12,010	*11,010	8,370	*9,450	6,090
1.5 m	kg					*23,060	17,220	*15,880	11,120	*12,270	7,850	*10,210	5,790
G.L.	kg			*8,720	*8,720	*22,800	16,520	*17,240	10,560	*13,220	7,480	10,110	5,560
- 1.5 m	kg	*10,810	*10,810	*14,770	*14,770	*24,590	16,350	*17,750	10,300	13,340	7,270	9,980	5,440
-3.0 m	kg	*16,590	*16,590	*21,660	*21,660	*23,480	16,490	*17,360	10,290	13,320	7,260	10,020	5,490
-4.5 m	kg			*29,600	*29,600	*21,090	16,890	*15,840	10,520	*12,050	7,450		
-6.0 m	kg					*16,650	*16,650	*12,260	11,080				

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.
6. Capacities apply only to the machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.

STANDARD EQUIPMENT

- Engine, MITSUBISHI 6D24-TLE2A, diesel engine with intercooled turbocharger
- 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
- Starting motor (24V - 5.5 kW), 35 amp alternator
- Removable clean out screen for radiator
- Tow eyes
- Aluminum hydraulic oil cooler
- Double element air cleaner
- Auto warm up system
- Automatic engine shut-down for low engine oil pressure
- Horn, electric
- One rearview mirror on right side deck
- 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, air conditioner 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
- 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...

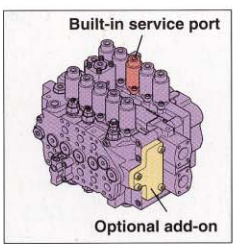
Utilized, large-size battery box

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.



Convenient Auxiliary Valves

Built-in service port is an integral part of main control valve. An optional add-on valve, with simplified hosing, can easily be fitted to the main control valve for more versatility.

• 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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