SK30SR-7/SK35SR-7





KOBELO

SK35SR

1 MIN

minder maintail

Bucket capacity: SK30SR 0.09 m³ SK35SR 0.11 m³

Engine power:
18.9 kW / 2,400 min⁻¹

■ Operating weight:
SK30SR 3,410-3,690 kg
SK35SR 3,810-4,080 kg



SK3OSR SK35SR

Performance

With the release of the SK30SR and SK35SR, KOBELCO has completely harmonised the values of PERFORMANCE and DESIGN. These mini excavators deliver great efficiency and productivity with increased power, along with uncompromising operator comfort and machine operability.

Design

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



UNFORGETTABLE COMFORT

True ergonomic functionality combined with modern design has resulted in a interior design that is sleek and comfortable.



Suspension seat

A proven Grammer* suspension seat is fitted as standard equipment, offering a reclining mechanism, excellent shock absorption and superior ride comfort. *GRAMMER is trademark of GRAMMER AG. registered in Germany and other countries.



Air conditioner

Additional air vents are placed around the cabin for optimal air flow around operator. In addition, the defrosters placed in the front, right and back have also been improved to ensure visibility when the air conditioner is in use.

Wrist rests

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



KOBEICO



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.



Smartphone holder/ USB/AUX port

FUNCTIONAL WORK ENVIRONMENT

Realisation of the operator's convenience and comfort.



Colour monitor

The colour display is easy to read and 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

There are 2 working modes: one for maximum power, and ECO-mode for increased fuel economy.



Auto deceleration

Auto deceleration saves fuel and lowers engine noise by lowering engine speed to idle.



Hydraulic flow adjustment Rotation or N&B piping flow can be selected from six preset types, or adjusted arbitrarily.



Maintenance information



Engine start password

A password is required when starting the engine for greater security.



Operation history



Easy-access cab

The hinged door is used to provide easy cabin access. Furthermore, the flip-up left console with integrated pilot control lock lever allows for easy entry and exit from the cab.



Ergonomic lever angles Operators can move levers horizontally without twisting their wrists, reducing operator fatigue.

Proportional hand control for rotation & N&B piping (Option)

Precise proportional controls are integrated into the joystick for ease of operation.



Slide-open window

The right side window can slide open from the front or the back for increased ventilation and to hear ground workers when required.





Coat hook



Cup holder



Utility box



LED door light



Front under glass holder







Boom swing control with HCP



FM/AM radio&AUX& Bluetooth®& hands-free telephone

6

THE NEXT LEVEL OF PERFORMANCE

SK355R

By replacing the bucket cylinder, the bucket digging force is increased.

>>>> Bucket digging force

Raised by 16% (Compared to previous models)

The engine output is increased compared to previous models, providing extra power.

>>>> Engine output

18.9 kw / 2,400 min⁻¹

The newly adopted ECO-mode saves even more energy.

>>> Fuel consumption



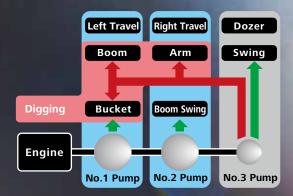
Smoother operation

2858

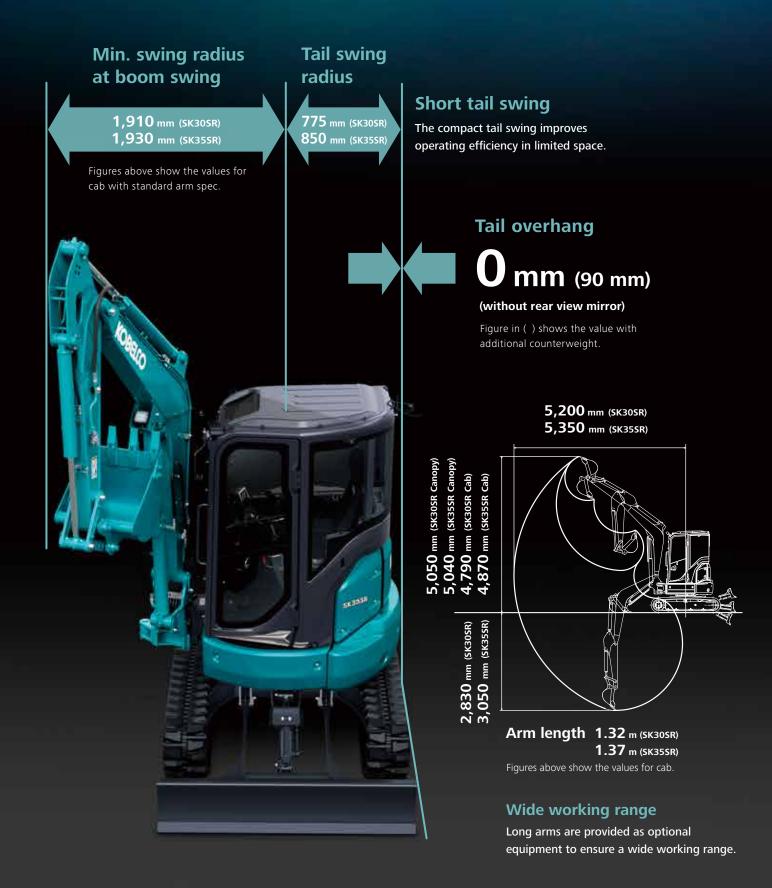
The new hydraulic system improves levelling performance.

Integrated-Flow Pump System

During the digging operation, depending upon job condition, the machine provides the additional flow to the boom, arm or bucket circuit, from No.3 pump (swing and dozer pump), to increase available input power to those functions.



COMPACT SIZE, BIG PERFORMANCE



VERSATILE



Hydraulic piping for quick hitch

For increased efficiency, various attachments, such as the bucket, can be easily mounted and dismounted without leaving the cab.



Dozer lever

The new ergonomic dozer lever has a 1st/2nd travel speed select switch integrated into the handle for easier dozer functions.





Angle dozer (Option)

Built with the same durability as the standard blade, this angle option provides 25 to 25 degrees of left and right angle movement for clearing, grading and back-filling. The angle dozer gives you better control for following changing terrain.

Dozer-blade shape

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

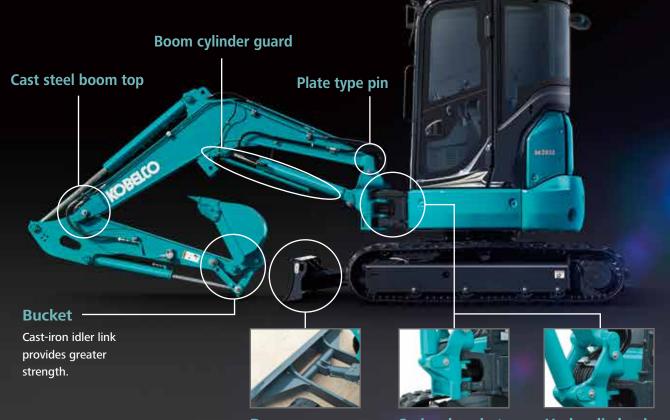


Floating dozer (Option)

Dozer float is optional to assist in easier leveling work. Floating function can be activated by the switch which is integrated into the dozer control lever.

LEGENDARY RELIABILITY

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

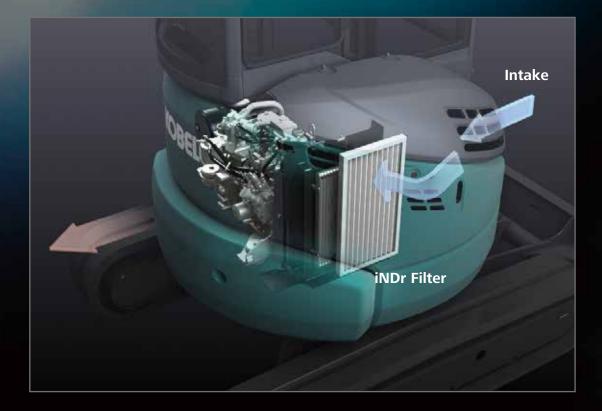


Dozer Reinforced dozer supports provide greater strength.

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

Hydraulic hosing The hydraulic hosing is housed inside the swing bracket for protection.

NON-STOP OPERATION BY INDr

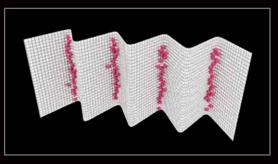


iNDr

A high-density mesh filter blocks dust and debris from entering the cooling package during air intake. This prevents the cooling device and the 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.







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

EASY MAINTENANCE

Easy daily maintenance to reduce machine downtime.





Hour meter



Cab fresh air intake filter



Cab re-circulation air filter





Operator manual storage pockets

Easy Access to Cooling Unit



iNDr filter Laid out for easy access to radiator and cooling system.

Easy Access to Engine Compartment









Pre fuel filter with built-in water separator
Air cleaner
High-grade fuel filter

OPERATOR SAFETY





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



LED work light Changed from halogen light to LED light for more brightness.



Safety valve for boom cylinder (Option)



Safety valve for arm cylinder (Option)



Improved 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

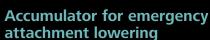


Rear under mirror



Hammer for emergency exit





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 with class leading smooth operation.

SKEOSR SKEESR

Standard and Optional Equipment

●=Std ○=Opt -= N/A

Category	Description	SK30SR-7	SK35SR-7
NGINE	YANMAR 3TNV88 (Stage V compliant)		•
	Alternator 12 V /40 A	•	•
	Starter motor 12 V/1.7 kW	•	
	Battery 1x 12 V (80 Ah)	•	•
	Fan suction type cooling system	•	•
	iNDr system		ě
	Auto deceleration function		
	Accelerator dial		•
	ECO-mode	•	•
	Engine start password	•	•
IYDRAULIC SYSTEM	Integrated-Flow Pump System	•	•
	PHC (for N&B piping) with hydraulic flow adjustment	•	•
	PHC (for Rotation &N&B piping) with hydraulic flow adjustment	0	0
	Hydraulic oil VG32	0	0
	Hydraulic oil VG46	0	0
IPING	N&B piping		•
	Rotation &N&B piping	0	0
	QH piping	•	•
ABIN	Suspension seat (Canopy: PVC / Cab: fabric)		
ADIN	Headrest*		
	Retractable seatbelt		•
	Multi-function color display	•	•
	LED door light*	•	•
	Air-conditioner*	•	•
	FM/AM radio (AUX & Bluetooth®)*		
	Cup holder	•	•
	Coat hook*		•
	Smart phone holder*	•	•
	USB/AUX port*		•
	12V power outlet		
	Harness for cab beacon light*		•
GHTS	LED work lights ; 1 on boom, 2 on cab top front / 1 on canopy front	•	•
ORKING EQUIPMENT	Standard boom (2.36 m)	•	
	Standard boom (2.47 m)		•
	Standard arm (1.32 m)		—
	Standard arm (1.37 m)	-	•
	Long arm (1.62 m)	0	
	Long arm (1.67 m)	_	0
	0.05 m ³ (350mm) bucket	0	Õ
	0.07 m ³ (450 mm) bucket	0	0
	0.08 m ³ (500 mm) bucket	0	0
			-
	0.10 m ³ (600 mm) bucket	0	0
	0.12 m ³ (700 mm) bucket	0	0
DUNTER WEIGHT	Standard C/W		•
	Additional C/W (+250 kg)	0	0
NDERCARRIAGE	300mm rubber shoe	•	•
	300mm steel shoe	0	0
	Dozer blade (1,550 mm)		
	Dozer blade (1,700 mm)		•
	Floating dozer	0	0
	Angle dozer	0	0
	Cab (ROPS(ISO 3471 : 2008) / TOPS(ISO 12117 : 1997) / OPG(ISO 10262 : 1998)		
	Cab (ROPS(ISO 3471 : 2008) / TOPS(ISO 12117 : 1997) / OPG(ISO 10262 : 1998) Canopy (ROPS(ISO 3471 : 2008) / TOPS(ISO 12117 : 1997) / OPG(ISO 10262 : 1998)		
AFETY EQUIPMENT		0	0
AFETY EQUIPMENT		~	
AFETY EQUIPMENT	Front guard	0	0
AFETY EQUIPMENT	Front guard Top guard*	0	0
AFETY EQUIPMENT	Front guard		
AFETY EQUIPMENT	Front guard Top guard*		
AFETY EQUIPMENT	Front guard Top guard* Rear view mirror (left) Rear under mirror (right rear)		
	Front guard Top guard* Rear view mirror (left) Rear under mirror (right rear) Travel alarm		
AFETY EQUIPMENT THERS	Front guard Top guard* Rear view mirror (left) Rear under mirror (right rear)	0 0 0 0 0	

* Only for Cab

Note: Bluetooth® is a registered trademark of the Bluetooth SIG Inc.

Specifications

Engine

Model	YANMAR 3TNV88			
Туре	Four-cycle, water-cooled, direct injection diesel engine, complies with EU Stage V exhaust emission regulation			
No. of cylinders	3			
Bore and stroke	88 mm × 90 mm			
Displacement	1,642 ml			
Dated noticer output	17.9 kW / 2,400min ⁻¹ (ISO 9249 : with fan)			
Rated power output	18.9 kW / 2,400 min ⁻¹ (ISO 14396: without fan)			
Max. torque	88.0 N•m / 1,440 min ⁻¹ (ISO 14396: without fan)			

🔁 Hydraulic system

Pump					
Туре	Two variable displacement axial piston pumps + one gear pump + pilot pump				
Max. discharge flow	2 x 38.4 L/min, 1 x 19.2 L/min, 1 x 10.8 L/min				
Relief valve setting					
Boom, arm and bucket	23.0 MPa {235 kgf/cm ² }				
Travel circuit	23.0 MPa {235 kgf/cm ² }				
Swing circuit	20.0 MPa {204 kgf/cm ² }				
Blade circuit	23.0 MPa {235 kgf/cm ² }				
Control circuit	3.5 MPa {36 kgf/cm ² }				
Pilot control pump	Gear type				
Main control valve	10 -Spool valve				
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	8.2 min ⁻¹				
Swing torque	7.0 kN•m				



Dozer cylinder

90 mm x 180 mm

Travel system

Travel motors		Two Variable displacement piston motor			
Travel brakes		Hydraulic brake			
Parking brakes		Wet multiple plate			
Travel shoes		88 each side			
		4.4/2.5 km/h (rubber shoe)			
Travel speed		4.3/2.4 km/h (steel shoe)			
Drawbar	SK30SR	38.1 kN (Cab) / 38.2 kN (Canopy)			
pulling force	SK35SR	37.9 kN (Cab) / 38.0 kN (Canopy)			
Gradeability		58 % {30 °}			

🖪 Cab & control

Cab
All-weather, 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

Boom, arm & bucket

bore × st					
Model	SK 3	OSR	SK35SR		
woder	Cab	Canopy	Cab	Canopy	
Boom cylinders	80 mm x 574 mm	80 mm × 592 mm	85 mm × 582 mm	85 mm × 588 mm	
Arm cylinder	75 mm ×	627 mm	80 mm ×	677 mm	
Bucket cylinder	70 mm × 507 mm				
Swing cylinder	80 mm × 477 mm				

Refilling capacities & lubrications

Fuel tank	42 L
Cooling system	3.8 L
Engine oil	6.7 L
Travel reduction gear	2 x 0.6 L
Lludraulic ail tank	20.4 L tank oil level
Hydraulic oil tank	44.8 L hydraulic system

Operating weight & ground pressure

In standard trim, with standard boom, standard arm, and 0.09 $\rm m^3$ (80 kg) - 0.11 $\rm m^3$ (80 kg) bucket

Model			SK3	K30SR			SK35SR			
		Ca	ab	Car	Canopy		Cab		Canopy	
Shaped		Steel shoe	Rubber shoe	Steel shoe	Rubber shoe	Steel shoe	Rubber shoe	Steel shoe	Rubber shoe	
Shoe width	mm	300								
Overall width of crawler	mm		1,5	50		1,700				
Ground pressure	kPa	32.4	31.4	31	30	35.8	34.8	34.4	33.4	
Operating weight	kg	3,690	3,690 3,570 3,540 3,410				3,960	3,920	3,810	
Machine Mass	kg	3,620	3,500	3,460	3,340	4,000	3,890	3,850	3,730	

bore × stroke

* Regarding bucket capacity, 0.09 m³ in this catalogue is equivalent to 0.08 m³ in ISO 07451 and 0.11 m³ in this catalogue is equivalent to 0.10 m³ in ISO 07451

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Working ranges

				Unit: mm	
Model	SK3	OSR	SK35SR		
Model	Cab	Canopy	Cab	Canopy	
Arm length	1.32 m		1.3	7 m	
a-Max. digging reach	5,2	200	5,3	350	
b-Max. digging reach at ground level	5,0	040	5,2	200	
c- Max. digging depth	2,830	2,780	3,050	2,970	
d-Max. digging height	4,790	5,050	4,870	5,040	
e-Max. dumping clearance	3,410	3,640	3,490	3,650	
f- Min. dumping clearance	1,290	1,430	1,310	1,400	
g-Max. vertical wall digging depth	2,3	370	2,4	,470	
h-Min. swing radius at boom straight	2,300	2,190	2,320	2,180	
h'-Min. swing radius at boom swing	1,910	1,810	1,930	1,810	
i- Horizontal digging stroke at ground level	el 2,230 2		2,4	100	
j- Digging depth for 2.4 m (8') flat bottom	2,360	2,310	2,580	2,510	
k-Dozer blade (height/depth) (mm)		470	/390		

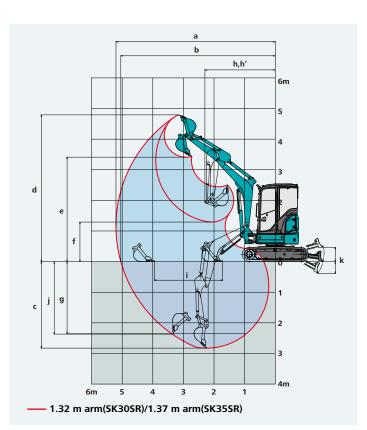
*Figures in the above tables show the value with 0.09–0.11 m³ bucket. Regarding bucket capacity, 0.09 m³ in this catalogue is equivalent to 0.08 m³ in ISO07451 and 0.11 m³ in this catalogue is equivalent to 0.10 m³ in ISO07451.

Digging force (ISO 6015)

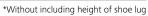
Digging force (ISO 6015)	Unit: kN			
Model	SK30SR	SK35SR		
Arm length	1.32 m	1.37 m		
Bucket digging force	32.2			
Arm crowding force	19.1	22.4		

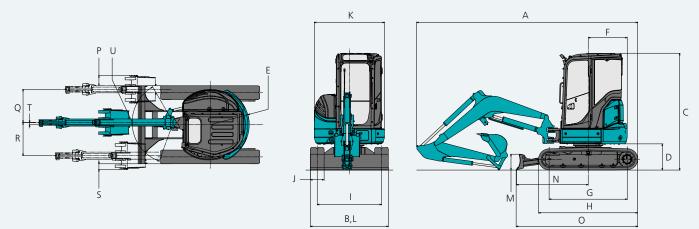
Dimensions

Model		SK30SR		SK35SR		
	odel	Cab	Canopy	Cab	Canopy	
Arm length		1.32 m		1.37 m		
А	Overall length	4,730		4,820		
В	Overall width	1,5	50	1,7	700	
С	Overall height (to top of cab/canopy)	2,5	50	2,550		
D	Ground clearance of rear end*	575		570		
Е	E Tail swing radius		775		850	
F	Distance from center of swing to rear end	775		850		
G	Tumbler distance	1,700		1,700		
н	Overall length of crawler	2,160		2,160		
Т	Track gauge	1,250		1,400		
J	Shoe width	300		3	00	
К	Overall width of upper structure	1.530		1,5	530	



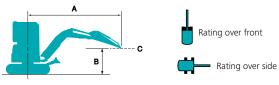
			Unit: mm
L	Blade width	1,550	1,700
М	Blade height	345	345
N	Distance from dozer top to center of upper structure	1,560	1,560
0	Basic machine length	2,650	2,650
Ρ	Digging distance outside crawler shoe (right)	250	225
Q	Boom offset volume (right)	725	725
R	Boom offset volume (left)	720	720
S	Digging distance outside crawler shoe (left)	145	120
т	Offset volume of boom center	50	50
U	Boom swing angle (Left/Right)	70°/60°	70°/60°





* With additional counterweight.

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

SK30SR Can	SK30SR Canopy		Arm: 1.32 m Standard counterweight Rubber shoe: 300 mm												
	A		1.0m		2.0m		3.0m		Dm	At max. reach					
в		L	#	L	#	ł	.	L	.	L	#	Radius			
4.0m	kg					770	600			730	570	3.08m			
3.0m	kg					*750	610			470	370	3.98m			
2.0m	kg					730	570	460	360	390	300	4.39m			
1.0m	kg					670	510	430	340	360	280	4.49m			
G.L.	kg			1,230	890	640	480	420	320	380	290	4.30m			
-1.0m	kg	*2,050	*2,050	1,250	900	640	480			460	360	3.77m			
-2.0m	kg			*970	960					*640	*640	2.60m			

SK30SR Cab		Arm: 1.32 n	Arm: 1.32 m Standard counterweight Rubber shoe: 300 mm												
	A		1.0m		2.0m		3.0m		Dm	At max. reach					
		ŀ	—	L	#	ł	— —	L	#	L	#	Radius			
4.0m	kg					810	640			770	610	3.08m			
3.0m	kg									500	390	3.98m			
2.0m	kg					770	600	490	380	420	320	4.39m			
1.0m	kg					720	550	470	360	390	300	4.49m			
G.L.	kg			1,320	950	680	520	450	350	410	320	4.30m			
-1.0m	kg	*2,050	*2,050	1,340	970	690	520			500	380	3.77m			
-2.0m	kg			*970	*970					*640	*640	2.60m			

SK30SR Canopy Arm: 1.32 m Additional counterweight (+250 kg) Rubber shoe: 300 mm												
	А	1.(1.0m 2.0m		Dm	3.0m		4.0m		At max. reach		
В		ł	#	L	— —	ł	— —	L	#	L	#	Radius
4.0m	kg					*820	730			*840	690	3.08m
3.0m	kg					*750	730			570	460	3.98m
2.0m	kg					880	690	560	440	480	380	4.39m
1.0m	kg					820	640	540	420	450	360	4.49m
G.L.	kg			1,510	1,110	790	610	520	410	470	370	4.30m
-1.0m	kg	*2,050	*2,050	1,530	1,120	790	610			570	450	3.77m
-2.0m	kg			*970	*970					*640	*640	2.61m

SK30SR Ca	b	Arm: 1.32 n	Arm: 1.32 m Additional counterweight (+250 kg) Rubber shoe: 300 mm												
	А	1.0m		2.0m		3.0m		4.0	Dm	At max. reach					
в		ŀ	4 -		#	L	#	ł		L	#	Radius			
4.0m	kg					*820	760			*840	730	3.08m			
3.0m	kg									640	480	3.98m			
2.0m	kg					*970	730	630	470	540	400	4.39m			
1.0m	kg					920	670	610	450	510	380	4.49m			
G.L.	kg			*1,540	1,170	890	640	590	440	540	400	4.30m			
-1.0m	kg	*2,050	*2,050	1,720	1,190	890	640			650	480	3.77m			
-2.0m	kg			*970	*970					*640	*640	2.61m			

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SK35SR Cand	ру	Arm: 1.37 m	Arm: 1.37 m Standard counterweight Rubber shoe: 300 mm													
	A		1.0m		2.0m		3.0m)m		At max. reach	ı				
в		ł	.	L	#	L	.	L	#	L	#	Radius				
4.0m	kg									790	740	3.32m				
3.0m	kg							580	550	540	510	4.15m				
2.0m	kg					890	830	570	530	460	430	4.54m				
1.0m	kg					820	760	540	510	430	410	4.64m				
G.L.	kg			1,520	1,360	790	730	520	490	450	420	4.46m				
-1.0m	kg	*2,290	*2,290	1,540	1,380	790	730			540	500	3.96m				
-2.0m	kg			*1,540	1,440					870	810	2.90m				

SK35SR Ca	b	Arm: 1.37 n	Arm: 1.37 m Standard counterweight Rubber shoe: 300 mm												
	А	1.(Om	2.0	Dm	3.0)m	4.0	Dm		At max. reach	ı			
в		L	—	ł	#	L	#	L	#	L	#	Radius			
4.0m	kg									*830	770	3.32m			
3.0m	kg							610	570	570	530	4.15m			
2.0m	kg					930	860	590	560	480	450	4.54m			
1.0m	kg					870	800	570	530	460	430	4.64m			
G.L.	kg			1,600	1,430	830	770	550	510	480	450	4.46m			
-1.0m	kg	*2,290	*2,290	1,620	1,450	830	770			570	530	3.96m			
-2.0m	kg			*1,540	1,500					*890	840	2.90m			

SK35SR Cano	ру	Arm: 1.37 m	Arm: 1.37 m Additional counterweight (+250 kg) Rubber shoe: 300 mm												
\sim	A		Dm	2.0m		3.0m		4.0	Dm	At max. reach					
в		ł	#	L	#	ł	.	L	.	L	#	Radius			
4.0m	kg									*830	*830	3.32m			
3.0m	kg							680	640	640	600	4.15m			
2.0m	kg					*1,030	960	670	620	550	510	4.54m			
1.0m	kg					970	900	640	600	520	490	4.64m			
G.L.	kg			*1,650	1,610	940	870	630	580	540	510	4.46m			
-1.0m	kg	*2,290	*2,290	1,820	1,630	940	870			640	600	3.96m			
-2.0m	kg			*1,540	*1,540					*890	*890	2.90m			

SK35SR Ca	b	Arm: 1.37 n	Arm: 1.37 m Additional counterweight (+250 kg) Rubber shoe: 300 mm												
	Α	1.0m		2.0	Dm	3.0m		4.0)m		At max. reach	ı			
в		ł	—	ł	—	ł	 -	L	#	L	#	Radius			
4.0m	kg									*830	*830	3.32m			
3.0m	kg							710	660	670	620	4.15m			
2.0m	kg					*1,030	1,000	700	650	570	530	4.54m			
1.0m	kg					1,010	940	670	620	540	510	4.64m			
G.L.	kg			*1,650	*1,650	980	900	650	610	570	530	4.46m			
-1.0m	kg	*2,290	*2,290	1,890	1,690	980	900			670	620	3.96m			
-2.0m	kg			*1,540	*1,540					*890	*890	2.90m			

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.

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. Copyright by **KOBELCO CONSTRUCTION MACHINERY CO., LTD.** No part of this catalogue may be reproduced in any manner without notice.

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