

**KOBELCO**

SK17SR-3E

**SK17SR**



Complies with the EU Stage V  
exhaust emission regulation

*Built for Perfectionists™*

# COMPACT YET TOUGH MINI



## JAPANESE QUALITY

Mini excavators are widely used on sites where space is restricted, such as in residential areas and industrial premises. Users want big power in a small machine, stability in operation, and rugged construction and durability to reduce downtime. The SK17SR combines a compact design with wide digging reach for efficient performance, excellent maneuverability, and tough durability to ensure an extended working life.

# Compact yet Big Performance

## Short Tail Swing

The combination of side-ditch digging function and short tail radius makes it easy to dig next to walls with a compact operating footprint.

Tail overhang: **95mm (Cab)**  
**0mm (Canopy)**



## Requires about 2.0 m of Working Space

With a 180° working radius of just 2,030 mm, SK175R only needs of space to dig, swing, and load continuously.



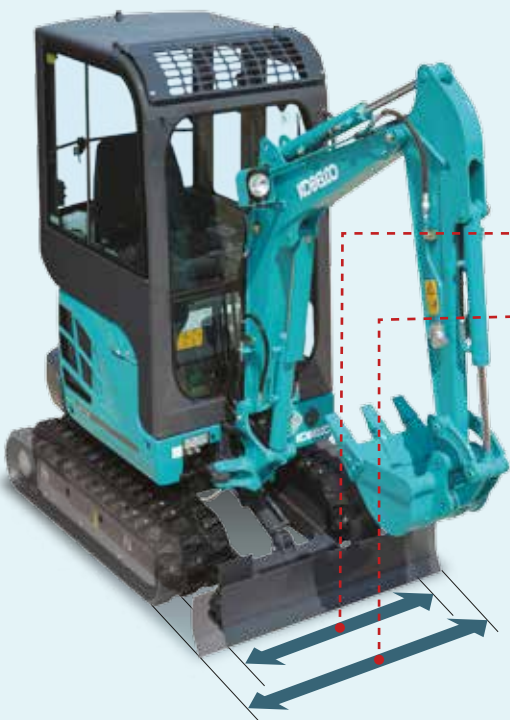
Figures show the value of canopy with long arm (1.2 m).

## Retractable Crawlers

The crawlers can be easily extended and retracted by operating a simple lever. Capable of passing through spaces as narrow as 1 m wide, the SK175R can be used on a wide variety of urban and industrial site.

Retracted: **990mm**

Extended: **1,320mm**



## Easy Extended/Retracted Blade

Dozer blade with pin-type hinge can be easily extended/retracted.

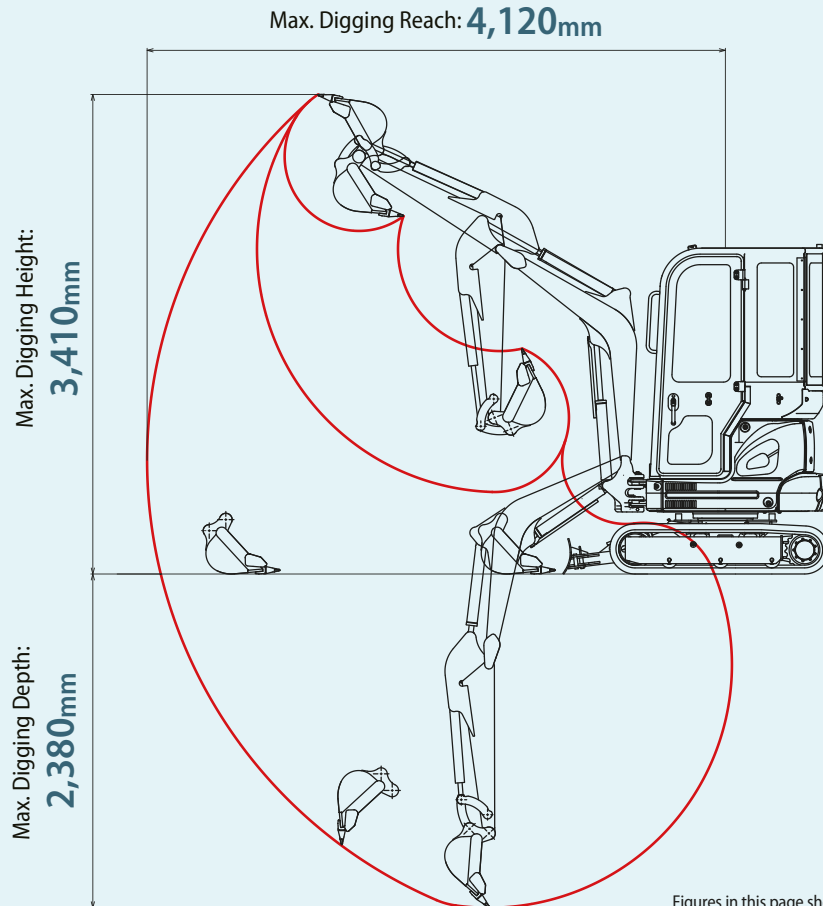


Photos show the dozer blade of SK10SR.

# Great Performance in Tight Places

## Wide Working Range

The SK17SR has plenty of working ranges.



## Boom Swing Angle

The boom swing angles of 65 degrees to the left and 55 degrees to the right for optimized performance when digging pipeline ditches and side walls.

## Reliable Swing Power, Faster Working Speeds

Boosted swing power and a top-class swing speed deliver shorter cycle times.

Swing Speed: **8.6min<sup>-1</sup>**

## Powerful Digging

For more efficient work performance.

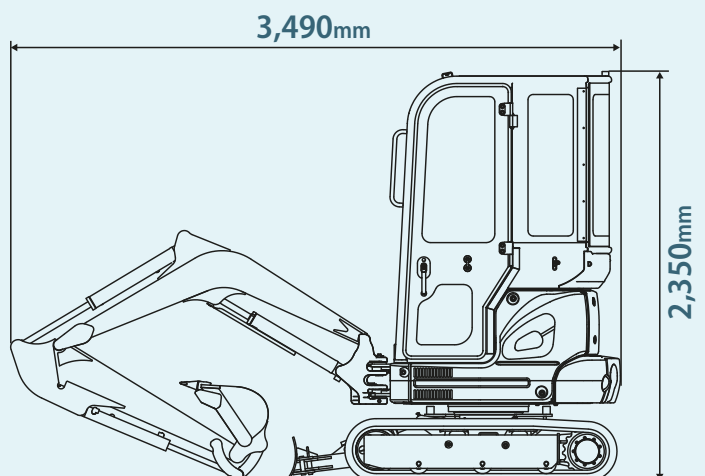
Max. Arm Crowding Force: **8.7kN**

Max. Bucket Digging Force: **15.2kN**

## Easy Transportability

The SK17SR is easily transported on a 2.0-ton truck with plenty of room to spare for the simultaneous transport of a bucket or other attachment.

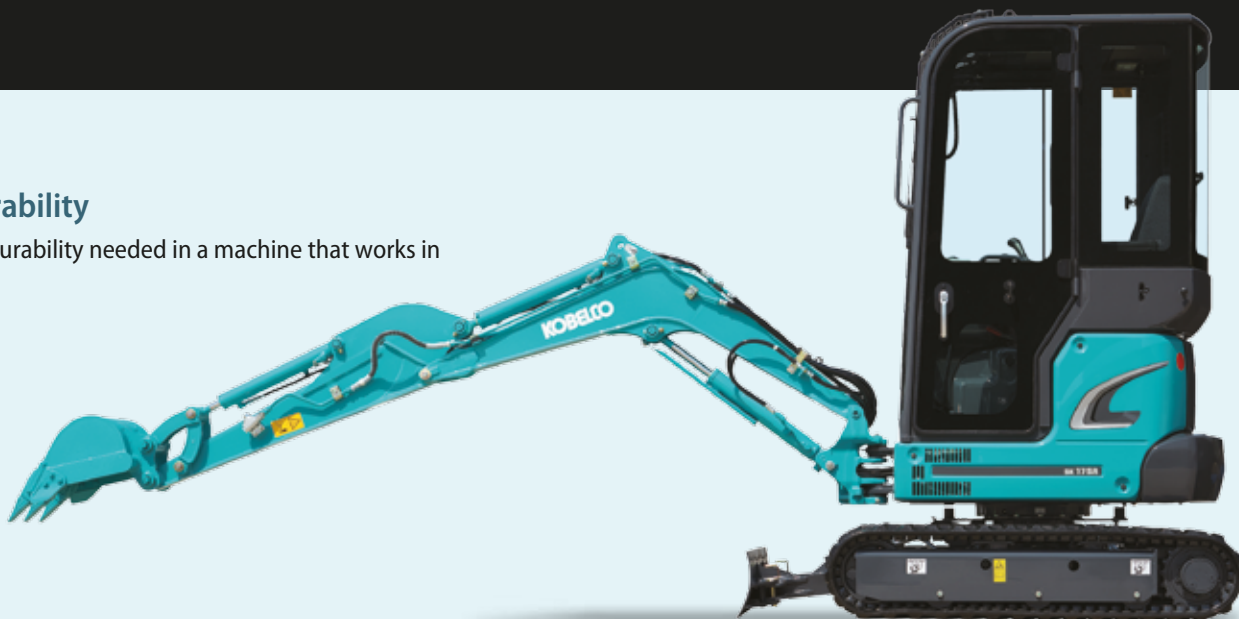
Machine mass: **1,790kg**



# Reliable Construction

## Superior Durability

SK17SR has the durability needed in a machine that works in tight spaces.



### Forged boom top

Forged steel boom top, where it connects to the arm, resists distortion.



### Boom cylinder guard

The cylinder guard is fitted as standard for boom cylinder.



### Joint type dozer hoses

Joint dozer hoses for easy replacement.



### Hydraulic hosing

The hydraulic hosing is housed inside the swing bracket.



# Easy Maintenance

Easier maintenance, with a fully-opening engine hood and equipment that requires the most frequent checks positioned to be readily visible.

## Easy Access to Component Inside the Cab



Two-piece floor mats for easy washing



Oil level gauge

## Easy Access to Engine Compartment (Rear)



Reservoir tank



Water separator



Fuel filter



Air cleaner



Engine oil filter



Fuel tank



## Long-Interval Refilling

The large capacity fuel tank enables continuous operation.

Fuel tank: **22L**

## Long-Interval Maintenance

Long-life hydraulic oil reduces cost and labor.

Long-life hydraulic oil:  
**5,000**  
hours

## Hydraulic Oil Filter

Replacement cycle:  
**1,000**  
hours

# Comfortable Work Environment



Broader floor space gives operators plenty of foot room. Wide operational space is provided with more room between the left and right control consoles.

## Suspension seat

A GRAMMER seat is installed as standard equipment, which achieves excellent shock absorption and superior ride comfort.



## LED Work Light

The work light provides a clear view during nighttime operations.



## Hammer for Emergency Exit



## Easy Access to Control Panel and Levers



Layout of right side console & cluster + LED backlight



Hour meter



12 V outlet



Free switch spots at left side console



Proportional hand control lever for N&B piping (option)  
Precise proportional controls are integrated into the joystick for ease of operation.



Room light



Wrist rest

## Travel Pedal

The travel pedal simplifies simultaneous operations while the machine is traveling.



## Opening/Closing Front Window

The front window features gas damper cylinders for smooth and easy opening and closing.



# SK17SR

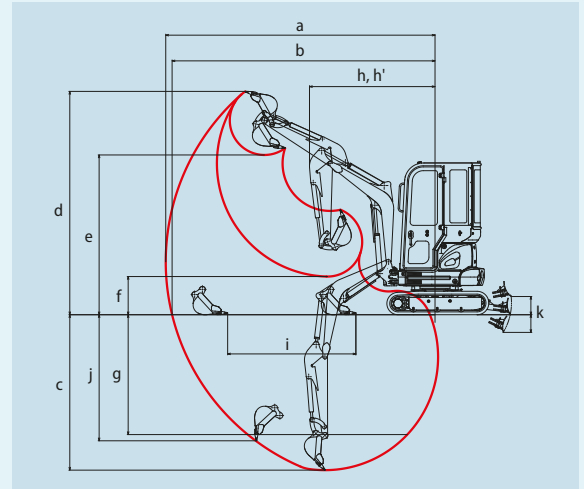
## SK17SR-3E

### SPECIFICATIONS

GENERAL			
MODEL		SK17SR	
Type		SK17SR-3E	
Crawler Shoe		Rubber	Steel
Machine Mass	Cab	kg	1,790
	Canopy	kg	1,660
Bucket Capacity		m <sup>3</sup>	0.044
Bucket Width (with side cutter)		mm	450
Bucket Digging Force		kN	15.2
Arm Crowding Force		kN	8.7
ENGINE			
Model		YANMAR 3TNV70-SYB	
Type		Vertical, 4-cycle water-cooled diesel engine	
Power Output	(ISO 9249)	kW/min <sup>-1</sup>	9.9/2,200
	(ISO 14396)	kW/min <sup>-1</sup>	10.4/2,200
Max. Torque	(ISO 9249)	kW/min <sup>-1</sup>	47.5/1,600
Displacement		L	0.854
Fuel Tank		L	22
HYDRAULIC SYSTEM			
Pump		Tandem variable displacement piston pumps	
Max. Discharge Flow		L/min	2 x 16.3, 11.4
Relief Valve Setting		MPa	21.6
Hydraulic Oil Tank (system)		L	9.0 (23.0)
TRAVEL SYSTEM			
Travel Motors		Variable displacement piston motor	
Parking Brake		Hydraulic	
Travel Speed (high/low)		km/h	4.0/2.0      3.8/1.9
Gradeability		% (degree)	58 (30)
Drawbar Pulling Force		kN	18.7      21.1
CRAWLER			
Shoe Width		mm	230
Ground Pressure	Cab	kPa	29.8
	Canopy	kPa	27.7
DOZER BLADE		mm	990/1,320 x 250
SWING SYSTEM			
Swing Motor		One fixed displacement piston pump	
Parking Brake		Fixed with pin	
Swing Speed		min <sup>-1</sup>	8.6

\* Figures in above table show the value with long arm (1.2 m) specs.

### WORKING RANGES



#### Standard Arm

Unit: mm

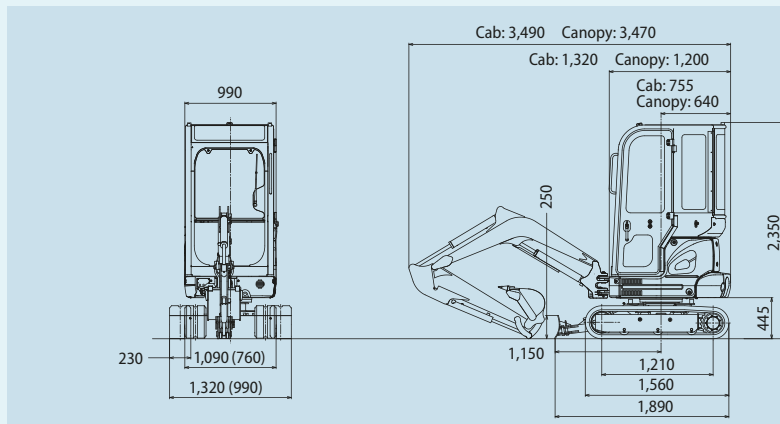
MODEL	SK17SR	
	Cab	Canopy
Arm length	0.98 m	
a- Max. digging reach	3,890	
b- Max. digging reach at ground level	3,790	
c- Max. digging depth	2,150	
d- Max. digging height	3,240	3,680
e- Max. dumping clearance	2,280	2,650
f- Min. dumping clearance	800	1,000
g- Max. vertical wall digging depth	1,660	
h- Min. swing radius at boom straight	1,890	1,560
h'- Min. swing radius at boom swing	1,600	1,260
i- Horizontal digging stroke at ground level	1,700	
j- Digging depth for 2.4 m (8') flat bottom	1,510	
k- Dozer blade (height/depth)	280/270	

#### Long Arm

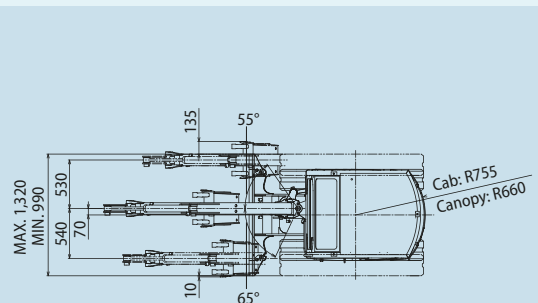
Unit: mm

MODEL	SK17SR	
	Cab	Canopy
Arm length	1.20 m	
a- Max. digging reach	4,120	
b- Max. digging reach at ground level	4,020	
c- Max. digging depth	2,380	
d- Max. digging height	3,410	3,880
e- Max. dumping clearance	2,440	2,850
f- Min. dumping clearance	590	810
g- Max. vertical wall digging depth	1,930	
h- Min. swing radius at boom straight	1,920	1,680
h'- Min. swing radius at boom swing	1,630	1,370
i- Horizontal digging stroke at ground level	1,960	
j- Digging depth for 2.4 m (8') flat bottom	1,830	
k- Dozer blade (height/depth)	280/270	

### GENERAL DIMENSIONS



Unit: mm



\*Figures in ( ) show the value at crawler retracted.

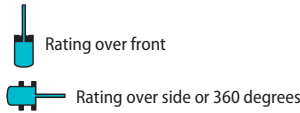
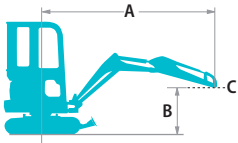
Note: Figures show the value of cab specs with long arm (1.2 m).

### OPTIONAL EQUIPMENT

• N&B (PHC\*) piping • Additional counterweight (+80kg) • Steel shoe • 0.98m arm • Travel alarm

\*Proportional Hand Control

# LIFT CAPACITIES



A: Reach from swing centerline to arm top  
 B: Arm top height above/below ground  
 C: Lift point  
 Relief valve setting: 21.6 MPa

SK17SR Cab		Long arm: 1.2 m Bucket: without Rubber shoe: 230 mm Dozer blade: up														
A \ B		1.0 m		1.5 m		2.0 m		2.5 m		3.0 m		3.5 m		At Max. Reach		Radius
		Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	
2.5 m	kg									250	240			240	240	3.03 m
2.0 m	kg									250	240			200	200	3.32 m
1.5 m	kg							330	320	240	240	180	180	180	180	3.50 m
1.0 m	kg					450	440	310	310	230	230	180	180	170	170	3.58 m
0.5 m	kg					420	410	300	290	220	220	180	170	170	170	3.56 m
G. L.	kg			650	620	400	390	290	280	220	220			180	180	3.47 m
-0.5 m	kg	*700	*700	650	620	400	390	280	280	220	210			190	190	3.27 m
-1.0 m	kg	*990	*990	660	630	400	390	280	280					230	220	2.94 m
-1.5 m	kg	*990	*990	670	650	410	400							*300	*300	2.42 m

SK17SR Canopy		Long arm: 1.2 m Bucket: without Rubber shoe: 230 mm Dozer blade: up														
A \ B		1.0 m		1.5 m		2.0 m		2.5 m		3.0 m		3.5 m		At Max. Reach		Radius
		Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	
3.0 m	kg							320	320					300	300	2.57 m
2.5 m	kg							*300	*300	230	230			230	220	3.03 m
2.0 m	kg							*320	320	230	230			190	190	3.32 m
1.5 m	kg					*420	*420	310	310	230	230	170	170	170	170	3.50 m
1.0 m	kg					420	410	290	290	220	220	170	170	160	160	3.58 m
0.5 m	kg					390	390	280	280	210	210	160	160	160	160	3.56 m
G. L.	kg			610	590	380	370	270	270	200	200			160	160	3.47 m
-0.5 m	kg	*700	*700	610	590	370	370	260	260	200	200			180	180	3.27 m
-1.0 m	kg	*990	*990	620	600	370	370	260	260					210	210	2.94 m
-1.5 m	kg	*990	*990	640	610	390	380							290	290	2.42 m

SK17SR Cab		Standard arm: 0.98 m Bucket: without Rubber shoe: 230 mm Dozer blade: up													
A \ B		1.0 m		1.5 m		2.0 m		2.5 m		3.0 m		At Max. Reach		Radius	
		Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees		
2.5 m	kg											290	280	2.75 m	
2.0 m	kg									250	240	230	230	3.07 m	
1.5 m	kg							330	320	240	240	210	210	3.26 m	
1.0 m	kg					440	430	310	310	240	230	200	200	3.35 m	
0.5 m	kg					420	410	300	300	230	230	190	190	3.34 m	
G. L.	kg			660	640	410	400	290	290	220	220	200	200	3.23 m	
-0.5 m	kg	*870	*870	670	640	410	400	290	290	230	220	220	220	3.01 m	
-1.0 m	kg	*990	*990	680	650	410	410	300	290			270	270	2.64 m	
-1.5 m	kg			*470	*470	*300	*300					*300	*300	2.01 m	

SK17SR Canopy		Standard arm: 0.98 m Bucket: without Rubber shoe: 230 mm Dozer blade: up													
A \ B		1.0 m		1.5 m		2.0 m		2.5 m		3.0 m		At Max. Reach		Radius	
		Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees	Rating over front	Rating over side or 360 degrees		
3.0 m	kg											400	390	2.20 m	
2.5 m	kg							320	320			270	270	2.75 m	
2.0 m	kg							320	320	230	230	220	220	3.07 m	
1.5 m	kg			*720	720	450	440	310	310	230	230	200	200	3.26 m	
1.0 m	kg					420	410	290	290	220	220	180	180	3.35 m	
0.5 m	kg					390	390	280	280	210	210	180	180	3.34 m	
G. L.	kg			630	600	380	380	270	270	210	210	190	190	3.23 m	
-0.5 m	kg	*870	*870	630	610	380	380	270	270	210	210	210	210	3.01 m	
-1.0 m	kg	*990	*990	640	620	390	380	280	280			260	260	2.64 m	
-1.5 m	kg			*470	*470	*300	*300					*300	*300	2.01 m	

**Note:**

- 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 pin is 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.

Note: This catalogue 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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