

# Specifications

## Engine

Model	YANMAR 4TNV88C-PYBD
Type	Four-stroke, liquid-cooled, direct injection diesel, complies with Tier 4 Final exhaust emission regulation
No. of cylinders	4
Bore and stroke	88 mm x 90 mm
Displacement	2.189 L
Rated power output	27.7 kW/2,400 min <sup>-1</sup> (ISO 9249: with fan)
	29.1 kW/2,400 min <sup>-1</sup> (ISO 14396: without fan)
Max. torque	136.8 N·m/1,560 min <sup>-1</sup> (ISO 9249: with fan)
	139.1 N·m/1,560 min <sup>-1</sup> (ISO 14396: without fan)

## Hydraulic system

Pump	
Type	Two variable displacement axial piston pumps + one gear pump + pilot pump
Max. discharge flow	SK45SRX 2 x 49.9 L/min 1 x 33.8 L/min 1 x 10.8 L/min
	SK55SRX 2 x 53 L/min 1 x 33.8 L/min 1 x 10.8 L/min
Relief valve setting	
Boom, arm and bucket	23.0 MPa
Travel circuit	23.0 MPa
Swing circuit	20.1 MPa
Blade circuit	22.0 MPa
Control circuit	3.5 MPa
Pilot control circuit	Gear type
Main control valves	11-spool
Oil cooler	Air cooled type

## Swing system

Swing motor	One fixed displacement piston motor
Brake	Hydraulic; locking automatically when the swing control lever is in the neutral position
Parking brake	Wet multiple plate
Swing speed	8.5 min <sup>-1</sup>
Tail swing radius	1,170 mm
Swing torque	12.4 kN·m

## Travel system

Travel motors	Two variable displacement piston motors	
Travel brakes	Hydraulic brake	
Parking brakes	Wet multiple plate	
Travel shoes	38 each side (steel shoe)	
Travel speed	SK45SRX	4.2/2.2 km/h (rubber shoe) 3.9/2.1 km/h (steel shoe)
	SK55SRX	4.5/2.4 km/h (rubber shoe) 4.2/2.2 km/h (steel shoe)
Drawbar pulling force	SK45SRX	54.7 kN (Cab) 54.8 kN (Canopy)
	SK55SRX	54.4 kN (Cab) 54.5 kN (Canopy)
Gradeability	58% {30°}	

## Cabin & control

Cabin
Cab: Fully enclosed steel structure
Canopy: Four posts canopy
Control
Two hand levers and two foot pedals for travel
Two hand levers for excavating and swing
Electric rotary-type engine throttle
Foot control (for boom swing)
Foot control (for N&B piping)
Dozer lever

## Boom, arm & bucket

Model	SK45SRX		SK55SRX	
	Cab	Canopy	Cab	Canopy
Boom cylinder	100 mm x 695 mm	100 mm x 702 mm	100 mm x 699 mm	
Arm cylinder	80 mm x 702 mm		90 mm x 716 mm	
Bucket cylinder	75 mm x 546 mm			
Swing cylinder	90 mm x 574 mm			

## Dozer blade

Dozer cylinder	90 mm x 200 mm
Dimension	1,960 mm (width) x 345 mm (height)
Working range	465 mm (up) x 335 mm (down)

## Refilling capacities & lubrications

Fuel tank	75 L
Cooling system	8.5 L
Engine oil	7.5 L
Travel reduction gear	2 x 0.8 L
Hydraulic oil tank	SK45SRX 27.9 L tank oil level 58 L hydraulic system
	SK55SRX 27.9 L tank oil level 59 L hydraulic system

# SK45SRX SK55SRX

## Working ranges

Unit: m

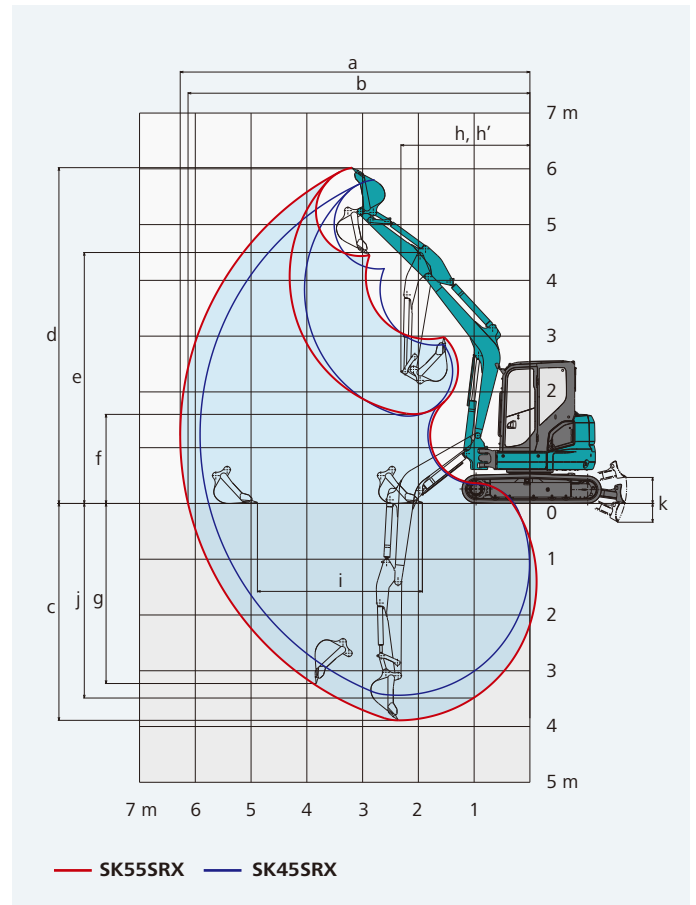
Model	SK45SRX		SK55SRX	
	Cab	Canopy	Cab	Canopy
Arm length	1.55 m		1.69 m	
a- Max. digging reach	5.90		6.27	
b- Max. digging reach at ground level	5.75		6.13	
c- Max. digging depth	3.44		3.89	
d- Max. digging height	5.79	5.86	6.02	
e- Max. dumping clearance	4.19	4.26	4.44	
f- Min. dumping clearance	1.55	1.61	1.60	
g- Max. vertical wall digging depth	3.00		3.23	
h- Min. swing radius at boom straight	2.41	2.36	2.31	
h'- Min. swing radius at boom swing	1.99	1.94	1.90	
i- Horizontal digging stroke at ground level	2.55		2.96	
j- Digging depth for 2.4 m (8') flat bottom	3.05		3.49	
k- Dozer blade (height/depth) (mm)	465/335			

\*Figures in the above table show the value with 0.14–0.16 m<sup>3</sup> ISO heaped bucket. Regarding bucket capacity, 0.14 m<sup>3</sup> in this catalogue is equivalent to 0.12 m<sup>3</sup> in ISO 07451 and 0.16 m<sup>3</sup> in this catalogue is equivalent to 0.13 m<sup>3</sup> ISO 07451.

## Digging force (ISO 6015)

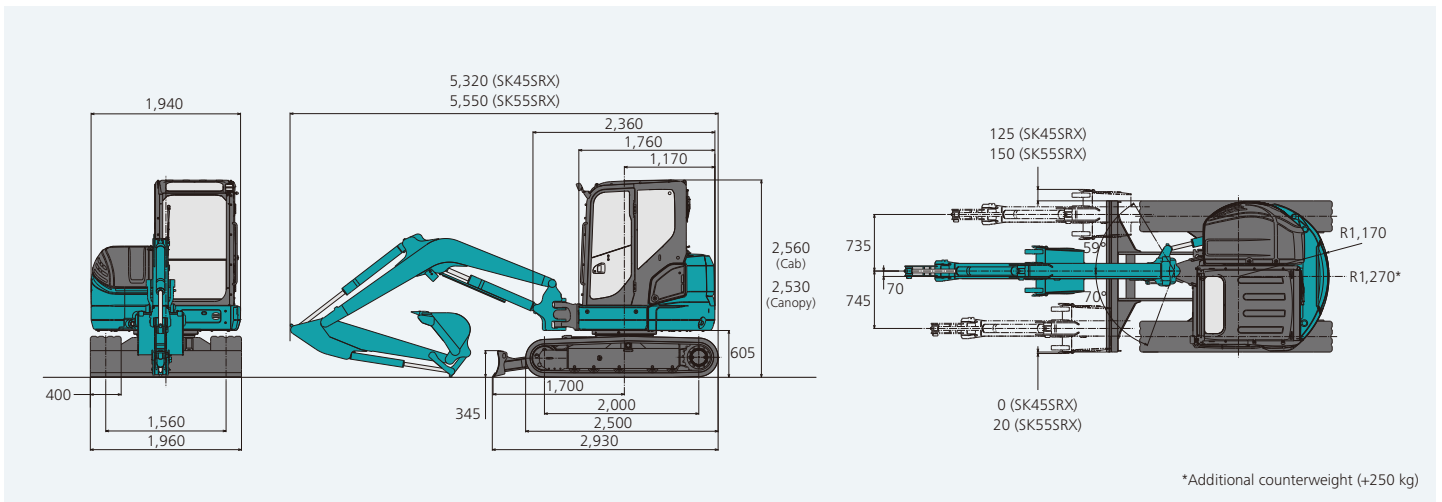
Unit: kN

Model	SK45SRX		SK55SRX	
	Cab	Canopy	Cab	Canopy
Arm length	1.55 m		1.69 m	
Bucket digging force	35.6			
Arm crowding force	20.9		24.8	



## Dimensions

Unit: mm



\*Additional counterweight (+250 kg)













## Operating weight & ground pressure













In standard trim, with standard boom, standard arm, and 0.14 m<sup>3</sup> (100 kg)–0.16 m<sup>3</sup> (110 kg) ISO heaped bucket













Model	SK45SRX				SK55SRX			
	Cab		Canopy		Cab		Canopy	
Shaped	Steel shoe	Rubber shoe	Steel shoe	Rubber shoe	Steel shoe	Rubber shoe	Steel shoe	Rubber shoe
Shoe width mm	400							
Overall width of crawler mm	1,960							
Ground pressure kPa	29.0	27.1	28.2	26.3	31.8	29.6	30.9	28.7
Operating weight kg	4,980	4,810	4,830	4,660	5,450	5,240	5,300	5,090













\*Regarding bucket capacity, 0.14 m<sup>3</sup> in this catalogue is equivalent to 0.12 m<sup>3</sup> in ISO 07451 and 0.16 m<sup>3</sup> in this catalogue is equivalent to 0.13 m<sup>3</sup> ISO 07451.

# Lift capacities

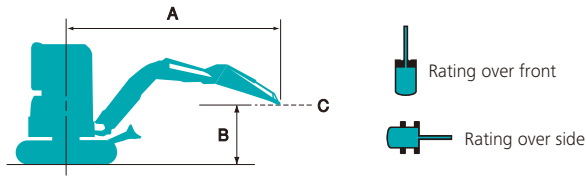
SK45SRX Canopy		Arm: 1.55 m Standard counterweight Rubber shoe: 400 mm												
B	A	1.0 m		2.0 m		3.0 m		4.0 m		5.0 m		At Max. Reach		Radius
														
5.0 m	kg											*1,250	*1,250	2.68 m
4.0 m	kg							*970	830			*880	810	4.03 m
3.0 m	kg					*1,160	*1,160	990	830			750	630	4.70 m
2.0 m	kg					1,520	1,240	950	790	670	560	660	550	5.03 m
1.0 m	kg					1,410	1,140	910	760	650	550	640	530	5.09 m
G.L.	kg					1,360	1,090	880	730			660	550	4.92 m
-1.0 m	kg	*1,860	*1,860	*2,540	2,140	1,360	1,090	880	730			760	630	4.46 m
-2.0 m	kg			2,940	2,200	1,390	1,130					1,070	880	3.58 m

SK45SRX Canopy		Arm: 1.55 m Additional counterweight (+ 250 kg) Rubber shoe: 400 mm												
B	A	1.0 m		2.0 m		3.0 m		4.0 m		5.0 m		At Max. Reach		Radius
														
5.0 m	kg											*1,250	*1,250	2.68 m
4.0 m	kg							*970	950			*880	*880	4.03 m
3.0 m	kg					*1,160	*1,160	1,130	950			*790	730	4.70 m
2.0 m	kg					*1,700	1,420	1,090	920	770	650	770	650	5.03 m
1.0 m	kg					1,620	1,320	1,050	880	760	640	740	620	5.09 m
G.L.	kg					1,570	1,280	1,030	850			770	650	4.92 m
-1.0 m	kg	*1,860	*1,860	*2,540	2,480	1,570	1,270	1,020	850			880	740	4.46 m
-2.0 m	kg			*2,960	2,540	1,610	1,310					1,240	1,020	3.58 m

SK45SRX Cab		Arm: 1.55 m Standard counterweight Rubber shoe: 400 mm												
B	A	1.0 m		2.0 m		3.0 m		4.0 m		5.0 m		At Max. Reach		Radius
														
4.0 m	kg							*970	860			880	850	4.03 m
3.0 m	kg					*1,160	*1,160	1,030	860			790	660	4.70 m
2.0 m	kg					1,580	1,290	1,000	830	700	590	700	580	5.03 m
1.0 m	kg					1,480	1,200	960	800	690	580	670	560	5.09 m
G.L.	kg					1,440	1,160	930	770			700	580	4.92 m
-1.0 m	kg	*1,860	*1,860	*2,540	2,250	1,430	1,150	930	770			800	670	4.46 m
-2.0 m	kg			*2,980	2,310	1,470	1,190					*1,130	*930	3.58 m

SK45SRX Cab		Arm: 1.55 m Additional counterweight (+ 250 kg) Rubber shoe: 400 mm												
B	A	1.0 m		2.0 m		3.0 m		4.0 m		5.0 m		At Max. Reach		Radius
														
4.0 m	kg							*960	*960			*870	870	4.03 m
3.0 m	kg					*1,160	*1,160	*1,150	980			*780	750	4.70 m
2.0 m	kg					*1,700	1,470	1,140	950	800	670	770	670	5.03 m
1.0 m	kg					1,690	1,370	1,100	910	790	660	770	640	5.09 m
G.L.	kg					1,640	1,330	1,070	890			800	670	4.92 m
-1.0 m	kg	*1,850	*1,850	*2,530	*2,530	1,640	1,330	1,070	880			*920	770	4.46 m
-2.0 m	kg			*2,970	2,640	1,670	1,360					*1,280	*1,060	3.58 m

# SK45SRX SK55SRX



A: Reach from swing centreline to arm top  
 B: Arm top height above/below ground  
 C: Lift point  
 Bucket: Without  
 Dozer: Blade up  
 Relief valve setting: 23.0 MPa

SK55SRX Canopy		Arm: 1.69 m Standard counterweight Rubber shoe: 400 mm												
B	A	1.0 m		2.0 m		3.0 m		4.0 m		5.0 m		At Max. Reach		Radius
5.0 m	kg											*1,050	*1,050	3.44 m
4.0 m	kg							*930	*930			960	810	4.52 m
3.0 m	kg							*1,000	970	810	680	780	650	5.10 m
2.0 m	kg					*1,610	1,430	1,120	930	790	670	700	590	5.40 m
1.0 m	kg					1,630	1,320	1,070	880	770	640	680	570	5.47 m
G.L.	kg					1,580	1,270	1,030	850	760	630	700	580	5.30 m
-1.0 m	kg	*1,980	*1,980	*2,490	2,470	1,580	1,270	1,020	840			780	650	4.89 m
-2.0 m	kg	*3,160	*3,160	*3,340	2,530	1,600	1,290	1,050	860			1,000	830	4.13 m
-3.0 m	kg			*1,570	*1,570							*1,120	*1,120	2.61 m

SK55SRX Canopy		Arm: 1.69 m Additional counterweight (+ 250 kg) Rubber shoe: 400 mm												
B	A	1.0 m		2.0 m		3.0 m		4.0 m		5.0 m		At Max. Reach		Radius
5.0 m	kg											*1,050	*1,050	3.44 m
4.0 m	kg							*930	*930			*1,010	910	4.52 m
3.0 m	kg							*1,000	*1,000	910	770	880	750	5.10 m
2.0 m	kg					*1,610	1,610	*1,220	1,050	900	760	800	670	5.40 m
1.0 m	kg					1,850	1,500	1,210	1,010	880	740	770	650	5.47 m
G.L.	kg					1,790	1,450	1,170	970	860	720	800	670	5.30 m
-1.0 m	kg	*1,980	*1,980	*2,490	*2,490	1,790	1,450	1,170	970			890	750	4.89 m
-2.0 m	kg	*3,160	*3,160	*3,340	2,860	1,820	1,470	1,190	990			1,140	950	4.13 m
-3.0 m	kg			*1,570	*1,570							*1,120	*1,120	2.61 m

SK55SRX Cab		Arm: 1.69 m Standard counterweight Rubber shoe: 400 mm												
B	A	1.0 m		2.0 m		3.0 m		4.0 m		5.0 m		At Max. Reach		Radius
5.0 m	kg											*1,050	*1,050	3.44 m
4.0 m	kg							*930	*930			1,000	840	4.52 m
3.0 m	kg							*1,000	*1,000	840	710	810	680	5.10 m
2.0 m	kg					*1,610	1,480	1,160	970	830	690	730	610	5.40 m
1.0 m	kg					1,700	1,370	1,110	920	810	670	710	590	5.47 m
G.L.	kg					1,650	1,320	1,080	890	790	660	730	610	5.30 m
-1.0 m	kg	*1,980	*1,980	*2,490	*2,490	1,650	1,320	1,070	880			820	680	4.89 m
-2.0 m	kg	*3,160	*3,160	*3,340	2,630	1,670	1,350	1,090	900			1,050	870	4.13 m
-3.0 m	kg			*1,570	*1,570							*1,120	*1,120	2.61 m

SK55SRX Cab		Arm: 1.69 m Additional counterweight (+ 250 kg) Rubber shoe: 400 mm												
B	A	1.0 m		2.0 m		3.0 m		4.0 m		5.0 m		At Max. Reach		Radius
5.0 m	kg											*1,050	*1,050	3.44 m
4.0 m	kg							*930	*930			*1,010	940	4.52 m
3.0 m	kg							*1,000	*1,000	950	800	910	770	5.10 m
2.0 m	kg					*1,610	*1,610	*1,220	1,090	930	790	830	700	5.40 m
1.0 m	kg					1,920	1,550	1,250	1,040	910	770	800	680	5.47 m
G.L.	kg					1,860	1,500	1,220	1,010	900	750	830	700	5.30 m
-1.0 m	kg	*1,980	*1,980	*2,490	*2,490	1,860	1,500	1,210	1,000			920	770	4.89 m
-2.0 m	kg	*3,160	*3,160	*3,340	2,970	1,890	1,530	1,230	1,020			1,180	980	4.13 m
-3.0 m	kg			*1,570	*1,570							*1,120	*1,120	2.61 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 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 top defined as lift point.
- The above lift capacities are in compliance with ISO 10567. They do not exceed 87% of hydraulic lift capacity or 75% of tipping load. Lift 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.