

























SK135SR		Long Arm: 2.84 m Bucket: 0.38 m³ ISO heaped 320 kg Shoe: 500 mm Counterweight: 3.4 t												
A		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius
														
B														
7.5 m	kg					*1,840	*1,840					*1,500	*1,500	4.69 m
6.0 m	kg					*2,570	*2,570	*1,680	*1,680			*1,250	*1,250	6.19 m
4.5 m	kg					*2,870	*2,870	*2,750	1,930			*1,180	*1,180	7.06 m
3.0 m	kg			*4,890	*4,890	*3,630	3,010	2,860	1,820	*1,310	1,170	*1,200	1,160	7.53 m
1.5 m	kg			*7,390	5,120	4,370	2,710	2,720	1,690	1,860	1,120	*1,290	1,070	7.67 m
G. L.	kg			*7,400	4,630	4,100	2,470	2,590	1,570	*1,550	1,070	*1,490	1,070	7.51 m
-1.5 m	kg	*4,540	*4,540	8,200	4,520	3,980	2,360	2,530	1,510			*1,870	1,180	7.02 m
-3.0 m	kg	*7,050	*7,050	*7,130	4,590	3,980	2,370	2,550	1,530			2,480	1,490	6.12 m
-4.5 m	kg			*4,740	*4,740	*2,950	2,520					*2,880	2,470	4.55 m

SK135SR		Long Arm: 2.84 m Bucket: 0.38 m³ ISO heaped 320 kg Shoe: 500 mm Counterweight: 4.0 t													
A		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		Radius	
															
B	7.5 m	kg					*1,840	*1,840					*1,500	*1,500	4.69 m
	6.0 m	kg					*2,570	*2,570	*1,680	*1,680			*1,250	*1,250	6.19 m
	4.5 m	kg					*2,870	*2,870	*2,750	2,160			*1,180	*1,180	7.06 m
	3.0 m	kg			*4,890	*4,890	*3,630	3,340	*3,060	2,050	*1,310	*1,310	*1,200	*1,200	7.53 m
	1.5 m	kg			*7,390	5,700	*4,560	3,040	3,000	1,920	*1,910	1,290	*1,290	1,240	7.67 m
	G. L.	kg			*7,400	5,220	4,530	2,800	2,880	1,800	*1,550	1,250	*1,490	1,240	7.51 m
		kg	*4,540	*4,540	*8,270	5,110	4,400	2,690	2,700	1,740			*1,870	1,370	7.02 m
		kg	*7,050	*7,050	*7,130	5,170	4,410	2,700	2,830	1,760			*2,730	1,710	6.12 m
		kg			*4,740	*4,740	*2,950	2,850					*2,880	2,800	4.55 m

Notes:

- Do not attempt to lift or hold any load that is greater than these lifting capacities at their specified lift point radius and heights. Weight of all accessories must be deducted from the above lifting capacities.
- Lifting 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.
- Arm bucket pin, without bucket is 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.
- Lifting capacities apply to only machines as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.

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
- iNDR

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 (Boom, Guard)

CAB & CONTROL

- Two control levers, pilot-operated
- Tow eyes
- Horn, electric
- Integrated left-right slide-type control box
- Ashtray
- Cigarette lighter
- Cab light (interior)
- Coat hook
- Luggage tray
- Large cup holder
- Detachable two-piece floor mat
- 7-way adjustable suspension seat
- Retractable seatbelt
- Headrest
- Handrails
- Intermittent windshield wiper with double-spray washer
- Skylight
- Tinted safety glass
- Pull-type front window and removable lower front window
- Easy-to-read multi-display monitor
- Automatic air conditioner
- Emergency escape hammer

OPTIONAL EQUIPMENT

- Dozer blade
- Wide range of buckets
- 2.09 m short arm
- 2.84 m long arm
- Wide range of shoes
- Cab light
- 2 way piping (Nibbler & Breaker)

- Lower under cover
- Add-on type counterweight (+580 kg)
- Rear view camera & monitor
- Top Guard (FOPS level 2)
- Step extension
- Front guard
- Multi control valve

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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www.kobelco-kenki.co.jp/english\_index.html

Inquiries To:

Hydraulic Excavators

SK135SR

- Bucket Capacity:  
**0.5 m³ ISO heaped**
- Engine Power:  
**74 kW {100 PS} /2,000 min<sup>-1</sup>** (ISO14396)
- Operating Weight:  
**13,800 kg**



# Powerful, Agile and Quiet.



## New Performance Capabilities with a Small Rear Swing

The rounded form says it all: an excavator built with a tiny rear swing for maximum maneuverability. But KOBELCO has taken this concept one step further by seeing just how much digging performance can be packed into a machine. It's not the compact design that matters so much as the performance and functions that are actually used on site. And that's just where the new SR Series really shines, thanks to our NEXT-3E concept. So much so, in fact, that the SK135SR and other members of the series bear the same Acera Geospec name as our line of full-size excavators. Thanks to key iNDR technology, we've realized a whole new level of quiet operation, backed by a next-generation power plant that pushes performance to extraordinary new heights. Nine years after developing groundbreaking machines with tiny rear swings, KOBELCO continues to forge ahead as the leader in the field.

Photo: SK135SR with Japanese spec.

**NEXT-3E**



Pursuing the "Three E's"  
The Perfection of Next-Generation,  
Network Performance

## Enhancement Greater Performance Capacity

- New hydraulic circuitry minimizes pressure loss
- High-efficiency, electronically controlled Common Rail Fuel Injection Engine
- Powerful travel and arm/bucket digging force

## Economy Improved Cost Efficiency

- Advanced power plant that reduces fuel consumption
- Easy maintenance that reduces upkeep costs
- High structural durability and reliability that retain machine value longer

## Environment Features That Go Easy on the Earth

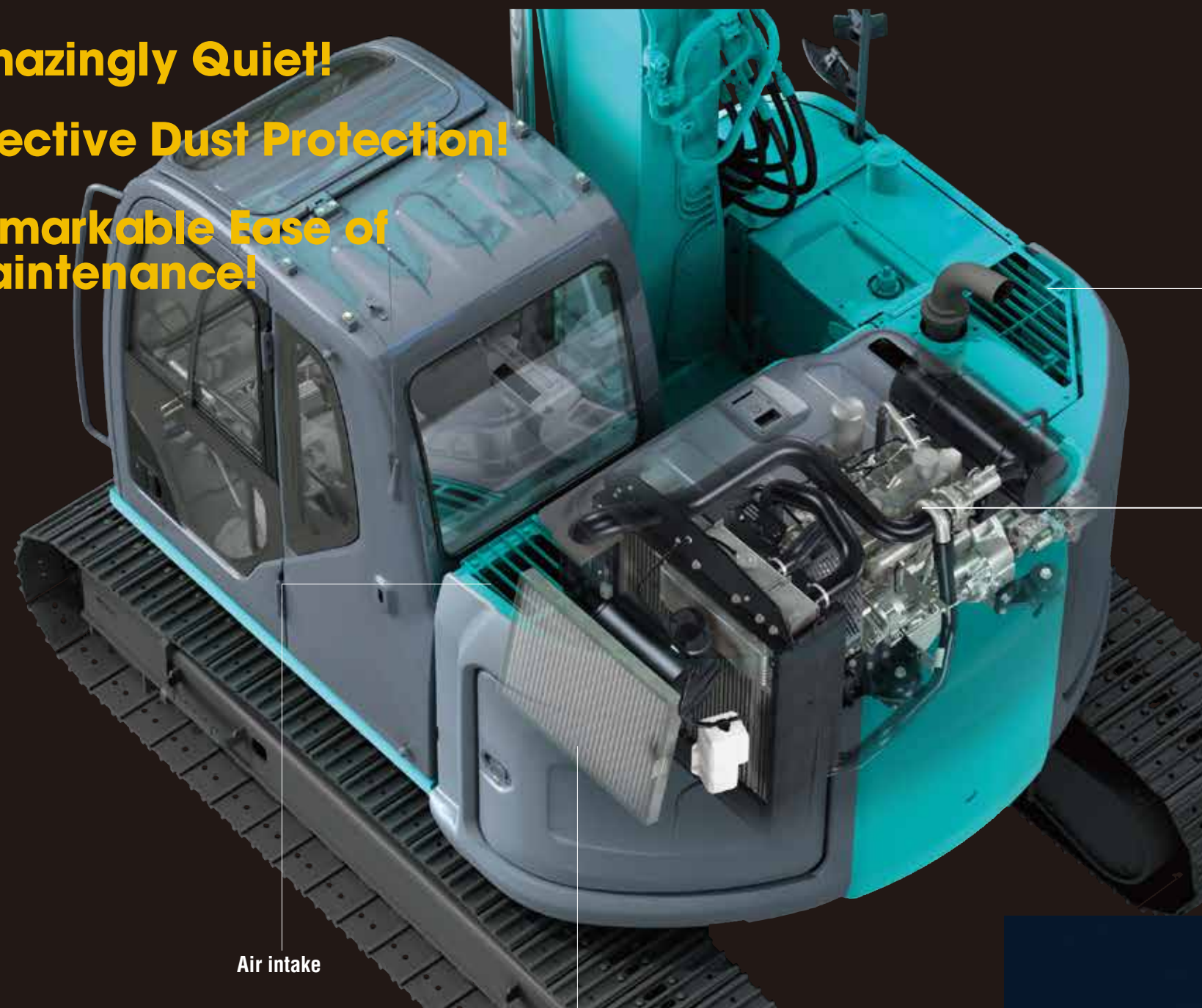
- Newly developed iNDR technology reduces operational noise
- Meets the latest exhaust emissions standards
- Auto Idle Stop as standard equipment



**Amazingly Quiet!**

**Effective Dust Protection!**

**Remarkable Ease of Maintenance!**



Exhaust outlet

Closed-structure engine compartment

\* Not completely sealed

Air intake

iNDR Filter



## The iNDR Revolution



KOBELCO has developed the revolutionary Integrated Noise and Dust Reduction Cooling System, with the engine compartment placed inside a single duct that connects the air intake to the exhaust outlet.



The intake and exhaust are offset, with the holes and joints in the sections corresponding to the duct wall completely covered to reduce noise at the intake and exhaust apertures. This design, plus the generous use of insulation-material inside the duct, minimizes engine noise.



iNDR Filter

Also, iNDR filter in the intake aperture prevents dust from penetrating, which not only ensures a quieter, cleaner engine, but also supports the performance of the cooling unit and enhances ease of maintenance.

## iNDR Filter Improves Operational Reliability



The stainless-steel filter is extremely effective against dust, with a 60-mesh wave-type screen that removes tiny dust particles from the intake air. This not only helps to keep the cooling unit and air cleaner running in top form, but also maintains ideal heat balance.

\* "60-mesh" means that there are 60 holes formed by horizontal and vertical wires in every square inch of filter.

## Cooling Unit Requires No Regular Cleaning




Because the iNDR filter removes dust from the intake air, no dust gets into block the cooling components, so that no regular cleaning is necessary. The filter can be removed easily without tools and is installed in parallel with the intercooler, radiator, and oil cooler for easy access.



More Work with Less Fuel !

**Fuel Consumption and Work Volume**  
Amazing productivity with a max. 8% decrease in fuel consumption per hour and a max. 15% increase in work volume per liter of fuel.

Fuel Consumption and Work Volume (New S-mode)

	Vs Previous model in H-mode	Vs Previous model in S-mode
Fuel Consumption (L/h)	 8% decrease	Almost the same
Work volume per liter of fuel (m³/L)	 15% increase	 4% increase

“Top-Class” Powerful Digging

Max. arm crowding force: **64.4 kN {6.57 tf}**  
Max. bucket digging force: **90.1 kN {9.19 tf}**

Powerful Travel

Travel torque: increased by **9 %**   
Drawbar pulling force: **139 kN {14.2 tf}**

Greater Swing Power, Shorter Cycle Times

Swing torque: increased by **5.0 %**   
Swing torque: **39.9 kN**  
Swing speed: **11.5 min<sup>-1</sup>**

Significant Extension of Continuous Working Hours

The combination of a large-capacity fuel tank and excellent fuel efficiency delivers an impressive max. 19% increase in continuous operation hours.\*

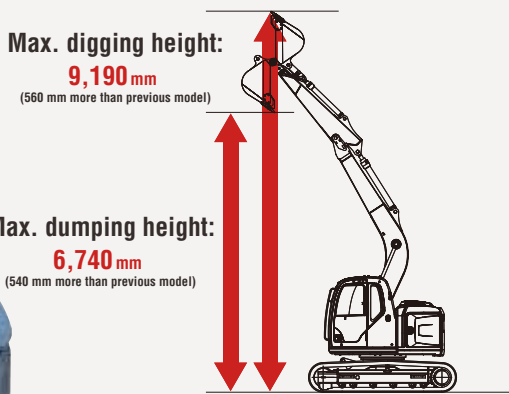


Light Lever Operation

Lighter levers mean less operator fatigue over long hours of operation.

**10 % Less**

Dramatic Increase in Maximum Dumping Height



The bottom of the upper frame features single-plate construction for solid stability, combined with dramatic increases in maximum digging and dumping heights to deliver a wider working range than ever before.

\*Previous model:SK135SR-IES.

New, high-efficiency pump



1 NEXT-3E Technology New Hydraulic System

Rigorous inspections for pressure loss are performed on all components of the hydraulic piping, from the spool of control valve to the connectors. This regimen, combine with the use of a new, high-efficiency pump, cuts energy loss to a minimum.

2 NEXT-3E Technology Next-Generation Electronic Engine Control



The high-pressure, common-rail fuel-injection engine with the multiple injection system features adjustable control to maximize fuel efficiency and provide powerful low-speed torque. The result is a highly fuel-efficient engine.



3 NEXT-3E Technology Total Tuning Through Advanced ITCS Control

The next-generation engine control is governed by a new version of ITCS, which responds quickly to sudden changes in hydraulic load to ensure that the engine runs as efficiently as possible with a minimum of wasted output.

ITCS (Intelligent Total Control System) is an advanced, computerized system that provides comprehensive control of all machine functions.

Simple Select: Two Digging Modes



- H-Mode**  For heavy duty when a higher performance level is required.
- S-Mode**  For normal operations with lower fuel consumption.

**Optional N&B (nibbler and breaker)**  
The operator selects the desired mode from inside the cab, and the selector valve automatically configures the machine accordingly

**Attachment Mode Selector Switch NEW!**  
There's a choice of three different hydraulic circuits, to accommodate bucket, crusher or breaker, and the desired attachment mode can be selected with a switch, which automatically configures the selector valve. All attachment modes can be used in either S-mode or H-mode.

Seamless, Smooth Combined Operations

The machines have inherited the various systems that make inching and combined operations easy and accurate, with further refinements that make a good thing even better. Leveling and other combined operations can be carried out graceful ease.

- Electronic activecontrols system
- Arm regeneration system
- Boom lowering regeneration system
- Variable swing priority system
- Swing rebound prevention system

\* The value shows results from actual measurements taken by KOBELCO continuous operation in S Mode, compared with previous model, SK135SR-IES. Results will vary depending on operating method and load conditions.



## Rugged Durability That Ensures Long-Term Machine Value!

### Durability That Retains Machine Value Five and Ten Years in the Future

- Improved heat resistance in the swing motor, cylinders and other hydraulic components
- New operator's seat covered by durable material

### Double-Element Air Cleaner

The air cleaner that comes standard on the SK135SR has a large capacity and twice the durability of previous cleaners. Also, because it's installed behind the iNDR filter, it offers more reliable and efficient cleaning performance.



### High-Grade Fuel Filter

The SK135SR features a high-performance filter designed specifically for common-rail engine that has 2.9 times more filtering area than previous filters.

### Highly Reliable ITCS

The manufactured quality of the ITCS controller has been further upgraded, with special measures taken to protect against water and dust. Improvements have also been made in the specs of the pressure sensors, as well as anti-noise performance.



Easily repaired bolted handrails

High-quality urethane paint

### Reinforced Crawler Shoes

The diameter of the track link pins has been made a size larger for even greater strength.



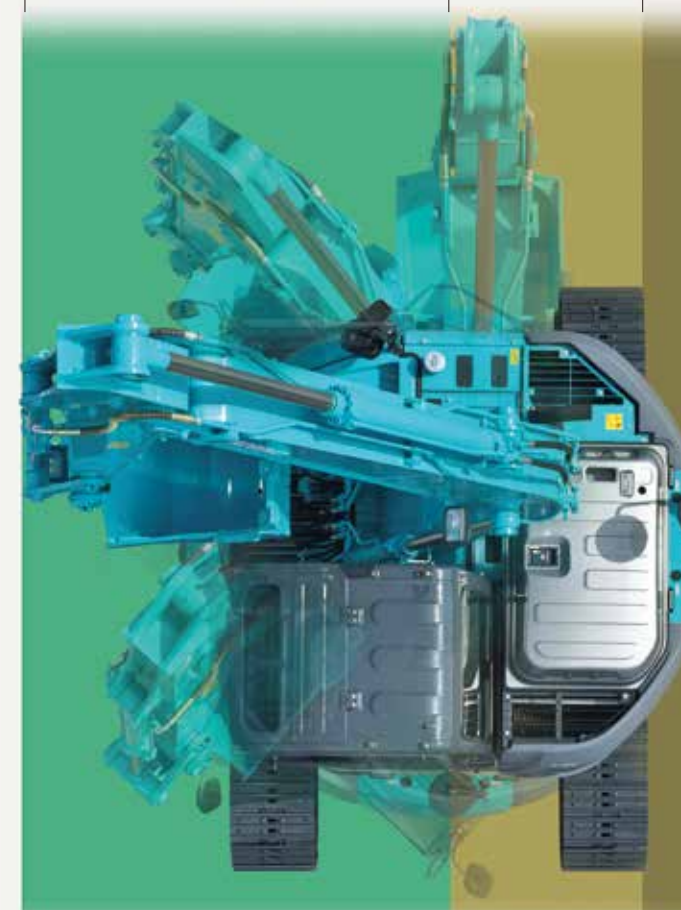
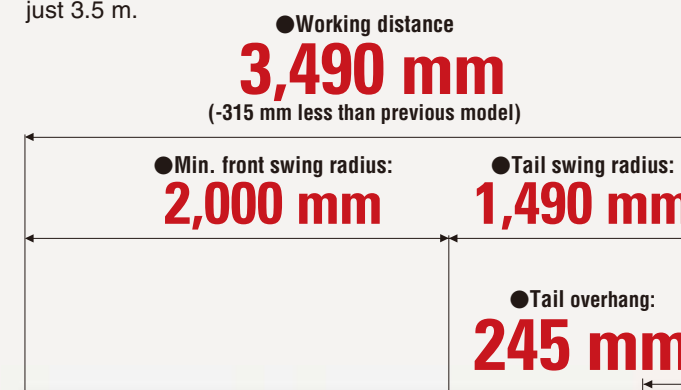
## Designed to Operate Effectively in Close Quarters!

### Watch the Job in Front, Not the Counterbalance

The tail of the upper body extends very little past the back end of the crawlers so that the operator can concentrate on the job at hand instead of worrying about the position of the counterweight. This not only improves operating efficiency but reduces costs associated with collision damage.

### Requires Less Than 3.5 m of Working Space

The compact design allows the machine to perform continuous 180° dig, swing and load operations within a working space of just 3.5 m.



\*"Working distance" equals the sum of the minimum front swing radius and tail swing radius.

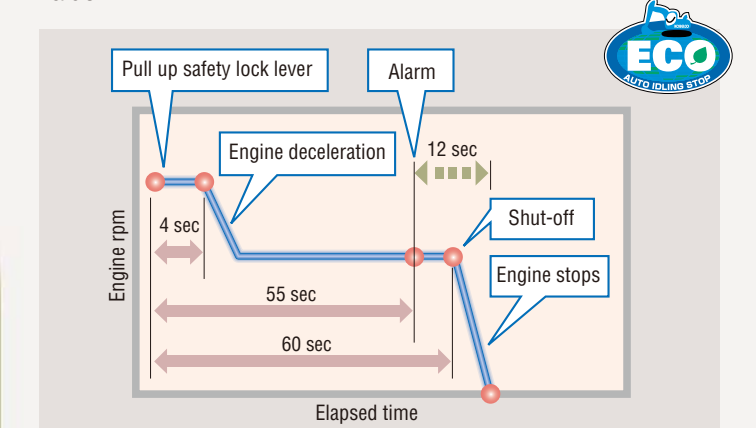
## Designed for the Environment and the Future!

### Meets Standard Values Set by Emissions Regulations

The engine used in the machines represents the crystallization of various cutting-edge technologies that minimize the emission of PM (Particulate Matter), NOx, black smoke, and other emissions, thus meeting all internationally recognized environmental regulations, including US EPA Tier III, NRMM (Europe) Stage IIIA, and Act on Regulation, Etc. of Emission from Non-road Special Motor Vehicles (Japan).

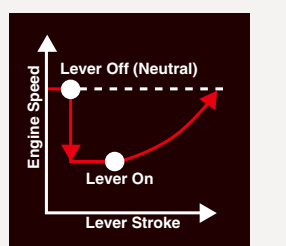
### Auto Idle Stop Provided as Standard Equipment

This function saves fuel and cuts emissions by shutting down the engine automatically when the machine is on stand by. It also stops the hourmeter, which helps to retain the machine's asset value.



### Automatic Acceleration/Deceleration Function Reduces Engine Speed

Engine speed is automatically reduced when the control lever is placed in neutral, effectively saving fuel and reducing noise and exhaust emissions. The engine quickly returns to full speed when the lever is moved out of neutral.



### Mild Operating Sound

The iNDR cooling system also helps to keep the machine quiet, even at close quarters. Even the hydraulic relief valves have been designed specifically to reduce irritating noise during operation.

### Meets EMC (Electromagnetic Compatibility) Standards in Europe.

Electrical shielding ensures that the machines clear all European standards and neither cause or are affected by electromagnetic interference.



# Fast, Accurate and Low-Cost Maintenance!

## Comfortable “On the Ground” Maintenance

All of the components that require regular maintenance are laid out for easy access, with the control valves located on a single right-hand panel that opens and closes at a touch. Behind that, in the pump compartment, there is remote access to such components as the engine oil filter and fuel filter (with built-in water separator). On the left side are the iNDr filter, air cleaner, radiator coolant, etc. Daily maintenance can be carried out easily without the need to climb up onto the machine.

Left side



Radiator reservoir tank

- Easy access to cooling units

Right side



Hydraulic pump

- Easy access to pump

Third fuel filter



## iNDr Means Easy Maintenance

### iNDr Filter Blocks Out Dust



Outside air goes directly from the intake duct through the iNDr filter for dust removal. The filter features a 60-mesh screen, which means it has sixty holes per inch both vertically and horizontally, with a wide front surface area and accordion structure that resists clogging.

### Visual Checking and Easy Cleaning



When checking and cleaning the cooling system, one must deal with several different components like the radiator, oil cooler and intercooler, which all must be handled in different ways. But with the iNDr filter, there's just one filter in one place. If it looks dirty during start-up inspection, it can be cleaned easily and quickly.

### Highly-Durable Super-fine Filter



• Super-fine filter

The high-capacity hydraulic oil filter incorporates glass fiber with superior cleaning power and durability. With a replacement cycle of 1,000 hours and a construction that allows replacement of the filter elements only, it's both highly effective and highly economical.

### Double-Element Air Cleaner

The high-performance air cleaner has twice the capacity and service life of previous air cleaners and is installed behind the iNDr filter for even more effective cleaning performance.

### High-Grade Fuel Filter with Superior Filtration Performance

A new fuel filter system has been installed that can handle the most punishing conditions. It now has a pre-filter (with built-in water separator), an ultra-fine main filter, and an additional third filter, to ensure complete removal of dust and other impurities in the fuel.

### Monitor Display with Essential Information for Accurate Maintenance Checks



- Displays only the maintenance information that's needed, when it's needed.
- Self-diagnostic function that provides early-warning detection and display of electrical system malfunctions.
- Record function of previous breakdowns including irregular and transient malfunction.

## Fast Maintenance



- Engine quick-drain cock can be turned without tools.



- Fuel tank equipped with bottom flange and large drain cock.



- Hour meter can be checked while standing on the ground



- Easy-access fuse box. More finely differentiated fuses make it easier to locate mal-functions.



- Washer fluid tank located under the cab floor mat.



- Easily replaceable engine oil filter.

- Starter easily replaced from the pump side

## Easy Cleaning



- Detachable two-piece floor mat with handles for easy removal. A floor drain located under floor mat



- Internal and external air conditioner filters can be easily removed without tools for cleaning



- Special crawler frame designed is easily cleaned of mud

## Choice of 16 languages for Monitor Display

With messages including those requiring urgent action displayed in the local language, users in all parts of the world can work with greater peace of mind.



# A Working Environment That Helps the Operator Concentrate on the Job at Hand!

## Newly-designed 'Big Cab'

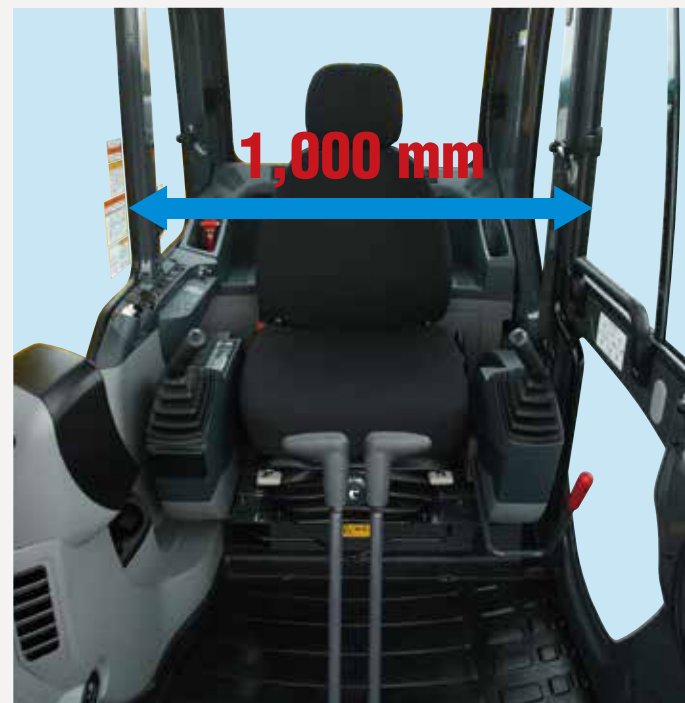


Photo: Specifications may vary in your area.

The new 'Big Cab' has the same width and height as the cabs installed on much larger machines. With more space to the front of the operator, it feels more roomy, and the larger area of floor space means greater comfort from the feet up. The operator has plenty of space in front for easy, comfortable operation, with ample foot room.

- 45mm wider than previous models for a total width of 1,000 mm
- 32% more front-to-back foot room (an additional 180mm) than previous models

## Excellent Visibility

The wide, open view in front combines with minimized blind spots around the machine for greater onsite safety.



- Front window area is 8% larger than previous models
- Reinforced green glass meets European standards
- New "rise-up" wipers keep the view clear and clean
- Broad wiper area improves visibility in bad weather

## Always Easy to Read! New Information Display



Large analog gauges with large numbers and letters and glare-reducing visors are always easy to read regardless of working conditions.



## Comfortable Operating Environment



• New reclining seat can be lowered well down to the back.



• Double slide seat



• Powerful automatic air conditioner



• Spacious luggage tray



• One-touch lock release simplifies opening and closing front window



• Large cup holder

## Cab Brackets



The SR series has a safety rating equivalent to FOPS level 1. In addition to the standard roof guard, optional front and head guards are available. They can be easily attached with bolts to the standard cab brackets.

## Safety Features That Take Various Scenarios into Consideration



• Firewall separates the pump compartment from the engine



• Hammer for emergency exit

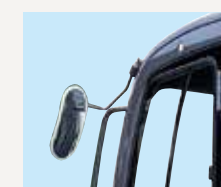


• Handrails meet European standards

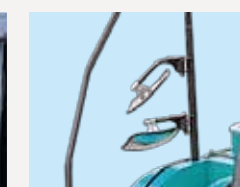
- Thermal guard prevents contact with hot components during engine inspections
- Retractable seatbelt requires no manual adjustment

## Better Visibility Than Ever Before

The wide, open view in front combines with minimized blind spots around the machine for greater onsite safety, with two handrail mirrors, a cab mirror, and a rear mirror on the counterweight providing better visibility than ever before.



• Cab mirror



• Two handrail mirrors



• Rear mirror on the counterweight



• Rear view camera & monitor (optional)





# Specifications



## Engine

Model	MITSUBISHI D04FR-74kW
Type:	Direct injection, water-cooled, 4-cycle diesel engine with turbocharger, intercooler
No. of cylinders:	4
Bore and stroke:	102 mm x 130 mm
Displacement:	4.249 L
Rated power output:	74 kW/2,000 min <sup>-1</sup> (ISO14396:2002)* 69.2 kW /2,000 min <sup>-1</sup> (ISO9249:2007)
Max. torque:	375 N-m/1,600 min <sup>-1</sup> (ISO14396:2002)* 359 N-m/1,600 min <sup>-1</sup> (ISO9249:2007)

\*ISO14396 meets EU regulation.



## Hydraulic System

Pump	
Type:	Two variable displacement pumps + 1 gear pump
Max. discharge flow:	2 x 130 L/min, 1 x 20 L/min
Relief valve setting	
Boom, arm and bucket:	34.3 MPa {350 kgf/cm <sup>2</sup> }
Travel circuit:	34.3 MPa {350 kgf/cm <sup>2</sup> }
Swing circuit:	28.0 MPa {285 kgf/cm <sup>2</sup> }
Control circuit:	5.0 MPa {50 kgf/cm <sup>2</sup> }
Pilot control pump:	Gear type
Main control valves:	8-spool
Oil cooler:	Air cooled type



## Swing System

Swing motor:	Axial piston motor
Brake:	Hydraulic; locking automatically when the swing control lever is in the neutral position
Parking brake:	Hydraulic brake
Swing speed:	11.5 min <sup>-1</sup> {rpm}
Tail swing radius:	1,490 mm
Min. front swing radius:	2,000 mm



## Attachments

Backhoe bucket and combination

Type			Backhoe bucket			
			Narrow	Normal	Wide	
Bucket capacity	ISO heaped	m³	0.38	0.50	0.70	
Opening width	With side cutter	mm	800	1,000	1,100	
	Without side cutter	mm	700	900	1,020	
No. of bucket teeth			4	5	5	
Bucket weight			kg	320	440	550
Combinations	2.09 m short arm		○	○	○	
	2.38 m standard arm		○	⊙	—	
	2.84 m long arm		⊙	△	—	

◎Standard ○Recommended △Loading only

## Operating Weight & Ground Pressure

In standard trim, with standard boom, 2.38 m arm, and 0.5 m<sup>3</sup> ISO heaped bucket

Shaped		Triple grouser shoes (even height)		
Shoe width	mm	500	600	700
Overall width of crawler	mm	2,490	2,590	2,690
Ground pressure	kPa {kgf/cm <sup>2</sup> }	43 {0.44}	37 {0.38}	32 {0.33}
Operating weight	kg	13,800	14,000	14,200
Dozer (optional)	Weight	Plus 700 kg	Plus 700 kg	Plus 700 kg
	Ground pressure	Plus 2.5 kPa	Plus 2.1 kPa	Plus 1.8 kPa



## Travel System

Travel motors:	2 x axial-piston, two-step motors
Travel brakes:	Hydraulic brake per motor
Parking brakes:	Oil disc brake per motor
Travel shoes:	44 each side
Travel speed:	5.6/3.4 km/h
Drawbar pulling force:	139 kN {14,200 kgf} (ISO 7464)
Gradeability:	70 % {35°}



## 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:	100 mm x 1,092 mm
Arm cylinder:	115 mm x 1,120 mm
Bucket cylinders:	95 mm x 903 mm



## Refilling Capacities & Lubrications

Fuel tank:	200 L
Cooling system:	14 L
Engine oil:	18.5 L
Travel reduction gear:	2 x 2.1 L
Swing reduction gear:	1.65 L
Hydraulic oil tank:	98.5 L tank oil level
	140 L hydraulic system



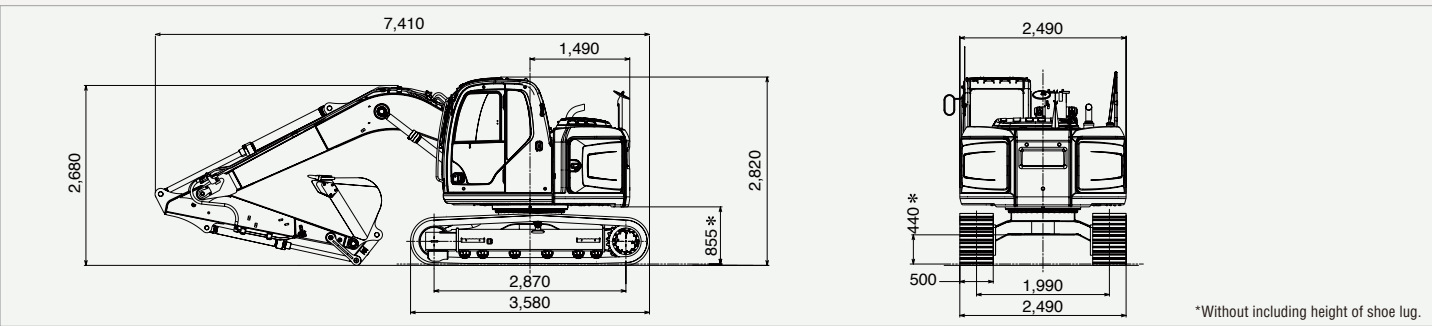
## Working Ranges

Boom	Unit: m		
	Short 2.09 m	Standard 2.38 m	Long 2.84 m
a- Max. digging reach	8.04	8.34	8.78
b- Max. digging reach at ground level	7.89	8.19	8.64
c - Max. digging depth	5.23	5.52	5.98
d - Max. digging height	8.92	9.19	9.56
e - Max. dumping clearance	6.47	6.74	7.11
f - Min. dumping clearance	2.9	2.58	2.22
g- Max. vertical wall digging depth	4.48	4.89	5.44
h- Min. swing radius	2.07	2.00	2.40
i - Horizontal digging stroke at ground level	3.59	4.21	4.70
j - Digging depth for 2.4 m (8') flat bottom	4.96	5.29	5.79
Bucket capacity SAE heaped m <sup>3</sup>	0.5	0.45	0.38

Digging Force (ISO 6015)		Unit: kN (kgf)
Arm length	Standard 2.38 m	
Bucket digging force	90.1 {9,190}	
Arm crowding force	64.4 {6,570}	



## Dimensions



## Lifting Capacity

SK135SR		Standard Arm: 2.38 m Bucket:0.5 m <sup>3</sup> ISO heaped 440 kg Shoe: 500 mm Counterweight: 3.4 t										
A	B	1.5 m		3.0 m		4.5 m		6.0 m		At Max. Reach		Radius
7.5 m	kg									*1,500	*1,500	3.91 m
6.0 m	kg					*2,910	*2,910			*1,200	*1,200	5.63 m
4.5 m	kg					*3,180	3,120	*2,570	1,820	*1,120	*1,120	6.58 m
3.0 m	kg			*5,670	*5,670	*3,930	2,890	2,770	1,730	*1,150	*1,150	7.08 m
1.5 m	kg			*7,980	4,910	4,260	2,610	2,640	1,620	*1,270	1,140	7.23 m
G. L.	kg			*7,040	4,580	4,040	2,420	2,540	1,520	*1,520	1,150	7.06 m
-1.5 m	kg	*5,190	*5,190	*7,960	4,550	3,960	2,340	2,500	1,480	*2,020	1,290	6.53 m
-3.0 m	kg	*8,050	*8,050	*6,520	4,660	4,000	2,380			2,870	1,720	5.55 m
-4.5 m	kg			*3,570	*3,570					*2,750	*2,750	3.74 m

SK135SR		Standard Arm: 2.38 m Bucket:0.5 m <sup>3</sup> ISO heaped 440 kg Shoe: 500 mm Counterweight: 4.0 t										
A	B	1.5 m		3.0 m		4.5 m		6.0 m		At Max. Reach		Radius
7.5 m	kg									*1,500	*1,500	3.91 m
6.0 m	kg					*2,910	*2,910			*1,200	*1,200	5.63 m
4.5 m	kg					*3,180	*3,180	*2,570	2,050	*1,120	*1,120	6.58 m
3.0 m	kg			*5,670	*5,670	*3,930	3,220	3,060	1,960	*1,150	*1,150	7.08 m
1.5 m	kg			*7,980	5,500	4,690	2,940	2,930	1,850	*1,270	*1,270	7.23 m
G. L	kg			*7,040	5,170	4,470	2,750	2,830	1,750	*1,520	1,330	7.06 m
-1.5 m	kg	*5,190	*5,190	*7,960	5,130	4,380	2,670	2,780	1,710	*2,020	1,500	6.53 m
-3.0 m	kg	*8,050	*8,050	*6,520	5,240	*4,400	2,710			3,190	1,980	5.55 m
-4.5 m	kg			*3,570	*3,570					*2,750	*2,750	3.74 m

Notes:

- Do not attempt to lift or hold any load that is greater than these lifting capacities at their specified lift point radius and heights. Weight of all accessories must be deducted from the above lifting capacities.
- Lifting 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 is 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.
- Lifting capacities apply to only machines as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.