

KOBELCO

Performance  Design

SK58SRX

■ Bucket capacity:

0.15 m³

■ Engine power:

33.6 kW / 2,400 min⁻¹

■ Operating weight:

5,300–5,510 kg



*GRAMMER is trademark of GRAMMER AG. registered in Germany and other countries.

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.

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.

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SK58SRX-7E_TUR_2E_2504



Complies with the EU Stage V
exhaust emission regulation

We Save You Fuel
Achieving a Low-Carbon Society

Performance Design

Mini excavator SK58SRX of 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.

Its quality, which is undiminished by the mini excavator's size, is one of KOBELCO's answers to the question of the mini excavator's future.

KOBELCO continues its quest for innovation.



UNFORGETTABLE COMFORT

Our pursuit of functional beauty and aesthetic sense produced a new interior design.



Air suspension seat

A proven GRAMMER* suspension seat is fitted as standard, offering a reclining mechanism, shock absorber, and excellent seating comfort.

Wrist rest

The enlarged wrist rests keep the operator's forearms in a stable position, reducing fatigue during operation, and allowing stable operation.



Air conditioner

Additional air vents provide a uniform air flow in front of and behind the operator and direct the air flow onto the window, improving the defroster's dehumidification function.



Switches with LED backlights

The switches and dials have LED backlights – they provide a bright, clear view in the dark and set a luxurious mood.



Smartphone holder/ USB/AUX port

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FUNCTIONAL WORK ENVIRONMENT

Realisation of the operator's convenience and comfort.



Colour monitor

A colour display with good readability comes as standard and shows various information such as operating history, maintenance cycle, and fuel and water temperature gauges. It can also be used to adjust the hydraulic oil flow to the attachments.



Energy Conservation Mode

The SK58SRX adapts ECO-mode which enables 26% less fuel consumption compared with H-mode.



Auto deceleration switch

Auto deceleration switch installed as standard. Easy-to-use switch control.



Engine start password

A password is required when starting the engine for greater security. The initial password must be set at our workshop.



Maintenance information



Operation history

Easy access

The shape of the access shutdown lever has been adapted and the door opens widely, offering excellent access.

Slide-open window

The window on the right side of the cab can be opened and closed both forwards and backwards to facilitate ventilation and make it easier to hear outside noise.



Lever angles allow for comfortable operations

The operator can move the levers horizontally without twisting their wrist, which reduces the fatigue caused by the operations.



Speaker



12V power outlet



Coat hook



Cup holder



LED door light



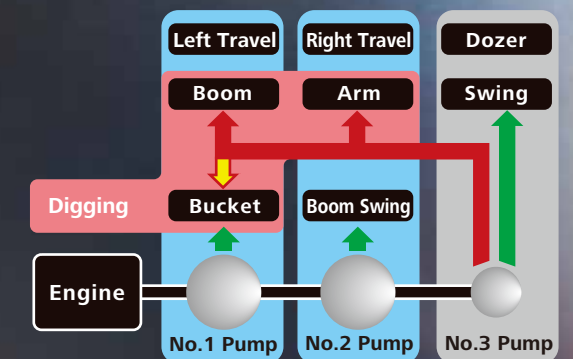


Smoother operation

The new hydraulic system improves levelling performance and makes levelling work easier than with conventional machines when heavier attachments are installed.

Integrated-Flow Pump System

The instant the machine begins to dig, extra output from the third pump (which otherwise powers the swing and dozer circuit) is directed to the arm circuit and boom circuit (raise) for added power. This ensures fast and smooth arm and boom raising operation even under heavy loads.



EXPERIENCING A COMPETENT PERFORMANCE

The new hydraulic system

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

By replacing the travel motor and swivel joint, the travel speed is increased.

>>> Travel speed

Faster by **12%**

(Compared to previous models with two speeds)

>>> Hill-climbing speed

Faster by **10%**

(Compared to previous models)

By replacing the spool, the power loss is reduced, resulting in higher digging and swing speeds.

>>> Digging cycle time

Shortened by **11%***

(Compared to previous models)

*The described performance is a value under specific usage conditions. This number will differ on the actual usage environment.



COMPACT, YET, BIG PERFORMANCE

Min. swing radius at boom swing



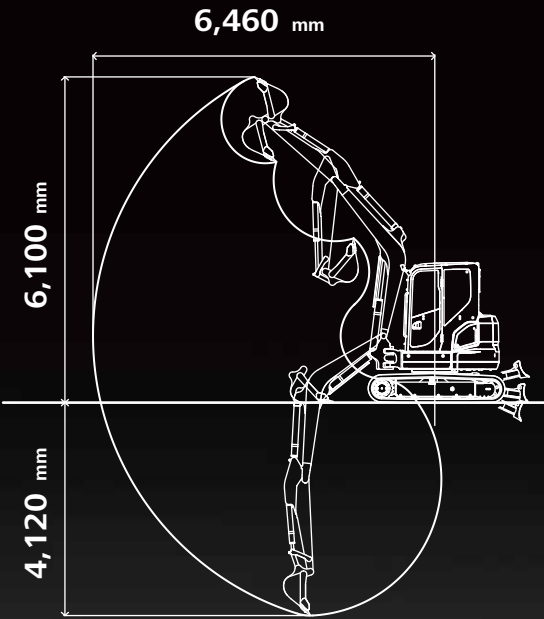
Short tail swing

The compact tail swing improves operating efficiency in limited space.

Tail overhang:

190 mm (290 mm)

Figure in () shows the value of with additional counterweight.



Figures above show the value for cab with long arm spec.

Wide working range

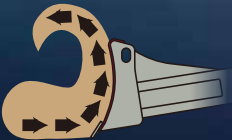
A larger boom and arm are provided as standard equipment to ensure a wide working range.

VERSATILITY



Dozer lever

The shape and angle of the dozer lever have been improved to make it easier to grip, and the first and second speed switches have been moved to the dozer lever to improve manoeuvrability when dozing. With the front dozer specification, functions can be switched on and off conveniently.



Dozer-blade shape

KOBELCO's unique blade design solves this problem by forming the earth into an arc that always falls forward. Because this prevents earth from falling behind the blade, only "one pass" is needed.

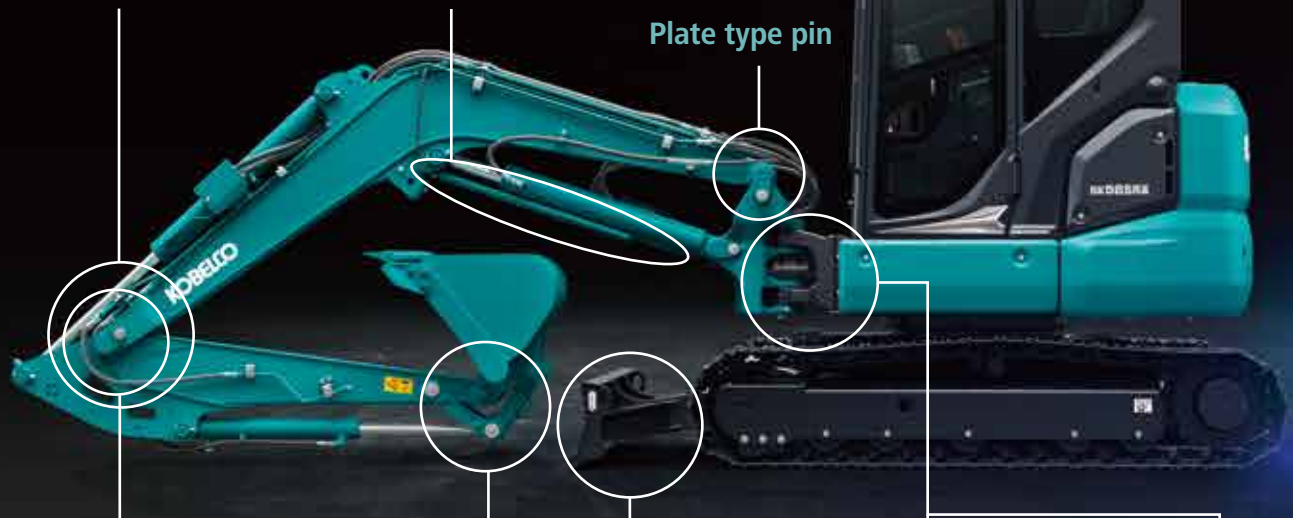
RELIABLE CONSTRUCTION

The boom, arm and swing bracket all have large cross-section segments for added attachment strength.

Forged boom top

Boom cylinder guard

Plate type pin



Bucket

Cast-iron idler link provides greater strength.

Bolt-tightened pins

Bolt-tightened pins firmly lock the boom to prevent the boom top from opening laterally.



Dozer

Box construction dozer supports provide greater strength.



Swing bracket

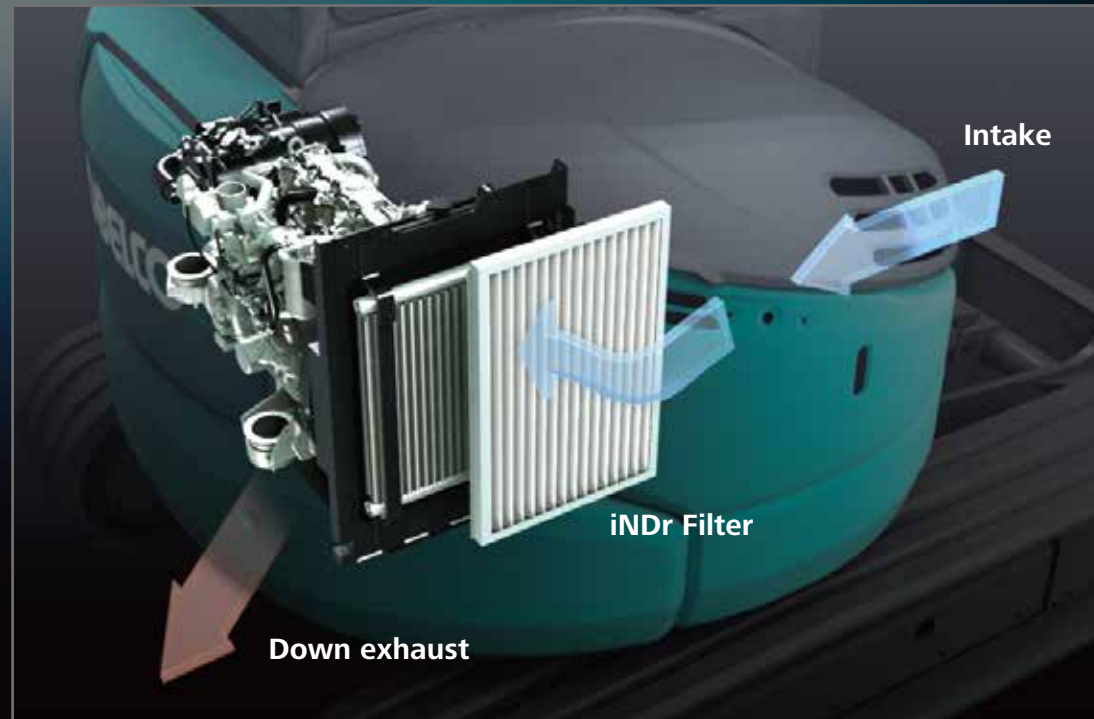
Large, thick cast-iron swing bracket/front bracket.



Hydraulic hosing

The hydraulic hosing is housed inside the swing bracket.

NON-STOP OPERATION BY iNDr



Ultimate low noise

KOBELCO's exclusive iNDr Cooling System delivers amazingly quiet operation.

Sound Power Level

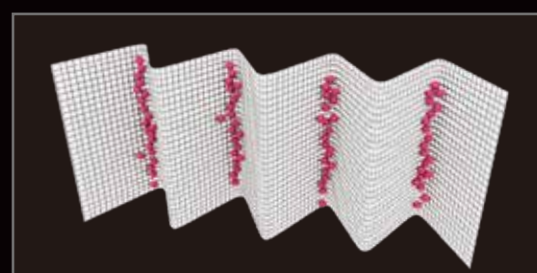
96 dB

The offset duct slows down exhaust from the muffler and engine cooling fan.

iNDr+E

The iNDr+E system on the SK50SRX/SK58SRX 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, but also directs the muffler exhaust underneath.

The exhaust is further slowed down and cooled through the offset duct and then discharged into the atmosphere.



The iNDr filter has a high-density mesh of 30 lines per inch to collect dust.

EASY MAINTENANCE

Easy daily maintenance that saves the trouble of inspection and cleaning.



Easy Access to Component Inside the Cab



Hour meter



Air conditioner filter for outer air intake



Air conditioner filter for internal air circulation



Instruction manual storage box

Easy Access to Cooling Unit



iNDr filter

Laid out for easy access to radiator and cooling system.

Easy Access to Engine Compartment

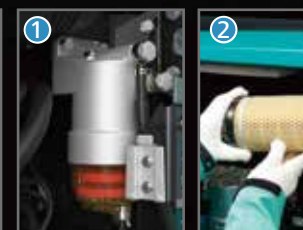


① Pre fuel filter with built-in water separator

The position of the pre fuel filter has been changed to make it more accessible.

② Air cleaner

③ High-grade fuel filter



OPERATOR SAFETY



Reliable cab/structure

The high-strength cab/meets ROPS, TOPS and OPG Level 1 (Top guard) standards for greater operator safety.



LED work light
Work light is mounted under the boom to protect from damage.



Safety valve for boom cylinder



Safety valve for arm cylinder



Rear wiper



Good visibility

The wiper mount has been moved to the upper right of the cab support and the skylight opening has been enlarged, improving visibility to the front and above.



Rear view mirror (Option)



Rear under mirror (Option)



Emergency escape hammer



Accumulator for emergency attachment lowering

An installed accumulator allows the attachment to be safely lowered to the ground using in-cab controls in the event of an unexpected engine shut-down and class leading smooth operation.

Standard and Optional Equipment

●=Std ○=Opt

Category	Description	SK58SRX-7E
ENGINE	Auto deceleration	●
	Accelerator dial	●
	Energy Conservation Mode	●
	Engine start password	●
	Foot control (for N&B piping)	●
HYDRAULIC SYSTEM	Hydraulic oil VG46	●
	N&B piping	●
CABIN	Front guard	○
	Top guard	○
	Air suspension seat	●
	Retractable seatbelt	●
	Air conditioner	●
	Multi-function colour display	●
	Cup holder	●
	Smartphone holder	●
	LED door light	●
	12V power outlet	●
	Coat hook	●
	Sun screen	●
	LED working light on boom	●
	LED working light on Cab	●
LIGHTS	LED working light on boom	●
	LED working light on Cab	●
WORKING EQUIPMENT	Standard boom (2.99 m)	●
	Standard arm (1.69 m)	●
	Long arm (1.92 m)	○
	Safety valve for Boom & Arm cylinder + bucket link with lifting hook + overload alarm	●
	0.15 m³ bucket	●
	0.08 m³ bucket	○
	0.14 m³ bucket	○
	0.17 m³ bucket	○
	Standard dozer	○
	Standard C/W	●
C/W	Additional C/W (+250 kg)	○
	400 mm rubber shoe	○
UNDERCARRIAGE	400 mm steel shoe	●
SAFETY	Wire mesh type front guard	○
	Travel alarm	○
	Rear view mirror (left)	○
	Rear under mirror (rear right)	○
	Rear wiper	●
	Emergency escape hammer	●
OTHERS	Arm & bucket cylinder rod guard	○
	Refuelling pump	○

Note: Figures in the above table show the value with standard arm specs.
The air conditioning system on this machine contains fluorinated greenhouse gas HFC-134a (GWP 1430). Quantity of gas 0.7 kg (CO2 equivalent 0.9 t).

Specifications



Engine

Model	KUBOTA V2403-CR-E5B-BHKC-1
Type	Four-stroke, liquid-cooled, direct injection diesel, complies with EU Stage V exhaust emission regulation
No. of cylinders	4
Bore and stroke	87 mm x 102.4 mm
Displacement	2.434 L
Rated power output	32.9 kW/2,400 min ⁻¹ (ISO 9249: with fan)
	33.6 kW/2,400 min ⁻¹ (ISO 14396: without fan)
Max. torque	156.3 N.m/1,500 min ⁻¹ (ISO 9249: with fan)
	157.4 N.m/1,500 min ⁻¹ (ISO 14396: without fan)



Hydraulic system

Pump	
Type	Two variable displacement axial piston pumps + one gear pump + pilot pump
Max. discharge flow	2 x 53.0 L/min
	1 x 33.8 L/min 1 x 10.8 L/min
Relief valve setting	
Boom, arm and bucket	23.0 MPa
Travel circuit	23.0 MPa
Swing circuit	20.1 MPa
Blade circuit	22.0 MPa
Control circuit	3.5 MPa
Pilot control circuit	Gear type
Main control valves	11-spool
Oil cooler	Air cooled type



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	8.5 min ⁻¹
Tail swing radius	1,170 mm
Swing torque	12.4 kN·m
Maximum swing gradient (Loaded)*	34 % {19 °}

*Value for the least favourable specification



Travel system

Travel motors	Two variable displacement piston motors
Travel brakes	Hydraulic brake
Parking brakes	Wet multiple plate
Travel shoes	38 each side
Travel speed	4.2/2.2 km/h (steel shoe)
Rated drawbar pull	58.5 kN (SAE J 1309)
Gradeability	58% {30°}



Cab & control

Cab	
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	
Foot control (for boom swing)	
Foot control (for N&B piping)	
Dozer lever	
Noise levels	
External	96 dB(A)
Operator	76 dB(A)



Boom, arm & bucket

bore x stroke

Boom cylinder	100 mm x 699 mm
Arm cylinder	90 mm x 716 mm
Bucket cylinder	75 mm x 546 mm
Boom swing cylinder	90 mm x 574 mm



Dozer blade

Dozer cylinder	90 mm x 200 mm
Dimension	1,960 mm (width) x 345 mm (height)
Working range	465 mm (up) x 335 mm (down)



Refilling capacities & lubrications

Fuel tank	75.0 L
Cooling system	9.8 L
Engine oil	7.8 L
Travel reduction gear	2 x 0.8 L
Hydraulic oil tank	27.9 L tank oil level
	59.0 L hydraulic system



Working ranges

Unit: m

Arm length	1.69 m	1.92 m
a- Max. digging reach	6.24	6.46
b- Max. digging reach at ground level	6.10	6.33
c- Max. digging depth	3.89	4.12
d- Max. digging height	5.95	6.10
e- Max. dumping clearance	4.37	4.52
f- Min. dumping clearance	1.59	1.36
g- Max. vertical wall digging depth	3.12	3.35
h- Min. swing radius at boom straight	2.25	2.27
h'-Min. swing radius at boom swing	1.85	1.87
i- Horizontal digging stroke at ground level	3.00	3.39
j- Digging depth for 2.4 m (8') flat bottom	3.47	3.73
k- Dozer blade (height/depth) (mm)	465/335	
Bucket capacity ISO heaped m ³	0.15	

Digging force (ISO 6015)

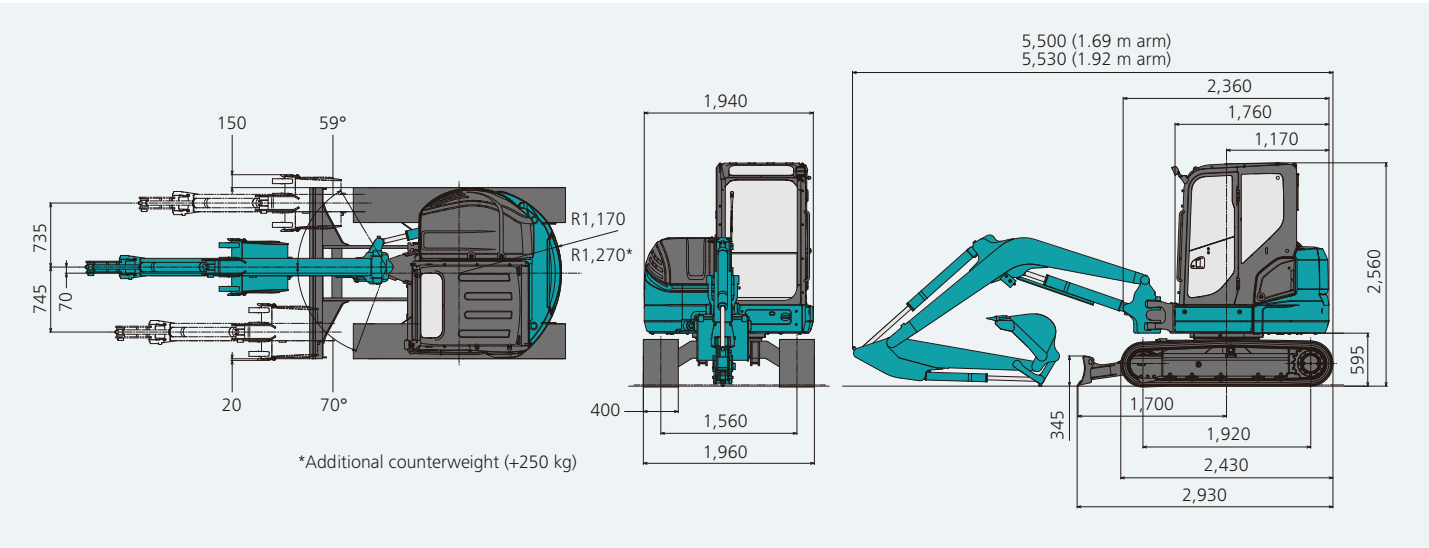
Unit: kN

Arm length	1.69 m	1.92 m
Bucket digging force	35.6	
Arm crowding force	24.8	22.5



Dimensions

Unit: mm

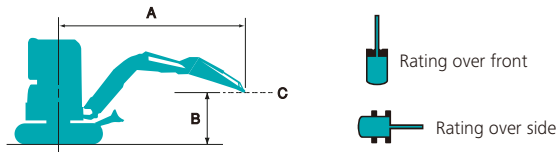


Operating weight & ground pressure

In standard trim, with standard boom, standard arm, and 0.15 m³ bucket

Shaped		Steel shoe	Rubber shoe
Shoe width	mm	400	
Overall width of crawler	mm	1,960	
Ground pressure	kPa	32.2	29.9
Operating weight	kg	5,510	5,300

Lift capacities



A: Reach from swing centreline to arm top
B: Arm top height above/below ground
C: Lift point
Bucket: Without
Dozer: Blade up
Relief valve setting: 23.0 MPa

SK58SRX		Arm: 1.69 m Standard counterweight Steel shoe shoe: 400 mm												
B	A	1.0 m		2.0 m		3.0 m		4.0 m		5.0 m		At max. reach		Radius
														
5.0m	kg											*1,040	*1,040	3.38 m
4.0m	kg							*930	*930			950	830	4.48 m
3.0m	kg							*1,000	990	790	690	770	680	5.07 m
2.0m	kg					*1,620	1,450	1,080	950	770	680	690	610	5.37 m
1.0m	kg					1,560	1,340	1,030	900	750	660	670	590	5.44 m
G.L.	kg			*1,260	*1,260	1,510	1,290	1,000	870	740	650	690	600	5.27 m
-1.0m	kg	*2,080	*2,080	*2,590	2,470	1,510	1,290	990	860			770	670	4.86 m
-2.0m	kg	*3,210	*3,210	3,120	2,520	1,540	1,310	1,020	880			990	860	4.09 m
-3.0m	kg			*1,580	*1,580							*1,190	*1,190	2.52 m

SK58SRX		Arm: 1.92 m Standard counterweight Steel shoe shoe: 400 mm												
A B		1.0 m		2.0 m		3.0 m		4.0 m		5.0 m		At max. reach		
														Radius
5.0m	kg											*940	*940	3.77 m
4.0m	kg							*820	*820			860	760	4.75 m
3.0m	kg							*900	*900	790	700	710	630	5.31 m
2.0m	kg					*1,430	*1,430	1,080	950	770	680	640	570	5.60 m
1.0m	kg					1,570	1,340	1,030	900	750	650	620	550	5.66 m
G.L.	kg			*1,300	*1,300	1,500	1,280	990	860	730	640	640	560	5.50 m
-1.0m	kg	*1,820	*1,820	*2,360	*2,360	1,490	1,260	980	850	720	630	700	620	5.11 m
-2.0m	kg	*2,790	*2,790	3,060	2,470	1,510	1,280	990	860			870	760	4.40 m
-3.0m	kg			*2,180	*2,180	*1,280	*1,280					*1,220	*1,220	3.07 m

SK58SRX		Arm: 1.69 m Additional counterweight (+250 kg) Steel shoe shoe: 400 mm													
A		1.0 m		2.0 m		3.0 m		4.0 m		5.0 m		At max. reach			
														Radius	
B	5.0m	kg										*1,040	*1,040	3.38 m	
	4.0m	kg						*930	*930			*1,000	940	4.48 m	
	3.0m	kg						*1,000	*1,000	890	790	870	770	5.07 m	
	2.0m	kg					*1,620	*1,620	1,220	1,070	870	770	780	690	5.37 m
	1.0m	kg					1,760	1,510	1,170	1,020	850	750	760	670	5.44 m
	G.L.	kg			*1,260	*1,260	1,710	1,460	1,140	990	840	740	780	690	5.27 m
	-1.0m	kg	*2,080	*2,080	*2,590	*2,590	1,710	1,460	1,130	980			870	770	4.86 m
-2.0m	kg	*3,210	*3,210	*3,350	2,840	1,730	1,480	1,150	1,000			1,120	980	4.09 m	
-3.0m	kg			*1,580	*1,580							*1,190	*1,190	2.52 m	

SK58SRX		Arm: 1.92 m Additional counterweight (+250 kg) Steel shoe shoe: 400 mm												
A B		1.0 m		2.0 m		3.0 m		4.0 m		5.0 m		At max. reach		
														Radius
5.0m	kg											*940	*940	3.77 m
4.0m	kg							*820	*820			*930	850	4.75 m
3.0m	kg							*900	*900	890	790	800	710	5.31 m
2.0m	kg					*1,430	*1,430	*1,130	1,070	870	770	730	650	5.60 m
1.0m	kg					1,770	1,510	1,160	1,020	850	740	710	620	5.66 m
G.L.	kg			*1,300	*1,300	1,700	1,450	1,120	980	830	730	730	640	5.50 m
-1.0m	kg	*1,820	*1,820	*2,360	*2,360	1,680	1,440	1,110	970	820	720	800	700	5.11 m
-2.0m	kg	*2,790	*2,790	3,450	2,790	1,700	1,460	1,120	980			990	870	4.40 m
-3.0m	kg			*2,180	*2,180	*1,280	*1,280					*1,220	*1,220	3.07 m

1. 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.
2. 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.
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.
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. Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.

MEMO

