

KOBELCO

SK130



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.

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To cities, forests, and all kinds of sites around the world.



SK130

Kobelco's innovations have created "earth-friendly construction machines" that play important roles at a diverse range of construction sites throughout the world.

They increase productivity on all types of projects thanks to their power, durability, and outstanding fuel efficiency.

While boasting low fuel consumption, the SK130-10 is state-of-the-art machine that achieves even greater efficiency.

Featuring strong durability and easy maintenance, it's put to powerful use on all kinds of construction sites.

Its high performance exceeds expectations.

Kobelco is focused on the future of the global environment, striving to provide greater work efficiency and reduce life-cycle costs, as well as offering a new sense of value that's ahead of the times.



More operable. Durable. Better performance.



Upper Structure

Cooling System NEW

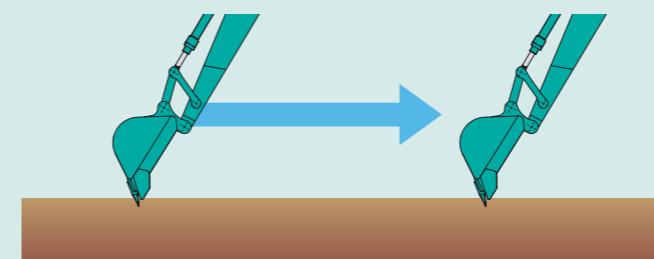


The oil cooler has been changed from a two-layer to a one-layer type. This prevents dust from collecting in the gaps, helping to maintain the cooling function.

Improved Workability

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.



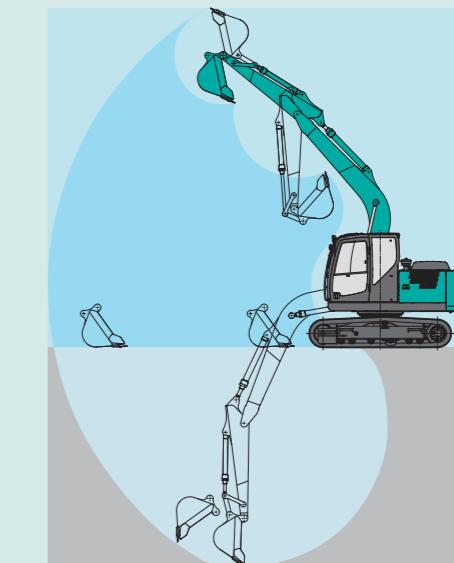
Travel System

Reinforced Guide Frame

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



Get More Done Faster with Superior Operability



Top-class excavating reach extends working range

■ Max. digging reach
8,340mm

■ Max. vertical wall digging depth
4,890mm

■ Max. digging depth
5,520mm

*1 Values are for STD arm (2.38m)

*2 Without including height of shoe

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.



Reinforced Undercover

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

We're always pursuing fuel efficiency.

Reduced fuel consumption in ECO-mode

ECO-mode: Engineered for Economy NEW

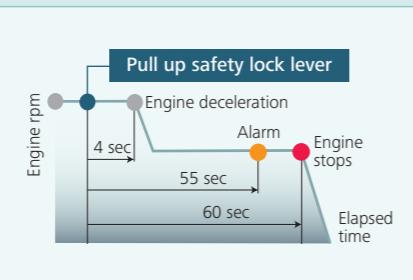
Kobelco's ECO-mode maximizes the operating efficiency of the engine and other components to achieve much greater fuel efficiency. Just press a button to choose the operation mode best suited to the task at hand and the working conditions.

■ Optimal operation with three modes

H H-mode • • • Maximum power for maximum productivity on your toughest jobs

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

E 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 CO₂ 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

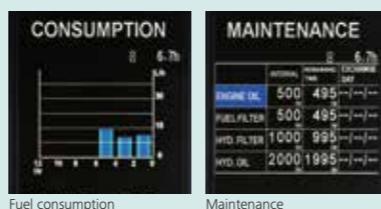
Our new ECO-mode is 20% more fuel efficient than the SK130-8 H-mode.

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



Multi-Display in Color NEW

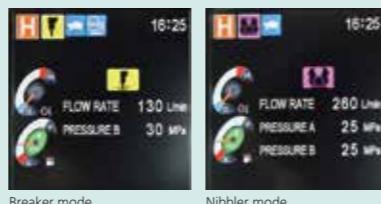
Brilliant colors and graphic displays are easy to recognize on the LCD multi-display in the console. The display shows fuel consumption, maintenance intervals, and more.



- 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
- ⑤ 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.



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.

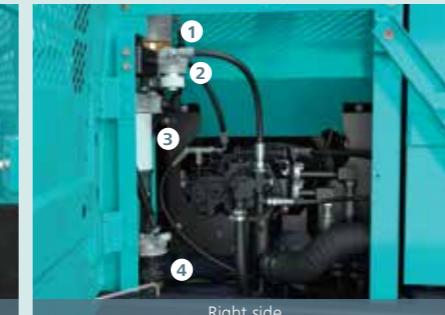
Efficient maintenance to sustain high performance.

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.

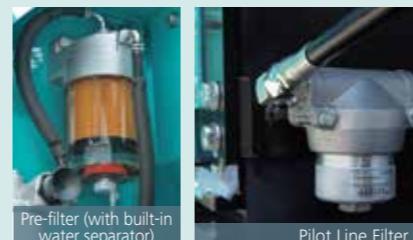


Left side



Right side

Simple layout for easy access to radiator and cooling system elements



Pre-filter (with built-in water separator)



Pilot Line Filter

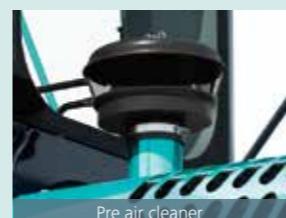


Main fuel filter



Third filter

An enlarged cartridge-type pilot filter simplifies maintenance.



Pre air cleaner



Crawler frame



Special crawler frame design for easy mud removal cleaning.



Air conditioner filters



Detachable two-piece floor mat

Long-Interval Maintenance
Long-life hydraulic oil: 2,000 hours

Long-Interval Maintenance

Long-life hydraulic oil reduces cost and labor.

Replacement cycle:
1,000 hours

Highly Durable Premium-fine Filter

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



Engine oil pan equipped with drain valve.



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 malfunctions

Comfortable Cab Is Now Safer than Ever.

A work environment that is quieter and more comfortable. A cab that puts the operator first is key to improved safety.



Comfort

Super-Airtight Cab



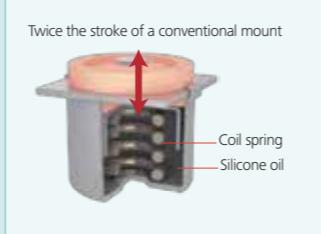
The high level of air-tightness keeps dust out of the cab.

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 NEW



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.

More Comfortable Seat Means Higher Productivity



Seat recliner can be pushed back flat



Double slides allow adjustment for optimum comfort

*Armrests are equipped with suspension seats only.

Interior Equipment Adds to Comfort and Convenience



Spacious storage tray



Large cup holder

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.



*Prevention bar shall be equipped on the right side window.

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.



Expanded Field of View for Greater Safety



Rearview mirrors left and right



Hand rail



Prevention bar for leaning out of window



Hammer for emergency exit



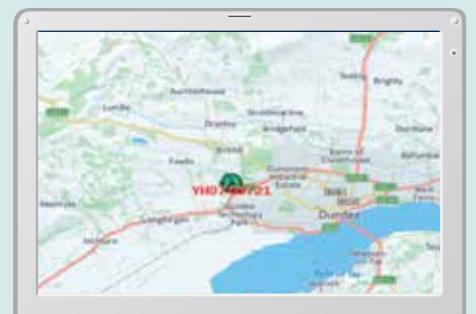
KOBELCO MONITORING EXCAVATOR SYSTEM



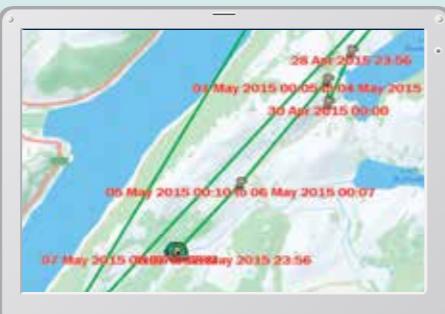
Direct Access to Operational Status

Location Data

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



Latest location



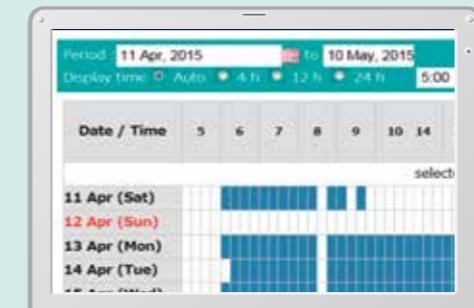
Location records



Work data

Operating Hours

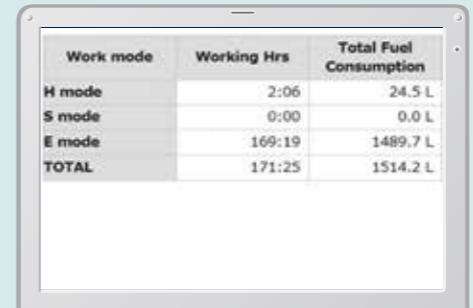
- A comparison of operating times of machines at multiple locations shows which locations are busier and more profitable.
- Operating hours on site can be accurately recorded, for running time calculations needed for rental machines, etc.



Daily report

Fuel Consumption Data

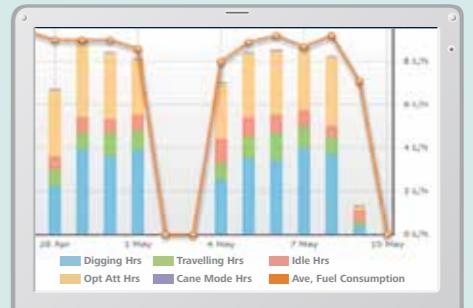
- Data on fuel consumption and idling times can be used to indicate improvements in fuel consumption.



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.



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.

Model	Serial No.	Hour Meter	Engine Oil
SK135SR-LC-3/ SK140SR-L	YH07-09721 0.38/0.35	734 Hr	434
SK135SR-LC-3/ SK140SR-L	YH07-09789 0.38/0.35	73 Hr	429
SK210LC-9	YQ13-10454 0.8/0.7	960 Hr	58
SK210LC-9	YQ13-10481 0.8/0.7	549 Hr	498
SK75SR-	YT08-30374		

Maintenance

Warning Alerts

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



Alarm messages can be received on a mobile device.

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.

Engine start alarm outside prescribed work time

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

Specifications



Engine

Model	MITSUBISHI D04FR-74kW
Type	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 ⁻¹ (ISO 9249: with fan) 74 kW / 2,000 min ⁻¹ (ISO 14396: without fan)
Max. torque	359 N·m / 1,600 min ⁻¹ (ISO 9249: with fan) 375 N·m / 1,600 min ⁻¹ (ISO 14396: without fan)



Hydraulic System

Pump	
Type	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/cm ²)
Travel circuit	34.3 MPa (350 kgf/cm ²)
Swing circuit	28.0 MPa (296 kgf/cm ²)
Control circuit	5.0 MPa (50 kgf/cm ²)
Pilot control pump	Gear type
Main control valve	12-spool
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	2,640 mm



Attachments

Type	Backhoe bucket		
Bucket capacity	ISO heaped m ³	0.45	0.50
	ISO Struck m ³	0.35	0.38
Opening width	With side cutter mm	940	1,000
	Without side cutter mm	840	900
No. of teeth		4	5
Bucket weight	kg	350	380
Combination	2.38 m arm (with rock guard)	○	○
	2.84 m arm	○	△

○ Standard combination ○ Recommended △ Loading only - Not applicable



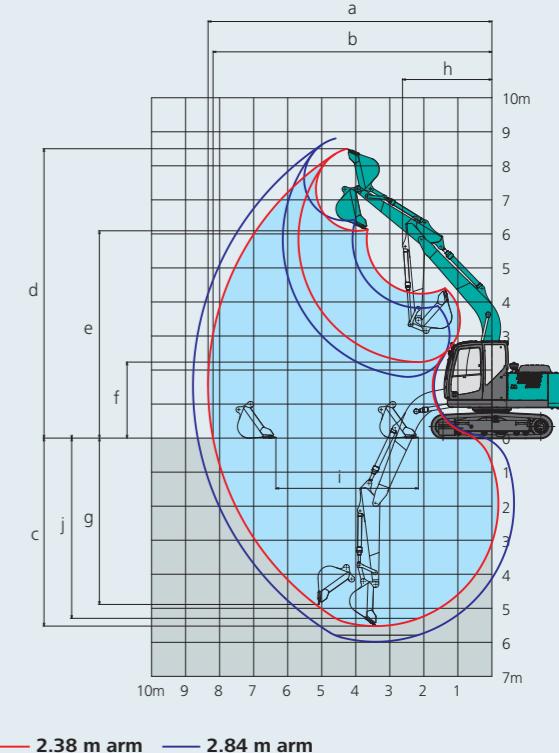
Travel System

Travel motors	2 x axial-piston, two-step motors
Travel brakes	Hydraulic brake per motor
Parking brakes	Oil disc brake per motor
Travel shoes	44 each side
Travel speed	5.8 / 3.4 km/h
Drawbar pulling force	142 kN (14,500 kgf) SAE J 1309
Gradeability	70 % {35°}



Working Ranges

Unit: m		
Boom	4.68 m	
Range	Arm	
a-Max. digging reach	2.38m	2.84m
b-Max. digging reach at ground level	8.34	8.78
c-Max. digging depth	5.52	5.98
d-Max. digging height	8.50	8.80
e-Max. dumping clearance	6.09	6.39
f-Min. dumping clearance	2.23	1.80
g-Max. vertical wall digging depth	4.89	5.35
h-Min. swing radius	2.64	2.80
i-Horizontal digging stroke at ground level	4.18	4.67
j-Digging depth for 2.4 m (8') flat bottom	5.29	5.79
Bucket capacity ISO heaped m ³	0.50	0.50



Digging Force (ISO 6015)

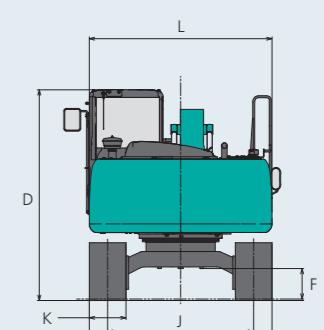
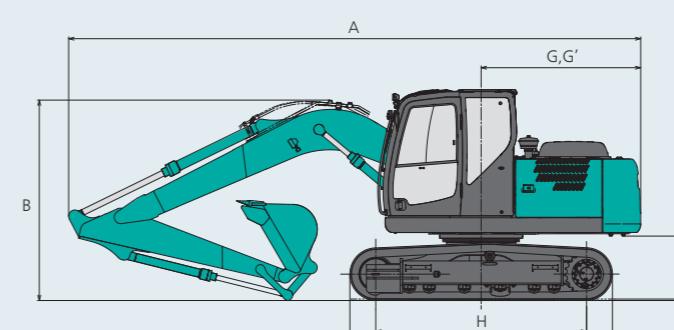
Unit: kN		
Arm length	2.38m	2.84m
Bucket digging force	90.4	90.4
Arm crowding force	64.1	58.1

Dimensions

Arm length	2.38m	2.84m
A Overall length	7,800	7,790
B Overall height (to top of boom)	2,730	3,120
C Overall width of crawler	2,490	2,490
D Overall height (to top of cab)	2,870	2,870
E Ground clearance of rear end*	860	860
F Ground clearance*	415	415
G Tail swing radius	2,180	2,180

Unit: mm	
G Distance from center of swing to rear end	2,180
H Tumbler distance	2,870
I Overall length of crawler	3,580
J Track gauge	1,990
K Shoe width	500
L Overall width of upperstructure	2,490

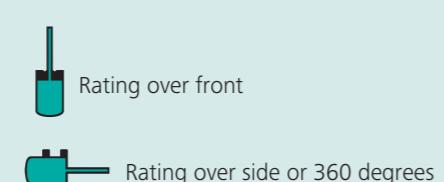
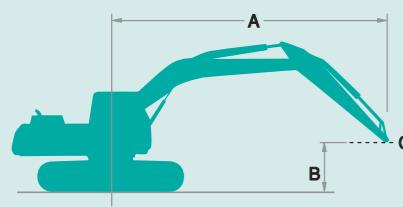
*Without including height of shoe lug



Operating Weight & Ground Pressure

In standard trim, with standard boom, 2.38 m arm, and 0.50 m³ ISO heaped bucket

Shaped	Grouser shoes (even height)	
Shoe width	mm	500
Overall width of crawler	mm	2,490
Ground pressure		41
Operating weight		13,000
		13,500



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)

SK130		Arm: 2.38 m Bucket: Without, Shoe: 500 mm Counterweight: 2,400 kg												
		A		1.5 m		3.0 m		4.5 m		6.0 m		At Max. Reach		
B													Radius	
6.0 m	kg							*3,250	*3,250			*1,820	*1,820	5.47 m
4.5 m	kg							*3,530	*3,530	3,250	2,240	*1,680	*1,680	6.44 m
3.0 m	kg				*6,300	6,250	*4,380	3,350	3,160	2,160	*1,670	*1,670	6.96 m	
1.5 m	kg				*5,630	5,510	4,700	3,100	3,050	2,060	*1,760	1,590	7.11 m	
G.L.	kg				*6,080	5,290	4,520	2,930	2,960	1,980	*1,980	1,620	6.93 m	
-1.5 m	kg	*5,200	*5,200	8,960	5,290	4,460	2,880	2,940	1,960	*2,420	1,800		6.40 m	
-3.0 m	kg	*8,950	*8,950	*7,870	5,420	4,520	2,940				3,490	2,320	5.39 m	

SK130		Arm: 2.84 m Bucket: Without, Shoe: 500 mm Counterweight: 2,400 kg													
		A		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach	
B														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							*3,060	2,250			*1,590	*1,590	6.93 m	
3.0 m	kg				*5,290	*5,290	*3,940	3,390	3,160	2,160		*1,580	1,510	7.41 m	
1.5 m	kg				*8,130	5,610	4,710	3,100	3,030	2,030	*1,960	1,430	*1,660	1,420	7.55 m
G.L.	kg				*6,310	5,230	4,480	2,890	2,920	1,930			*1,840	1,430	7.39 m
-1.5 m	kg	*4,450	*4,450	*8,650	5,170	4,380	2,810	2,870	1,890			*2,190	1,570	6.89 m	
-3.0 m	kg	*7,530	*7,530	*8,370	5,260	4,410	2,830					2,940	1,940	5.96 m	
-4.5 m	kg				*5,960	5,520						*3,800	3,170	4.34 m	

Notes:

- 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 capacities.
- 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.
- Arm top defined as lift point.
- 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.
- 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 originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.

STANDARD EQUIPMENT**ENGINE**

- 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

- Swing rebound prevention system
- Straight propel system
- Two-speed travel with automatic shift down
- Sealed & lubricated track links
- Grease-type track adjusters
- Automatic swing brake

HYDRAULIC

- Arm regeneration system
- Aluminum hydraulic oil cooler

MIRRORS & LIGHTS

- Three rear view mirrors
- Three front working lights
(one for boom, one for right storage box, and one for Cab)

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
- KOMEKS

OPTIONAL EQUIPMENT

- Two cab lights
- N & B piping
- Wide range of buckets
- Various optional arms

- Wide range of shoes
- Suspension seat
- Multi control valve
- Suspension seat with armrest

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