KOBELCO

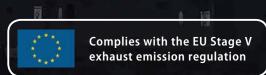
Performance Design

SK 85MSR

KOBEL

- Bucket capacity:
- 0.11 0.35 m³
- Engine power:
- 53.7 kW/2,100 min⁻¹
- Operating weight:
- 8,430 9,670 kg

KOBELCO



SKOUNSR

Built for Perfectionists





SK85MSR 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.

In pursuit of unique and matchless machines which are unforgettable once you use them, KOBELCO will continue to rise to meet every challenge.

THE ULTIMATE IN SIMPLE AND ELEGANT DESIGN

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

Jog dial

This jog dial integrates multiple functions to realise simple operations. Even with gloved hands, the operator can set various machine conditions without stress.

LED backlights

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





UNFORGETTABLE COMFORT

Air suspension seat

A GRAMMER* seat is installed as standard equipment, which achieves excellent shock absorption and superior ride comfort.
*GRAMMER is trademark of GRAMMER AG. registered in Germany and other countries.

Air conditioner blowing from the rear

Air is blown against the operator's waist and the back of their head, offering more comfortable operation.

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.



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.

Parallel wipers secure a wide field of view



KOBELCO





SAFETY ON FULL DISPLAY

Standard 3 Sides Safety Camera System

Our high-resolution, large display shows right, left and rear side cameras together. Multiple display allows the operator to customize viewing needs to enhance operator awareness and jobsite safety.











Large 10-Inch Color Monitor

The easy-to-operate menu screen and recognizable icons assist the operator to select the most important information needed to ensure jobsite safety and machine control.



Dial in the Right Information

Simply turn the jog dial to the right or left to select an operational feature, then press the dial to confirm selection.







EXPERIENCING A COMPETENT PERFORMANCE

Our high-power engine complies with STAGE V emission regulations

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%

(Compared to the SK85MSR-3E model)

>>> Digging cycle time Shortened by 15%

(Compared to the SK85MSR-3E model)

Loaded boom lifting speed

Increased by 38%

(Compared to the SK85MSR-3E model)

Arm digging speed

Increased by 37%

(Compared to the SK85MSR-3E model)





Attachment mode

The flow-rate modes of the bucket, breaker, nibbler, and rotating grapple are set before delivery, which allows you to start operating immediately. Mode settings for other attachments, such as the tilt rotator, can easily be added or changed.



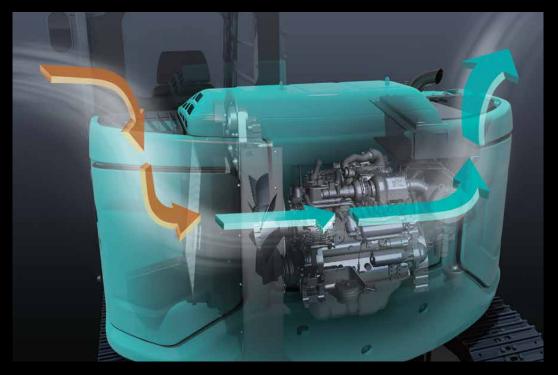


TYPES OF ATTACHMENT MODE

	TYPE	MODE	OBJECTIVE OF MODE		
	\mathcal{L}_{c}	Bucket	Balance in operations such as levelling can be adjusted.		
CURRENT MODE		Breaker	Arm regeneration function considering front attachment weight is provided beforehand.		
	A)	Nibbler (crusher)	Change of arm speed due to nibbler (crusher) opening/closing is reduced.		

	TYPE	MODE	OBJECTIVE OF MODE		
NEWLY ADDED MODE	\rightarrow	Rotating grapple	Swing operation on slope while raising attachment/ equipment becomes possible. Boom 2-speed systems is controlled by proportional valve.		
	P	Processor	N&B flow rate is set to maximum specifically. Regeneration of arm in operation while using front attachment is changed.		
		Thumb bucket	Swing operation while raising attachment/equipment and opening thumb bucket becomes possible.		
	de	Tilt rotator	When combined operation with arm is performed, hydraulic interference is prevented.		
		Spare mode for custom setting	This mode should be customized at each field. This is provided for front attachment other than those described above.		

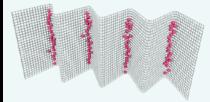
NON-STOP OPERATION BY INDr





iNDr Filter

A high-density mesh filter blocks dust intruding during air intake. This prevents the cooling device and the air cleaner from clogging with dust and maintains their performances. The ridges of the corrugated filter allow the air to pass through, and the grooves collect the dust, which prevents the filter from clogging.



How the filter catches dust



Maintainable on the ground

Portions that require daily maintenance, such as lubrication, have been laid out in easily accessible locations.



Easily removable bonnet

The bonnet can be detached by removing only the bolts, allowing easy access to the inside.

CONVENIENT AND SENSIBLE EQUIPMENT



Engine start password

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



Wiper adjustment function

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



Parallel wipers
Sun screen



Console mount

The console-integrated seat allows for comfortable operation.



AM/FM Bluetooth® (hands-free)

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



USB port/12 V power outlet



Smartphone holder

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



Built-in rear camera/right camera



Standard overhead top guard level II

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



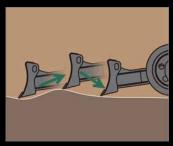
Increased clearance between the upper body and the shoes



Remote control fuel drain cock



Engine oil drain cock



Floating dozer (Option)

Floating dozer assists in easier leveling work.





Direct Access to Operational Status

Location Data

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







Work data Latest location Location records

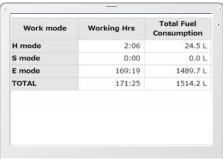
Operating Hours

- 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.

Daily report

Fuel Consumption Data

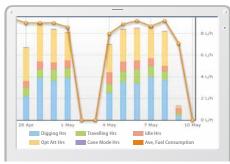
Data on fuel consumption and idling times can be used to indicate improvements in fuel consumption.



Fuel consumption

Graph of Work Content

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



Work status

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.

Model	Serial No.	Hour		
House		Meter	Engine Oil	
SK135SRLC-	YH07-09721	72441-	424	
3/SK140SRL	0.38/0.35	734 Hr	434	
SK135SRLC-	YH07-09789	73 Hr	429	
3/SK140SRL	0.38/0.35	/3 HI	429	
SK210LC-9	YQ13-10454	960 Hr	58	
SK210LC-9	0.8/0.7	900 HI	56	
SK210LC-9	YQ13-10481	549 Hr	498	
SK210LC-9	0.8/0.7	349 Hi	490	
SK75SR-	YT08-30374			

Maintenance

Warning Alerts

This system warns an alert if an anomaly is sensed, preventing damage that could result in machine downtime.

Alarm Information Can Be Received through E-mail

Alarm information or maintenance notice can be received through E-mail, using a computer or cell phone.



Alarm messages can be received on mobile device.

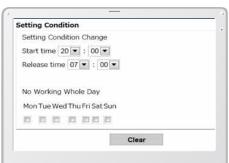
Daily/Monthly Reports

Operational data downloaded onto a computer helps in formulating daily and monthly reports.

Security System

Engine Start Alarm

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



Engine start alarm outside prescribed work time

Area Alarm

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



Alarm for outside of reset area

Specifications



Model	YANMAR 4TNV98CT			
Туре	Four-cycle, water-cooled, direct injection diesel engine, turbo charged, EU Stage V exhaust emission regulation			
No. of cylinders	4			
Bore and stroke	98 mm x 110 mm			
Displacement	3.318 L			
Rated power output	52.3 kW/2,100 min ⁻¹ (ISO 9249: with fan)			
Rated power output	53.7 kW/2,100 min ⁻ 1 (ISO 14396: without fan)			
May tarqua	293 N·m/1,365 min ⁻ 1 (ISO 9249: with fan)			
Max. torque	296 N·m/1,365 min ⁻¹ (ISO 14396: without fan)			

Hydraulic system

Pump				
Туре	Two variable displacement axial piston pumps + pilot gear pump			
Max. discharge flow	2 × 72.5 L/min 1 × 19 L/min			
Relief valve setting				
Boom, arm and bucket	29.4 MPa			
Travel circuit	29.4 MPa			
Swing circuit	24.5 MPa			
Control circuit	5.0 MPa			
Pilot control pump	Gear type			
Main control valves	13-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	11.5 min ⁻¹		
Swing torque	17 kN·m		
Maximum swing gradient (Loaded)*	24% {14°}		

*Value for the least favourable specification

Travel system

Travel motors	2 × axial-piston, two-step motors		
Travel brakes	Hydraulic brake per motor		
Parking brakes	Oil disc brake per motor		
Travel shoes	39 each side		
Travel speed	5.0/2.7 km/h		
Rated drawbar pull	77 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

I wo nand levers and two foot pedals for travel				
Two hand levers for excavating and swing				
Electric rotary-type engine throttle				
Noise levels				
External	External 98 dB(A) (2000/14/EC)			
Operator 73 dB(A) (ISO 6396)				
Vibration levels				
Hand/arm* ≤ 2.5 m/s ²				
Podu* < 0.5 m/s²				

*For the risk assessment according to 2002/44/EC, refer to ISO/TR 25398: 2006



110 mm × 916 mm
95 mm × 839 mm
85 mm × 762 mm
105 mm × 586 mm
145 mm × 189 mm
100 mm × 514 mm

*for Two piece boom only



Refilling capacities & lubrications

Fuel tank	120 L		
Cooling system	12.8 L		
Engine oil	11.8 L		
Travel reduction gear	2 × 1.3 L		
Swing reduction gear	1.5 L		
Hudraulic oil tank	44 L tank oil level		
Hydraulic oil tank	84 L hydraulic system		



Backhoe bucket and combination

acking bucket and co	on binduon						
			Backhoe bucket				
Use		Standard	Narrow			Wide	
Deceleration of the	ISO heaped	m³	0.28	0.11	0.18	0.22	0.35
Bucket capacity	Struck	m³	0.21	0.09	0.14	0.18	0.26
Opening width	With side cutter	mm	750	_	550	650	870
	Without side cutter	mm	680	400	480	580	780
No. of teeth			4	3	3	4	4
Bucket weight kg		210	190	170	190	230	
Combination	1.87 m arm		0	0	0	0	Δ
	2.13 m arm		Δ	0	0	0	_

O Standard

○ Recommended

 \triangle Loading onl



SK85MSR-7

Working ranges

		Unit: m	
Boom	3.50 m		
Range Arm	1.87 m	2.13 m	
a - Max. digging reach	7.24	7.50	
b - Max. digging reach at ground level	7.07	7.34	
c - Max. digging depth	4.18	4.44	
d - Max. digging height	7.01	7.23	
e - Max. dumping clearance	4.98	5.18	
f - Min. dumping clearance	1.95	1.70	
g - Max. vertical wall digging depth	3.42	3.75	
h - Min. swing radius	2.70	2.80	
 i - Horizontal digging stroke at ground level 	3.11	3.51	
j - Digging depth for 2.4 m (8') flat bottom	3.82	4.12	
Bucket capacity ISO heaped m ³	0.28	0.22	

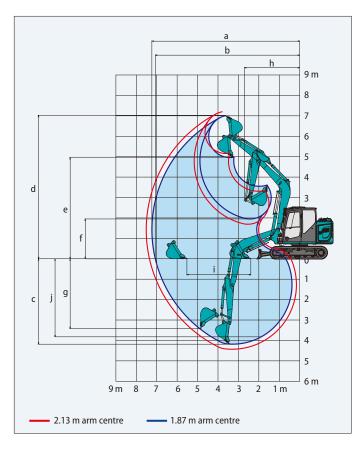
Dimensions

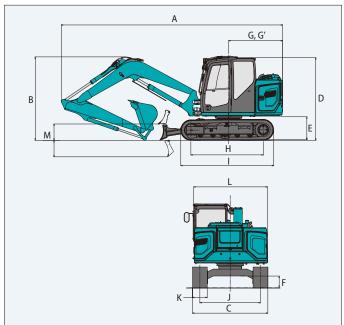
			Unit: mm			
В	oom	3.50	0 m			
A	rm length	1.87 m	2.13 m			
Α	Overall length	6,730	6,750			
В	Overall height (to top of boom)	2,400	2,550			
C	Overall width (narrow specification)	2,300*	* (2,150)			
D	Overall height (to top of cab)	2,5	70			
Ε	Ground clearance of rear end*	720				
F	Ground clearance*	350				
G	Tail swing radius (add on counter weight)	1,650 (1,740)				
G'	Distance from centre of swing to rear end	1,6	50			
Н	Tumbler distance	2,2	10			
1	Overall length of crawler	2,8	30			
J	Track gauge (narrow specification)	1,850 (1,700)			
K	Shoe width	45	50			
L	Overall width of upperstructure	2,3	00			
М	Dozer blade (up/down)	500(29	°)/500			

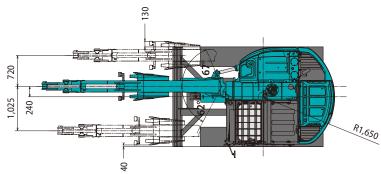
*Without including height of shoe lug **450 mm shoe

Digging force (ISO 6015)

		Offic. KIN (Kg)					
Arm length	length 1.87 m						
Bucket digging force	60.3 {	6,150}					
Arm crowding force	37.1 {3,780}	33.7 {3,440}					







Operating weight & ground pressure In standard trim, with standard boom, 2.13 m arm, and 0.22 m³ ISO heaped bucket.

			•									
Shaped		Triple grouser sh	oes (even height)	Rubber pad shoes	Rubber shoes	BS Geogrip shoes						
Shoe width	mm	600	450									
Overall width of crawler	mm	2,450	2,300									
Ground pressure	kPa	30	39	40	38	39						
Operating weight kg		8,850	8,600	8,930	8,480	8,650						

Specifications

Two piece boom specifications



Working ranges

		Unit: m
Boom	Two pie	ce boom
Range Arm	1.87 m	2.13 m
a- Max. digging reach	7.75	8.01
b-Max. digging reach at ground level	7.59	7.86
c- Max. digging depth	4.31	4.57
d-Max. digging height	7.92	8.16
e- Max. dumping clearance	5.84	6.09
f- Min. dumping clearance	1.09	0.825
g-Max. vertical wall digging depth	3.73	4.00
h-Min. swing radius	2.53	2.65
i- Horizontal digging stroke at ground level	4.48	5.00
j- Digging depth for 2.4 m (8') flat bottom	4.16	4.43
Bucket capacity ISO heaped m ³	0.28	0.22

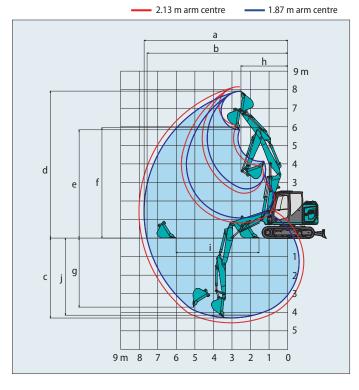
Digging force (ISO 6015)

Digging force (ISO 6013))	Unit: kN
Arm length	1.87 m	2.13 m
Bucket digging force	60).3
Arm crowding force	37.1	33.7

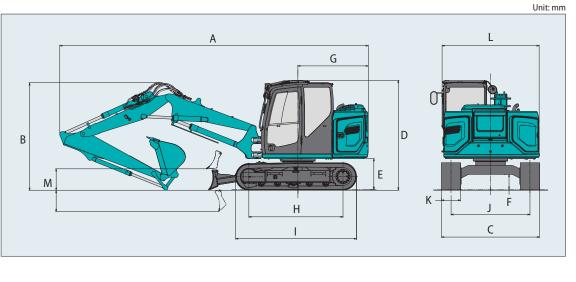
Dimensions

		Unit: mm					
Boom Two piece boom							
A	rm length	1.87 m	2.13 m				
Α	Overall length	7,220	7,230				
В	Overall height (to top of boom)	2,400	2,530				
C	Overall width of crawler (narrow specification)	2,300 (2,150)					
D	Overall height (to top of cab)	2,5	570				
Е	Ground clearance of rear end*	720					
F	Ground clearance*	350					
G	Tail swing radius	1,650					

*Without including height of shoe lug



Н	Tumbler distance	2,210
1	Overall length of crawler	2,830
J	Track gauge (narrow specification)	1,850 (1,700)
K	Shoe width	450
L	Overall width of upperstructure	2,300
М	Dozer blade (up/down)	500(29°)/500



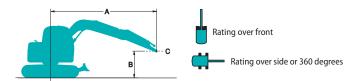
1,025 715

Operating weight & ground pressure In standard trim, with standard boom, 2.13 m arm, and 0.22 m³ ISO bucket

Shaped		Triple grou (even h		Rubber pad shoes	BS Geogrip shoes						
Shoe width	mm	600	450								
Overall width of crawler	mm	2,450		2,300							
Ground pressure	kPa	31	40	41	40	40					
Operating weight	kg	9,220	8,980	9,310	8,840	9,030					

Lift capacities





A: Reach from swing centreline to arm top B: Arm top height above/below ground C: Lift point Relief valve setting: 29.4 MPa {300 kgf/cm²}

Mono boom specifications

SK85MSR		Boom: 3.50	Boom: 3.50 m Arm: 1.87 m Bucket: Without Counterweight: 700 kg Shoe: 450 mm Dozer: Blade up										
A		1.5	m	3.0	3.0 m		4.5 m		m	At max. reach			
В		<u> </u>				4		<u> </u>		<u> </u>		Radius	
6.0 m	kg									*1,830	*1,830	3.45 m	
4.5 m	kg					1,910	1,650			*1,420	1,290	5.19 m	
3.0 m	kg			*3,280	*3,000	1,830	1,580			1,160	1,000	5.96 m	
1.5 m	kg					1,700	1,460	1,110	960	1,050	910	6.19 m	
G.L.	kg			2,970	2,440	1,610	1,370			1,080	930	5.99 m	
-1.5 m	kg	*3,950	*3,950	3,000	2,470	1,600	1,360			1,290	1,100	5.26 m	
-3.0 m	kg			*2,280	*2,280					*1,750	*1,750	3.63 m	

SK85MSR		Boom: 3.50 r	Boom: 3.50 m Arm: 1.87 m Bucket: Without Counterweight: 700 kg + 300 kg Shoe: 450 mm Dozer: Blade up										
		1.5	m	3.0	m	4.5	4.5 m		6.0 m		At max. reach		
В		1		1		<u> </u>		1		<u> </u>		Radius	
6.0 m	kg									*1,830	*1,830	3.45 m	
4.5 m	kg					*2,030	1,820			*1,420	*1,420	5.19 m	
3.0 m	kg			*3,280	*3,280	2,020	1,750			1,290	1,120	5.96 m	
1.5 m	kg					1,890	1,630	1,240	1,080	1,180	1,020	6.19 m	
G.L.	kg			3,320	2,740	1,800	1,540			1,210	1,050	5.99 m	
-1.5 m	kg	*3,950	*3,950	3,340	2,760	1,790	1,530			1,440	1,250	5.26 m	
-3.0 m	kg			*2,280	*2,280					*1,750	*1,750	3.63 m	

SK85MSR		Boom: 3.50	m Arm: 1.87 r	n Bucket: Wi	cket: Without Counterweight: 1,050 kg Shoe: 450 mm Dozer: Blade up								
	A		m	3.0	3.0 m		4.5 m		m		At max. reach		
В		<u> </u>		⋴	# -	<u> </u>		<u> </u>		1		Radius	
6.0 m	kg									*1,830	*1,830	3.45 m	
4.5 m	kg					*2,030	1,830			*1,420	*1,420	5.19 m	
3.0 m	kg			*3,280	*3,280	2,030	1,760			1,300	1,130	5.96 m	
1.5 m	kg					1,900	1,640	1,250	1,080	1,190	1,030	6.19 m	
G.L.	kg			3,340	2,760	1,810	1,550			1,220	1,060	5.99 m	
-1.5 m	kg	*3,950	*3,950	3,370	2,780	1,800	1,540			1,450	1,260	5.26 m	
-3.0 m	kg			*2,280	*2,280					*1,750	*1,750	3.63 m	

SK85MSR		Boom: 3.50 m Arm: 1.87 m Bucket: Without Counterweight: 1,050 kg + 300 kg						Shoe: 450 mm Dozer: Blade up					
		1.5 m		3.0	m	4.5	4.5 m		6.0 m		At max. reach		
В		1		1		<u> </u>		<u> </u>				Radius	
6.0 m	kg									*1,830	*1,830	3.45 m	
4.5 m	kg					*2,030	2,000			*1,420	*1,420	5.19 m	
3.0 m	kg			*3,280	*3,280	2,220	1,930			*1,380	1,250	5.96 m	
1.5 m	kg					2,090	1,810	1,380	1,200	1,310	1,140	6.19 m	
G.L.	kg			3,680	3,050	2,000	1,720			1,350	1,170	5.99 m	
-1.5 m	kg	*3,950	*3,950	3,710	3,070	1,990	1,710			1,610	1,390	5.26 m	
-3.0 m	kg			*2,280	*2,280					*1,750	*1,750	3.63 m	

SK85MSR		Boom: 3.50 r	m Arm: 2.13 i	n Bucket: Wi	thout Counte	erweight: 700 k	kg Shoe: 450	mm Dozer: B	lade up			
	Α	1.5	m	3.0	m	4.5	m	6.0	m		At max. reach	
В		1		<u> </u>		1		1		1		Radius
6.0 m	kg									*1,460	*1,460	3.97 m
4.5 m	kg					*1,860	1,670			*1,170	1,160	5.52 m
3.0 m	kg					1,840	1,590	1,140	990	1,070	930	6.23 m
1.5 m	kg					1,700	1,460	1,100	950	980	840	6.46 m
G.L.	kg			2,950	2,420	1,600	1,360	1,060	910	1,000	860	6.26 m
-1.5 m	kg	*3,420	*3,420	2,960	2,430	1,570	1,340			1,170	1,000	5.58 m
-3.0 m	kg			*2,860	2,530					*1,800	1,580	4.12 m

Lift capacities

Mono boom specifications

SK85MSR		Boom: 3.50 i	m Arm: 2.13 i	m Bucket: Wi	thout Counte	erweight: 700 k	kg + 300 kg S	hoe: 450 mm	Dozer: Blade ι	ıp		
		1.5	m	3.0) m	4.5	m	6.0	m		At max. reach	
В				<u> </u>		<u> </u>						Radius
6.0 m	kg									*1,460	*1,460	3.97 m
4.5 m	kg					*1,860	1,830			*1,170	*1,170	5.52 m
3.0 m	kg					2,030	1,760	1,270	1,110	*1,130	1,040	6.23 m
1.5 m	kg					1,890	1,630	1,230	1,070	1,090	950	6.46 m
G.L.	kg			3,300	2,710	1,790	1,530	1,190	1,030	1,120	970	6.26 m
-1.5 m	kg	*3,420	*3,420	3,300	2,720	1,760	1,500			1,310	1,130	5.58 m
-3.0 m	kg			*2,860	2,820					*1,800	1,770	4.12 m

SK85MSR		Boom: 3.50 i	m Arm: 2.13 i	n Bucket: Wi	thout Counte	erweight: 1,050	kg Shoe: 45	0 mm Dozer:	Blade up			
		1.5	m	3.0	m	4.5	m	6.0	m		At max. reach	
В						1		<u> </u>		1		Radius
6.0 m	kg									*1,460	*1,460	3.97 m
4.5 m	kg					*1,860	1,850			*1,170	*1,170	5.52 m
3.0 m	kg					2,040	1,770	1,280	1,120	*1,130	1,050	6.23 m
1.5 m	kg					1,900	1,640	1,240	1,080	1,100	960	6.46 m
G.L.	kg			3,320	2,730	1,800	1,540	1,200	1,040	1,130	980	6.26 m
-1.5 m	kg	*3,420	*3,420	3,330	2,740	1,770	1,520			1,320	1,140	5.58 m
-3.0 m	kg			*2,860	2,840					*1,800	1,780	4.12 m

SK85MSR		Boom: 3.50	m Arm: 2.13 n	n Bucket: Wi	thout Counte	erweight: 1,050) kg + 300 kg	Shoe: 450 mm	Dozer: Blade	e up		
		1.5	m	3.0	m	4.5	m	6.0	m		At max. reach	
В												Radius
6.0 m	kg									*1,460	*1,460	3.97 m
4.5 m	kg					*1,860	*1,860			*1,170	*1,170	5.52 m
3.0 m	kg					*2,170	1,940	1,410	1,240	*1,130	*1,130	6.23 m
1.5 m	kg					2,090	1,810	1,370	1,190	*1,200	1,070	6.46 m
G.L.	kg			3,660	3,030	1,990	1,710	1,330	1,160	1,250	1,090	6.26 m
-1.5 m	kg	*3,420	*3,420	3,670	3,030	1,960	1,680			1,460	1,270	5.58 m
-3.0 m	kg			*2,860	*2,860					*1,800	*1,800	4.12 m

Two piece boom specifications

SK85MSR		2 Piece Booi	m Arm: 1.87 r	n Bucket: Wi	thout Counte	rweight: 700 k	g Shoe: 450	mm Dozer: Bl	lade up			
		1.5	m	3.0) m	4.5	m	6.0	m		At max. reach	
В		<u> </u>		1		1		1		1		Radius
6.0 m	kg									1,890	1,620	4.41 m
4.5 m	kg					*1,720	1,590			1,150	990	5.81 m
3.0 m	kg			3,310	2,720	1,710	1,450	1,060	900	910	780	6.49 m
1.5 m	kg			2,850	2,300	1,520	1,280	990	840	830	700	6.70 m
G.L.	kg	*3,050	*3,050	2,080	2,080	1,420	1,180	950	790	840	710	6.52 m
-1.5 m	kg	*5,310	*5,310	2,710	2,180	1,410	1,170			980	820	5.87 m
-3.0 m	kg			*2,620	2,330					*760	*760	4.54 m

SK85MSR		2 Piece Boor	m Arm: 1.87 r	n Bucket: Wit	thout Counte	rweight: 700 k	g + 300 kg S	hoe: 450 mm	Dozer: Blade u	р		
		1.5	m	3.0) m	4.5	m	6.0	m		At max. reach	
B 6.0 m kg		-		-		1		-		1		Radius
6.0 m	kg									*2,000	1,800	4.41 m
4.5 m	kg					*1,720	*1,720			1,290	1,110	5.81 m
3.0 m	kg			3,650	3,010	1,900	1,620	1,190	1,020	1,030	890	6.49 m
1.5 m	kg			3,190	2,590	1,710	1,450	1,120	960	940	800	6.70 m
G.L.	kg	*3,050	*3,050	2,960	2,380	1,610	1,350	1,080	910	960	820	6.52 m
-1.5 m	kg	*5,310	*5,310	*3,030	2,470	1,600	1,340			1,110	950	5.87 m
-3.0 m	kg			*2,620	*2,620					*760	*760	4.54 m

SK85MSR		2 Piece Boor	m Arm: 1.87 r	n Bucket: Wit	:hout Counte	rweight: 1,050	kg Shoe: 450	0 mm Dozer:	Blade up			
		1.5	m	3.0	m	4.5	m	6.0	m		At max. reach	
В		-		1		1		1		1		Radius
6.0 m	kg									*2,000	1,810	4.41 m
4.5 m	kg					*1,720	*1,720			1,300	1,120	5.81 m
3.0 m	kg			3,680	3,030	1,910	1,630	1,200	1,030	1,040	890	6.49 m
1.5 m	kg			3,220	2,610	1,720	1,460	1,130	970	950	810	6.70 m
G.L.	kg	*3,050	*3,050	2,980	2,400	1,620	1,360	1,090	920	970	820	6.52 m
-1.5 m	kg	*5,310	*5,310	*3,030	2,490	1,610	1,350			1,120	950	5.87 m
-3.0 m	kg			*2,620	*2,620					*760	*760	4.54 m



4.54 m

Two piece boom specifications

-3.0 m

SK85MSR		2 Piece Boon	n Arm: 1.87 n	n Bucket: Wit	thout Counte	rweight: 1,050	kg + 300 kg	Shoes: 450 mm	n Dozer: Blad	e up		
		1.5	m	3.0	m	4.5	m	6.0	m		At max. reach	
В				1		1		1	=	<u> </u>		Radius
6.0 m	kg									*2,000	1, 980	4.41 m
4.5 m	kg					*1,720	*1,720			1,430	1,240	5.81 m
3.0 m	kg			4,020	3,320	*1,790	*1,790	1,330	1,150	1,160	1,000	6.49 m
1.5 m	kg			3,560	2,910	1,910	1,620	1,260	1,080	1,070	910	6.70 m
G.L.	kg	*3,050	*3,050	3,320	2,690	1,810	1,530	1,220	1,040	1,090	930	6.52 m
-1.5 m	kg	*5,310	*5,310	*3,030	2,780	1,800	1,520			1,260	1,070	5.87 m

*2,620

*2,620

SK85MSR		2 Piece Boor	m Arm: 2.13 n	n Bucket: Wit	thout Counte	rweight: 700 k	g Shoe: 450 r	nm Dozer: Bl	ade up			
		1.5	m	3.0	m	4.5	m	6.0	m		At max. reach	
В	B 6.0 m kg			<u> </u>		<u> </u>		1				Radius
6.0 m	kg					1,850	1,580			1,620	1,390	4.83 m
4.5 m	kg					1,870	1,610	1,070	910	1,050	890	6.12 m
3.0 m	kg			3,410	2,820	*1,590	1,470	1,060	900	840	710	6.76 m
1.5 m	kg			2,840	2,290	1,530	1,280	990	830	770	650	6.97 m
G.L.	kg	*2,650	*2,650	*1,730	*1,730	1,400	1,160	930	780	780	650	6.79 m
-1.5 m	kg	*4,650	*4,650	2,640	2,120	1,380	1,140	910	750	890	750	6.18 m
-3.0 m	kg	*6,570	*6,570	2,840	2,290	*1,160	*1,160			*860	*860	4.95 m

SK85MSR		2 Piece Boor	m Arm: 2.13 r	n Bucket: Wi	thout Counte	rweight: 700 k	sg + 300 kg S	hoe: 450 mm	Dozer: Blade u	р		
		1.5	m	3.0) m	4.5	m	6.0	m		At max. reach	
В				1		<u> </u>		<u> </u>				Radius
6.0 m	kg					2,040	1,750			*1,660	1,540	4.83 m
4.5 m	kg					2,060	1,770	1,200	1,030	1,170	1,010	6.12 m
3.0 m	kg			3,750	3,110	*1,590	*1,590	1,190	1,020	960	820	6.76 m
1.5 m	kg			3,180	2,580	1,720	1,450	1,120	950	880	740	6.97 m
G.L.	kg	*2,650	*2,650	*1,730	*1,730	1,590	1,330	1,060	900	890	750	6.79 m
-1.5 m	kg	*4,650	*4,650	2,990	2,410	1,570	1,310	1,040	870	1,020	860	6.18 m
-3.0 m	kg	*6,570	*6,570	3,190	2,590	*1,160	*1,160			*860	*860	4.95 m

SK85MSR		2 Piece Boor	m Arm: 2.13 n	n Bucket: Wi	thout Counte	rweight: 1,050	kg Shoe: 450	0 mm Dozer:	Blade up			
		1.5	m	3.0) m	4.5	m	6.0	m		At max. reach	
В				<u> </u>		<u> </u>		1		1		Radius
6.0 m	kg					2,050	1,760			*1,660	1,550	4.83 m
4.5 m	kg					2,070	1,780	1,210	1,040	1,180	1,020	6.12 m
3.0 m	kg			3,780	3,130	*1,590	*1,590	1,200	1,030	960	820	6.76 m
1.5 m	kg			3,210	2,600	1,730	1,460	1,130	960	880	750	6.96 m
G.L.	kg	*2,650	*2,650	*1,730	*1,730	1,600	1,340	1,070	900	900	760	6.76 m
-1.5 m	kg	*4,650	*4,650	3,010	2,430	1,580	1,320	1,050	880	1,030	870	6.18 m
-3.0 m	kg	*6,570	*6,570	3,210	2,610	*1,160	*1,160			*860	*860	4.95 m

SK85MSR		2 Piece Boor	m Arm: 2.13 r	n Bucket: Wi	thout Counte	rweight: 1050	kg + 300 kg	Shoes: 450 mm	Dozer: Blade	e up		
		1.5	m	3.0	m	4.5	m	6.0	m		At max. reach	
В		1		<u> </u>		<u> </u>		<u> </u>		<u> </u>		Radius
6.0 m	kg					*2,080	1,930			*1,660	*1,660	4.83 m
4.5 m	kg					*2,150	1,950	1,340	1,160	1,310	1,130	6.12 m
3.0 m	kg			*4,000	3,420	*1,590	*1,590	1,330	1,150	1,080	930	6.76 m
1.5 m	kg			3,550	2,900	1,920	1,630	1,260	1,080	990	850	6.97 m
G.L.	kg	*2,650	*2,650	*1,730	*1,730	1,790	1,510	1,200	1,020	1,010	860	6.79 m
-1.5 m	kg	*4,650	*4,650	3,350	2,720	1,770	1,490	1,180	1,000	1,150	980	6.18 m
-3.0 m	kg	*6,570	*6,570	*3,400	2,900	*1,160	*1,160			*860	*860	4.95 m

Notes:

- 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 lifting capacities are in compliance with ISO 10567. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Lifting 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.



STANDARD EQUIPMENT

FNGINE

- YANMAR 4TNV98CT Diesel engine with turbocharger and intercooler, EU Stage V compliant
- Auto Idle Stop
- Automatic engine deceleration
- Batteries (2 x 12 V 81Ah)
- Starting motor (24 V 3.5 kW), 50 amp alternator
- Engine oil pan drain cock
- Double element air cleaner
- Refueling pump

CONTROL

- Working mode selector (H-mode, S-mode and ECO-mode)
- Rotating & N&B piping (proportional hand controlled) (for mono boom only)
- E & N&B piping (proportional hand controlled) (for 2 piece boom only)
- Bucket link with lifting hook (boom and arm safety valves and overload alarm)

SWING SYSTEM & TRAVEL SYSTEM

- Swing rebound prevention system
- Straight propel system
- Two-speed travel with automatic shift down
- Sealed & lubricated track links
- 450 mm steel shoes
- Grease-type track adjusters
- Automatic swing brake
- Lower frame guard
- Dozer blade

MIRRORS, LIGHTS & CAMERAS

- Rear view mirror, rear view camera and right side view camera
- LED work lights: 2 on boom, 1 on upper frame, 2 on rear counterweight

CAB & CONTROL

- Two control levers, pilot-operated
- Horn, electric
- Integrated left-right slide-type control box
- LED door light (interior)
- Coat hook
- Large cup holder
- Detachable two-piece floor mat
- GRAMMER* air suspension seat with heater
- Retractable seatbelt
- Headrest
- Handrails
- Intermittent Parallel wiper with double-spray washer
- Skylight
- Openable top guard (ISO 10262: 1998)
- Tinted safety glass
- Pull-type front window and removable lower front window
- Easy-to-read 10-inch LCD SCREEN multi-display monitor
- DAB+ radio (FM/AM & AUX & USB & Bluetooth® & hands free telephone)
- 12 V converter
- Hands-free telephone
- USB port
- Automatic air conditioner
- Air conditioning system

The air conditioning system on this machine contains fluorinated greenhouse gas HFC-134a (GWP 1430). Quantity of gas 0.8 kg (CO₂ equivalent 1.2 t)

- Sun screen
- Large footrest

■ Emergency escape hammer

OPTIONAL EQUIPMENT

- Various optional arms
- Wide range of shoes
- Front-guard protective structure (may interfere with bucket action)
- Additional counterweight (+300 kg)
- Cab top work LED lights (two lights)
- Mechanical suspension seat (Applicable for N&B piping)
- Rain visor (may interfere with bucket action)
- Note: Standard and optional equipment may vary. Consult your KOBELCO dealer for specifics. Bluetooth* is a registered trademark of the Bluetooth SIG Inc.
 - *GRAMMER is trademark of GRAMMER AG. registered in Germany and other countries.

- Floating dozer
- N&B piping (proportional hand controlled)
- Quick hitch piping
- Heavier counterweight (+350 kg)
- Eagle eye view
- Travel alarm
- 2 Piece Boom

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

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