

KOBELCO

Hydraulic Excavators **SK200SR SK200SRLC**

Bucket Capacity: 0.51-0.80 m³ SAE Heaped
Engine Power: 91.9 kW (125 PS) at 2,200 min⁻¹
Operating Weight: 19,900 kg-SK200SR
20,400 kg-SK200SRLC



The SR Series: The Standard for Operation Within a Small Rear Swing Radius



Imagine a full-performance hydraulic excavator series with an ultra-small rear swing radius that allows the operator to focus on the job in front of him, even in narrow spaces. The KOBELCO SR Series is designed with precisely that in mind, and has won the unqualified approval of operators and owners on work sites throughout the world. SR Series machines offer all the benefits of small rear swing, but also do the same work as conventional models, providing optimal versatility. Carrying on the proud tradition of their predecessors, the new SK200SR/SK200SRLC machines represent a new standard in small rear-swing radius operation.

Full-sized Performance With a Tiny Rear Swing Radius

Ultra-small Rear Swing Radius Lets You Concentrate on the Job

The rear of the upper carriage stays nearly within the crawler width which provides you safer and more efficient operations during swinging.

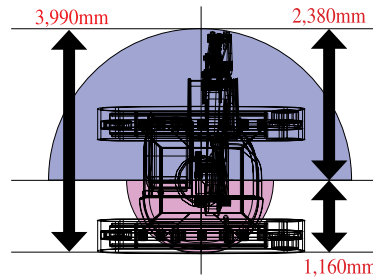
Utilization boosted, with two benefits

There's less chance of colliding with onsite obstacles, and operations are possible at previously inaccessible locations such as tight up against walls or on forest, without constant worry about the rear. And owners win twice over, with a machine that does the same work as a conventional model, yet has the small rear swing advantage.



An Operating Radius of Less Than 4 m

When swinging 180°, the SK200SR/SK200SRLC takes up less than four meters of operating space, making continuous digging, swinging, and loading operations possible on worksites such as forest roads and crowded streets.



Power Boost System

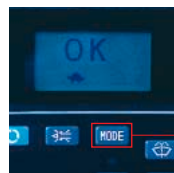
When a large rock or tree roots are encountered, this feature maximizes performance by providing a temporary 10% increase in digging power to the bucket and arm.

Bucket digging force:
111 kN to 122 kN

Arm crowding force:
79.3 kN to 87.2 kN

Three ITCS Operating Modes

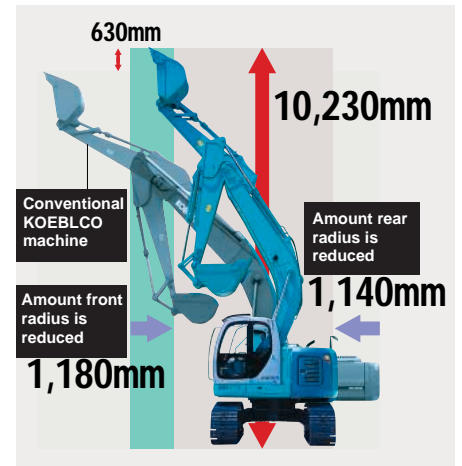
Three operating modes are available with the simple flick of a switch.
H-Mode for heavy digging
S-Mode for energy-efficient operation
FC-Mode for fine control.



Switch

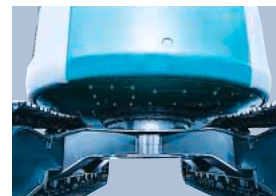
Higher Digging Height and Smaller Rear Swing

Max. digging reach is higher than other machines in its class, making it well suited for demolition work.



Excellent Stability and Performance

The floor of the upper frame is constructed with a single, thick steel plate that provides sure-footed stability.



Automatic Two-speed Travel System

An automatic shift function ensures smoother, more efficient travel on the worksite.

High mode: 5.0 km/h
Low mode: 3.5 km/h

An Industry First! Auto Idling Stop (Option)

Reduces air pollution by cutting exhaust emissions

Auto Idling Stop eliminates wasteful and unnecessary engine idling. It cuts emissions of nitrogen oxide and carbon dioxide, minimizing the machine's effect on atmospheric pollution and global warming.



Auto Idling Stop (AIS) control switch

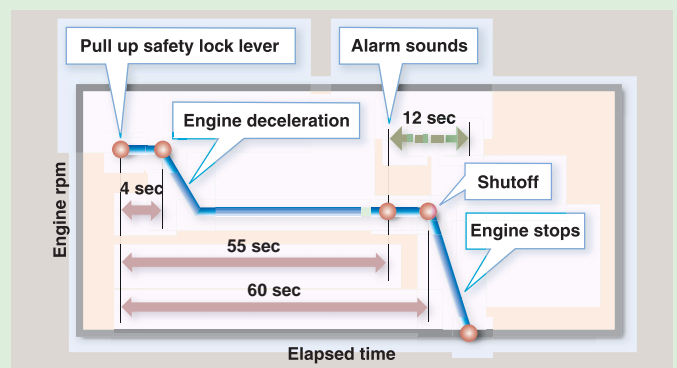
Reduces fuel consumption by approx. 20% (KOBELCO comparisons)

A big boost to energy saving! Fuel consumption is cut by approx. 20% compared with conventional machines. Significant savings can be made on fuel costs.

Note: May vary, according to operating conditions.

AIS System

The AIS system is activated whenever the safety lock lever is pulled up.

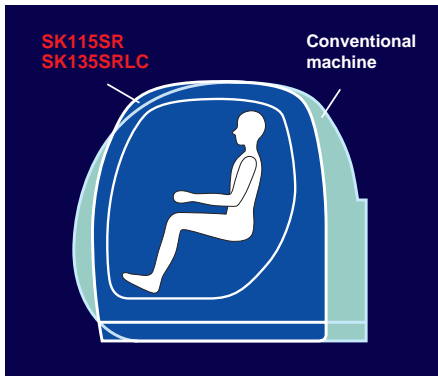


Spacious, Quiet, and Comfortable Cab Makes the Difference

Spacious Comfort Cab Provides Plenty of Room

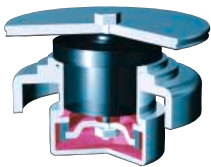
Though compact on the outside, the cab provides a comfortable and spacious working environment on the inside.

- High head clearance for easy entry.
- Cab width and foot space comparable to conventional machines.
- Double-slide seat ensures optimal operating posture.

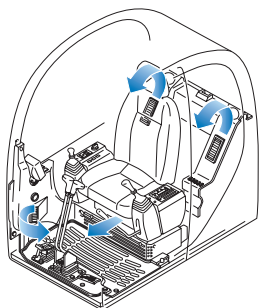


Low-noise, Low-vibration Design

Cab noise is a quiet 73dB(A), thanks to an insulation panel with deep grooves installed in the back. Vibration is also minimized with the help of sealed viscous cab mounts.



Automatic Climate Control System Provides Simple Environmental Control



The powerful, automatic climate control system introduces outside air, and comes equipped with a defroster.

4,100 kcal/h in cooling mode
4,900 kcal/h in heating mode



Additional mirrors fitted to ensure on-site safety



- A rearview mirror sets to eliminate the usual dead angle behind the counterweight.



Side mirror



Cab side mirror

Wide-view Ensures Safe Operation



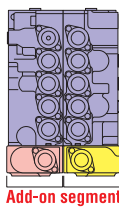
- The area of the front window covered by the wiper has been increased by approximately 11%.

Many Features That Ensure Comfort

- Cup holder
- Storage for small articles
- Large-capacity luggage box
- Door-activated cab light



Broad Versatility Makes It Easy to Choose the Ideal Configuration



Add-on segment

Additional Service Valves

Optional double-action valves can easily be added to the control valve to meet versatile applications.

Optional Dozer Blade

The large dozer blade is very efficient at piling up earth and filling holes, and the dozer hose is jointed to make blade changes easy.

Optional Rubber-padded Shoes

The steel shoes have holes that hold specially designed rubber pads to protect the surface under the machine.





ENGINE

Model:	ISUZU AA-4BG1TC
Type:	Direct injection, water-cooled, 4-cycle diesel engine with intercooled turbocharger
No. of cylinders:	4
Bore and stroke:	105 mm × 125 mm
Displacement:	4,329 cc
Rated power output:	91.9 kW NET at 2,200 min ⁻¹ 125 PS NET at 2,200 rpm
Max. torque:	417 N·m at 1,800 min ⁻¹ 42.5 kgf·m at 1,800 rpm



HYDRAULIC SYSTEM

Pump:	Two variable displacement pumps
Max. discharge flow:	2 × 176 liters/min
Max. discharge pressure:	
Boom, arm and bucket (main):	34.3 MPa (350 kg/cm ²)
Power boost:	37.8 MPa (385 kg/cm ²)
Propel circuit:	34.3 MPa (350 kg/cm ²)
Swing circuit:	28.0 MPa (285 kg/cm ²)
Control circuit:	5.0 MPa (50 kg/cm ²)
Pilot control pump:	Gear type
Control valves:	6-spool
Oil cooler:	Air cooled type (Finned tube, forced ventilation)



CAB & CONTROL

All-weather, sound suppressed steel cab is mounted on the silicon-sealed viscous mount. Large, tinted safety-glass windows, with pull type upper front window and removable lower front windows. Seven-way adjustable dual-slide seat with wrist-action levers, electric rotary-type engine throttle, safety-lock lever, and easy-to-read multi-display monitor. Ventilated, pressurized climate control system, floor mat, intermittent windshield wiper with two-jet washer, light-action cab door, skylight, ashtray, cab light (interior), coat hook, cup holder, and utility box.



ATTACHMENTS



TRAVEL SYSTEM

Drive motors:	Independent, axial-piston, two-step motor for each side
Brakes:	Independent, disc parking brakes for each side
Track shoes:	46 each side -SK200SR 49 each side -SK200SRLC
Travel speed:	5.0/3.5 km/h
Drawbar pulling force:	199 kN (20,380 kgf) (SAE J1309 MAY 91)
Gradeability:	35° (70%)
Ground clearance:	450 mm



SWING SYSTEM

Brake:	Hydraulic, locking automatically when the swing control lever is in neutral position
Parking brake:	Hydraulic disc brake
Swing speed:	11.0 min ⁻¹ (rpm)
Tail swing radius:	1,610 mm
Min. front swing radius:	2,380 mm



BOOM, ARM AND BUCKET

Boom cylinders (2):	115 mm × 1,200 mm
Arm cylinder:	125 mm × 1,290 mm
Bucket cylinder:	105 mm × 1,055 mm



REFILLING CAPACITIES AND LUBRICATIONS

Fuel tank:	270 liters
Cooling system:	18.5 liters
Engine oil:	13 liters
Track drives:	2 × 5.5 liters
Swing drives:	7.5 liters
Hydraulic oil:	
Tank (oil level):	167 liters
Hydraulic system:	215 liters

Use		Backhoe bucket					
		Normal digging				Light digging	
Bucket capacity (SAE heaped)	m ³	0.51	0.63	0.70	0.75	0.8	
Bucket capacity (CECE heaped)	m ³	0.45	0.56	0.61	0.66	0.70	
Opening width	With side cutters	mm	870	990	1,080	1,120	1,160
	Without side cutters	mm	770	890	980	1,020	1,060
No. of teeth			3	5	5	5	5
Combinations	2.60 m arm		○	○	○	○	△
	3.0 m arm		○	○	△	×	×

○ Recommended △ Loading only × Not recommended



WORKING RANGES

Unit: m

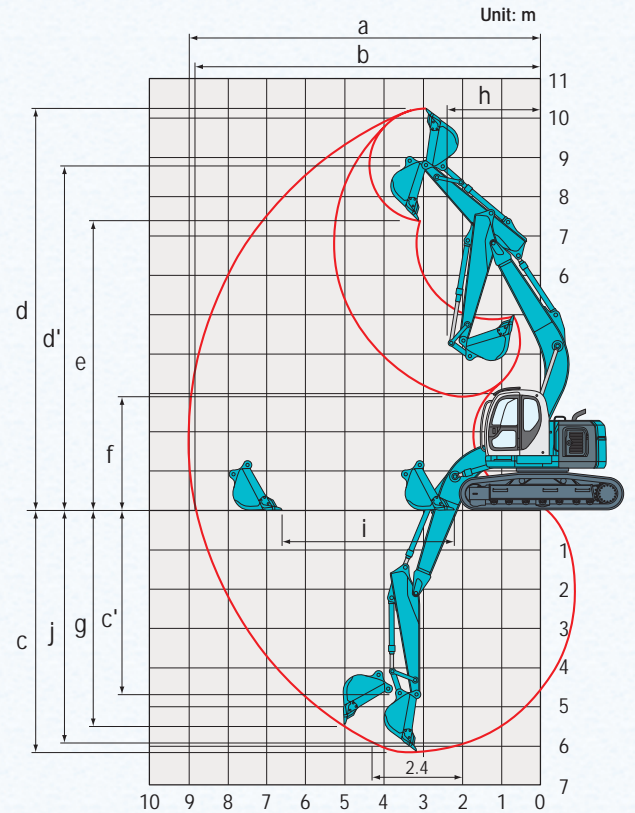
Range	Arm	Standard 2.60 m	3.0m
a - Max. digging reach		9.00	9.38
b - Max. digging reach at ground level		8.80	9.19
c - Max. digging depth		6.15	6.55
c' - Max depth of bucket hinge pin		4.71	5.11
d - Max. digging height		10.23	10.53
d' - Max. height of bucket hinge pin		8.79	9.09
e - Max dumping clearance		7.36	7.66
f - Min. dumping clearance		2.88	2.57
g - Max. vertical wall digging depth		5.40	5.80
h - Min. front swing radius		2.38	2.73
i - Horizontal digging stroke at ground level		4.43	4.82
j - Digging depth for 2.4 m flat bottom		5.93	6.36
Bucket capacity SAE heaped m ³		0.75	0.63

Digging Force

Unit: kN (kgf)

Arm length	2.60m	3.0m
Bucket digging force	111 (11,300) 122 (12,400)*	
Arm crawling force	79.3 (8,100) 87.2 (8,900)*	73.8 (7,500) 81.2 (8,300)*

*Power Boost engaged.



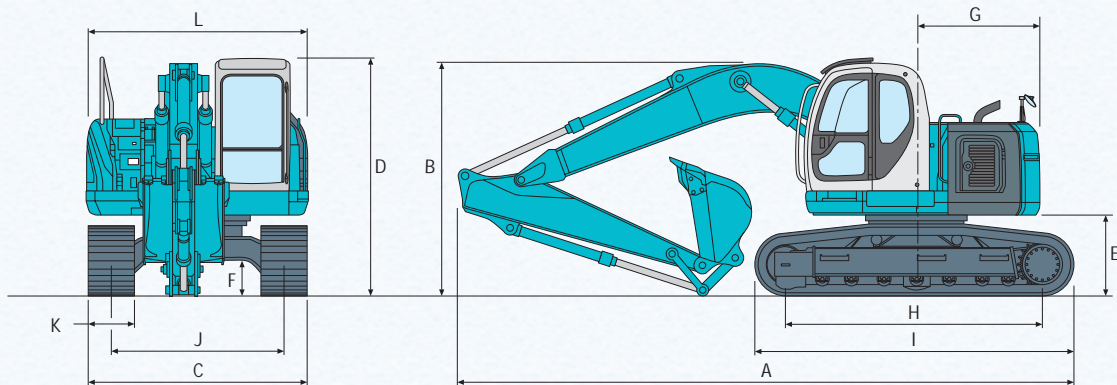
DIMENSIONS

Arm length		2.60 m	3.0 m
A	Overall length	8,050	8,040
		SK200SR	SK200SRLC
B	Overall height (to top of boom)	3,060	2,980
C	Overall width (600 mm shoe)	SK200SR	2,800
		SK200SRLC	2,990
D	Overall height (to top of cab)	3,060	
E	Ground clearance of rear end*	1,030	
F	Ground clearance*	450	

Unit: mm

G	Tail swing radius	1,610	
H	Tumbler distance	SK200SR	3,370
		SK200SRLC	3,660
I	Overall length of crawler	SK200SR	4,170
		SK200SRLC	4,450
J	Track gauge	SK200SR	2,200
		SK200SRLC	2,390
K	Shoe width	600/700/800	
L	Overall width of superstructure	2,800	

* Without including height of shoe lug.

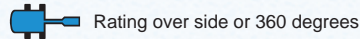
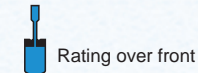
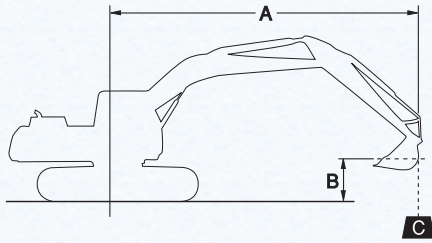


OPERATING WEIGHT AND GROUND PRESSURE

In standard trim, with standard boom, 2.60 m arm, and 0.75 m³ SAE heaped bucket.

Shape		Triple grouser shoe (even height)			
Shoe width		600	700	800	
Overall width	mm	SK200SR	2,800	2,900	3,000
		SK200SRLC	2,990	3,090	3,190
Ground pressure	kPa (kgf/cm ²)	SK200SR	45 (0.45)	39 (0.40)	34 (0.35)
		SK200SRLC	42 (0.43)	37 (0.37)	33 (0.33)
Operating weight	kg	SK200SR	19,900	20,200	20,400
		SK200SRLC	20,400	20,600	20,900

LIFTING CAPACITIES



A - Reach from swing centerline to bucket hook

B - Bucket hook height above/below ground

C - Lifting capacities in kilograms

• Max. discharge pressure: 37.8 MPa (385 kg/cm²)

		SK200SR Standard Arm: 2.60 m Bucket: 0.75 m ³ SAE heaped 640 kg Shoe: 600 mm									
B \ A		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m	
7.5 m	kg					*2,610	*2,610				
6.0 m	kg					*2,590	*2,590	*2,740	*2,740		
4.5 m	kg					*3,340	*3,340	*3,250	3,100		
3.0 m	kg			*6,900	*6,900	*4,660	*4,660	*3,850	2,930	*2,210	1,940
1.5 m	kg			*9,310	8,280	*6,090	4,340	*4,550	2,740	*2,800	1,860
G. L.	kg			*8,660	7,890	*7,070	4,080	4,720	2,600	*2,070	1,800
-1.5 m	kg	*6,530	*6,530	*11,460	7,860	7,410	3,990	4,660	2,540		
-3.0 m	kg	*9,860	*9,860	*10,580	8,030	*7,020	4,040				
-4.5 m	kg	*14,290	*14,290	*8,200	*8,200						

		SK200SR Standard Arm: 2.60 m Bucket: 0.75 m ³ SAE heaped 640 kg Shoe: 600 mm (with additional counterweight)									
B \ A		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m	
7.5 m	kg					*2,610	*2,610				
6.0 m	kg					*2,590	*2,590	*2,740	*2,740		
4.5 m	kg					*3,340	*3,340	*3,250	*3,250		
3.0 m	kg			*6,900	*6,900	*4,660	*4,660	*3,850	3,350	*2,210	*2,210
1.5 m	kg			*9,310	*9,310	*6,090	4,960	*4,550	3,170	*2,800	2,180
G. L.	kg			*8,660	*8,660	*7,070	4,690	*5,110	3,020	*2,070	*2,070
-1.5 m	kg	*6,530	*6,530	*11,460	8,990	*7,410	4,600	5,220	2,970		
-3.0 m	kg	*9,860	*9,860	*10,580	9,150	*7,020	4,660				
-4.5 m	kg	*14,290	*14,290	*8,200	*8,200						

		SK200SRLC Standard Arm: 2.60 m Bucket: 0.75 m ³ SAE heaped 640 kg Shoe: 600 mm									
B \ A		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m	
7.5 m	kg					*2,610	*2,610				
6.0 m	kg					*2,590	*2,590	*2,740	*2,740		
4.5 m	kg					*3,340	*3,340	*3,250	3,250		
3.0 m	kg			*6,900	*6,900	*4,660	4,660	*3,850	3,380	*2,210	*2,210
1.5 m	kg			*9,310	*9,310	*6,090	5,050	*4,550	3,190	*2,800	2,190
G. L.	kg			*8,660	*8,660	*7,070	4,780	*5,110	3,050	*2,070	*2,070
-1.5 m	kg	*6,530	*6,530	*11,460	9,390	*7,410	4,680	*5,330	2,990		
-3.0 m	kg	*9,860	*9,860	*10,580	9,560	*7,020	4,740				
-4.5 m	kg	*14,290	*14,290	*8,200	*8,200						

		SK200SRLC Standard Arm: 2.60 m Bucket: 0.75 m ³ SAE heaped 640 kg Shoe: 600 mm (with additional counterweight)									
B \ A		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m	
7.5 m	kg					*2,610	*2,610				
6.0 m	kg					*2,590	*2,590	*2,740	*2,740		
4.5 m	kg					*3,340	*3,340	*3,250	3,250		
3.0 m	kg			*6,900	*6,900	*4,660	4,660	*3,850	3,830	*2,210	*2,210
1.5 m	kg			*9,310	*9,310	*6,090	5,710	*4,550	3,640	*2,800	2,530
G. L.	kg			*8,660	*8,660	*7,070	5,440	*5,110	3,500	*2,070	*2,070
-1.5 m	kg	*6,530	*6,530	*11,460	10,620	*7,410	5,340	*5,330	3,440		
-3.0 m	kg	*9,860	*9,860	*10,580	*10,580	*7,020	5,400				
-4.5 m	kg	*14,290	*14,290	*8,200	*8,200						

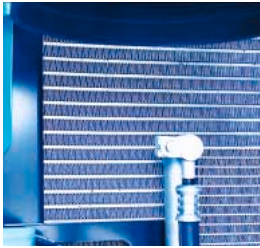
Notes:

- Do not attempt to lift or hold any load that exceeds these rated values at their specified load radii and heights.
- Lifting capacities assume a machine standing on a level, firm, and uniform supporting surface. Operator must make allowance for job conditions such as soft or uneven ground, out of level conditions, side loads, sudden stopping of loads, hazardous conditions, inexperienced personnel, weight of various other buckets, lifting slings, attachments, etc.
- Ratings at bucket lift hook.
- The above rated loads are in compliance with SAE J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Rated loads marked with an asterisk(*) are limited by hydraulic capacity rather than tipping load.
- Operator should be fully acquainted with the operators' manual before operating this machine. Rules for safe operation of equipment should be followed at all times.
- Capacities apply only to the machine as originally manufactured and normally equipped by KOBELCO Construction Machinery, Ltd.

Reliable, Safe, and Easy to Maintain

Aluminum Oil Cooler Resists Corrosion and Is Easy to Clean

The oil cooler's can be easily disassembled and removed to simplify cleaning. (The photo shows the cooler with the left side removed.)



Reliable Brake and Lock Functions Enhance Safety



- Safety lever-lock prevents accidental operation during cab entry and exit.
- Swing and parking brakes keep the machine immobilized when stopped.
- Optional boom and arm safety valves keep the attachment from drifting.
- Emergency engine stop overrides all other functions to shut the engine down.

Multifunctional Check & Safety Monitor Is Easy to Read



- The list of visually checked items has been reduced to 11 to simplify daily maintenance.
- The 29-item self-diagnostic function pinpoints malfunctions before a serious problem develops and provides emergency back-up.
- The service diagnostic function (23 items) supports quick and accurate repair servicing.

Simple, Rugged Design Ensures That the Machine Retains Its Long-term Value

- 1 High-quality urethane paint resists wear.
- 2 Steel-sheet cover is easy to repair.
- 3 The floor of the upper body is a single steel plate for added strength.
- 4 Tough, X-frame chassis can handle uneven terrain with ease.
- 5 Lower spring cover protects spring of idler.
- 6 Three-piece crawler frame provides excellent rigidity.
- 7 Modified shape of motor cover keeps out mud and gravel.



Service bonnet has gas damper cylinder for easy opening.



Hydraulic oil gauge shown against white background for easier reading.

Easy to Maintain



- Easy access to the drain cock
- Introduced flange-type fuel tank for easy cleaning
- The front panels of the oil cooler and radiator are designed with spaces that allow a hand to be inserted.
- Wavy-finned radiator resists clogging.
- The floor mat is designed for easy washing with water.



Super Fine Filter, a Long-Life Filter for Hydraulic Oil

Filter life extended to 1,000 hours



Large capacity Super Fine Filter is made of high performance filter medium. It requires changing only once in 1,000 hours double the life of conventional filters. It saves on lifelong operating costs.

KOBELCO CONSTRUCTION MACHINERY CO., LTD.

17-1, Higashigotanda 2-chome, Shinagawa-ku, Tokyo 141-8626 JAPAN
Tel: ++81 (0) 3-5789-2126 Fax: ++81 (0) 3-5789-2134

Inquiries To: