KOBELCO

CONSTRUCTION MACHINERY LINE-UP

Built for Perfectionists

Superb, Uniform Quality

Japan's first electric shovel in 1930

In 1930, Kobe Steel manufactured Japan's first domestically produced electric shovel, followed by Japan's first hydraulic excavator in 1963. Since then, the KOBELCO brand has been associated with groundbreaking construction machinery ranging from civil engineering equipment to machines used in recycling operations.

In developing new products, we always start with actual worksites. What do owners and operators really need in today's market? What are the onsite conditions, and how can we make operations easier, faster, and more efficient? By asking the right questions from the start, we've created an impressive lineup of machines that have won international praise for their excellent performance, fuel efficiency, and whisper-quiet operation.

Around the Globe

We are always prepared to conduct research and development from the customer's perspectives. We create new values by further deepening the ingenious technology we have developed to date as well as effectively using the latest technology such as three- dimensional CAD and structural analysis and basic research.

We have an ideal system tailored to customer needs. Those needs are analyzed at worksites throughout the world, forming the basis for developmental work at Production Division and the Product Development Engineering Division and the new plant, including the invention of efficient production technologies. We then transfer the results to our various production centers throughout the world, making it possible for us to quickly and reliably deliver machines featuring unprecedented fuel efficiency, productivity, durability, and advanced technology to customers around the globe.

Hiroshima Headquarters

Itsukaichi Factory in Hiroshima

PRODUCT BRANDS CONCEPT

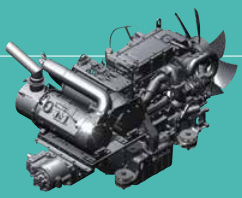
Performance X Design

PERFORMANCE

Improved power and cycle speed increase work efficiency and productivity.

Perceivable performance

- High-output engine which conforms to the emission regulation STAGE V



Approaches to multi-function and diversity

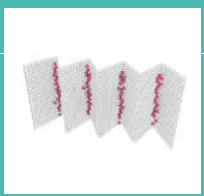
- 10-inch color monitor (the largest in the industry)
- Attachment mode

Safety

- Right and rear cameras

Ease of maintenance

- iNDr high-density mesh filter which removes dust, allowing the cooling equipment to be maintained
- KOMEXS which totally supports machines through network speed and accuracy



KOBELCO has realised a completely new value by harmonising PERFORMANCE – greater efficiency and productivity with an increased power and speed and DESIGN – operator-based operability and comfort, refusing to accept any compromises. In pursuit of unique and matchless machines which are unforgettable once you use them, KOBELCO will continue to rise to meet every challenge.

DESIGN

Our pursuit of operability and comfort primarily for operators created the beauty of simplicity.

Design contributing to comfort

- Comfortable and cozy cab

Design contributing to operability

- Jog dial that allows simple operations
- LED backlights

Interior and exterior designs

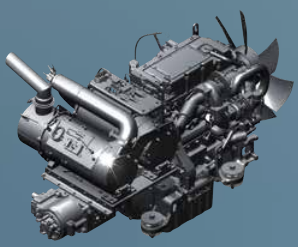
- Solid & Advanced exterior design
- High-Grade & Advanced interior design

CONVENTIONAL SERIES

Performance X Design

SK210LC

SK210LC-11E



Model: YANMAR 4TN107FTT

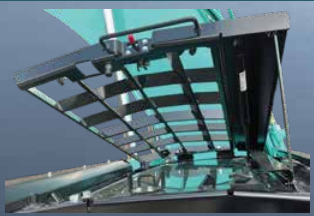
Engine output
127kW / 2,100 min^{-1} (ISO 14396)

Cycle time
(1. Digging | 2. 90° swing | 3. Dumping | 4. 90° swing)
< H-mode >
Shortened by 2%
(Compared to H-mode on SK210LC-11)

Fuel consumption
(Fuel usage per hour)
< S-mode >
Improved by 6%
(Compared to S-mode on SK210LC-11)

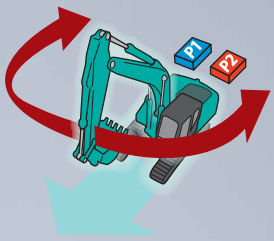
Productivity
(Digging volume/ Fuel)
< Eco-mode >
Increased by 9%
(Compared to Eco-mode on SK210LC-11)

Overhead Top Guard Level II



The standard overhead top guard can be tilted open with gas damper for easy window cleaning. Meets standard top guard level II requirement. (ISO 10262)

Independent Travel



Selecting Independent Travel dedicates one hydraulic pump to travel and one to the attachment on a continuous basis, allowing for a smooth and constant movement speed even while swinging or using the boom or attachment. With Independent Travel, safely carrying a large pipe across a job site is a breeze.

Heavy Lift

High hydraulic pressure (Heavy Lift) means greater lifting power, at close radius, allowing for smooth and steady operation while moving heavy objects.

Swing Priority

Our exclusive system automatically and instantly delivers full swing power during combined operations. There's no need to switch modes to make quick work of jobs like side-digging and back-filling.

Greater Multi-function Capabilities

Adjustment for hydraulic flow

Divide ratio of hydraulic flow can be adjusted by service staff for custom usage.

Two LED lights on C/W

From the -11E models, two additional LED lights are added on the top of the counterweight for additional safety .

CONVENTIONAL SERIES

Performance Design

SK130LC

Performance Design

SK180LC

Performance Design

SK210LC

Model		SK130LC	SK180LC SK180N	SK210LC SK210NLC
Bucket Capacity	m^3	0.24 - 0.70	0.63	0.45 - 0.80
Engine Power (ISO 14396)	kW/min^{-1}	78.5/2,000	100/2,000	127/2,000
Operating Weight	kg	14,200 - 17,100	19,700 - 21,200/19,000 - 20,300*1	22,100 - 23,100/22,000 - 22,700*2
Bucket Digging Force (Power Boost)	kN	105.4	114 (126)	143 (157)
Arm Crowding Force (Power Boost)	kN	64.0	82.3 (90.6)	102 (112)
Overall Length	mm	7,770	8,700	9,500
Overall Width	mm	2,590	2,800/2490*1	2,990/2,800*2
Overall Height	mm	2,920	3,080	3,060

*1SK180N *2SK210NLC

Model		SK260LC SK260NLC	SK300LC SK300NLC	SK350LC SK350NLC
Bucket Capacity	m^3	0.40 - 1.40	0.60 - 1.40	1.20 - 1.80
Engine Power (ISO 14396)	kW/min^{-1}	155/2,200	210/1,900	210/1,900
Operating Weight	kg	26,700 - 27,300/26,600 - 27,200*1	30,500 - 33,000/30,500 - 32,000*2	36,700 - 39,300/36,600 - 38,400*3
Bucket Digging Force (Power Boost)	kN	170 (187)	188 (208)	222 (244)
Arm Crowding Force (Power Boost)	kN	122 (134)	126 (139)	163 (180)
Overall Length	mm	10,210	10,710	11,300
Overall Width	mm	3,190/2,990*1	3,190/2,990*2	3,190/2,990*3
Overall Height	mm	3,240	3,260	3,420

*1SK260NLC *2SK300NLC *3SK300NLC

CONVENTIONAL SERIES

SK530LC

Model		SK530LC	SK530LC ME
Bucket Capacity	m^3	1.4 - 2.4	1.4 - 3.4
Engine Power (ISO 14396)	kW/min^{-1}	280/1,800	
Operating Weight	kg	52,100 - 53,400	52,500 - 53,800
Bucket Digging Force (Power Boost)	kN	267 (292)	288 (312)
Arm Crowding Force (Power Boost)	kN	203 (222)	247 (270)
Overall Length	mm	12,110	11,830
Overall Width (For transportation)	mm	3,490 (2,990)	
Overall Height	mm	3,630	4,290

Performance Design

SK520LC

Performance Design

SK850LC

Model		SK520LC	SK520LC ME	SK850LC	SK850LC ME
Bucket Capacity	m^3	1.4 - 2.4	1.4 - 3.4	2.3 - 4.6	5.4
Engine Power (ISO 14396)	kW/min^{-1}	348/1,800		382/1,800	
Operating Weight	kg	52,900 - 55,000	55,300 - 57,200	80,200 - 86,650	80,200 - 86,600
Bucket Digging Force (Power Boost)	kN	292 (321)	304 (334)	403	432
Arm Crowding Force (Power Boost)	kN	220 (242)	269 (296)	311	351
Overall Length	mm	12,160	12,120	14,530	13,590
Overall Width (For transportation)	mm	3,380		4,440 / 3,400	
Overall Height	mm	3,670	4,330	3,770	

SR SERIES

Performance X Design

SK75SR

Competent Performance

Our high-power engine complies with new STAGE V emission standards for SK75SR and SK85MSR.

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

Model : YANMAR 4TNV98CT

Engine output
Increased by **27.9%**

Digging cycle time
Shortened by **15%**

Loaded boom lifting speed
Increased by **38%**

Arm digging speed
Increased by **37%**

Hill-climbing speed
Increased by **26.9%**

* Figures show the values of SK75SR. These values are compared with the SK75SR-3E model.

Model		SK75SR
Bucket Capacity	m^3	0.11 - 0.35
Engine Power (ISO 14396)	kW/min^{-1}	53.7/2,100
Operating Weight	kg	7,800 - 8,300
Bucket Digging Force	kN	60.2
Arm Crowding Force	kN	35.2
Overall Length	mm	6,360
Overall Width	mm	2,300
Overall Height	mm	2,570

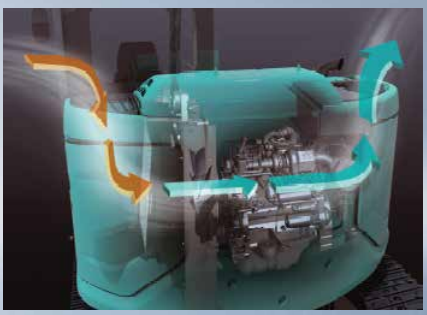
Performance Design

SK85MSR

iNDr Cooling system

KOBELCO's unique iNDr Cooling System ensures remarkably quiet operation. A high-density mesh filter effectively screens out dust during air intake, preventing it from clogging the cooling device and air cleaner and ensuring they maintain peak performance. The corrugated filter's ridges facilitate airflow, while the grooves collect dust, preventing the filter from becoming blocked.

iNDr Integrated Noise & Dust Reduction Cooling System



Model		SK85MSR
Bucket Capacity	m^3	0.11 - 0.35
Engine Power (ISO 14396)	kW/min^{-1}	53.7/2,100
Operating Weight	kg	8,480 - 9,250
Bucket Digging Force	kN	60.3
Arm Crowding Force	kN	33.7
Overall Length	mm	6,750
Overall Width	mm	2,300
Overall Height	mm	2,570

SR SERIES

Performance Design

SK140SR LC

Performance Design

SK140SR L

Model		SK140SRLC	SK140SRL
Bucket Capacity	m^3	0.24 - 0.70	0.5
Engine Power (ISO 14396)	kW/min^{-1}	86/2,200	86/2,200
Operating Weight	kg	15,000 - 18,200	16,900 - 17,400
Bucket Digging Force	kN	105.4	105.4
Arm Crowding Force	kN	64.0	64.0
Overall Length	mm	7,530	7,460
Overall Width	mm	2,590	2,840
Overall Height	mm	2,870	3,050

Performance X Design

ED160 BLADE RUNNER

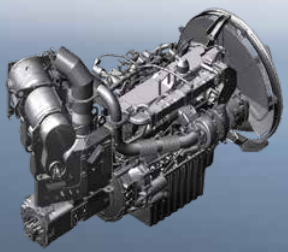
Model		ED160
Bucket Capacity	m^3	0.24 - 0.70
Engine Power (ISO 14396)	kW/min^{-1}	86/2,200
Operating Weight	kg	16,800 - 18,000
Bucket Digging Force	kN	105.4
Arm Crowding Force	kN	64.0
Overall Length	mm	8,550
Overall Width	mm	2,590
Overall Height	mm	3,020

Performance X Design

SK380SR LC

Exceptional Performance

The new SK380SRLC is equipped with a Stage V compliant engine, which has a higher torque value. Superior balance between engine output and torque contributes to more efficient performance than the previous models.
In addition, the DPF maintenance interval has been extended to 8000Hr.



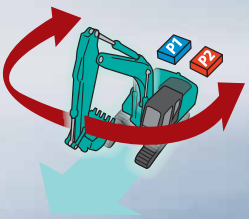
Model : ISUZU 6HK1

Engine output
210 kW / 1,900 min^{-1}
(ISO 14396: without fan)

Short radius design occupies only one lane of highway

In addition to excellent lifting and digging performance, the SK380SRLC has adopted the attachment mode for a variety of tasks such as breaking and operates effectively even in narrow spaces as a single highway lane. Moreover, the cab permits operators to concentrate on work in a wide and comfortable space.

Independent Travel



Selecting Independent Travel dedicates one hydraulic pump to travel and one to the attachment on a continuous basis, allowing for a smooth and constant movement speed even while swinging or using the boom or attachment. With Independent Travel, safely carrying a large pipe across a job site is a breeze.

Heavy Lift

High hydraulic pressure (Heavy Lift) means greater lifting power, at close radius, allowing for smooth and steady operation while moving heavy objects.

Performance X Design

SK380SR LC

Model		SK380SRLC
Bucket Capacity	m^3	1.2
Engine Power (ISO 14396)	kW/min^{-1}	210/1,900
Operating Weight	kg	36,600 - 38,200
Bucket Digging Force (Power Boost)	kN	189 (208)
Arm Crowding Force (Power Boost)	kN	126 (139)
Overall Length	mm	9,980
Overall Width	mm	3,190
Overall Height	mm	3,300

Performance X Design

SK230SR LC SK270SR LC

Model		SK230SRLC	SK270SRLC SK270SRNLC
Bucket Capacity	m^3	0.51 - 0.93	0.51 - 0.93
Engine Power (ISO 14396)	kW/min^{-1}	127/2,000	127/2,000
Operating Weight	kg	24,000 - 24,900	25,700 - 26,700/25,600 - 26,300*
Bucket Digging Force (Power Boost)	kN	120 (132)	143 (157)
Arm Crowding Force (Power Boost)	kN	88 (97)	102 (112)
Overall Length	mm	8,830	8,970
Overall Width	mm	2,990	3,190/2,990*
Overall Height	mm	3,160	3,180

*SK270SRNLC

SPECIAL ATTACHMENT

Long Reach Attachment

Long reach attachment is ideally suited to dredging, leveling, and other long reach operations.

Model		SK210LC	SK260LC
Bucket Capacity	m^3	0.45	0.4
Engine Power (ISO 14396)	kW/min^{-1}	127/2,000	155/2,200
Max. Digging Reach	mm	15,820	18,530
Operating Weight	kg	23,600	27,800
Overall Length	mm	12,690	14,520
Overall Width	mm	2,990	3,190

Two-Piece Boom

The two-piece boom provides a wide working range on a mid-size machine that can work in compact spaces.

Model		SK85MSR	SK140SRLC	SK180LC/ SK180N	SK210LC/ SK210NLC/SK210SNLC/ SK240SN	SK230SRLC
Max. Digging Reach	mm	8,010	8,800	8,840	10,070	9,985
Max. Digging Height	mm	8,610	9,540	10,050	11,230	11,330
Max. Digging Depth	mm	4,570	5,710	5,600	6,420	6,625
Model		**SK270SRLC/ SK270SRNLC**	**SK260LC/ SK260NLC**	**SK300LC/ SK300NLC**	**SK350LC/ SK350NLC**	**SK380SRLC**
Max. Digging Reach	mm	10,360	10,670	10,950	11,350	10,930
Max. Digging Height	mm	11,950	11,670	11,690	12,650	11,770
Max. Digging Depth	mm	6,990	6,810	6,900	7,200	6,990

Offset Boom

In its offset boom configuration, the SK75SR/140SRLC couples its tiny rear swing radius with an offset boom function that allows it to operate with even greater efficiently in extremely limited work areas.

Performance X Design

Model		SK75SR			SK140SRLC		
Operating weight	kg	8,000			16,700		
Offset Volume (L/R)	mm	1,030/1,340			1,170 / 1,180		
Offset		Max. Left	Center	Max. Right	Max. Left	Center	Max. Right
Max. Digging Reach	mm	6,390	6,750	6,050	7,180	7,600	7,160
Max. Digging Height	mm	7,400	7,720	7,110	7,750	8,090	7,740
Max. Digging Depth	mm	4,240	4,600	3,900	4,520	4,920	4,500

Straight Boom

A straight boom enhances an excavator's reach and precision, ideal for special projects.

Performance X Design

Model		SK260(N)LC	SK300(N)LC	SK350(N)LC
Max. Digging Reach	mm	10,520	11,060	11,490
Max. Digging Height	mm	12,070	12,520	13,010
Max. Digging Depth	mm	4,900	5,190	5,620

RECYCLING MACHINE

Car-Dismantling Machines

The specialized machine for dismantling end-of-life cars can efficiently take apart complex engine blocks, remove hard components and harnesses, and cut up, pick out and sort parts.

SK210D

Base Machine		SK210D CD
Nibbler Type		KVE720PR
Crusher Force (tooth - jaw tip)	kN	196
Cutting Force (center)	kN	539
Crusher Mouth Width	mm	720
Working Height of Clamp Arm	mm	1,770
Operating Weight	kg	27,500

Multi-Dismantling Machines

Fitted with a grapple with a wide jaw to secure hold of differently-shaped items. This one machine can be used to break up and separate auto engines, household appliances, industrial machinery and similar equipment.

SK140SRD

SK210D

Base Machine		SK140SRD MD	SK210D MD
Nibbler Type		KHE750PR-2	KVE720PR
Crusher Force (tooth - jaw tip)	kN	88.3	196
Cutting Force (center)	kN	255	539
Crusher Mouth Width	mm	745	720
Working Height of Clamp Arm	mm	1,780	1,990
Operating Weight	kg	20,500	30,500

DEMOLITION MACHINES

The Legacy of Kobelco:

•1st place in Ultra High Reach Demolition Excavators in Japan, the world's toughest demolition market.

•Kobelco innovative building demolition excavator technology is a result of experience using Kobelco's core technology and it's prior P&H and Yutani experience.

•1955 tie up with P&H who had developed crane and attachment technology.

•1977 introducing the World's first building demolition machines using excavator technology and static hydraulic fracturing nibbler.

• Kobelco continues to move boundaries by continuously improving its technologies and incorporating customer feedback.

Ultra Long Attachment Specifications

NEXT ADVANCE

SK1300D LC

Base Machine		SK1300DLC			
Attachment		4-piece Ultra long attachment specifications		3-piece Ultra long attachment specifications	
	mm	40m type	35m type	35m type	31m type
Max. Working Height (arm top)	mm	39,570	35,170	35,080	30,700
Max. Permissible Working Reach (arm top)	mm	18,900	16,400	21,400	18,800
Operating Weight (with top attachment)	kg	136,900	132,900	130,500	126,600
Max. Tool Weight	kg	4,300	5,200	5,050	6,100

Ultra High Reach Demolition Excavator

Featuring the newly developed NEXT ADVANCE 4-piece high reach demolition attachment, the SK1300DLC provides a wide variety of boom and arm combination options, for whatever the job requires.
The SK1300DLC is also designed for ease of transportability, featuring increased safety and minimised work preparation time.

Separate Boom Specifications

SK1300DLC

Base Machine		SK1300DLC		
Attachment		Separate boom specifications		
		With insert	For demolition of heights	For demolition of ground
Max. Working Height (arm top)	mm	23,560	21,020	21,020
Max. Working Depth (arm top)	mm	–	7,980	7,980
Max. Permissible Working Reach (arm top)	mm	15,100	15,100	14,200
Operating Weight (with top attachment)	kg	131,400	126,600	129,000
Max. Tool Weight	kg	9,600	9,600	12,000

DEMOLITION MACHINES

Ultra High Reach Demolition Excavator

With efficient working and safer operation, and a design that allows easy disassembly and transport, these attachments speed up all aspects of demolition work, for improved productivity and efficiency.

Ultra Long Attachment Specifications

NEXT

SK550DLC

Base Machine		SK350DLC	SK400DLC		SK550DLC	
Attachment		6.1m arm	6.1m arm	8.7m arm	6.1m arm	8.7m arm
		3.5m insert	3.5m insert	2.4m insert	3.5m insert	3.5m insert
Max. Working Height (arm top)	mm	20,990	21,110	24,740	24,990	27,530
Max.Permissible Working Reach (arm top)	mm	12,500	12,500	13,000	15,500	15,500
Operating Weight (with top attachment)	kg	45,000	49,600	50,100	63,500	64,000
Max. Tool Weight	kg	2,600	3,000	2,600	3,000	2,600

Separate Boom Specifications

Performance X Design

SK550D LC

Base Machine		SK350DLC	SK400DLC	SK550DLC
Attachment		Large diameter Jib cylinder	Large diameter Jib cylinder	Large diameter Jib cylinder
Max. Working Height (arm top)	mm	13,560	13,680	14,620
Max. Working Depth (arm top)	mm	6,320	6,210	6,260
Max.Permissible Working Reach (arm top)	mm	10,200	10,200	11,200
Operating Weight (with top attachment)	kg	45,400	49,700	65,500
Max. Tool Weight	kg	4,000	4,000	5,300

Compact Yet Tough Mini

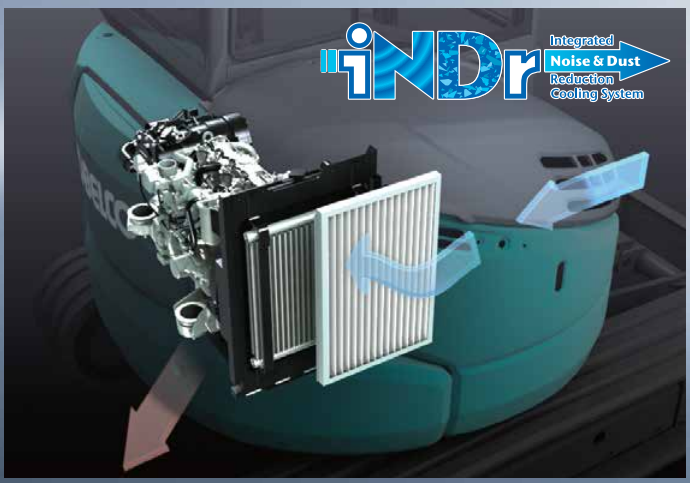
Mini excavators are the machines of choice for small jobs where space is limited. In addition to minimized tail swing radius, their excellent toughness and maneuverability have greatly broadened their usefulness. Now with upgraded hydraulic technology, KOBELCO has packed even more digging power into the SR series minis, for unprecedented performance in all types of operation. Innovation never stops: the new dozer blade shape makes dozing much more efficient. But that's not all. Our engineers have kept the environment in mind, too, ensuring that SR machines clear all the latest emissions standards. KOBELCO minis deliver more performance packed into less space than ever before.

New Cabin Design

Operator comfort and safety was key to the development of the new Kobelco mini excavator . The new machines follow Kobelco's Performance x Design concept, which includes a newly designed cabin interior, to make long operating hours more comfortable.

iNDr Cooling System: SK26SR, SK28SR, SK34SR, SK39SR, SK50SRX, SK58SRX

The highly airtight engine compartment and the offset duct contribute to noise reduction. The iNDr filter fitted in front of the cooling system ensures easy cleaning. The iNDr system on the SR Series mini excavators features air intake at the front of the machine and air exhaust underneath. It functions in the same way as the iNDr System on the SR series machines.



SK10SR

SK17SR

Performance Design

SK26SR

Performance Design

SK28SR

Performance Design

SK34SR

Performance Design

SK39SR

Performance Design

SK50SRX

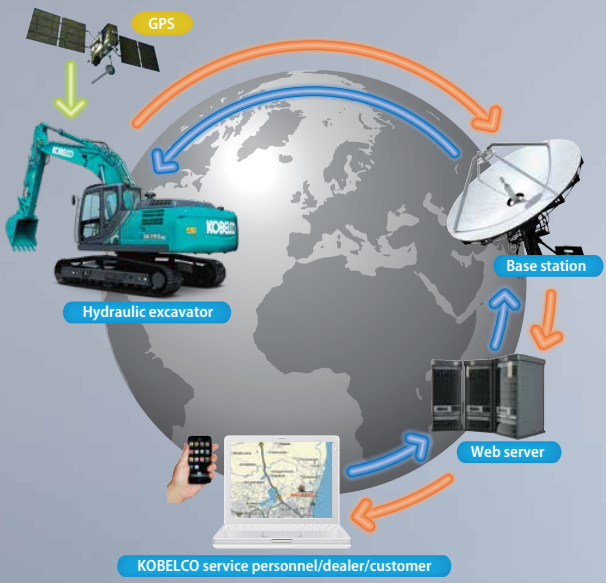
Performance Design

SK58SRX

Model		SK10SR	SK17SR	SK26SR	SK28SR	SK34SR	SK39SR	SK50SRX	SK58SRX
Bucket Capacity	m^3	0.022	0.044	0.08	0.08	0.09	0.11	0.14	0.16
Engine Power	kW/min^{-1}	6.1/2,000	10.4/2,200	18.9/2,400	18.9/2,400	18.9/2,400	18.9/2,400	33.6/2,400	33.6/2,400
Machine Mass	Cab kg	-	1,790	2,580	3,070	3,550	3,940	4,810	5,230
	Canopy kg	1,065	1,660	2,420	2,910	3,380	3,780	4,660	5,080
Bucket Digging Force	kN	10.8	15.2	20.8	24.7	32.2	32.2	35.6	35.6
Arm Crowding Force	kN	6.2	8.7	14.2	16.6	19.1	22.4	20.9	24.8
Overall Length	mm	2,880	3,490*/3,470	4,194	4,510	4,730	4,820	5,280	5,500
Overall Width	mm	750 /980	1,090 /1,320	1,550	1,550	1,550	1,700	1,960	1,960
Overall Height	mm	2,190	2,350	2,470*/2,440	2,550*/2,510	2,550*/2,510	2,550*/2,510	2,560	2,560

*Cab specs

KOMEXS is a web-based programme that enables you to monitor your Kobelco machine remotely.



Direct Access to Operational Status

Location Data

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

Operating Hours

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

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, traveling, and optional operations (N&B).

Graph of Machine Duty Cycles

Security System

Engine Start Alarm

The system can be set an alarm if the machine is operated outside designated hours.

Area Alarm

It can also be set so that an alarm if the machine is moved out of its designated area to another location.

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.

MEMO

Note: This catalogue 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 advance notice.

KOBELCO CONSTRUCTION MACHINERY EUROPE B.V.

Veluwezoom 15
1327 AE Almere
The Netherlands
www.kobelco-europe.com

Enquiries To:

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