

#### Hydraulic Excavators GEOSPEC SK2365SR SK2365SR SK2365SR SK2365SR SK2365SR SK2365SR SK2365SR SK2365SR SK2365SR SK2365SR

Bucket Capacity:

0.51- 0.93 m³ ISO heaped

Engine Power:

118 kW {160 PS}/2,000 min<sup>-1</sup> {rpm} (IS014396)

Operating Weight:
 24,300 kg – SK235SR
 24,900 kg – SK235SRLC





# **Powerful, Agile and Quiet.**

KOBELCO

### 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 SK235SR 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.

### 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

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• Auto Idle Stop as standard equipment

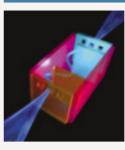
#### GEOSDEC ACERA GEOSPEC

The "GEO" in GEOSPEC expresses our deep respect for our planet, and for the solid ground where excavators are in their element. This is accompanied by SPEC, which refers to the performance specifications needed to get the job done efficiently as we carry on the tradition of the urban-friendly ACERA series. Integrated Noise & Dust Reduction Cooling System

# Amazingly Quiet! Effective Dust Protection!

Remarkable Ease of Maintenance!

#### 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 insulationmaterial inside the duct, minimizes engine noise.

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

#### Far Surpassing Legal Requirements

The ACERA GEOSPEC SR series has broken through to a new frontier in quiet operation, with a noise level a full 5 dB below the Japanese government's requirements for ultra-low-noise machinery. In fact, compared with previous KOBELCO models, we have achieved a 10 dB reduction on the right-side surface of the machine, a difference that is clearly audible.



### "Ultimate"-Low Noise Level of **95dB(A)**

#### 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.

#### Exhaust outlet

**iNDr Filter** 

Air intake

Closed-structure engine compartment

\* Not completely sealed



### The GEOSPEC Difference: **More Work with Less Fuel !**

Amazing Productivity with a 8~15% Decrease in Fuel **Consumption and "Top-Class " Cost Performance** 

Fuel Consumption and Work Volume (New S-mode)

uer oonsumption			
	Vs Previous SK235SR in H-mode	Vs Previous SK235SR in S-mode	
Fuel Consumption (L/h)	<b>15%</b> decrease	<b>8%</b> decrease	
Work volume per liters of fuel (m³/L)	<b>24%</b> increase	10% increase	
"Top-Class" F	Powerful Digging		
ax. arm crowding	j force	<b>D2 kN</b> {10.4 tf}	
ith power boost:	1	12 kN {11.4 tf}	
ax. bucket diggin	g force	43 kN {14.6 tf}	
ith power boost:	1	57 kN {16.0 tf}	
owerful Trav	el		
avel torque: incre	_	<b>6</b> %	
rawbar pulling fo			
rawbar punnig it	nue. <b>2</b>	<b>43 kN</b> {24.8 tf}	
reater Swing	j Power, Shorter C	ycle Times	
ving torque:	7	79.0 kN	17
ving Speed:	1	<b>1.8 min</b> -1	
Significant Ext	ension of Continuo	us Working Hours	1
he combinatic apacity fuel tank uel efficiency npressive max. continuous ope	c and excellent delivers an 34% increase	Fuel tank: 330 L	
ight Lever O	peration		
			The second se



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





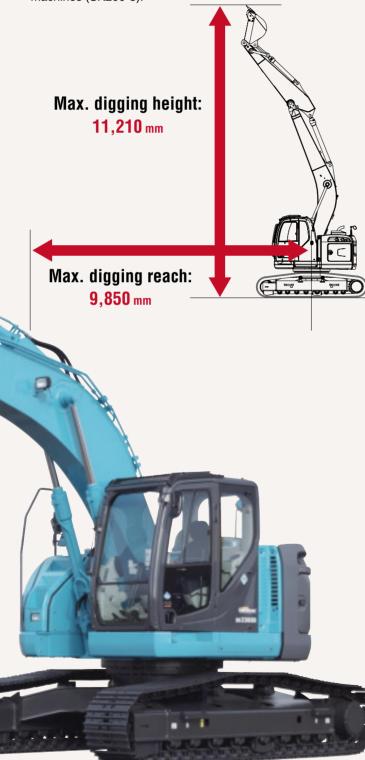
\* The value shows results from actual measurements taken by KOBELCO continuous operation in S Mode, compared with previous model, SK235SR-IES. Results will vary depending on operating method and load conditions.

#### Performance



#### A Low, Solid Center of Gravity

Despite their new, heavy-duty attachments, these machines are more stable than their predecessors, resulting in wider working ranges and a digging height equal to or greater than full-sized machines (SK200-8).



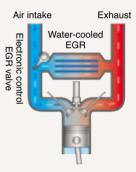
#### NEXT-3E Technology New Hydraulic System



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.

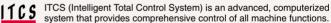
#### **2** NEXT-3E Technology Next-Generation Electronic Engine Control

The high-pressure, common-rail fuelinjection engine features a cooled EGR (Exhaust Gas Recirculation) device that lowers the air intake temperature to keep the oxygen concentration down. The multiple injection system features adjustable control to maximize fuel efficiency and provide powerful medium/low-speed torque. The result is a highly fuel-efficient engine that greatly reduces emissions of PM (Particulate Matter) and NOx into the atmosphere.



#### **3** NEXT-3E Technology TotalTuningThroughAdvanced 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.



#### Simple Select: Two Digging Modes



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

#### Optional N&B (crusher and breaker)

The operator selects the desired mode from inside the cab, and the selector valve automatically configures the machine accordingly.

S

S-Mode

#### 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 GEOSPEC 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 active control system •Arm regeneration system •Boom lowering regeneration system •Variable swing priority system •Swing rebound prevention system



### The GEOSPEC Difference: **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

#### HD Attachment as Standard

Every part of the attachment features cast or forged components, with a standard reinforced arm and boom that used to be a heavy-duty option on previous models.

#### **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.

High-quality urethane paint

#### Maneuverability, Environmemt



### *The GEOSPEC Difference:* **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 4m of Working Space**

The compact design allows the machine to perform continuous  $180^{\circ}$  dig, swing and load operations within a working space of just 4.0 m.



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



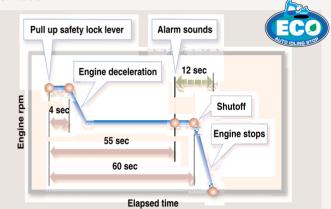
### *The GEOSPEC Difference:* **Designed for the Environment and the Future!**

#### Meets Standard Values Set by Emissions Regulations

The engine used in the GEOSPEC 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 Emissions from Non-road Special Motor Vehicles (Japan).

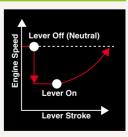
### Auto Idle Stop Provided as Standard Equipment

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.



### The GEOSPEC Difference: 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.

Easy access to cooling units



Radiator reservoir tank

•Easy access to pump & filters **Right side** 

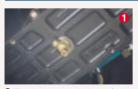


New fuel filter Pre fuel filter

#### New-design fuel filter catches 95% of dust and impurities

The large-capacity fuel filter is designed specically for common rail engines. With an increased filtering performance, this high-grade filter catches 95% of all duust particles and other impurities in the fuel.

#### Fast Maintenance



•Engine quickdrain valve can be turned without tools.



•Easy-access fuse box. More finely differentiated fuses make it easier to locate malfunctions.



•Fuel tank equipped with bottom flange and large drain valve.



•Washer fluid tank located under the cab floor mat.



•Hour meter can be checked while standing on the ground.

Starter easily replaced from the pump side
Engine oil filter

#### **Easy Cleaning**

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



•Special crawler frame designed is easily cleaned of mud



845

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



•Ceiling guard opens and closes to simplify skylight cleaning.



9



GEOSCAN allows you to use the Internet to manage information from your office for machines operating in all areas. This provides a wide range of support for your business operations.

#### Direct Access to Operational Status

- Location Data
- Operating Hours
- Fuel Consumption DataGraph of Work Content
- •Graph of Machine Duty Cycles

#### Maintenance Data and Warning Alerts

Machine Maintenance Data

#### Security System

Engine Start AlarmArea Alarm



#### iNDr Means Easy Maintenance

#### iNDr Filter Blocks Out Dust



Outside air goes directly form 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 accordion structure that resist 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 handed 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.



#### **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.

#### 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.

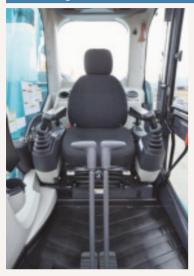
#### Choice of 16 Languages for Monitoring Display

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.



### The GEOSPEC Difference: A Working Environment That Helps the Operator Conce

#### **New Large Cab**



The new 'Big Cab' provides a roomy operating space with plenty of legroom, and the door opens wide for easy entry and exit. As well as giving a wide, open view to the front, the cab has increased window areas on both sides and to the rear, for improved visibility in all directions.

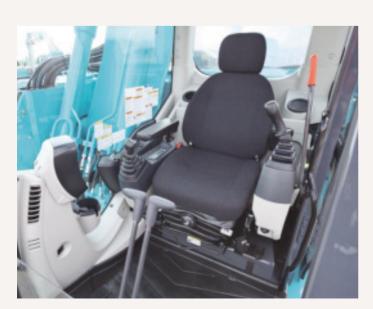
#### Wide-Access Cab Ensures Smooth Entry and Exit



Easy entry and exit assured with wider cab entry and safety lock lever integrated with mounting for control levers.

#### **Excellent Visibility**

The wide open view to the front combines with minimized blind spots around the machine for greater onsite safety. Pillar-free right-hand window further improves visibility.



#### In-Cab Noise is Reduced by 4 dB

Compared with Previous Models

#### 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.

•In-cab noise

-4dB



## ntrate on the Job at Hand!



The photo includes optional pedals for N & B.

#### Comfortable Operating Environment



Double slide seat



 One-touch lock release simplifies opening and closing front window



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Large cup holder



 Two-speaker FM/AM radio with station select



Spacious luggage tray

**ROPS** Cab



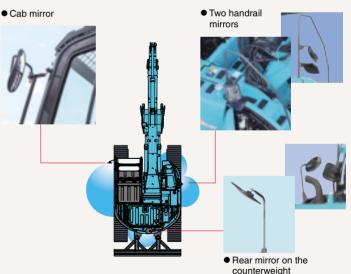
The newly developed, ROPS (Roll-Over Protective Structure)compliant cab clears ISO standards(ISO-12117-2: 2008) and ensures greater safety for the operator should the machine tip over.

Level 2 FOPS Guard (ISO 10262) is available as option.

To fit vandalism guards, please contact your KOBELCO dealer.

#### **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.



#### Safety Features That Take Various Scenarios into Consideration

● Firewall separates the pump compartment from the engine ● Handrails meet European standards ● Thermal guard prevents contact with hot components during engine inspections ● Retractable seatbelt requires no manual adjustment ● Travel alarm (optional for NZ)



• Level indicator that shows degree of machine tilt (optional for NZ)



 Hammer for emergency exit

### **Specifications**

# Engine

Model	HINO JO5E
Туре	Direct injection, water-cooled, 4-cycle diesel engine with turbocharger, intercooler (Complies with EU (NRMM) Stage IIIA, US EPA Tier III,and act on regulation, etc. of emissions from non-road special motor vehicles (Japan))
No. of cylinders	4
Bore and stroke	112 mm × 130 mm
Displacement	5.123 L
Datad navyar autout	118 kW /2,000 min <sup>-1</sup> (IS014396: 2002)*
Rated power output	114 kW /2,000 min <sup>-1</sup> (ISO9249: 2007)
Max taxaya	592 N·m/1,600 min <sup>-1</sup> {rpm} (IS014396: 2002)*
Max. torque	572 N·m/1,600 min <sup>-1</sup> {rpm} (IS09249: 2007)

### 🔁 Hydraulic System

Pump	
Туре	Two variable displacement pumps + 1 gear pump
Max. discharge flow	$2 \times 220$ L/min, $1 \times 20$ L/min
wax. uischarge now	Extra gear pump $1 \times 41$ L/min
Relief valve setting	
Boom, arm and bucket	34.3 MPa {350 kgf/cm <sup>2</sup> }
Power boost	37.7 MPa {385 kgf/cm <sup>2</sup> }
Travel circuit	34.3 MPa {350 kgf/cm <sup>2</sup> }
Swing circuit	28.5 MPa {291 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	11.8 min <sup>-1</sup> {rpm}
Tail swing radius	1,730 mm
Min. front swing radius	1,930 mm

### Attachments

Backhoe bucket and arm combination

			Backhoe bucket					Slope finishing bucket
			Normal digging				Side pin type	
	Use							_
D	ISO heaped	m <sup>3</sup>	0.51	0.7	0.8	0.93	0.8	_
Bucket capacity	Struck	m <sup>3</sup>	0.39	0.52	0.59	0.67	0.59	—
Opening width	With side cutter	nm	870	1,080	1,160	1,330	1,160	
Opening width	Without side cutter r	nm	770	980	1,060	1,230	1,060	2,200 × 1,100
No. of bucket teet	h		3	5	5	5	5	_
Bucket weight		kg	520	630	630	710	660	_
	2.4 m arm		0	0	0	O	0	Δ
Combinations	2.94 m arm		0	0	O	Δ	0	Δ
	3.33 m arm		0	Δ	×	×	×	Δ

Travel System

Travel motors	$2 \times axial-piston$ , two-step motors
Travel brakes	Hydraulic brake per motor
Parking brakes	Oil disc brake per motor
Translahasa	47 each side (SK235SR)
Travel shoes	51 each side (SK235SRLC)
Travel speed	5.5 🖌 3.4 km/h
Drawbar pulling force	243 kN {24,800 kgf} (ISO 7464)
Gradeability	70 % {35°}

### 💵 Cab & Control

#### Cab

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All-weather, sound-suppressed steel cab mounted on the silicon-sealed viscous mounts and equipped with a heavy, insulated floor mat.

ontrol

Two	hanc	l levers	and two	foot peda	ls f	or travel
_						

Two hand levers for excavating and swing Electric rotary-type engine throttle

### Boom, Arm & Bucket

Boom cylinders	125 mm × 1,320 mm
Arm cylinder	135 mm × 1,588 mm
Bucket cylinders	120 mm × 1,080 mm

### Refilling Capacities & Lubrications

Fuel tank	330 L
Cooling system	22 L
Engine oil	20.5 L
Travel reduction gear	$2 \times 4.5$ L
Swing reduction gear	7.0 L
Hydraulic oil tank	114 L tank oil level 230 L hydraulic system

 $\circledcirc$  Std.  $~\bigcirc$  Recommended  $~\vartriangle$  Loading only  $~\times$  Not recommended





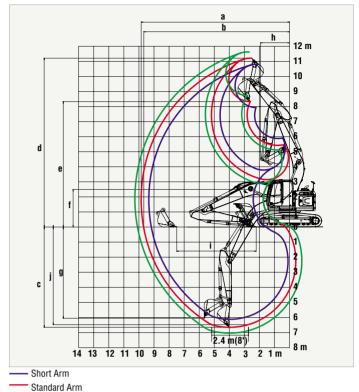
			Unit: m
Boom 5.65 m			
Arm Range	Short 2.4 m	Standard 2.94 m	Long 3.33 m
a- Max. digging reach	9.37	9.85	10.24
b- Max. digging reach at ground level	9.18	9.68	10.07
c - Max. digging depth	6.11	6.65	7.04
d- Max. digging height	10.82	11.21	11.55
e- Max. dumping clearance	7.94	8.33	8.67
f - Min. dumping clearance	3.79	3.14	2.87
g- Max. vertical wall digging depth	5.52	6.05	6.66
h- Min. swing radius	2.18	1.93	2.37
i - Horizontal digging stroke at ground level	4.08	5.27	5.66
j - Digging depth for 2.4 m (8') flat bottom	5.91	6.47	6.88
Bucket capacity ISO heaped m <sup>3</sup>	0.93	0.8	0.57
Digging Force (ISO 6015)			Unit: kN (kaf)

Digging Force (ISO 6015)			Unit: kN (kgf)
Arm length	Short	Standard	Long
	2.4 m	2.94 m	3.33 m
Bucket digging force	143 {14,600}	143 {14,600}	143 {14,600}
	157 {16,000}*	157 {16,000}*	157 {16,000}*
Arm crowding force	121 {12,300}	102 {10,400}	95.6 {9,750}
	133 {13,600}*	112 {11,400}*	105.3 {10,700}*
*Dewer Deeet enneged			

\*Power Boost engaged.

### **Dimensions**

Arm length		Short 2.4 m	Standard 2.94 m	Long 3.33 m	
A	A Overall length	SK235SR	8,880	8,790	8,850
~	overall length	SK235SRLC	9,070	8,980	9,040
В	Overall height (to top of boom)		3,150 3,150		3,410
С	Overall width	SK235SR	2,990		
U	of crawler	SK235SRLC		3,190	
D	Overall height (to	top of cab)	3,150		
Ε	Ground clearance	of rear end*	1,050		
F	Ground clearance	)*	455		



Long Arm

Long	Af	I

G	Tail swing radius		1,730
н	Tumbler distance	SK235SR	3,470
п	Tunibler uistance	SK235SRLC	3,850
	Overall length of	SK235SR	4,260
'	crawler	SK235SRLC	4,640
	Track gauge	SK235SR	2,390
J	паск уайус	SK235SRLC	2,590
K	Shoe width		600/700/800
L	Overall width of up	operstructure	3,000
			* Without including height of shoe lug.

A G D B Ε F Κ Н I C

# **Operating Weight & Ground Pressure** In standard trim, with standard boom, 2.94 m arm, and 0.8 m<sup>3</sup> ISO heaped bucket

Shaped		Triple grouser shoes (even height)							
Shoe width	mm	600	700	800					
Overall width of crawler	mm	2,990 [3,190]	3,090 [3,290]	3,190 [3,390]					
Ground pressure	kPa {kgf/cm²}	53 {0.54} [49 {0.50}]	46 {0.47} [43 {0.44}]	41 {0.42} [38 {0.38}]					
Operating weight	kg	24,300 [24,900]	24,500 [25,200]	24,800 [25,400]					
Dozer (optional)	Weight	Plus 1,600 kg [ - ]	- [-]	- [-]					
	Ground pressure	Plus 3.5 kPa [ – ]	- [-]	- [-]					

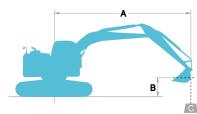
[ ] = Long Crawler

Unit: mm

### **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: 34.3
  - Max. discharge pressure: 34.3 MPa (350 kgf/cm<sup>2</sup>)

SK235SR		Standard Arm: 2.94 m Bucket: 0.8 m³ ISO heaped 630 kg Shoe: 600 mm												
		1.8	5 m	3.0	) m	4.5	5 m	6.0	) m	7.5	5 m	Max.	rearch	
В			<b></b>		<b></b>		<b></b>		<b>-</b>		<b></b>		<b></b>	Radius
9.0 m	kg											*3,360	*3,360	4.46 m
7.5 m	kg					*4,910	*4,910	*3,520	*3,520			*2,830	*2,830	6.27 m
6.0 m	kg					*5,400	*5,400	*4,970	4,650			*2,660	*2,660	7.36 m
4.5 m	kg			*7,500	*7,500	*6,440	*6,440	*5,380	4,440	*4,340	2,940	*2,670	2,560	8.03 m
3.0 m	kg			*12,230	*12,230	*7,810	6,620	*5,980	4,130	4,530	2,800	*2,800	2,260	8.38 m
1.5 m	kg			*7,170	*7,170	*8,960	5,970	6,270	3,820	4,360	2,640	*3,080	2,130	8.45 m
G. L.	kg			*7,960	*7,960	*9,320	5,590	6,020	3,600	4,230	2,520	*3,570	2,150	8.25 m
-1.5 m	kg	*6,890	*6,890	*11,140	10,920	*8,830	5,450	5,900	3,490	4,180	2,470	3,970	2,350	7.76 m
-3.0 m	kg	*10,510	*10,510	*10,270	*10,270	*7,520	5,490	*5,500	3,510			*4,370	2,850	6.91 m
-4.5 m	kg			*6,740	*6,740	*5,090	*5,090					*3,800	*3,800	5.54 m

Rating over side or 360 degrees

SK235SR Standard Arm: 2.94 m Bucket: 0.8 m <sup>3</sup> ISO heaped 630 kg Shoe: 800 mm														
A		1.5	5 m	3.(	3.0 m 4.			5 m 6.0 m		7.	5 m	Max. rearch		
В		L	<b>-</b>		<b></b>		<b></b>	L	<b>#</b>	L	<b></b>		<b></b>	Radius
9.0 m	kg											*3,360	*3,360	4.46 m
7.5 m	kg					*4,910	*4,910	*3,520	*3,520			*2,830	*2,830	6.27 m
6.0 m	kg					*5,400	*5,400	*4,970	4,760			*2,660	*2,660	7.36 m
4.5 m	kg			*7,500	*7,500	*6,440	*6,440	*5,380	4,540	*4,340	3,020	*2,670	2,630	8.03 m
3.0 m	kg			*12,230	*12,230	*7,810	6,770	*5,980	4,240	4,650	2,880	*2,800	2,330	8.38 m
1.5 m	kg			*7,170	*7,170	*8,960	6,130	6,430	3,930	4,480	2,720	*3,080	2,200	8.45 m
G. L.	kg			*7,960	*7,960	*9,320	5,740	6,180	3,700	4,350	2,600	*3,570	2,230	8.25 m
-1.5 m	kg	*6,890	*6,890	*11,140	*11,140	*8,830	5,600	6,060	3,590	4,300	2,550	4,080	2,430	7.76 m
-3.0 m	kg	*10,510	*10,510	*10,270	*10,270	*7,520	5,640	*5,500	3,610			*4,370	2,940	6.91 m
-4.5 m	kg			*6,740	*6,740	*5,090	*5,090					*3,800	*3,800	5.54 m

SK235SRLC	SK235SRLC Standard Arm: 2.94 m Bucket: 0.8 m³ ISO heaped 630 kg Shoe: 600 mm													
	A		5 m	3.0	) m	4.	5 m	im 6.0 m			5 m	Max.	rearch	
В			<b></b>		<b></b>	L	<b>—</b>		<b>-</b>		<b>—</b>		<b>-</b>	Radius
9.0 m	kg											*3,360	*3,360	4.46 m
7.5 m	kg					*4,910	*4,910	*3,520	*3,520			*2,830	*2,830	6.27 m
6.0 m	kg					*5,400	*5,400	*4,970	*4,970			*2,660	*2,660	7.36 m
4.5 m	kg			*7,500	*7,500	*6,440	*6,440	*5,380	5,040	*4,340	3,380	*2,670	*2,670	8.03 m
3.0 m	kg			*12,230	*12,230	*7,810	7,580	*5,980	4,730	*4,970	3,230	*2,800	2,630	8.38 m
1.5 m	kg			*7,170	*7,170	*8,960	6,920	*6,520	4,420	*5,180	3,070	*3,080	2,500	8.45 m
G. L.	kg			*7,960	*7,960	*9,320	6,520	*6,740	4,190	5,150	2,950	*3,570	2,530	8.25 m
-1.5 m	kg	*6,890	*6,890	*11,140	*11,140	*8,830	6,380	*6,470	4,070	*4,800	2,900	*4,460	2,760	7.76 m
-3.0 m	kg	*10,510	*10,510	*10,270	*10,270	*7,520	6,420	*5,500	4,090			*4,370	3,330	6.91 m
-4.5 m	kg			*6,740	*6,740	*5,090	*5,090					*3,800	*3,800	5.54 m

SK235SRLC	SK235SRLC Standard Arm: 2.94 m Bucket: 0.8 m³ ISO heaped 630 kg Shoe: 800 mm													
$\sim$	A		5 m	3.(	3.0 m 4		5 m	6.	6.0 m		5 m	Max. rearch		
В			<b>-</b>		<b></b>		<b>-</b>		<b>-</b>		<b></b>		<b>-</b>	Radius
9.0 m	kg											*3,360	*3,360	4.46 m
7.5 m	kg					*4,910	*4,910	*3,520	*3,520			*2,830	*2,830	6.27 m
6.0 m	kg					*5,400	*5,400	*4,970	*4,970			*2,660	*2,660	7.36 m
4.5 m	kg			*7,500	*7,500	*6,440	*6,440	*5,380	5,170	*4,340	3,470	*2,670	*2,670	8.03 m
3.0 m	kg			*12,230	*12,230	*7,810	7,770	*5,980	4,860	*4,970	3,330	*2,800	2,710	8.38 m
1.5 m	kg			*7,170	*7,170	*8,960	7,100	*6,520	4,540	*5,180	3,170	*3,080	2,580	8.45 m
G. L.	kg			*7,960	*7,960	*9,320	6,710	*6,740	4,310	5,190	3,050	*3,570	2,610	8.25 m
-1.5 m	kg	*6,890	*6,890	*11,140	*11,140	*8,830	6,560	*6,470	4,200	*4,800	3,000	*4,460	2,850	7.76 m
-3.0 m	kg	*10,510	*10,510	*10,270	*10,270	*7,520	6,600	*5,500	4,220			*4,370	3,430	6.91 m
-4.5 m	kg			*6,740	*6,740	*5,090	*5,090					*3,800	*3,800	5.54 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.
   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.
- 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.
- 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, HINO J05E, Diesel engine with turbocharger and intercooler
- Automatic engine deceleration
- Auto Idle Stop (AIS)
- Batteries (2 × 12V 92Ah)
- Starting motor (24V 5 kW), 50 amp alternator
- Automatic engine shut-down for low engine oil pressure
- Engine oil pan drain cock
- Double element air cleaner
- CONTROL
- Working mode selector (H-mode and S-mode)
- Power Boost
- 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

- **CAB & CONTROL**
- Two control levers, pilot-operated
- ow 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
- Heater and defroster
- Intermittent windshield wiper with double-spray washer
- Tinted safety glass
- Pull-type front window and removable lower front window
- Easy-to-read multi-display monitor
- Automatic air conditioner
- Emergency escape hammer
- Radio, AM/FM Stereo with speakers
- Travel alarm (optional for NZ)
- Heightlizer for control box
- Gear pump (optional for NZ)
- Level indicator (optional for NZ)

#### **OPTIONAL EQUIPMENT**

- Dozer blade
- Wide range of buckets
- Various optional arms
- Wide range of shoes
- Boom safety valve
- Arm safety valve

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

- 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: 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.

#### **KOBELCO CONSTRUCTION MACHINERY CO., LTD.**

5-15, Kitashinagawa 5-chome, Shinagawa-ku, Tokyo 141-8626 JAPAN Tel: +81 (0) 3-5789-2146 Fax: +81 (0) 3-5789-2135 https://www.kobelcocm-global.com/ Inquiries To: