

KOBELCO

SK75SR-7

Performance  Design

SK 75SR

■ Bucket capacity:

0.22 – 0.28 m³

■ Engine power:

53.7 kW/2,100 min⁻¹

■ Operating weight:

7,770–8,160 kg







Performance Design

SK75SR 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.

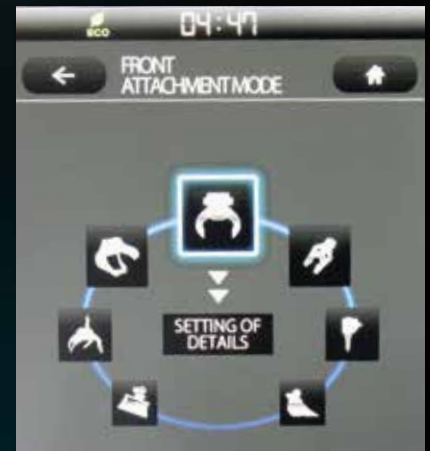




GREATER MULTI-FUNCTION CAPABILITIES

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.

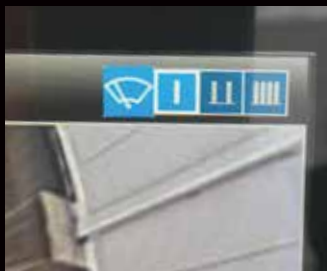


CONVENIENT AND SENSIBLE EQUIPMENT



Console mount

The console-integrated seat allows for comfortable operation.



Wiper adjustment function

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



USB port/12 V power outlet



Smartphone holder

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



AM/FM Bluetooth® (hands-free) radio

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



Openable TOPS guard

The openable guard allows for easy maintenance.



Increased clearance between the upper body and the shoes



Built-in rear camera/right camera



Engine oil drain cock



Remote control fuel drain cock

Specifications

Engine

Model	YANMAR 4TNV98CT
Type	Four-cycle, liquid-cooled, direct injection diesel, turbo charged, Tier 4 certified
No. of cylinders	4
Bore and stroke	98 mm x 110 mm
Displacement	3.318 L
Rated power output	51.5 kW/2,100 min ⁻¹ (ISO 9249: with fan)
	53.7 kW/2,100 min ⁻¹ (ISO 14396: without fan)
Max. torque	292 N.m/1,365 min ⁻¹ (ISO 9249: with fan)
	296 N.m/1,365 min ⁻¹ (ISO 14396: without fan)

Hydraulic system

Pump	
Type	Variable displacement piston pumps + One gear pump
Max. discharge flow	2 x 72.5 L/min, 1 x 19 L/min
	Extra gear pump 1 x 48 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	12-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

Attachments

Backhoe bucket and combination

Use			Backhoe bucket	
			Standard	Narrow
Bucket capacity	ISO heaped	m ³	0.28	0.22
	Struck	m ³	0.21	0.18
Opening width	With side cutter	mm	750	650
	Without side cutter	mm	680	580
No. of teeth			4	4
Bucket weight			210	200
Combination	1.71 m arm		◎	○
	2.13 m arm		△	◎

◎ Standard ○ Recommended △ 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	77.4 kN (ISO 7464)
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

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	135 mm x 129 mm
Dimension	2,300 mm {for 450 mm shoe} (width) x 460 mm (height)*
Working range	360 mm (up) x 250 mm (down)

*Dozer width is changed according to the shoe width difference.

Refilling capacities & lubrications

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



Working ranges

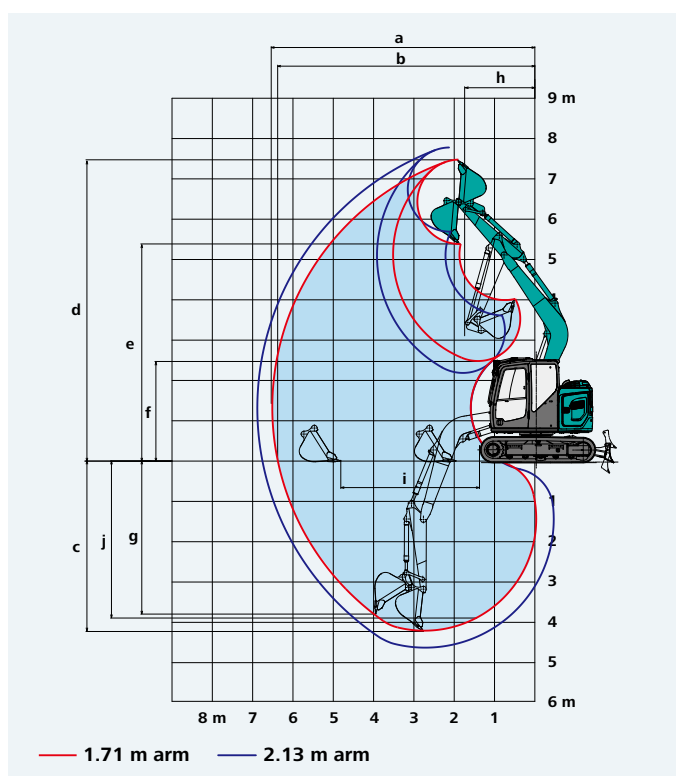
Unit: m

Range	3.82 m	
	1.71 m	2.13 m
a- Max. digging reach	6.48	6.88
b- Max. digging reach at ground level	6.35	6.76
c- Max. digging depth	4.16	4.58
d- Max. digging height	7.41	7.75
e- Max. dumping clearance	5.34	5.67
f- Min. dumping clearance	2.46	2.19
g- Max. vertical wall digging depth	3.73	4.14
h- Min. swing radius	1.73	2.13
i- Horizontal digging stroke at ground level	2.83	3.21
j- Digging depth for 2.4 m (8') flat bottom	3.83	4.31
Bucket capacity ISO heaped m ³	0.28	0.22

Digging force (ISO 6015)

Unit: kN

Arm length	1.71 m	2.13 m
Bucket digging force	60.3	
Arm crowding force	39.3	35.2



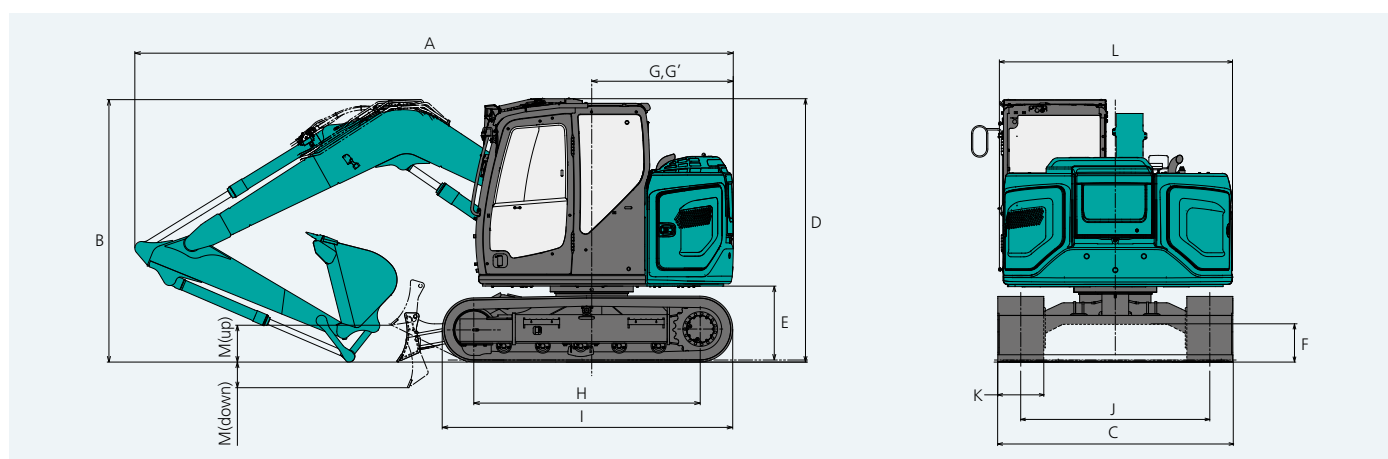
Dimensions

Unit: mm

Arm length	1.71 m	2.13 m
A Overall length	5,840	6,370
B Overall height (to top of boom)	2,560	2,540
C Overall width	2,300**	
D Overall height (to top of cab)	2,570	
E Ground clearance of rear end*	720	
F Ground clearance*	320	
G Tail swing radius (add on counter weight)	1,380 (1,470)	

G'	Distance from centre of swing to rear end	1,380
H	Tumbler distance	2,210
I	Overall length of crawler	2,830
J	Track gauge	1,850
K	Shoe	450
L	Overall width of upperstructure	2,300
M	Dozer blade (up / down)	360/250

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

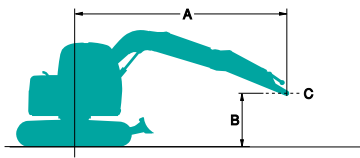


Operating weight & ground pressure

In standard trim, with standard boom, 1.71 m arm, and 0.28 m³ ISO heaped bucket

Shaped		Triple grouser shoes (even height)		Rubber shoes
Shoe width	mm	600		450
Overall width of crawler	mm	2,450		2,300
Ground pressure	kPa	27		35
Operating weight	kg	8,160		7,770

Lift capacities



Rating over front



Rating over side or 360 degrees

A: Reach from swing centreline to arm top
B: Arm top height above/below ground
C: Lift point
Bucket: Without bucket
Relief valve setting: 29.4 MPa {300 kgf/cm²}

SK75SR		Arm: 1.71 m Bucket: Without Counterweight: 700 kg Shoe: 450 mm Dozer: Blade up							
B	A	1.5 m		3.0 m		4.5 m		At max. reach	
6.0 m	kg							*2,350	*2,350
4.5 m	kg			*2,410	*2,410			1,820	1,560
3.0 m	kg			*2,920	2,810	1,730	1,480	1,370	1,170
1.5 m	kg			3,060	2,510	1,640	1,390	1,220	1,050
G.L.	kg			2,900	2,370	1,570	1,330	1,250	1,070
-1.5 m	kg	*3,840	*3,840	2,900	2,360	1,560	1,320	1,510	1,280
-3.0 m	kg			*1,340	*1,340			*1,150	*1,150

SK75SR		Arm: 2.13 m Bucket: Without Counterweight: 700 kg Shoe: 450 mm Dozer: Blade up							
B	A	1.5 m		3.0 m		4.5 m		At max. reach	
6.0 m	kg			*2,240	*2,240			*1,930	*1,930
4.5 m	kg			*2,120	*2,120	1,790	1,540	1,530	1,310
3.0 m	kg			*2,640	*2,640	1,740	1,490	1,200	1,030
1.5 m	kg			3,100	2,540	1,630	1,390	1,080	930
G.L.	kg			2,880	2,340	1,540	1,300	1,100	930
-1.5 m	kg	*3,240	*3,240	2,830	2,300	1,520	1,280	1,280	1,080
-3.0 m	kg	*2,700	*2,700	*1,940	*1,940			*1,310	*1,310

SK75SR		Arm: 2.13 m Bucket: Without Counterweight: 700 kg+300 kg Shoe: 450 mm Dozer: Blade up								
B	A	1.5 m		3.0 m		4.5 m		At max. reach		Radius
										
6.0 m	kg			*2,240	*2,240			*1,930	*1,930	3.47 m
4.5 m	kg			*2,120	*2,120	*1,940	1,690	*1,600	1,450	4.90 m
3.0 m	kg			*2,640	*2,640	1,910	1,640	1,330	1,140	5.60 m
1.5 m	kg			*3,400	2,810	1,800	1,540	1,200	1,030	5.84 m
G.L.	kg			3,190	2,600	1,720	1,450	1,220	1,050	5.68 m
-1.5 m	kg	*3,240	*3,240	3,140	2,560	1,690	1,430	1,420	1,210	5.09 m
-3.0 m	kg	*2,700	*2,700	*1,940	*1,940			*1,310	*1,310	3.87 m

SK75SR		Arm: 2.13 m Bucket: Without Counterweight: 1,050 kg Shoe: 450 mm Dozer: Blade up								
B	A	1.5 m		3.0 m		4.5 m		At max. reach		Radius
										
6.0 m	kg			*2,240	*2,240			*1,930	*1,930	3.47 m
4.5 m	kg			*2,120	*2,120	*1,940	1,690	*1,600	1,450	4.90 m
3.0 m	kg			*2,640	*2,640	1,910	1,640	1,330	1,140	5.60 m
1.5 m	kg			*3,400	2,810	1,810	1,540	1,210	1,040	5.84 m
G.L.	kg			3,200	2,610	1,720	1,460	1,230	1,050	5.68 m
-1.5 m	kg	*3,240	*3,240	3,150	2,570	1,690	1,430	1,430	1,220	5.09 m
-3.0 m	kg	*2,700	*2,700	*1,940	*1,940			*1,310	*1,310	3.87 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.

STANDARD EQUIPMENT

ENGINE

- Engine, YANMAR 4TNV98CT, Diesel engine with turbocharger and intercooler, Tier IV certified
- Auto Idle Stop
- Automatic engine deceleration
- Batteries (2 x 12 V - 64 Ah)
- Starting motor (24 V - 3.5 kW), 50 amp alternator
- Engine oil pan drain cock
- Double element air cleaner

CONTROL

- Working mode selector (H-mode, S-mode and ECO-mode)
- Rotating & N&B piping (proportional hand controlled)

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
- Dozer Blade

MIRRORS, LIGHTS & CAMERAS

- Rear view mirror, Eagle-eye view camera (Rear, Right, Left)
- 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 windshield 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
- Automatic air conditioner
- Emergency escape hammer
- Radio (AUX & USB & Bluetooth®)
- 12 V converter
- Hands-free telephone
- Multi control valve
- Travel alarm
- GEOSCAN
- Large footrest
- Front roll screen

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
- Floating dozer
- N&B piping (proportional hand controlled)
- Quick hitch piping
- Heavier counterweight (+350 kg)
- Additional track guide

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.

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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