

KOBELCO®

Your competitive edge.

SK480_{LC}

WT 108,045 lb

HP 315 @ 2,000 RPM

BKT CAP 1.5-4.0 yd³



Dynamic Acera Hydraulic Excavator

FEATURES



CAB & CONTROLS

The Industry's Largest Cab

We've expanded the cab by 18% — making it the largest in the industry — to give the operator lots of elbow room while ensuring that each and every control is ergonomically positioned for maximum convenience and unrivaled productivity. Our design specialists also increased the total cab glass surface area by 36%, to make the operator feel more connected with the world outside and designed the controls so it's easy for operators to get in and out of the cab.



Climate-Control Air Conditioning

This large-capacity system can effortlessly generate an impressive 18,253 BTUs (1.52 tons) of cool air or 20,237 BTUs of heat, to rapidly reach and maintain the operator's desired temperature. Five vents are carefully placed at foot level, chest level and to the rear, with one of the vents at the front right capable of being directed at the operator's face, like a refreshing breeze, and another at the window, like a defroster.

Viscous Silicon-Filled Cab Mounts

By filling these sealed mounts with viscous silicon, we help eliminate the shocks and vibrations that can fatigue an operator and degrade his productivity over a long shift.

AM/FM Radio

A 2-speaker AM/FM stereo radio, with operator pre-set station selections, is standard.

Adjustability = Productivity

The adjustable, 7-position suspension seat lets any operator get completely comfortable, regardless of size or shape. The seat suspension can be adjusted to compensate for the operator's weight. The front and rear of the seat can be adjusted up and down. The angle of seatback recline is adjustable as is the front to back location of the seat. The arm rests adjust up and down and the head rest adjusts forward/backward as well as up/down. We designed the front window so the operator can easily position it to his liking: down and in place, or stored overhead up and out of the way. The bottom glass also can be easily removed and stored inside the cab.

Adjustable-Height Control Levers

Because operators come in all different heights, we designed an adjustable height feature into our pilot control levers. By adjusting the lever height to three different heights, the operator doesn't have to feel uncomfortable no matter if he is short, average or tall.

There's certainly nothing trivial about all this effort because clearly, a relaxed, comfortable operator will be able to focus all his energies on the precise demands of the job. The more he focuses on the job, the more productive he'll be — hour after hour, day after day.

Mode selector switch changes Engine power and speed

Assist Mode

This setting puts the excavator into an economy mode and provides engine speed and pump flow to yield approximately 90% of maximum productivity. It is ideal for general utility work in crowded residential areas and also provides increased fuel economy and lower noise emissions. Constant engine rpm is maintained under varying load conditions for outstanding production efficiency.



Manual Mode

This default mode maximizes output for the heavy operations that require the excavator's full performance. It delivers maximum speed and power for operations such as truck loading, trenching, mass excavation and high-speed travel.

Breaker Mode

The Breaker Mode allows the operator to adjust the SK480LC's maximum pump flow to match a manufacturer's recommended flow rate for an attachment such as a breaker or nibbler/breaker, right from the cab. Once the desired flow rate is set, the volume of hydraulic oil in the breaker circuit will not exceed the adjusted level, even if the operator changes to the Assist Mode or the Manual Mode.

Intelligent Total Control System (ITCS)

Rapid responsiveness is designed into the SK480LC. Our ITCS software improves productivity while ensuring that every part of this excavator feels like it is a natural extension of the operator: precise, productive and high performing.

Auto-Acceleration System

This advanced system ever-so-smoothly eases engine RPMs from 1,000 RPM to full speed in direct, proportional response to the operator's control lever movements. The result: either a very deliberate acceleration for extremely precise operations, or an instant surge to full power.

PRODUCTIVITY



EXCEPTIONAL ENGINE

Rock-Solid, Reliable, Mitsubishi Engine Meets "Tier II" Emission Standards

We've chosen the rock-solid, reliable Mitsubishi 6D24-TLA2B engine to power the Dynamic Acera SK480LC. That's because this design has been carefully engineered for exceptional performance over a long working life. Since each Kobelco dealer also offers certified Mitsubishi support, you enjoy one-stop repair and maintenance convenience that helps you minimize downtime and keep your excavators on the job even longer. It's this kind of performance that can give you a competitive advantage over the long run. Each Mitsubishi engine comes with a tremendous support program:

- The base warranty, which includes parts, labor, and mileage, covers defects in materials and workmanship for 1 year/unlimited hours or 2 years/2,000 hours, whichever comes first.
- Standard, extended coverage for major components, 3 years/10,000 hours.
- Extended warranty protection can be purchased beyond the base warranty period in variable years and hours through Kobelco's Ultracare Program.



Electronic Engine Control System

The SK480LC's Mitsubishi engine features a state-of-the-art electronic control system. This control system utilizes a computer to control the quantity and timing of fuel injection to the engine. Because the computer responds faster than a mechanical-type governor to constantly changing engine loads during the digging cycle, the engine is more fuel efficient and the emissions are cleaner.

Incredibly High Horsepower

The mighty Mitsubishi power plant that propels our SK480LC generates 315 net horsepower, an incredibly high rating in this class. And the more power these engines generate, the more productivity you generate. All the while, these super-efficient engines are designed to ensure maximum fuel economy and comply with worldwide emissions requirements.

Auto Warm-Up System

We installed an automatic warm-up system that cuts the time necessary for the engine and the hydraulic systems to reach their optimum performance levels.

HYDRAULIC PERFORMANCE

The Industry's Best Lift Capability

Nothing in its class outlifts our SK480LC — over the front or side — and we can prove it. We've increased the SK480LC's stability by up to 7% over the front *and* by 9% over the side. We even bolstered our upper revolving frame and undercarriage so they could handle bigger loads, thereby, increasing the machine's overall weight. And should you need it, the Dynamic Acera's heavy-lift system can be switched on for an increased capacity at close radius with no time limit. These increases give the SK480LC the ability to handle large pipe, trench boxes or your most demanding jobs — without breaking a sweat.



SK480_{LC}

The Industry's Highest Breakout Force

Each SK480LC excavator boasts 10.6% higher arm forces than our previous model (SK400LC IV), making it the highest in its class. Likewise, each SK480LC features higher bucket forces than before, 4.5% higher, moving to the top of the category for brute force performance as well. When equipped with the standard 11'4" (3.45 m) arm, the bucket digging force is 57,500 lb (256 kN) and the arm crowding force is 48,100 lb (214 kN).



Because instant power on demand is so critical to your ability to tackle the really tough jobs, we give you all the power you need — for as long as you need it. Even when a Dynamic Acera is operating at its normal capacity, your operator can boost it by another 10% simply by pressing the Power Boost button on the right-hand control lever. Unlike competitive systems — which seem to be more concerned with their structural shortcomings than your need for sustained power — Dynamic Acera excavators are designed to operate at their highest power levels for as long as you need them to. Bottom line: more power to you.

Swing Priority

This exclusive system automatically and instantly delivers full swing power during combined swing/arm operations — with no special switches to select — making quick work of jobs like side digging and backfilling.

Super-Strong Booms and Arms

To complement our enhanced lift capabilities, we redesigned the booms and arms. We reinforced them with very thick plates that increase rigidity by 11% to handle the massive new digging forces. We also added vertical reinforcing bars onto the arm's rock guard to make it even more resistant to damage. Additionally, both the boom and arm have been preconfigured with tapped blocks for auxiliary piping, making them more adaptable to your long-term needs.

Boom and Arm Holding Valves

Operators often have to hold pipe or other heavy objects stationary while other crew members complete their work. To make sure these heavy loads don't budge, we've engineered our boom and arm holding valves to minimize attachment drift.

Add-On Attachment Valves

Our engineers increased this excavator's functionality by designing it with an expandable main control valve. Up to three additional valves can be attached as options. Now it is much easier to install optional attachments.

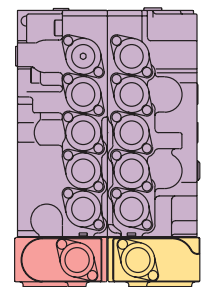
- Accommodates optional bi-directional and low-flow valves with full pressure regulation.
- Breaker, breaker/nibbler and low-flow can all be installed on the SK480LC without disassembling the valve.
- Flow to the bi-directional valve is switchable from single or double flow from the operators cab.

Breaker Valve with Flow Control

Every excavator in the Dynamic Acera line features a breaker valve that protects your equipment investment by allowing pre-set maximum breaker flow rates — so operators are less likely to damage your excavator or attachments through over-aggressive use.

Better Hoses, Better Seals

The metal hydraulic tubing in and around the main control valve has been replaced with flexible, long-lasting hoses that are easier to maintain. We also replaced the metal-to-metal seals with flexible O-ring seals (ORS) that not only seal better, but are more commonly available, easier to fix and longer lasting.



Breaker Valve Optional Valve

PERFORMANCE



TREMENDOUS TRAVELER

Independent Travel

When it's placed in Independent Travel, the SK480LC dedicates one pump strictly to travel, ensuring a smooth, constant propel speed without deviation during simultaneous travel/attachment operations. So even when an operator is carefully moving a large pipe across a job site, our independent travel mode means he can focus on that pipe without having to worry about his travel speed being affected.

The World's Speed Champ

The SK480LC really moves! Its travel motors give you a choice of a high-speed setting — at **3.5 mph** (5.6 km/h), the world's fastest for this class — or a high torque setting — 2.2 mph (3.5 km/h) for close-quarters movement. The drawbar pull has been increased to 90,600 lb. (403 kN), the highest in its class. Now you can get in and out of tough situations in no time at all.



UNCOMMON UNDERCARRIAGE

Stronger Crawler Frame

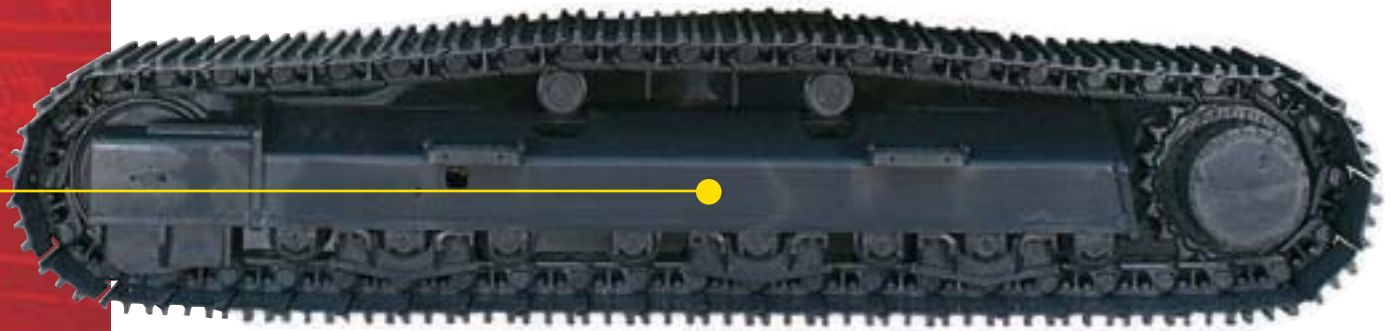
By thickening the plates that support our 3-piece crawler frame, Kobelco engineers were able to increase its sectional strength by 20%. This further enhances the rigidity of that portion of the frame protecting our strategic idler housing area. All of this careful design work pays off by helping your SK480LC stand up to tough operating conditions for many years to come.

X-Shaped Carbody

The modified X-shape carbody is the ideal design for resisting the distortions that can result from the exceptional forces exerted by constant heavy lifting and severe traveling conditions. Our carbody axles are welded to the crawler frame along an unusually wide area, connecting from the bottom plate to the top surface of the crawler frame. This all adds up to more operational stability and operator confidence when working on those demanding jobs.

Long-Life Components

The Dynamic Acera's heavy-duty idlers, lower rollers and carrier rollers are all lifetime-lubricated — to make sure that these critical components keep operating dependably over any surface, over a very long working life. The track links feature flexible seals to keep dirt out and initial lubrication in.



SK480_{LC}

SIMPLE SERVICING

Optional Hydraulic Counterweight Removal System

The SK480LC's optional hydraulic counterweight removal system enables one person to quickly and easily remove or install the counterweight and eliminates the need of auxiliary lift equipment. A remote control device allows operation of the system from a distance.



Self-Diagnostic Capabilities

The best way to deal with problems is to avoid them, which is why we've built a self-diagnostic function into the computer system. It constantly gathers and displays up to 68 different service items, to help ensure small problems don't turn into big expenses. This even includes checking hydraulic pressures conveniently from the operators cab.

100-Event Fault Code Memory

We've eliminated the need to use tools, gauges or laptop computers to remotely retrieve data for recent system faults. Now up to 100 fault codes, trouble locations and hours of each event are all accessible from the cab's control console, reducing downtime and keeping your excavator operating longer.

Friction-Inhibiting Bushings

Kobelco engineering has substantially increased both the durability and longevity of the SK480LC's boom foot and boom-hoist cylinders. Our design engineers came up with special, wear-resistant brass bushings fortified with graphite inserts: a long-lasting solid lubricant that inhibits friction and, along with your routine maintenance procedures, helps maximize the life of these critical components.

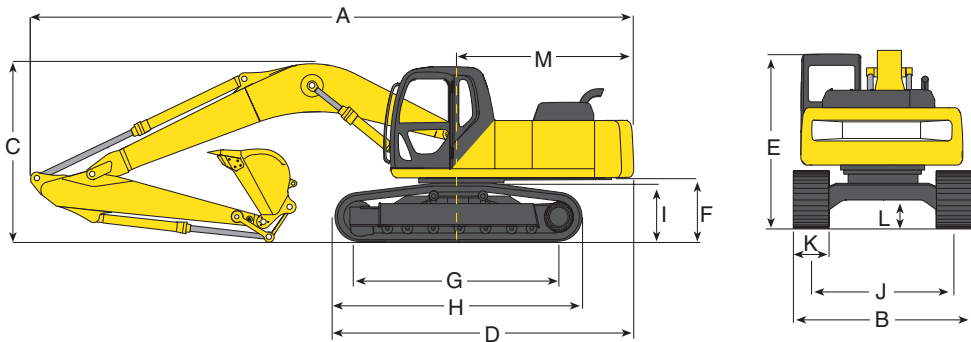


Easy-Maintenance Radiator

Now you can remove the radiator without having to drain the hydraulic system, thanks to a new design that makes the radiator and oil cooler systems independent of each other. We've built in adequate space — about four inches — between the radiator and the oil cooler so it's easy to access either component for servicing. Or to just hose off any debris that has accumulated on the protective dust screen separating them.



SPECS



DIMENSIONS

Unit: ft in (m)

ARM LENGTH	11' 4"	(3.45 m)
A Overall length	39' 4"	(11.98 m)
B Overall width (with 900 mm shoe)	12' 0"	(3.65 m)
C Overall height (to top of boom)	11' 6"	(3.51 m)
D Basic machine length	20' 11"	(6.38 m)
E Overall height (to top of cab)	10' 11"	(3.32 m)
F Ground clearance of rear end*	4' 5"	(1.35 m)
G Center distance of tumblers	14' 5"	(4.40 m)
H Overall length of crawler	17' 11"	(5.46 m)
I Crawler height at tumbler center	3' 11"	(1.20 m)
J Track gauge	9' 0"	(2.750 m)
K Width of crawler shoe	35.4"	(900 mm)
L Ground clearance of undercarriage	20.3"	(515 mm)
M Tail swing radius	12' 0"	(3.65 m)

*Excludes height of grouser bar.

HYDRAULIC SYSTEM

Pumps	2 variable displacement + 1 fixed displacement	
Max discharge flow	2 x 97.7 + 7.9 US gal/min (2 x 370 + 30 l/min)	
Operating pressure:		
Implement	4,550 psi	(31.4 MPa)
Travel	4,980 psi	(34.3 MPa)
Swing	3,700 psi	(25.5 MPa)
Power Boost/Heavy Lift	4,980 psi	(34.3 MPa)
Pilot control	710 psi	(4.9 MPa)
Control valves	6 spool	

PERFORMANCE

Travel speed	3.5/2.2 mph (5.6/3.5 km/h)
Swing speed	9.0 rpm
Gradeability	35° (70%)
Drawbar pulling force	90,600 lb (403 kN)
Swing torque	118,009 lb-ft (160 kN • m)

BUCKET SELECTION CHART

Bucket Duty	Capacity (SAE)		Width		Bucket Weight lb.	Arms		
	Cubic Yard	(m)	Inches	(m)		11' 4"	13' 3"	16' 1"
General Purpose	1.5	(1.146)	30	(.762)	3,640	H	H	H
	2.0	(1.529)	36	(.914)	2,825	H	H	M
	2.375	(1.815)	42	(1.066)	3,035	H	H	L
	2.75	(2.102)	48	(1.219)	3,225	H	M	X
	3.125	(2.389)	54	(1.37)	3,380	M	L	X
	3.5	(2.675)	60	(1.52)	3,625	L	X	X
Heavy Duty	1.5	(1.146)	30	(.762)	2,840	H	H	H
	2.0	(1.529)	36	(.914)	3,040	H	H	M
	2.375	(1.815)	42	(1.066)	3,265	H	M	L
	2.75	(2.102)	48	(1.219)	3,470	H	L	X
	3.125	(2.389)	54	(1.37)	3,635	M	X	X
	3.50	(2.675)	60	(1.52)	3,895	L	X	X
Severe Duty	1.5	(1.146)	33	(.838)	3,155	H	H	M
	1.75	(1.337)	36	(.914)	3,300	H	M	L
	2.125	(1.624)	42	(1.066)	3,640	H	L	X
	2.5	(1.911)	48	(1.219)	3,950	M	X	X
	3.0	(2.293)	58	(1.473)	4,475	L	X	X

H - Used with material weight up to 3,000 lb/yd³ (1,780 kg/m³)

M - Used with material weight up to 2,500 lb/yd³ (1,483 kg/m³)

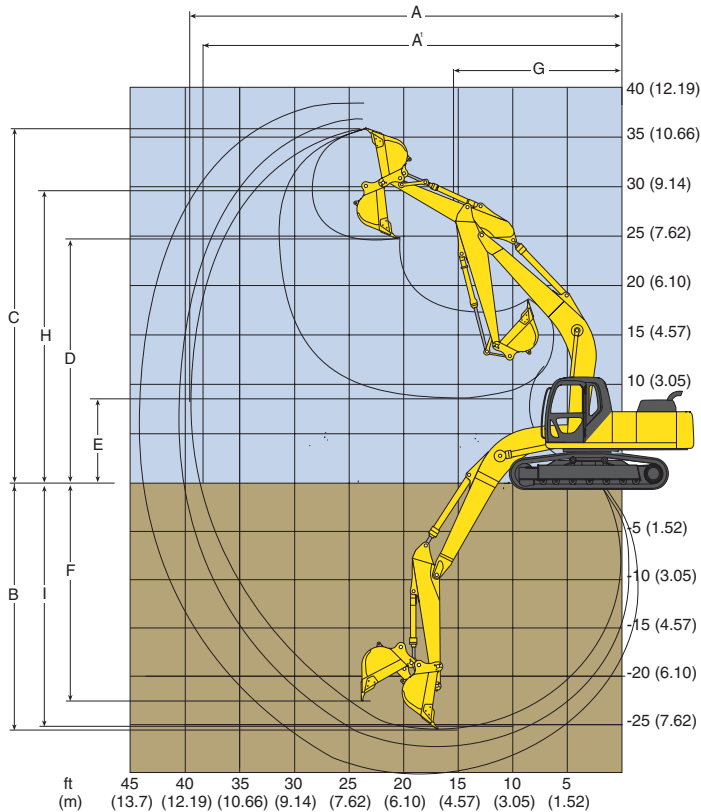
L - Used with material weight up to 2,000 lb/yd³ (1,186 kg/m³)

X - Not recommended

WORKING RANGES

Unit: ft in (m)

ATTACHMENTS	Standard Arm		Optional Arm		Optional Arm	
	11' 4" (3.45 m)	13' 3" (4.04 m)	13' 3" (4.04 m)	16' 1" (4.9 m)	16' 1" (4.9 m)	16' 1" (4.9 m)
A Max digging reach	39' 7" (12.07 m)	41' 4" (12.59 m)	41' 4" (12.59 m)	44' 3" (13.48 m)	44' 3" (13.48 m)	44' 3" (13.48 m)
A' Max digging reach at ground level	38' 10" (11.84 m)	40' 7" (12.38 m)	40' 7" (12.38 m)	43' 7" (13.28 m)	43' 7" (13.28 m)	43' 7" (13.28 m)
B Max digging depth	25' 7" (7.80 m)	27' 6" (8.39 m)	27' 6" (8.39 m)	30' 4" (9.25 m)	30' 4" (9.25 m)	30' 4" (9.25 m)
C Max digging height	35' 11" (10.95 m)	36' 5" (11.09 m)	36' 5" (11.09 m)	38' 5" (11.71 m)	38' 5" (11.71 m)	38' 5" (11.71 m)
D Max dumping clearance	24' 11" (7.59 m)	25' 5" (7.75 m)	25' 5" (7.75 m)	27' 3" (8.31 m)	27' 3" (8.31 m)	27' 3" (8.31 m)
E Min dumping clearance	9' 2" (2.79 m)	7' 3" (2.20 m)	7' 3" (2.20 m)	4' 5" (1.34 m)	4' 5" (1.34 m)	4' 5" (1.34 m)
F Max vertical wall digging depth	22' 10" (6.95 m)	24' 5" (7.43 m)	24' 5" (7.43 m)	27' 7" (8.40 m)	27' 7" (8.40 m)	27' 7" (8.40 m)
G Min front swing radius	16' 10" (5.14 m)	17' 1" (5.20 m)	17' 1" (5.20 m)	17' 5" (5.30 m)	17' 5" (5.30 m)	17' 5" (5.30 m)
H Height at min swing radius	29' 8" (9.05 m)	29' 8" (9.05 m)	29' 8" (9.05 m)	29' 8" (9.05 m)	29' 8" (9.05 m)	29' 8" (9.05 m)
I Digging depth for 8' (2.4 m) flat bottom	25' 2" (7.66 m)	27' 1" (8.26 m)	27' 1" (8.26 m)	30' 0" (9.14 m)	30' 0" (9.14 m)	30' 0" (9.14 m)



REFILLING CAPACITIES

Unit: US gal (liters)

Fuel tank	172	(650)
Hydraulic oil reservoir	107	(405)
Hydraulic system including oil reservoir	174.3	(660)
Cooling system	12.7	(48)
Lubrication: Total Volume Engine oil	13	(49)

WEIGHTS

Bucket weight: 3,170 lb (1,440 kg)

Shoe width	31.5" (800 mm)	35.4" (900 mm)
Machine overall width	11' 8" (3.55 m)	12' 0" (3.65 m)
Ground pressure	9.72 psi (67 kPa)	8.70psi (60 kPa)
Operating weight	106,900 lb (48,500 kg)	108,045lb (49,000 kg)

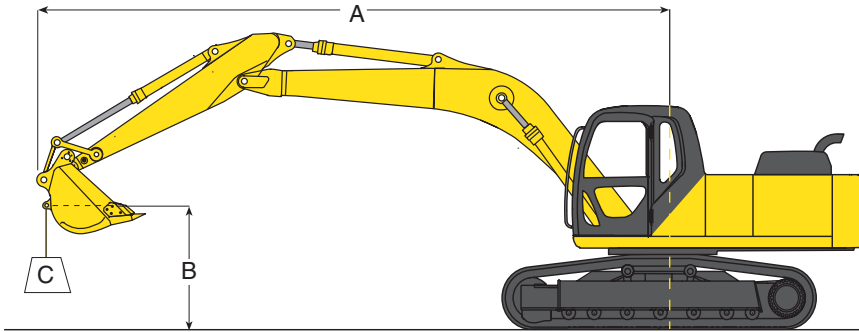
DIGGING FORCE

Unit: lb (kN)

	11' 4" (3.45 m) Arm		13' 3" (4.04 m) Arm		16' 1" (4.9 m) Arm	
	SAE	ISO	SAE	ISO	SAE	ISO
Bucket digging force	*57,500 (255.8)	64,998 (289.1)	52,500 (233.5)	59,346 (264.0)	52,500 (233.5)	59,346 (264.0)
Arm crowding force	*48,100 (214.0)	49,687 (221.0)	39,500 (175.7)	40,804 (181.5)	34,400 (153.0)	35,535 (158.1)

*Power Boost engaged

SPECS



- A** Reach swing centerline to bucket hook
- B** Bucket hook height above/below ground
- C** Lifting capacities in pounds and kilograms
 - Max discharge pressure: 4,980 psi (34.3 MPa)
 - Track shoe: 35.5" (900 mm) triple grouser
 - Boom: 23' 0" (7.0 m)

LIFTING CAPACITIES

Shoe: 35.4" (900 mm) triple grouser

SK480_{LC} Arm: 11' 4" (3.45 m) Bucket: 2.35 yd³ (1.8 m³) SAE heaped Bucket Weight: 3,170 lb (1,440 kg)

A	5' (1.5 m)		10' (3.0 m)		15' (4.6 m)		20' (6.1 m)		25' (7.6 m)		30' (9.1 m)		C	
	Over Front	Over Side/360°	Over Front	Over Side/360°	Over Front	Over Side/360°	Over Front	Over Side/360°	Over Front	Over Side/360°	Over Front	Over Side/360°		
B														
20' (6.1 m)												*18,970 *8,600	16,250 7,370	lb kg
15' (4.6 m)									*22,210 *10,070	21,450 9,720	*20,180 *9,150	15,730 7,130	lb kg	
10' (3.0 m)					*43,340 *19,650	*43,340 *19,650	*31,050 *14,080	28,640 12,990	*25,120 *11,390	20,300 9,200	*21,800 *9,890	15,100 6,840	lb kg	
5' (1.5 m)					*51,310 *23,270	41,000 18,590	*35,710 *16,190	26,820 12,160	*27,900 *12,650	19,250 8,730	*23,430 *10,620	14,490 6,570	lb kg	
Ground Level			*20,760 *9,410	*20,760 *9,410	*53,740 *24,370	39,510 17,920	*38,790 *17,590	25,640 11,630	*29,990 *13,600	18,470 8,380	*24,120 10,940	14,030 6,360	lb kg	
-5' (-1.5 m)	*25,010 *11,340	*25,010 *11,340	*34,250 *15,530	*34,250 *15,530	*55,010 *24,940	39,140 17,750	*39,950 *18,120	25,100 11,380	*30,950 *14,040	18,060 8,190	23,870 10,820	13,800 6,260	lb kg	
-10' (-3.0 m)	*38,030 *17,250	*38,030 *17,250	*49,850 *22,600	*49,850 *22,600	*52,570 *23,840	39,410 17,870	*39,070 *17,710	25,090 11,380	*30,340 *13,760	18,030 8,170			lb kg	
-15' (-4.6 m)			*65,910 *29,890	*65,910 *29,890	*47,160 *21,380	40,240 18,250	*35,560 *16,130	25,590 11,600	*27,080 *12,280	18,480 8,380			lb kg	
-20' (-6.1 m)					*36,910 *16,740	*36,910 *16,740	*27,060 *12,270	26,810 12,160					lb kg	

LIFTING CAPACITIES

Shoe: 35.4" (900 mm) triple grouser

SK480_{LC} Arm: 13' 3" (4.04 m) Bucket: 2.1 yd³ (1.6 m³) SAE heaped Bucket Weight: 2,930 lb (1,330 kg)

A	5' (1.5 m)		10' (3.0 m)		15' (4.6 m)		20' (6.1 m)		25' (7.6 m)		30' (9.1 m)		35' (10.7 m)		C
	Over Front	Over Side/360°	Over Front	Over Side/360°	Over Front	Over Side/360°	Over Front	Over Side/360°	Over Front	Over Side/360°	Over Front	Over Side/360°	Over Front	Over Side/360°	
B															
25' (7.6 m)												*16,860 *7,640	*16,860 *7,640		lb kg
20' (6.1 m)												*17,470 *7,920	16,580 7,520		lb kg
15' (4.6 m)									*20,520 *9,300	*20,520 *9,300	*18,850 *8,540	15,990 7,250	*15,710 *7,120	12,000 5,440	lb kg
10' (3.0 m)			*30,120 *13,660	*30,120 *13,660	*39,120 *17,740	*39,120 *17,740	*28,740 *13,030	*28,740 *13,030	*23,580 *10,690	20,620 9,350	*20,630 *9,360	15,280 6,930	*18,900 *8,570	11,630 5,270	lb kg
5' (1.5 m)			*16,480 *7,470	*16,480 *7,470	*48,280 *21,890	41,860 18,980	*33,850 *15,350	27,230 12,350	*26,630 *12,070	19,450 8,820	*22,470 *10,190	14,590 6,610	19,310 8,750	11,250 5,100	lb kg
Ground Level			*22,630 *10,260	*22,630 *10,260	*53,430 *24,230	39,730 18,020	*37,590 *17,040	25,800 11,700	*29,090 *13,190	18,540 8,410	*24,000 *10,880	14,030 6,360	18,990 8,610	10,960 4,970	lb kg
-5' (-1.5 m)	*22,580 *10,240	*22,580 *10,240	*32,580 *14,770	*32,580 *14,770	*49,990 *24,940	38,930 17,650	*39,500 *17,910	25,030 11,350	*30,530 *13,840	17,980 8,150	*23,760 10,770	13,680 6,200			lb kg
-10' (-3.0 m)	*33,510 *15,190	*33,510 *15,190	*45,090 *20,440	*45,090 *20,440	*53,740 *24,370	38,930 17,650	*39,450 *17,890	24,820 11,250	*30,590 *13,870	17,800 8,070	23,700 10,750	13,630 6,180			lb kg
-15' (-4.6 m)	*46,090 *20,900	*46,090 *20,900	*61,360 *27,820	*61,360 *27,820	*49,660 *22,520	39,540 17,930	*37,070 *16,810	25,110 11,390	*28,600 *12,970	18,040 8,180					lb kg
-20' (-6.1 m)			*58,080 *26,340	*58,080 *26,340	*41,570 *18,850	40,800 18,500	*31,030 *14,070	26,000 11,790							lb kg

LIFTING CAPACITIES

Shoe: 35.4" (900 mm) triple grouser

SK480 _{LC} Arm: 16' 1" (4.9 m) Bucket: 1.7 yd ³ (1.35 m ³) SAE heaped Bucket Weight: 2,760 lb (1,250 kg)																	
A	5' (1.5 m)		10' (3.0 m)		15' (4.6 m)		20' (6.1 m)		25' (7.6 m)		30' (9.1 m)		35' (10.7 m)		C		
B	Over Front	Over Side/360°	Over Front	Over Side/360°	Over Front	Over Side/360°	Over Front	Over Side/360°	Over Front	Over Side/360°	Over Front	Over Side/360°	Over Front	Over Side/360°			
25' (7.6 m)															11,400 *5,170	11,400 *5,170	lb kg
20' (6.1 m)															15,090 *6,840	12,500 5,670	lb kg
15' (4.6 m)												16,540 *7,500	16,240 7,360	15,930 *7,220	12,130 5,500	lb kg	
10' (3.0 m)										20,830 *9,440	20,830 *9,440	18,510 *8,390	15,420 6,990	17,080 *7,740	11,650 5,280	lb kg	
5' (1.5 m)			23,730 *10,760	23,730 *10,760	42,600 *19,320	42,600 *19,320	30,370 *13,770	27,780 12,590	24,190 *10,970	19,650 8,910	20,600 *9,340	14,600 6,620	18,340 *8,320	11,150 5,060	lb kg		
Ground Level	9,540 *4,320	9,540 *4,320	22,260 *10,090	22,260 *10,090	49,860 *22,610	40,070 18,170	34,970 *15,860	25,920 11,750	27,130 *12,300	18,500 8,390	22,480 *10,190	13,880 6,290	18,770 8,510	10,720 4,860	lb kg		
-5' (-1.5 m)	17,660 *8,000	17,660 *8,000	28,400 *12,880	28,400 *12,880	53,460 *24,240	38,510 17,460	37,920 *17,190	24,760 11,230	29,220 *13,250	17,710 8,030	23,460 10,640	13,370 6,060	18,460 8,370	10,440 4,730	lb kg		
-10' (-3.0 m)	26,470 *12,000	26,470 *12,000	37,680 *17,080	37,680 *17,080	54,020 *24,500	38,020 17,240	39,020 *17,690	24,230 10,990	30,130 *13,660	17,300 7,840	23,190 10,510	13,120 5,950	18,050 *8,190	10,390 4,710	lb kg		
-15' (-4.6 m)	36,680 *16,630	36,680 *16,630	50,120 *22,730	50,120 *22,730	51,830 *23,500	38,260 17,350	38,080 *17,270	24,240 10,990	29,450 *13,350	17,300 7,840	23,260 *10,540	13,210 5,990			lb kg		
-20' (-6.1 m)	49,410 *22,410	49,410 *22,410	67,300 *30,520	67,300 *30,520	46,330 *21,010	39,150 17,750	34,430 *15,610	24,780 11,240	26,170 *11,870	17,770 8,060					lb kg		
-25' (-7.6 m)				35,510 *16,100	35,510 *16,100	25,650 *11,630	25,650 *11,630									lb kg	

Notes:

- Do not attempt to lift or hold any load that exceeds these rated values at their specified load radii and heights.
- 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.
- Rated at bucket lift hook.
- The previous rated loads are in compliance with SAE Hydraulic Excavator Lift Capacity 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.
- Operator should be fully acquainted with the operator's manual before operating this machine. Rules for safe operation of equipment should be followed at all times.
- Capacities apply only to the machine as originally manufactured and normally equipped by KOBELCO Construction Machinery America LLC.

SPECIFICATION SUMMARY

GENERAL			
Operating weight with Bucket	lb (kg)	108,045	(49,000)
Bucket Capacity Range	yd ³ (m ³)	1.5-4.0	(1.15-3.1)
ENGINES			
Make and Model	Mitsubishi	6D24-TLA2B	
Displacement	cu in (l)	729	(11.95)
Bore and Stroke	in (mm)	5.12"x5.91"	(130x150)
Horsepower SAE NET	HP (kW) @ RPM	315 (235) @ 2000	
WORKING RANGES (Std. Arm)			
Standard Arm	ft in (m)	11' 4"	(3.45)
Bucket Digging Force	lb (kN)	57,500	(256)
Arm Digging Force	lb (kN)	48,100	(214)
Ground Level Reach	ft in (m)	38' 10"	(11.84)
Digging Depth	ft in (m)	25' 7"	(7.80)
Dumping Height	ft in (m)	24' 11"	(7.59)
Vertical Wall Digging Depth	ft in (m)	22' 10"	(6.95)
Max. Lift Capacity-Side	lb (kg)	18,470	(8,380)
@ 25' Radius & Ground Level-Front	lb (kg)	29,990	(13,600)
HYDRAULIC SYSTEM			
Hydraulic Pump	No & type	2VP+1FG	
Rated Oil Flow	gpm (l/m)	2x97.7+7.9	(2x370+30)
Operating Pressure	Implement-psi (MPa)	4,550	(31.4)

Travel	psi (MPa)	4,980	(34.3)
Swing	psi (MPa)	3,700	(25.5)
Heavy Lift	psi (MPa)	4,980	(34.3)
UNDERCARRIAGE			
Track Overall Length	ft in (m)	17' 11"	(5.46)
Track Overall Width w/Std. Shoe	ft in (m)	12' 0"	(3.65)
Track Shoe Selection	in (mm)	35.4"	(900)
Travel Speed	mph (km/h)	3.5/2.2	(5.6/3.5)
Draw Bar Pull	lb (kN)	90,600	(403)
Ground Bearing Pressure	psi (kPa)	8.70	(60)
Ground Clearance	in (mm)	20.3"	(515)
SWING			
Swing Speed	rpm	9.0	
Swing Torque	lb (kN-m)	118,000	(160)
Tail Swing Radius	ft in (m)	12' 0"	(3.65)
SHIPPING DIMENSIONS			
Height	ft in (m)	11' 6"	(3.51)
Width w/Std. Shoe	ft in (m)	12' 0"	(3.65)
Length	ft in (m)	39' 4"	(11.98)
REFILL CAPACITIES			
Fuel Tank	gal (l)	172	(650)
Hydraulic Reservoir	gal (l)	107	(405)

STANDARD EQUIPMENT

- AM/FM radio
- Arm, 11' 4" (3.45 m) with vertical ribbed rock guard and tapped blocks for auxiliary hydraulics
- Audible warning system for high coolant temperature, low engine oil pressure, clogged air filter and oil replacement interval filter and oil replacement interval
- Boom, 23' 0" (7.0 m)
- Boom and arm holding (anti-drift) valves
- Breaker valve with flow control
- Cab is die formed, modular steel, full-vision, sound insulated, windshield wiper, adjustable reclining operator's seat with lap safety belt, heater and defroster, cigarette lighter, ashtray, floor mat, cab light, control lever lock, tinted skylight with damper cylinder
- Climate control air conditioning
- Double pump flow for bucket in and out
- Dual element air cleaner
- Electric horn
- Emergency electronic bypass with mechanical throttle control
- Engine shuts down automatically for low oil pressure
- Heavy duty batteries (2 x 12-volt 145 AH)
- Heavy Lift
- Hydraulic track adjusters
- Independent travel
- Lifetime lubricated track rollers, idlers and sprockets, grease cylinder track adjuster, track link disassembly mechanism, long pitch sealed and strutted track links.
- Mitsubishi engine 6D24-TLA2B
- Mode selection:
 - Manual Mode--full performance, default mode
 - Assist Mode--simplified and useful economy mode
 - Breaker Mode--electronic breaker flow control
- Multi-display monitor includes: system status, engine preheat status, low engine oil pressure warning, engine coolant temperature level warning, engine air cleaner restriction, battery charging system, low fuel level, CPU error indicator lamp, hour meter, fuel level gauge, water temperature gauge and tachometer.
- Power outlet, 24 volt to 12 volt converter
- Proportional auto accel system
- Removable cleanout screen for radiator
- Removable travel levers with toe tabs

NOTE: Due to our policy of continual product improvement, all designs and specifications are subject to change without advance notice.

- Self-lubricating bushings in boom foot and boom hoist cylinders
- Service diagnostics:
 - Computer system displays 68 service items
 - 100 event fault code memory, accessible from cab's control console.
- Starting motor (24v/5.5 kW) 50 amp alternator
- Straight travel system
- Suspension seat is 7-way adjustable
- Swing and travel automatic parking brakes
- Swing flashers
- Swing priority (trenching system) functions automatically
- Swing shockless valve
- Three front and two rear work lights
- Track, 35.4" (900 mm) semi-triple grouser shoes
- Travel alarm
- Two lever control for boom, arm, bucket and swing: pilot operated wrist controls and foot pedals
- Two speed travel, automatic shift
- Viscous silicon-filled cab mounts
- Warm up function of engine and hydraulic system functions automatically

OPTIONAL EQUIPMENT

- Arm, 11' 4" severe duty with rock guard
- Arm, 13' 3" (4.04 m) with rock guard
- Arm, 16' 1" (4.90 m) with rock guard
- Belly pan guard
- Boom and arm load (lock) valves
- Breaker and piping controls
- Combined one-way or two-way auxiliary hydraulics (one or two pump) with piping and hand/foot controls
- Control pattern changer (ISO/BHL)
- Front rain visor
- High & wide lower
- Hydraulic counterweight removal system
- Large selection of buckets
- Mass Excavator attachment
- One-way auxiliary hydraulics with piping and hand/foot controls (one pump)
- Vandalism guards

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Your competitive edge.

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