

# KOBELCO

## SK19



■ Bucket capacity:

0.03 m<sup>3</sup>

■ Engine power:

13.5 kW / 2,100 min<sup>-1</sup> (ISO 14396)

■ Operating weight:

1,880 kg (Canopy)

1,970 kg (Cab)



Complies with the EU Stage V  
exhaust emission regulation

*We Save You Fuel*  
Achieving a Low-Carbon Society

# DO FULL-SIZED JOBS WITH A COMPACT MACHINE

Mini excavators are increasingly popular for work in confined spaces such as residential areas and buildings. But smallness alone doesn't satisfy users who also demand greater stability and first-rate operating performance. The KOBELCO SK19 mini excavator answers these needs with a high-output engine that provides plenty of power for tough, efficient operation. It also delivers excellent stability with superior weight distribution, a well-designed, comfortable cab equipped with an LCD interface, and easy maintenance. These features make the SK19 mini excavator ideal for those who want powerful, basic functions and durable reliability. When you need to do a full-sized job with a compact machine, the SK19 is your answer.

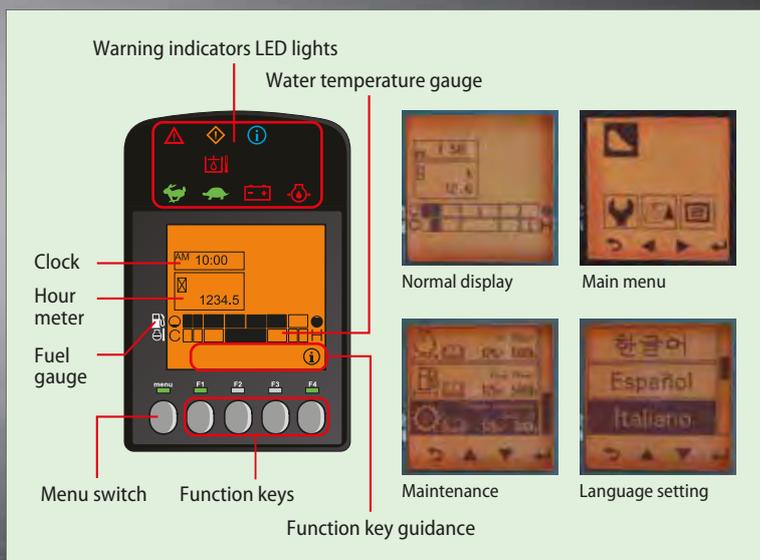


# FUNCTIONAL WORK ENVIRONMENT

Built for simplicity and operator comfort.



Front window providing great visibility



## LCD digital interface

The LCD digital interface is provided as standard. Perfectly integrated into the right-hand console, the screen provides excellent visibility even in bright sunlight or at night, giving ready access to information concerning operation and machine status.



## Excellent air circulation

The SK19 has a forced-air heater that keeps the cab comfortable conditions.



# EXPERIENCING A COMPETENT PERFORMANCE

The Yanmar EU Stage V-compliant engine achieves excellent digging and driving performance and low fuel consumption. In addition, a new hydraulic system has been adopted for improved operability. Lifting capacity has also been improved, making it possible to handle a variety of job sites. Standard auto kickdown travel motors improve travelling comfort.

## >>> Engine output

Increased by **38%**  
(Compared to SK18)

## >>> Travel speed

Improved by **7%**  
(Compared to SK18)

## >>> Lifting capacity

Improved by **24%**  
(Compared to SK18, reach 2.5 m, -0.5 m from ground level, over front)

>>> Bucket digging force

Improved by **10%**  
(Compared to SK18)

>>> Arm crowding force  
(0.96 m short arm)

Improved by **54%**  
(Compared to SK18)



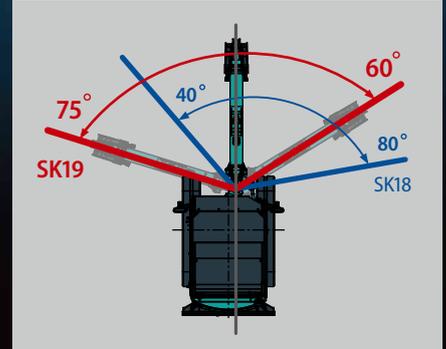
# COMPACT, YET, BIG PERFORMANCE



Tail overhang:  
**400 mm (470 mm)\***

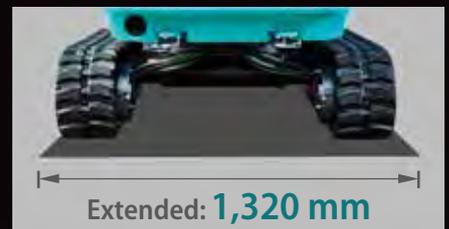
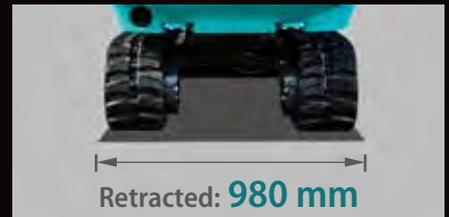
### Short tail swing

The compact tail swing improves operating efficiency in limited space.



### Wide boom swing angle

The boom swing angle has been 12% wider than that of SK18.



### Retractable crawlers

Crawlers can be easily extended and retracted by operating a simple lever.



### Easy extended /retracted blade

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

\*The figures in ( ) show the values with the additional counterweight.

# VERSATILITY

## Various optional piping

A wide range of optional piping is available for a variety of tasks.



**A** Extra piping

**B** N&B piping

**C** Clamshell piping

Clamshell bucket piping can be easily connected.



## Dozer lever

The shape and angle of the dozer lever have been improved to make it easier to grip, and the first and second speed switches have been moved to the dozer lever to improve manoeuvrability when dozing.



## Hydraulic oil flow adjustment

The flow rate can be set arbitrarily by the operator.

# RELIABLE CONSTRUCTION

The boom, arm and swing bracket all have large cross-section segments for added attachment strength.

## ① Cylinder rod guards

The spring steel cylinder rod guards are standard for the bucket and arm cylinders. The use of spring steel not only protects the cylinder rods, but gives resiliency to the guards themselves.

## ② Dozer cylinder guard

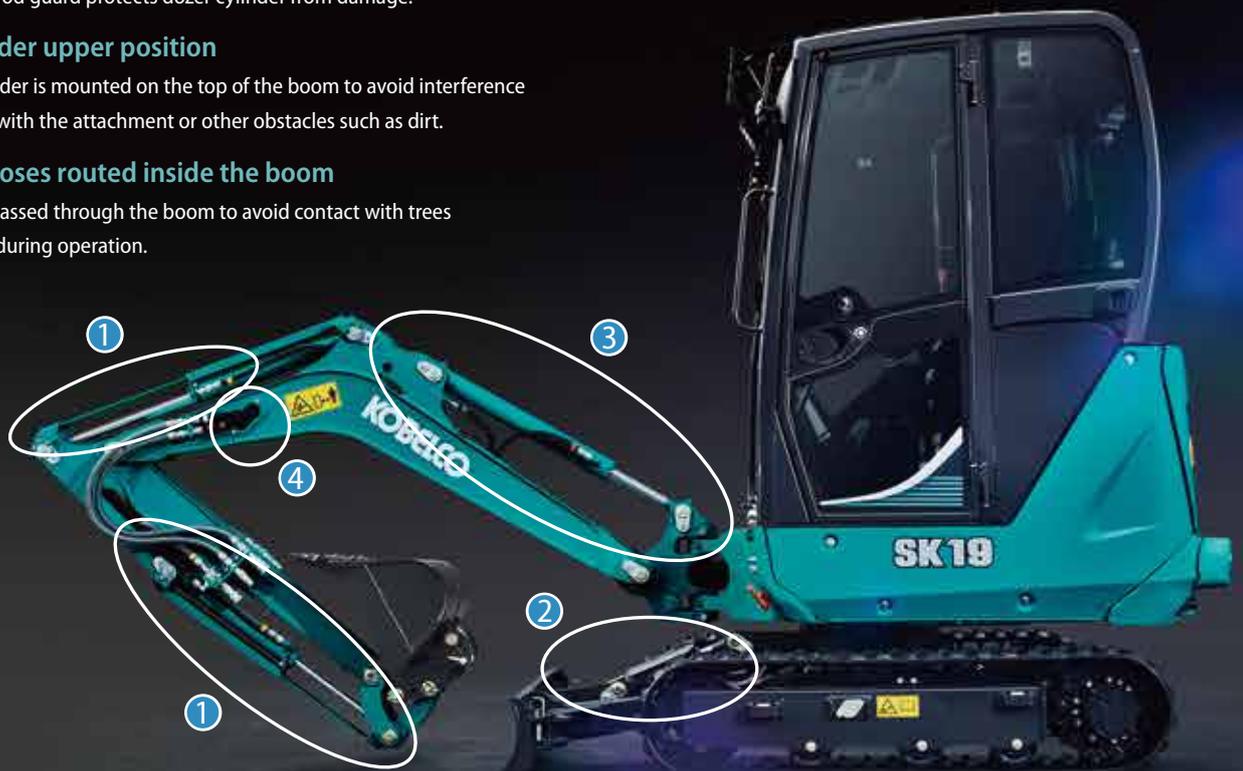
Dozer cylinder rod guard protects dozer cylinder from damage.

## ③ Boom cylinder upper position

The boom cylinder is mounted on the top of the boom to avoid interference of the cylinder with the attachment or other obstacles such as dirt.

## ④ Hydraulic hoses routed inside the boom

The hoses are passed through the boom to avoid contact with trees and structures during operation.



# SAFETY & VISIBILITY

① Cabin and canopy meet ROPS, TOPS and FOPS safety standards.



② LED front lights (optional), rain visor (optional), and rear view mirrors (left & right)



③ LED rear light (optional), LED pluggable orange beacon (optional)



④ LED boom light



⑤ Triangle window

The triangle window in the lower right corner provides a wider view.

# MAINTENANCE

Easy access to engine compartment



① Engine oil filter



② Air cleaner



③ Fuel filter

Easy access to component inside the cab



# OTHER EQUIPMENT



**Cab light** (interior)



**Radio with USB key** (optional for cab)



**Heater switch**



**USB ports**



**12V power supply**



**Cup holder**

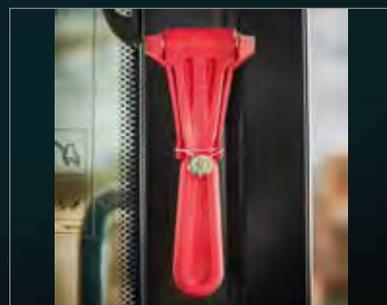


**Right side slide-open window**



**Wrist rests**

Wrist rests on the each control lever box ensure fatigue-free operation.



**Hammer for emergency exit**



**Additional tie down points** (optional)



**Additional counterweight** (optional)



**Front polycarbonate operator protection shield for canopy** (optional)

# Specifications

Model		SK19
Type		SK19
<b>PERFORMANCE</b>		
Shoe type		Rubber
Bucket capacity	m <sup>3</sup>	0.03
Travel speed (high/low)	km/h	4.4/2.4
Swing speed	min <sup>-1</sup>	10.0
Gradeability	degree	30
Traction force	kN	12.9
Bucket digging force	kN	16.7
Arm crowding force (0.96 m short arm)	kN	11.4
Arm crowding force (1.25 m long arm)	kN	9.3

<b>WEIGHT*</b>			
Operating weight	Cab	kg	1,970
	Canopy	kg	1,880
Ground pressure	Cab	kPa	33
	Canopy	kPa	32

\*Includes a 75 kg operator, a 35 kg bucket and a 20 kg mechanical quick hitch.

<b>ENGINE</b>			
Model		YANMAR 3TNV76-QBVA	
Type		Water cooled	
Power output	(ISO9249)	kW/min <sup>-1</sup>	13.1/2,100
	(ISO14396)	kW/min <sup>-1</sup>	13.5/2,100
Max. torque	(ISO9249)	N·kW/min <sup>-1</sup>	63.4-69.2/1,600±150
Displacement		L	1.116
Fuel tank		L	27

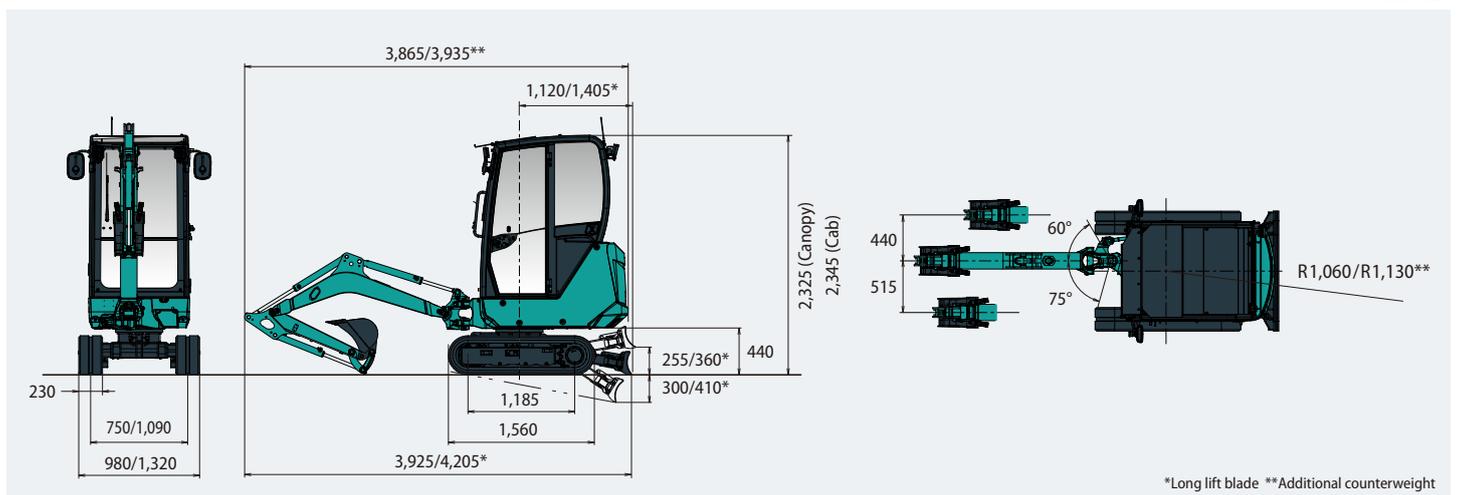
<b>HYDRAULIC SYSTEM</b>			
Pump		Two variable displacement pumps + two gear pumps	
Max. discharge flow	L/min	2 x 17.8, 1 x 16.8, 1 x 9.4	
Relief valve setting	MPa	22.0	
Hydraulic oil tank (system)	L	19.5 (34.3)	

<b>DOZER BLADE</b>			
Width x height	mm	980/1,320** x 235	
Working ranges (height/depth)	mm	255/300	

\*\*Extended

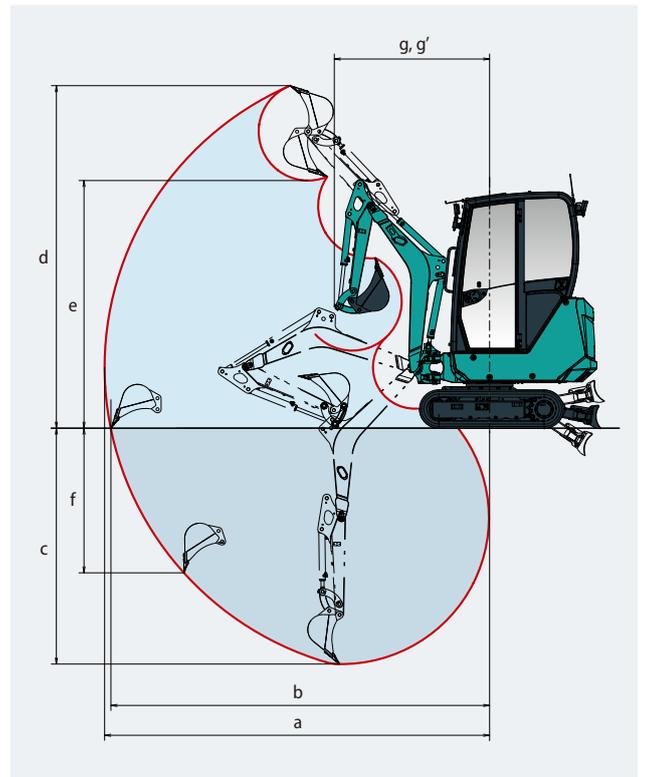
<b>NOISE LEVELS</b>			
LwA (external)	dB(A)	91	
LpA (operator)	dB(A)	79	

## GENERAL DIMENSIONS (0.96 m short arm)



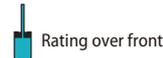
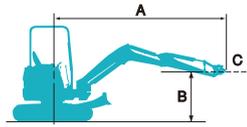
Unit: m

<b>WORKING RANGES</b>	0.96 m Short arm	1.25 m Long arm
a- Max. digging reach	3.91	4.19
b- Max. digging reach at ground level	3.86	4.14
c- Max. digging depth (blade lifted)	2.47	2.76
d- Max. digging height	3.50	3.71
e- Max. dumping clearance	2.57	2.78
f- Max. vertical wall digging depth	1.47	1.66
g- Min. swing radius at boom straight	1.51	1.55
g'- Min. swing radius at boom swing	0.85	0.88



# Lift capacities

# SK19



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: 22.0 MPa

SK19 CAB		Arm: 0.96 m		Shoe: 230 mm		Counterweight: Standard						
		A		2.0 m		2.5 m		3.0 m		At Max. Reach		
B				Rating over front		Rating over side		Rating over front		Rating over side		
				Rating over front		Rating over side		Rating over front		Radius		
2.5 m	kg									*355	*340	2.45 m
2.0 m	kg									*350	*350	2.94 m
1.5 m	kg	*320	*320	*340	*340	*330	*330	*320	*320			3.15 m
1.0 m	kg	*560	*560	*405	*405	*325	*325	*305	*305			3.34 m
0.5 m	kg	*580	*600	*420	*455	*355	*360	*290	*305			3.39 m
G.L.	kg	*605	*605	*465	*465	*355	*355	*290	*290			3.33 m
-0.5 m	kg	*555	*555	*410	*410	*315	*315	*265	*265			3.19 m
-1.0 m	kg	*485	*485	*345	*345			*265	*265			2.94 m
-1.5 m	kg	*380	*380					*260	*260			2.48 m

SK19 CAB		Arm: 0.96 m		Shoe: 230 mm		Counterweight: +50 Kg						
		A		2.0 m		2.5 m		3.0 m		At Max. Reach		
B				Rating over front		Rating over side		Rating over front		Rating over side		
				Rating over front		Rating over side		Rating over front		Radius		
2.5 m	kg									*355	*340	2.45 m
2.0 m	kg									*350	*350	2.94 m
1.5 m	kg	*320	*320	*340	*340	*330	*330	*320	*320			3.15 m
1.0 m	kg	*560	*560	*405	*405	*325	*325	*305	*305			3.34 m
0.5 m	kg	*580	*600	*420	*455	*355	*360	*290	*305			3.39 m
G.L.	kg	*605	*605	*465	*465	*355	*355	*290	*290			3.33 m
-0.5 m	kg	*555	*555	*410	*410	*315	*315	*265	*265			3.19 m
-1.0 m	kg	*485	*485	*345	*345			*265	*265			2.94 m
-1.5 m	kg	*380	*380					*260	*260			2.48 m

SK19 CAB		Arm: 1.25 m		Shoe: 230 mm		Counterweight: Standard						
		A		2.0 m		2.5 m		3.0 m		At Max. Reach		
B				Rating over front		Rating over side		Rating over front		Rating over side		
				Rating over front		Rating over side		Rating over front		Radius		
3.0 m	kg									*265	*265	2.38 m
2.5 m	kg							*205	*205	*290	*290	2.95 m
2.0 m	kg							*265	*265	*290	*290	3.28 m
1.5 m	kg							*285	*285	*285	*285	3.74 m
1.0 m	kg	*395	*395	*360	*360	*320	*320	*280	*280			3.64 m
0.5 m	kg	*615	*615	*440	*440	*365	*365	*280	*280			3.67 m
G.L.	kg	500	*650	*460	*490	*360	*375	*265	*255			3.67 m
-0.5 m	kg	505	*650	*440	*480	*345	*355	*250	*245			3.58 m
-1.0 m	kg	*575	*575	*420	*420	*300	*300	*245	*245			3.26 m
-1.5 m	kg	*460	*460	*320	*320			*235	*235			2.82 m

SK19 CAB		Arm: 1.25 m		Shoe: 230 mm		Counterweight: +50 Kg						
		A		2.0 m		2.5 m		3.0 m		At Max. Reach		
B				Rating over front		Rating over side		Rating over front		Rating over side		
				Rating over front		Rating over side		Rating over front		Radius		
3.0 m	kg									*265	*265	2.38 m
2.5 m	kg							*205	*205	*290	*290	2.95 m
2.0 m	kg							*265	*265	*290	*290	3.28 m
1.5 m	kg							*285	*285	*285	*285	3.74 m
1.0 m	kg	*395	*395	*360	*360	*320	*320	*280	*280			3.64 m
0.5 m	kg	*615	*615	*440	*440	*365	*365	*280	*280			3.67 m
G.L.	kg	*630	*650	*460	*490	*360	*375	*265	*255			3.67 m
-0.5 m	kg	*610	*650	*440	*480	*345	*355	*250	*245			3.58 m
-1.0 m	kg	*575	*575	*420	*420	*300	*300	*245	*245			3.26 m
-1.5 m	kg	*460	*460	*320	*320			*235	*235			2.82 m

SK19 CANOPY		Arm: 0.96 m		Shoe: 230 mm		Counterweight: Standard						
		A		2.0 m		2.5 m		3.0 m		At Max. Reach		
B				Rating over front		Rating over side		Rating over front		Rating over side		
				Rating over front		Rating over side		Rating over front		Radius		
2.5 m	kg									*355	*340	2.45 m
2.0 m	kg									*350	*350	2.94 m
1.5 m	kg	*320	*320	*340	*340	*330	*330	*320	*320			3.15 m
1.0 m	kg	*560	*560	*405	*405	*325	*325	260	*305			3.34 m
0.5 m	kg	500	*600	380	*455	300	*360	250	*305			3.39 m
G.L.	kg	515	*605	390	*465	290	*355	*290	*290			3.33 m
-0.5 m	kg	*555	*555	*410	*410	*315	*315	*265	*265			3.19 m
-1.0 m	kg	*485	*485	*345	*345			*265	*265			2.94 m
-1.5 m	kg	*380	*380					*260	*260			2.48 m

SK19 CANOPY		Arm: 0.96 m		Shoe: 230 mm		Counterweight: +50 Kg						
		A		2.0 m		2.5 m		3.0 m		At Max. Reach		
B				Rating over front		Rating over side		Rating over front		Rating over side		
				Rating over front		Rating over side		Rating over front		Radius		
2.5 m	kg									*355	*340	2.45 m
2.0 m	kg									*350	*350	2.94 m
1.5 m	kg	*320	*320	*340	*340	*330	*330	*320	*320			3.15 m
1.0 m	kg	*560	*560	*405	*405	*325	*325	280	*305			3.34 m
0.5 m	kg	550	*600	415	*455	330	*360	275	*305			3.39 m
G.L.	kg	560	*605	425	*465	320	*355	*290	*290			3.33 m
-0.5 m	kg	*555	*555	*410	*410	*315	*315	*265	*265			3.19 m
-1.0 m	kg	*485	*485	*345	*345			*265	*265			2.94 m
-1.5 m	kg	*380	*380					*260	*260			2.48 m

SK19 CANOPY		Arm: 1.25 m		Shoe: 230 mm		Counterweight: Standard						
		A		2.0 m		2.5 m		3.0 m		At Max. Reach		
B				Rating over front		Rating over side		Rating over front		Rating over side		
				Rating over front		Rating over side		Rating over front		Radius		
3.0 m	kg									*265	*265	2.38 m
2.5 m	kg							*205	*205	*290	*290	2.95 m
2.0 m	kg							*265	*265	*290	*290	3.28 m
1.5 m	kg							*290	*290	*280	*280	3.61 m
1.0 m	kg	*395	*390	*345	*350	*320	*325	225	*280			3.61 m
0.5 m	kg	*590	*590	*435	*450	*345	*355	220	*265			3.64 m
G.L.	kg	475	*620	370	*455	290	*355	*255	*260			3.61 m
-0.5 m	kg	490	*595	355	*430	285	*345	*255	*250			3.54 m
-1.0 m	kg	*525	*525	*405	*405	*290	*290	*240	*240			3.27 m
-1.5 m	kg	*460	*460	*320	*320			*235	*235			2.82 m

SK19 CANOPY		Arm: 1.25 m		Shoe: 230 mm		Counterweight: +50 Kg						
		A		2.0 m		2.5 m		3.0 m		At Max. Reach		
B				Rating over front		Rating over side		Rating over front		Rating over side		
				Rating over front		Rating over side		Rating over front		Radius		
3.0 m	kg									*265	*265	2.38 m
2.5 m	kg							*205	*205	*290	*290	2.95 m
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1.5 m	kg							*290	*290	*280	*280	3.61 m
1.0 m	kg	*395	*390	*345	*350	*320	*325	250	*280			3.61 m
0.5 m	kg	*590	*590	*435	*450	*345	*355	240	*265			3.64 m
G.L.	kg	525	*620	400	*455	320	*355	*255	*260			3.61 m
-0.5 m	kg	535	*595	390	*430	310	*345	*255	*250			3.54 m
-1.0 m	kg	*525	*525	*405	*405	*290	*290	*240	*240			3.27 m
-1.5 m	kg	*460	*460	*320	*320			*235	*235			2.82 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 EUROPE B.V.

## Standard and Optional Equipment

● =Std ○ =Opt

Category	Description	SK19	
Engine	YANMAR 3TNV76-QBVA (EU Stage V compliant)	●	
	Alternator 12 V/40 A	●	
	Starter motor 12 V/1.4 kW	●	
	Battery 1 x 12 V (45 Ah)	●	
	Auto deceleration function and accelerator dial	○	
Hydraulic system	Proportional Hand Control (for N&B piping)	●	
	Proportional Hand Control (for N&B piping) with HFA (hydraulic flow adjustment)	○	
	Proportional Hand Control (for E & N&B piping) with HFA (hydraulic flow adjustment)	○	
	Auto kickdown travel motors	●	
	Hydraulic oil VG46	●	
	Standard spec. biodegradeable hydraulic oil	○	
	Panolin biodegradeable hydraulic oil	○	
Piping	N&B piping	●	
	E & N&B piping	○	
	QH piping	○	
	Clamshell bucket line	○	
	Flat face quick connectors on N&B piping	○	
	Flat face quick connectors on N&B piping + extra or clamshell line	○	
	Flat face quick connectors on N&B piping + extra + clamshell line	○	
	Suspension seat (Canopy: PVC / Cab: fabric) with high backrest	●	
Cabin	LCD digital interface	●	
	Cab heating system (only for Cab)	●	
	Documentation box	●	
	Cup holder	●	
	Adjustable wrist rests	●	
	1 x 12V power supply + 2 x USB 5V charging ports	●	
	Radio with USB key (only for Cab)	○	
	Rain visor (only for Cab)	○	
	Large travel pedals	○	
	Greasing pump support bracket (only for Cab)	○	
	Lights	LED work light: 1 on boom	●
		LED work lights: 2 on Cab top front	○
LED work light: 1 on Cab top rear		○	
1 pluggable LED flashing beacon		○	
Working equipment		Standard boom	●
	Long arm (1.25 m)	●	
	Short arm (0.96 m)	○	
	Dozer blade (980–1,320 mm) with short lifting arms (615 mm)	●	
	Dozer blade (980–1,320 mm) with long lifting arms (891 mm)	○	
	OHK hook	○	
Counterweight	Standard counterweight	●	
	Additional counterweight (+50 kg)	○	
Undercarriage	230 mm rubber shoe	●	
	Adjustable undercarriage (980–1,320 mm)	●	
Safety	ROPS / TOPS / FOPS Level I compliant cab (ISO 12117-2:2008 / ISO 10262:1998)	●	
	ROPS / TOPS / FOPS Level I compliant canopy (ISO 12117-2:2008 / ISO 10262:1998)	○	
	Front polycarbonate guard (only for Canopy)	○	
	Left & right mirrors (only for Cab)	●	
	Retractable seatbelt	●	
	Safety valve for boom, arm and dozer cylinder	○	
	Travel alarm	○	
	4 tie down points on track frames	●	
	4 additional tie down points on turning frame	○	
	Grease pump and tool box	●	
Others	Blade, arm and bucket cylinder guards	●	
	RAL colour	○	

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. Specialist equipment is needed to use this machine in demolition work. Before using it please contact your KOBELCO dealer.

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### KOBELCO CONSTRUCTION MACHINERY EUROPE B.V.

Veluwezoom 15  
1327 AE Almere  
The Netherlands  
www.kobelco-europe.com

Enquiries To: