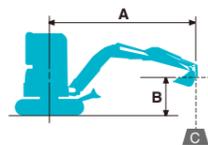


LIFTING CAPACITIES



Rating over front



A: Reach from swing centerline to bucket hook
 B: Bucket hook height above/below ground
 C: lifting capacities in kilograms
 Shoe: Rubber shoe Dozer blade: Up
 Relief valve setting: 23.0 MPa

SK27SR

SK27SR		Arm: 1.12 m, Bucket: 0.08 m ³ ISO heaped Rubber shoe: 250 mm							
		1.0 m		2.0 m		3.0 m		4.0 m	
A									
B									
3.0 m	kg					*410	*410		
2.0 m	kg					*470	450		
1.0 m	kg			*1,090	770	560	420	350	260
G. L.	kg			1,040	730	530	390		
-1.0 m	kg	*1,620	*1,620	1,050	740	530	390		
-2.0 m	kg			*550	*550				

SK30SR

SK30SR		Arm: 1.18 m, Bucket: 0.09 m ³ ISO heaped Rubber shoe: 300 mm							
		1.0 m		2.0 m		3.0 m		4.0 m	
A									
B									
2.0 m	kg							370	310
1.0 m	kg			1,080	880	570	480	350	300
G. L.	kg	*1,170	*1,170	1,040	840	540	450	340	280
-1.0 m	kg	*1,810	*1,810	1,050	850	530	440		
-2.0 m	kg			1,100	900				

SK35SR

SK35SR		Arm: 1.32 m, Bucket: 0.11 m ³ ISO heaped Rubber shoe: 300 mm							
		1.0 m		2.0 m		3.0 m		4.0 m	
A									
B									
3.0 m	kg							*550	490
2.0 m	kg							550	480
1.0 m	kg			*1,360	1,300	820	710	520	450
G. L.	kg			1,540	1,270	780	670	500	430
-1.0 m	kg	*1,820	*1,820	1,550	1,280	780	660		
-2.0 m	kg	*2,590	*2,590	*1,430	1,320				

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 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.

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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KOBELCO is the corporate mark used by Kobe Steel on a variety of products and in the names of a number of Kobe Steel Group companies.

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KOBELCO

MINI EXCAVATORS

SR-5 Series

SK27SR SK30SR SK35SR



We Save You Fuel
 achieving a Low-Carbon Society

An Evolutionary Leap: The Ultra-Compact Yet Tough SR-5 Series

Mini excavators are the machine of choice for small jobs where space is limited, like garden construction and pipe laying. In addition to their minimized tail swing radius, minis have also developed excellent performance characteristics and maneuverability that have broadened their usefulness for many different types of jobs.

Now KOBELCO has taken the next evolutionary step by packing even more digging power and practical performance features into the new SR-5 Series while maintaining zero tail swing. No matter what the operation—digging, swinging, loading or dozing—these machines deliver unprecedented performance that will be profitable for owners while fully satisfying the most demanding operator. The SR-5 Series offers further refinement of the reliable mechanisms that have earned KOBELCO a reputation for excellence around the world. But that's not all. Our engineers have also kept the environment in mind when developing their designs, ensuring that the SR-5 machines clear all of the latest exhaust-gas regulations. Thanks to KOBELCO, mini excavators have just taken an evolutionary leap forward, with more powerful performance packed into less space than ever before.



1 Ample Performance: Capacity, Power and Speed

Operability, ability to work well in small spaces, excellent side-ditch digging performance

2 Profitable Operation

Zero swing radius means safe operation to the rear, minimizing repair costs and allowing the operator to concentrate efficiently on the job at hand

3 Highly Reliable Construction

Construction that supports high-level performance

4 Easy Maintenance

Quick and easy daily machine care

5 Comfortable Work Environment

Long hours of operation without fatigue

Fast, Full-Powered Digging and Leveling

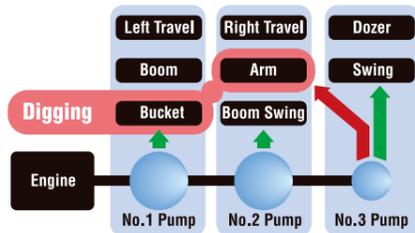
Powerful Digging Performance

The SR-5 mini excavators are built for hard work. Thanks to IFPS (Integrated-Flow Pump System) and a large-capacity engine, the hydraulic flow is more efficient than ever before, with a sensitive responsiveness that reduces cycle times. This combination of tough power and speed greatly increases hourly digging capacity.



Integrated-Flow Pump System (Three Pumps)

The instant the machine begins to dig, extra output from the third pump (which otherwise powers the swing and dozer circuit) is directed to the arm circuit for added power. This ensures fast and smooth arm operation even under heavy loads.



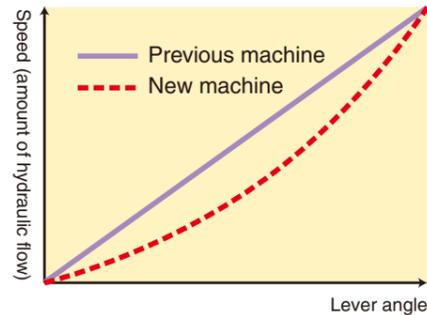
Large-Capacity Engine

The large-capacity engine meets Tier III requirements and packs plenty of power for outstanding hydraulic performance.

Smooth, Precise Lever Control

The control valves are carefully adjusted to precisely regulate hydraulic flow when the attachment and other systems begin moving, providing the operator with smooth, pinpoint control.

Attachment lever touch



Powerful and Efficient Dozer Performance

Dozer operations are an indispensable part of pipe laying, ditch digging, and other jobs that require leveling, compacting and refilling. To meet this need, the SR-5 mini excavators combine a powerful travel system with a highly efficient dozer blade that moves earth with less waste. The result: more work completed in less time.



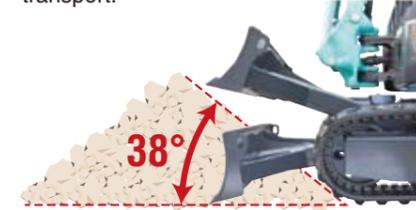
New Dozer-Blade Shape

KOBELCO's unique blade design solves this problem by forming the earth into an arc that always falls forward. Because this prevents earth from falling behind the blade, only "one pass" is needed. (Patent pending)



Maximum Approach Angle of 38°

The dozer blade can be raised much higher than before. With a maximum approach angle 38°, it's easy to ride the machine up over mounds of earth, or to load the machine onto a truck for transport.



Optimized Bucket/Blade Positioning

The distance between the bucket and dozer blade has been minimized to make surface sweeping more convenient.



Hydraulic Pilot-Controlled Dozer Operation Lever



The dozer lever features hydraulic pilot control for precise handling.

More Travel Power

Larger-capacity travel motors provide more travel torque resulting in powerful travel.

Automatic Two-Speed Travel

An automatic shift function ensures smoother, more efficient travel on the worksite. The large capacity travel torque enables the machine to perform spin turn in low mode even when the dozer is pushing a heavy load.



The travel lever is fitted with a button for easy switching to Hi-Mode travel.

Optional Steel Shoes/Rubber-padded Shoes

The steel shoes have holes that hold specially designed rubber pads to protect the road surface.



Steel shoes



Rubber-padded shoes

Excellent Stability

The front crawler idlers have been adjusted to increase the area of contact between the crawler shoes and the ground. This reduces vibration when traveling.

Reduced vibration when traveling



Zero tail Swing and Excellent Side-Ditch Digging

Excellent Safety and Operating Efficiency

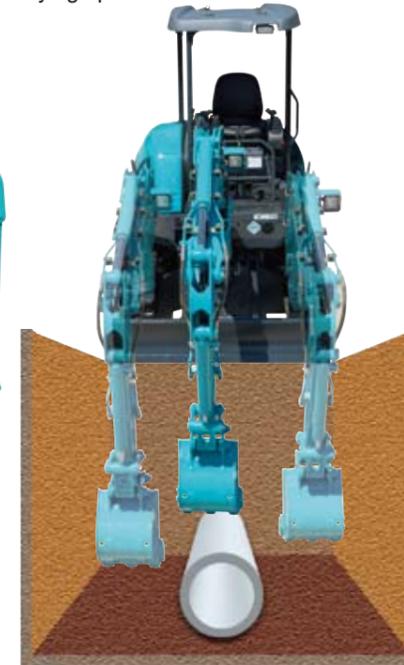
The zero tail swing means that the operator doesn't have to worry about the rear of the machine when swinging. He can concentrate instead on the job in front of him, which increases performance efficiency.

Tail overhang: 0 mm*



Boom Offset Function

The boom offset function makes it possible to do parallel digging without moving the undercarriage, resulting in precise and safe ditch digging and pipe laying operations.



Small Operating Footprint

The combination of the side-ditch digging function and zero tail radius makes it easy to dig next to walls, with a compact operating footprint that makes digging, swinging and dumping possible in very limited spaces.



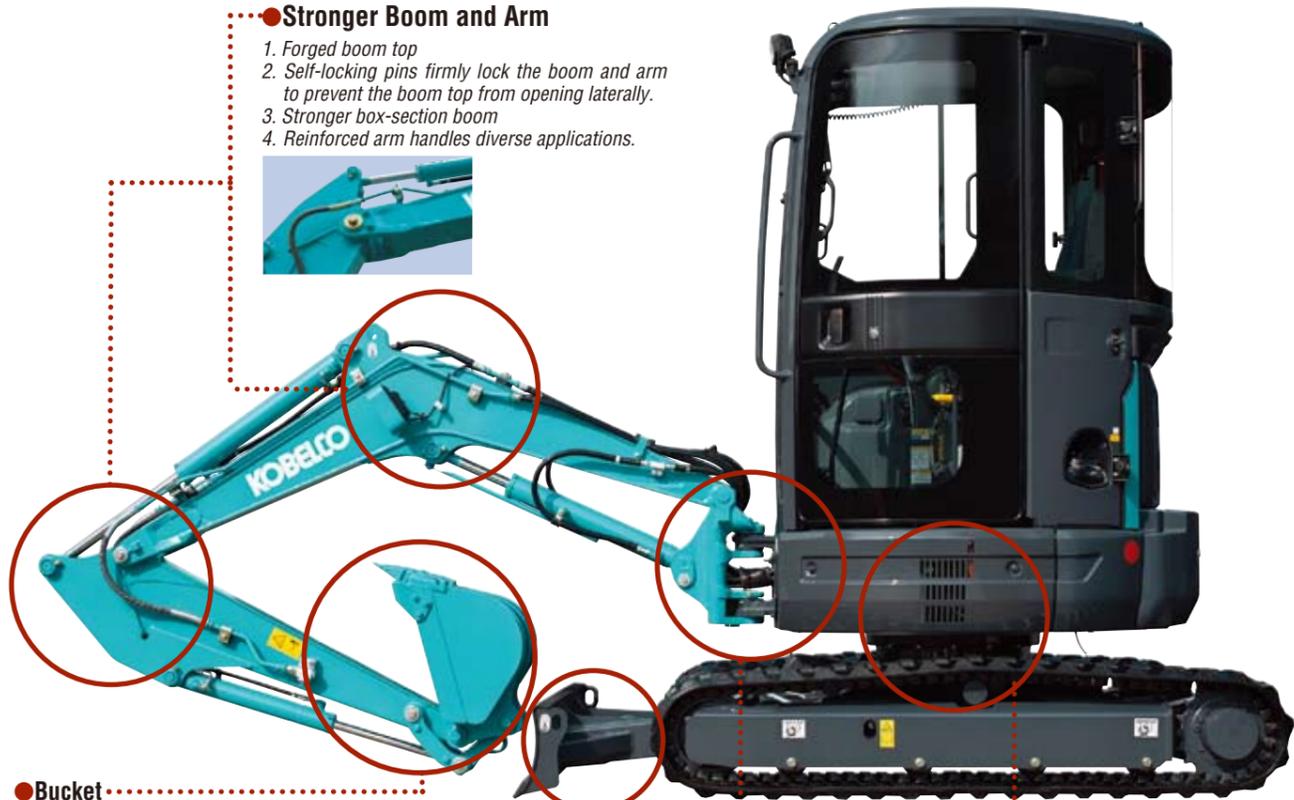
Exceptional Endurance

Highly Reliable Construction

The boom, arm and swing bracket all have large cross-section areas that provide added strength to the attachment. This mechanical strength is complemented by a high-strength power line and enhanced cooling function for even more solid power.

Stronger Boom and Arm

1. Forged boom top
2. Self-locking pins firmly lock the boom and arm to prevent the boom top from opening laterally.
3. Stronger box-section boom
4. Reinforced arm handles diverse applications.



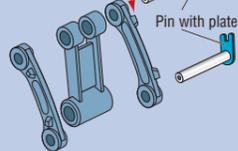
Bucket

1. Cast idler links provide greater strength.
2. The bucket's hydraulic piping passes through the arm bracket for added protection.

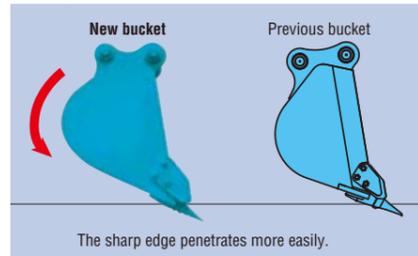


3. Plate pins prevent idler-pin rotation.

The plate engages with the idler boss to prevent the pin rotating.



4. Newly shaped bucket



Dozer

1. Increased torsional strength in dozer arms
2. Dozer's hydraulic piping is easily replaced
3. Dozer cylinder cover



Swing Bracket

1. Large, thick cast-iron swing bracket
2. Plate-type pin prevents unwanted rotation



Reinforced Lower Structure



Outstanding Cooling Performance

The high-performance, high-capacity radiator and oil cooler, coupled with larger engine-oil capacity, deliver a heat balance that's comparable to a full-size machine.



Highly Reliable Power Plant

The size of many of the engine components has been increased for improved reliability, including: a large battery, large-capacity radiator, large-capacity oil cooler, and increased starter-motor and alternator capacities.

Large-Size Components

1. Breather prevents malfunctions in hydraulic components.
2. Large battery and large-capacity radiator
3. Large-capacity oil cooler
4. Increased starter-motor capacity
5. Increased alternator capacity

Easy Maintenance

Easy Daily Maintenance

Start-up checks are essential for safe and reliable machine operation. With the SR-5 machines, all start-up checks can be performed at ground level, with an easy-to-understand layout and cover design that simplify access and reduce check times.



Routine Maintenance

Ground-level start-up checks

- 1 Hour meter can be checked from the ground.
- 2 Fuel tank can be filled from the ground.
 - Resin fuel tank resists rust and is removable for easy cleaning.
- 3 Right cover has small window that makes N&B selection easily.



Hour meter can be checked from the ground.

Fuel tank can be filled from the ground. Resin fuel tank resists rust and is removable for easy cleaning.

Right cover has small window that makes N&B selection easily.

A compartment cover under the seat provides easy access to electrical components.

Wider opening cover provides easy access to valves.

Air filter can be easily changed.



Easy Cleaning



Radiator is easy to clean.

Two-piece floor mats for easy washing.

The floor plate has no projections, making it easy to wash down and wipe dry.

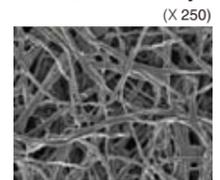
No tools needed for fuel-tank drain cock.



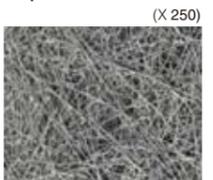
Quick drain for engine oil provided as standard.

Exclusive Super-Fine Filter

This exclusive super-fine filter is environmentally friendly, lasts 1,000 hours, and is easy to replace.



Conventional filter



Super fine filter

Comfortable Work Environment

Spacious Work Environment

Broader floor space and a greater sliding range for the seat give operators plenty of foot room. Wide operational space is provided with more room between the left and right control consoles.



Photo includes optional wrist rests.

Easy Access

A wide-opening door and a left-hand control box with safety lever that rises higher than before, make it much easier for operators to enter and exit the cab.

Wide Cab Entryway

1. Wider door opening
2. Front-window link does not obstruct cab entryway
3. Large, sturdy door handle



door handle

The Most Foot Room in Its Class

The seat has ample space for sliding forward and back.

Visibility

Wider front window ensures an open, panoramic view.



Work Lights



Work lights have been added on both sides to provide a clear view during nighttime operations.

Control Lever

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



Operator Safety

Newly Developed ROPS Cab

Deformed pipe is used in the cab frame to increase rigidity, resulting in a 50% increase in durability and service life.



Exclusive, Newly Designed TOPS/FOPS Canopy

The newly designed three-support TOPS/FOPS canopy ensures easy access, and provides an open view of digging operations when swinging.



Note: Specifications for the cab and canopy differ depending on the region.

Amenities

Levers, instruments, and accoutrements have been laid out with a priority placed on ease of use, straightforward access, ergonomic positioning, and clear visibility.



Monitor display panel set at an easy-to-read angle
Storage compartment for personal items



Front window features gas damper cylinders for smooth and easy opening.



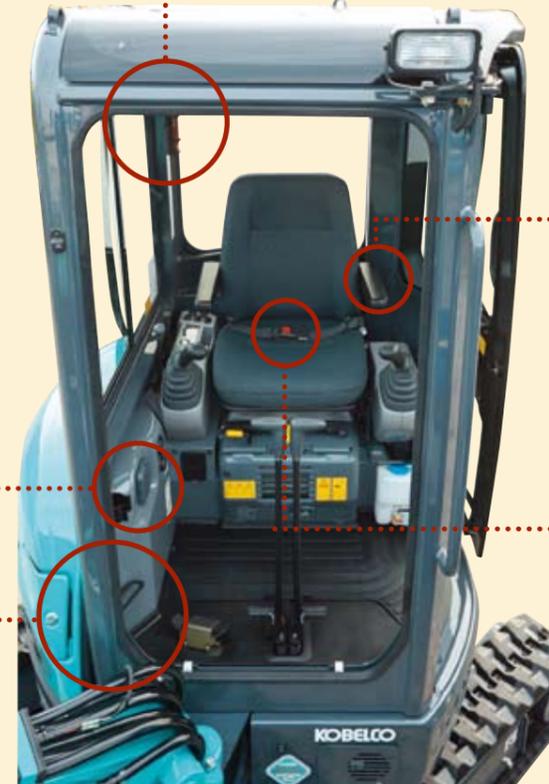
Easy-access, easy-turn ignition with rubber boots for protection against moisture and freezing



Cup holder



Easy-access grease-gun holder



Room light, coat hook and safety hammer



Standard arm rest



Seat belt

SPECIFICATIONS

MODEL		SK27SR	SK30SR	SK35SR		
Type		SK27SR-5	SK30SR-5	SK35SR-5		
Machine Mass	Cab	kg	2,630	3,340	3,720	
	Canopy	kg	2,490	3,200	3,580	
Bucket Capacity		m ³	0.08	0.09	0.11	
Bucket Width (with Side Cutter)		mm	500	500	600	
Arm Length		m	1.12	1.18	1.32	
Bucket Digging Force		kN (kgf)	22 (2,240)	27.4 (2,790)	27.4 (2,790)	
Arm Crowding Force		kN (kgf)	14.8 (1,510)	17.2 (1,760)	18.7 (1,910)	
ENGINE						
Model		YANMAR 3TNV82A	YANMAR 3TNV88			
Type		Water cooled, 4-cylce, 3-cylinder, direct injection, diesel engine				
Power Output		kW/min ⁻¹ {PS/rpm} (ISO14396:2002) (ISO-9249:2007)	16.6/2,200 (22.5/2,200) 15.9/2,200 (21.6/2,200)	22.5/2,400 (30.6/2,400) 21.2/2,400 (28.8/2,400)		
Max. Torque		N.m/min ⁻¹ (ISO14396:2002) (ISO-9249:2007)	81.1/1,320 79/1,320	99.8/1,440 98.0/1,440		
Displacement		L	1.33	1.642		
Fuel Tank		L	28	38		
HYDRAULIC SYSTEM						
Pump		Two variable displacement pumps + one gear pump				
Max. Discharge Flow		L/min	2 x 26.4	2 x 38.4		
Relief Valve Setting		MPa (kgf/cm ²)	23.0 (235)			
Hydraulic Oil Tank (system)		L	20 (25)	38 (48)		
TRAVEL SYSTEM						
Travel Motors		2 x axial-piston, two-step motors				
Travel Brake		Hydraulic motor per motor				
Parking Brake		Oil disc brake per motor				
Travel Speed (high/low)		km/h	4.1/2.3	4.5/2.5		
Drawbar Pulling Force		kN (kgf)	28.2	38.3	28.1	
CRAWLER						
Shoe Width		mm	250	300		
Ground Pressure	Cab	kPa (kgf/cm ²)	30.0 (0.31)	28.0 (0.29)	33.0 (0.34)	
	Canopy	kPa (kgf/cm ²)	28.0 (0.29)	27.0 (0.28)	32.0 (0.33)	
DOZER BLADE						
Width x Height		mm	1,500 x 300	1,550 x 345	1,700 x 345	
Working Ranges (height/depth)		mm	445/335	560/410	540/560	
SWING SYSTEM						
Swing Motor		Axial piston motor				
Swing Brake		Hudraulic brake				
Parking Brake		Oil disc brake				
Swing Speed		min ⁻¹ (rpm)	8.7 (8.7)	8.9 (8.9)		
Tail Swing Radius		mm	750	775	850	
Min. Front Swing Radius	Over the front	Cab	mm	2,060	2,480	2,560
		Canopy	mm	1,830	1,920	2,040
	At full boom swing	Cab	mm	1,780	2,100	2,170
		Canopy	mm	1,570	1,590	1,690
SIDE DIGGING MECHANISM						
Type		Boom swing				
Offset Angle	To the left	degree	60	70	70	
	To the right	degree	55	60	60	

WORKING RANGES & DIMENSIONS

