# **Lift Capacities**



SK130X	Standard Arm: 2.84 m Bucket: Without, Shoe: 900 mm Counterweight: 1,200 kg													
	Α	1.5	m	3.0	) m	4.5	m	6.0	m	7.5	m	At	Max. Rea	ch
В		1	<b>—</b>	-	<b>—</b>	Radius								
7.5 m	kg											*1,960	*1,960	4.88 m
6.0 m	kg							*2,410	2,400			*1,670	*1,670	6.26 m
4.5 m	kg					*3,180	*3,180	*3,070	2,380			*1,580	*1,580	7.05 m
3.0 m	kg			*5,830	*5,830	*4,100	3,550	*3,450	2,260			*1,590	1,560	7.46 m
1.5 m	kg			*7,110	5,880	*5,140	3,240	3,380	2,130	*1,940	*1,510	*1,680	1,490	7.54 m
G.L.	kg			*6,590	5,560	5,030	3,040	3,270	2,030			*1,880	1,530	7.31 m
-1.5 m	kg	*5,000	*5,000	*9,090	5,530	4,960	2,970	3,230	1,990			*2,290	1,710	6.74 m
-3.0 m	kg	*8,270	*8,270	*7,920	5,660	5,010	3,030					*3,260	2,200	5.71 m

SK130X	DL	Standard	Arm: 2.84	m Bucket	: Without,	Shoe: 700	mm Coun	terweight:	1,200 kg					
	Α	1.5	5 m	3.0	) m	4.5	m	6.0	) m	7.5	m	At	Max. Rea	ch
В			<del></del>		<b>—</b>	1	<del>-</del>		<del>-</del>		<del>-</del>	1	<del>-</del>	Radius
7.5 m	kg											*1,970	*1,970	4.84 m
6.0 m	kg							*2,360	2,310			*1,670	*1,670	6.24 m
4.5 m	kg					*3,170	*3,170	*3,070	2,280			*1,580	*1,580	7.04 m
3.0 m	kg			*5,760	*5,760	*4,080	3,420	3,390	2,170			*1,590	1,490	7.46 m
1.5 m	kg			*7,220	5,650	5,060	3,110	3,240	2,040	*1,950	1,440	*1,680	1,420	7.55 m
G.L.	kg			*6,550	5,310	4,830	2,910	3,130	1,940			*1,880	1,450	7.32 m
-1.5 m	kg	*4,940	*4,940	*9,110	5,280	4,740	2,840	3,090	1,900			*2,270	1,620	6.76 m
-3.0 m	kg	*8,180	*8,180	*7,960	5,410	4,800	2,890					*3,220	2,080	5.74 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.

- 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. 6. Lift capacities apply to only machine originally manufactured and normally equipped by
- KOBELCO CONSTRUCTION MACHINERY CO., LTD.

### STANDARD EQUIPMENT

- Engine, MITSUBISHI D04FR-74KW, diesel engine with turbocharger and intercooler
- Automatic engine deceleration
- Auto Idle Stop (AIS)
- Batteries (2 x 12V 100Ah)
- Starting motor (24V 5 kW), 50 amp alternator
- Automatic engine shut-down for low engine oil pressure
- Engine oil pan drain cock
- Double element air cleaner CONTROL
- Working mode selector (H-mode, S-mode and ECO-mode)

### **SWING SYSTEM & TRAVEL SYSTEM**

- Straight propel system
- Two-speed travel with automatic shift down
- Grease-type track adjusters
- Automatic swing brake **HYDRAULIC**

- Arm regeneration system
- Aluminum hydraulic oil cooler MIRRORS & LIGHTS
- Two rear view mirrors
- Two front working lights

### ■ Swing rebound prevention system

- Sealed & lubricated track links
- (one for boom, and one for right storage box)

### **CAB & CONTROL**

- Two control levers, pilot-operated
- Horn. electric
- Cab light (interior)
- Luggage tray
- Large cup holder
- Detachable two-piece floor mat
- Headrest
- Handrails
- Intermittent windshield wiper with double-spray washer
- Skylight
- Tinted safety glass
- Pull-up type front window and removable lower front window
- Easy-to-read multi-display color monitor
- Automatic air conditioner
- Emergency escape hammer
- **■** KOMEXS

### **OPTIONAL EQUIPMENT**

- Additional track guide
- Two cab lights
- N & B piping
- Wide range of buckets

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

- Various optional arms
- Wide range of shoes
- Logging guard

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.

Specialist equipment is needed to use this machine in demolition work. Before using it please contact your KOBELCO dealer. Due to our policy of continuous product improvements all designs and specifications are subject to change without advance notice. Copyright by KOBELCO CONSTRUCTION MACHINERY CO., LTD. No part of this catalog may be reproduced in any manner without notice.

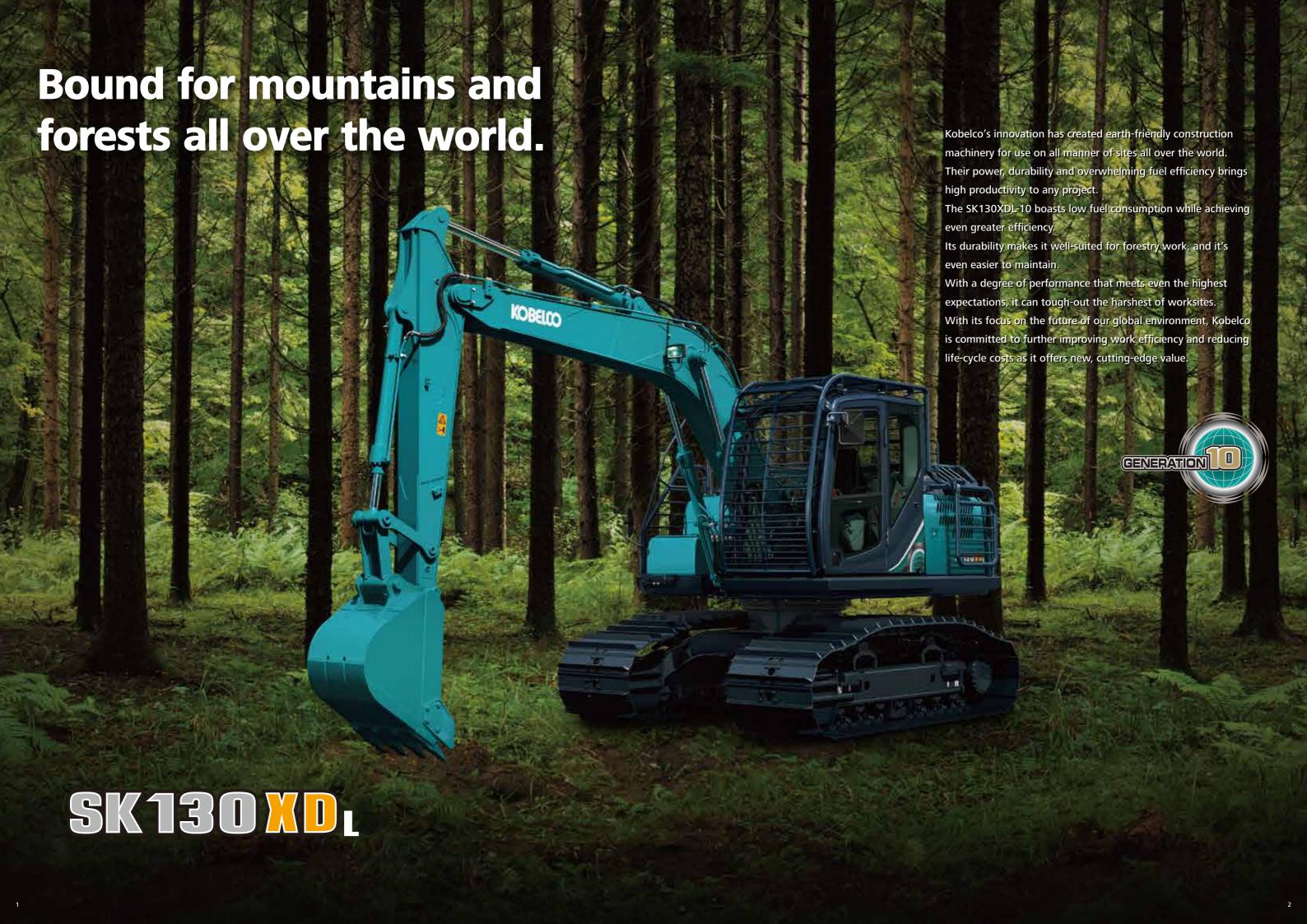
### **KOBELCO CONSTRUCTION MACHINERY CO., LTD.**

5-15, Kitashinagawa 5-chome, Shinagawa-ku, Tokyo 141-8626 JAPAN Tel: +81 (0) 3-5789-2146 Fax: +81 (0) 3-5789-2135 www.kobelcocm-global.com

Inquiries To:

Bulletin No. SK130XDL-10-SEA INDNESIA-101-2109XXEF



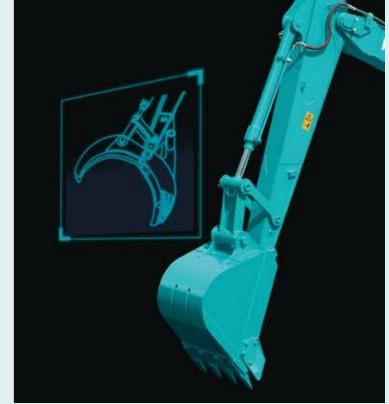


# Impressive power and unrivalled workability improve performance.



### **Get More Done Faster with Superior Operability**





### **Grapple installation**

The tip attachment can be changed to a grapple or other equipment according to the type of task, making operation on a wide variety of sites possible.

### **Improved Workability**

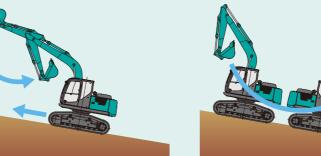
Hydraulic pressure control has been updated through the use of new components and an improved hydraulic pressure system. More powerful and easier to use, it achieves a high level of operability and efficiency.

### Powerful arm operation VEV + climbing ability

Driving power doesn't decline even when doing work with attachments while ascending slopes. Powerfully climb steep slopes even while operating the arm.

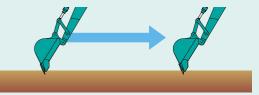
### Improved lifting and turning performance on slopes

Control of hydraulic balance between attachments and swivel parts has been optimized. Even if the boom is engaged while turning, such as when collecting trees on a slope, the turning stays smooth.



### **Speedy combined operations**

Combined attachment operations, such as horizontal pulling to operate the boom and arm at the same time, are also nimble and smooth, making it possible to work faster.



### Independent VEW driving function

The circuits of the attachment and the running gear are separated, so whether or not there are attachment operations has no effect on driving. Running speed can be maintained even while felled trees are being collected.





# High durability even in the harshest of environments.



### **Upper Structure**

### Cooling System VEW



The oil cooler has been changed from a two-layer to a one-layer type. This prevents dust from collecting in the gaps, helping to maintain the cooling function. In addition, the condenser in front of the radiator can be opened and closed, and there is a lever on the condenser bracket, making the radiator much easier to clean.

### turri everi iir riarrow spac



Side deck bumpers are fitted to protect power plant and cab, and also simplify mounting of other (optional) protective equipment.

### **Plenty of Clearance**



Increased clearance between upper frame and top of crawlers prevents wood debris building up and impeding

### Logging Guard (Option)

The logging guard has also been newly designed to coincide with the adoption of the ROPS structure cab that protects the operator in the event of a fall. The new pre-air cleaner also has a guard, with an optional cab light that can be installed inside. In addition, the shape of the bumper corner has been changed so that it fits within the rear turning radius, making it easier to turn even in narrow spaces.

# d has also ined to adoption adoption adoption adoption acture cab operator in I. The new so has a actional cab installed in, the shape orner has that it fits urning easier to

### **Reinforced Undercover**



Reinforced undercover protects the piping and other components from damage caused by accidental contact with branches, debris and other obstacles.

### Attachment/ Equipment

### Reinforced Attachments



There is a new long arm.
Additionally, lock guard
reinforcement can now be
attached to the tip.
The shape of the lower plate has
been optimized for logging work,
and the arm strength is enhanced.

### **Travel System**

# Double Support Upper Rollers

Improved support provided by new design for upper rollers reduces shaking and jolting of crawler shoes for smoother travel.



# Reinforced Guide Frame

Reinforced guide frame prevents deformation caused by impact or encroaching of loose stones.



### **One Class Higher Travel Motor**

The greater power of the travel motor gives rugged, reliable traction. The SK130XDL provides the powerful travel needed to pull log sleds or work in wetlands, on rough terrain, in woods or on farms.



■Top-class drawbar pulling force: 196kN

### **Single Grouser Shoes**

Crawlers have single grouser shoes with 58 mm lugs, instead of the usual triple grouser shoes, to stop mud clogging between the grousers. Travel is firm and fast, even across wet, muddy ground.



### **Low Ground Pressure**

Low ground pressure is assured by oversized crawler length and width, for smoother and easier transfer and travel.

■ Ground pressure: 26.0kPa

\*Values are for STD arm (2.38m) and 900mm single grouser shoes

### **Wide Shoes Ensure Plenty of Traction**



Longer Crawler Length: 3,850mm

Wider Shoe Width: (960 mm available as option) **900mm** 

# We're always pursuing fuel efficiency.

# **Efficient maintenance to** sustain high performance.

### Reduced fuel consumption in ECO-mode

### **ECO-mode: Engineered for Economy**

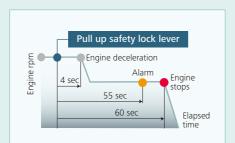
Kobelco's ECO-mode maximizes the operating efficiency of the engine and other components to achieve much greater fuel efficiency. Just press a button to choose the operation mode best suited to the task at hand and the working conditions.

Optimal operation with three modes



mode • • • Ideal balance of productivity and fuel efficiency for a range of urban engineering projects

ECO-mode • • • Minimum fuel consumption for utility projects and other work that demands precision



### AIS (Auto Idle Stop)

If the safety lock lever is lifted up, the engine will stop automatically.

This eliminates wasteful idling during standby, saving fuel and reducing CO<sub>2</sub> emissions as well.

### **Hydraulic system** engineered to reduce energy loss

Kobelco's proprietary hydraulic systems offer hydraulic line positioning that reduces friction resistance and valves designed for higher efficiency, minimizing energy loss throughout the system.

Always and forever. Yesterday, today, and tomorrow. We're obsessed with fuel efficiency

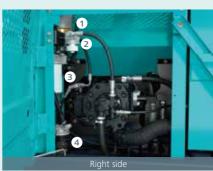
Our new ECO-mode is 20% more fuel efficient than the SK130HDL-8B H-mode.

### 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.



Simple layout for easy access to radiator and cooling system elements



 Pre-filter (with built-in water separator) 2 Pilot Line Filter 3 Main fuel filter 4 Third filter

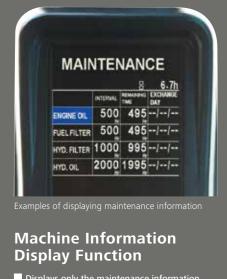








An enlarged cartridge-type pilot filter simplifies maintenance.



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

  Record function of previous breakdowns
  including irregular and transient malfunction

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



### Multi-Display in Color Www

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.



- 1 Analog gauge provides an intuitive reading of fuel level and engine water temperature
- 2 Green indicator light shows low fuel consumption during operation
- 3 Fuel consumption/Switch indicator for rear camera images
- 4 Digging mode switch
- 6 Monitor display switch

### **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.





### **More Efficient Maintenance Inside** the Cab



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

### **Easy Cleaning**



Special crawler frame design for easy mud removal cleaning.



### **Long-Interval** Maintenance

Long-life hydraulic oil reduces cost and labor.



### **Highly Durable Premium-fine Filter**

The high-capacity hydraulic oil filter incorporates glass fiber with superior cleaning power and durability.





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



the cab floor free of mud, simplify cleaning



Floor mat's raised edges help keep Engine oil pan equipped with drain valve.

**Compatible with Biofuel** 

Biofuel may be used with Kobelco machinery, reducing environmental impact and supporting business.

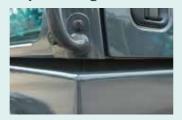
\*For more information about using biofuels, please contact the nearest dealer.

# **Comfortable Cab Is Now Safer than Ever.**



### Comfort

### **Super-Airtight Cab**



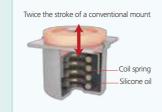
The high level of air-tightness keeps dust out of the cab.

### **Quiet Inside**

The high level of air-tightness ensures a quiet, comfortable cabin interior.

### **Low Vibration**

Coil springs absorb small vibrations, and high suspension mounts filled with silicone oil reduce heavy vibration. The long stroke achieved by this system provides excellent protection from vibration.



### **Anti-theft measures**

Theft-prevention brackets have been installed on the ECU, mechatronics, and cluster panels. Their structure makes removal very difficult.



# **Broad View Liberates** the Operator

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

### Air Conditioner Louvers behind the Seat VEW

The large air-conditioner has louvers 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 operating environment.



### Large Cab Is Easy to Get in and Out of

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

### More Comfortable Seat Means Higher Productivity

Seat recliner can be pushed back flat and double slides allow adjustment for optimum comfort.



\*Product image for illustration purposes only.

# Interior Equipment Adds to Comfort and Convenience





### Safety

### **ROPS Cab**

ROPS (Roll-Over-Protective Structure)-compliant cab clears ISO standards (ISO-12117-2: 2008) and ensures greater safety for the operator should the machine tip over.

\*Prevention bar shall be equipped on the right side window and the armrest will not be installed for this model.





### **Expanded Field of View for Greater Safety**



Greater safety assured by rearview mirrors on left and right.







9



data, and therefore can be deployed in areas where other forms of communication are difficult.

When a hydraulic excavator is fitted with this system, data on the machine's operation, such as operating hours, location, fuel consumption, and maintenance status can be obtained remotely.

### **Direct Access to Operational Status**

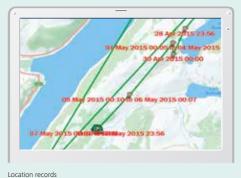
### **Location Data**

Latest location

Custome

• Accurate location data can be obtained even from sites where communications are difficult.





Firroit 11 Apr. 2015	10 May, 2015	Search	
Type of Operation	Working Hrs.		Ratio
Total Working Hrs		\$69 H/s	100 %
Digging Hrs	100	72.2 Hrs	43 %
Traveling Hrs		18.3 Hrs	119
Idle Hrs		15.9 Hrs	9.5
Opt Att Hrs	100	62.5 Hrs	37 9
Crane Mode Hrs		0 Hrs	0.9

Work data

### **Operating Hours**

- •A comparison of operating times of machines at multiple locations shows which locations are busier and more profitable.
- ·Operating hours on site can be accurately recorded, for running time calculations needed for rental machines, etc.



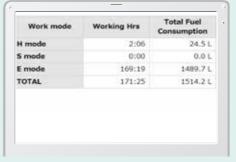
Daily report

### **Fuel Consumption Data**

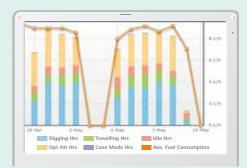
•Data on fuel consumption and idling times can be used to indicate improvements in fuel consumption.

### **Graph of Work Content**

•The graph shows how working hours are divided among different operating categories, including digging, idling, travelling and optional operations.



Fuel consumption



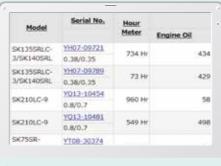
Work status

### **Maintenance Data and Warning Alerts**

### **Machine Maintenance** Data

• Provides maintenance status of separate machines operating at multiple sites.

• Maintenance data is also relayed to KOBELCO service personnel, for more efficient planning of periodic servicing.



### **Warning Alerts**

•This system gives an alert if an anomaly is sensed, preventing damage that could result in machine downtime.

### **Alarm Information Can Be** Received via E-mail

• Alarm information or maintenance notice can be received via e-mail, using a computer or a mobile device.



### **Daily/Monthly Reports**

•Operational data downloaded onto a computer helps

Alarm messages can be received on a mobile device.

### **Security System**

### **Engine Start** Alarm

•The system can be set up with an alarm if the machine is operated outside designated time.



Engine start alarm outside prescribed work time

in formulating daily and monthly reports.

### **Area Alarm**

• It can be set up with an alarm if the machine is moved out of its designated area to another location.



Alarm for outside of reset area





Model	MITSUBISHI D04FR-74kW				
Туре	Water-cooled, 4 cycle 4 cylinder direct injection type diesel engine with intercooler turbo-charger				
No. of cylinders	4				
Bore and stroke	102 mm x 130 mm				
Displacement	4.249 L				
Rated power output	69.2 kW / 2,000 min <sup>-1</sup> (ISO 9249: with fan)				
Kateu power output	74 kW / 2,000 min <sup>-1</sup> (ISO 14396: without fan)				
Max. torque	359 N • m / 1,600 min <sup>-1</sup> (ISO 9249: with fan)				
iviax. torque	375 N • m / 1,600 min <sup>-1</sup> (ISO 14396: without fan)				



# Hydraulic System

Pump	
Туре	Two variable displacement pumps + 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
Main control valve	12-spool
Oil cooler	Air cooled type



# **Swing System**

Axial piston motor
Hydraulic; locking automatically when the swing control lever is in neutral position
Oil disc brake, hydraulic operated automatically
11 min <sup>-1</sup> {rpm}
2,180 mm
2,640 mm



# 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	42 each side
Travel speed	4.8 / 2.4 km/h
Drawbar pulling force	196 kN (20,000kgf) SAE J 1309
Gradeability	70 % {35°}



# Cab & Control

All-weather, sound-suppressed steel cab mounted on the high suspension mounts filled with silicone oil and equipped with a heavy, insulated floor mat.
Control
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 4.5 L
Swing reduction gear	1.65 L
Hydraulic oil tank	104 L tank oil level
nyuraunc on tank	160 L hydraulic system



### **Attachments**

Backhoe bucket and combination

Туре		Backhoe bucket				
Ducket conscitu	ISO heaped m <sup>3</sup>	0.45				
Bucket capacity	ISO Struck m <sup>3</sup>	0.35				
Ononing width	With side cutter mm	915				
Opening width	Without side cutter mm	815				
No. of teeth		4				
Bucket weight kg		360				
	2.38 m arm	0				
Combination	2.38 m arm (with rock guard)	0				
Combination	2.84 m arm	0				
	2.84 m arm (with rock guard)	0				

# **Operating Weight & Ground Pressure**In standard trim, with standard boom, 2.38 m arm, and 0.45 m³ ISO heaped bucket

Shaped	Grouser shoes (even height)					
Shoe width mm	700 (triple)	900 (single)	900 (triple)	960 (single)		
Overall width of crawler mm	2,740	2,940	2,940	3,000		
Ground pressure kPa	32	26	26	24		
Operating weight kg	15,000	15,500	15,400	15,700		



# **Working Ranges**

		Unit: m		
Boom	4.68 m			
Arm Range	2.38m	2.84m		
a-Max. digging reach	8.34	8.78		
b-Max. digging reach at ground level	8.14	8.59		
c- Max. digging depth	5.26	5.72		
d-Max. digging height	8.76	9.07		
e-Max. dumping clearance	6.35	6,65		
f- Min. dumping clearance	2.50	2.06		
g-Max. vertical walldigging depth	4.63	5.10		
h-Min. swing radius	2.64	2.80		
i- Horizontal digging stroke at ground level	4.23	4.71		
j- Digging depth for 2.4 m (8')flat bottom	5.03	5.53		
Bucket capacity ISO heaped m <sup>3</sup>	0.45	0.45		

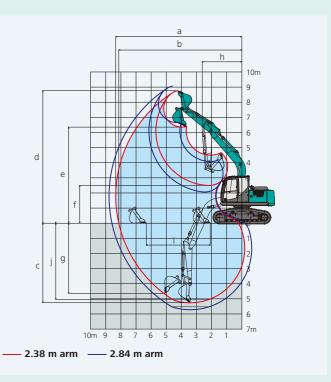
### Digging Force (ISO 6015)

33 3 · · ·	Offic. Ki			
Arm length	2.38m	2.84m		
Bucket digging force	90.4	90.4		
Arm crowding force	64 1	58 1		



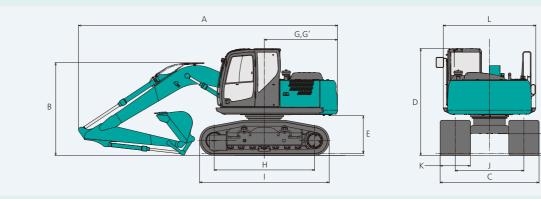
## **Dimensions**

Ar	rm length	2.38m	2.84m		
Α	Overall length	7,700	7,820		
В	Overall height (to top of boom)	2,760	3,150		
C	Overall width of crawler	2,940	2,940		
D	Overall height (to top of cab)	3,170	3,170		
Е	Ground clearance of rear end*	1,120	1,120		
F	Ground clearance*	585	585		



			Unit: mm
G	Tail swing radius	2,180	2,180
G'	Distance from center of swing to rear end	2,180	2,180
Н	Tumbler distance	2,990	2,990
1	Overall length of crawler	3,850	3,850
J	Track gauge	2,040	2,040
Κ	Shoe width	900	900
L	Overall width of upperstructure	2,750	2,750
			1 1 1 1 6 1 1

\*Without including height of shoe lug



# **Lift Capacities**





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)

SK130XDL Standard Arm: 2.38 m Bucket: Without, Shoe: 900 mm Counterweight: 1,200 kg												
А		1.5 m		3,0 m		4.5 m		6.0 m		At Max. Reach		
В			<b>—</b>		<b>—</b>	1	<del></del>	1	<b>—</b>		<b>—</b>	Radius
7.5 m	kg									*2,150	*2,150	4.14 m
6.0 m	kg					*3,210	*3,210			*1,770	*1,770	5.71 m
4.5 m	kg					*3,620	*3,620	*3,400	2,350	*1,670	*1,670	6.58 m
3.0 m	kg			*6,830	6,500	*4,520	3,500	3,510	2,260	*1,680	*1,680	7.01 m
1.5 m	kg			*5,220	*5,220	5,230	3,230	3,390	2,140	*1,790	1,670	7.10 m
G.L.	kg			*6,600	5,600	5,050	3,070	3,300	2,060	*2,030	1,720	6.86 m
-1.5 m	kg	*5,870	*5,870	*8,830	5,640	5,020	3,040	3,300	2,060	*2,550	1,960	6.24 m
-3.0 m	kg	*9,870	*9,870	*7,310	5,810	*4,930	3,130			*3,970	2,650	5.10 m