Standard/Optional Equipment

SK210D						
SK210D-10						

■ Major accessories o:	Standard equipment, \bigcirc : Optional equ
Model name	SK210D
Use	Multi-dismantling machine
Main piping	
Boom & arm holding valve	0
● Cab	
Front-guard (vertical guard) with shatterproof film + top guard level II (Meets ISO10262)	0
Front-guard (mesh guard) with shatterproof film + top guard level II (Meets ISO10262)	0
● Boom	
HD boom	0
● Arm	
HD arm	0
● Shoe	
23.6" (600 mm) flat shoes	0
23.6" (600 mm) triple grouser shoes	0
Counterweight	
Car dismantle counterweight with rear work light and swing flasher	0
Lower attachment	
Open/close type clamp arm	0
● Seat	
Suspension seat with armrests	0
Air suspension seat with armrests	0
Cab guard	
Cab front guard (polycarbonate)	0
Front attachments	
KVE720PR	0
Factory options	
Additional right camera + additional monitor	0

■ Dedicated accessories

Dedicated accessories
Dedicated upper frame
A/C condenser protective dust screen
Dust-proof fuel tank cap
Cab two lights
Cab guard with space for storage
Cab climbing step
Loudspeaker system
3-button lever grip
Cab interference prevention system
Reinforced upper main body undercover
Dedicated car dismantle frame
Lower frame step
Boom cylinder guard
Dismantling arm cylinder
Dismantling bucket cylinder

■ Standard equipment

Hydraulic fluid filter restriction indicator
Travel alarm
Radio
AUX, USB, Bluetooth
12 V power source
4-inch armrest
3-inch retractable seatbelt
Rear view camera
Reinforced travel motor cover
Car body undercover
Arm rock guard









Note: This document may contain attachments and optional equipment that are not available in your area. It may also contain photographs of machines with specifications that differ from those sold in your area. Please contact your nearest KOBELCO dealer for items you require.

Due to our policy of continuous product improvement, all designs and specifications are subject to change without advance notice

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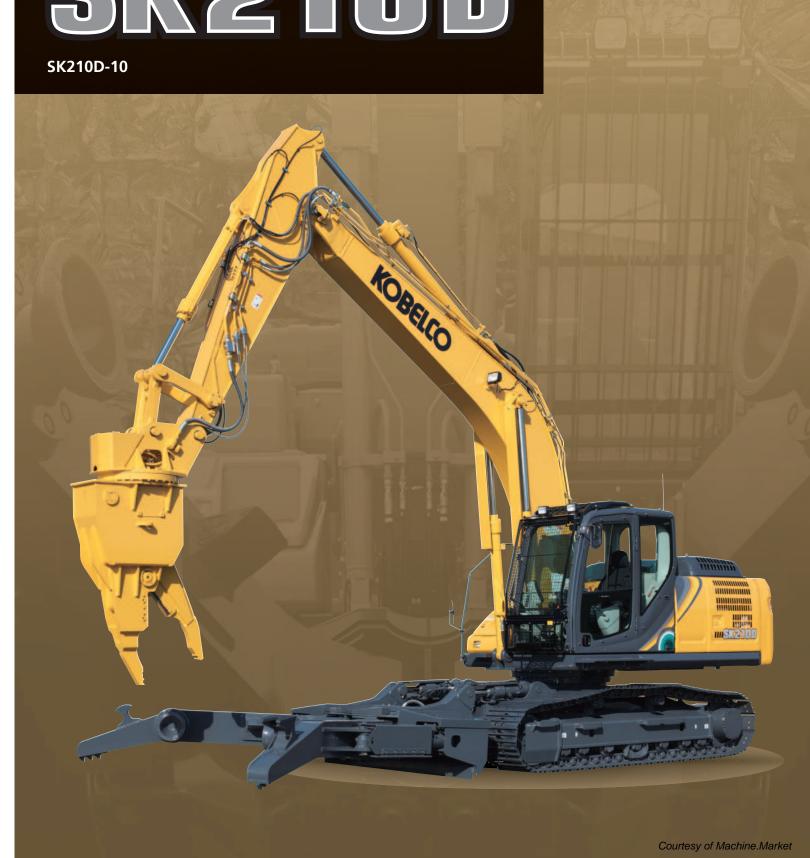
Inquiries To:

KOBELCO

Multi-Dismantling Machine

SK2100





The latest technology for automotive dismantling!

KOBELCO's multi-dismantling machines perform efficient dismantling and precise separation



The multi-dismantling machine is popular for dismantling cars and can perform a wide variety of other tasks.

Equipped with uniquely designed open/close type clamp that can grab and hold varied sized components for sorting operations. Besides dismantling end-of-life vehicles, the machine can break down and separate engines and other metal products.

O Dismantles passenger automobiles about 4 times faster than manual dismantling.



- One operator can do all.
- Protects the operator from flying debris from the dismantling
- Eliminated fire danger from cutting torches.
- Very versatile machine can easily move around job site.
- Works well on trucks, buses, motorcycles and others.
- Can dismantle engines at a processing efficiency approximately 10 times higher.
- Able to dismantle industrial products other than cars to separate raw materials.
- Recoverable raw materials: Iron, aluminum, copper, platinum, vanadium and others.

Process of car dismantling (Example: Car dismantling)

1. Incoming

Brings in an end-of-life vehicle



2. Pre-processing

Processes airbags, takes out fluorocarbon gas and drains various fluids (fuel, oil and coolant)



3. Salvaging parts Recovers tires, wheels, doors, seats, hoods and batteries.

4. Dismantling car body

Recovers engines, transmissions, differential gears, suspensions, exhaust pipes, motors, radiators and



5. Dismantling the engine

Recovers generators, starter motors, compressors, harnesses and others, and removes cylinder heads.



6. Shipping

After crushing the remaining automotive structures, the remaining metal can be recycled at steel mills.

■ Structure of the multi-dismantling machine

Piping for the rotating nibbler

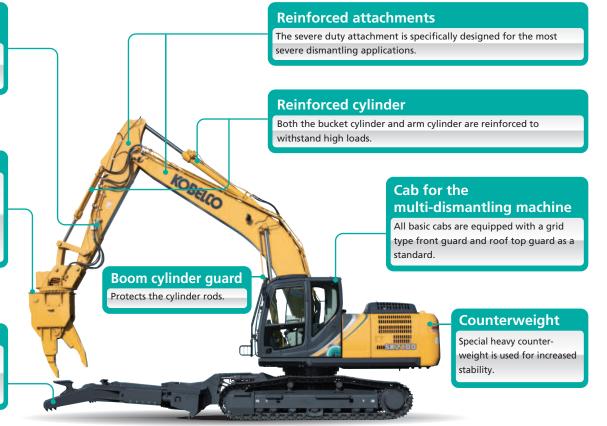
Hydraulic piping that is adapted for the auto-rotating type nulti-dismantling nibbler.

Front attachments

The SK210D comes standard with a multi-dismantling nibbler. This nibbler has an ideal design for crushing and cutting objects as well as for sorting and removing resources.

Clamp arm

The clamp arm opens and closes horizontally to hold down and pinch the object being dismantled.



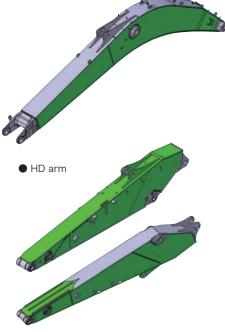
Note: Shows the numbers of processed cars a day (estimated by KOBELCO).

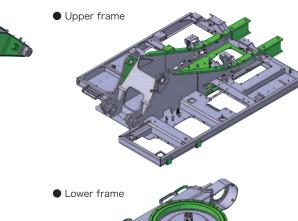
Durability, Reliability, and Maintainability

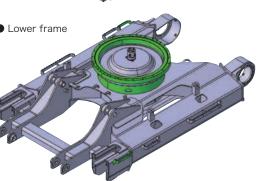
■ Structural strength

Due to the unique car dismantle demands for durability, our engineering department has given additional attention to critical related structures to insure the reliability that KOBELCO is recognized for and our customers demand.









Long life design with reinforced parts in each section



Boom cylinder guardProtects boom cylinder rods.



Dismantling arm cylinderUse of a dedicated cylinder with reinforced components.



Arm rock guardThe front of the arm end is reinforced with a plate to improve the strength



Dismantling bucket cylinderUse of a dedicated cylinder with reinforced components.



Bucket angle sensor coverThe cover protects the bucket angle sensor installed on the idler link. A cable guard also protects the electrical cables from being cut off



Upper main body undercover The 1/4" (6 mm) undercover guards protect critical hydraulic and electrical components.



Lower undercoverThe lower car body structure is fitted underneath with a 3/8" (9 mm) thick reinforced cover.



Reinforced travel motor cover A reinforced travel motor cover is used to protect critical hydraulic motor components.



Flat shoes
Flat shoes that are durable against
wear on concrete sites are selectable



Dust-proof fuel tank capThe fuel cap is lined with rubber so that dust does not easily contaminate the fuel tank.



Maintenance space
The upper space provides a
comfortable platform for maintenance inside the engine hood.

Safety

Thoroughly implements the safety functions required for multi-dismantling processes

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■ A cab interference prevention system is installed as a standard

The upgraded cab interference prevention system prevents the cab from interfering with the front attachment, ensuring operator safety. Dismantling work often involves operations near the foot of the machine. This device makes it easier to dismantle objects safely by reducing the collision warning range to the required minimum while increasing the practical work area.



System operation

An alarm sounds when a part of the front attachment moves closer to the cab than the limit. The machine stops gradually before the front attachment interferes with the cab.

System structure

The system calculates the boom angle, arm angle, idler link motion angle to come up with the position and direction of the front attachment to control its motion. (Previous system: Calculates the arm angle to locate the arm top position)



om angle senso



Arm angle s



nsor Bucket angle sense

Various accessories that embody KOBELCO's consideration for safety



Cab front guard

The windshield and the lower window are provided with a vertical grid guard of radial design so as not to block the operator's field of view. The quick open/close design makes cleaning easy.



Glazing with shatterproof film

The windshield and right window are provided with shatterproof film that prevents loose glass chips from scattering even if it is smashed.



Top guard level II (Meets ISO10262) The standard feature of the grid type cab ceiling guard protects the operator against objects falling on the cab roof.



Boom holding valveThe standard boom fall prevention valve provides protection against unexpected breaks in the boom cylinder piping.



Arm holding valve
The standard arm fall prevention valve provides protection against unexpected breaks in the arm cylinder piping.



CatwalkThe larger step makes it easy for the operator to climb into and out of the cab



Lower frame stepAn additional step is installed on the side of the crawler frame.



Loudspeaker systemThe high sensitivity microphone facilitates hearing.



Travel alarmWhen traveling onsite, the standard alarm function cautions workers in the area with an electronic sound.



Rear swing flashers and rear work lights
The swing warning lamp helps prevent
collisions and accidents where workers are
trapped while the upper body is turning.



Rear view camera

The view from behind the machine can be displayed with camera images on the multi-display.



Additional right camera + monitor
The view from the right side of the machine can be confirmed on the standalone monitor to exclude blind spots.

Optional

Specifications

Efficient dismantling achieved with KOBELCO's creativity and inspiration



Foot pedal arrangement

The nibbler and clamp arm (up/down) are operated with the feet. The operation pedals are arranged to the left and right where they can be depressed easily.



3-button grip

The clamp arm, used for holding and cutting the target, can be opened and closed horizontally with just the



Suspension seat

The comfortable suspension seat is now a standard feature to lessen operator fatigue for long hours of



Cab two lights

Provides a brighter field of view from the front during indoor and nighttime operations.



Cab guard with space for storage

The operator puts his boots in the locker in a separate space so as not to mess up the cab floor.



Heavy weight

The additional weight ensures substantial stability, making it easier to grab and raise heavy objects such as end-of-life vehicles.



Open/close type clamp arms

The clamp arms for the multi-dismantling machine not only hold down an object but also pinch-hold it.



Multi-dismantling nibbler

Light weight, easy to control fine motions, and good for various types of work. Its pointed shape is suitable for precisely separating objects.





Puller

Claw type pullers are provided to remove harnesses.



Anchor

Designed to bend long objects easily.



The grip is able to not only grab-hold dismantled objects but also swing them forwards and backwards.



Teeth

The powerful clamping action of the clamp arms can be applied to these teeth for sorting or cutting operations, such as removing aluminum cylinder heads from cast iron blocks.

■ Main specifications

Model name			SK210D
Machine type			SK210D-10
Mounting attachment			KVE720PR
Operating weight lbs{kg}		lbs{kg}	66,100{30,000}
Ground pressure psi{kPa}		psi{kPa}	9.7{67}
Swing speed rpm{min-1}		om{min-1}	12.7{12.7}
Travel speed {2nd speed/1st speed} mph{km/h}		ph{km/h}	3.7/2.2{6.0/3.6}
Gradeability deg{%}		deg{%}	11.5{20}
Engine	Model		HINO J05EUM-KSSC
	Rated output hp/rpm{	xW/min-1}	160/2,000{119/2,000}
Fuel tank gal{L}		gal{L}	84.5{320}
DEF/AdBlue tank gal{L}		gal{L}	21.9{83}
Set hydraulic pump pressure psi{Mpa}		psi{Mpa}	4,970{34.3}
Hydraulic oil tank gal{L}		gal{L}	79.3{300}
	Overall length	t-in{mm}	42'6"{12,950}
Dimensions	Overall width	t-in{mm}	9'2"{2,800}
	Overall height	t-in{mm}	12′2″{3,720}
	Tail swing radius	t-in{mm}	9′7″{2,910}

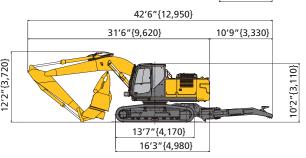
■ Working range Unit: ft-in {mm}

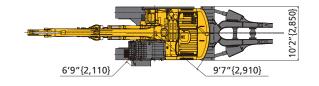
Multi-dismantling nibbler installed

36'4"{11,070} 11'7'{3,540} 17'3"{5,260} 12'3"{3,740}

■ **Dimensions** Unit: ft-in {mm}

9'2"{2,800}





■ Front attachment specifications

Multi-dismantling nibbler

Model		KVE720PR-2
Rotating mechanism		Hydraulic auto-rotation
Weight	lbs{kg}	4,080 {1,850}
Maximum opening width	ft-in{mm}	2'4" {720}
Overall length	ft-in{mm}	8'6" {2,630}
Cutting force (cutter)	lbf{kN}	121,200 {539}
Tooth clamping force	lbf{kN}	44,100 {196}
Working hydraulic pressure	psi{Mpa}	4,260 {29.4}

