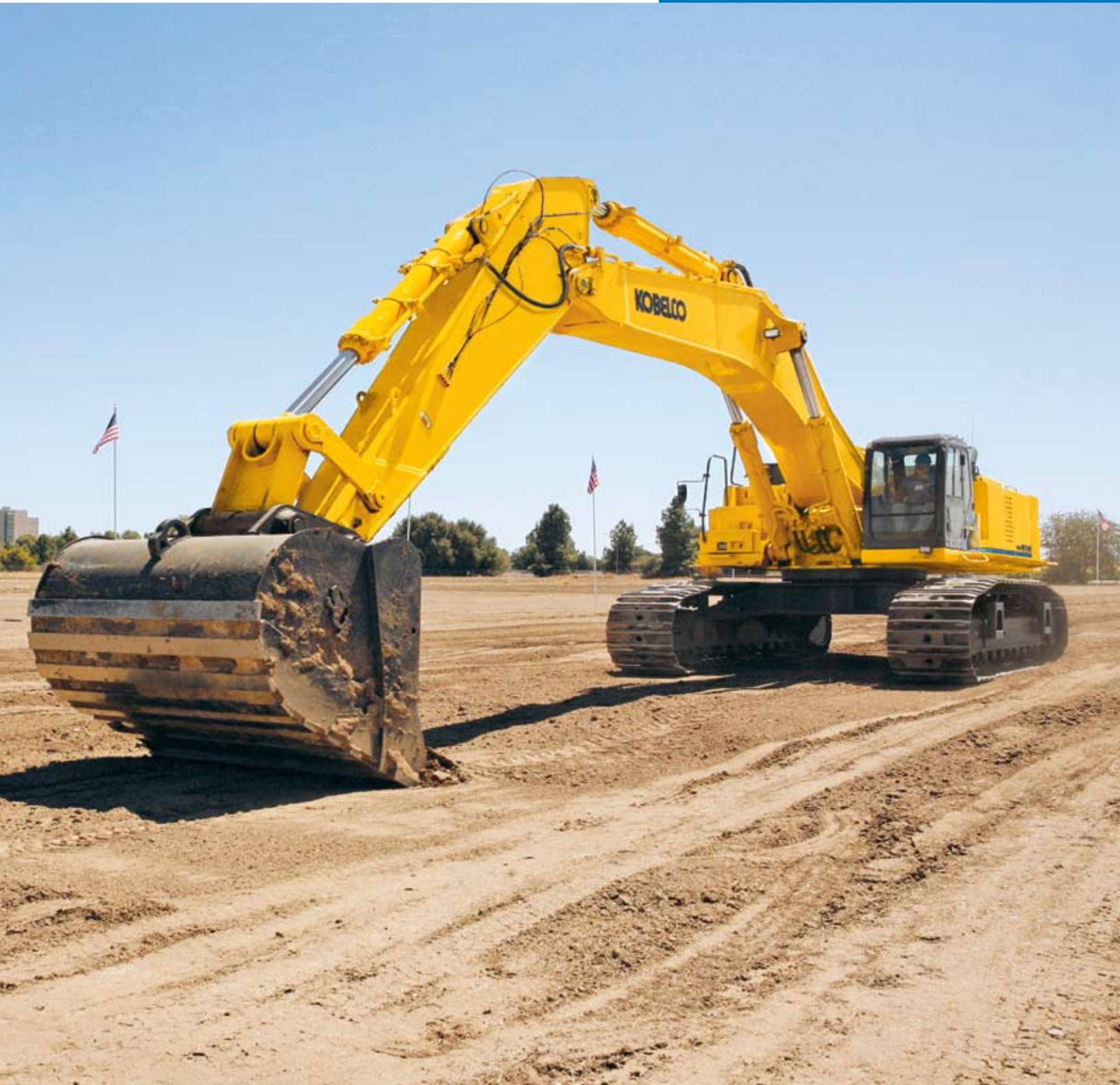


KOBELCO®

SK850LC SUPER ACERA® TIER III EXCAVATOR



Operating Weight
177,330 lbs (80,435 kg)

Net Horsepower
496 hp @ 1,800 rpm
(370 kW @ 1,800 rpm)

Max Digging Depth
31' 10" (9.7 m)

Bucket Capacity
2.5 to 7.0 cu yd
(1.9 to 5.4 m³)

Bucket Breakout Force
(SAE) 79,582 lbf (354 kN)
(ISO) 90,598 lbf (403 kN)

SK850LC SUPER ACERA *Heavy Duty*

YOU'RE BUSINESS IS GROWING, IT'S TIME TO SUPER-SIZE YOUR EXCAVATOR!

The new Kobelco SK850LC Super Acera excavator is the "Big Daddy" of our product line. We call it "Super" because the SK850LC delivers an unbeatable combination of breakout force, drawbar pull power and swing torque that's second-to-none. Take it from our customers who report greatly extended uptime and reduced fuel consumption over similar competitive models.

The Kobelco SK850LC is the Perfect Choice for:

- Large Scale Earth Moving
- Road, Bridge & Highway Construction
- Underground Utility Work
- General Construction
- Sand and Gravel Aggregates
- Demolition and Scrap Handling

Big Performance Requires Big Power

- Powerful Tier III 930 cu. In. direct-injected, water-cooled, 6-cylinder turbo-charged diesel engine with electronically controlled common rail system
- 496 hp @ 1,800 rpm (Gross)
- 1,620 lb-ft of engine torque (ISO 14396)
- 60 amp alternator

Productivity That Puts You Ahead of The Game!

- 90,598 lbf. of bucket breakout force*
- 143,203 lbs. of Drawbar pull force for climbing and pulling heavy loads
- 197,700 lb-ft. of Swing Torque
- 46' 11" max. digging reach at ground level*
- 31' 10" max. dig depth*

**With standard 14' 5" (4.4m) arm*

Mega-Duty By Design

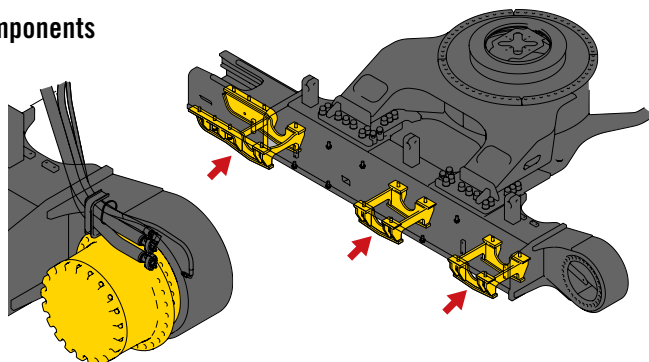
Most components are either cast or forged for maximum strength and durability. FEM (Finite Element Analysis) was used to determine the best materials and structural design for optimum strength. Features include:

- Long, heavy-duty X-frame for excellent stability and balance
- Durable Boom and Arm made of thick-plate steel
- Rollers, idlers and travel motors are sealed and lubricated for long life
- Robust lift cylinders ensure maximum rated capacity
- Dual swing motors provide consistent, reliable power
- Pumps, valves and piping are optimized for maximum efficiency
- Flanged Steel bucket bushings deliver long life

Large Crawler Frame Components

Reinforced Travel Reduction Gear Cover

A high-strength protective cover enhances the durability of the travel reduction gear.



Track Guides Installed

Track guides installed in three different places improve travel stability and help prevent the crawlers from coming off the rollers. More track guides can be installed as an option.

Extra heavy-duty X-Frame and slewing ring provide reliable performance and long component life.



Rock guard and massive bucket linkage ensure performance and protection for trenching or handling heavy materials.





Orange backlit monitor provides daytime visibility and system diagnostics to monitor critical functions and work modes.

The operator seat adjusts seven ways to maximize operator comfort.



SK850LC SUPER ACERA *Personalized Comfort*

COMFORT, VISIBILITY & CONTROL

At Kobelco, we put you, the operator – first, so you can perform at your best. The SK850LC takes Comfort to the maximum level with an ergonomically designed cab, easy to operate controls, progressive hydraulic acceleration and a clear view of the job site.

A Cab Designed Around You, the Operator

- Oversized cab provides ample room and numerous comfort features
- Super-wide entry/exit area provides easy access to the roomy cab
- 7-way adjustable seat lets you establish the level of comfort
- Right-side located controls provide easy access to critical functions
- Climate-controlled A/C & heating system for extreme environments
- AM/FM stereo with dual speakers is standard
- 24 volt and 12 volt converter for charging cell phones and other accessories
- Large storage area behind operator's seat

Clear Job-Site Visibility

- Our cab provides clear visibility with minimal obstructions
- Large glass panels provide an excellent view of the work station
- Operator is positioned for maximum visibility of all functions and operations
- Moveable front, top and door glass panels provide excellent ventilation

Easy-to-Read Instruments

- New Monitor includes work mode selector switch, fuel and temperature gauges, and an Orange backlit multi-display with large sun shade
- Self-diagnostics with fault code memory makes it easy to monitor and adjust system pressures, engine speed, travel speed and other operating functions
- Warning screens and audible alarms alert you to temperature and pressure status
- Establish and review service interval reminders for engine oil, hydraulic oil, fuel and filters

Personal Climate Control

- High efficiency/high output air conditioning & heating system
- Program a temperature between 64 and 90 degrees F (18 to 32 C) for optimum and consistent comfort
- Four fan speeds and LCD display let you monitor your environment
- Redesigned vents efficiently circulate air around the operator's compartment for exceptional air flow





Operators work with confidence, ease and with a clear view of the job site.

A personal climate control console includes an LCD display and controls for the high-output air conditioning and heating system and the four-speed fan. Just program a temperature between 64 and 90 degrees F (18 to 32 C) for optimum comfort any time of year.



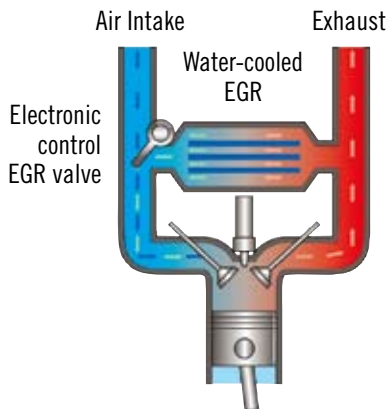
Spacious dimensions and an unrivaled view make the Kobelco cab the most comfortable and productive place to work.

SK850LC SUPER ACERA

Ultimate Performance

ELECTRONIC ENGINE CONTROL

The SK850LC offers a high-pressure, common-rail fuel-injected engine that features an EGR (Exhaust Gas Recirculation) system that lowers the air intake temperature to keep the oxygen concentration down. The multiple injection system features adjustable control to maximize fuel efficiency and provide powerful low-end torque. The result is a highly fuel-efficient engine that greatly reduces emissions of particulate matter (PM) and Nitrous-oxide (NOx) into the atmosphere.



Power Mode Selection

The SK850LC provides four work modes:

- H Mode Heavy-duty excavation work, gives priority to the workload at high speed (default mode)
- S Mode Standard digging and loading work, provides fuel savings
- B Mode Breaker work (1-way hydraulic flow)
- A Mode Demolition work with crusher/nibbler-breaker (2-way/2 pump flow)

Changing modes is fast and easily viewable on the Orange, back-lit readout display



The Power mode system provides four power modes to match your work operations. The monitor features a large sunshade and orange back-lit screen for easy daytime viewing.

Powerful 930 cu in (15.24 l) turbocharged engine puts out 496 hp (370 kW) and 1,620 lbf-ft (2,197 Nm) of torque.



SK850LC SUPER ACERA



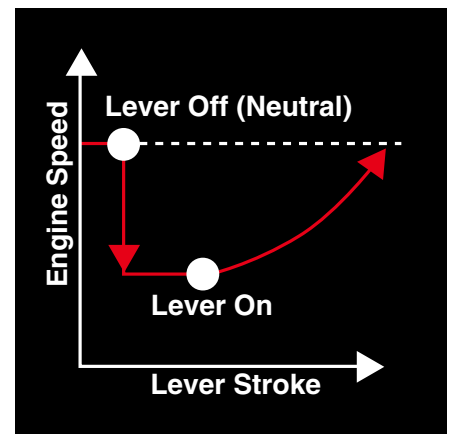
DEPENDABLE POWER & CONTROL

The SK850LC Super Acera offers Enhanced Operator Control with a new generation of control technology. **ITCS™ (Intelligent Total Control System)** efficiently maximizes both engine and hydraulic performance to give you ground breaking power and smooth, progressive operational control.

- **ITCS™ (Intelligent Total Control System)** recognizes your moves and assists by providing progressive power, where and when it's needed, so you stay in control.
- ITCS also provides the smooth, even movement required for fine grading and leveling
- Auto-Accel smoothly increases engine rpms and hydraulic flow in direct proportion to the operator's movement of the control levers. This results in even, deliberate acceleration for precise applications
- Auto-Decel reduces engine rpms after 4 seconds of operator inactivity, extending engine life and reducing fuel cost (time delay is adjustable)

Auto Acceleration/ Deceleration Function

Engine speed is automatically reduced when the control lever is placed in neutral, effectively saving fuel and reducing noise and exhaust emissions. The engine quickly returns to full speed when the lever is moved out of neutral.



Auto Warm-up System

Kobelco's SK850LC Super ACERA features an automatic engine and hydraulic warm-up system. That means it starts automatically and works on its own without requiring any action on the part of the operator. This system warms-up the hydraulic circuit to an optimum 126 degree (F) and kicks-in whenever ambient temperatures drop below 50 degrees (F). This feature improves system efficiency to make you more productive.

Smooth, Powerful Hydraulics

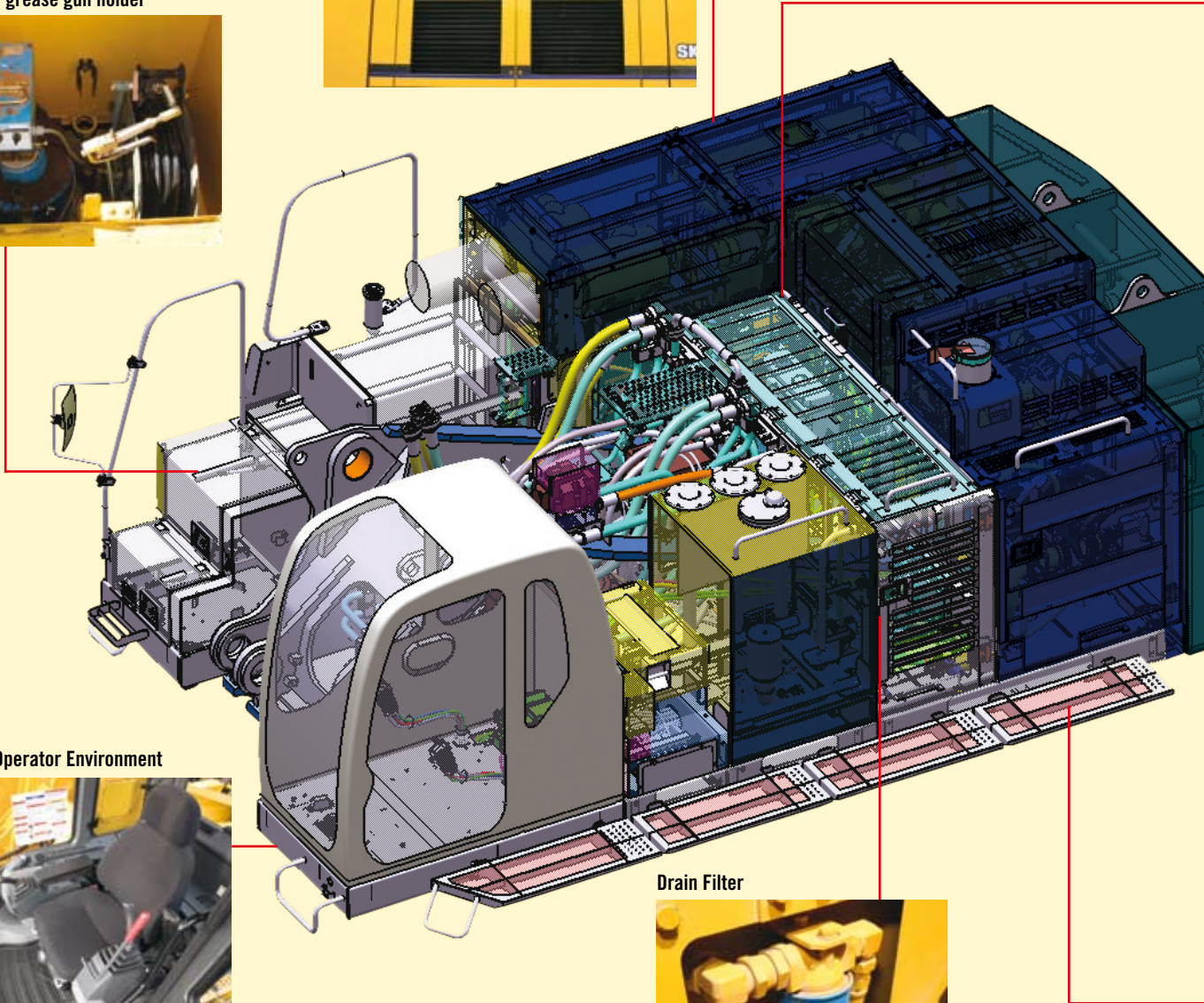
Kobelco performance features are unmatched by the competition.

- Dual, high-performance hydraulic pumps deliver earth busting power
- Variable swing system priority dedicates power for trenching operations
- Standard high-flow valve can be switched between one-pump flow to two-pump flow from inside the cab
- Swing rebound prevention system keeps boom/arm in place after the swing

Bolted double service doors



Auto-coil grease gun holder



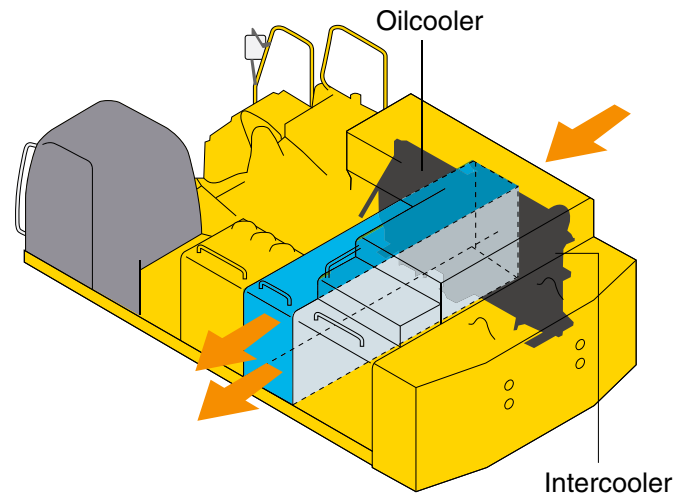
Comfortable Operator Environment



Drain Filter



Maintenance walk serves as an air duct during operation. Kobelco's unique platform design uses the maintenance walk as an air duct to increase air flow to the oil cooler.



SK850LC SUPER ACERA

Pre-fuel filter

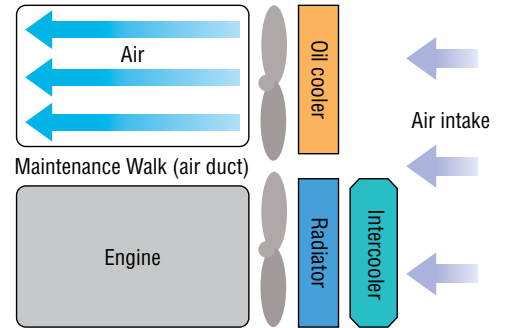


Access Takes the “Pain” Out of Maintenance

The SK850LC was designed with a central Maintenance Walk that allows access to the engine, hydraulics and filters. Centralizing these critical points saves time and encourages good maintenance practices. By design, it also creates a tunnel-effect for exiting exhaust air that cools the radiator systems.

New Cooling System

The cooling fan changes speed automatically according to the temperature of the cooling water in the radiator. This prevents overheating when the water temperature rises, allowing continuous, high-load operation. When the water temperature falls, the cooling system operates very quietly, contributing to both low noise and low fuel consumption.



The patented Maintenance Walk air duct is another KOBELCO innovation that further enhances the cooling system's effectiveness.

ISO compliant cat walk



Kobelco technology gives you the confidence to operate in remote locations knowing you have a cooling system designed for all environments and seasons.

The SK850LC Super Acera delivers leading overall performance, swing torque, drawbar pull force and bucket breakout force - regardless of which boom and arm combination you choose.



SK850LC SUPER ACERA

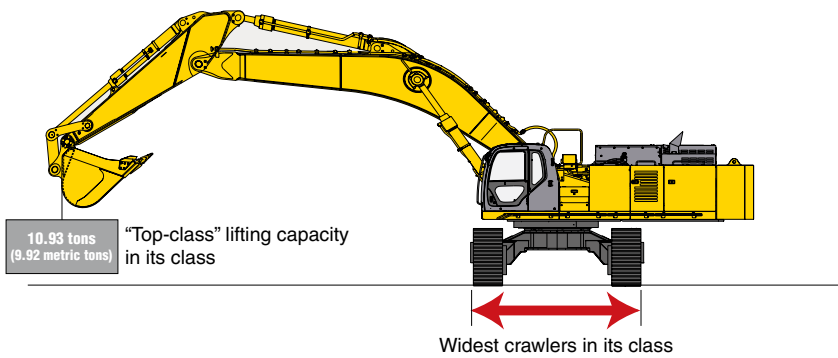
Simplified Assembly/Teardown

Kobelco engineers took into account the needs of the North American market with the design of the SK850LC. The overall assembly process has been simplified to 12 basic assembly steps. An experienced crew with the proper equipment should be able to assemble the SK850LC in a long day.

Variable Gauge Track System

Expandable tracks make the SK850LC platform flexible for both transportation and in-field operation. The 900mm tracks can be retracted to a minimum of 12' 6" (3,800 mm) for flatbed loading and transport and, expanded to a maximum of 14' 7" (4,450 mm) for on-site operation.

Excellent Lateral Stability



The SK850LC has the widest track width in its class for outstanding lateral stability. With a 7.0 cu. yd. (5.4 m³) bucket and 900mm shoes, the SK850LC can safely lift a maximum of 10.93 U.S. tons (9.92 metric tons) over the side – the most in its class.

The SK850LC also costs less to transport than other models of similar size. From port-to-location, the SK850LC can be disassembled to fit on 3 flatbed trucks. Some competitive units require up to four trucks for the same transport process. (The number of trucks required depends on multiple variables, including truck size and individual state bridge and highway laws). This saves time and valuable fuel and transportation costs.

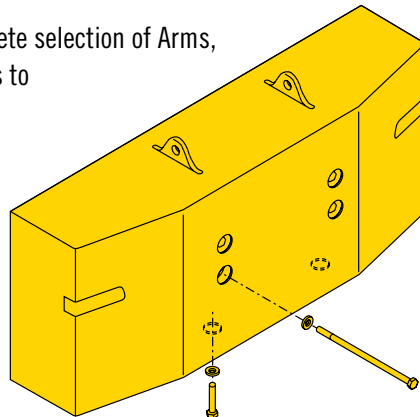
Removeable Counterweight

Kobelco North America offers 3 counter weight systems for your SK850LC.

- Standard 29,322 lb. (13,300 kg) fixed counter weight
- Optional extra-heavy 35,936 lb. (16,300 kg) ton fixed counterweight
- Optional removable counterweight for units that must be disassembled and moved between working locations.

In addition Kobelco offers a complete selection of Arms, Buckets and Hydraulic accessories to fit your application.

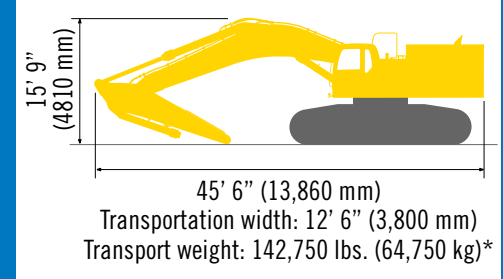
Standard counterweight shown



Modes of Transport

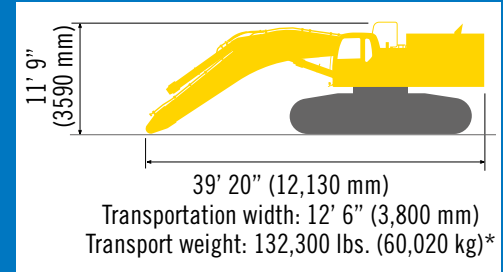
The 4 Modes of transport shown below demonstrate the architectural efficiency of the SK850LC product platform.

Plan 1



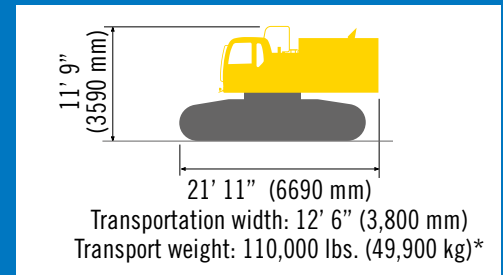
Base machine without counterweight and 3.6 cu. yd. (2.8 m³) bucket, with lower structure, 8.25 m standard boom and 4.4 m standard arm.

Plan 2



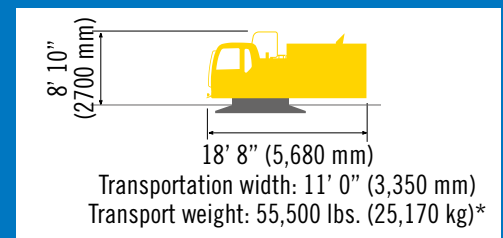
Base machine without counterweight bucket and arm with lower structure and 8.25 m standard boom.

Plan 3



Base machine with lower structure, without counterweight, bucket, arm and boom.

Plan 4



Base machine with carbody, without counterweight, bucket, arm, boom and lower structure.

*All weights are approximate and will vary based on factors, including but not limited to, accepted production tolerances, actual fluid levels, etc.

SK850LC 12-Step Product Assembly



Base Machine



Mount Counterweight



Boom Lift Cylinders



Securing Cylinders



Mount Hydraulic Fittings



Attach/Secure Boom



Attach/Secure Boom



Attach Arm



Secure Arm Cylinder



Complete Hydraulic Lines



Fill and Check Hydraulics



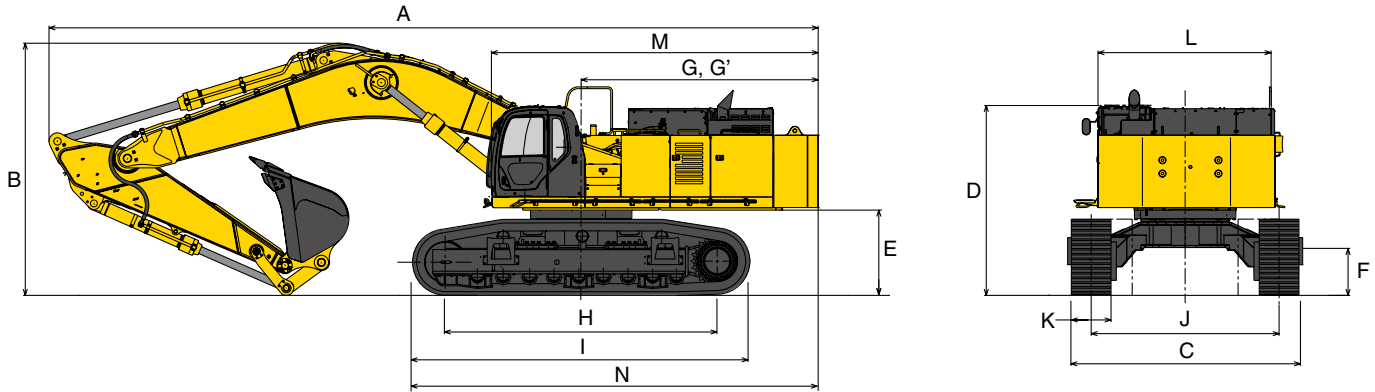
Select/Attach Bucket



SK850LC – Loaded for Transport!

Always consult the appropriate SK850LC Shop Manuals for correct assembly procedures and precautions

SK850LC DIMENSIONS, WEIGHTS & BUCKET SELECTION CHART



DIMENSIONS

	Standard Arm	
ARM LENGTH ft (m)	14' 5"	(4.4m)
BOOM LENGTH	27' 1"	(8.25 m)
A Overall length	47' 6"	(14.48)
B Overall height (to top of boom)	16' 11"	(5.16)
C Overall width (900 mm shoe-Extended)	14' 7"	(4.45)
Overall width (900 mm shoe-Retracted)	12' 6"	(3.80)
D Overall height (to top of cab)*	11' 9"	(3.59)
E Ground clearance at rear end*	5' 1"	(1.56)
F Ground clearance of undercarriage*	2' 9"	(0.85)
G Tail swing radius	15' 1"	(4.60)
G' Distance - center of swing to rear end	14' 8"	(4.8)
H Center distance of tumblers	16' 10"	(5.14)
I Overall length of crawler	20' 11"	(6.37)
J Track gauge (Extended)	11' 8"	(3.55)
Track gauge (Retracted)	9' 6"	(2.90)
K Width of crawler shoe	35.4	(0.90)
L Overall width of upper structure	11' 0"	(3.35)
M Overall length of upper structure	20' 3"	(6.17)
N Basic machine length	25' 1"	(7.66)

* Excludes height of grouser bar

HYDRAULIC SYSTEM

Hydraulic pump type	Two variable displacement pumps and one gear pump		
Pump	2 VP + 1 FG		
Max. discharge flow	US gal/min (l/min)	2 x 133	(2 x 504)
Auxiliary pump output	US gal/min (l/min)	1 x 7.93	(1 x 30)
Operating pressure:			
Implement	psi (MPa)	4,786	(33.0)
Travel	psi (MPa)	4,786	(33.0)
Swing	psi (MPa)	4,351	(30.0)
Pilot control circuit	psi (MPa)	725	(5.0)
Main control valves	valves	6-spool	

UNDERCARRIAGE

Track overall length	ft-in (m)	20' 11"	(6.37)
Track overall width extended (900mm)	ft-in (m)	14' 7"	(4.45)
Track overall width contracted (900mm)	ft-in (m)	12' 6"	(3.80)
Standard crawler track shoe width	in (mm)	35.4	(900)
Ground clearance	in (mm)	2' 9"	(850)

To determine maximum lift capacities for each available boom/arm combination, see lift charts shown on pages 14 and 15.

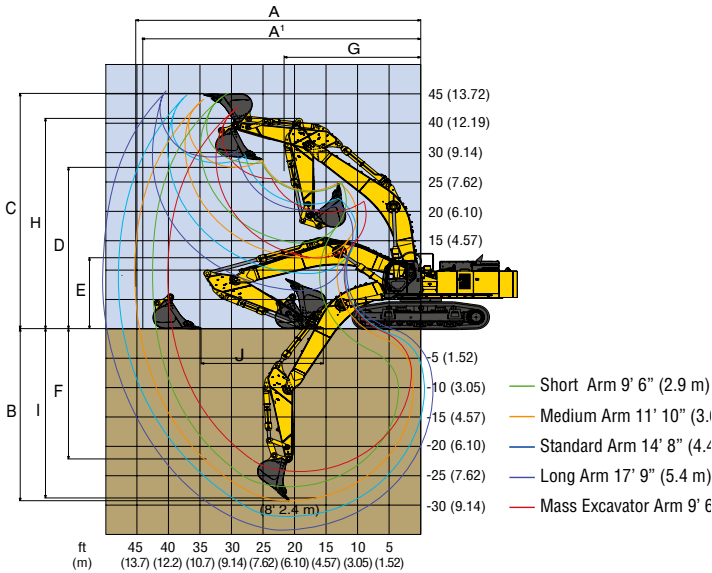
BUCKET SELECTION CHART

Bucket Duty	Capacity (SAE)		Width		Bucket		Arm ft-in (m)	Arm ft-in (m)	Arm ft-in (m)	Arm ft-in (m)	Arm ft-in (m)
	Cubic Yard (m ³)		Inches (m)		Weight lb (kg)		9' 6" (2.9)	11' 10" (3.6)	14' 5" (4.4)	17' 9" (5.4)	9' 6" (2.9)
							Short Arm	Medium Arm	Standard Arm	Long Arm	Mass Arm
Heavy Duty	2.53	(1.93)	42	(1.07)	6,403	(2904)	H	H	H	H	H
	3.00	(2.29)	48	(1.22)	6,803	(3,086)	H	H	H	H	H
	3.48	(2.66)	54	(1.37)	7,203	(3,267)	M	M	M	M	M
	3.96	(3.03)	60	(1.52)	7,780	(3,529)	M	M	M	L	M
	4.45	(3.40)	66	(1.68)	8,180	(3,710)	M	M	M	L	M
	4.94	(3.78)	72	(1.68)	8,580	(3,892)	M	M	L	X	M
	5.91	(4.52)	84	(2.13)	9,557	(4,335)	X	X	X	X	L
Extra Heavy Duty	1.78	(1.36)	35	(0.89)	5,619	(2,549)	H	H	H	H	H
	2.47	(1.89)	45	(1.14)	6,470	(2,935)	H	H	H	H	H
	3.26	(2.50)	56	(1.42)	7,211	(3,271)	M	M	M	M	M
	3.99	(3.05)	66	(1.68)	8,061	(3,656)	M	M	M	L	M
	4.43	(3.39)	72	(1.83)	8,466	(3,840)	M	M	L	L	M
	5.30	(4.05)	84	(2.13)	9,557	(4,335)	X	X	X	X	L

H - Used with material weight up to 3,000 lbs/cu yd (1,780 kg/m³)
M - Used with material weight up to 2,500 lbs/cu yd (1,483 kg/m³)

L - Used with material weight up to 2,000 lbs/cu yd (1,186 kg/m³)
X - Not recommended

SK850LC SPECIFICATIONS



PERFORMANCE SUMMARY

Travel speed (turtle)	mph (km/h)	1.7	(2.7)
Travel speed (rabbit)	mph (km/h)	2.6	(4.2)
Swing speed	rpm	8.4	
Gradeability	degrees (%)	35	(70)
Drawbar pulling force	lbs (kN)	143,203	(637)

ENGINE

Make and Model	KDI	SAA6D140E-5	
Type	Water-cooled, 4 CYCLE, 6-cylinder electronically controlled, direct injection diesel engine with intercooler turbo-charger.		
Displacement	cu in (l)	930	(15.24)
Bore	in (mm)	5.51	(140)
Stroke	in (mm)	6.5	(165)
Fuel tank capacity	gal (l)	254	(960)
Electrical system	volts DC	24	
Alternator	amps	60	
Horsepower - Gross	hp (kW) @ rpm	496 @ 1,800	(370 @ 1,800)
Max. torque	lbf-ft (kN•m) @ rpm	1,620 @ 1,350	(2,197 @ 1,350)
Batteries (2 x 12v)	AmpHr	160	

WORKING RANGES

APPLICATION	ARM LENGTH	Short Arm		Medium Arm		Standard Arm		Long Arm		Mass Ex. Arm	
	ft-in (m)	9' 6" (2.9)		11' 10" (3.6)		14' 5" (4.4)		17' 9" (5.4)		9' 6" (2.9)	
Boom length		27' 1" (8.25) Standard Boom									
A Max digging reach		44' 3" (13.48)		45' 4" (13.83)		47' 10" (14.56)		50' 10" (15.48)		40' 10" (12.45)	
A ¹ Max digging reach at ground level		43' 3" (13.19)		44' 6" (13.55)		46' 11" (14.29)		50' 0" (15.23)		39' 10" (12.13)	
B Max digging depth		27' 3" (8.30)		29' 2" (8.9)		31' 10" (9.7)		35' 1" (10.70)		24' 3" (7.38)	
C Max digging height		40' 6" (12.34)		39' 9" (12.11)		40' 6" (12.35)		41' 6" (12.64)		38' 4" (11.69)	
D Max dumping clearance		27' 7" (8.41)		27' 4" (8.34)		28' 1" (8.57)		29' 1" (8.87)		25' 6" (7.77)	
E Min dumping clearance		14' 2" (4.31)		12' 0" (3.67)		9' 5" (2.86)		6' 1" (1.86)		12' 0" (3.66)	
F Max vertical wall digging depth		16' 11" (5.16)		22' 1" (6.74)		24' 6" (7.48)		27' 7" (8.41)		14' 6" (4.42)	
G Min front swing radius		18' 10" (5.74)		20' 10" (6.34)		20' 10" (6.34)		21' 0" (6.39)		17' 11" (5.47)	
H Height at min front swing radius		35' 9" (10.89)		35' 8" (10.87)		35' 8" (10.87)		35' 8" (10.87)		33' 7" (10.24)	
I Digging depth at 8' (2.4 m) level bottom		26' 9" (8.15)		28' 9" (8.75)		31' 5" (9.58)		34' 9" (10.60)		23' 9" (7.23)	
J Horizontal digging stroke at ground level		14' 7" (4.36)		18' 7" (5.67)		22' 4" (6.80)		26' 6" (8.08)		14' 5" (4.39)	
Bucket capacity SAE heaped	cu yd (m ³)	6.0 (4.6)		4.58 (3.5)		3.66 (2.8)		3.0 (2.3)		6.0 (4.6)	

BREAKOUT FORCES

APPLICATION	ARM LENGTH	Short Arm		Medium Arm		Standard Arm		Long Arm		Mass Ex. Arm	
	ft-in (m)	9' 6" (2.9)		11' 10" (3.6)		14' 5" (4.4)		17' 9" (5.4)		9' 6" (2.9)	
Boom length		27' 1" (8.25) Standard Boom									
Bucket digging force (SAE)		86,551 (385)		79,582 (354)		79,582 (354)		79,582 (354)		86,551 (385)	
Bucket digging force (ISO)	lbf (kN)	97,117 (432)		90,598 (403)		90,598 (403)		90,598 (403)		97,117 (432)	
Arm crowding force (SAE)		75,985 (338)		67,443 (300)		59,120 (263)		51,260 (228)		75,985 (338)	
Arm crowding force (ISO)	lbf (kN)	79,908 (351)		69,916 (311)		61,148 (272)		52,605 (234)		79,908 (351)	

SHIPPING DIMENSIONS

APPLICATION	ARM LENGTH	Short Arm		Medium Arm		Standard Arm		Long Arm		Mass Ex. Arm	
	ft-in (m)	9' 6" (2.9)		11' 10" (3.6)		14' 5" (4.4)		17' 9" (5.4)		9' 6" (2.9)	
Boom length		27' 1" (8.25) Standard Boom									
Overall length		47' 11" (14.6)		47' 8" (14.53)		47' 6" (14.48)		46' 8" (14.22)		44' 7" (13.59)	
Overall height (top of boom)		15' 10" (4.83)		15' 7" (4.76)		16' 11" (5.16)		18' 10" (5.75)		16' 1" (4.83)	

SPECIFICATION SUMMARY

WEIGHTS & PRESSURES

Operating weight	lb (kg)	177,330	(80,435)
Counter weight	lb (kg)	29,321	(13,300)
Bucket weight	lb (kg)	5,247	(2,380)
Ground pressure	psi (kPa)	11.37	(78.4)

GENERAL

Track shoe width (standard)	in (mm)	35.4	(900)
Bucket capacity range (SAE heaped)	cu yd (m ³)	2.5 - 6.0	(1.9 - 4.6)

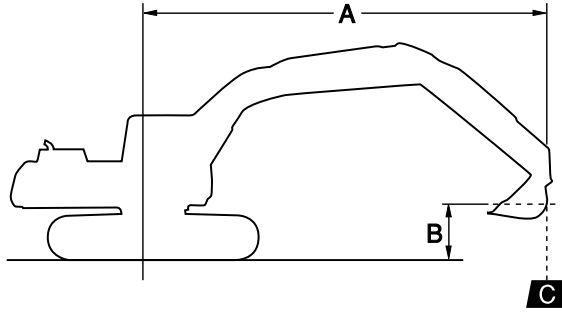
SWING SYSTEM – 14' 5" (4.4 m) arm

Max Swing Speed	rpm	8.4	
Swing Torque	lbf-ft (kN • n)	197,700	(268)
Tail swing radius	ft-in (m)	15' 1"	(4.60)
Min front swing radius	ft-in (m)	20' 10"	(6.39)

CAPACITIES

Fuel tank capacity	gal (l)	254	(960)
Hydraulic oil reservoir	gal (l)	125	(473)
Hydraulic system including oil reservoir	gal (l)	226	(856)
Cooling system	gal (l)	20	(76)
Lubrication: engine oil	gal (l)	15.3	(58)

SK850LC LIFT CAPACITIES — 14' 5" Standard Arm



- A** Reach of swing centerline to bucket hook
- B** Bucket hook height above/below ground
- C** Lifting capacities in pounds and kilograms

- Max discharge pressure: 4,786 psi (33.0 MPa)
- Track shoe (standard): 35.4" (900 mm)
- Boom: 27' 1" (8.25 m)
- Bucket weight: 5,247 lbs. (2,380 kg)
- Bucket size: 3.66 cu. yd. (2.8m³)
- Arm length: 14' 6" (4.4 m)

SHORT ARM

LIFTING CAPACITY – Boom: 27' 1" (8.25 m) Arm: 9' 6" (2.9 m) Bucket: 6.0 cu. yd. (4.6 m³) SAE Heaped Shoe: 34.5" (900 mm)

B	A	LIFT POINT RADIUS												AT MAX. REACH						
		10' (3.0 m)		15' (4.6 m)		20' (6.1 m)		25' (7.6 m)		30' (9.1 m)		35' (10.7 m)		40' (12.2 m)		RADIUS				
		Icon	Icon	Icon	Icon	Icon	Icon	Icon	Icon	Icon	Icon	Icon	Icon	Icon	Icon	Icon	Icon			
35' (10.6 m)	lb																	*25,463	*25,463	29' 9"
	kg																	*11,550	*11,550	(9.07 m)
30' (9.1 m)	lb																	*24,802	*24,802	33' 5"
	kg																	*11,250	*11,250	(10.19 m)
25' (7.6 m)	lb									*26,125	*26,125	*24,692	*24,692					*24,692	*23,920	36' 0"
	kg									*11,850	*11,850	*11,200	*11,200					*11,200	10,850	(10.98 m)
20' (6.1 m)	lb									*32,606	*32,606	*28,374	*25,772	*25,772				*24,890	21,186	37' 10"
	kg									*14,790	*14,790	*12,870	*12,870	*11,690				*11,690	9,610	(11.52 m)
15' (4.6 m)	lb					*48,215	*48,215	*37,258	*37,258	*31,129	*31,129	*27,337	24,912					*25,309	19,511	38' 11"
	kg					*21,870	*21,870	*16,900	*16,900	*14,120	*14,120	*12,400	11,300					*11,300	8,850	(11.85 m)
10' (3.0 m)	lb					*55,755	*55,755	*41,756	41,447	*33,907	31,019	*29,013	23,876	*25,816	*18,629			*25,926	18,607	39' 3"
	kg					*25,290	*25,290	*18,940	18,800	*15,380	14,070	*13,160	10,830	*11,710	8,450			*11,760	8,440	(11.97 m)
5' (1.5 m)	lb					*60,429	54,917	*45,239	39,198	*36,244	29,564	*30,468	22,972					*26,676	18,365	39' 0"
	kg					*27,410	24,910	*20,520	17,780	*16,440	13,410	*13,820	10,420					*12,100	8,330	(11.90 m)
Ground Level	lb					*62,016	54,440	*47,179	37,809	*37,721	28,550	*31,328	22,333					*27,536	18,805	38' 2"
	kg					*28,130	24,240	*21,400	17,150	*17,110	12,950	*14,210	10,130					*12,490	8,530	(11.63 m)
-5' (-1.5 m)	lb					*48,943	*48,943	*53,109	*47,421	37,214	*38,030	28,065	*31,218	22,068				*28,462	20,084	36' 7"
	kg					*22,200	*22,200	*24,090	*21,510	16,880	*17,250	12,730	*14,160	10,010				*12,910	9,110	(11.15 m)
-10' (-3.0 m)	lb	*49,979	*49,979	*71,937	*71,937	*58,312	*53,572	*45,834	37,302	*36,751	28,109						*29,366	22,575	34' 3"	
	kg	*22,670	*22,670	*32,630	*32,630	*26,450	24,300	*20,790	16,920	*16,670	12,750						*13,320	10,240	(10.43 m)	
-15' (-4.6 m)	lb	*73,194	*73,194	*67,638	*67,638	*52,867	*52,867	*41,844	38,074	*32,893	28,837						*30,049	27,161	30' 10"	
	kg	*33,200	*33,200	*30,680	*30,680	*23,980	*23,980	*18,980	17,270	*14,920	13,080						*13,630	12,320	(9.40 m)	
-20' (-6.1 m)	lb			*55,138	*55,138	*41,403	*41,403	*33,731	*33,731								*29,851	*29,851	26' 1"	
	kg			*25,010	*25,010	*19,780	*19,780	*15,300	*15,300								*13,540	*13,540	(7.96 m)	

MASS EXCAVATOR ARM

LIFTING CAPACITY – Boom: 23' 9" (7.25 m) Arm: 9' 6" (2.9 m) Bucket: 7.06 cu. yd. (5.4 m³) SAE Heaped Shoe: 34.5" (900 mm)

B	A	LIFT POINT RADIUS										AT MAX. REACH								
		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						
		Icon	Icon	Icon	Icon	Icon	Icon	Icon	Icon	Icon	Icon	Icon	Icon	Icon	Icon					
30' (9.1 m)	lb																*25,948	*25,948	29' 4"	
	kg																*11,770	*11,770	(8.93 m)	
25' (7.6 m)	lb																	*25,441	*25,441	32' 3"
	kg																	*11,540	*11,540	(9.83 m)
20' (6.1 m)	lb																	*25,772	*25,772	34' 3"
	kg																	*11,690	*11,690	(10.43 m)
15' (4.6 m)	lb																	*66,425	*66,425	35' 5"
	kg																	*30,130	*30,130	(10.79 m)
10' (3.0 m)	lb																	*56,108	*56,108	35' 10"
	kg																	*25,450	*25,450	(10.93 m)
5' (1.5 m)	lb																	*61,972	59,018	35' 7"
	kg																	*28,110	26,770	(10.85 m)
Ground Level	lb																	*60,318	*60,318	34' 7"
	kg																	*27,360	*27,360	(10.55 m)
-5' (-1.5 m)	lb	*46,606	*46,606	*79,984	*79,984	*64,066	56,218	*49,362	39,419	*39,308	29,674						*33,488	25,111	32' 10"	
	kg	*21,140	*21,140	*36,280	*36,280	*29,060	25,500	*22,390	17,880	*17,830	13,460						*15,190	11,390	(10.02 m)	
-10' (-3.0 m)	lb	*69,909	*69,909	*79,918	*79,918	*60,230	56,482	*46,694	39,485	*36,256	29,895						*34,480	28,969	30' 2"	
	kg	*31,710	*31,710	*36,250	*36,250	*27,320	25,620	*21,180	17,910	*16,140	13,560						*15,640	13,140	(9.20 m)	
-15' (-4.6 m)	lb	*91,977	*91,977	*68,189	*68,189	*52,205	*52,205	*39,771	*39,771								*34,877	*34,877	26' 4"	
	kg	*41,720	*41,720	*30,930	*30,930	*23,680	*23,680	*18,040	*18,040								*15,820	*15,820	(8.02 m)	
-20' (-6.1 m)	lb			*48,744	*48,744	*36,376	*36,376										*32,849	*32,849	20' 6"	
	kg			*22,110	*22,110	*16,500	*16,500										*14,900	*14,900	(6.25 m)	



Rating over front



Rating over side / 360 degrees

Notes:

1. Do not attempt to lift or hold any load that exceeds these rated values at their specified load radii and heights. Weight of all accessories must be deducted from the above lifting capacities.
2. Lifting capacities assume a machine standing on a level, firm, and uniform supporting surface. Operator must make allowance for job conditions such as soft or uneven ground, out of level conditions, side loads, sudden stopping of loads, hazardous conditions, inexperienced personnel, weight of various other buckets, lifting slings, attachments, etc.
3. Ratings at bucket lift hook.
4. The above rated loads are in compliance with SAE Hydraulic Excavator Lift Capacity Standard J 1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Rated loads 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 Manuals before operating this machine. Rules for safe operation of equipment should be followed at all times.
6. Capacities apply only to the machine as originally manufactured and normally equipped by KOBELCO Construction Machinery America LLC.

SK850LC GENERAL APPLICATIONS AND WEIGHT OF MATERIALS TABLE

SK850LC GENERAL APPLICATIONS:

General excavation/heavy earth moving
Trenching and underground pipelaying
Gravel & sand quarries
Coal and tar sands extraction
Road/highway/bridge construction
Building demolition
Commercial/industrial excavation/construction
Oil & gas pipeline applications
Levee rebuilding and storm reclamation

WEIGHT OF MATERIALS TABLE

MATERIAL (LOOSE WEIGHT)	lb/yd ³	kg/m ³
Wood chips	700	(420)
Peat, dry	750	(440)
Cinders	950	(560)
Peat, wet	1,170	(690)
Top soil	1,600	(950)
Coal	1,780	(1050)
Caliche	2,100	(1250)
Earth, loam	2,100	(1250)
Shale	2,250	(1330)
Sand, dry	2,400	(1420)
Clay, dry	2,500	(1480)
Earth, dry	2,550	(1510)
Limestone, broken or crush	2,600	(1540)
Earth, wet	2,700	(1600)
Clay, wet	2,800	(1660)
Rock, granite, blasted & broken	2,800	(1660)
Sand, moist	2,850	(1690)
Sand and gravel, dry	2,900	(1720)
Sand, wet	3,100	(1840)
Sand and gravel, wet	3,400	(2020)



SK850LC



SK850LC

Efficiency – Fuel Economy & Low O&O

Many variables go into determining fuel economy of an excavator. Our customers tell us that the SK850LC achieves between 15gph and 16gph in general earthmoving (sandy loam/clay) with a 5 cu. yd. bucket.

The SK850LC draws less fuel while delivering higher productivity than machines smaller in size and capacity.

In addition to great fuel economy, the SK850LC boasts an excellent track record for low owning and operating costs.

So, now that you're ready to take that big step, step-up to the Kobelco SK850LC Super Acera. It's Big, Powerful, Productive and will beat the pants off almost anything in its class. Oh, and it saves on fuel too – Big Time!!

Feel the passion we've built into the new Kobelco SK850LC Super Acera excavator. See your nearest Kobelco dealer today, or use our dealer locator at www.kobelcoamerica.com to find the dealer nearest you.

Designed with Attachments in Mind

Kobelco doesn't just design excavators; we design excavators for use with attachments for the jobsite.

- High-capacity hydraulic system is adjustable from inside the cab
- Standard one or two-way auxiliary valve makes it easy to install piping and controls for auxiliary hydraulics
- Two auxiliary hydraulic modes permit switching between one-way and two-way flow without leaving the cab to manually switch a valve (with auxiliary hydraulics installed)
- An optional independent flow 'extra' circuit, with dedicated rotary gear pump, provides flow for multi-function attachments that include thumbs or twist buckets



STANDARD EQUIPMENT

- AM/FM radio
- Arm, (Heavy-Duty) 14' 5" (4.4 m) with vertical ribbed rock guard, tapped blocks, breaker ready
- Audible warning system for high coolant temperature, low engine oil pressure, clogged air filter and oil replacement interval
- Auxiliary valve with flow control
- Automatic swing and travel parking brakes
- Automatic engine accel/decel feature
- Automatic engine & hydraulic warm up function
- Boom: (Heavy-Duty) 27' 1" (8.25 m)
- Boom and arm holding (anti-drift) valves
- Breaker valve with flow control
- Cab is die formed, modular steel full-vision, sound insulated, with viscous silicon-filled mounts, windshield wiper, heater and defroster, cigarette lighter, ashtray, floor mat, cab light, control lever lock, tinted skylight with damper cylinder
- Climate control air conditioning/heating system
- Computer system displays multiple service items and fault codes - accessible from cab
- Counter weight 29,321 lbs (13,300 kg)
- Display monitor mounted on multi-function console provides status of following: aging of engine oil, fuel and hydraulic filters, system status, engine preheat, low engine, oil pressure, engine coolant temperature, air cleaner restriction, battery charging, fuel level, CPU error and tachometer. Beneath monitor are switches for auto-decel, windshield washer and wiper, mode selector, one/two pump auxiliary hydraulics and swing flashers
- Dual element air cleaner
- Dual swing motors
- Electric horn
- Emergency electronic bypass
- Engine make/model: KDI SAA6D140E-5
- Engine lowers rpms automatically if low oil pressure occurs
- Floor mat - removable, washable, replaceable
- Fuel tank : 254 gallons (960 liters)
- Heavy duty batteries (2 x 12 volt 160 AH)
- Hydraulic track adjusters
- Lifetime lubricated track rollers and idlers
- Mode selection:
 - H Mode—Heavy-duty excavation work
 - S Mode—Standard digging and loading work
 - B Mode—Breaker work
 - A Mode—Demolition work with crusher/nibbler-breaker
- Heavy-Duty X-Frame undercarriage
- Power outlet, 24 volt to 12 volt converter
- Proportional auto accel system
- Removable cleanout screens for radiator & condensers
- Removable travel levers with toe tabs

- Nine (9) track rollers, (3) upper rollers per side
- Side-by-side radiator, oil cooler with turbocharger intercooler
- Starting motor (24 v/11.0 KW) 60 amp alternator
- Straight travel system
- Storage compartment for manuals
- Suspension seat—7-way adjustable w/ safety belt
- Swing and travel automatic parking brakes
- Swing flashers recessed into counterweight.
- Swing priority (trenching system) functions automatically
- Swing shockless valve
- Tool box storage with side access
- Track shoes: 35.4" (900 mm) semi-double bar grouser
- Travel Alarm
- Travel—two speed with automatic shift
- Two lever control for boom, arm, bucket and swing; pilot operated wrist controls and foot pedals
- Warm up function of engine and hydraulic system, functions automatically
- Work lights—two front and two rear

OPTIONAL EQUIPMENT

- Arm: 9' 6" (2.9 m) with rock guard
- Arm: 11' 10" (3.6 m) with rock guard
- Arm: 17' 9" (5.4 m) with rock guard
- Track shoes: 30" (750 mm) double-bar grouser
- Mass Arm: 9' 6" (2.9 m) with rock guard
- Boom (MASS): 23' 9" (7.25 m)
- Combined one-way or two way auxiliary hydraulic piping (one or two pump) with hand or foot controls
- Control pattern changer (SAE/BHL)
- Extra-Heavy Counterweight* 35,935 lbs. (16,300 kg)
- Counterweight Removal System
- Hydraulic oil for cold or tropical environments
- Large selection of ESCO & HENSLEY buckets
- Rotation pump and valve
- Piping (boom/arm) for rotational hydraulics
- Vandalism guards

* Extra-Heavy Counterweight recommended with 17' 9" Long arm (weight is approximate)
 NOTE: Due to our policy of continual product improvement, all designs and specifications are subject to change without advance notice.

WORLD CLASS PRODUCTS DEMAND WORLD CLASS DEALERS

The purchase of a Kobelco excavator isn't the end, it's the beginning of our relationship together. Consider your local Kobelco dealer as your partner in productivity who will work with you to supply your business needs. Whether you need assistance in selecting the right model for your operation or developing an affordable leasing or financing plan through CNH Capital, your Kobelco dealer can offer you sound advice because he has decades of heavy equipment experience.

Downtime can happen at any time. And that's the best time to know you've got your Kobelco dealer's full service capabilities. He's the 'one stop shop' who is just down the street. Genuine Kobelco parts and all makes parts coverage, where and when you need them. Factory-trained service technicians, warranty experts and parts manager who are excavator experts. Fully equipped service vehicles which can bring responsive support to you quickly, to get you back up and running. Even customized professional maintenance programs, operator and technical training. You want your Kobelco equipment investment to be productive and keep your operation moving. **So do we.**



Your business deserves nothing less than world class product, supported by a world class business partner. That's your Kobelco dealer—your partner in productivity.

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Kobelco Construction Machinery America LLC
245 E. North Avenue
Carol Stream, IL 60188-2021
866-726-3396 Toll Free
630-260-4000
630-260-4304 Fax

www.kobelcoamerica.com

Products represented in this brochure may include optional equipment.

Note: Due to our policy of continual product improvement, all design, materials and/or specifications are subject to change without advance notice and without liability therefor. Specifications are applicable to units sold in Canada, the United States, its territories and possessions, and may vary outside these areas.

Safety begins with a thorough understanding of the equipment. Always make sure you and your operators read the Operator's Manual before using the equipment. Pay close attention to all safety and operating decals and never operate machinery without all shields, protective devices and structures in place.