



ED160 Britis

KOBELCO

- Bucket capacity:
- 0.38-0.50 m³ ISO heaped
- Engine power:
- 78.6 kW
- Operating weight:
- 16,400-17,700 kg

KOBELCO

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*

We Save You Fuel





With the release of the ED160BR-7, KOBELCO has completely harmonised the values of PERFORMANCE and DESIGN. The ED160BR delivers greater efficiency and productivity with increased power and speed, along with uncompromising operator comfort and machine operability.

In the pursuit of producing unique and unbeatable machines that provide comfort and productivity without equal, KOBELCO continues to rise to the challenge.



THE ULTIMATE SLEEK AND STYLISH CAB DESIGN

True ergonomic functionality combined with modern design has resulted in a cabin interior that is sleek and comfortable, built for simplicity and operator comfort.

Jog dial

The jog dial integrates multiple functions to allow for simple navigation of machine information screens, even while wearing gloves.

LED backlights

LED backlighting on switches and dials provides a bright, clear view of controls, even in the dark, while delivering a premium look and feel.







UNFORGETTABLE COMFORT

Air suspension seat

A GRAMMER seat is installed as standard equipment, which achieves excellent shock absorption and superior ride comfort.

2 Optimal air conditioning vent placement

Air conditioning vents are optimally placed around the cabin with air flow directed toward the operator's neck and back, providing more comfortable operation.

3 Ergonomic and low-effort pilot control levers

Pilot control levers are mounted on adjustable consoles, with an ergonomic design that allows movement without twisting, reducing operator fatigue.



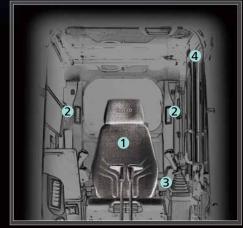
New hydraulic control

Our newly upgraded hydraulic control system responds to shorter lever strokes than previous models, delivering swifter, more precise movement and improved lever operability.

4 LED door light

The LED interior light automatically turns on when the door is opened or when the ignition is set to OFF.

This ensures easy entry and exit at nighttime.





KOBELCO



EE: PO





SETTING MENU











MAINTENANCE



CONSUMPTION



LANGUAGE SELECTION























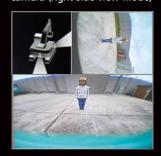
A WIDER VIEW BRINGS A WIDER RANGE OF USE

10-inch colour monitor—the largest in the industry

The easy-to-operate menu screen facilitates easy reading and navigation. Images from the built-in cameras can be checked on the large screen, which helps to improve safety. In addition, each icon is easily recognisable.



The right camera and rear camera (right side view mode)



The right camera and rear camera (straight view mode)







Eagle Eye View

Safety on full display

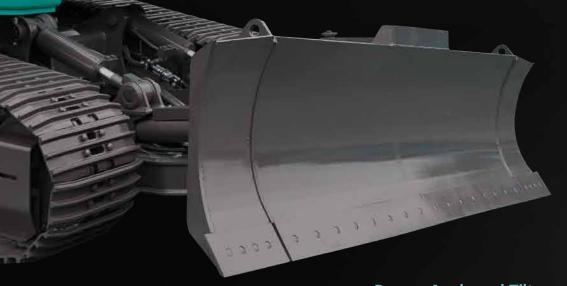
Our high-resolution, large display shows right, left and rear side cameras together. Multiple camera modes allow operators to customise their display based on their needs to enhance awareness and jobsite safety.





Screen display linked with the jog dial operation

The jog dial provides simple and intuitive control of all display screens. Turn the jog dial to the right or left to select an item and press the dial to confirm the selection.





100

Power, Angle and Tilt capability (PAT)

The 6-way dozer blade has Power, Angle and Tilt capability (PAT) operated from the cab. With a single control lever, the blade can be angled 25 degrees to the left or right for dispensing earth and materials away for the operator's path. The blade also tilts up on the left and right sides by 445 mm for slope grading, culverts and ditches.

THE NEXT LEVEL OF PERFORMANCE

Our high-power engine complies with Tier 4 Final emission regulations

Compared to previous models, the engine output is significantly increased, which shortens the digging cycle time substantially. It attains high performance without reducing the speed even when a heavy load is applied or when travelling up a slope.

Model: ISUZU 4JJ1XDRAC-01

Engine output

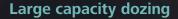
78.6 kW/2,200 min⁻¹

Digging cycle time

Shortened by 10%

(Compared to the ED160BR-5 model)





ED160 Blade Runner has the power to doze and backfill in all recommended operating positions.

Dimensions:

 $3,260 \text{ mm (width)} \times 810 \text{ mm (height)}$

Working ranges:

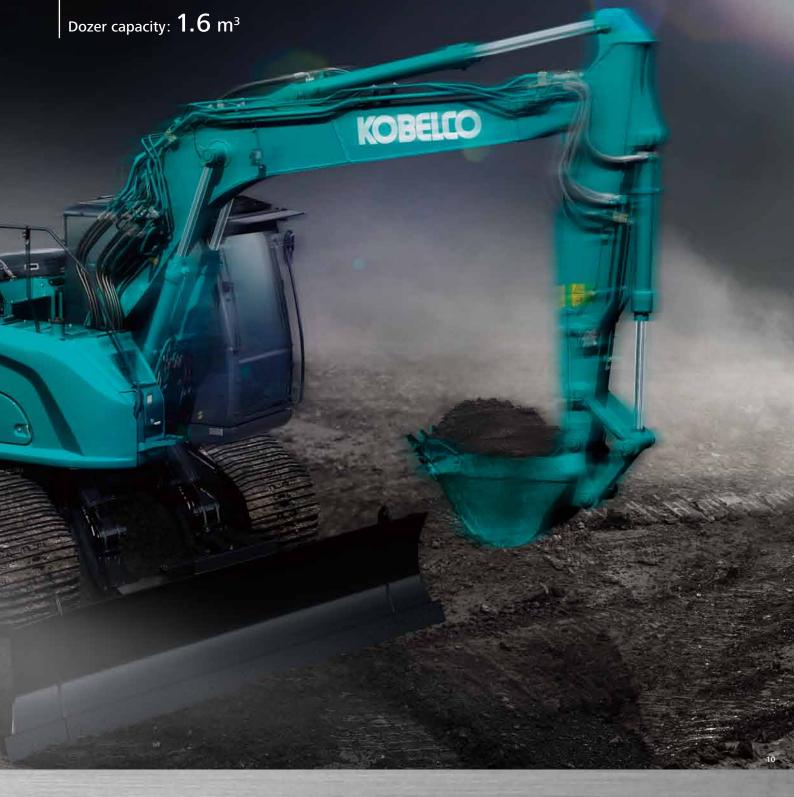
790 mm (height), 600 mm (depth)

Drawbar pulling force: $195 \ kN$



Plenty of ground clearance

Excellent ground clearance ensures unhindered travel.



GREATER MULTI-FUNCTION CAPABILITIES



ATTACHMENT CONTROL MODES

	TYPE	MODE	OBJECTIVE OF MODE	
	=	Bucket	Balanced operation is provided, with precision control for operations such as levelling.	
CURRENT MODE	•	Breaker	The arm regeneration function is adjusted, and considers the additional weight of the front attachment.	
	M	Nibbler (crusher)	Hydraulics are optimised to reduce the effect of opening/closing the nibbler (crusher) on arm speed, allowing smooth control.	

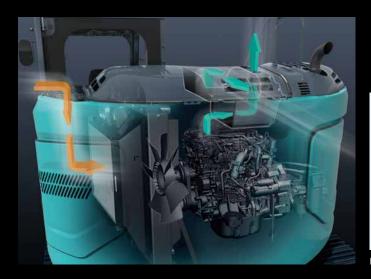
	TYPE	MODE	MODE OBJECTIVE OF MODE		
	7	Rotating grapple	Simultaneous swing operation while raising the attachmer is possible, even on a slope, aided by a 2-speed proportion valve system on the boom circuit.		
NEWLY	*	Processor	The N&B flow rate is set to maximum performance. Regeneration of arm in operation while using the front attachment is changed.		
ADDED MODE	6	Thumb bucket	Operation is optimised to allow swing operation while simultaneously raising the attachment and opening thumb.		
	A .	Tilt rotator	Multi-function of the hydraulic operations is optimised, preventing hydraulic interference while using the tilt rotate		
		Spare mode for custom setting	A spare attachment control mode is provided to allow for customisation of hydraulic settings, for specific attachment usages not described above.		

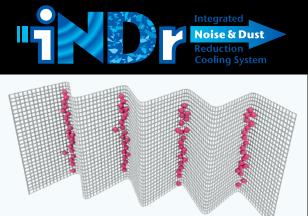
Adjustment for hydraulic flow

Machine operability characteristics and prioritisation of hydraulic flow can be adjusted by technicians, for customised performance.



NON-STOP OPERATION BY INDr





How the filter catches dust

iNDr Filter

A high-density stainless steel mesh filter blocks dust and debris from entering the cooling package during air intake. This prevents the cooling package and air cleaner from clogging, allowing the machine to maintain cooling performance. The ridges of the corrugated filter allow air to pass through, while the grooves collect dust and debris, preventing the filter from clogging.

GEOSCAN

Excavator Remote Monitoring System

Total Support for Machines with Network Speed and Accuracy

GEOSCAN is a telematics system for receiving machine information. Manage your machines anywhere in the world using the Internet. Location, workload and diagnostic data aid business operations.

Direct Access to Operational Status

Location Data

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

Fuel Consumption Data

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

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.

Graph of Work Content

The graph shows how working hours are divided among different operating categories, including digging, idling, travelling, and optional operations (N&B).



GEO SCAN

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.

station Security System

Engine Start Alarm

Sends a notification if the engine is started outside of pre-defined hours.

Area Alarm

Sends a notification if the machine leaves a pre-defined area.

CONVENIENT AND SENSIBLE EQUIPMENT



Wiper adjustment function In addition to the intermittent wiper mode and continuous wiper mode, the one-time wiper mode was added.



control levers Operator can adjust height of attachment

Adjustable height pilot

control levers.



AM/FM Bluetooth® (hands-free) radio

Audio streaming and hands free phone calling capability.

*Bluetooth® is a registered trademark of the Bluetooth SIG Inc.



USB port / 12V power outlet



Smartphone holder You can use the holder with your smartphone connected to the USB port.



Opening Top guard The Top guard is hinged, allowing easy access to the top window for serviceability.



Ground level AdBlue® tank *AdBlue® is a registered trade mark of the Verband der Automobilindustrie e.V. (VDA).







Built-in rear, left and right side cameras

Specifications



Engine

Model	ISUZU MOTORS LIMITED 4JJ1XDRAC-01	
Туре	Four-cycle, liquid-cooled, direct injection diesel, turbo charged complies with Tier 4 Final exhaust emission regulation	
No. of cylinders	4	
Bore and stroke	95.4 mm x 104.9 mm	
Displacement	2.999 L	
Rated power output	78.6 kW/2,200 min ⁻¹ (ISO 9249: with fan)	
nateu power output	86 kW/2,200 min ⁻¹ (ISO 14396: without fan)	
Max. torque	354 N·m/1,800 min ⁻¹ (ISO 9249: with fan)	
wax. torque	375 N·m/1,800 min ⁻¹ (ISO 14396: without fan)	



Travel system

Travel motors	Variable displacement piston,	
Travel motors	two-speed motors	
Travel brakes	Hydraulic brake	
Parking brakes	Wet multiple plate	
Travel shoes	40 each side	
Travel speed	2.4/4.8 km/h	
Drawbar pulling force	195 kN (SAE)	
Gradeability	70% {35°}	



Cab & control

Hydraulic system

Pump			
Туре	Two variable displacement piston pumps + two gear pumps		
Max. discharge flow	2 x 142 L/min 1 x 22 L/min (Pilot), 1 x 67 L/min (Dozer)		
Relief valve setting			
Boom, arm and bucket	34.3 MPa		
Travel circuit	34.3 MPa		
Swing circuit	28.0 MPa		
Dozer circuit	24.5 MPa		
Control circuit	5.0 MPa		
Pilot control pump	Gear type		
Main control valves	12-spool		
Oil cooler	Air cooled type		

All-weather, sound-suppressed steel cab mounted on the silicon-sealed viscous mounts 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	

Swing system

Swing motor	One fixed displacement piston motor	
Brake	Hydraulic; locking automatically when the swing control lever is in the neutral position	
Parking brake	Wet multiple plate	
Swing speed	11.0 min ⁻¹	
Tail swing radius	1,490 mm	
Swing torque	40.4 kN·m	

D

Boom, arm & bucket

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



Dozer blade

Dozer cylinder	114 mm x 210 mm	
Dimensions	3,260 mm (width) x 810 mm (height)	
Working ranges	790 mm (up) x 600 mm (down)	
Max. tilt height	445 mm	
Angle	25 degrees	



Refilling capacities & lubrications

Fuel tank	186 L
Cooling system	17 L
Engine oil	17 L
Travel reduction gear	2 x 4.5 L
Swing reduction gear	1.65 L
Hudraulic ail tank	89.9 L tank oil level
Hydraulic oil tank	190 L hydraulic system
DEF/Urea tank	26 L

Attachments

Backhoe bucket and combination

Use -		Backhoe bucket			
		Normal digging			
Pucket capacity	ISO heaped	m³	0.38	0.45	0.50
Bucket capacity	Struck	m³	0.28	0.35	0.38
Opening width	With side cutter	mm	800	915	1,000
Opening width	Without side cutter	mm	740	855	940
No. of teeth		4	4	5	
Bucket weight kg		340	360	390	
Combination	2.38 m arm		0	0	0
	2.84 m arm		0	Δ	×

O Recommended

riangle Loading only

X Not recommended





Working ranges

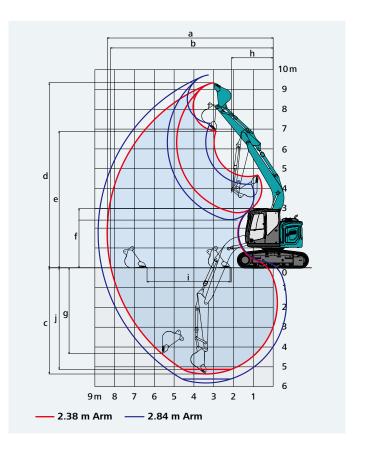
Unit: m

		Offic. III
Boom	4.6	8 m
Range	2.38 m	2.84 m
a-Max. digging reach	8.37	8.81
b-Max. digging reach at ground level	8.17	8.62
c- Max. digging depth	5.36	5.79
d-Max. digging height	9.34	9.73
e-Max. dumping clearance	6.91	7.30
f- Min. dumping clearance	2.78	2.44
g-Max. vertical wall digging depth	4.34	4.77
h-Min. swing radius	2.13	2.52
i- Horizontal digging stroke at ground level	4.22	4.71
j- Digging depth for 2.4 m (8') flat bottom	5.13	5.60
Bucket capacity ISO heaped m ³	0.50	0.38



Unit: kN

Arm length	2.38 m	2.84 m			
Bucket digging force	105.4				
Arm crowding force	64.0	58.0			





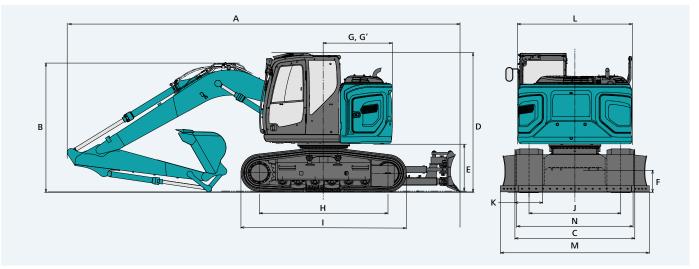
Dimensions

Unit: mm

A Overall length 8,550 8,640 B Overall height (to top of boom) 2,820 3,180 C Overall width of crawler (600 mm shoe) 2,590 D Overall height (to top of cab) 3,020 E Ground clearance of rear end* 1,030 F Ground clearance* 455 G Tail swing radius {additional counterweight} 1,490 {1,610**/1,670***}	Arı	m length	2.38 m	2.84 m	
C Overall width of crawler (600 mm shoe) 2,590 D Overall height (to top of cab) 3,020 E Ground clearance of rear end* 1,030 F Ground clearance* 455	Α	Overall length	8,550	8,640	
D Overall height (to top of cab) 3,020 E Ground clearance of rear end* 1,030 F Ground clearance* 455	В	Overall height (to top of boom)	2,820	3,180	
E Ground clearance of rear end* 1,030 F Ground clearance* 455	С	Overall width of crawler (600 mm shoe)	2,5	90	
F Ground clearance* 455	D	Overall height (to top of cab)	3,0)20	
	Ε	Ground clearance of rear end*	1,0	30	
G Tail swing radius {additional counterweight} 1 490 {1 610**/1 670***}	F	Ground clearance*	45	55	
3 11 13 (1) 15 (1) 17 17 17 17	G	Tail swing radius {additional counterweight}	1,490 {1,610	**/1,670***}	

G'	Distance from centre of swing to rear end {additional counterweight}	1,490 {1,600**/1,670***}
Н	Tumbler distance	2,800
1	Overall length of crawler	3,600
J	Track gauge	1,990
K	Shoe width	600
L	Overall width of upperstructure	2,480
М	Overall width (blade wings extended)	3,260
N	Folding blade width	2,460

*Without including height of shoe lug **580 kg counterweight ***1,000 kg counterweight

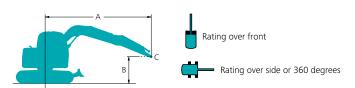


Operating weight & ground pressure

Boom: 4.68 m Arm: 2.38 m Bucket: 0.5 m³ ISO heaped bucket Dozer: with

	Curved triple grouser shoes								
Shoes (mm)	500	600	500	600	500	600			
Counterweight	stan	dard	+ 58	80 kg	+ 1000 kg				
Ground pressure (kPa)	53.5	45.2	55.4	46.8	56.7	47.8			
Operating weight (kg)	16,800	17,000	17,400	17,600	17,800	18,000			

Lift capacities



- A Reach from swing centreline to arm top
- B Arm top height above/below ground
- C Lift point

Relief valve setting: 34.3 MPa

ED160E	BR	Arm: 2.3	Arm: 2.38 m Counterweight: 1,720 kg Shoe: 600 mm Dozer: blade up Bucket: without									
	Α	1.5	5 m	3.0) m	4.5	m	6.0	m	At max	c. reach	
В		1	—	1			_	1		1		Radius
7.5 m	kg									*2,180	*2,180	4.06 m
6.0 m	kg					*3,390	*3,390			*1,780	*1,780	5.68 m
4.5 m	kg			*4,470	*4,470	*3,730	3,640	2,760	2,280	*1,660	*1,660	6.57 m
3.0 m	kg			*6,840	6,280	4,210	3,380	2,660	2,180	*1,670	*1,670	7.03 m
1.5 m	kg			*5,040	*5,040	3,910	3,110	2,530	2,070	*1,780	1,590	7.13 m
G.L.	kg			*6,320	5,350	3,730	2,950	2,440	1,980	2,000	1,640	6.90 m
–1.5 m	kg	*5,680	*5,680	7,390	5,380	3,690	2,910	2,430	1,970	2,270	1,850	6.30 m
-3.0 m	kg	*9,370	*9,370	*6,180	5,540	3,780	2,990			3,070	2,470	5.20 m

ED160B	R	Arm: 2.3	Arm: 2.38 m Counterweight: 1,720 + 580 kg Shoe: 600 mm Dozer: blade up Bucket: without									
	А		5 m	3.0) m	4.5	m	6.0) m	At max	c. reach	
В		1		4		1	—	1	—	1	—	Radius
7.5 m	kg									*2,180	*2,180	4.06 m
6.0 m	kg					*3,390	*3,390			*1,780	*1,780	5.68 m
4.5 m	kg			*4,470	*4,470	*3,730	*3,730	3,030	2,500	*1,660	*1,660	6.57 m
3.0 m	kg			*6,840	*6,840	*4,520	3,710	2,930	2,410	*1,670	*1,670	7.03 m
1.5 m	kg			*5,040	*5,040	4,230	3,440	2,810	2,290	*1,780	*1,780	7.13 m
G.L.	kg			*6,320	5,940	4,140	3,280	2,720	2,210	*2,010	1,830	6.90 m
–1.5 m	kg	*5,680	*5,680	*7,910	5,970	4,090	3,240	2,700	2,200	*2,510	2,070	6.30 m
–3.0 m	kg	*9,370	*9,370	*6,180	6,130	4,190	3,320			*3,340	2,750	5.20 m

ED160B	R	Arm: 2.38	Arm: 2.38 m Counterweight: 1,720 + 1,000 kg Shoe: 600 mm Dozer: blade up Bucket: without										
	Α	1.5	m	3.0) m	4.5	m	6.0) m	At max	c. reach		
В		1		1		1		1		<u>l</u>		Radius	
7.5 m	kg									*2,180	*2,180	4.06 m	
6.0 m	kg					*3,390	*3,390			*1,780	*1,780	5.68 m	
4.5 m	kg			*4,470	*4,470	*3,730	*3,730	3,230	2,670	*1,660	*1,660	6.57 m	
3.0 m	kg			*6,840	*6,840	*4,520	3,950	3,130	2,580	*1,670	*1,670	7.03 m	
1.5 m	kg			*5,040	*5,040	4,610	3,680	3,010	2,460	*1,780	*1,780	7.13 m	
G.L.	kg			*6,320	*6,320	4,430	3,520	2,920	2,380	*2,010	1,970	6.90 m	
–1.5 m	kg	*5,680	*5,680	*7,910	6,390	4,390	3,480	2,900	2,370	*2,510	2,220	6.30 m	
–3.0 m	kg	*9,370	*9,370	*6,180	*6,180	*4,250	3,560			*3,340	2,940	5.20 m	

Note

- 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.
- 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 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.
- 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.



STANDARD EQUIPMENT

ENGINE

- Engine, ISUZU 4JJ1XDRAC-01, diesel engine with turbocharger and intercooler (Tier 4 Final compliant engine)
- Auto Idle Stop
- Automatic engine deceleration
- Batteries (2 x 12 V 80 Ah)
 Starting motor (24 V 4 kW), 50 amp alternator
- Engine oil pan drain cock
- Double element air cleaner

CONTROL

- Working mode selector (H-mode, S-mode and ECO-mode)
- Extra N&B piping (proportional hand controlled)
- Quick hitch piping

SWING SYSTEM & TRAVEL SYSTEM

- Swing rebound prevention system
- Straight propel system
 Two-speed travel with automatic shift down
- Sealed & lubricated track links
- 600 mm curved shoe
- Grease-type track adjusters
- Automatic swing brake
- Tilt angle dozer blade ■ Lower frame guard
- Travel alarm

MIRROR, LIGHTS & CAMERAS

- Rear view mirror, rear view camera, left side view camera and right side view camera
- Eagle eve view
- Three front working lights (two for boom and one for right storage box)

CAB & CONTROL

- Two control levers, pilot-operated
- Horn, electric
- Integrated left-right slide-type control box
- Cab light (interior)
- Coat hook
- Large cup holder
- Detachable two-piece floor mat
- GRAMMER air suspension seat with heater
- Retractable seatbelt
- Headrest
- **■** Handrails
- Intermittent windshield wiper with double-spray washer
- Skylight
- Openable top guard (ISO 10262: 1998)
- Tinted safety glass
- Pull-up type front window and removable lower window
- Easy-to-read 10-inch LCD SCREEN multi-display monitor
- Emergency escape hammer Radio (AUX & Bluetooth®)
- 12 V converter
- Remote machine monitoring system "GEOSCAN"
- USB port
- Automatic air conditioner
- Hands-free telephone

OPTIONAL EQUIPMENT

- 2.84 m arm
- 500 mm curved shoe
- Front-guard protective structure (may interfere with bucket action)
- LED cab additional lights
- Wide range of buckets

Note: Standard and optional equipment may vary. Consult your KOBELCO dealer for specifics. Bluetooth® is a registered trademark of the Bluetooth SIG Inc.

- Rain visor (may interfere with bucket action)
- Add-on counterweight (+ 580/1,000 kg)
- Roll sun shade
- Multi control valve

Note: This catalogue may contain attachments and optional equipment the machines with specifications that differ from those of machines sold in your avoir require. Due to our policy of continuous product improvements all designs	at are not available in your area. And it may contain photographs of areas. Please consult your nearest KOBELCO distributor for those items and specifications are subject to change without advance notice.
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