

# Specifications

## Engine

Model	YANMAR 4TNV98CT
Type	Four-cycle, liquid-cooled, direct injection diesel, turbo charged, Tier 4 certified
No. of cylinders	4
Bore and stroke	98 mm x 110 mm
Displacement	3.318 L
Rated power output	51.5 kW/2,100 min <sup>-1</sup> (ISO 9249: with fan)
	53.7 kW/2,100 min <sup>-1</sup> (ISO 14396: without fan)
Max. torque	292 N.m/1,365 min <sup>-1</sup> (ISO 9249: with fan)
	296 N.m/1,365 min <sup>-1</sup> (ISO 14396: without fan)

## Hydraulic system

Pump	
Type	Variable displacement piston pumps + One gear pump
Max. discharge flow	2 x 72.5 L/min, 1 x 19 L/min
	Extra gear pump 1 x 48 L/min
Relief valve setting	
Boom, arm and bucket	29.4 Mpa
Travel circuit	29.4 Mpa
Swing circuit	24.5 Mpa
Control circuit	5.0 Mpa
Pilot control pump	Gear type
Main control valves	12-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	11.5 min <sup>-1</sup>
Swing torque	17 kN.m

## Attachments

Backhoe bucket and combination

Use			Backhoe bucket	
			Standard	Narrow
Bucket capacity	ISO heaped	m <sup>3</sup>	0.28	0.22
	Struck	m <sup>3</sup>	0.21	0.18
Opening width	With side cutter	mm	750	650
	Without side cutter	mm	680	580
No. of teeth			4	4
Bucket weight		kg	210	200
Combination	1.71 m arm		⊙	○
	2.13 m arm		△	⊙

⊙ Standard ○ Recommended △ Loading only

## Travel system

Travel motors	Variable displacement piston, two-speed motors
Travel brakes	Hydraulic brake
Parking brakes	Wet multiple plate
Travel shoes	39 each side
Travel speed	5.0 / 2.7 km/h
Drawbar pulling force	77.4 kN (ISO 7464)
Gradeability	58% {30°}

## 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	110 mm x 916 mm
Arm cylinder	95 mm x 839 mm
Bucket cylinder	85 mm x 762 mm

## Dozer blade

Dozer cylinder	135 mm x 129 mm
Dimension	2,300 mm {(for 450 mm shoe) (width) x 460 mm (height)*}
Working range	360 mm (up) x 250 mm (down)

\*Dozer width is changed according to the shoe width difference.

## Refilling capacities & lubrications

Fuel tank	120 L
Cooling system	12.8 L
Engine oil	11.8 L
Travel reduction gear	2 x 1.3 L
Swing reduction gear	1.5 L
Hydraulic oil tank	44 L tank oil level
	84 L hydraulic system

## Working ranges

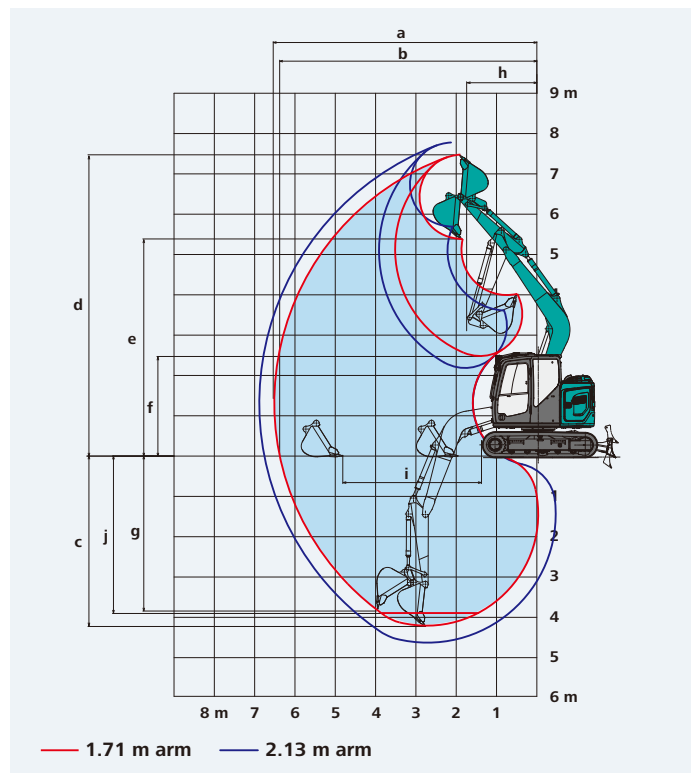
Unit: m

Range	Boom 3.82 m	
	Arm 1.71 m	2.13 m
a- Max. digging reach	6.48	6.88
b- Max. digging reach at ground level	6.35	6.76
c- Max. digging depth	4.16	4.58
d- Max. digging height	7.41	7.75
e- Max. dumping clearance	5.34	5.67
f- Min. dumping clearance	2.46	2.19
g- Max. vertical wall digging depth	3.73	4.14
h- Min. swing radius	1.73	2.13
i- Horizontal digging stroke at ground level	2.83	3.21
j- Digging depth for 2.4 m (8') flat bottom	3.83	4.31
Bucket capacity ISO heaped m <sup>3</sup>	0.28	0.22

## Digging force (ISO 6015)

Unit: kN

Arm length	1.71 m	2.13 m
Bucket digging force	60.3	
Arm crowding force	39.3	35.2



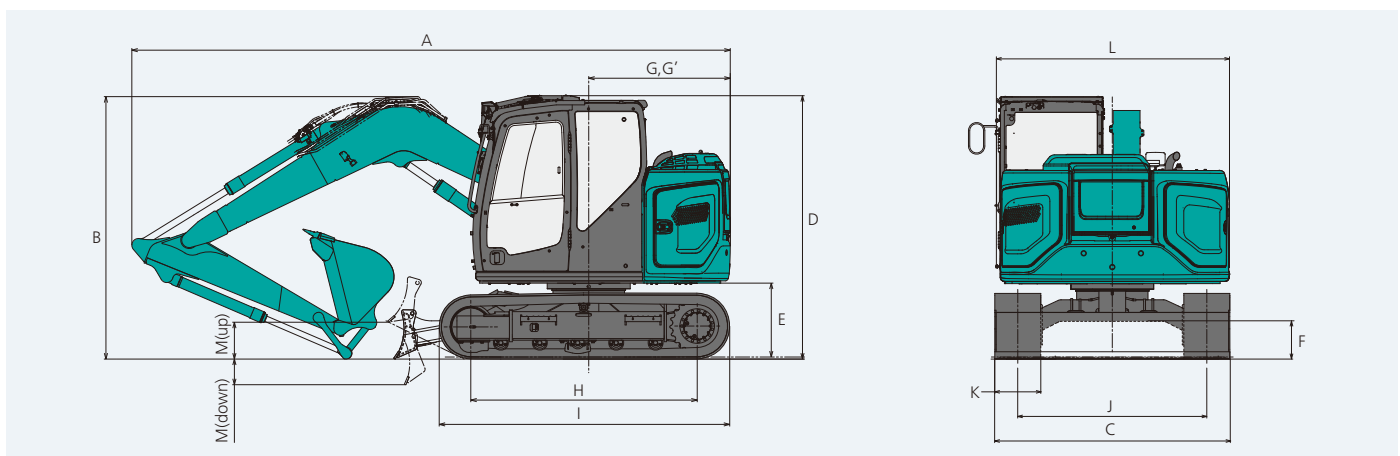
## Dimensions

Unit: mm

Arm length	1.71 m	2.13 m
A Overall length	5,840	6,370
B Overall height (to top of boom)	2,560	2,540
C Overall width	2,300**	
D Overall height (to top of cab)	2,570	
E Ground clearance of rear end*	720	
F Ground clearance*	320	
G Tail swing radius (add on counter weight)	1,380 (1,470)	

G'	Distance from centre of swing to rear end	1,380
H	Tumbler distance	2,210
I	Overall length of crawler	2,830
J	Track gauge	1,850
K	Shoe	450
L	Overall width of upperstructure	2,300
M	Dozer blade (up / down)	360/250

\*Without including height of shoe lug \*\*450 mm shoe

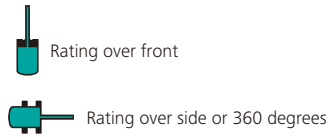
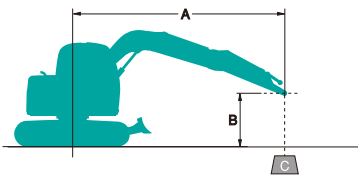


## Operating weight & ground pressure

In standard trim, with standard boom, 1.71 m arm, and 0.28 m<sup>3</sup> ISO heaped bucket

Shaped		Triple grouser shoes (even height)		Rubber shoes
Shoe width	mm	600		450
Overall width of crawler	mm	2,450		2,300
Ground pressure	kPa	27	36	35
Operating weight	kg	8,160	7,920	7,770









# Lift capacities











A: Reach from swing centreline to arm top  
 B: Arm top height above/below ground  
 C: Lift capacities in Kilograms  
 Bucket: Without bucket  
 Relief valve setting: 29.4 MPa (300 kgf/cm<sup>2</sup>)

SK75SR		Arm: 1.71 m Bucket: Without Counterweight: 700 kg Shoe: 450 mm Dozer: Blade up								
B	A	1.5 m		3.0 m		4.5 m		At max. reach		Radius
6.0 m	kg							*2,350	*2,350	2.74 m
4.5 m	kg			*2,410	*2,410			1,820	1,560	4.41 m
3.0 m	kg			*2,920	2,810	1,730	1,480	1,370	1,170	5.18 m
1.5 m	kg			3,060	2,510	1,640	1,390	1,220	1,050	5.44 m
G.L.	kg			2,900	2,370	1,570	1,330	1,250	1,070	5.27 m
-1.5 m	kg	*3,840	*3,840	2,900	2,360	1,560	1,320	1,510	1,280	4.63 m
-3.0 m	kg			*1,340	*1,340			*1,150	*1,150	3.23 m

SK75SR		Arm: 2.13 m Bucket: Without Counterweight: 700 kg Shoe: 450 mm Dozer: Blade up								
B	A	1.5 m		3.0 m		4.5 m		At max. reach		Radius
6.0 m	kg			*2,240	*2,240			*1,930	*1,930	3.47 m
4.5 m	kg			*2,120	*2,120	1,790	1,540	1,530	1,310	4.90 m
3.0 m	kg			*2,640	*2,640	1,740	1,490	1,200	1,030	5.60 m
1.5 m	kg			3,100	2,540	1,630	1,390	1,080	930	5.84 m
G.L.	kg			2,880	2,340	1,540	1,300	1,100	930	5.68 m
-1.5 m	kg	*3,240	*3,240	2,830	2,300	1,520	1,280	1,280	1,080	5.09 m
-3.0 m	kg	*2,700	*2,700	*1,940	*1,940			*1,310	*1,310	3.87 m

SK75SR		Arm: 2.13 m Bucket: Without Counterweight: 700 kg+300 kg Shoe: 450 mm Dozer: Blade up								
B	A	1.5 m		3.0 m		4.5 m		At max. reach		Radius
										
6.0 m	kg			*2,240	*2,240			*1,930	*1,930	3.47 m
4.5 m	kg			*2,120	*2,120	*1,940	1,690	*1,600	1,450	4.90 m
3.0 m	kg			*2,640	*2,640	1,910	1,640	1,330	1,140	5.60 m
1.5 m	kg			*3,400	2,810	1,800	1,540	1,200	1,030	5.84 m
G.L.	kg			3,190	2,600	1,720	1,450	1,220	1,050	5.68 m
-1.5 m	kg	*3,240	*3,240	3,140	2,560	1,690	1,430	1,420	1,210	5.09 m
-3.0 m	kg	*2,700	*2,700	*1,940	*1,940			*1,310	*1,310	3.87 m

SK75SR		Arm: 2.13 m Bucket: Without Counterweight: 1,050 kg Shoe: 450 mm Dozer: Blade up								
B	A	1.5 m		3.0 m		4.5 m		At max. reach		Radius
										
6.0 m	kg			*2,240	*2,240			*1,930	*1,930	3.47 m
4.5 m	kg			*2,120	*2,120	*1,940	1,690	*1,600	1,450	4.90 m
3.0 m	kg			*2,640	*2,640	1,910	1,640	1,330	1,140	5.60 m
1.5 m	kg			*3,400	2,810	1,810	1,540	1,210	1,040	5.84 m
G.L.	kg			3,200	2,610	1,720	1,460	1,230	1,050	5.68 m
-1.5 m	kg	*3,240	*3,240	3,150	2,570	1,690	1,430	1,430	1,220	5.09 m
-3.0 m	kg	*2,700	*2,700	*1,940	*1,940			*1,310	*1,310	3.87 m

1. 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.
2. 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.
3. Arm top defined as lift point.
4. 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.
5. 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.