

SPECIFICATIONS

Model			SK135SR Offset Boom Specification
Performance			
Bucket Capacity	ISO heaped	m³	0.5
	Struck	m³	0.35
Swing Speed	min ⁻¹ (rpm)		11.5 {11.5}
Travel Speed	km/h		5.6/3.4
Gradeability	% {°}		70 {35}
Bucket Digging Force	kN {kgf}		87.3 {8,900}
Arm Crowding Force	kN {kgf}		61.9 {6,310}
Drawbar Pulling Force	kN {kgf}		139 {14,100 } (ISO 7464)
Weight			
Operating Weight	kg		15,200 (with dozer)
Ground Pressure	kPa (kgf/cm²)		47.4 {0.49}
Shoe Width	mm		500
Engine			
Model			MITSUBISHI D04FR
Type			Direct injection, water cooled, 4-cycle, 4cylinder diesel engine with turbocharger, intercooler
Rated Power Output	74 kW/2,000 min ⁻¹ (ISO14396: 2002)*		
	69.2 kW/2,000 min ⁻¹ (ISO9249: 2007)		
	375 N m/1,600 min ⁻¹ (ISO14396: 2002)*		
Max. Torque	359 N m/1,600 min ⁻¹ (ISO9249: 2007)		
	200		
Fuel Tank	L		
Blade			
Width x Height	mm		2,490 x 575
Working Range (Height/Depth)	mm		490/535
Side Digging Mechanism			
Type			Boom swing
Offset Volume	To the left	mm	1,170
	To the right	mm	1,180
Hydraulic System			
Pump	Two variable displacement pumps + 2 gear pump		
Swing Motor	Axial piston motor		
Travel Motors	2 x axial piston, two-step motor		
Hydraulic Oil Tank	L		140: System (98.5: Tank level)

*ISO14396 meets EU regulation

STANDARD EQUIPMENT

- ENGINE
- Engine, MITSUBISHI D04FR-74kW, Diesel engine with turbocharger and intercooler
 - Automatic engine deceleration
 - Auto Idle Stop (AIS)
 - Batteries (2 x 12V - 80Ah)
 - Starting motor (24V - 5 kW), 50 amp alternator
 - Automatic engine low idle for low engine oil pressure
 - Engine oil pan drain cock
 - Double element air cleaner

CONTROL

- Working mode selector (H-mode, S-mode)

SWING SYSTEM & TRAVEL SYSTEM

- Swing rebound prevention system
- Straight propel system
- Two-speed travel with automatic shift down
- Sealed & lubricated track links
- Grease-type track adjusters
- Automatic swing brake

MIRRORS & LIGHTS

- Four rearview mirrors
- Two front working lights

OPTIONAL EQUIPMENT

- Dozer blade
- Various optional arms
- Wide range of shoes
- Boom safety valve
- Arm safety valve
- Front-guard protective structures (May interfere with bucket action)
- Additional hydraulic circuit
- Add-on counterweight
- Cab light
- Control pattern changer (2 way, 4 way)

Note: Standard and optional equipment may vary. Consult your KOBELCO dealer for specifics.

Note: This catalog 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 catalog may be reproduced in any manner without notice.

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SK135SR
Offset Boom Specification

- Bucket Capacity:
0.38, 0.50 m³ ISO heaped
- Engine Power:
74 kW {100 PS}/2,000 min⁻¹{rpm}
(ISO14396)
- Operating Weight: (with dozer)
15,200 kg

Complies with the latest exhaust emission regulations



US
EPA Tier III



EU (NRMM)
Stage IIIA



Japanese
Regulations

That's KOBELCO!
Your First Choice

Comfort and Safety Support Smooth Operation

Newly Designed ‘Big Cab’

The new ‘Big Cab’ provides the same roomy operating space as the cabs installed on full-sized machines. There’s plenty of legroom, and the door opens wide for easy entry and exit. The wide, open view in front clears ISO standards by a large margin.



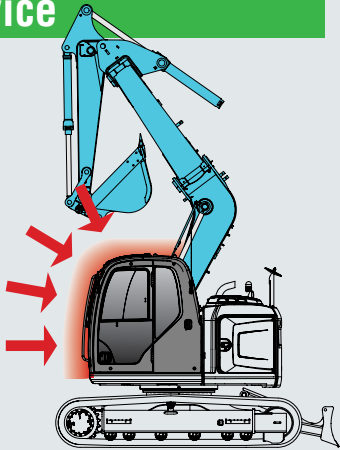
- Plenty of front-to-back legroom
- Independently adjustable offset pedal and foot rest
- Large travel pedal
- New reclining seat can be lowered well down to the back

Comfortable Operating Environment



Cab Protection Device

When digging with the boom raised high, this automatic shutdown function prevents the bucket from damaging the cab through a mechanism that brings the attachment to a smooth, gradual stop.



- Wide cab width of 1,000 mm
- Reinforced green glass windows meet European standards.
- “Rise-up” wipers ensure unobstructed view.



- Two handrail mirrors, a cab mirror, and a rear mirror on the counterweight provide excellent visibility.

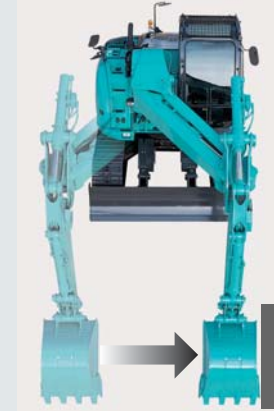
Low In-Cab Noise and Vibration

The iNDr cooling system keeps operation quiet inside the cab. The rigid cab structure, viscous cab mounts, and strategically placed lower rollers on the crawlers minimize vibration for added comfort.

Many Safety Features



Work Range Limiter



This feature prevents damage to walls, beams and buried structures by limiting the depth, height, and left-handed offset value reached by the attachment. It both prevents unwanted contact with external objects and facilitates side-wall digging and other repetitive operations.

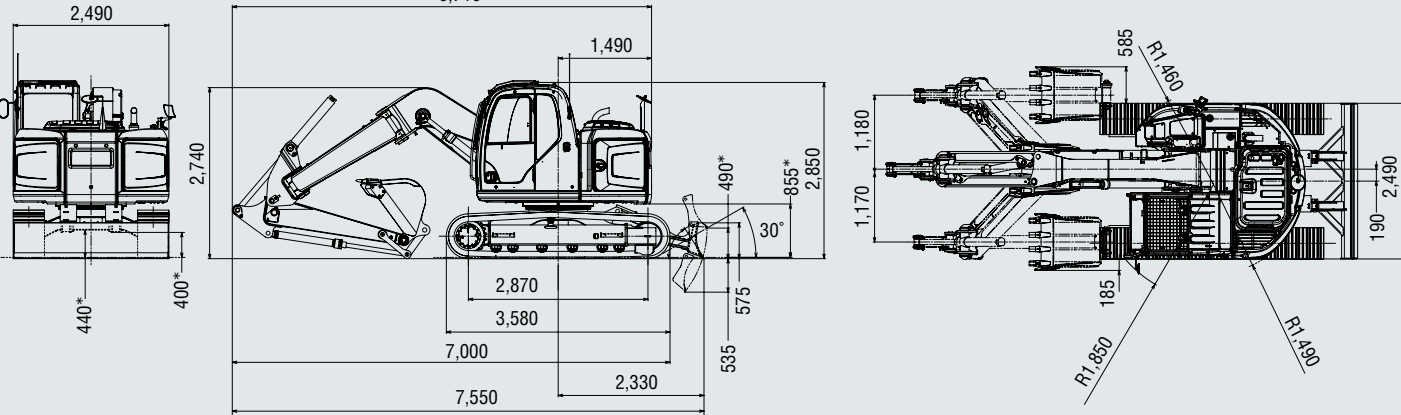
- The operator can set operational limitations and positional information for the bucket when engaged in side-wall digging.

SK135SR

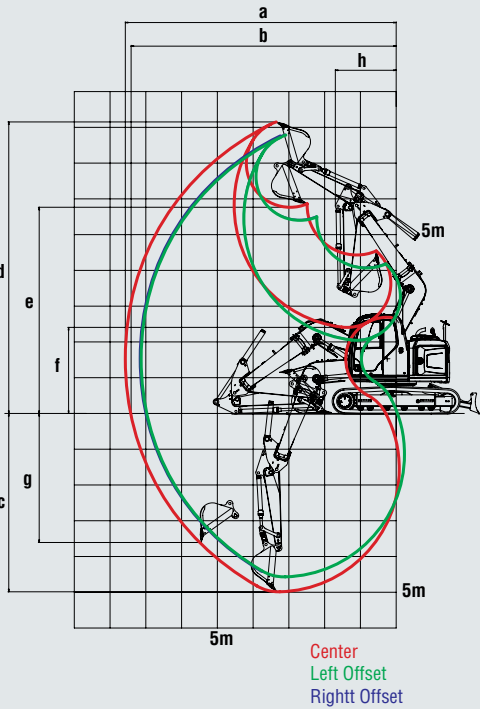
DIMENSIONS

Standard Arm: 2.2 m Bucket: 0.50 m³ *without including height of shoe lug.

Unit: mm



WORKING RANGE



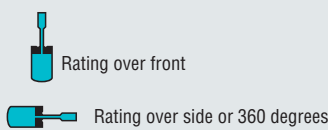
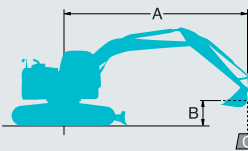
Boom Arm Offset	Offset Boom Specification					
	Standard: 2.20 m			Long: 2.50 m		
	Max. Left	Center	Max. Right	Max. Left	Center	Max. Right
a- Max. digging reach	7.15	7.57	7.14	7.41	7.83	7.40
b- Max. digging reach at ground level	6.98	7.41	6.97	7.25	7.68	7.23
c- Max. digging depth	4.58	4.99	4.57	4.88	5.29	4.87
d- Max. digging height	7.81	8.15	7.80	7.97	8.32	7.96
e- Max. dumping clearance	5.42	5.77	5.41	5.59	5.93	5.57
f- Min. dumping clearance	2.07	2.41	2.05	1.78	2.12	1.77
g- Max. vertical wall digging depth	3.25	3.61	3.24	3.60	3.96	3.58
h- Min. swing radius	1.44	1.70	1.43	1.51	1.76	1.50
Bucket capacity ISO heaped m³	0.5			0.38		

Operating Weight & Ground Pressure











Standard Configuration		Triple grouser shoes (even height)		
Shaped		500	600	700
Shoe width	mm	500	600	700
Overall width of crawler	mm	2,490	2,590	2,690
Ground pressure	kPa {kgf/cm²}	43 {0.44}	37 {0.38}	32 {0.33}
Operating weight	kg	13,800	14,000	14,200

Optional Configuration		15,200	15,400	15,600
Operating weight with offset boom and dozer	kg	15,200	15,400	15,600
Ground pressure with offset boom and dozer	kPa {kgf/cm²}	47.4{0.49}	40.7 {0.42}	35.1 {0.36}

LIFTING CAPACITIES



- A - Reach from swing centerline to bucket hook
- B - Bucket hook height above/below ground
- C - Lifting capacities in kilograms
- Max. discharge pressure: 29.4 MPa (300 kg/cm²)

SK135SR		Offset Boom Arm: 2.2 m Bucket: 0.50 m³ ISO heaped 390 kg Shoe: 500 mm Counterweight: 3.4 t with Dozer										
A		1.5 m		3.0 m		4.5 m		6.0 m		At max. reach		Radius
												
B												
6.0 m	kg									*1,990	*1,990	4.42 m
4.5 m	kg					*3,170	*3,170			*1,960	*1,960	5.58 m
3.0 m	kg			*5,280	*5,280	*3,790	3,100	2,770	1,840	*2,140	1,730	6.17 m
1.5 m	kg			*7,440	5,090	4,250	2,740	2,620	1,690	2,370	1,530	6.34 m
G.L.	kg	*3,880	*3,880	7,970	4,580	3,940	2,470	2,490	1,570	2,390	1,510	6.15 m
-1.5 m	kg	*5,900	*5,900	*7,690	4,510	3,830	2,370			2,770	1,730	5.53 m
-3.0 m	kg	*8,900	*8,900	*6,180	4,680					4,190	2,600	4.31 m

Notes:

- 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.
- 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.
- Bucket lift hook defined as lift point.
- The above lifting capacities are in compliance with SAE J/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.
- 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.
- Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.