Note: This catalog 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.
Due to our policy of continuous product improvements all designs and specifications are subject to change without advance notice.

KOBELCO CONSTRUCTION MACHINERY CO., LTD.
5-15, Kitashinagawa 5-chome, Shinagawa-ku, Tokyo 141-8626 JAPAN
Tel: +81 (0) 3-5789-2146 Fax: +81 (0) 3-5789-2135
www.kobelcocm-global.com

Inquiries To:

SK80-10_IND_1K_2406

KOBELCO

SK80

To cities, forests, and all kinds of sites around the world.

Kobelco's innovations have created "earth-friendly construction machines" that play important roles at a diverse range of construction sites throughout the world.
They increase productivity on all types of projects thanks to their power, durability, and outstanding fuel efficiency.
While boasting low fuel consumption, the SK80-10 are state-of-the-art machines that achieve even greater efficiency.
Featuring strong durability and easy maintenance, they're put to powerful use on all kinds of construction sites.
Their high performance exceeds expectations.
Kobelco is focused on the future of the global environment, striving to provide greater work efficiency and reduce life-cycle costs, as well as offering a new sense of value that's ahead of the times.

GENERATION 10

SK80

We’re always pursuing fuel efficiency.

Comfort

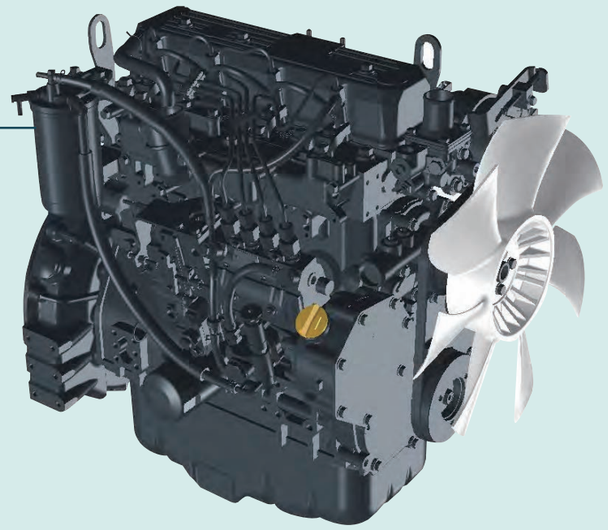
Kobelco’s ECO-mode maximizes the operating efficiency of the engine and other components to achieve much greater fuel efficiency.
Just press a button to choose the operation mode best suited to the task at hand and the working conditions

YANMAR : 4TN98S-BVYB

Rated power output
36.3 kW / 2,100 mim-1

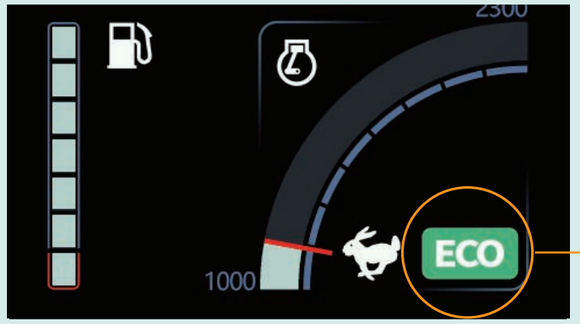
Max. torque
206 ~ 223 N/m

Displacement
3.319 L



ECO-mode: Engineered forEconomy

Kobelco’s ECO-mode maximizes the operating efficiency of the engine and other components to achieve much greater fuel efficiency.
Just press a button to choose the operation mode best suited to the task at hand and the working conditions

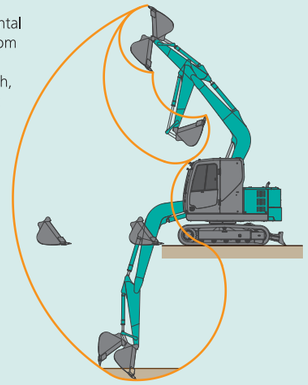


Standard mode
Maximum power for maximum productivity on your toughest jobs

ECO-mode
Minimum fuel consumption forutility projects and other work that demands precision

Speedy combined operations

Combined attachment operations, such as horizontal digging to operate the boom and arm at the same time, are also nimble and smooth, making it possible to work faster.



Sturdy equipmennt

Overall width of dozer：2,320 mm
Dozer that just fits the width of the crawler.

Bucket capacity：0.32 m³ /0.35 m³
Large bucket handles big amount with one stroke.

Smoother Operations.

Fuel Economy

Sturdy equipment

Efficient Productivity And Efficiency

Comfortable Cab For Better Performance.

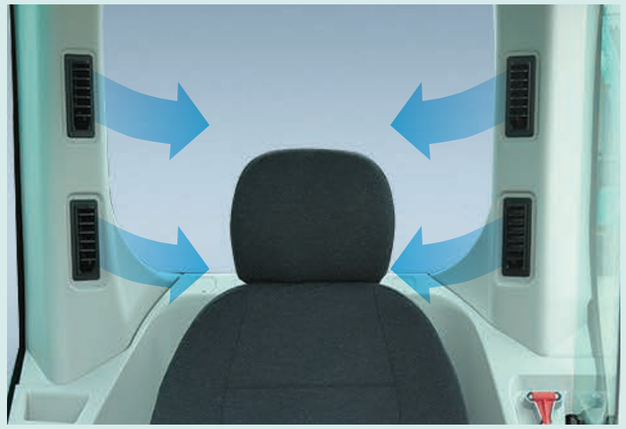
Comfort

Luxurious and large CAB

SK80-10 equips a large cab that is installed in higher-end excavators.
A relaxing environment allows work to be performed in comfort.

Air Conditioner Louvers behind the Seat

The large air-conditioner has vents on the back pillars that blow from behind and to the right and left of the operator's seat.
They can be adjusted to put a direct flow of cool/warm air on the operator, which means a more comfortable operating environment.



More Comfortable Seat Means Higher Productivity

Seat recliner can be pushed back flat

Double slides allow adjustment for optimum comfort

Armrests are equipped with suspension seat as standard

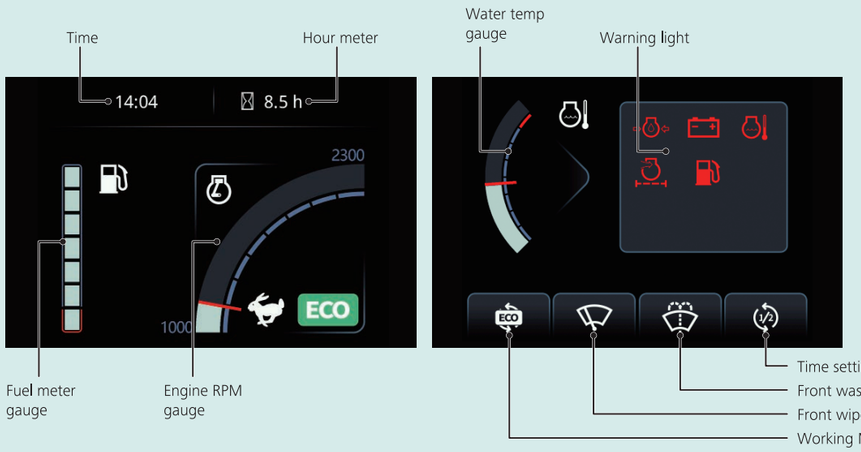
Interior Equipment Adds to Comfort and Convenience

Rubber coated foot pedals

Large cup holder

Large Touchscreen Color Monitor

If there is any problem with the machine, the icons on the display will notice it to the operator.



Super-Airtight Cab

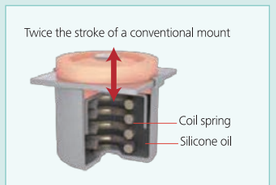
The high level of air-tightness keeps dust out of the cab.

Quiet Inside

The high level of air-tightness ensures a quiet, comfortable cabin interior.

Low Vibration

Coil springs absorb small vibrations, and high suspension mounts filled with silicone oil reduce heavy vibration. The long stroke achieved by this system provides excellent protection from vibration.

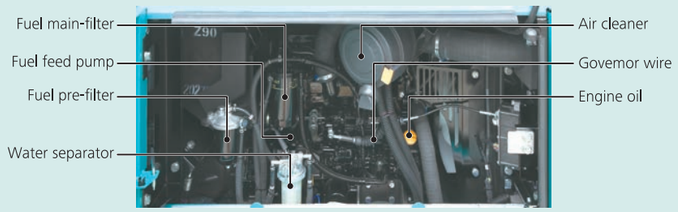


Efficient maintenance to sustain high performance.

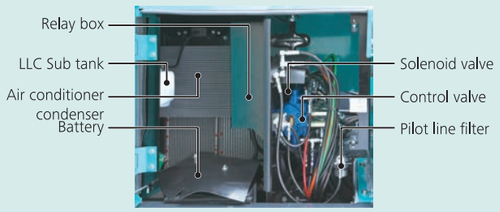
Maintainable on the ground

Portions that require daily maintenance, such as lubrication, have been laid out in easily accessible locations.

Large rear maintenance space



Right side maintenance panel

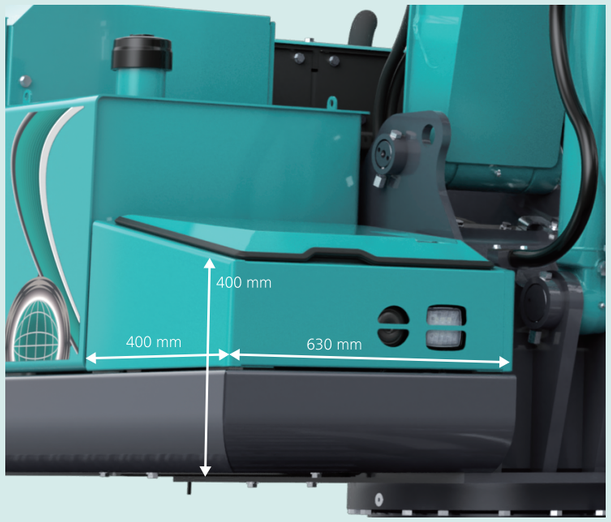


Optional Filter maintenance

The filter is placed on the side of the boom so it can be easily replaced.

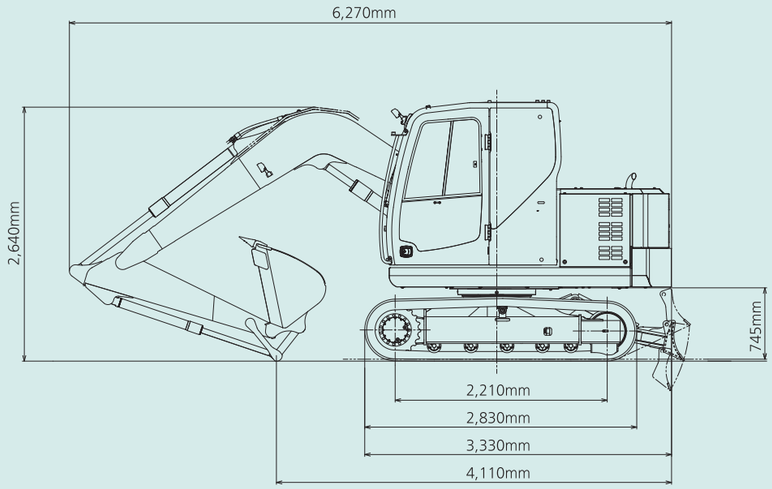
Large capacity storage box

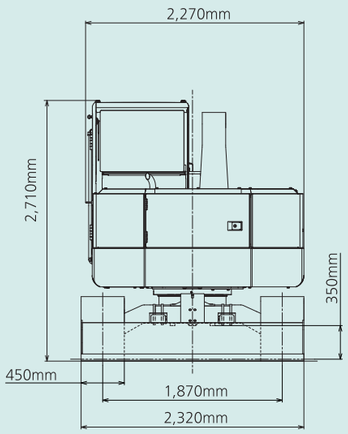
Big storage box that can storage 2 pails with ease.



Transportability

Compact body that can be transported by small truck
The length from the attachment link to the counterweight rear end has been reduced so that it can be mounted on general small trucks.





Engine

Model	YANMAR 4TN98S
Type	Four-cycle, water-cooled, direct injection diesel engine
No. of cylinders	4
Bore and stroke	98.0 mm × 110.0 mm
Displacement	3.319 L
Rated power output	34.8 kW / 2,100 min^{-1} (ISO 9249 : with fan)
	36.3 kW / 2,100 min^{-1} (ISO 14396: without fan)
Max. torque	212 N•m / 1,260 min^{-1} (ISO 9249 : with fan)
	214 N•m / 1,260 min^{-1} (ISO 14396: without fan)

Hydraulic System

Pump	
Type	One variable displacement axial piston pump + pilot gear pump
Max. discharge flow	1 x 126 L/min, 1 x 12.6 L/min
Relief valve setting	
Boom, arm and bucket	29.4 MPa {300 kgf/cm^2}
Travel circuit	29.4 MPa {300 kgf/cm^2}
Swing circuit	24.5 MPa {250 kgf/cm^2}
Control circuit	3.2 MPa {33 kgf/cm^2}
Blade circuit	26.5 MPa {270 kgf/cm^2}
Pilot control pump	Gear type
Main control valve	8-Spool valve
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	10.4 min^{-1}
Swing torque	19 kN•m

Attachments

Backhoe bucket and combination

Type			Backhoe bucket	
Bucket capacity	ISO heaped	m^3	0.32	0.35
	ISO Struck	m^3	0.24	0.26
Opening width	With side cutter	mm	800	855
	Without side cutter	mm	-	-
No. of teeth			4	5
Bucket weight		kg	240	270
Combination	1.71m arm		◎	○

◎ Standard combination ○ Recommended - Not applicable

Travel System

Travel motors	2 × axial-piston, two-step motors
Travel brakes	Hydraulic brake per motor
Parking brakes	Oil disc brake per motor
Travel shoes	39
Travel speed	2.6/4.7 km/h
Drawbar pulling force	82.0 kN (SAE)
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
Dozer lever

Boom, Arm & Bucket

Boom cylinders	110 mm × 916 mm
Arm cylinder	95 mm × 833 mm
Bucket cylinder	80 mm × 735 mm
Dozer cylinder	130 mm × 705 mm

Refilling Capacities & Lubrications

Fuel tank	143 L
Cooling system	9.2 L
Engine oil	11.2 L
Travel reduction gear	2 x 1.3 L
Swing reduction gear	1 x 1.5 L
Hydraulic oil tank	43.0 L tank oil level
	93.0 L hydraulic system

Working Ranges

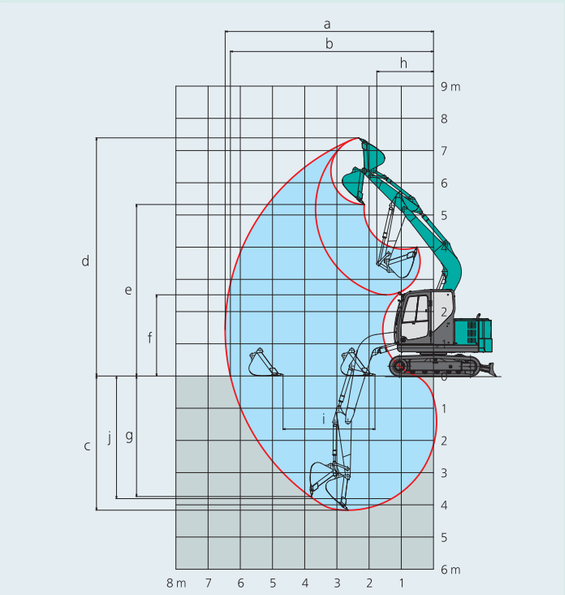
Unit: mm

Boom	3.84m
Arm / Range	Standard 1.71 m
a- Max. digging reach	6,470
b- Max. digging reachat ground level	6,310
c- Max. digging depth	4,170
d- Max. digging height	7,390
e- Max. dumping clearance	5,320
f- Min. dumping clearance	2,520
g- Max. vertical wall digging depth	3,740
h- Min. swing radius	1,790
i- Horizontal digging stroke at ground level	2,850
j- Digging depth for 2.4 m (8') flat bottom	3,810
Bucket capacity ISO heaped m^3	0.32

Digging Force (ISO 6015)

Unit: kN

Arm length	Standard 1.71 m
Bucket digging force	52.7
Arm crowding force	39.4



Dimensions

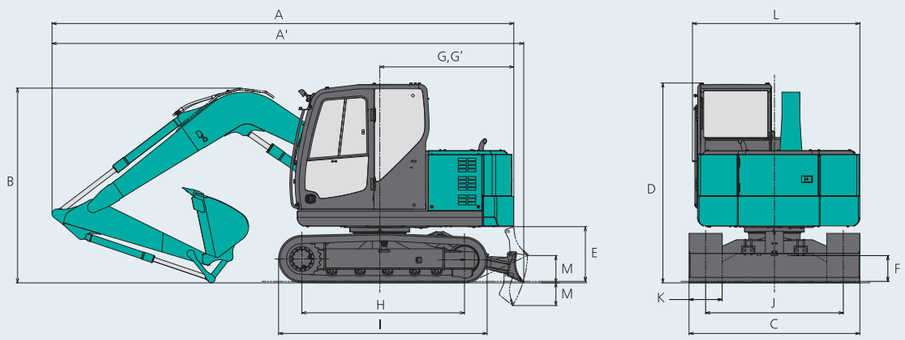
Unit: mm

Arm length		Standard 1.71m
A	Overall length	6,270
A'	Overall length (with dozer blade)	6,410
B	Overall height (to top of boom)	2,640
C	Overall width of crawler	2,320
D	Overall height (to top of cab)	2,710
E	Ground clearance of rear end*	745
F	Ground clearance*	350

Unit: mm

G	Tail swing radius	1,960
G'	Distance from centre of swing to rear end	1,820
H	Tumbler distance	2,210
I	Overall length of crawler	2,830
J	Track gauge	1,870
K	Shoe width	450
L	Overall width of upperstructure	2,270
M	Dozer blade (up / down)	370/310

*Without including height of shoe

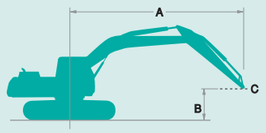


Operating Weight & Ground Pressure

In standard trim, with standard boom, 1.71 m arm, and 0.32 m^3 ISO heaped bucket, triple grouser shoes (even height)

Engine			With air conditioner		Without air conditioner	
Shoe width		mm	450	600	450	600
Overall width of crawler		mm	2,320	2,470	2,320	2,470
Ground pressure	With dozer	kPa	33.4	25.8	33.2	25.7
	Without dozer	kPa	31.5	24.4	31.3	24.2
Operating weight	With dozer	kg	7,440	7,660	7,400	7,620
	Without dozer	kg	7,010	7,240	6,970	7,190

Lift Capacities



Rating over front

Rating over side or 360 degrees

A: Reach from swing centerline to arm top
B: Arm top height above/below ground
C: Lift point
Bucket: Without bucket
Relief valve setting: 29.4 MPa (300 kgf/cm²)

SK80-10		Boom: 3.84 m Arm: 1.71 m Bucket: without Counterweight: 350 kg Shoe: 450 mm Dozer: blade up								
A / B		1.5m		3.0m		4.5m		At max. reach		Radius
										
6.0m	kg							*2,210	*2,210	2.89 m
4.5m	kg			*2,330	*2,330			1,780	1,570	4.47 m
3.0m	kg			*2,910	2,860	1,720	1,510	1,360	1,200	5.19 m
1.5m	kg			3,040	2,570	1,630	1,430	1,230	1,080	5.42 m
G.L.	kg			2,900	2,440	1,560	1,370	1,260	1,110	5.22 m
-1.5m	kg	*4,200	*4,200	2,900	2,440	1,560	1,370	1,550	1,350	4.53 m
-3.0m	kg			*1,340	*1,340			*1,310	*1,310	3.03 m

SK80-10		Boom: 3.84 m Arm: 1.71 m Bucket: without Counterweight: 350 kg Shoe: 450 mm Dozer: blade down								
A / B		1.5m		3.0m		4.5m		At max. reach		Radius
										
6.0m	kg							*2,210	*2,210	2.89 m
4.5m	kg			*2,330	*2,330			*1,820	1,570	4.47 m
3.0m	kg			*2,910	2,860	*2,170	1,510	*1,790	1,200	5.19 m
1.5m	kg			*3,600	2,570	*2,370	1,430	*1,930	1,080	5.42 m
G.L.	kg			*3,620	2,440	*2,380	1,370	*1,960	1,110	5.22 m
-1.5m	kg	*4,200	*4,200	*3,000	2,440	*1,900	1,370	*1,860	1,350	4.53 m
-3.0m	kg			*1,340	*1,340			*1,310	*1,310	3.03 m

Notes:

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 originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.

STANDARD EQUIPMENT

ENGINE
- Engine,Yanmer 4TN98S, diesel engine
- Batteries (2 x 12 V - 80 Ah)
- Starting motor (24 V - 3.5 kW), alternator (24V - 45A)
- Double element air cleaner

CONTROL
- Working mode selector (Standard -mode, ECO-mode)

SWING SYSTEM & TRAVEL SYSTEM
- Swing rebound prevention system
- Straight propel system
- Two-speed travel with automatic shift down
- Sealed & lubricated track links
- Grease-type track adjusters
- Automatic swing brake
- Aluminum hydraulic oil cooler

LIGHTS
- Three front working LED lights (one for boom, one for right storage box, and one for Cab)

CAB & CONTROL
- Two control levers, one dozer lever, pilot-operated
- Cab light (interior)
- Large cup holder
- Detachable two-piece floor mat
- Intermittent windshield wiper
- Tinted safety glass
- Pull-up type front window and removable lower front window
- Easy-to-read large color monitor
- Emergency escape hammer

OPTIONAL EQUIPMENT

- Add one cab LED lights
- Back light
- Rear view mirror
- 0.35m³ bucket
- Luggage tray
- 600 mm steel shoe
- Additional track guides for 450 mm steel shoe (one additional per side)
- Additional track guides for 600 mm steel shoe (one additional per side)
- Automatic air conditioner
- Grease gun
- Tool box

Note: Standard and optional equipment may vary. Consult your KOBELCO dealer for specifics.

MEMO