

KOBELCO

Building Demolition Machine

-11 SERIES

SK350D LC

Performance  Design

■ Engine Power:

265 hp {198 kW} @ 1,900 rpm
(SAE NET)

■ Operating Weight:

94,360 lbs {42,800 kg}–96,560 lbs {43,800 kg}



Complies with the
latest exhaust
emission regulations



US EPA
Tier IV Final

Performance Design

PERFORMANCE — Improved power and speed, thru the 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 has achieved their goal of creating a unique and specialized machine for the demolition market.

A machine that can work hard every day and take on the challenges it was built for.

SK350D_{LC}

To the Next Level of Power and Functional Aesthetics

A high-output engine compliant with the newest regulations

Matched to provide maximum performance and smoother operations for lifting and pulling applications.

Model : ISUZU 6HK1

Engine output

265 hp {198 kW}/1,900 rpm
(SAE NET)

Advanced LED backlight

Switches and dials utilize LED backlighting to increase 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 or when the key is turned off.





A jog dial for simple operation

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



New tilting console for ease of entry and exit

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



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.

Specification selection

Select attachments to perform demolition from high heights to lower stories, and even basement levels with just one machine.

Ultra long attachment specification

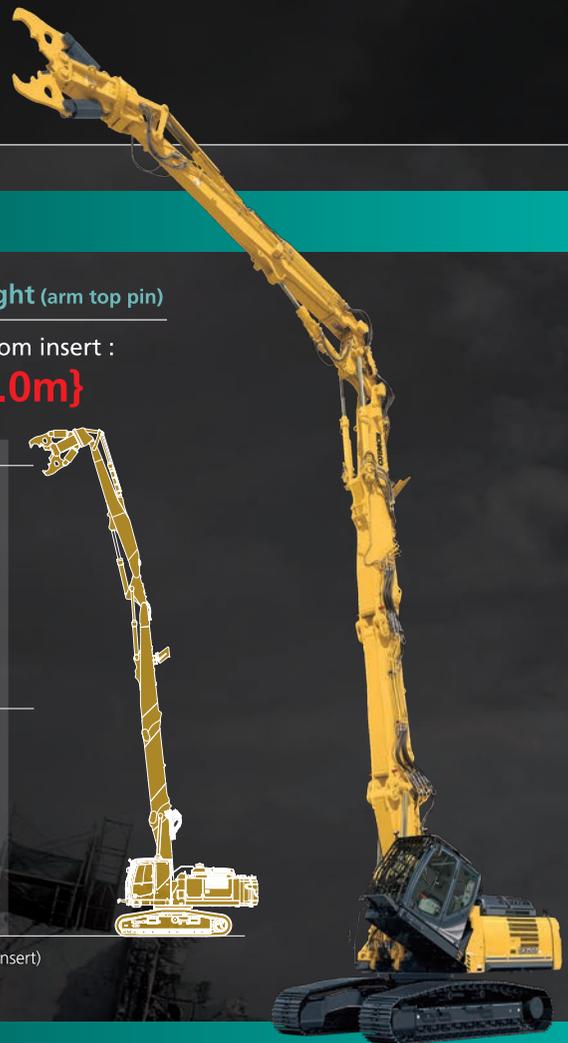
Ideal for demolishing buildings over 20m high

The ultra long attachment enables demolition work at high places to be performed from the ground. The maximum work height is at the top level for this class, and this machine can be used for the demolition of common buildings up to 5 to 8 stories high. The length can be shortened by removing the boom insert if maximum height is not required.

Maximum working height (arm top pin)

20'0" {6.1m} arm, with boom insert :

Approx. **68'11" {21.0m}**



Separate boom specification

Demolish lower stories, foundations, basements

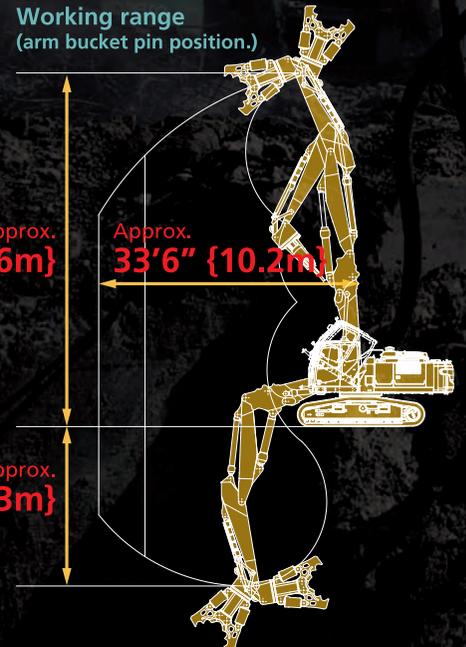
The separate boom specification has a wide working range, making work at lower elevations and below ground level easy. The impressive maximum work depth exceeds 20' , and a large diameter jib cylinder is attached to the boom bottom side to ensure substantial lifting power. This specification is suitable for demolition of the lower floors, underground floors, and foundations of buildings.

Working range (arm bucket pin position.)

Approx. **44'6" {13.6m}**

Approx. **33'6" {10.2m}**

Approx. **20'9" {6.3m}**

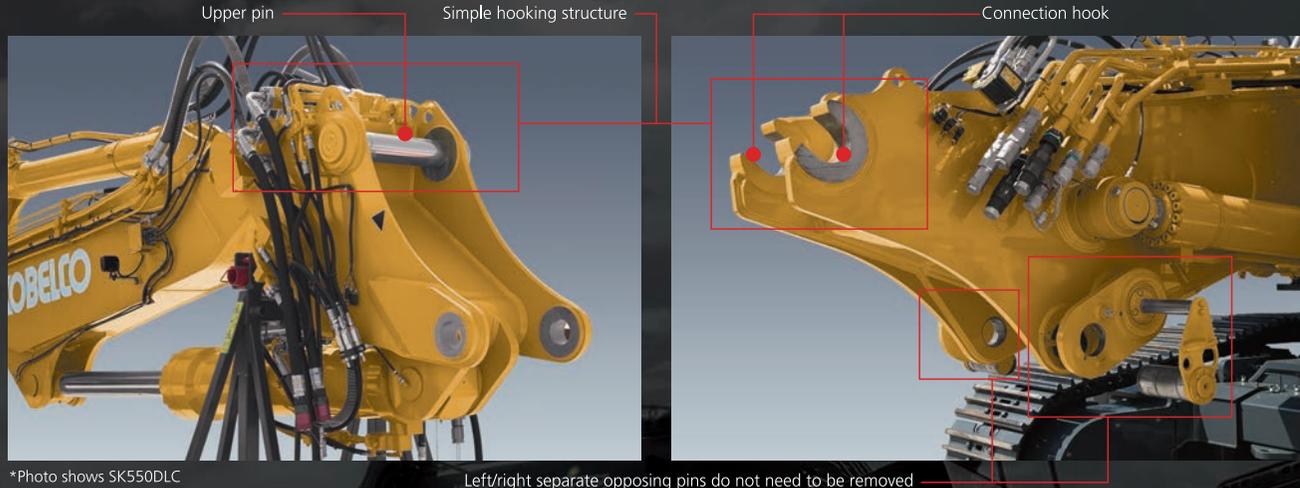


Work setups done quickly and safely!

The new-generation NEXT demolition attachment

NEXT joint system

KOBELCO's original joint system was developed by testing the assembly/disassembly process extensively. The boom attachment can be connected just by hooking the upper (backside) pin and fixing with the separate opposing pins on the lower side (bottom side).



*Photo shows SK550DLC

Left/right separate opposing pins do not need to be removed



Upper side (back side): Pins just need to be hooked. There is no need to insert/remove the pins.

Hook Upper pin



Lower side (bottom side): Guided left/right separate opposing pins make it easy to position the pins.

Left/right split pins Guide



NEXT pin removal equipment available for handy attachment disassembly.

*Photo shows SK550DLC

Piping connection also simple with multi-coupler and other implements

With the attachment joint part, connect the hydraulic piping to the boom side, and then connect/disconnect with the multi-coupler or quick coupler. Safely and conveniently connect piping from the side of the machine.



Multi-coupler Quick-coupler
*Photo shows SK550DLC



Quick-coupler

Quick hitch piping is equipped as standard

Dedicated piping is equipped as standard to attach the quick hitch for easy exchange of front attachments.

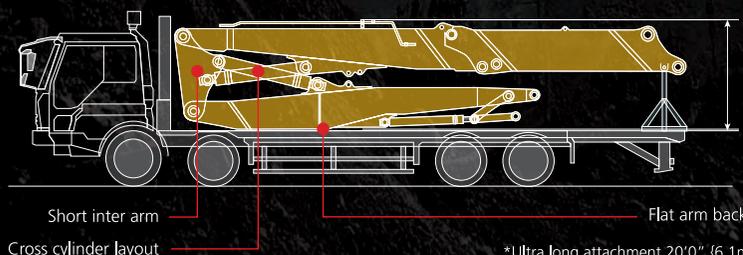


Attachment pressure drain from the display

Hydraulic oil pressure draining before exchanging the front attachment or disassembling the boom attachment can be done by selecting it on the display from the operator's seat.



Attachment height during transport [NEXT Ultra long attachment specification]



Approx.
7'3"
{2,200mm}

Cross cylinder layout

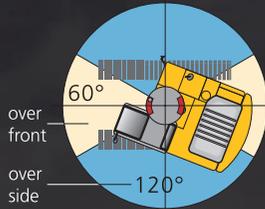
*Ultra long attachment 20'0" {6.1m} arm + 11'6" {3.5m} boom insert

Reliability and safety

Enhanced safety functions to assist the operator in production and performance

Stability warning system with longitudinal/horizontal detection

The working radius and stability are calculated from the position of the attachment, and the operator is warned with an alarm (continuous sound) where the machine's stability could be compromised. The working range is largest when working in-line with the track frame or over front of machine. For maximum stability and safety, Kobelco recommends working in-line with the track frame whenever possible.



Stability warning display

LED work light to keep visibility in low light or at night

Equipped with eight bright LED work lights. The lights keep the work area bright in low light or at night for both the operator and other workers in the area.



Upper structure (1 light)



Cab top (2 lights)



Cab bottom (1 light)



Attachment (2 lights)



2 on counterweight

Cab interference prevention system with soft-stop feature

The cab interference prevention system is standard. This feature sounds an alarm and prevents the machine from allowing the working tool to come into contact with the cab during operation. Current tool position can be detected with high accuracy so tool can be safely moved at close range without contacting the cab, resulting in safe working range. Operator is able to program multiple tools into the systems.



Cab interference warning display



Boom angle sensor



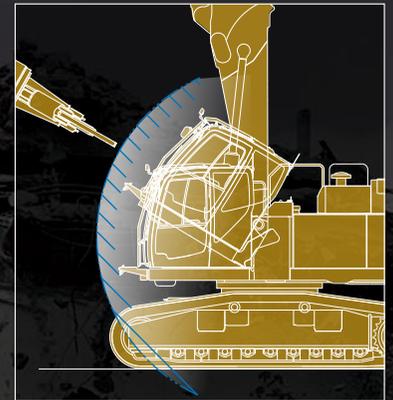
Jib angle sensor



Arm angle sensor

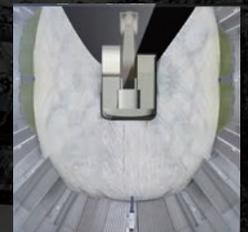


Bucket angle sensor



Rear, right, left side images / three side view

The body has cameras on the rear, right, and left sides. The large color monitor can be used to check the visibility around the machine for additional safety. Multiple viewing options allow the operator to customize what is being displayed.



Three sided view



Direct right-side view

Comfort

A unique operating environment of building demolition machine to prevent operator fatigue.

Demolition spec cab with tilting function

Cab is able to tilt up to 30 degrees. The operator can maintain a comfortable posture during high elevation demolition work, suffering less fatigue over long working periods.



Easy to clean open/close cab guard (upper front window and skylight)



Vertical open/close roller shades to block direct sunlight.



unobstructed view from ground to max height



Emergency manual valve for lowering cab



Cab tilt operation switch

Air suspension seat

GRAMMER* air suspension seat with heat is standard. It has superior shock absorption and can be used for long periods of time and reducing fatigue.



Equipment

Multiple standard features and accessories for ensuring safety.



Upper frame belly guards
The 0.24" {6mm} thick reinforced cover protects the inner devices & engine unit.



Swivel guard
The lower car body structure is fitted underneath with a 0.35" {9mm} thick reinforced cover.



Boom, arm and jib holding valves
Standard - to prevent boom or arm from falling if hose is damaged.



Bucket cylinder guard
Prevents damage to the cylinder from falling debris.



Falling object deflector (Ultra long attachment)
The guard deflects falling debris away from the machine.



Full truck guides (option)
Crawler de-tracking is prevented even on roughest ground littered with demolition rubble.



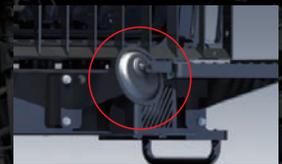
Public address system
Operator is able to alert ground workers without taking their hands off the machine controls.



Travel alarm
The alarm cautions workers in the area that the machine is traveling.



Battery shut-off device
Single switch to prevent battery discharge over long inactive periods.



Cab lower mirror
Check safety at foot areas and under the cab when tilted.



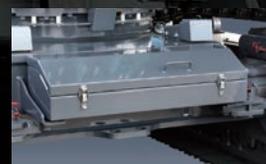
Cab entry step
Positioned for convenient access to the tilt cab.



Auto lubrication system
The upper body is automatically greased at specific times to reduce operator maintenance before starting work.



Water spray
Drain circuit is provided for rust and freezing protection.



Additional storage box (option)
Equipped with a storage box for storing tools and implements.

* The accessory settings may differ according to the specification. Refer to the list of key accessories on the back page for details.



Total Support for Machines with Network Speed and Accuracy

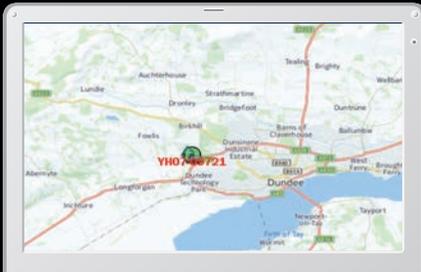
KOMEXS is a telematics system for receiving machine information. Manage your machines anywhere in the world using the Internet. Location, workload and diagnostic data aid business operations.



Direct Access to Operational Status

Location Data

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



Latest location

Fuel Consumption Data

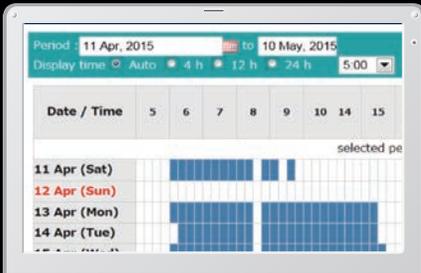
Data on fuel consumption and idling times can be used to indicate improvements in fuel consumption.

Work mode	Working Hrs	Total Fuel Consumption
H mode	2:06	24.5 L
S mode	0:00	0.0 L
E mode	169:19	1489.7 L
TOTAL	171:25	1514.2 L

Fuel consumption

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.



Daily report

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).



Work status

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.

Model	Serial No.	Hour Meter	Engine Oil	E
SK135SRLC-3/SK140SRL	YH07-09721	734 Hr	434 Hr	
SK135SRLC-3/SK140SRL	YH07-09789	73 Hr	429 Hr	
SK210LC-9	YQ13-10454	960 Hr	58 Hr	
SK210LC-9	YQ13-10481	549 Hr	498 Hr	
SK75SR-	YT08-30374			

Warning Alerts

• This system warns an alert if an anomaly is sensed, preventing damage that could result in machine downtime.

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.

Specifications

SK350D_{LC} SK350DLC-11

Engine

Model	ISUZU 6HK1
Type	Four-stroke 6 cylinder water-cooled direct injection turbo charger (with intercooler) diesel engine (Tier IV Final certified)
No. of cylinders	6
Bore and stroke	4.5" x 4.9" {115 mm} x {125 mm}
Displacement	475.4 cu.in {7,790 ml}
Rated power output	265 hp {198 kW}/1,900 rpm (SAE NET) 282 hp {210 kW}/1,900 rpm (Without fan)
Max. torque	746 lb-ft {1011 N·m}/1,500 rpm (SAE NET) 797 lb-ft {1080 N·m}/1,500 rpm (Without fan)

Hydraulic system

Pump	
Type	Two variable displacement piston pumps + extra pump + pilot pump
Max. discharge flow	2 x 77.7 gpm {294 L/min} 1 x 11.3 gpm {42.6 L/min}, 1 x 5.0 gpm {19 L/min}
Relief valve setting	
Boom, arm and bucket	4,550 psi {31.4 MPa}
Power boost	4,970 psi {34.3 MPa}
Travel circuit	4,970 psi {34.3 MPa}
Swing circuit	4,210 psi {29.0 MPa}
Control circuit	725 psi {5.0 MPa}
Nibbler (Crusher) circuit	Open & Close 3,550 psi {24.5 MPa} Rotation 2,990 psi {20.6 MPa}
Pilot control pump	Gear type
Main control valves	8-spool
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	6.0 rpm (Ultra long attachment) 10.0 rpm (Separate boom)
Swing torque	88,200 lb-ft {119.6 kN·m}
Tail swing radius	11'10" ft-in {3,600 mm}

Hydraulic P.T.O.

Specification	Output	Maximum pressure	Max. flow U.S. gpm, {lpm}
		psi {MPa}	(0 pressure) 1,900 rpm
Nibbler	4,550 {25.0}	2 x 77.7 {2 x 294}	
Rotaly	2,990 {20.6}	11.3 {42.6}	

Travel system

Travel motors	Variable displacement axial piston motor x 2
Travel brakes	Hydraulic brake
Parking brakes	Wet multiple plate
Travel shoes	48 each side
Travel speed	3.5/2.1 mph {5.6/3.3 km/h}
Drawbar pulling force	77,600 lbf {345 kN}
Gradeability	70% {35°}

Cab & control

Cab
All-weather, sound-suppressed steel cab mounted on silicon-sealed viscous mounts and equipped with a heavy, insulated floor mat Demolition spec cab with tilting function (30°)
Control
Two hand levers and two foot pedals for travel
Two hand levers and one foot pedal for excavating and swing
Electric rotary-type engine throttle

Refilling capacities & lubrications

Fuel tank	132.9 U.S.gal {503 L}
Cooling system	9.2 U.S.gal {35.0 L}
Engine oil	7.5 U.S.gal {28.5 L}
Travel reduction gear	2 x 2.1 U.S.gal {8.0 L}
Swing reduction gear	2.0 U.S.gal {7.4 L}
Hydraulic oil tank	64.7 U.S.gal {245 L} tank oil level 108.3 U.S.gal {410 L} hydraulic system
DEF/Urea tank	21.9 U.S.gal {83 L}

Operating weight & ground pressure

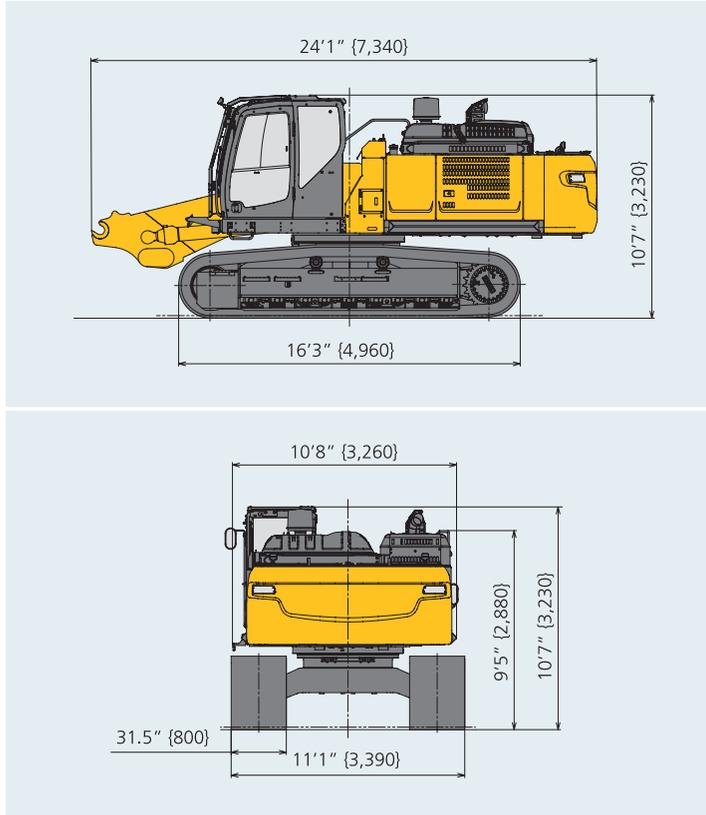
Attachment Type	NEXT Ultra long attachment/ equipment	Separate attachment
	20'0" {6.1m} arm	
Operating Weight	96,560 lbs {43,800 kg}	94,360 lbs {42,800 kg}
Ground Pressure	8.8 psi {61 kPa}	8.7 psi {60 kPa}

Specifications

SK350D_{LC} SK350DLC-11

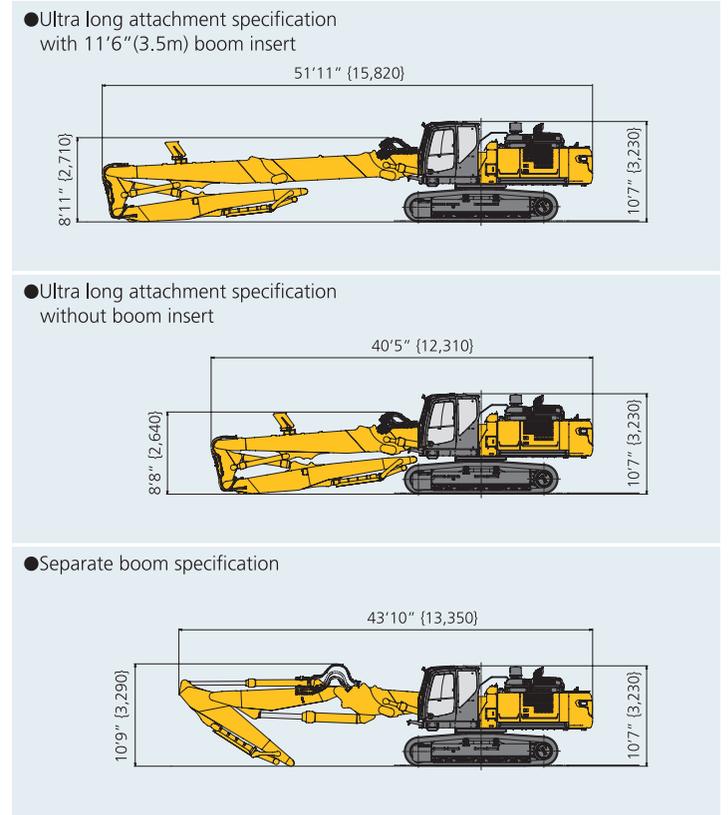
Dimensions (main body + base boom)

(Unit: ft-in (mm))



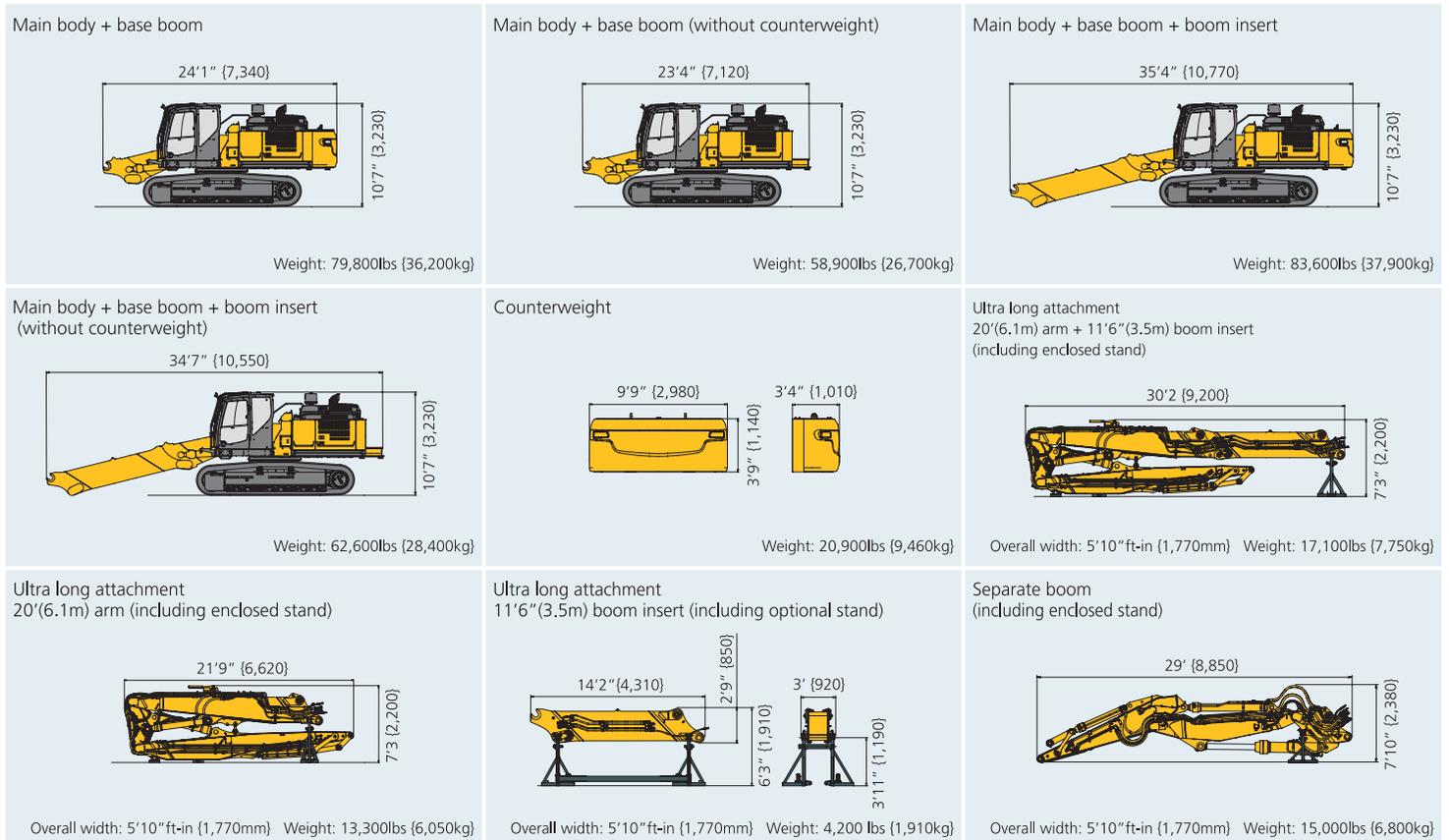
Assembled machine dimensions

(Unit: ft-in (mm))



Disassembled dimensions and weight

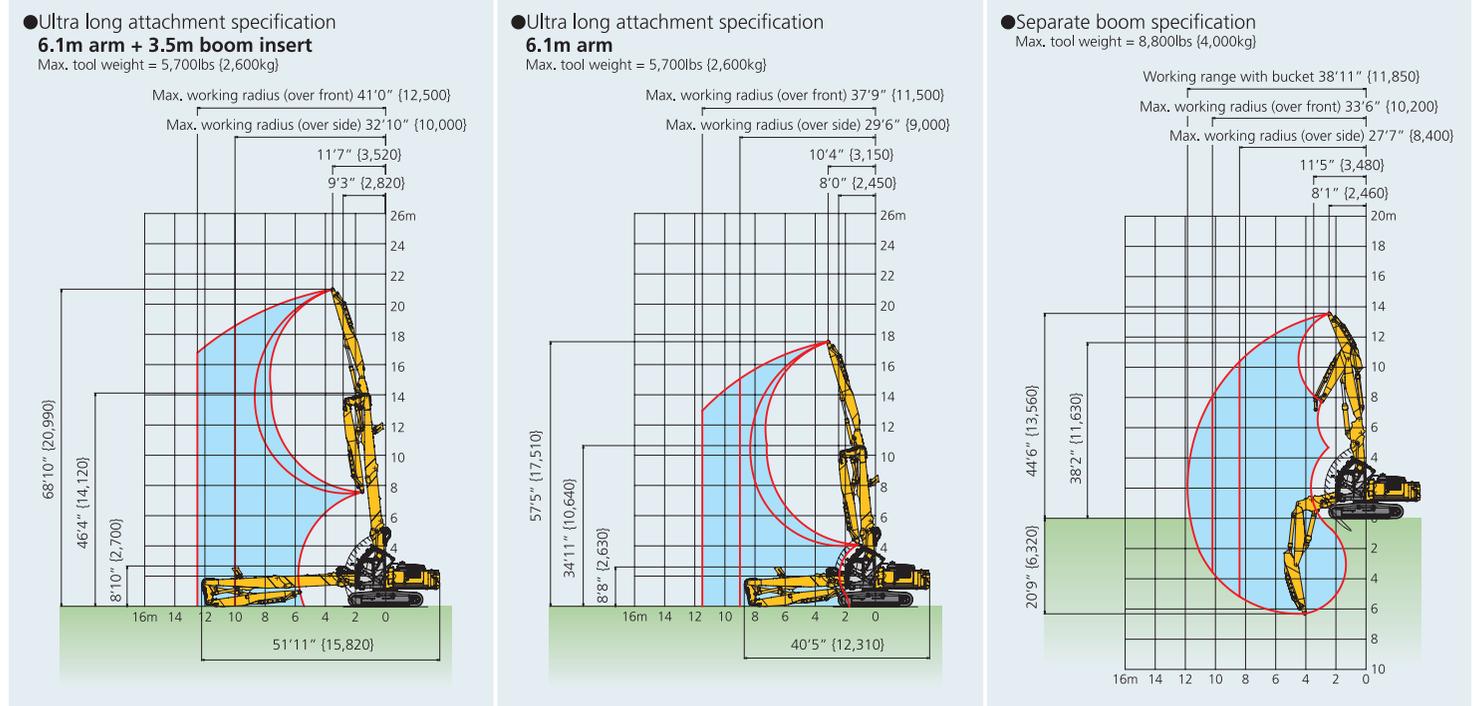
(Unit: ft-in (mm), lbs (kg))



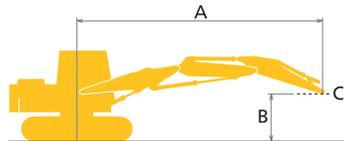
Working range

The measurements do not include crawler shoe lugs. Working ranges with max tool weight installed.

(Unit: ft-in (mm))



Lift capacities



Rating over front

Rating over side or 90 degrees

A – Reach from swing centerline to arm top
 B – Arm pin height above/below ground
 C – Lift point {kg}
 Relief valve setting: 34.3 MPa

SK350DLC		Boom: Separate		Arm: 10'8" (3.3 m)		Without bucket:		Counterweight: 20,900 lb (9,460 kg)		Shoe: 31.5" (800 mm) (Heavy Lift)				At max. reach			
A	B	5' (1.5 m)		10' (3.0 m)		15' (4.6 m)		20' (6.1 m)		25' (7.6 m)		30' (9.1 m)		35' (10.7 m)		Radius	
40'	lb					*24,580	*24,580	*17,680	*17,680					*17,420	*17,420	20'0"	
	{kg}					{11,150}	{11,150}	{8,020}	{8,020}					{7,900}	{7,900}	{9.09 m}	
35'	lb					*21,060	*21,060	*22,060	*22,060	*19,880	17,860			*13,970	*13,970	26'7"	
	{kg}					{9,550}	{9,550}	{10,010}	{10,010}	{9,020}	{8,100}			{6,340}	{6,340}	{12.11 m}	
30'	lb					*18,980	*18,980	*21,060	*21,060	*21,870	18,110	*17,950	12,660	*12,370	11,490	31'1"	
	{kg}					{8,610}	{8,610}	{9,550}	{9,550}	{9,920}	{8,210}	{8,140}	{5,740}	{5,610}	{5,210}	{14.14 m}	
25'	lb			*51,560	*51,560	*20,880	*20,880	*22,770	*22,770	*23,410	17,520	*20,030	12,630	*11,500	9,410	34'3"	
	{kg}			{23,390}	{23,390}	{9,470}	{9,470}	{10,330}	{10,330}	{10,620}	{7,950}	{9,090}	{5,730}	{5,220}	{4,270}	{15.59 m}	
20'	lb					*37,940	37,130	*29,900	23,340	*24,080	16,450	19,670	12,130	*10,920	8,180	36'5"	
	{kg}					{17,210}	{16,840}	{13,560}	{10,590}	{10,920}	{7,460}	{8,920}	{5,500}	{4,950}	{3,710}	{16.60 m}	
15'	lb			*50,790	*50,790	*38,390	33,990	*31,260	20,750	*24,660	15,150	18,920	11,440	14,760	8,790	38'0"	
	{kg}			{23,040}	{23,040}	{17,410}	{15,420}	{14,180}	{9,410}	{11,190}	{6,870}	{8,580}	{5,190}	{6,700}	{3,990}	{17.25 m}	
10'	lb					*41,300	30,670	*31,260	18,810	23,720	13,920	18,150	10,740	14,380	8,430	38'7"	
	{kg}					{18,730}	{13,910}	{14,180}	{8,530}	{10,760}	{6,310}	{8,230}	{4,870}	{6,520}	{3,820}	{17.59 m}	
5'	lb					*42,810	28,310	*30,150	17,550	22,730	13,040	17,550	10,180	14,050	8,140	38'8"	
	{kg}					{19,420}	{12,840}	{13,680}	{7,960}	{10,310}	{5,910}	{7,960}	{4,620}	{6,370}	{3,690}	{17.62 m}	
G.L.	lb			*22,010	*22,010	*38,570	27,370	*25,460	17,040	*21,930	12,590	17,190	9,850	13,890	7,980	38'2"	
	{kg}			{9,980}	{9,980}	{17,500}	{12,410}	{11,550}	{7,730}	{9,940}	{5,710}	{7,800}	{4,470}	{6,300}	{3,620}	{17.36 m}	
-5'	lb			*35,990	*35,990	*25,780	*25,780	*17,320	17,320	*18,840	12,550	*15,620	9,800	*11,840	8,050	37'0"	
	{kg}			{16,320}	{16,320}	{11,690}	{11,690}	{9,510}	{7,860}	{8,550}	{5,690}	{7,090}	{4,450}	{5,370}	{3,650}	{16.79 m}	
-10'	lb	*39,880	*39,880	*49,080	*49,080	*41,940	29,430	*31,560	19,320	*14,530	12,850	*11,850	10,050		*8,660	*8,530	34'7"
	{kg}	{18,090}	{18,090}	{22,260}	{22,260}	{19,020}	{13,350}	{14,320}	{8,760}	{6,590}	{5,830}	{5,380}	{4,560}		{3,790}	{3,870}	{15.74 m}
-15'	lb			*52,190	*52,190	*37,850	30,170	*28,680	19,750	*20,360	14,160	*10,940	10,800		*10,720	10,720	30'4"
	{kg}			{23,670}	{23,670}	{17,170}	{13,680}	{13,010}	{8,960}	{9,240}	{6,420}	{4,960}	{4,900}		{4,860}	{4,860}	{13.79 m}
-20'	lb					*28,700	*28,700	*18,540	*18,540						*16,990	*16,990	21'4"
	{kg}					{13,020}	{13,020}	{8,410}	{8,410}						{7,710}	{7,710}	{9.71 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 height. 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 SAE J1506. They do not exceed 87 % of hydraulic lift capacity or 75 % of tipping load. Lifting 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 and 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.
 - This table cannot be applied for high reach demolition machines.

Standard and optional equipment

●=Std, ○=Opt, — = not available

Category	Description	SK350DLC-11	
		Separate boom Attachment	Ultra long Attachment (21m height)
Engine	ISUZU 6HK1 (Tier IV Final certified)	●	●
	Alternator 24V / 90A	●	●
	Starter motor 24V / 5kW	●	●
	Batteries 2 x 12V (120Ah)	●	●
	Fan suction type cooling system	●	●
	Auto deceleration function	●	●
Hydraulic system	Auto idle stop	●	●
	3 work modes H, S, Eco	●	●
	Power boost (34.3MPa)	●	—
	Heavy lift mode	●	—
	Hydraulic Pressure Release	●	●
	Independent travel	●	●
	Auto warm up system	●	●
	Proportional Hand Control (for Rotation & N&B piping)	●	●
Piping	Hydraulic oil VG46	●	●
	Rotation & N&B piping	●	●
Cabin	QH piping	●	●
	Air suspension seat with heat	●	●
Cabin	10 inch colour monitor	●	●
	LED door light	●	●
	Automatic climate control	●	●
	Radio (AM/FM, AUX, USB, Bluetooth® and hands-free telephone)	●	●
	Top and front window wiper	●	●
	12V power outlet	●	●
	LED work lights ; 2 on cab top & 1 on cab front, 2 on rear counterweight, 1 on front right	●	●
Lights	LED work lights ; 2 on boom	●	—
	LED work lights ; 2 on arm	—	●
Working equipment	NEXT Separate boom attachment package	●	—
	NEXT Ultra Long attachment package for 21m pin height	—	●
	NEXT water spray flow through, non-pressurized system	●	●
C/W	Heavy C/W 20,900lbs (9,460kg) with swing flashers	●	●
Undercarriage	31.5" (800mm) triple grouser shoe	●	●
	27.6" (700mm) triple grouser shoe	○	○
	Full track guards	○	○
Safety	Engine emergency stop switch	●	●
	Emergency accel dial	●	●
	Emergency manual valve for lowering cab	●	●
	Safety holding valve for boom & arm & jib cylinder	●	●
	Demolition spec cab (P5A glass, Tilting function)	●	●
	Top cab guard (Top guard level II ISO 10262;1998)	●	●
	Bar-type front guard (Front guard level II ISO 10262;1998)	●	●
	3-side 270-degree camera system	●	●
	Cab lower mirror	●	●
	Falling object deflector	—	●
	Seatbelt indicator on display	●	●
	Travel alarm	●	●
	Cab interference prevention system	●	●
	Stability warning system	●	●
Public address system	●	●	
Others	Auto lubrication system	●	●
	Harness for engine room light	●	●
	NEXT pin removal equipment	●	●
	NEXT stand for 3.5m insert boom (for 21m Ultra Long attachment)	—	●
	Additional storage box	○	○
	Bucket cylinder guard	●	●
	KOMEXS Machine Monitoring	●	●

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

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