



Dismantling machine

Complies with the EU Stage V exhaust emission regulation



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Performance

PERFORMANCE – Improved power and speed, and the thorough pursuit of efficiency and productivity. DESIGN – An operator-first design with no compromises on ease of use and comfort. By combining these two principles, KOBELCO's new values have been achieved in the SK140SRD, the new multi-use dismantling machine which has been released with specialized equipment for multi dismantling, and appears in the lineup of 13-ton class minimal tail swing radius machines. KOBELCO aims to be a unique, unforgettable existence from the first experience, and continues to take on new challenges.

Design

To the Next Level of Power and Functional Aesthetics

A High-Output Engine Compliant with the Newest Regulations

The high-performance engine is demonstrated in all operations, and notably allows high-load lifting and pulling to be performed smoothly.

Model: ISUZU 4JJ1XDDV A01

Engine Output

78.5 kW / 2,000 min⁻¹

ISO 14396 : without fan

Large, Easy-to-See 10-Inch Color Monitor

Important information is easy to read, and operations can be performed from a simple menu screen. The camera can also be easily checked from the large screen, contributing to safe operation.



A Jog Dial for Simple Operation

Multiple operations can be performed with the jog dial. They can be performed by simply turning, selecting, pushing, and confirming while navigating through the dial display. All operations can be smoothly performed while wearing gloves.



New Console Tilting for Ease of Access and Exit

The left console has a safety lever to raise the console at a steep angle for ease of access and exit.



Advanced LED Backlights

Switches and dials utilize LED backlighting. This increases visibility at night and improves the ambiance of the interior.



Automatic LED Door Light

The cab is equipped with a bright LED light that automatically lights up when the door is opened and when the key is turned off.



Variety and Individuality. All Parts of the Body are Specialized

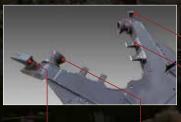
HD Arm for Multi Dismantling Dedicated reinforced HD arm

Multi-Use Dismantling Nibbler

Lightweight design allows for fine movements. Shaped for smooth grabbing, picking, cutting, and pulling.

Clamp Arm

Can secure large objects, and pinch small objects. Using the equipment included with the arm allows work to be performed efficiently.





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Puller Shaped for convenient attachment to a harness. **Grip** Rotates objects forwards or backwards that are grabbed by the clamp.

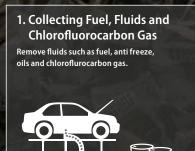


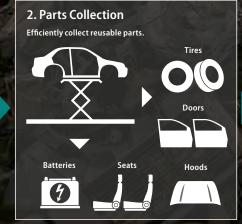
Teeth Allows objects to be crushed or cut.



Ancnor Used to bend long objects.

Dismantling Process Flow Chart How the Car Dismantling Machine Works





3. Collecting undercarriage parts and engines The car is turned to safely collect engine, exhaust system and suspension parts.

diff

Boom Safety Valve Prevent boom from falling if hose is damaged.

for Multi dismantling Work.

Arm Safety Valve Prevent arm from falling if hose is damaged.

HD Boom for Multi Dismantling

Dedicated reinforced boom.

Boom Cylinder Cover

Prevents collisions from damaging the cylinder.

Boom Foot Cover / Center Cover

Prevent metal fragments from entering the cab.

The large skylight glass is equipped with a top guard.

• Double-sided grid type guard with a holder for work boots

Cab for Multi Dismantling

< Dedicated Equipment >

• FOPS Level II top guard

• Cab entry step

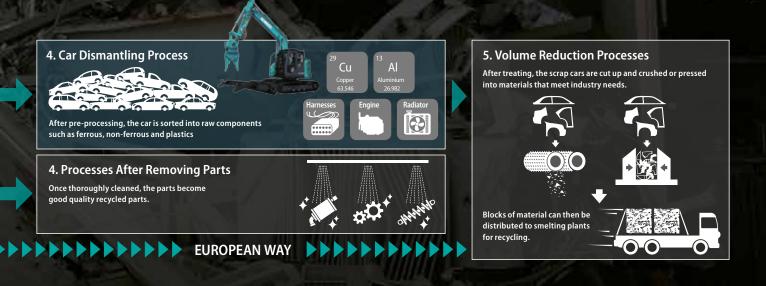
SK 140 SRD

Counterweights + Additional Weights

• 4-inch armrest

For maintaining the ideal balance.

• Air suspension seat



A Multi-Dimensional Approach for Improved Reliability and Durability

HD Boom for Multi Dismantling

The new boom was developed specially for multi dismantling. Thick plates are used in each part, and the cross section is also large.

HD Boom The sections highlighted in yellow indicate the parts with a dedicated design.

OBEICO

Dedicated Frame for Multi Dismantling

Due to the heavy counterweight and clamp arm of this machine, the swing area is redesigned and strengthened for longevity.



Damage-Resistant Center Cover for the Clamp Arm

The strength was improved by using a thick plate and changing the shape of the center cover that protects the opening/closing mechanism for the clamp arm. The newly designed guard protects the nibbler from deformations due to collisions.



Equipment - Center Cover / Boom Foot Cover

Stops metal fragments from entering the machine from the foot of the boom and prevents the occurrence of hydraulic issues.



Center Cover



Boom Foot Cover

Renewed Usability and Comfort, Improved Work Efficiency

Air Suspension Seat with heating



An air suspension sheet manufactured by the German GRAMMER AG comes as standard equipment. It has superior shock absorption and can be used for long periods of time without causing fatigue. The included armrest is 4 inches wide

PHC Lever for Simultaneous Operations

The PHC (Proportional hand control) lever is with a slide switch on the left and right grips for opening/closing and rotating the nibbler. Fine movements can be easily performed, and clamp-arm movements can be performed simultaneously in combination with the foot pedal for increased work efficiency.

sx 140SRD

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Equipment that Improves Time Spent in the Cab

Smartphone Holder



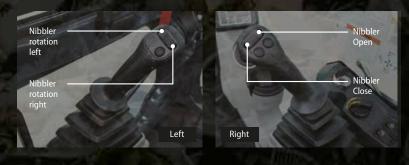
DAB+ Radio (FM/AM & AUX & USB & Bluetooth[®] & Hands Free Telephone)

Bluetooth^{} is a registered trademark of the Bluetooth SIG Inc.



12 V Power Supply / USB Port





Stress-Free Work Performance

Superior Stability

580kg of weights in addition to the counterweights are included as standard equipment. High stability means less rocking of the body and more efficient operation.

A New Hydraulic Control System with **Improved Operability**

Compared to regular excavators, the small stroke lever allows quick and accurate movements.



Functions and Equipment Designed for the Protection of Operators and Workers

Cab-Interference Prevention Apparatus that Prevents Collisions with the Nibbler

Angle sensors in the boom, arm, and idler link calculate the position and orientation of the multi-use dismantling nibbler. If the nibbler gets close to the cab, a warning will be displayed on the screen, and it will automatically stop if it enters the interference-danger zone.







Arm-Angle Senso







A Front-Side Polycarbonate Guard is Available as an Option

block even small fragments. It has scratch resistance to maintain a clear view.

* Cannot be attached to the optional wire mesh guard.



Cab for Multi dismantling that Includes a Top Guard A new cab with a wiper and a large, glass skylight for a wide upper view. Standard

equipment consists of a double-sided, radiator-shaped grid guard on the front, which does

not obstruct the operator's field of vision, and another guard on the top. The front and right-side windows have shatterproof film applied. This protects the operator from scattering metal fragments.



This high-strength guard can

Work Visibility for Quickly Confirming Safety

LED Lights for Improving Work Visibility

The excavator is equipped with bright LEDs on both sides of the boom, in 2 places on the top of the cab, and on the upper right of the body to ensure sufficient work visibility when working at night, during dusk, or when working inside.



2 Lights On the Boom

2 Lights On the Cab



Rear and Right-Side Images / Eagle-Eye View

The body has cameras on the rear, right, and left sides. The large color monitor can be used to check the safety of the rear and right sides which cannot be seen directly. Selectable camera displays include the simultaneous rear- and right-side (direct or right-rotated) view, the simultaneous top-down rear and right side view, and the eagle-eye view, which adds the left and shows all three directions simultaneously.







Top-Down View

Rear Camera



Left Camera





Right Camera







Stand-Out KOBELCO-Exclusive Technology on Multi-Dismantling Work Sites

Integrated Noise & Dust Cooling System

Great Dust and Heat Protection

The iNDr filter stops dust from entering the machine, preventing radiator clogs and maintaining cooling performance. The iNDr filter has a shape that does not clog easily, and it can be used for long periods of time without overheating.

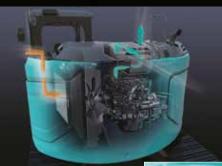
Superior Maintainability

Daily maintenance of the iNDr filter consists of simply a visual check. Cleaning is only necessary when significantly dirty. The filter can be easily removed without the need for tools, reducing the burden on workers and the time required for cleaning.

Impressively Quiet

KOREIM

The sound of the engine and cooling fan is reduced in the cab, and the unique absorptive structure achieves a high degree of silence. When operating inside, sounds are not sustained in the cab, and when working outside, the bother of nearby noise is minimized, reducing the stress of the operator.



The high-density mesh iNDr filter has a wave-shaped screen design which is resistant to clogging.



Equipment Designed Specifically for Multi dismantling



Bottom Cover of the Upper Body Prevents objects from piercing the excavator from the bottom and protects internal components.



Ground level Urea tank Urea filter cap is placed on the step for easy access.



Under Cover of the Lower Body The bottom surface of the lower car body is equipped with a steel-plate cover that protects the hydraulic travel system.



A steel-plate guard is equipped to protect the boom cylinder rod from scattering-metal fragments.



Microphone & Speaker Verbal communication can be made outside of the cab in an easy-to-understand way thanks to the high-sensitivity microphone.



Cab Entry Step Equipped with a large step to make entering or exiting the driver's seat easy.



Shoe-Holding Cab Guard

This space was added to hold work boots in

order to keep the floor of the cab clean.

Remote Fuel Drain Cock Allows fuel to be drained without the need for excessive body contortions.



Refueling Pump You can easily refuel without lifting the fuel carrying tank.

Specifications

Engine

Model	ISUZU 4JJ1XDDV A01	
Туре	Four cycle, water cooled, overhead camshaft, vertical in-line, direct injection type, with turbo-charger. EU stage V certified.	
No. of cylinders	4	
Bore and stroke	95.4 mm x 104.9 mm	
Displacement	2,999 ml	
Power output	71.3 kW / 2,000 min ⁻¹ (ISO 9249 : with fan)	
	78.5 kW / 2,000 min ⁻¹ (ISO 14396 : without fan)	
Max. torque	354 N·m / 1,800 min ⁻¹ (ISO 9249 : with fan)	
	375 N·m / 1,800 min ⁻¹ (ISO 14396 : without fan)	

Hydraulic System

Pump		
Туре	Double variable displacement axial piston pumps with a gear pump	
Max. discharge flow	2 x 130 L/min	
Max. discharge now	1 x 59.8 L/min	
Relief valve setting		
Excavating circuits (main)	34.3 MPa	
Travel circuit	34.3 MPa	
Swing circuit	28.0 MPa	
Pilot control circuit	5.0 MPa	
Nibbler (Crusher) circuit	Open & Close 24.5 MPa Rotation 20.6 MPa	
Clamp arm circuit	Open & Close 24.5 MPa Up & Down 24.5 MPa	
Main control valve	12-spool	
Oil cooler	Air cooled type	

Swing System

Swing motor	One fixed displacement piston pump	
Parking brake	Wet multiple plate	
Swing speed	11.0 min ⁻¹	
Swing torque	40.4 kN•m (SAE)	
Tail swing radius	1,610 mm	
Min. front swing radius	2,240 mm	

Travel System

Travel motors	Variable displacement axial piston type x 2 pcs with counter balance valve
Travel brakes	Hydraulic brake
Parking brakes	Wet multiple plate
Travel shoes	44 each side
Travel speed	5.6 / 3.4 km/h
Drawbar pulling force	138 kN (SAE J 1309)
Gradeability	70% {35°}



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 and two padals for operation		
Rotary-type electric throttle		
Noise levels		
External	99 dB (A)	
Operator	74 dB (A)	

Refilling Capacities & Lubrications

Fuel tank	186 L
Cooling system	17.0 L
Engine oil	17.0 L
Travel reduction gear	2 x 2.1 L
Swing reduction gear	1.65 L
Hydraulic oil tank	89.9 L (tank oil level)
	192 L (hydraulic system)
Urea tank	26.0 L

Clamp arm ability

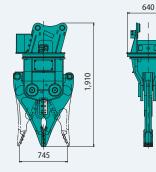
Crushing force (clamp arm tooth for rear)	324 kN
Crushing force (clamp arm tooth for front)	216 kN
Clamping force (clamp arm grip)	137 kN

Operating Weight & Ground Pressure

Shoe width	500 mm
Ground pressure	64 kPa
Operating weight	20,500 kg

Front Attachment

Model		KHE750PR-2
Weight		970 kg
Shearing force (blac	le center)	255 kN
Crushing force (toot	h-jaw tip)	88.3 kN
Operating pressure	Open/close	24.5 MPa
	Rotation	20.6 MPa







Unit : mm R1,490 9,080 2,240 LINI Я 610 9,960 10,750 2,480 1,600 3,510 1,000 ſ 2,860 ,890 820 4,150 3.640 *The area inside the blue line is 500 the interference-danger zone of 790 1,990 2.870 the cab. 2,490 3,580 7,440



Total Support for Machines with Network Speed and Accuracy

KOMEXS is a satellite-based system for receiving machine information. Manage your machines anywhere in the world using the Internet. Location, workload and diagnostic data aid business operations.

Direct Access to Operational Status

Location Data

Accurate location data can be obtained even from sites where communications are difficult.

Operating Hours

A comparison of operating times of machines at multiple locations shows which locations are busier and more profitable.

Operating hours on site can be accurately recorded, for running time calculations needed for rental machines, etc.

Fuel Consumption Data

Data on fuel consumption and idling times can be used to indicate improvements in fuel consumption.

Graph of Work Content

The graph shows how working hours are divided among different operating categories, including digging, idling, traveling, and optional operations (N&B).



Maintenance Data and Warning Alerts

Machine Maintenance Data

Provides maintenance status of separate machines operating at multiple sites. Maintenance data is also relayed to KOBELCO service personnel, for more efficient planning of periodic servicing.

Security System

Engine Start Alarm Sends a notification if the engine is started outside of pre-defined hours.

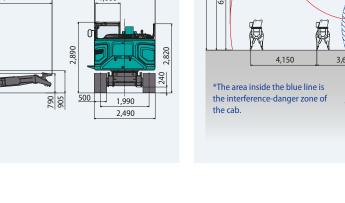
Area Alarm

Sends a notification if the machine leaves a pre-defined area.

Working Ranges

Unit : mm

,780



Standard and Optional Equipment

●=Std ○= Opt

Category	Description	SK140SRD-7
Engine	ISUZU 4JJ1XDDV A01 (EU Stage V compliant)	•
Liigine	Exhaust DPF SCR system	•
	Alternator 24 V/50 A	•
	Starter motor 24 V/4 kW	•
	Batteries 2 x 88 Ah	•
	Fan suction type cooling system	•
	Auto deceleration function	•
	Auto Idle Stop (AIS)	•
Hydraulic system	3 work modes H, S, Eco	•
	Pressure release function	•
	Auto warm up system	•
	Proportional Hand Control (for Rotation & Nibbler piping)	•
	Hydraulic oil VG32	•
	Hydraulic oil VG46	0
	Hydraulic oil VG68	0
Piping	Rotation & Nibbler piping + safety valve (boom & arm cylinder)	•
Cabin	Air suspension seat with heating	•
	10-inch colour monitor	•
	LED door light	•
	Air-conditioner	•
	DAB+ radio (FM/AM & AUX & USB & Bluetooth [®] & hands-free telephone)	•
	Harness for CAB four lights and CAB yellow flasher	
	12 V power supply	
	Sun screen	0
	Cab entry step	
	Work boots tray	•
Lights	LED work lights ; 2 on boom & 1 on upper frame & 2 on Cab top front	•
Working equipment	Standard HD boom (4.68 m)	•
5	Standard HD arm (2.38 m)	•
	Clamp arm	•
	Nibbler KHE750PR-2	0
Counterweight	Additional counterweight (+580kg)	•
Undercarriage	500 mm GD shoe	
, , , , , , , , , , , , , , , , , , ,	500 mm flat shoe	0
	500mm bolt on rubber pad shoe (with GD shoe)	0
	Lower frame guard	•
Safety	Engine emergency stop switch	•
	Pump emergency mode (KPSS release switch)	•
	Emergency accel dial	
	Emergency manual valve for lowing attachment	
	Safety valve for boom & arm cylinder	
	Cab interference prevention system	
	OPG Level II top guard (ISO 10262:1998)	
	OPG Level II front guard (ISO 10262:1998)	
	Wire mesh type front guard	0
	Cab front polycarbonate guard	0
	Eagle-eye view camera (Rear, Right, Left)	
	Seatbelt indicator on display	
	Travel alarm	0
	Microphone & speaker	•
Others	Refueling pump	•
	Dustproof fuel tank cap	•
	Harness for engine room light	•
	Boom cylinder guard	•
	Boom foot cover	•
	Ral color	
	KOMEXS	

Note: Standard and optional equipment may vary. Consult your KOBELCO dealer for specifics. Bluetooth^{*} is a registered trademark of the Bluetooth SIG Inc.

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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