# **KOBELCO**

**Hydraulic Excavator** 

-11 SERIES

SK300LC

KOBELCO



■ Bucket Capacity:

0.75-1.875 cu.yd. SAE

**■** Engine Power:

265 hp {197 kW} / 1,900 rpm (SAE NET)

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**■** Operating Weight:

69,200 lb {31,400 kg}











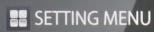


# **KOBELCO**

















SCREEN BRIGHTNESS





MAINTENANCE



CONSUMPTION



LANGUAGE SELECTION







# **SAFETY ON FULL DISPLAY**

#### **Standard 3 Sides Safety Camera System**

Our high-resolution, large display shows right, left and rear side cameras together. Multiple display allows the operator to customize viewing needs to enhance operator awareness and jobsite safety.







#### **Large 10-Inch Color Monitor**

The easy-to-operate menu screen and recognizable icons assist the operator to select the most important information needed to ensure jobsite safety and machine control.



### **Dial in the Right Information**

Simply turn the jog dial to the right or left to select an operational feature, then press the dial to confirm selection.







# **PREMIER OPERATOR COMFORTS**

#### **Heated Air Ride Suspension Seat**

A 7-way adjustable seat achieves excellent shock absorption and superior ride comfort.

#### **Multi Vent Air Conditioner**

Cool air is blown from multiple outlets toward the operator's body for more comfortable operation.

#### **Ergonomic Lever Angles**

Operators can move levers horizontally without twisting their wrists, reducing fatigue.



### **Adjustable Height Joysticks**

Joystick height is manually adjustable to suit operator's preference.

### **LED Interior Light**

Interior lights turn on and off automatically when the door is open or the ignition is turned to the OFF position. This ensures safe entry and exit in the dark.

#### **Tilting Left Side Console**

Flip-up left console with integrated pilot control lock lever tilts for easy entry and exit from the cab.





In our pursuit of functional beauty and styling, we created an all new interior design focused with the operator in mind.

#### **Jog Dial**

This dial integrates multiple functions into a single, easy to use interface. Even with gloves on, the operator can make the adjustments they need.

#### **LED Illumination**

Dials and buttons are now backlit to provide a bright, clear view in any lighting condition.





# **GREATER MULTI-FUNCTION CAPABILITIES**

#### **Attachment Mode Selection**

The auxiliary flow rates for the bucket, breaker, nibbler and thumb are all now adjustable by the operator through the monitor, allowing you to change tools quickly and easily. Mode settings for other attachments like the tilt rotator can be added or changed.









**Engine Maintenance** Lower service platform makes engine service easier.



Two-Stage Air Filter



**DEF Tank**The DEF fill is located inside the locking tool box.



Left Side (Radiator and Cooling System Elements)

Laid out for easy access to radiator and cooling system with clean out screen.



Right Side (Ground Level Maintenance)

Hydraulic pump and engine filter compartment.



Engine Oil Filter / Pre-Filter with Integrated Water Separator



**Fuel Filter** 

### **DURABILITY YOU CAN TRUST**

#### **Heavier Door Panels and Supports for Added Body Rigidity**

Newly designed and reinforced rear right and left doors provide added protection for the radiator and pump compartments.





#### **Angled Upper Deck Guards**

Angled upper deck guards run along the side of the upper body to protect door panels from impact and damage.



#### **Bucket Cylinder Rod Pin**

The increased diameter of the bucket cylinder rod pin contributes to enhanced durability for various types of attachments.

\*Bucket pin dimensions have not changed from previous models.

### **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.

#### **Fuel Consumption Data**

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

#### **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.

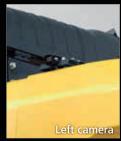
#### Area Alarm

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

# **SAFETY AND CONVENIENCE IN EVERY CORNER**







**Swing Flashers for a Safer Jobsite** 

Standard swing flashers notify ground workers that the machine is swinging.



Travel Alarm



**Single Pedal Travel** 





1 on upper frame **Standard 7 LED Lights** 

Bright LED lights ensure visibility even during night work.





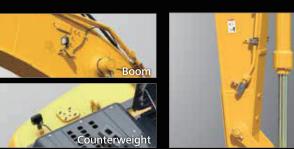
Wire Mesh or Vertical Bar Front Cab Guard (optional)



**Battery Disconnect Switch** with DEF Purge Notification **Buzzer** 



**Machine Guidance Ready Brackets** Pre-welded brackets for quicker and easier installation of Machine Guidance Systems.



**Quick Coupler Piping Brackets** 



**Adjustable Height Joystick** Consoles

The operator can adjust height of attachment control levers.



Hands-Free Bluetooth® **Phone Calls** 



**USB Charging Port / 12V Power Outlet** 



**Smartphone Holder** Includes USB port for charging.

# **Specifications**

### **I** Engine

Model	ISUZU 6HK1	
Туре	Direct injection, water-cooled, 4-cycle diesel engine with turbocharger, intercooler, Tier IV Final certified	
No. of cylinders 6		
Bore and stroke	4.5" × 4.9" {115 mm × 125 mm}	
Displacement	475.4 cu.in {7,790 L}	
Rated power output	265 hp {197 kW} /1,900 rpm (SAE NET)	
nateu power output	282 hp {210 kW} /1,900 rpm (Without fan)	
Max. torque	745 lb-ft {1,011 N·m} /1,500 rpm (SAE NET)	
	797 lb-ft {1,080 N·m} /1,500 rpm (Without fan)	

# **I** Hydraulic System

Pump				
Type Two variable displacement pumps + one gear pump				
Max. discharge flow				
Relief valve setting				
<b>Boom, arm and bucket</b> 4,970 psi {34.3 MPa}				
Power Boost	5,480 psi {37.8 MPa}			
Travel circuit 4,970 psi {34.3 MPa}				
Swing circuit 4,210 psi {29.0 MPa}				
Control circuit 725 psi {5.0 MPa}				
Pilot control pump	Gear type			
Main control valve	8-spool			
Oil cooler	Air cooled type			

### **I** Swing System

Swing motor	Axial piston motor	
Brake	Hydraulic; locking automatically when the swing control lever is in neutral position	
Parking brake	Oil disc brake, hydraulic operated automatically	
Swing speed	10.3 rpm	
Swing torque	72,723 lb-ft {98.6 kN·m}	

### I Hydraulic P.T.O.

Output Specification	Maximum pressure psi {MPa}	Max. flow U.S. gpm, {lpm} (0 pressure) 1,900 rpm	
Auxiliary	4,970 {34.3}	2 × 64.7 {2 × 245}	
Rotation	3,263 {22.5}	11.7 {44.3}	

### **I** Travel System

Travel motors	2 x axial-piston, two-step motors	
Travel brakes	Hydraulic brake per motor	
Parking brakes Oil disc brake per motor		
<b>Travel shoes</b> 50 each side		
Travel speed	3.2/1.9 mph {5.2/3.1 km/h}	
Drawbar pulling force 62,700 lb {279 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.

Control	
Two hand levers and two foot pedals for travel	
Two hand levers for excavating and swing	
Electric rotary-type engine throttle	

### Boom, Arm & Bucket

Boom cylinders	5.5" {140 mm} × 4'3" {1,305 mm}
Arm cylinder	5.9" {150 mm} × 5'6" {1,675 mm}
Bucket cylinder	5.1" {130 mm} × 4'0" {1,208 mm}

### **I** Refilling Capacities & Lubrications

Fuel tank 132.9 U.S.gal {503 L}		
Cooling system	10.8 U.S.gal {41 L}	
Engine oil	12.8 U.S.gal {48.6 L}	
Travel reduction gear	2 × 2.0 U.S.gal {7.5 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	
Hydraulic oil talik	108.3 U.S.gal {410 L}: Hydraulic system	
DEF tank	21.9 U.S.gal {83 L}	



# **I** Working Ranges

Unit: ft-in {m}

Boom 20'4" {6.20 m}		5.20 m}
Range Arm	Standard 10'2" {3.10 m}	Long 13′1″ {4.00 m}
a-Max. digging reach	35'8" {10.86}	38′5″ {11.71}
b-Max. digging reach at ground level	35'0" {10.67}	37'10" {11.54}
c- Max. digging depth	23'7" {7.20}	26'7" {8.10}
d-Max. digging height	32'10" {10.01}	34'3" {10.43}
e-Max. dumping clearance	23'4" {7.10}	24'8" {7.53}
f- Min. dumping clearance	8'5" {2.56}	5′5″ {1.66}
g-Max. vertical wall digging depth	20'3" {6.17}	23'0" {7.02}
h-Min. swing radius	14'6" {4.43}	14'11" {4.55}
i- Horizontal digging stroke at ground level	18'4" {5.58}	23'3" {7.09}
j- Digging depth for 8' {2.4 m} flat bottom	21′3″ {7.04}	26'2" {7.97}
Bucket capacity SAE heaped cu.yd. {m³}	1.57 {1.20}	1.31 {1.00}

# Digging Force (ISO 6015)

Unit: Ib {kN}

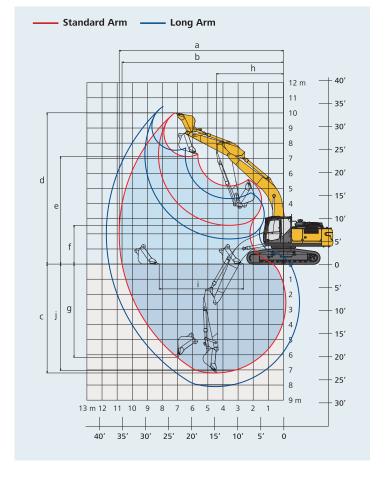
Arm length		Standard 10'2" {3.10 m}	Long 13′1″ {4.00 m}
Bucket digging force	SAE	37,300 {166} 41,100 {183}*	
bucket digging force	ISO	42,300 {188} 46,800 {208}*	
Arm crowding force	SAE	27,400 {122} 30,100 {134}*	22,700 {101} 25,200 {112}*
	ISO	28,300 {126} 31,200 {139}*	23,600 {105} 25,900 {115}*

\*Power Boost engaged.

# Dimensions

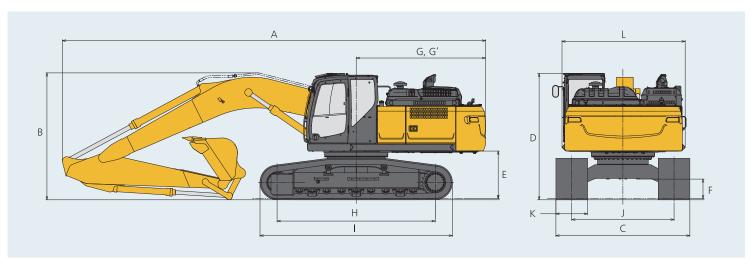
Unit:	ft-in	{mn
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Aı	m length	Standard 10'2" {3.10 m}	Long 13′1″ {4.00 m}
Α	Overall length	35'2" {10,710}	35'4" {10,780}
В	Overall height (to top of boom)	10'6" {3,210}	11'4" {3,450}
C	Overall width	11'1" {3,390}**	
D	Overall height (to top of cab)	10'6" {3,200}	
Ε	Ground clearance of rear end*	3'11" {1,200}	
F	Ground clearance*	19′3″ {490}	



G	Tail swing radius	10′10″ {3,300}
G′	Distance from center of swing to rear end	10′9″ {3,270}
Н	Tumbler distance	13′1″ {4,000}
1	Overall length of crawler	16′0″ {4,870}
J	Track gauge	8′6″ {2,590}
K	Shoe width	31.5" {800}/35.4" {900}
L	Overall width of upperstructure	10′3″ {3,120}

\*Without including height of shoe lug. \*\*Shoe width: 31.5" {800 mm}

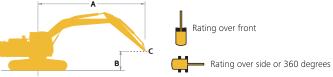


# **Operating Weight & Ground Pressure**

In standard trim, with standard boom, 10'2" {3.10 m} arm, and 1.57cu.yd. {1.20 m³} ISO heaped bucket

Shaped		Single grouser shoes (even height)	Triple grouser shoes (even height)			
Shoe width	ft-in {mm}	31.5" {800}	31.5" {800}	35.4" {900}		
Overall width of crawler	ft-in {mm}	11′.1″ {3,390}	11′.1″ {3,390}	11′5″ {3,490}		
Ground pressure	psi {kPa}	6.5 {45}	6.5 {45}	5.8 {40}		
Operating weight	<b>l</b> b {kg}	69,000 {31,300}	69,200 {31,400}	70,100 {31,800}		

**Lift Capacities** 



- A Reach from swing centerline to arm top
- B Arm top height above/below ground
- C Lift point {kg}

Relief valve setting {Heavy Lift}: 5,480 psi {37.8 MPa}

SK300	LC	Boom: 2	20′4″ {6.20	0 m} Arm	ı: 10′2″ {3	.10 m} B	ucket: W	ithout Co	ounterwei	ght: 10,90	00 lb {4,94	10 kg} Sh	oes: 31.5	{800 mm	} {Heavy L	.ift}
	Α	5′ {1.5 m}		10′ {3.0 m}		15′ {4.6 m}		20′ {6.1 m}		25′ {7.6 m}		30′ {9.1 m}		At max. reach		
В		1	<b>—</b>	1	<del></del>	1	<del>#</del> —	1	<del>#</del> —	1	<del></del>	1	<del></del>	1	<del></del>	Radius
25' {7.6 m}	lb {kg}													*9,510 {4,310}	*9,510 {4,310}	24'1"{7.35 m}
20' {6.1 m}	lb {kg}									*14,140 {6,410}	13,020 {5,900}			*8,980 {4,070}	*8,980 {4,070}	27'3"{8.33 m}
15' {4.6 m}	lb {kg}							*16,480 {7,470}	*16,480 {7,470}	*15,110 (6,850)	12,690 (5,750)			*8,870 {4,020}	*8,870 {4,020}	29'3"{8.93 m}
10' {3.0 m}	lb {kg}					*26,450 {11,990}	25,610 {11,610}	*19,720 {8,940}	16,890 {7,660}	*16,740 (7,590)	12,210 (5,530)	*11,190 {5,070}	9,240 {4,190}	*9,080 {4,110}	*9,080 {4,110}	30'3"{9.24 m}
5′ {1.5 m}	lb {kg}					*32,300 {14,650}	23,860 (10,820)	*22,870 {10,370}	16,000 {7,250}	*18,490 (8,380)	11,730 (5,320)	*12,980 {5,880}	9,030 {4,090}	*9,610 {4,350}	8,830 {4,000}	30'5"{9.28 m}
G.L.	lb {kg}					*35,170 {15,950}	23,070 {10,460}	*25,110 {11,380}	15,410 {6,980}	18,390 (8,340)	11,380 (5,160)			*10,580 {4,790}	9,000 {4,080}	29'9"{9.06 m}
-5' {-1.5 m}	lb {kg}			*26,360 {11,950}	*26,360 {11,950}	*35,630 {16,160}	22,910 {10,390}	25,360 (11,500)	15,170 (6,880)	18,230 (8,260)	11,240 {5,090}			*12,270 {5,560}	9,670 (4,380)	28'1"{8.57 m}
-10' {-3.0 m}	lb {kg}	*30,480 {13,820}	*30,480 {13,820}	*41,480 {18,810}	*41,480 {18,810}	*34,090 {15,460}	23,130 (10,490)	*25,350 {11,490}	15,260 (6,920)	18,400 (8,340)	11,400 (5,170)			*15,500 {7,030}	11,200 (5,080)	25'4"{7.73 m}
-15' {-4.6 m}	lb {kg}			*42,020 {19,050}	*42,020 {19,050}	*29,790 {13,510}	23,770 (10,780)	*21,700 {9,840}	15,780 (7,150)					*19,930 {9,040}	14,760 (6,690)	21'1"{6.42 m}

SK300LC		Boom: 2	0′4″ {6.20	0 m} Arm	n: 13′1″ {4	.00 m} B	ucket: W	ithout Co	ounterwei	ght: 12,20	00 lb {5,54	10 kg} Sh	oes: 31.5	{800 mm	} {Heavy I	_ift}
	Α	5′ {1.5 m}		10′ {3.0 m}		15′ {4.6 m}		20′ {6.1 m}		25′ {7.6 m}		30′ {9.1 m}		At max. reach		
В		1	<b>#</b>	-	<del></del>	1	<del>#</del> —	1	<del></del>	-	<del></del>	1	<del></del>	1	<del>#</del> —	Radius
25' {7.6 m}	lb {kg}									*11,280 (5,110)	*11,280 {5,110}			*6,660 {3,020}	*6,660 {3,020}	27'7"{8.41 m}
20' {6.1 m}	lb {kg}									*11,530 {5,220}	*11,530 {5,220}	*7,790 {3,530}	*7,790 {3,530}	*6,320 {2,860}	*6,320 {2,860}	30'5"{9.27 m}
15' {4.6 m}	lb {kg}									*12,750 (5,780)	*12,750 {5,780}	*12,100 {5,480}	9,850 (4,460)	*6,240 {2,830}	*6,240 {2,830}	32'2"{9.81 m}
10' {3.0 m}	lb {kg}			*34,840 {15,800}	*34,840 {15,800}	*21,420 {9,710}	*21,420 {9,710}	*16,760 {7,600}	*16,760 {7,600}	*14,550 (6,590)	12,740 (5,770)	*13,470 {6,100}	9,560 (4,330)	*6,360 {2,880}	*6,360 {2,880}	33′1″{10.09 m}
5′ {1.5 m}	lb {kg}					*28,100 {12,740}	25,300 {11,470}	*20,250 {9,180}	16,730 {7,580}	*16,540 {7,500}	12,130 {5,500}	*14,570 {6,600}	9,230 {4,180}	*6,680 {3,020}	*6,680 {3,020}	33′3″{10.13 m}
G.L.	lb {kg}			*16,660 {7,550}	*16,660 {7,550}	*32,540 {14,750}	23,900 {10,840}	*23,090 {10,470}	15,890 {7,200}	*18,290 (8,290)	11,630 {5,270}	14,410 (6,530)	8,960 {4,060}	*7,260 {3,290}	*7,260 {3,290}	32'7"{9.93 m}
-5' {-1.5 m}	lb {kg}	*15,730 {7,130}	*15,730 {7,130}	*23,940 {10,850}	*23,940 {10,850}	*34,490 {15,640}	23,340 (10,580)	*24,800 {11,240}	15,420 {6,990}	18,520 {8,400}	11,330 (5,130)	14,280 (6,470)	8,840 {4,000}	*8,240 {3,730}	*8,240 {3,730}	31′1″{9.48 m}
–10′ {–3.0 m}	lb {kg}	*24,070 {10,910}	*24,070 {10,910}	*33,890 {15,370}	*33,890 {15,370}	*34,350 {15,580}	23,330 (10,580)	*25,130 {11,390}	15,320 (6,940)	18,470 (8,370)	11,290 (5,120)			*9,960 {4,510}	9,470 (4,290)	28'8"{8.74 m}
-15' {-4.6 m}	lb {kg}	*34,100 {15,460}	*34,100 {15,460}	*46,970 {21,300}	46,970 (21,300)	*31,950 {14,490}	23,760 (10,770)	*23,580 {10,690}	15,590 {7,070}					*13,470 {6,100}	11,640 (5,270)	25'0"{7.62 m}
-20' {-6.1 m}	lb {kg}			*37,130 {16,840}	*37,130 {16,840}	*25,700 {11,650}	24,770 (11,230)							*18,510 {8,390}	17,290 (7,840)	19'3"{5.88 m}

#### Note

- 1. Do not attempt to lift or hold any load that is greater than these lift capacities at their specified lift point radius and heights. Weight of all accessories must be deducted from the above lift capacities.
- 2. Lift capacities are based on machine standing on level, firm, and uniform ground. User must make allowance for job conditions such as soft or uneven ground, out of level conditions, side loads, sudden stopping of loads, hazardous conditions, experience of personnel, etc.
- 3. Bucket pin attachment point defined as lift point.
- 4. The above lift capacities are in compliance with ISO 10567. They do not exceed 87% of hydraulic lift capacity or 75% of tipping load. Lift capacities marked with an asterisk(\*) are limited by hydraulic capacity rather than tipping load.
- 5. Operator should be fully acquainted with the Operator's and Maintenance Instructions before operating this machine. Rules for safe operation of equipment should be adhered to at all times.
- 6. Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.



# **Standard and Optional Equipment**

●=Std ○=Opt

Category	Description	SK300LC-11 LC
Engine	ISUZU 6HK1 (Tier IV Final certified)	•
3	Auto engine acceleration/deceleration	•
	Auto Idle Stop	•
Hydraulic system	3 work modes H, S, Eco	•
	Power boost	•
	Heavy lift mode	•
	Hydraulic Pressure Release	•
	Independent travel	•
	Swing priority	•
	Boom to arm regeneration	•
	Auto warm-up system	•
	Bi-direction (proportional hand control) and single-direction auxiliary hydraulics (nibbler and breaker)	•
	Rotation hydraulics with proportional hand control	0
	Hydraulic oil VG46	•
Cabin	Air suspension seat with heat	•
	10-inch color monitor	•
	LED door light	•
	Automatic climate control	•
	Radio (AM/FM, AUX, USB, Bluetooth® and hands-free telephone)	•
	12V power outlet	•
Lights	7 LED work lights: 2 on boom, 2 on cab front, 2 on rear counterweight, 1 on front right	•
Working equipment	Standard HD boom 20'4" {6.20 m}	•
working equipment	Standard HD arm 10'2" {3.10 m} with rock guard	•
	Long HD arm 13'1" {4.00 m} with rock guard and heavy C/W 12,200 lbs {5,540 kg}	0
Counterweight	Standard C/W 10,900 lb {4,940 kg} with swing flashers	•
Undercarriage	31.5" {800 mm} triple grouser shoe	
onacicarriage	31.5" {800 mm} single grouser shoe	0
	35.4" {900 mm} triple grouser shoe	0
	Lower swivel guard	•
	Track guides (three per side)	
Safety	ROPS cab (ISO 12117-2:2008)	•
Surcey	Tilt opening top cab guard (Top guard level II ISO 10262:1998)	•
	Bar-type front guard (Front guard level II ISO 10262:1998)	0
	Mesh-type front guard (Front guard level I ISO 10262:1998)	
	Engine emergency stop switch	
	3-inch retractable seat belt	
	Seatbelt indicator on display	
	Travel alarm	
	Swing flashers in counterweight	
	Left and right side mirrors	
	3-side 270-degree camera system	
	Hose burst valve for boom and arm cylinder	0
Othors	·	
Others	Angled upper deck guards  Machine Guidance ready brackets	•
	Quick coupler piping ready brackets	
	ISO to BHL pattern changer	
	Battery disconnect switch	•
	KOMEXS Machine Monitoring	
	4 Year or 4,000 Hour Warranty	•
	Single pedal travel	

Note: Bluetooth® is a registered trademark of the Bluetooth SIG Inc.

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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#### **KOBELCO CONSTRUCTION MACHINERY U.S.A. INC.**

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