

KOBEL



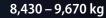
# SK 85MSR

10

SK 95 MSR

- Bucket capacity:
- 0.11 0.35 m<sup>3</sup>
- Engine power:
- 53.7 kW/2,100 min<sup>-1</sup>

Operating weight:



KOBELCO





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.

# **2** Air conditioner blowing from the rear

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

# **3** 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.



### 4 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.

5 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.



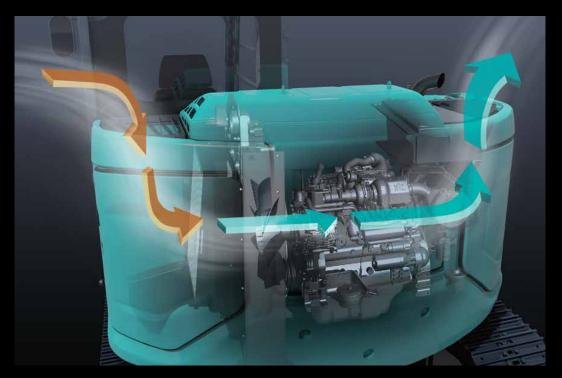


# TYPES OF ATTACHMENT MODE

	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	
	$\rightarrow$	Rotating grapple	Swing operation on slope while raising attachment/ equipment becomes possible. Boom 2-speed systems is controlled by proportional valve.	
NEWLY ADDED MODE	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 la company	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.	

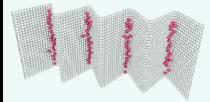
# **NON-STOP OPERATION BY INDr**





### **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

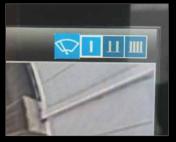
The bonnet can be detached by removing only the bolts, allowing easy access to the inside.

# **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/Roll sun shade



**Console mount** 

The console-integrated seat allows for comfortable operation.



AM/FM Bluetooth® (hands-free) radio

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



Openable FOPS guard
The openable guard allows for easy maintenance.



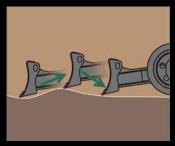
Increased clearance between the upper body and the shoes



Remote control fuel drain cock



Engine oil drain cock



Floating dozer (Option)

Floating dozer assists in easier leveling work.

Floating function can be activated by the switch which is integrated into the dozer control lever.





### **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**

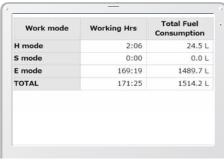
- A comparison of operating times of machines at multiple locations shows which locations are busier and more profitable.
- Operating hours on site can be accurately recorded, for running time calculations needed for rental machines, etc.

# 

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	72411-	424	
3/SK140SRL	0.38/0.35	734 Hr	434	
SK135SRLC-	YH07-09789	73 Hr	429	
3/SK140SRL	0.38/0.35	/3 HI		
SK210LC-9	YQ13-10454	960 Hr	58	
SK210LC-9	0.8/0.7	900 HI		
SK210LC-9	YQ13-10481	549 Hr	498	
SKZ10LC-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.

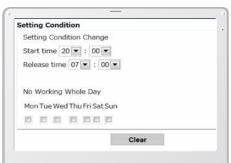
### **Daily/Monthly Reports**

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-stroke, liquid-cooled, direct injection diesel, turbo charged complies with 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 <sup>-1</sup> (ISO 9249: with fan)
nated power output	53.7 kW/2,100 min <sup>-1</sup> (ISO 14396: without fan)
Max. torque	293 N·m/1,365 min <sup>-1</sup> (ISO 9249: with fan)
Max. Wique	296 N·m /1,365 min <sup>-1</sup> (ISO 14396: without fan)



# **Hydraulic system**

Pump			
Туре	Variable displacement piston pumps + one gear pump		
Max. discharge flow	2 x 72.5 L/min 1 x 19 L/min		
Relief valve setting			
Boom, arm and bucket	29.4 Mpa {300 kgf/cm <sup>2</sup> }		
Travel circuit	29.4 Mpa {300 kgf/cm <sup>2</sup> }		
Swing circuit	24.5 Mpa {250 kgf/cm <sup>2</sup> }		
Control circuit	5.0 Mpa {50 kgf/cm²}		
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 <sup>-1</sup>
Tail swing radius	1,650 mm
Swing torque	17 kN·m



# Backhoe bucket and combination

**Attachments** 

Use -		Backhoe bucket						
		Standard	ndard Narrow					
Pucket capacity	ISO heaped	m³	0.28	0.11	0.14	0.18	0.22	0.35
Bucket capacity	Struck	m³	0.25	0.09	0.12	0.14	0.18	0.26
Opening width	With side cutter	mm	650	_	480	550	650	850
	Without side cutter	mm	680	400	410	480	580	780
No. of teeth			4	3	3	3	4	4
Bucket weight kg		210	190	160	170	190	_	
Combination	1.87 m arm		0	0	0	0	0	$\triangle$
	2.13 m arm		Δ	0		0	0	_

○ Standard ○ Recommended  $\triangle$  Loading only

# Travel system

Travel motors	Variable displacement piston, two-speed motors
Travel brakes	Hydraulic brake
Parking brakes	Wet multiple plate
Travel shoes	39 each side
Travel speed	5.0/2.7 km/h
Drawbar pulling force	77 kN (ISO 7464)
Gradeability	58% {30°}



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		
Noise levels		
External	98 dB(A)	
Operator	73 dB(A)	



# Boom, arm & bucket

Boom cylinders	110 mm x 916 mm
Arm cylinder	95 mm x 839 mm
Bucket cylinder	85 mm x 762 mm



# **Dozer blade**

Dozer cylinder	145 mm x 189 mm
Dimension	2,300 mm {for 450 mm shoe} (width) x 460 mm (height)*
Working range	500 mm (up) x 500 mm (down)

<sup>\*</sup>Dozer width is changed according to the shoe width difference.



# Refilling capacities & lubrications

120 L
12.8 L
11.8 L
2 x 1.3 L
1.5 L
44 L tank oil level
84 L hydraulic system





# **Working ranges**

### Unit: m a - Max. digging reach 7.24 7.50 b - Max. digging reach at ground level 7.34 7.07 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 3.75 3.42 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

# Dimensions

			Unit: mm			
В	oom	3.50	) 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	1,650				
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	0			
L	Overall width of upperstructure	2,300				
M	Dozer blade (up/down)	500(29°)/500				

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

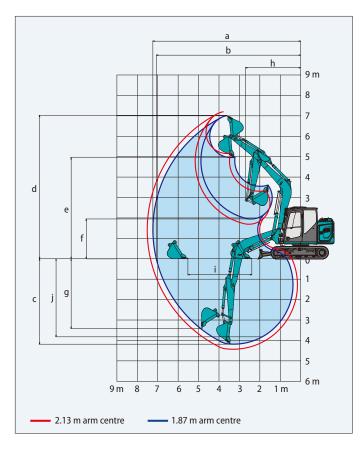
# Digging force (ISO 6015)

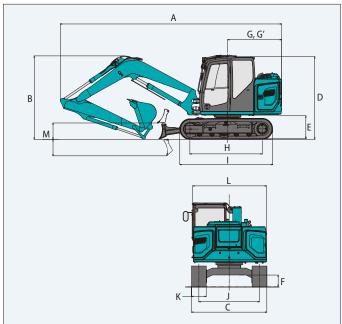
Bucket capacity ISO heaped m³

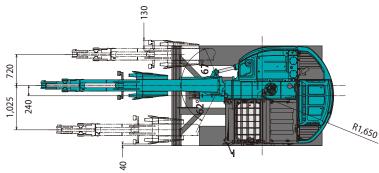
Digging force (150 001)	<i>)</i>	Unit: kN {kgf}				
Arm length	1.87 m	2.13 m				
Bucket digging force	ce 60.3 {6,150}					
Arm crowding force	37.1 {3,780}	33.7 {3,440}				

0.28

0.22







# Operating weight & ground pressure

In standard trim, with standard boom, 2.13 m arm, and 0.22 m<sup>3</sup> ISO heaped bucket.

Shaped		Triple grouser sh	oes (even height)	Rubber pad shoes	Rubber shoes	BS Geogrip shoes				
Shoe width	mm	600		4.	50					
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 m³	0.28	0.22

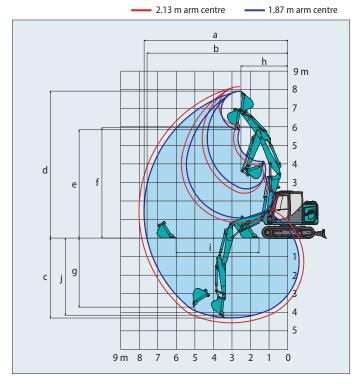
# Digging force (ISO 6015)

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

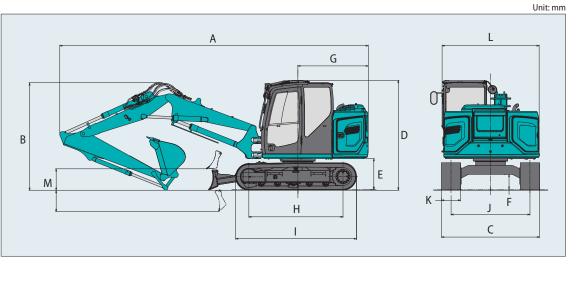
# **Dimensions**

		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*	7	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



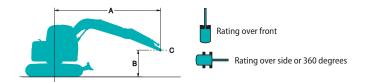
# 1,025 715

# **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	Rubber 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 i	Boom: 3.50 m Arm: 1.87 m Bucket: Without Counterweight: 700 kg Shoe: 450 mm Dozer: Blade up										
		1.5	m	3.0	m	4.5	4.5 m		m		At max. reach		
В		1	<del></del>	<u> </u>	<del></del>	1	<del></del>	4	<del></del>	<u> </u>	<del>_</del>	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 m Arm				m Bucket: Wi	thout Counte	erweight: 700 k	g + 300 kg Sl	hoe: 450 mm	Dozer: Blade u	ір		
	A 1.5 m		m	3.0	m	4.5	m	6.0	m		At max. reach	
В		1	<del>-</del>	1	<del></del>	<u> </u>	<del></del>	<u> </u>	<del></del>	1	<del></del>	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	m 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		-	<del></del>	1	<del></del>	-	<del></del>	<u> </u>	<del></del>	1	<del></del>	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			m Arm: 1.87 i	m Bucket: Without Counterweight: 1,050 kg + 300 kg				Shoe: 450 mm Dozer: Blade up				
		1.5 m		3.0	m	4.5	m	6.0	m	At max. reach		
В		1	<del></del>	<u> </u>	<del></del>	<u> </u>	<del></del>	1	<del></del>		<del></del>	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	m Arm: 2.13 r	n Bucket: Wi	thout Counte	erweight: 700 k	kg Shoe: 450	mm Dozer: B	lade up			
		1.5	m	3.0	) m	4.5	m	6.0	m		At max. reach	
В		<u> </u>	<del></del>	<u> </u>	<del></del>	<u> </u>	<del></del>	<u> </u>	<del></del>		<del></del>	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

SK85N	MSR	Boom: 3.50	m Arm: 2.13 r	n Bucket: Wi	thout Counte	erweight: 700 l	kg + 300 kg	Shoe: 450 mm	Dozer: Blade ι	ір		
		1.5	m	3.0	) m	4.5	i m	6.0	m		At max. reach	
В			<del></del>		<del></del>	<u> </u>	<del></del>		<del></del>		<del></del>	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			<del></del>		<del></del>	1	<del></del>	<u> </u>	<del></del>	1	<del></del>	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 i	m Arm: 2.13 i	m 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		<u> </u>	<del></del>	<u> </u>	<del></del>	<b>L</b>	<del></del>	1	<del></del>		<del></del>	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: Wit	thout Counte	rweight: 700 k	g Shoe: 450 i	mm Dozer: B	ade up			
		1.5	m	3.0	m	4.5	m	6.0	m		At max. reach	
В		<u> </u>	<del></del>	1	<del></del>	1	<del></del>	<u> </u>	<del></del>	1	<del></del>	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: Wi	thout Counte	rweight: 700 k	g + 300 kg S	hoe: 450 mm	Dozer: Blade u	ıp		
		1.5	m	3.0	m	4.5	m	6.0	m		At max. reach	
В		-	<del></del>	1	<del></del>	1	<del></del>	1	<del></del>	1	<del></del>	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	thout Counte	rweight: 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		-	<del></del>	1	<del></del>	1	<del></del>	1	<del></del>	1	<del></del>	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



# Two piece boom specifications

SK85MSR		2 Piece Boor	m Arm: 1.87 n	n Bucket: Wit	hout Counte	rweight: 1,050	kg + 300 kg	Shoes: 450 mn	n Dozer: Blad	e up		
		1.5	m	3.0	m	4.5	m	6.0	m		At max. reach	
В			<del></del>	<u> </u>	<del></del>	<u> </u>	<del></del>		<del></del>		<del></del>	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
-3.0 m	kg			*2,620	*2,620					*760	*760	4.54 m

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	-		<del></del>	1	<del></del>	<u> </u>	<del></del>	1	<del></del>		<del></del>	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

SK85MSF		2 Piece Boor	m Arm: 2.13 r	m Bucket: Without Counterweight: 700 kg + 300 kg Shoe: 450 mm Dozer: Blade up									
		1.5	m	3.0	m	4.5	m	6.0	m		At max. reach		
В			<del></del>	1	<del></del>	1	<del></del>	<u> </u>	<del></del>		<del></del>	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	5 m	6.0	m		At max. reach	
В		<u> </u>	<del></del>	<u> </u>	<del></del>	1	<del></del>	1	<del></del>	<u> </u>	<del></del>	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 Boom Arm: 2.13 m Bucket: Without Counterweight: 1050 kg + 300 kg Shoes: 450 mm Dozer: Blade up										
		1.5 m		3.0 m		4.5 m		6.0 m		At max. reach		
В		<u> </u>	<del></del>	<u> </u>	<del></del>	-	<del></del>		<del></del>	1	<del></del>	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 EOUIPMENT

### **FNGINE**

- YANMAR 4TNV98CT diesel engine with turbocharger and intercooler, EU Stage V compliant
- Auto Idle Stop
- Automatic engine deceleration
- Batteries (2 x 12 V 72 Ah)
- 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)
- N&B piping (proportional hand controlled)
- Extra piping (proportional hand controlled)
- Object Handling Kit (boom and arm safety valves)

### **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
- Three front working lights (LED)

### **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
- Emergency escape hammer
- Radio (AUX & Bluetooth)
- 12 V converter
- Hands-free telephone
- USB port
- Automatic air conditioner

The air conditioning system on this machine contains fluorinated greenhouse gas HFC-134a (GWP 1430). Quantity of gas 0.8 kg (CO<sub>2</sub> equivalent 1.2 t)

### **OPTIONAL EQUIPMENT**

- Various optional arms
- Wide range of shoes
- Front-quard protective structure (may interfere with bucket action)
- Additional counterweight (+300 kg)
- Cab top work LED lights (two lights)
- Floating dozer
- 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.
- Mechanical suspension seat (Applicable for N&B piping)
- Rain visor (may interfere with bucket action)
- Quick Hitch piping
- Heavier counterweight (+350 kg)
- Eagle eye view

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.

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