KOBELCO

SK380XDLC-10

SK380XDLC

Bucket Capacity :

1.6 - 2.3 m^3 (ISO heaped)

Engine Power :

209 kW / 2,100 min^{-1} (ISO 14396)

Operating Weight :

37,400 - 37,800 kg

We Save You Fuel
Achieving a Low-Carbon Society

Power Meets Efficiency

In line with KOBELCO's concept of earth-friendly construction machinery that will work long and hard on any site on the planet, the rugged machine body is newly designed, and comprehensive reinforcement makes the attachment more robust.
It all adds up to KOBELCO's toughest ever mining excavator.
The latest hydraulics technology delivers both high-powered output and lower fuel consumption.
As the 10th generation model of KOBELCO's SK series, the SK380XDLC meets the needs of the most punishing mining sites with a performance that simply astounds.

*in Eco-mode compared to S-mode on the SK330-8

Even stronger attachment

Reinforced arm exhibits strength

Thick steel plate NEW

Arm top

Thickness of steel plate has been increased to give more strength.

Arm foot

Base plate thickness has been increased.

Modified Foot Boss Shape NEW

The arm foot boss shape has been modified and improved to distribute stress, delivering more strength for tasks like digging next to a wall.

Rock Guards

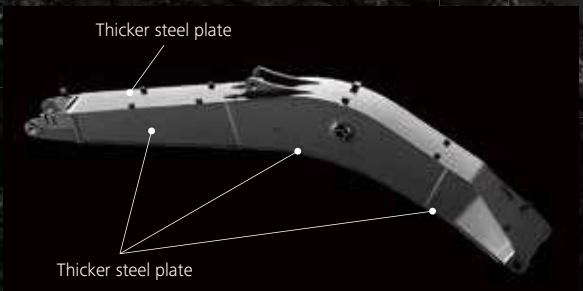
Specially designed long, solid rock guard installed to prevent damage to arm.

Increase in productivity means "Power"

The boom and arm that take the greatest punishment are significantly reinforced.

Newly developed mining boom made of thicker steel plate

Featuring an XD Boom NEW



The XD boom features stronger plates compared to the HD booms of standard machines, which increases longevity even under the toughest working conditions.

Big cross-section boom NEW

Newly designed, big cross-section boom for unbeatable durability under harsh working conditions.

Protective Guards that Cover the Main Upper Machinery

Upper Under Covers

Thick covers with increased durability compared to standard models.

Increase in productivity means “Power”

Powerful travel system for easy travel over loose rocks,
and highly reliable filtration system ensure higher machine performance.

Crawlers Built for Unbeatable Durability compared to standard models* *SK350 series

Reinforced Guide Frame

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

Track Guides

Large, reinforced track guides are installed in three locations.

Double-support outer flange upper rollers

Lower Flame Underside Cover

Hydraulic piping and equipment protected against damage from rubble and stony ground.

Track Links

The size and durability of the track link are increased compared to standard models.

Thicker steel plate for shoes

Reinforced HD shoes of thick steel plate to master rough, stony ground.

Reinforced Travel Motor Cover

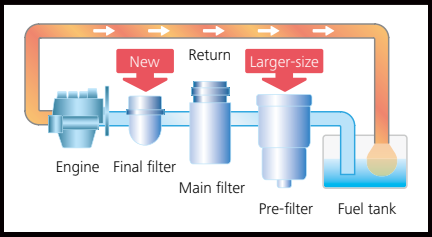
Rear of travel motor cover is reinforced.

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.

Fuel Filter NEW

The pre-filter with built-in water separator has 1.8 times more filter area compared to the previous models and with a new final stage maintenance free fuel filter to maximize filtering performance.

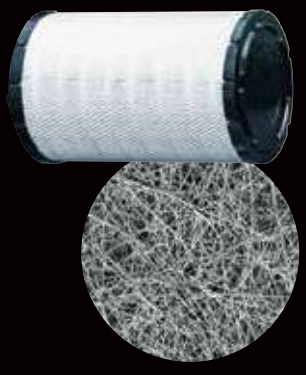


Hydraulic Fluid Filter NEW

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

Metal Mesh Cover Air Cleaner NEW

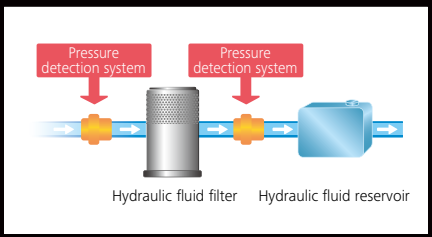
Metal mesh cover ensures strength and durability.



Enlarged filter image

Hydraulic Fluid Filter Clog Detector NEW

Hydraulic tank pressure sensor monitors the pressure difference between the return line and tank inside pressure to determine the degree of clogging. If the difference exceeds a predetermined level, a warning appears on the multi-display, so any contamination can be trapped by the filter and replaced before it reaches the hydraulic fluid in the tank.



Evolution Continues, with Improved Fuel Efficiency.

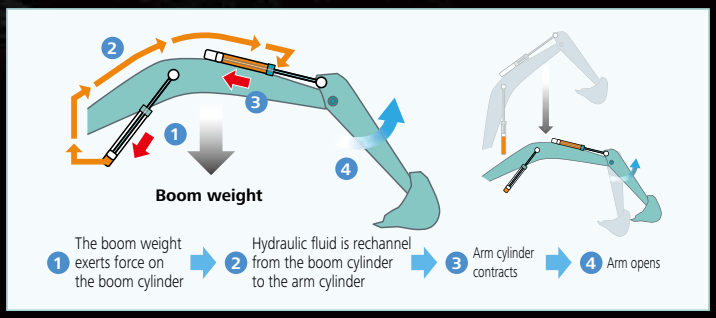
Higher fuel saving means "Efficiency"

The new arm interflow system more efficiently controls hydraulic fluid flow, and significant reduction of in-line resistance and pressure loss boosts fuel efficiency.

Hydraulic System: Revolutionary Technology Saves Fuel

Arm Regeneration System NEW

When lowering the boom, this system uses the downward force generated by the boom's weight to push fluid to the excavator arm. This greatly reduces the need to apply power from outside the system.



Energy saving system saves fuel further

Fuel efficient work mode ECO mode NEW

The fuel-saving ECO mode is newly provided to the work mode, selectable according to a desired operation. Fuel consumption can be greatly reduced.

E ECO-mode
Used to reduce fuel consumption for small workloads

H H mode
Used to prioritize the amount of work done

S S mode
Used to strike a balance between workloads and fuel efficiency

Short 2.6 m arm (reinforced for rocks)

- Max. Bucket Digging Force
  - Normal: **229kN**
  - With power boost: **252kN**
- Max. Arm Digging Force
  - Normal: **207kN**
  - With power boost: **228kN**
- Max digging reach: **10,610mm**
- Max digging depth: **6,840mm**
- Max vertical digging depth: **5,700mm**

Top Class Traveling Force

Powerful traveling force and drawbar pulling force deliver plenty of speed when climbing slopes or negotiating bad roads, and the agility to change direction swiftly and smoothly.

- Drawbar Pulling Force: **332kN**

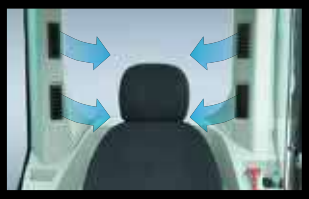
Comfortable Cab Is Now Safer than Ever.

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

Large cab NEW

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

Air Conditioner Louvers behind the Seat NEW



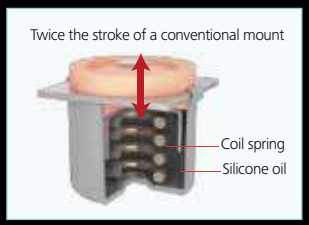
The large air-conditioner has louvers on the back pillars that blow from behind and to the right and left of the operator's seat. They can be adjusted to put a direct flow of cool/warm air on the operator, which means a more comfortable operating environment.

Super-Airtight Cab NEW

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

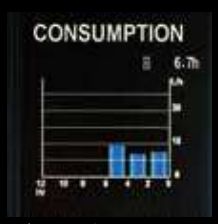
Low Vibration NEW

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.



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.



Fuel consumption

Maintenance

Breaker mode

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.

Comfort

Broad View Liberates the Operator NEW

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

Large Cab Is Easy to Get in and Out of NEW

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

More Comfortable Seat Means Higher Productivity

Vibration absorbing suspension seat

Seat recliner can be pushed back flat

Double slides allow adjustment for optimum comfort

A Light Touch on the Lever Means Smoother, Less Tiring Work NEW

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

Interior Equipment Adds to Comfort and Convenience

24V outlet

Spacious storage tray

Large cup holder

Safety

Wide view during operations High Visibility for Safety

Greater safety assured by rearview mirrors on left and right.

Hammer for emergency exit

Efficient Maintenance Keeps the Machine in Peak Operating Condition.

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

Easy, On-the-Spot Maintenance

There is ample space in the engine compartment for a mechanic to do maintenance work inside. The distance between steps is lower so entry and exit is easier. And the mechanic can work in comfort, without contortions or unnatural body positions. Finally, the hood is lighter and easier to raise and lower.

Generous space for maintenance work

Step/Hand rail

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.

Double-element air cleaner

Left side

Simple layout for easy access to radiator and cooling system elements.

Fuel filter with built-in water-separator/Fuel filter

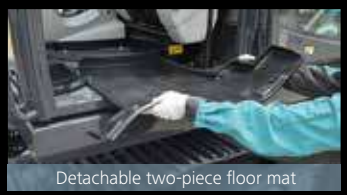
Right side

1. Fuel filter
2. Fuel filter with built-in water-separator
3. Engine oil filter

Easy Cleaning

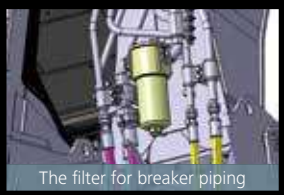
Crawler frame

Special crawler frame design for easy mud removal cleaning.



Detachable two-piece floor mat

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



The filter for breaker piping

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

Engine oil pan

Engine oil pan equipped with drain valve.

More Efficient Maintenance Inside the Cab

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

Air conditioner filters

GEOSCAN

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.

Engine

Model	HINO J08E
Type	Direct injection, water-cooled, 4-cycle, 6-cylinder diesel engine with intercooler turbo-charger (Tier3-compliant engine)
No. of cylinders	6
Bore and stroke	112 mm X 130 mm
Displacement	7.684 L
Rated power output	197 kW/2,100 min^{-1} (ISO 9249)
	209 kW/2,100 min^{-1} (ISO 14396)
Max. torque	969 N•m/1,600 min^{-1} (ISO 9249)
	998 N•m/1,600 min^{-1} (ISO 14396)

Hydraulic System

Pump	
Type	Two Variable displacement piston pumps + one gear pump
Max. discharge flow	2 x 294 L/min, 1 x 21 L/min
Relief valve setting	
Boom, arm and bucket	34.3 MPa {350 kgf/cm^2}
Power Boost	37.8 MPa {385 kgf/cm^2}
Travel circuit	34.3 MPa {350 kgf/cm^2}
Swing circuit	29.0 MPa {296 kgf/cm^2}
Control circuit	5.0 MPa {50 kgf/cm^2}
Pilot control pump	Gear type
Oil cooler	Air cooled type

Swing System

Swing motor	Axial-piston mortor
Brake	Hydraulic; locking automatically when the swing control lever is in neutral position
Parking brake	Wet multiple plate
Swing speed	10 min^{-1} {rpm}

Attachments

Backhoe bucket and arm combination

Bucket capacity	ISO heaped	m^3	1.6	1.8	2.0	2.3
Opening width	With side cutters	mm	1,470	1,670	1,970	1,890
	Without side cutters	mm	1,390	1,640	1,760	1,770
No. of bucket teeth			5	5	5	5
Bucket weight		kg	1,810	1,830	1,740	1,860
Super short arm 2.25m			◎	○	□	□
Short arm 2.60m			◎	□	□	×
Standard arm 3.30m			□	□	×	×

◎ Standard ○ Recommended □ Earth work digging × Not recommended

Travel System

Travel motors	Variable displacement piston pump
Travel brakes	Hydraulic
Parking brakes	Wet multiple plate
Travel shoes	48 each side
Travel speed	5.6/3.3 km/h
Drawbar pulling force	332 kN (ISO 7464)
Gradeability	70 % {35°}

Cab & Control

Cab

International Comfort Cab with dust free enclosure and with internal pressure of 97pa (earlier cab 27pa). 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	140 mm x 1,550 mm
Arm cylinder	170 mm x 1,788 mm
Bucket cylinder	150 mm x 1,193 mm

Refilling Capacities & Lubrications

Fuel tank	503 L
Cooling system	35 L
Engine oil	28.5 L
Travel reduction gear	2 x 8.0 L
Swing reduction gear	7 L
Hydraulic oil tank	245 L tank oil level
	410 L hydraulic system

Working Ranges

Unit: m

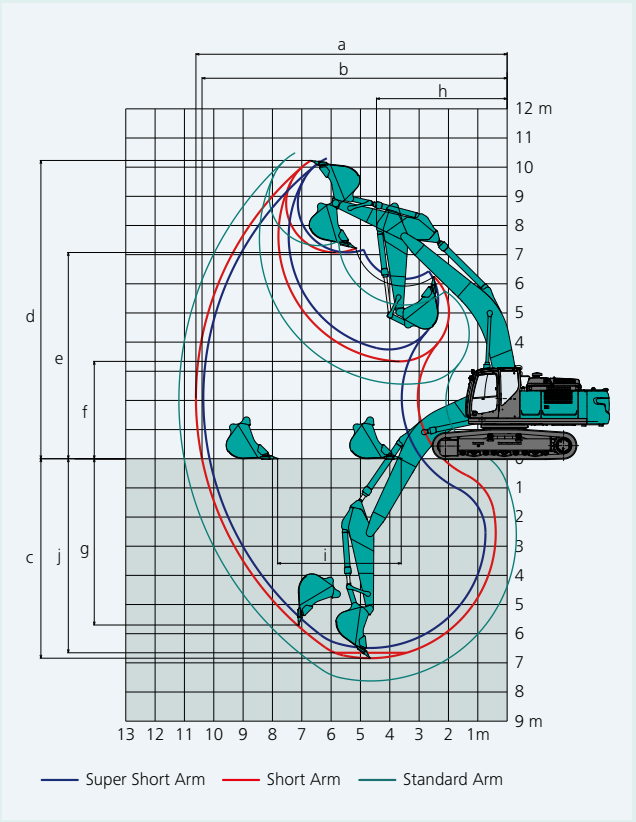
Boom	6.50m		
Arm / Range	Super short 2.25 m	Short 2.6 m	Standard 3.3 m
a- Max. digging reach	10.36	10.61	11.26
b- Max. digging reach at ground level	10.15	10.4	11.06
c- Max. digging depth	6.51	6.84	7.56
d- Max. digging height	10.29	10.23	10.54
e- Max. dumping clearance	7.06	7.07	7.37
f- Min. dumping clearance	3.73	3.34	2.62
g- Max. vertical wall digging depth	4.33	5.70	6.48
h- Min. swing radius	4.49	4.46	4.31
i- Horizontal digging stroke at ground level	3.39	4.21	5.82
j- Digging depth for 2.4 m (8') flat bottom	6.31	6.65	7.40
Bucket capacity ISO heaped m³	2.3	1.6	1.6

Digging Force (ISO 6015)

Unit: kN

Arm length	Super short 2.25 m	Short 2.6 m	Standard 3.3 m
Bucket digging force	220 242*	229 252*	229 252*
Arm crowding force	232 255*	207 228*	165 182*

*Power Boost engaged.



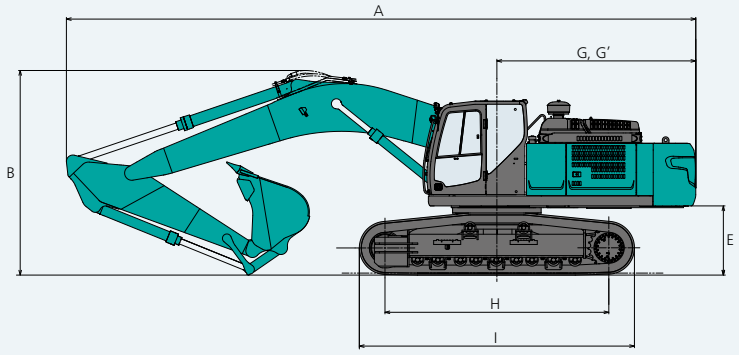
Dimensions

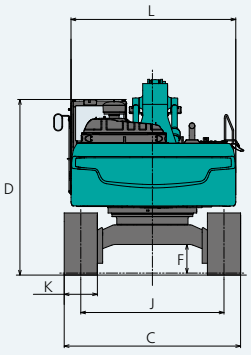
Arm length		Super short 2.25 m	Short 2.6 m	Standard 3.3 m
A	Overall length	11,510	11,380	11,300
B	Overall height (to top of boom)	3,770	3,690	3,430
C	Overall width	3,190		
D	Overall height (to top of cab)	3,170		
E	Ground clearance of rear end*	1,220		
F	Ground clearance*	500		

Unit: mm

G	Tail swing radius	3,600
G'	Distance from center of swing to rear end	3,600
H	Tumbler distance	4,050
I	Overall length of crawler	4,970
J	Track gauge	2,590
K	Shoe width	600
L	Overall width of upperstructure	2,980

*Without including height of shoe



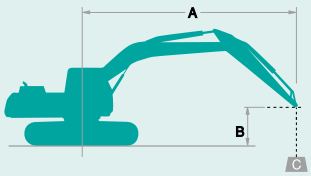


Operating Weight & Ground Pressure

In standard trim, with standard boom, 2.6 m arm, and 1.6 m³ ISO heaped bucket

Shaped		Triple grouser shoes (even height)	
Shoe width	mm	600	800
Overall width	mm	3,190	3,390
Ground pressure	kPa	70	53
Operating weight	kg	37,400	37,800

Lifting Capacities



Rating over front

Rating over side or 360 degrees

A: Reach from swing centerline to arm top
B: Arm top height above/below ground
C: Lifting capacities in Kilograms
Bucket: Without bucket
Relief valve setting: 37.8 MPa (385 kgf/cm²)

SK380XDLC — Standard Arm: 3.3 m, Bucket: Without, Shoe: 600 mm, Counterweight: 7,890 kg (Power Boost)

A / B		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		At Max. Reach		Radius
9.0m	kg													*6,370	*6,370	6.56 m
7.5 m	kg									*7,820	7,820			*5,840	*5,840	7.86 m
6.0 m	kg									*7,940	7,720			*5,640	*5,640	8.71 m
4.5 m	kg							*9,730	*9,730	*8,510	7,450	*7,870	5,560	*5,650	5,290	9.25 m
3.0 m	kg					*15,130	14,860	*11,180	9,830	*9,260	7,120	*8,180	5,410	*5,830	4,940	9.52 m
1.5 m	kg					*17,350	13,790	*12,460	9,260	*9,970	6,800	8,210	5,250	*6,200	4,810	9.54 m
G.L.	kg					*18,110	13,320	*13,210	8,890	*10,430	6,570	8,090	5,130	*6,830	4,890	9.33 m
-1.5 m	kg			*15,390	*15,390	*17,760	13,220	*13,270	8,740	10,380	6,470			*7,890	5,220	8.85 m
-3.0 m	kg	*17,520	*17,520	*22,360	*22,360	*16,440	13,350	*12,540	8,780	*9,720	6,520			*8,670	5,950	8.07 m
-4.5 m	kg			*18,270	*18,270	*13,850	13,710	*10,530	9,030					*8,580	7,560	6.88 m

SK380XDLC — Short Arm: 2.6 m, Bucket: Without, Shoe: 600 mm, Counterweight: 7,890 kg (Power Boost)

A / B		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius
7.5 m	kg									*8,810	8,380	7.06 m
6.0 m	kg					*9,410	*9,410	*8,660	7,520	*8,590	6,720	8.00 m
4.5 m	kg			*13,520	*13,520	*10,520	10,180	*9,080	7,280	*8,570	5,870	8.58 m
3.0 m	kg					*11,840	9,550	*9,710	6,970	8,470	5,430	8.87 m
1.5 m	kg					*12,880	9,050	*10,270	6,700	8,300	5,290	8.89 m
G.L.	kg			*17,940	13,180	*13,320	8,780	10,440	6,520	8,530	5,410	8.66 m
-1.5 m	kg			*17,040	13,230	*13,030	8,720	*10,240	6,490	*9,150	5,860	8.15 m
-3.0 m	kg	*19,320	*19,320	*15,220	13,460	*11,810	8,850			*9,180	6,890	7.29 m
-4.5 m	kg	*14,700	*14,700	*11,840	*11,840					*8,670	*8,670	5.95 m

SK380XDLC — Super Short Arm: 2.25 m, Bucket: Without, Shoe: 600 mm, Counterweight: 7,890 kg (Power Boost)

A / B		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius
7.5 m	kg					*9,510	*9,510			*9,480	9,010	6.73 m
6.0 m	kg					*9,920	*9,920	*9,160	7,500	*9,160	7,130	7.71 m
4.5 m	kg					*11,000	10,130	*9,470	7,290	*9,080	6,200	8.31 m
3.0 m	kg					*12,250	9,520	*10,030	7,000	8,910	5,740	8.61 m
1.5 m	kg					*13,170	9,070	*10,510	6,760	8,730	5,590	8.64 m
G.L.	kg					*13,450	8,850	10,530	6,610	9,020	5,740	8.40 m
-1.5 m	kg			*16,690	13,420	*12,970	8,840	*10,150	6,630	*9,440	6,270	7.87 m
-3.0 m	kg	*17,720	*17,720	*14,640	13,680	*11,460	9,030			*9,290	7,480	6.98 m
-4.5 m	kg			*10,720	*10,720					*8,300	*8,300	5.56 m

Notes:

1. Do not attempt to lift or hold any load that is greater than these lifting capacities at their specified lift point radius and heights. Weight of all accessories must be deducted from the above lifting capacities.
2. Lifting 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 pin is defined as lift point.
4. The above lifting capacities are in compliance with ISO 10567. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Lifting 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. Lifting 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 lifting loads.

STANDARD EQUIPMENT

ENGINE
- Engine, HINO J08E, diesel engine with turbocharger and intercooler
- Automatic engine deceleration
- Auto Idle Stop (AIS)
- Batteries (2 x 12V - 104Ah)
- Starting motor (24V - 5 kW), 60 amp alternator
- Automatic engine shut-down for low engine oil pressure
- Engine oil pan drain cock
- Double element air cleaner
- Pre-air cleaner

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

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
- 600mm HD triple grouser shoe
- Automatic swing brake
- Tow eyes

HYDRAULIC
- Boom & Arm regeneration system
- Auto warm up system
- Aluminum hydraulic oil cooler
- Hydraulic fluid filter clog detector
- Pilot line filter

MIRRORS & LIGHTS
- Two rear view mirrors
- Six front working lights (Two for boom, one for boom cylinder, one for right storage box and two 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
- 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
- Two cab lights
- Double slide seat
- 7-way adjustable suspension seat

OPTIONAL EQUIPMENT

- Refilling pump
- Travel alarm
- Cab guards
- Radio, AM/FM stereo with speakers
- Breaker piping with Breaker Filter

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

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 permission.

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