

ACERA GEOSPEC

Hydraulic Excavators

SK135SR
SK135SR_{LC}

- Bucket Capacity:
0.5 m³ SAE heaped
- Engine Power:
69.2 kW (92.8 PS)
SAE NET/2,000 min⁻¹ (rpm)
- Operating Weight:
13,800 kg - SK135SR
13,900 kg - SK135SRLC

That's KOBELCO!

Your First Choice



Engine

Model	MITSUBISHI D04FR-KDP2TAAC
Type:	Direct injection, water-cooled, 4-cycle diesel engine with turbocharger, intercooler
No. of cylinders:	4
Bore and stroke:	102 mm × 130 mm
Displacement:	4,249 L
Rated power output:	69.2 kW (92.8 PS)/2,000 min ⁻¹ (rpm)
Max. torque:	375 N·m/1,600 min ⁻¹ (rpm)



Hydraulic System

Pump	
Type:	Two variable displacement pumps + 1 gear pump
Max. discharge flow:	2 × 130 L/min, 1 × 20 L/min
Relief valve setting	
Boom, arm and bucket:	34.3 MPa (350 kgf/cm ²)
Travel circuit:	34.3 MPa (350 kgf/cm ²)
Swing circuit:	28.0 MPa (285 kgf/cm ²)
Control circuit:	5.0 MPa (50 kgf/cm ²)
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 ⁻¹ (rpm)
Tail swing radius:	1,490 mm
Min. front swing radius:	2,000 mm



Attachments

Backhoe bucket and arm combination

Use			Backhoe bucket							Slope finishing bucket	
			Normal digging								
										—	
Bucket capacity	(SAE heaped)	m ³	0.24	0.31	0.38	0.45	0.50	0.57	0.70	0.52	
	Struck	m ³	0.20	0.23	0.28	0.35	0.38	0.43	0.50	—	
Opening width or X-section	With side cutter	mm	600	700	800	900	1,000	1,100	—	—	
	Without side cutter	mm	500	600	700	800	900	1,000	1,150	1,800 x 900	
No. of bucket teeth			3	3	4	4	5	5	5	—	
Bucket weight			kg	280	300	320	360	390	400	400	—
Combinations	2.09 m Short arm		○	○	○	○	△	⊗	△	—	
	2.38 m Standar arm		○	○	○	○	⊗	△	—	—	
	2.84 m Long arm		○	○	⊗	△	—	—	—	—	

○ Std. ○ Recommended △ Loading only

Operating Weight & Ground Pressure

In standard trim, with standard boom, 2.38 m arm, and 0.5 m³ SAE heaped bucket

[] = Long Crawler

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 ²)	43 (0.44) [42 (0.43)]	37 (0.38) [35 (0.36)]	32 (0.33) [31 (0.32)]
Operating weight kg	13,800 [13,900]	14,000 [14,300]	14,200 [14,500]



Travel System

Travel motors:	2 × 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) (J 1349 MAY91)
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 × 1,092 mm
Arm cylinder:	115 mm × 1,120 mm
Bucket cylinders:	95 mm × 903 mm



Refilling Capacities & Lubrications

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



Working Ranges

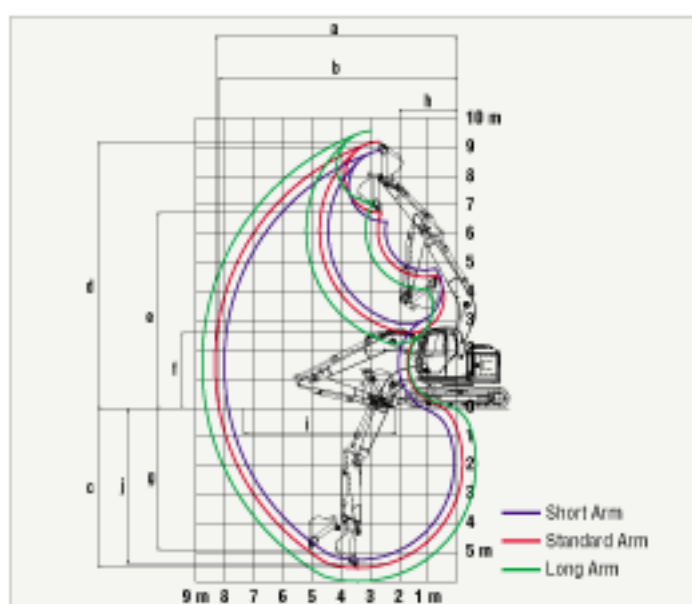
Unit: m

Range	Arm	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		9.19	9.19	9.55
e- Max. dumping clearance		6.47	6.74	7.11
f- Min. dumping clearance		2.90	2.58	2.22
g- Max. vertical wall digging depth		4.48	4.89	5.35
h- Min. swing radius		2.07	2.0	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 ³		0.5	0.5	0.38

Digging Force (ISO 6015)

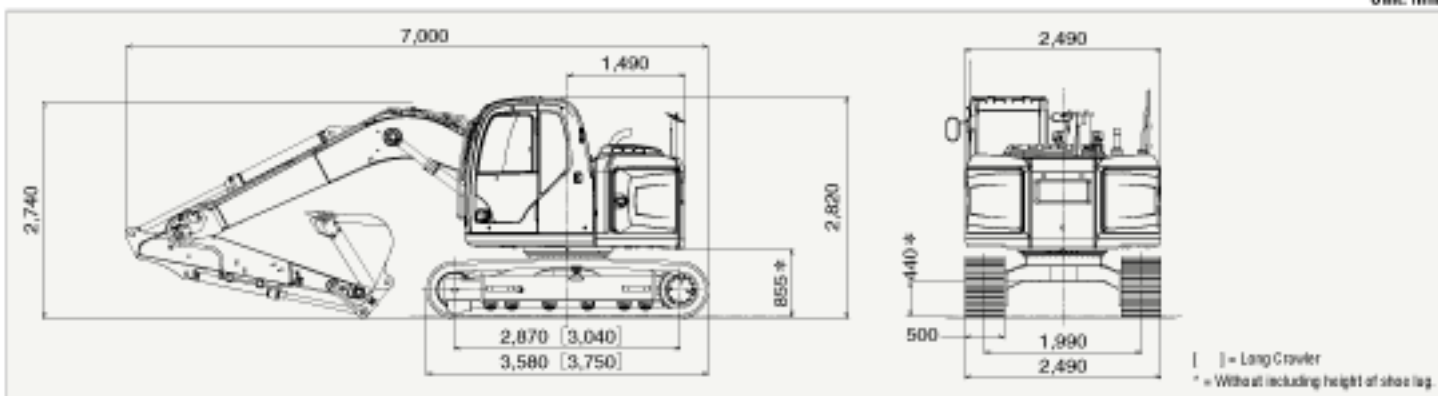
Unit: kN (kgf)

Arm length	Standard 2.38 m
Bucket digging force	90.1 (9,190)
Arm crowding force	64.4 (6,570)



Dimensions

Unit: mm



SIDE DIGGING APPLICATION

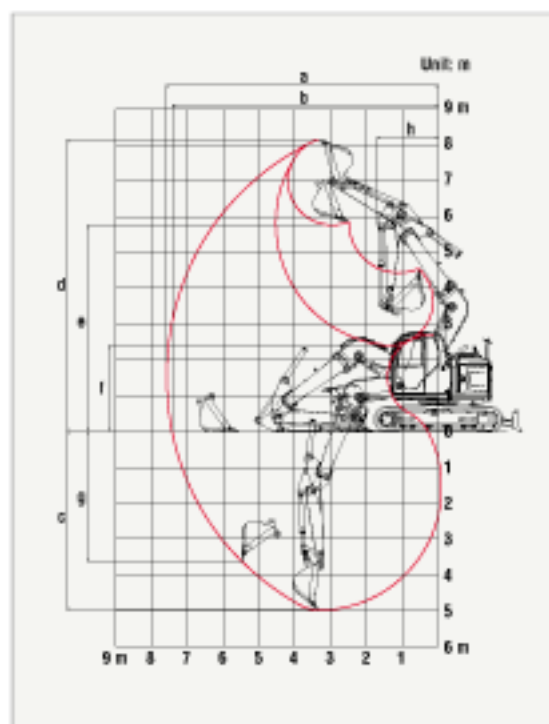
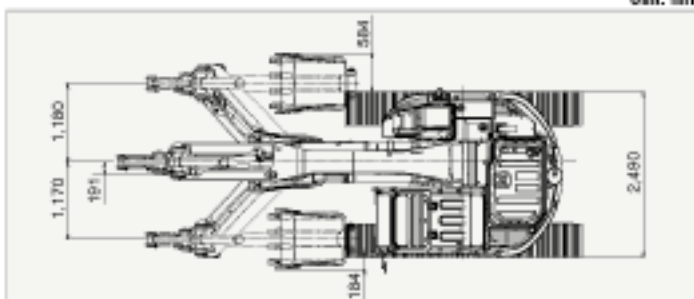


Backhoe Attachment Working Ranges

Unit: m

Arm	2.2 m	2.2 m	2.2 m
Offset	(Center)	Max. (left)	Max. (right)
a- Max. digging reach	7.57	7.15	7.14
b- Max. digging reach at ground level	7.41	6.98	6.97
c- Max. digging depth	4.99	4.58	4.57
d- Max. digging height	8.15	7.81	7.80
e- Max. dumping clearance	5.77	5.42	5.41
f- Min. dumping clearance	2.41	2.07	2.05
g- Max. vertical wall digging depth	3.61	3.25	3.24
h- Min. front swing radius	1.70	1.44	1.43
Bucket capacity SAE heaped m ³		0.45	

Unit: mm



STANDARD EQUIPMENT

ENGINE

- Engine, MITSUBISHI D04FR-KDP2TAAC, Diesel engine with turbocharger and intercooler
- Automatic engine deceleration
- Auto Idling 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, B-mode and A-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

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
- Heater and defroster
- 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
- Radio, AM/FM Stereo with speakers
- Travel alarm (optional for NZ)
- Heightlizer for control box

OPTIONAL EQUIPMENT

- Dozer blade
- Wide range of buckets
- 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.

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