

Full-sized Performance With a Tiny Rear Swing Radius

Ultra-small Rear Swing Radius Lets You Concentrate on the Job

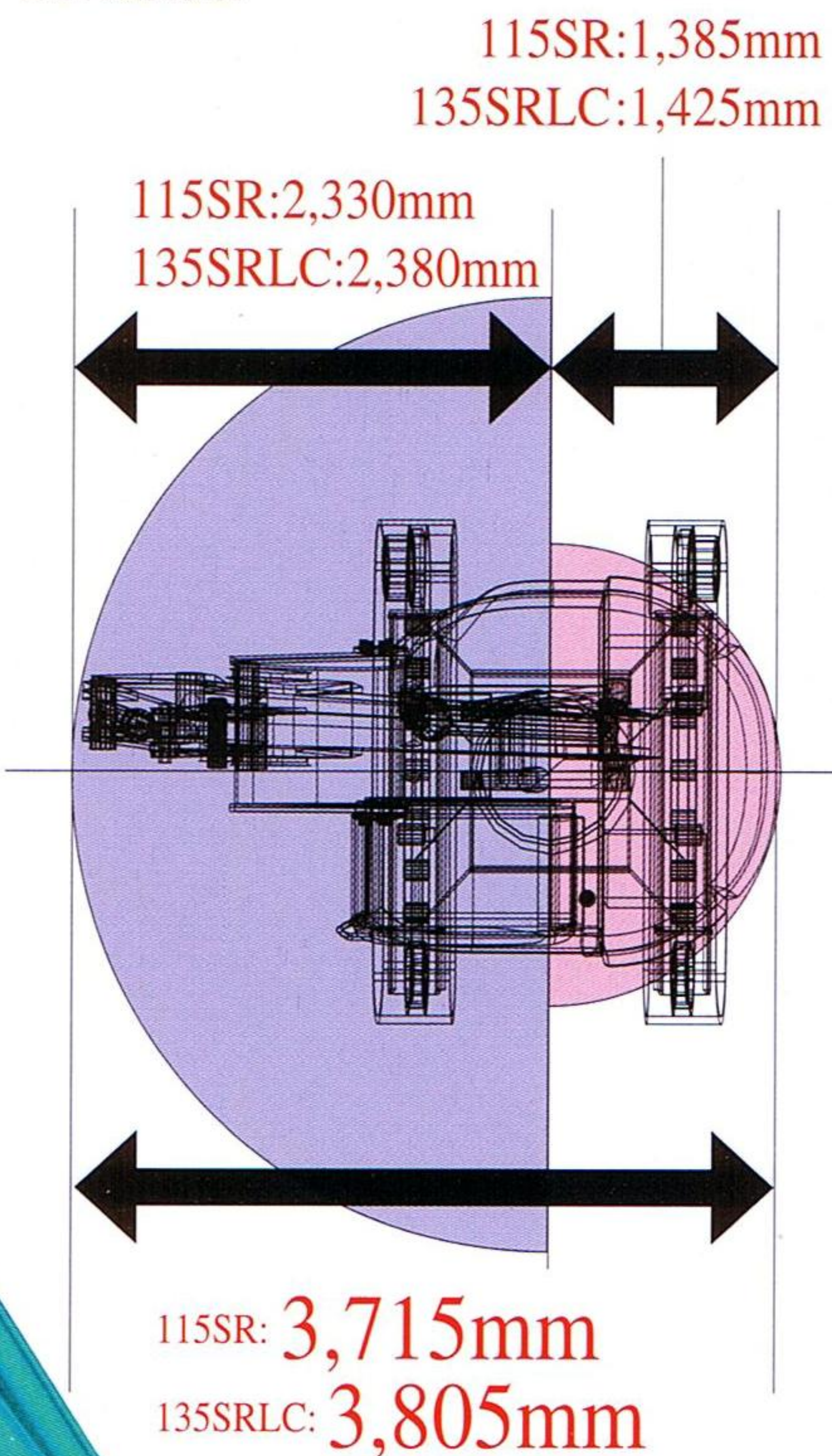
The rear of the upper carriage stays nearly within the undercarriage width during swinging and provides you safer and more efficient operations.

Increased Utilization, with Two Benefits

There's less chance of colliding with onsite obstacles, and operations are possible at previously inaccessible locations such as areas along walls or forestry, without constant worry about the rear. And operators benefit twice from a machine that does the same work as a conventional model, yet has the small rear swing advantage.

A Working Radius Less Than 4 m

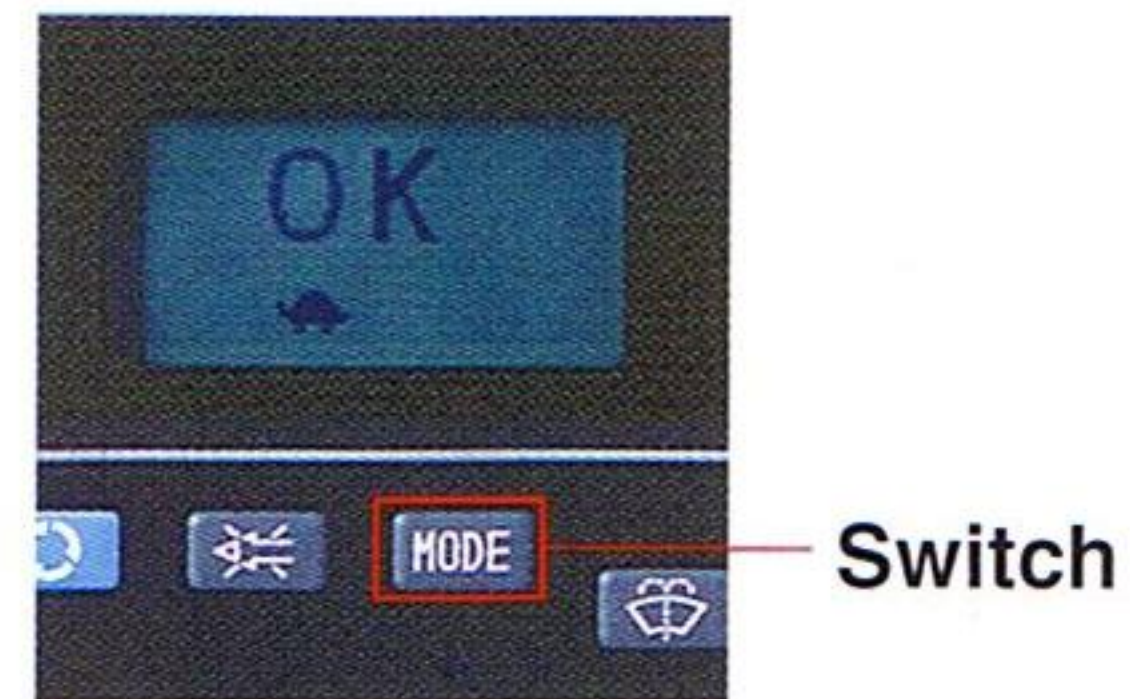
When swinging 180°, the SK115SR/SK135SRLC needs less than four meters of operating space, making continuous digging, swinging, and loading operations possible on small worksites.



Three ITCS Operating Modes

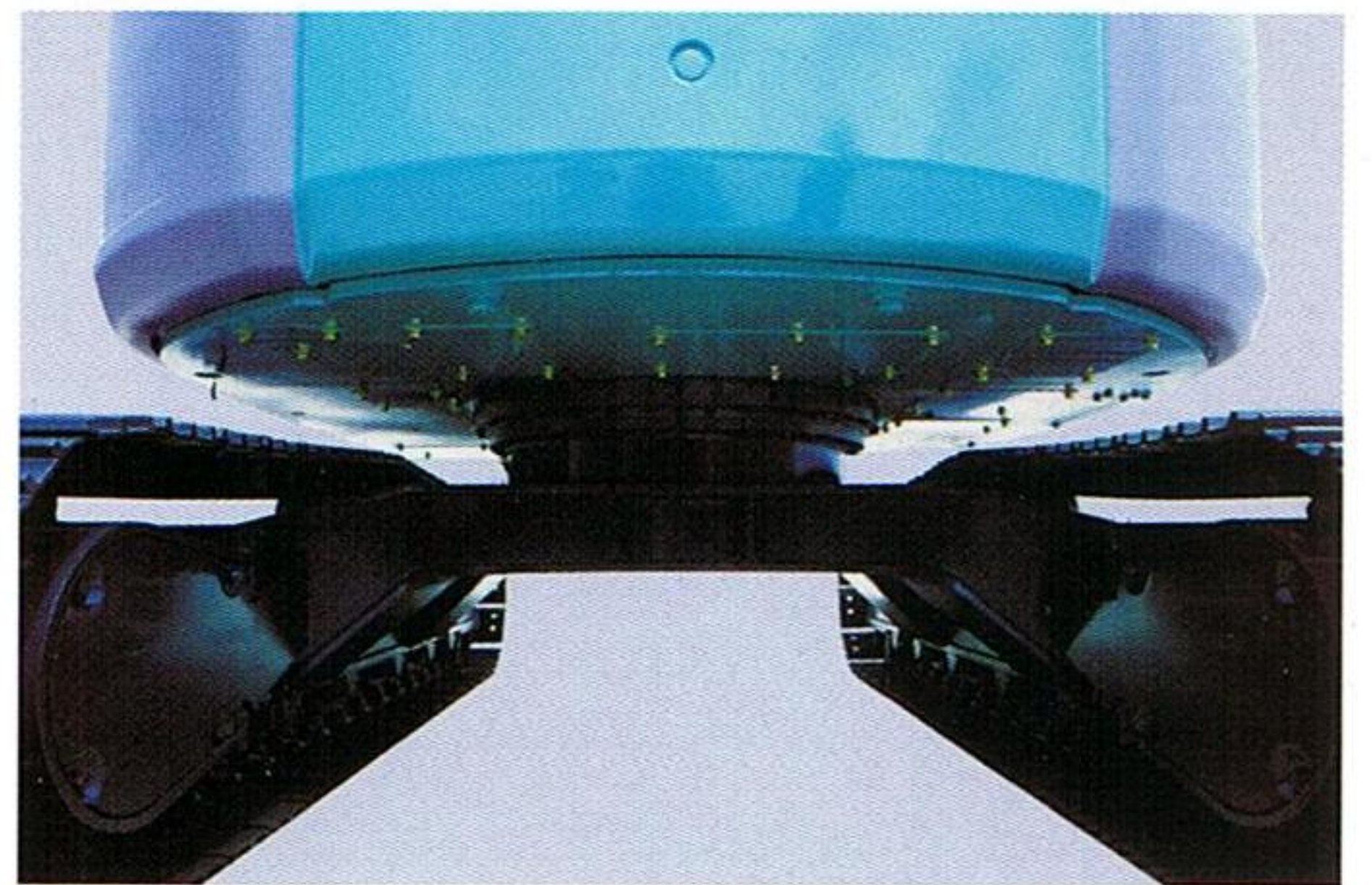
Three operating modes are available with a simple touch on the switch.

H-Mode for heavy digging
S-Mode for energy-efficient operation
FC-Mode for fine control.



Excellent Stability and Performance

The floor of the upper frame is constructed of a single, thick steel plate that provides optimal stability.



Automatic Two-speed Travel System

An automatic shift function ensures smoother, more efficient travel on the worksite.

High mode: 6.0 km/h

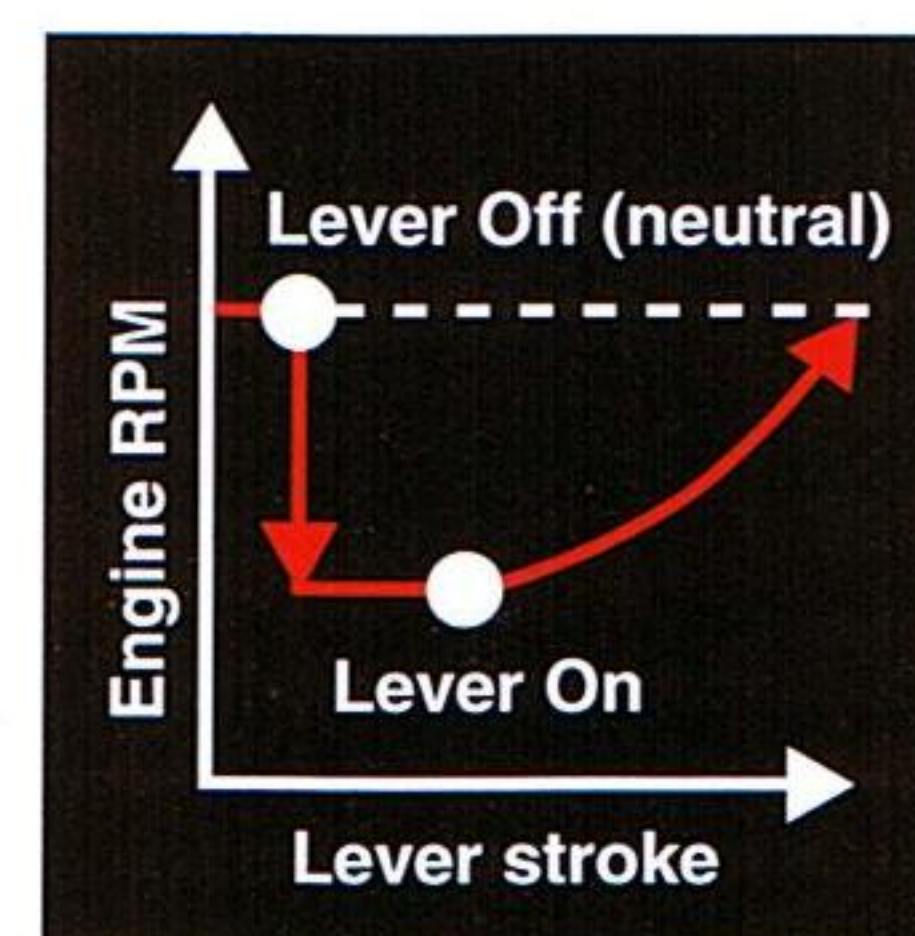
Low mode: 3.5 km/h

SK135SRL

High mode: 5.1 km/h

Low mode: 2.8 km/h

Automatic Deceleration Function



When the control lever is placed in neutral, engine speed is automatically lowered to save fuel, reduce the noise level and exhaust gas emissions.

When machine operation is resumed, the engine speed increases gradually to ensure safety.

- The swing priority system automatically boosts power to the swing during simultaneous operations of swing and arm.
- The shockless travel system ensures smooth starts and stops.
- The straight travel system keeps the





ENGINE

Model:	ISUZU 4BG1TABGA
Type:	Direct injection, water-cooled, 4-cycle diesel engine with turbocharger
No. of cylinders:	4
Bore and stroke:	105 mm × 125 mm
Displacement:	4,329 cc
Rated power output:	58.8 kW NET at 2,050 rpm 80 PS NET at 2,050 rpm
Max. torque:	294 N·m at 1,600 rpm 30 kgf·m at 1,600 rpm



HYDRAULIC SYSTEM

Pump:	Two variable displacement pump
Max. discharge flow:	2 × 118 liters/min
Max. discharge pressure:	
Excavating circuit (main):	32.4 MPa (330 kgf/cm ²)
Propel circuit:	32.4 MPa (330 kgf/cm ²)
Swing circuit:	26.0 MPa (265 kgf/cm ²)
Control circuit:	5.0 MPa (50 kgf/cm ²)
Pilot control pump:	Gear type
Control valves:	6-spool
Oil cooler:	Air cooled type (Finned tube, forced ventilation)



CAB & CONTROL

All-weather, sound suppressed steel cab is mounted on the silicon-sealed viscous mount. Large, tinted safety-glass windows, with pull type upper front window and removable lower front windows. Four-way adjustable dual-slide seat with wrist-action levers, electric rotary-type engine throttle, safety-lock lever, and easy-to-read multi-display monitor. Ventilated, pressurized climate control system, floor mat, intermittent windshield wiper with two-jet washer, light-action cab door, skylight, ashtray, cab light (interior), coat hook, cup holder, and utility box.



TRAVEL SYSTEM

Drive motors:	Independent, axial-piston, two-step motor each side
Brakes:	Independent, disc parking brake for each side
Track shoes:	41 each side
Travel speed:	6.0/3.5 km/h
Gradeability:	70 % (35°)
Drawbar pulling force:	120 kN (12,200 kgf) (SAE J1309 MAY 91)



SWING SYSTEM

Brake:	Hydraulic, locking automatically when the swing control lever is in neutral position
Parking brake:	Hydraulic disc brake
Swing speed:	11.4 rpm
Tail swing radius:	1,385 mm
Min. front swing radius:	2,330 mm



BOOM, ARM, AND BUCKET

Boom cylinders:	95 mm × 1,450 mm
Arm cylinder:	110 mm × 1,075 mm
Bucket cylinder:	95 mm × 885 mm

DOZER BLADE

Dimensions:	2,490 mm (width) × 570 mm (height)
Working range (up/down):	490 mm × 540 mm



REFILLING CAPACITIES AND LUBRICATION

Fuel tank:	168 liters
Cooling system:	18 liters
Engine oil:	13 liters
Track drives:	2 × 2.5 liters
Swing drive:	1.7 liters
Hydraulic oil Tank (oil level):	94 liters
Hydraulic system:	140 liters



ATTACHMENTS

Uses	Backhoe bucket							
	General purpose							
Bucket capacity (SAE heaped)	m ³	0.17	0.23	0.30	0.37	0.45	0.50	
Bucket capacity (Struck)	m ³	0.13	0.19	0.22	0.27	0.35	0.45	
Opening width	With side cutters	mm	—	600	700	800	950	1,000
	Without side cutters	mm	450	500	600	700	850	900
No. of bucket teeth		3	3	3	4	4	4	
Combinations	1.9 m arm		○	○	○	○	○	
	2.2 m arm		○	○	○	○	△	
	2.7 m arm		○	○	○	○	△	×



WORKING RANGES

Unit: m

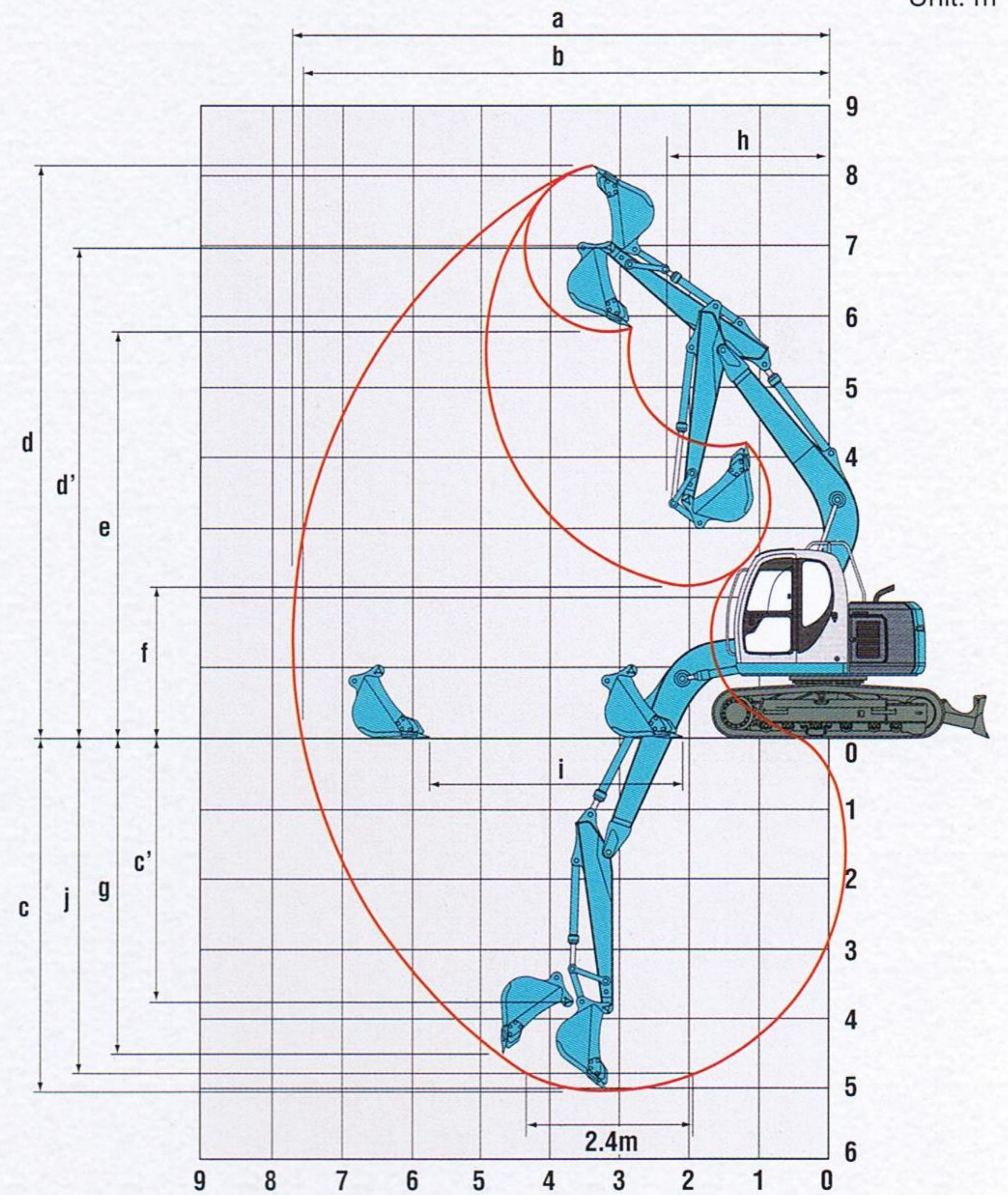
Range \ Arm	1.9	Std. 2.2	2.7	1.9 + 0.6
a - Max. digging reach	7.43	7.71	8.18	8.27
b - Max. digging reach at ground level	7.29	7.59	8.05	8.14
c - Max. digging depth	4.76	5.06	5.56	5.66
c' - Max. depth of bucket hinge pin	3.55	3.85	4.35	4.45
d - Max. digging height	7.96	8.16	8.49	8.54
d' - Max. height of bucket hinge pin	6.78	6.98	7.31	7.36
e - Max. dumping clearance	5.57	5.78	6.10	6.15
f - Min. dumping clearance	2.51	2.17	1.72	1.58
g - Max. vertical wall digging depth	3.96	4.50	4.86	4.89
h - Min. front swing radius	2.44	2.33	2.59	2.43
i - Horizontal digging stroke at ground level	3.03	3.65	4.22	4.51
j - Digging depth for 2.4 m flat bottom	4.48	4.80	5.35	5.45
Bucket capacity SAE heaped m ³	0.50	0.45	0.37	0.30

DIGGING FORCE

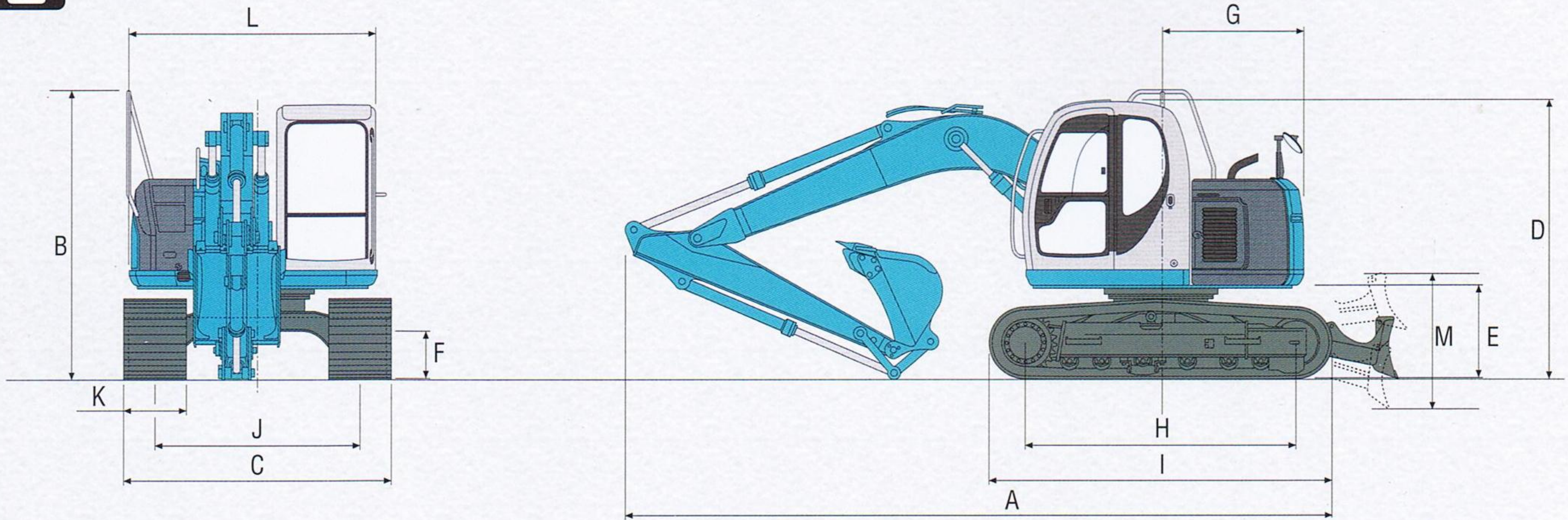
Unit: kN(kgf)

Arm length	1.9 m	Std. 2.2 m	2.7 m	2.2 + 0.6 m
Bucket digging force	85.5 (8,720)			
Arm crowding force	66.9 (6,820)	58.8 (6,000)	52.0 (5,300)	49.1 (5,010)

Unit: m



DIMENSIONS



Arm length	1.9m	Std. 2.2 m	2.7 m
A Overall length	6,690	6,880	6,890
B Overall height (to top of hand rail)	2,810		
C Overall width (600 mm shoe)	2,590		
D Overall height (to top of cab)	2,740		
E Ground clearance of rear end*	910		
F Gound clearance*	455		

Dimension	Value
G Tail swing radius	1,385
H Tumbler distance	2,610
I Overall length of crawler	3,320
J Track width	1,990
K Shoe width	500/600/700
L Overall width of upperstructure	2,410
M Dozer blade (up/down)	490/540

Unit: mm

* Without including height of shoe lug.

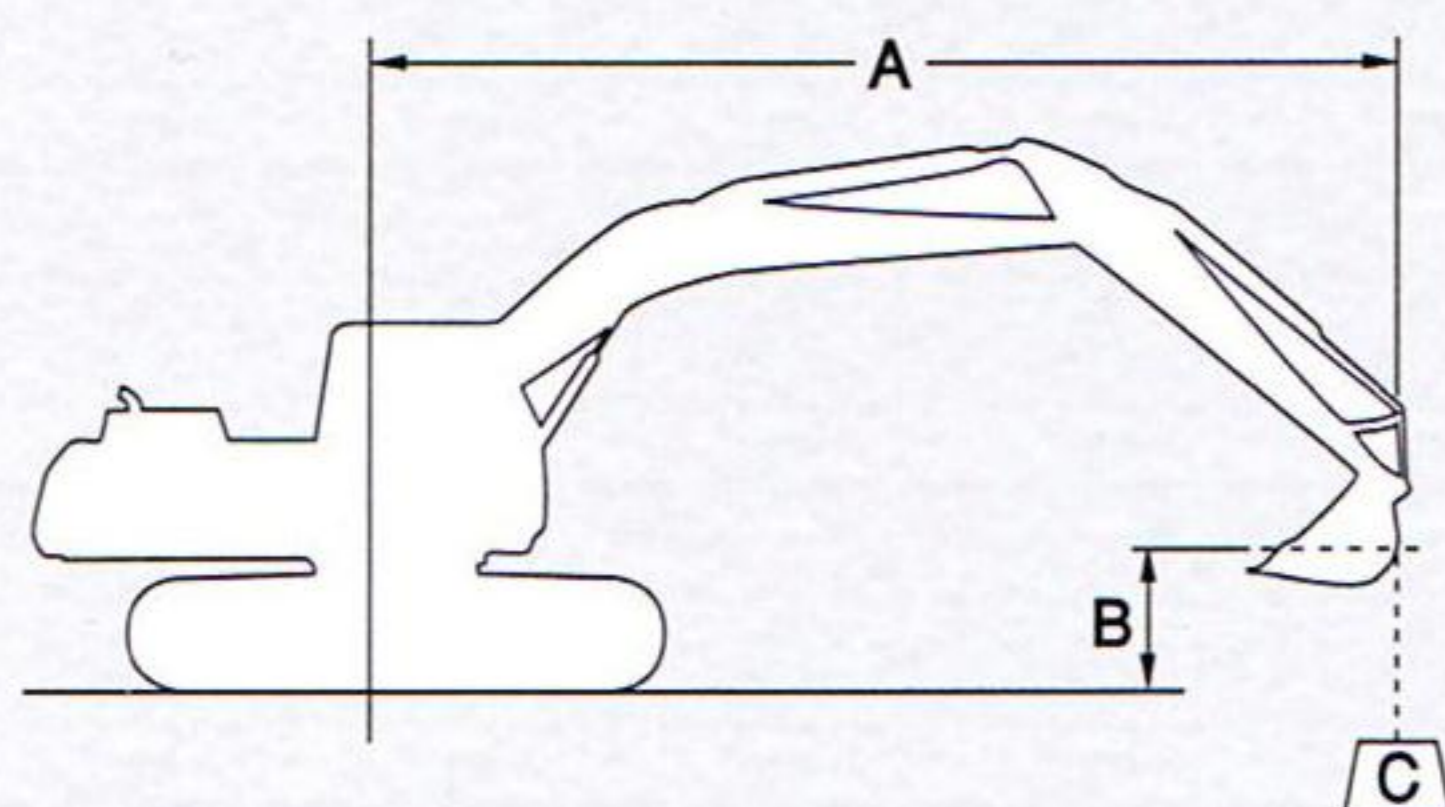


OPERATING WEIGHT AND GROUND PRESSURE

In standard trim, with standard boom, 2.2 m arm, 0.45 SAE bucket

Shape	Triple groucer shoe (even height)			Flat shoe	
Shoe width	mm	500	600	700	500
Overall width	mm	2,490	2,590	2,690	2,490
Ground pressure	kPa (kgf/cm ²)	40 (0.41)	34 (0.35)	30 (0.31)	41 (0.42)
Operating weight	kg	11,800	11,900	12,200	11,900

LIFTING CAPACITY



Rating over front



Rating over side or 360 degrees

A - Reach from swing centerline to bucket hook
 B - Bucket hook height above/below ground
 C - Lifting capacities in kilograms
 • Max. discharge pressure: 32.4 MPa (330kgf/cm²)

		SK115SR Standard Arm: 2.2 m Bucket: 0.45 m ³ SAE heaped 340 kg Shoe: 500 mm							
		1.5 m		3.0 m		4.5 m		6.0 m	
B	A								
	6.0 m	kg					*2,200	*2,200	
4.5 m	kg					*2,500	2,500		
3.0 m	kg			*4,100	*4,100	*3,100	2,400	2,000	1,400
1.5 m	kg			*6,000	4,200	3,100	2,200	1,900	1,300
Ground level	kg			5,800	3,900	2,900	2,000	1,800	1,300
-1.5 m	kg	*5,200	*5,200	5,700	3,800	2,800	2,000		
-3.0 m	kg	*8,400	*8,400	*5,300	3,900	2,900	2,000		

		SK115SR Standard Arm: 2.2 m Bucket: 0.45 m ³ SAE heaped 340 kg Shoe: 600 mm							
		1.5 m		3.0 m		4.5 m		6.0 m	
B	A								
	6.0 m	kg					*2,200	*2,200	
4.5 m	kg					*2,500	*2,500		
3.0 m	kg			*4,100	*4,100	*3,100	2,500	2,000	1,500
1.5 m	kg			*6,000	4,300	3,100	2,200	1,900	1,400
Ground level	kg			5,900	3,900	3,000	2,100	1,900	1,300
-1.5 m	kg	*5,200	*5,200	5,800	3,900	2,900	2,000		
-3.0 m	kg	*8,400	*8,400	*5,300	4,000	2,900	2,000		

Notes:

1. Do not attempt to lift or hold any load that exceeds these rated values at their specified load radii and heights.
2. Lifting capacities assume a machine standing on a level, firm, and uniform supporting surface. Operator must make allowance for job conditions such as soft or uneven ground, out of level conditions, side loads, sudden stopping of loads, hazardous conditions, inexperienced personnel, weight of various other buckets, lifting slings, attachments, etc.
3. Ratings at bucket lift hook.
4. The above rated loads are in compliance with SAE Hydraulic Excavator Lift

Capacity Rating Standard J 1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.

5. When a dozer blade is attached to SK115SR, do not attempt to increase lifting capacity by setting the blade on the ground and using it as a stability.
6. Operator should be fully acquainted with the operators' manual before operating this machine. Rules for safe operation of equipment should be followed at all times.
7. Capacities apply only to the machine as originally manufactured and normally equipped by KOBELCO Construction Machinery Co., Ltd.