

■ Two control levers, pilot-operated

■ Detachable two-piece floor mat

■ Mechanical suspension seat

■ Integrated left-right slide-type control box

■ Cab, all-weather sound suppressed type



STANDARD EQUIPMENT

■ Engine, MITSUBISHI D04FR-74kW, diesel engine with turbocharger and intercooler (Tier3-compliant engine)

■ Automatic engine deceleration

Auto Idle Stop (AIS)

Batteries (2 x 12 V - 88 Ah)

■ Starting motor (24 V - 5 kW), 50 amp alternator

■ Automatic engine shut-down for low engine oil pressure

■ Engine oil pan drain valve

■ Double element air cleaner

■ Pre-air cleaner

BUCKET

■ 0.6 m³ bucket** ■ 0.7 m³ bucket*

CONTROL

SWING SYSTEM & TRAVEL SYSTEM

■ Swing rebound prevention system

■ Straight propel system
■ Two-speed travel with automatic shift down

■ Sealed track links

■ Grease-type track adjusters

■ Automatic swing brake

■ Lower under side cover*

HYDRAULIC

■ Aluminum hydraulic oil cooler

■ Pilot line filter

OPTIONAL EOUIPMENT

- 0.6 m³ bucket*

■ Working mode selector (H-mode, S-mode and ECO-mode) ■ Power Boost

Handrails

Headrest

■ Intermittent windshield wiper with double-spray washer

Pull-up type front window and removable lower front window

■ Two front working lights (one for boom and one for cab)*

■ Easy-to-read color monitor

MIRRORS & LIGHTS

CAB & CONTROL

■ Horn, electric

Coat hook

■ Cab light (interior)

■ Luggage tray
■ Large cup holder

■ Double slide seat

■ Two rear view mirrors

■ Automatic air conditioner*

■ Emergency escape hammer ■ 24 V outlet

■ GEOSCAN

■ Breaker piping ■ N&B piping
■ HD long arm 2.84 m

*for SK145XDLC **for SK140

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

■ 700 mm HD shoe plate

Additional cab light

Automatic discharge pre-air cleaner**

■ Travel alarm

Automatic air conditioner**

Note: This catalog may contain attachments and optional equipment that are not available in your area. And it may contain 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 require. Due to our policy of continuous product improvements all designs and specifications are subject to change without notice.

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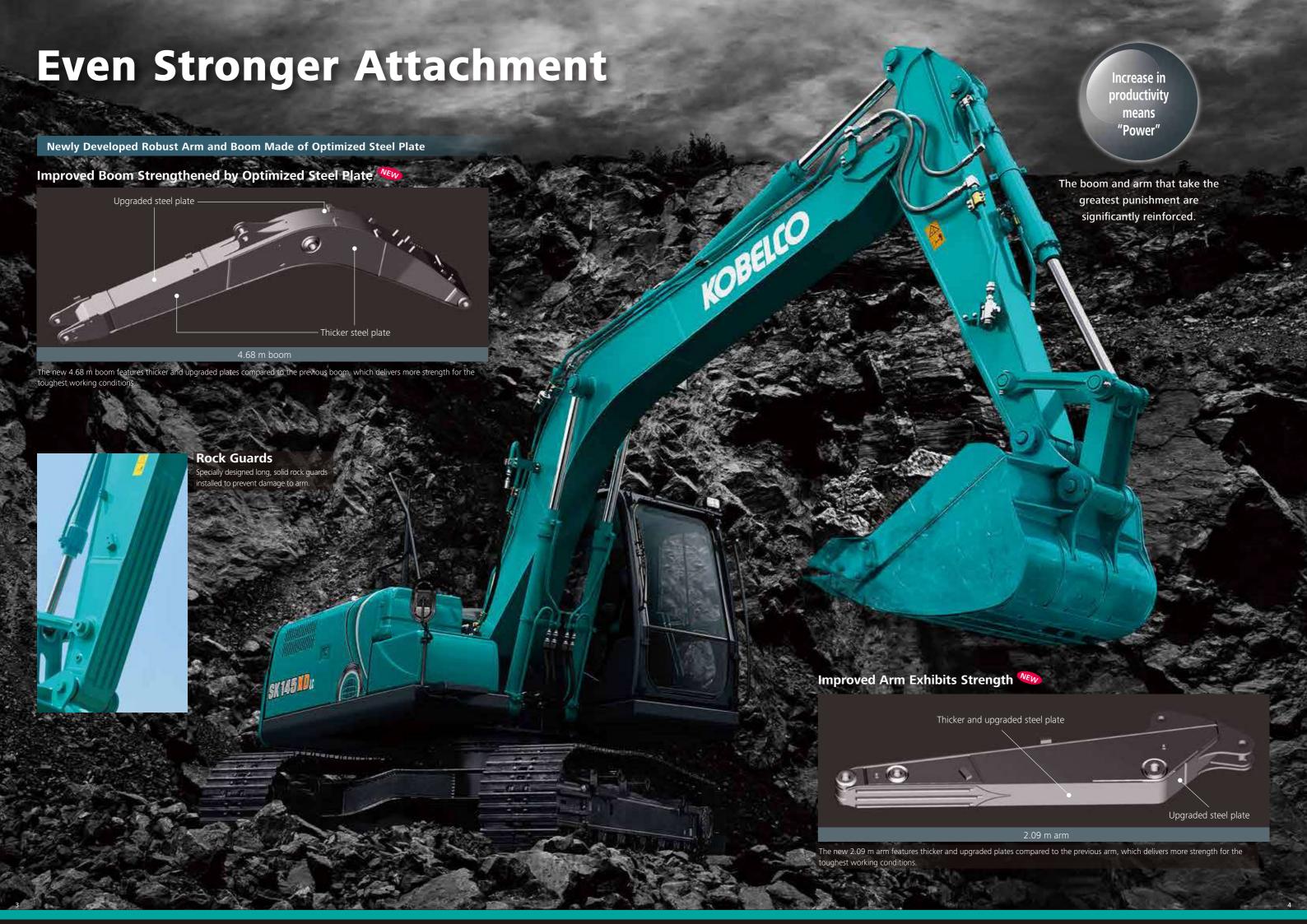
KOBELCO CONSTRUCTION EQUIPMENT INDIA PVT, LTD.

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SK140-10/SK145XDLC-10 **KOBELCO** SK 140 SK145 XDLC ■ Bucket Capacity: 0.6-0.7 m³ (ISO heaped) ■ Engine Power: 99.2 HP (74.0 kW)/2,000 min⁻¹ ■ Operating Weight: 13,000-14,100 kg *We Save You Fuel*







Crawlers Built for Unbeatable Durability





Reinforced Guide Frame

Reinforced guide frame prevents deformation caused by impact or encroaching of loose stones. (For SK145XDLC only)



Track Guides

Large, reinforced track guides are installed in one location.



Lower Frame Underside Cover

Hydraulic piping and equipment protected against damage from rubble and stony ground. (Standard for SK145XDLC)

Improved Filtration System Reliability

Clean, contaminant-free fuel and hydraulic fluid are essential to stable performance.

The improved filtration systems reduce the risk of mechanical trouble and enhance longevity and durability.

Pilot Line Filter WEW

An enlarged cartridge-type pilot filter simplifies maintenance.



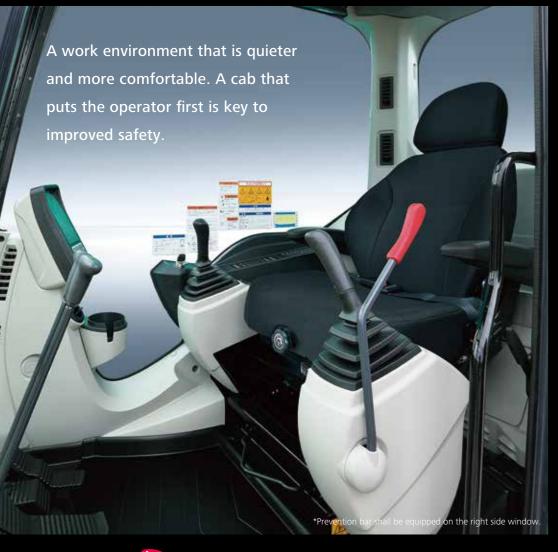
Hydraulic Fluid Filter 🚾

Recognized as the best in the industry, our premium-fine filter separates out even the smallest particles. New cover prevents contamination when changing filters.





Comfortable Cab Is Now Safer than Ever



Larger Cab is Easy NEW to Get in and out of



The expanded cab provides plenty of room for a large door, more headroom and smoother entry and exit.

A Lighter Touch Lever, VEW Means Smoother, **Less Tiring Work**

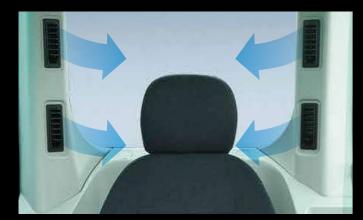


It takes 38% less effort to work the operation lever, which reduces fatigue over long working hours or continued

Larger Cab **NEW**

4% larger than the previous cab capacity. A relaxing environment allows work to be performed in comfort.

Air Conditioner **NEW Louvers behind the Seat**



The large air-conditioner has vents on the back pillars that blow from behind and to the right and left of the operator's seat. They can be adjusted to put a direct flow of cool/warm air on the operator, which means a more comfortable

Air conditioning system is equipped as standard for SK145XDLC, optional for SK140.

Super-Airtight Cab Www



The high level of air-tightness keeps dust out of the cab. (97pa earlier 27pa)

Comfort



Wide View for Operator WEW Advantage

The front window features one large piece of glass without a center pillar on the right side for a wide, unobstructed view.

Safety

Expanded Field of View for Greater Safety





Greater safety assured by rearview mirrors on left and right, and a third mirror mounted at lower right.



Interior Equipment Adds to Comfort and Convenience

More Comfortable Seat Means Higher Productivity







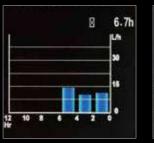


Operator-Friendly Features Include Controls that Are Easy to See, Easy to Use



Multi-Display in Color **WEW**

Brilliant colors and graphic displays are easy to recognize on the LCD multi-display in the console. The display shows fuel consumption, maintenance intervals, and more.







Breaker mode

1 Analog gauge provides an intuitive 3 Fuel consumption/Switch reading of fuel level and engine

Fuel consumption

- 4 Digging mode switch 2 Green indicator light shows low 5 Monitor display switch
- indicator for rear camera images

One-Touch Attachment **Mode Switch**

A simple touch of a button, switches the hydraulic circuit and flow amount to match attachment changes. Icons help the operator to confirm the proper configuration at a glance.

Efficient Maintenance Keeps the Machine in Peak Operating Condition

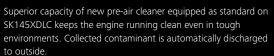
MAINTENANCE ENGINE OIL 500 495--------FUELFILTER 500 495--/--!--HYD. FILTER 1000 995--/--/--2000 4995 -- /-- /--

Examples of displaying maintenance information

Machine Information Display Function

- Displays only the maintenance information that's needed, when it's needed
- Self-diagnostic function provides early-warning detection and display of electrical system malfunctions
- Service-diagnostic function makes it easier to check the status of the machine
- Record function of previous breakdowns including irregular and transient malfunction

Pre-Air Cleaner (Optional for SK140)





More Efficient Maintenance Inside the Cab



Internal and external air conditioner filters can be easily removed without tools for cleaning.

Easy Maintenance



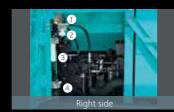
The Kobelco original filter for breaker piping is installed with breaker hydraulic line.

Maintenance Work, Daily Checks, Etc., Can **Be Done from Ground Level**

The layout allows for easy access from the ground for many daily checks and regular maintenance tasks.



Laid out for easy access to radiator and cooling system elements



- 1 Pre-fuel filter with built-in water-separator
- 2 Pilot line filter
- 3 Main fuel filter
- 4 Third filter

Easy Cleaning



Detachable two-piece floor mat with handles for easy removal. A floor drain is located under floor mat.



Engine oil pan equipped with drain

GEOSCAN

 ${\sf GEOSCAN}\ allows\ you\ to\ use\ the\ Internet\ to\ manage\ information\ from\ your\ office\ for\ machines\ operating$ in all areas. This provides a wide range of support for your business operations.





Specifications







Model	MITSUBISHI D04FR
Туре	Direct injection, water-cooled, 4-cycle diesel engine with turbocharger, intercooler
No. of cylinders	4
Bore and stroke	102 mm x 130 mm
Displacement	4.249 L
Rated power output	99.2 HP (74.0 kW)/2,000 min ⁻¹ (ISO14396)
Max. torque	375 N·m/1,600 min ⁻¹ (ISO14396)

Travel System

Travel motors		2 x axial-piston, two-step motors		
Travel brakes		Hydraulic brake per motor		
Parking brakes		Oil disc brake per motor		
Travel shoes	SK140	44 each side		
Traver Silves	SK145XDLC	46 each side		
Travel speed		5.8/3.4 km/h		
Drawbar pulling force		142 kN (ISO 7464)		
Gradeability		70% {35°}		



Hydraulic System

Pump	
Tuna	Two variable displacement pumps +
Туре	one gear pump
Max. discharge flow	2 x 130 L/min, 1 x 20 L/min
Relief valve setting	
Boom, arm and bucket	34.3 MPa {350 kgf/cm²}
Travel circuit	34.3 MPa {350 kgf/cm²}
Swing circuit	28.0 MPa {296 kgf/cm²}
Control circuit	5.0 MPa {50 kgf/cm²}
Pilot control pump	Gear type
Oil cooler	Air cooled type



Swing System

Swing motor	Axial piston motor
Brake	Hydraulic; locking automatically when the swing control lever is in neutral position
Parking brake	Oil disc brake, hydraulic operated automatically
Swing speed	11 min ⁻¹ {rpm}
Tail swing radius	2,180 mm
Min. front swing radius	2,620 mm



Cab & Control

International Comfort Cab with dust free enclosure and with internal pressure of 97pa (earlier cab 27pa). All-weather, sound-suppressed steel cab equipped with a heavy, insulated floor mat.

Two hand levers and two foot pedals for travel Two hand levers for excavating and swing Electric rotary-type engine throttle



Boom, Arm & Bucket

Boom cylinders	100 mm x 1,092 mm		
Arm cylinder	115 mm x 1,116 mm		
Bucket cylinder	95 mm x 903 mm		



Refilling Capacities & Lubrications

Fuel tank	271 L
Cooling system	16 L
Engine oil	18.5 L
Travel reduction gear	2 x 2.1 L
Swing reduction gear	1.65 L
Undraulic ail tank	104 L tank oil level
Hydraulic oil tank	160 L hydraulic system



Attachments

Backhoe bucket and combination

	11		Backhoe bucket			
Use			Normal digging			
Bucket capacity ISO heaped m³ 0.6 0.7						
Struck			0.43	0.50		
Opening width	With side cutter	mm	1,120	1,270		
	Without side cutter	mm	1,010	1,160		
No. of bucket teeth			5	5		
Bucket weight kg			540	590		
2.09 m short arm			0	0		
2.84 m long arm			_	_		





Working Ranges

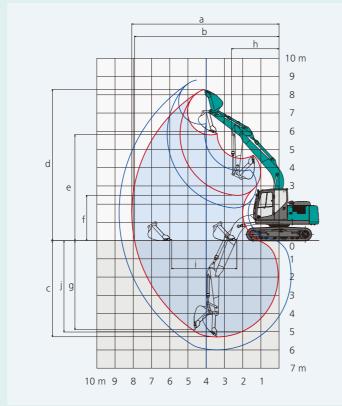
Description	1.0	0
Boom	4.6	8 m
Arm	2.09 m	2.84 m*
Range		
a-Max. digging reach	8.09	8.78
b-Max. digging reach at ground level	7.93	8.64
c- Max. digging depth	5.28	5.98
d-Max. digging height	8.3	8.82
e-Max. dumping clearance	5.81	6.39
f- Min. dumping clearance	2.49	1.8
g-Max. vertical wall digging depth	4.88	5.45
h-Min. swing radius	2.62	2.8
i- Horizontal digging stroke at ground level	3.58	4.67
j- Digging depth for 2.4 m (8') flat bottom	5.02	5.79
Bucket capacity ISO heaped m ³	0.7/0.6	_

Bucket digging force 89.2 88.9* Arm crowding force 58.3

Digging Force (ISO 6015) Unit: kN 71.9 *Figures are based on 0.38 m³ bucket.

Dimensions

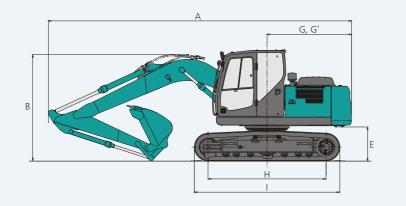
Arm length		2.09 m	2.84 m		
Α	Overall length	7,820	7,790		
В	Overall height (to top of	boom)	2,750	3,130	
C	Overall width of crawler		2,490		
D	Overall height (to top of	cab)	2,880		
Ε	Ground clearance of rear	end*	860		
		SK140	43	5	
۲	Ground clearance*	SK145XDLC	41	5	

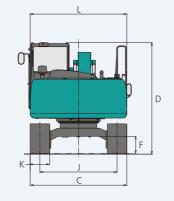


-: 2.09 m Arm -: 2.84 m Arm

			Unit: mm
G	Tail swing radius	2,180	
G'	Distance from center of s	2,180	
н	Tumbler distance	SK140	2,870
п	Tulliblei distance	SK145XDLC	3,040
ı	Overell leventh of everylen	SK140	3,580
1	Overall length of crawler	SK145XDLC	3,750
J	Track gauge	1,990	
K	Shoe width	500	
1	Overall width of upperstr	2.490	

*Without including height of shoe

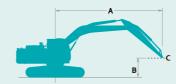




Operating Weight & Ground Pressure

In standard trim, with short boom, 2.09 m arm, and 0.7 m³ ISO heaped bucket (SK140 with 0.6 m³ bucket)

,	, ,						
Shaped			Triple grouser shoes (even height)				
Shoe width mm 500 700							
Overall width of crawler	SK140	mm	2,490	2,690			
Overall width of Crawler	SK145XDLC	mm	2,490	2,690			
Cround proceure	SK140	kPa	41	30			
Ground pressure	SK145XDLC	kPa	41	30			
Operating weight	SK140	kg	13,000	13,300			
	SK145XDLC	kg	13,800	14,100			





A: Reach from swing centerline to arm top B: Arm top height above/below ground C: Lift point Bucket: Without bucket

Relief valve setting: 34.3 MPa (350 kgf/cm²)

SK140		Boom: 4	1.68 m Arn	n: 2.09 m E	Bucket: with	out Shoe:	500 mm C	Counterwei	ght: 2,100 l	kg (Standar	d)	
	А	1.5	1.5 m		3.0 m 4.5 m		6.0 m		At Max. Reach			
		Ī		<u> </u>		<u> </u>		F		1		Radius
6.0 m	kg					*3,560	3,410			*2,530	*2,530	5.07 m
4.5 m	kg					*3,780	3,330	*2,990	2,060	*2,340	1,990	6.11 m
3.0 m	kg			*6,900	5,720	*4,600	3,100	2,980	1,990	*2,340	1,680	6.65 m
1.5 m	kg					4,430	2,850	2,870	1,890	2,370	1,560	6.81 m
G.L.	kg			*5,730	4,880	4,260	2,700	2,790	1,820	2,430	1,590	6.63 m
-1.5 m	kg	*5,670	*5,670	8,500	4,920	4,220	2,660	2,790	1,820	2,750	1,790	6.06 m
-3.0 m	kg			*7,360	5,070	4,320	2,750			3,730	2,410	4.98 m

SK140		Boom: 4	Boom: 4.68 m Arm: 2.84 m Bucket: without Shoe: 500 mm Counterweight: 2,100 kg (Standard)												
	Α	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach			
В		Ī								<u> </u>				Radius	
7.5 m	kg											*2,070	*2,070	4.49 m	
6.0 m	kg							*1,870	*1,870			*1,710	*1,710	6.04 m	
4.5 m	kg							*3,040	2,100			*1,590	*1,590	6.93 m	
3.0 m	kg			*5,270	*5,270	*3,920	3,170	3,000	2,000			*1,580	1,380	7.41 m	
1.5 m	kg			*8,080	5,210	4,470	2,880	2,860	1,870	*1,950	1,300	*1,650	1,290	7.55 m	
G.L.	kg			*6,310	4,800	4,220	2,660	2,740	1,760			*1,830	1,300	7.39 m	
-1.5 m	kg	*4,450	*4,450	8,300	4,740	4,120	2,570	2,690	1,710			*2,180	1,420	6.88 m	
-3.0 m	kg	*7,520	*7,520	*8,290	4,830	4,150	2,590					2,760	1,770	5.96 m	
-4.5 m	kg			*5,890	5,100							*3,750	2,930	4.34 m	

SK145XDL	.c	Boom: 4.68 m Arm: 2.09 m Bucket: without Shoe: 500 mm Counterweight: 2,600 kg (Semi-additional)												
A B		1.5 m		3.0 m		4.5 m		6.0 m		At Max. Reach				
		Ī	"	<u> </u>				F		1		Radius		
6.0 m	kg					*3,560	*3,560			*2,530	*2,530	5.07 m		
4.5 m	kg					*3,780	3,710	*2,990	2,320	*2,340	2,240	6.11 m		
3.0 m	kg			*6,900	6,390	*4,600	3,480	3,560	2,260	*2,340	1,910	6.65 m		
1.5 m	kg					5,330	3,230	3,450	2,160	*2,490	1,790	6.81 m		
G.L.	kg			*5,730	5,550	5,150	3,070	3,360	2,080	*2,840	1,820	6.63 m		
-1.5 m	kg	*5,670	*5,670	*8,870	5,580	5,120	3,040	3,360	2,080	3,310	2,050	6.06 m		
-3.0 m	kg			*7,360	5,740	*5,010	3,130			*4,300	2,740	4.98 m		

SK1452	KDLC	Boom: 4	Boom: 4.68 m Arm: 2.84 m Bucket: without Shoe: 500 mm Counterweight: 2,600 kg (Semi-additional)												
	A B		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		
В				1				1		F -		1		Radius	
7.5 m	kg											*2,070	*2,070	4.49 m	
6.0 m	kg							*1,870	*1,870			*1,710	*1,710	6.04 m	
4.5 m	kg							*3,040	2,360			*1,590	*1,590	6.93 m	
3.0 m	kg			*5,270	*5,270	*3,920	3,550	*3,380	2,260			*1,580	*1,580	7.41 m	
1.5 m	kg			*8,080	5,880	*4,970	3,250	3,430	2,130	*1,950	1,510	*1,650	1,490	7.55 m	
G.L.	kg			*6,310	5,470	5,120	3,030	3,310	2,030			*1,830	1,500	7.39 m	
-1.5 m	kg	*4,450	*4,450	*8,640	5,410	5,020	2,940	3,260	1,980			*2,180	1,650	6.88 m	
-3.0 m	kg	*7,520	*7,520	*8,290	5,500	5,040	2,970					*2,970	2,040	5.96 m	
-4.5 m	kg			*5,890	5,770							*3,750	3,320	4.34 m	

- 1. Do not attempt to lift or hold any load that is greater than these lift capacities at their specified lift point radius and heights. Weight of all accessories must be deducted from the above lift
- 2. Lift capacities are based on machine standing on level, firm, and uniform ground. User must make allowance for job conditions such as soft or uneven ground, out of level conditions, side loads, sudden stopping of loads, hazardous conditions, experience of personnel, etc.

 3. Arm top defined as lift point.

- 4. The above lift capacities are in compliance with ISO 10567. They do not exceed 87% of hydraulic lift capacity or 75% of tipping load. Lift capacities marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

 5. Operator should be fully acquainted with the Operator's and Maintenance Instructions before
- operating this machine. Rules for safe operation of equipment should be adhered to at all times.
- Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.
- 7. The above figures indicate machine capacity, but in practice the machine should not be used for