# KOBELCO

KOBELLO

# CONSTRUCTION MACHINERY LINE-UP





## Superb, Uniform Quality



Japan's first electric shovel in 1930

In 1930, Kobe Steel manufactured Japan's first domestically produced electric shovel, followed by Japan's first hydraulic excavator in 1963. Since then, the KOBELCO brand has been associated with groundbreaking construction machinery ranging from civil engineering equipment to machines used in recycling operations.

In developing new products, we always start with actual worksites. What do owners

and operators really need in today's market? What are the onsite conditions, and how can we make operations easier, faster, and more efficient? By asking the right questions from the start, we've created an impressive lineup of machines that have won international praise for their excellent performance, fuel efficiency, and whisper-guiet operation.

## **Around the Globe**

We are always prepared to conduct research and development from the customer's perspectives. We create new values by further deepening the ingenious technology we have developed to date as well as effectively using the latest technology such as three- dimensional CAD and structural analysis and basic research.

We have an ideal system tailored to customer needs. Those needs are analyzed at worksites throughout the world, forming the basis for developmental work at Production Division and the Product Development Engineering Division and the new plant, including the invention of efficient production technologies. We then transfer the results to our various production centers throughout the world, making it possible for us to quickly and reliably deliver machines



featuring unprecedented fuel efficiency, productivity, durability, and advanced technology to customers around the globe.

Hiroshima Headquarters

Itsukaichi Factory in Hiroshima

## **PRODUCT BRANDS CONCEPT**

## Performance



Improved power and cycle speed increase work efficiency and productivity.

### Perceivable performance

High-output engine which conforms to the

### Approaches to multifunction and diversity

10-inch color monitor Attachment mode

#### Safety

### **Ease of maintenance**

iNDr high-density mesh filter which removes dust, KOMEXS which totally supports machines









Design

KOBELCO has realised a completely new value by harmonising PERFORMANCE – greater efficiency and productivity with an increased power and speed and DESIGN – operator-based operability and comfort, refusing to accept any compromises. In pursuit of unique and matchless machines which are unforgettable once you use them, KOBELCO will continue to rise to meet every challenge.

### DESIGN

Our pursuit of operability and comfort primarily for operators created the beauty of simplicity.

### Design contributing to comfort

Comfortable and cozy cab



### Design contributing to operability

Jog dial that allows simple operations LED backlights



### Interior and exterior designs

- Solid & Advanced exterior design
- High-Grade & Advanced interior design



## **CONVENTIONAL SERIES**



### SKEDDI: SKEEDI:



#### Model: HINO E13CYM

Engine output 300 kW / 1,900 min<sup>-1</sup> (ISO 14396)

Cycle time
 (1. Digging | 2. 90° swing | 3. Dumping | 4. 90° swing)
 < H-mode >
 Shortened by 5.1%
 (Compared to H-mode on SK500LC-10)

>>> Fuel consumption
(Fuel usage per hour)
< S-mode >
Improved by 5.4%
(Compared to S-mode on SK500LC-10)

#### >>> Productivity

(Digging volume/Fuel) < Eco-mode > Increased by 6.2% (Compared to Eco-mode on SK500LC-10)

### SK530LC (MVLC)



Crawler width can be adjusted by fixing bolt positions to comply with transport regulations.

\*MVLC is standard equipment for SK530LC.

#### **Independent Travel**



Selecting Independent Travel dedicates one hydraulic pump to travel and one to the attachment on a continuous basis, allowing for a smooth and constant movement speed even while swinging or using the boom or attachment.

With Independent Travel, safely carrying a large pipe across a job site is a breeze.



#### **Heavy Lift**



High hydraulic pressure (Heavy Lift) means greater lifting power, at close radius, allowing for smooth and steady operation while moving heavy objects.

### Swing Priority

Our exclusive system automatically and instantly delivers full swing power during combined operations. There's no need to switch modes to make quick work of jobs like side-digging and back-filling.

### **Greater Multi-function Capabilities**

#### Adjustment for hydraulic flow

Divide ratio of hydraulic flow can be adjusted by service staff for custom usage.



## **CONVENTIONAL SERIES**



Model		SK130LC	SK180N	SK210NLC
Bucket Capacity	m <sup>3</sup>	0.24 - 0.70	0.63	0.45 - 0.80
Engine Power (ISO 14396)	kW/min <sup>-1</sup>	78.5/2,000	100/2,000	124/2,000
Operating Weight	kg	14,200 - 17,100	19,700 - 21,200/19,000 - 20,300*1	21,900 - 24,500/21,900 - 24,100*2
Bucket Digging Force (Power	Boost) kN	105.4	114 (126)	143 (157)
Arm Crowding Force (Power B	loost) kN	64.0	82.3 (90.6)	102 (112)
Overall Length	mm	7,770	8,700	9,600
Overall Width	mm	2,590	2,800/2490*1	2,990/2,800*2
Overall Height	mm	2,920	3,080	3,060

SK180N \*2SK210NLC



Model	SK260LC SK260NLC	SK300LC SK300NLC	SK350LC SK350NLC
Bucket Capacity m <sup>3</sup>	0.80 - 1.40	0.60 - 1.40	1.20 - 1.80
Engine Power (ISO 14396) kW/min <sup>-1</sup>	138/2,100	200/2,100	213/2,100
Operating Weight kg	26,500 - 27,900/26,400 - 27,400*1	30,500 - 33,000/30,500 - 32,000**2	36,700 - 39,300/36,600 - 38,400**3
Bucket Digging Force (Power Boost) kN	170 (187)	188 (208)	222 (244)
Arm Crowding Force (Power Boost) kN	122 (134)	126 (139)	163 (180)
Overall Length mm	10,210	10,710	11,300
Overall Width mm	3,190/2,990*1	3,190/2,990*2	3,190/2,990*3
Overall Height mm	3,240	3,260	3,420

\*1SK260NLC \*2SK300NLC \*3SK300NLC

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## **CONVENTIONAL SERIES**



## SKEDOL SKEEOL

Model		SK500LC	SK500LC ME	SK530LC	SK530LC ME
Bucket Capacity	m <sup>3</sup>	1.4 - 2.4	1.4 - 3.4	1.4 - 2.4	1.4 - 3.4
Engine Power (ISO 14396) kW/	min <sup>-1</sup>		300/	1,900	
Operating Weight	kg	50,600 - 52,500	52,600 - 54,500	52,100 - 53,400	52,500 - 53,800
Bucket Digging Force (Power Boost)	kN	267 (292)	288 (312)	267 (292)	288 (312)
Arm Crowding Force (Power Boost)	kN	203 (222)	247 (270)	203 (222)	247 (270)
Overall Length	mm	12,160	11,910	12,110	11,830
Overall Width (For transportation)	mm	3,3	350	3,490	2,990)
Overall Height	mm	3,620	4,240	3,630	4,290



## SKCEDic

Model		SK850LC		
		Standard Boom	Mass Excavation	
Bucket Capacity	m <sup>3</sup>	2.3 - 4.6	5.4 (ME)	
Engine Power (ISO 14396)	kW/min <sup>-1</sup>	380/1,800		
Operating Weight	kg	80,200 - 86,500	80,200 - 86,600	
Bucket Digging Force	kN	403	432	
Arm Crowding Force	kN	311	351	
Overall Length	mm	14,530	13,590	
Overall Width	mm	4,440/	/3,400	
Overall Height	mm	3,7	70	



**Competent Performance** 

## Our high-power engine complies with new STAGE V emission standards for SK75SR and SK85MSR.

Compared to previous models, the engine output is significantly increased, which thereby shortens the digging cycle time remarkably. It attains high performances without reducing the speed even when heavy a load is applied or when travelling on a slope.



Model:YANMAR 4TNV98CT

**Engine output** 

Increased by **27.9**%

Digging cycle time Shortened by 15%

Loaded boom lifting speed

Arm digging speed

ncreased by 37%

>>>> Hill-climbing speed

## Increased by 26.9%

\* Figures show the values of SK75SR. These values are compared with the SK75SR-3E model.

Model		SK75SR
Bucket Capacity	m <sup>3</sup>	0.11 - 0.35
Engine Power (ISO 14396)	kW/min <sup>-1</sup>	53.7/2,100
Operating Weight	kg	7,800 - 8,300
Bucket Digging Force	kN	60.2
Arm Crowding Force	kN	35.2
Overall Length	mm	6,360
Overall Width	mm	2,300
Overall Height	mm	2,570



Model		SK85MSR
Bucket Capacity	m <sup>3</sup>	0.11 - 0.35
Engine Power (ISO 14396)	kW/min <sup>-1</sup>	53.7/2,100
Operating Weight	kg	8,480 - 9,250
Bucket Digging Force	kN	60.3
Arm Crowding Force	kN	33.7
Overall Length	mm	6,750
Overall Width	mm	2,300
Overall Height	mm	2,570





## SK140SR

Model		SK140SRLC	SK140SRL
Bucket Capacity	m <sup>3</sup>	0.24 - 0.70	0.5
Engine Power (ISO 14396)	kW/min <sup>-1</sup>	86/2,200	86/2,200
Operating Weight	kg	15,000 - 18,200	16,900 - 18,400
Bucket Digging Force	kN	105.4	105.4
Arm Crowding Force	kN	64.0	64.0
Overall Length	mm	7,530	7,460
Overall Width	mm	2,590	2,840
Overall Height	mm	2,870	3,050



Model		ED160
Bucket Capacity	m <sup>3</sup>	0.24 - 0.70
Engine Power (ISO 14396)	kW/min <sup>-1</sup>	86/2,200
Operating Weight	kg	16,800 - 18,000
Bucket Digging Force	kN	105.4
Arm Crowding Force	kN	64.0
Overall Length	mm	8,550
Overall Width	mm	2,590
Overall Height	mm	3,020



### SKEBOSR L

### **Exceptional** Performance

#### KOBELCO engines comply with Stage V Final emissions regulations

Hino engines are renowned for fuel efficiency and environmental performance, and KOBELCO has tuned them specifically for construction machinery.

The high-pressure common rail fuel injection system, the variable-geometry (VG) turbocharger, and the exhaust gas recirculation (EGR) system reduce particulate matter (PM) while the large EGR cooler greatly reduces the formation of Nitrogen Oxide (NOx) gases.



Model : HINO J08 EYD

Engine output 200 kW / 2,100 min<sup>-1</sup> (ISO 14396: without fan)

#### Short radius design occupies only one lane of highway



In addition to excellent lifting and digging performance, the SK380SRLC has adopted the attachment mode for a variety of tasks such as breaking and operates effectively even in narrow spaces as a single highway lane. Moreover, the cab permits operators to concentrate on work in a wide and comfortable space.

#### **Independent Travel**



Automatic Independent Travel dedicates one hydraulic pump to travel and one to the attachment on a continuous basis, allowing for a smooth and constant movement speed even while swinging or using the boom or attachment. With Independent Travel, safely carrying a large pipe across a job site is a breeze.

#### **Heavy Lift**



High hydraulic pressure (Heavy Lift) means greater lifting power, at close radius, allowing for smooth and steady operation while moving heavy objects.



## SK380SR L

Model	SK380SRLC
Bucket Capacity m <sup>3</sup>	1.2
Engine Power (ISO 14396) kW/min <sup>-1</sup>	200/2,100
Operating Weight kg	36,600 - 38,200
Bucket Digging Force (Power Boost) kN	189 (208)
Arm Crowding Force (Power Boost) kN	126 (139)
Overall Length mm	9,980
Overall Width mm	3,190
Overall Height mm	3,300





Model	SK230SRLC	SK270SRLC SK270SRNLC
Bucket Capacity m <sup>3</sup>	0.51 - 0.93	0.51 - 0.93
Engine Power (ISO 14396) kW/min <sup>-1</sup>	124/2,000	124/2,000
Operating Weight kg	23,800 - 27,400	25,400 - 28,700/25,100 - 29,100*
Bucket Digging Force (Power Boost) kN	120 (132)	143 (157)
Arm Crowding Force (Power Boost) kN	88 (96.8)	102 (112)
Overall Length mm	8,830	8,970
Overall Width mm	2,990	3,190/2,990*
Overall Height mm	3,160	3,180

## **SPECIAL ATTACHMENT**

### Long Reach Attachment

Long reach attachment is ideally suited to dredging, leveling, and other long reach operations.



Model		SK210LC	SK210HLC	SK260LC
Bucket Capacity	m <sup>3</sup>	0.45	0.45	0.4
Engine Power (ISO 14396)	kW/min <sup>-1</sup>	124/2,000	124/2,000	138/2,100
Max. Digging Reach	mm	15,820	15,820	18,530
Operating Weight	kg	23,400	23,300	27,800
Overall Length	mm	12,690	12,690	14,520
Overall Width	mm	2,990	2,990	3,190

### **Two-Piece Boom**

The two-piece boom provides a wide working range on a mid-size machine that can work in compact spaces.



Model		SK85MSR	SK140SRLC	SK180LC/ SK180N	SK210LC/SK210HLC/ SK210NLC/SK210SNLC/ SK210HNLC/SK240SN	SK230SRLC
Max. Digging Reach	mm	8,010	8,800	8,840	10,070	9,985
Max. Digging Height	mm	8,610	9,540	10,050	11,230	11,330
Max. Digging Depth	mm	4,570	5,710	5,600	6,420	6,625
Model		SK270SRLC/ SK270SRNLC	SK260LC/ SK260NLC	SK300LC/ SK300NLC	SK350LC/ SK350NLC	SK380SRLC
Model Max. Digging Reach	mm					SK380SRLC 10,930
	mm mm	SK270SRNLC	SK260NLC	SK300NLC	SK350NLC	

### **Offset Boom**

In its offset boom configuration, the SK75SR/140SRLC couples its tiny rear swing radius with an offset boom function that allows it to operate with even greater efficiently in extremely limited work areas.





Model		SK75SR			SK140SRLC		
Operating weight	g	8,510 - 9,310			16,300 - 18,000		
Offset Volume (L/R) m	n	1,030/1,340			1,170 / 1,180		
Offset	Max. Left	Max. Left Center Max. Right			Center	Max. Right	
Max. Digging Reach m	n 6,390	6,750	6,050	7,180	7,600	7,160	
Max. Digging Height m	n 7,400	7,400 7,720 7,110			8,090	7,740	
Max. Digging Depth m	n 4,240	4,600	3,900	4,520	4,920	4,500	

## **RECYCLING MACHINE**

### **Car-Dismantling Machines**

The specialized machine for dismantling end-of-life cars can efficiently take apart complex engine blocks, remove hard components and harnesses, and cut up, pick out and sort parts.



Base Machine		SK210D CD
Nibbler Type		KV800PR
Crusher Force (tooth - jaw tip)	kN	372
Cutting Force (center)	kN	882
Crusher Mouth Width	mm	800
Working Height of Clamp Arm	mm	1,770
Operating Weight	kg	27,500

### **Multi-Dismantling Machines**

Fitted with a grapple with a wide jaw to secure hold of differently-shaped items. This one machine can be used to break up and separate auto engines, household appliances, industrial machinery and similar equipment.





Base Machine		SK140SRD MD	SK210D MD
Nibbler Type		KHE750PR-2	KVE720PR
Crusher Force (tooth - jaw tip)	kN	88.3	196
Cutting Force (center)	kN	255	539
Crusher Mouth Width	mm	745	720
Working Height of Clamp Arm	mm	1,780	1,990
Operating Weight	kg	20,500	30,300

## **DEMOLITION MACHINES**

### The Legacy of Kobelco:

- 1st place in Ultra High Reach Demolition Excavators in Japan, the world's toughest demolition market.
- Kobelco innovative building demolition excavator technology is a result of experience using Kobelco's core technology and it's prior P&H and Yutani experience.
- 1955 tie up with P&H who had developed crane and attachment technology.
- 1977 introducing the World's first building demolition machines using excavator technology and static hydraulic fracturing nibbler.
- Kobelco continues to move boundaries by continuously improving its technologies and incorporating customer feedback.

#### Ultra Long Attachment Specifications



SK1300DLC			
4-piece Ultra long atta	chment specifications	3-piece Ultra long atta	chment specifications
40m type	35m type	35m type	31m type
39,570	35,170	35,080	30,700
18,900	16,400	21,400	18,800
136,900	132,900	130,500	126,600
4,300	5,200	5,050	6,100
	40m type 39,570 18,900 136,900	4-piece Ultra long attachment specifications           40m type         35m type           39,570         35,170           18,900         16,400           136,900         132,900	4-piece Ultra long attachment specifications         3-piece Ultra long atta           40m type         35m type         35m type           39,570         35,170         35,080           18,900         16,400         21,400           136,900         132,900         130,500

### **Ultra High Reach Demolition Excavator**

Featuring the newly developed NEXT ADVANCE 4-piece high reach demolition attachment, the SK1300DLC provides a wide variety of boom and arm combination options, for whatever the job requires.

The SK1300DLC is also designed for ease of transportability, featuring increased safety and minimised work preparation time.

### Separate Boom Specifications



Base Machine	SK1300DLC				
American	Separate boom specifications				
Attachment	With insert	For demolition of heights	For demolition of ground		
Max. Working Height (arm top) mm	23,560	21,020	21,020		
Max. Working Depth (arm top) mm		7,980	7,980		
Max.Permissible Working Reach (arm top) mm	15,100	15,100	14,200		
Operating Weight (with top attachment) kg	131,400	126,600	129,000		
Max. Tool Weight kg	9,600	9,600	12,000		

## **DEMOLITION MACHINES**

### **Ultra High Reach Demolition Excavator**

With efficient working and safer operation, and a design that allows easy disassembly and transport, these attachments speed up all aspects of demolition work, for improved productivity and efficiency.

#### Ultra Long Attachment Specifications



Base Machine	SK350DLC	SK400DLC		SK550DLC	
Attachment	6.1m arm	6.1m arm	8.7m arm	6.1m arm	8.7m arm
Attachment	3.5m insert	3.5m insert	2.4m insert	3.5m insert	3.5m insert
Max. Working Height (arm top) mm	20,990	21,110	24,740	24,990	27,530
Max. Permissible Working Reach (arm top) mm	12,500	12,500	13,000	15,500	15,500
Operating Weight (with top attachment) kg	45,000	49,600	50,100	63,500	64,000
Max. Tool Weight kg	2,600	3,000	2,600	3,000	2,600



Base Machine	SK350DLC	SK400DLC	SK550DLC
Attachment	Large diameter Jib cylinder	Large diameter Jib cylinder	Large diameter Jib cylinder
Max. Working Height (arm top) mm	13,560	13,680	14,620
Max. Working Depth (arm top) mm	6,320	6,210	6,260
Max. Permissible Working Reach (arm top) mm	10,200	10,200	11,200
Operating Weight (with top attachment) kg	45,400	49,700	65,500
Max. Tool Weight kg	4,000	4,000	5,300



### **Power Meets Efficiency**

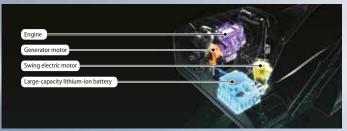
In 2006, KOBELCO developed the world's first hybrid machine full hydraulic excavator in the history of hydraulic excavators.

The SK210HLC-10, the latest model, is equipped with not only the hybrid technology developed and nurtured by KOBELCO but also a large-capacity lithium-ion battery for the first time in the industry. The technology of KOBELCO which knows hybrid machines well has enabled a compact but high-power assist, evolving its hybrid machines into "genuine hybrid machines" in terms of fuel efficiency and productivity. To the new stage. The hybrid machines of KOBELCO greatly exceed the hybrid standards that KOBELCO has established.



#### New Hybrid System

KOBELCO's original hybrid system has further evolved. The newly adopted swing electric motor provides operability unique to a hybrid machine. Furthermore, the large generator motor driven by the large-capacity lithium-ion battery constantly assists the engine, greatly reducing the engine load. The new hybrid system effectively supports fuel efficiency and power for swinging, digging, and traveling, thus realizing a workload which far exceeds that of conventional machines.



Model	SK210HLC
Bucket Capacity m <sup>3</sup>	0.8
Engine Power (ISO 14396) kW/min <sup>-1</sup>	124/2,000
Operating Weight kg	22,100
Bucket Digging Force (Power Boost) kN	143 (157)
Arm Crowding Force (Power Boost) kN	102 (112)
Overall Length mm	9,600
Overall Width mm	2,990
Overall Height mm	3,060



KOMEXS is a web-based programme that enables you to monitor your Kobelco machine remotely.



#### **Direct Access to Operational Status**

#### Location Data

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

#### **Operating Hours**

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

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

#### **Fuel Consumption Data**

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

#### **Graph of Work Content**

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

#### Graph of Machine Duty Cycles

#### Security System

#### **Engine Start Alarm**

The system can be set an alarm if the machine is operated outside designated hours.

#### Area Alarm

It can also be set so that an alarm if the machine is moved out of its designated area to another location.

#### 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.

## **SR SERIES MINI**

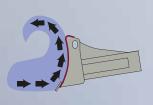
### **Compact Yet Tough Mini**

Mini excavators are the machines of choice for small jobs where space is limited. In addition to minimized tail swing radius, their excellent toughness and maneuverability have greatly broadened their usefulness. Now with upgraded hydraulic technology, KOBELCO has packed even more digging power into the SR series minis, for unprecedented performance in all types of operation. Innovation never stops: the new dozer blade shape makes dozing much more efficient. But that's not all. Our engineers have kept the environment in mind, too, ensuring that SR machines clear all the latest emissions standards. KOBELCO minis deliver more performance packed into less space than ever before.

#### New Dozer-Blade Shape

KOBELCO's unique blade design solves this problem by forming the earth into an arc that always falls forward. Because this prevents earth from falling behind the blade, only "one pass" is needed. (Patent pending)





#### iNDr Cooling System: SK28SR, SK30SR, SK35SR, SK50SRX, SK58SRX

The highly airtight engine compartment and the offset duct contribute to noise reduction. The iNDr filter fitted in front of the cooling system ensures easy cleaning. The iNDr system on the SR Series mini excavators features air intake at the front of the machine and air exhaust underneath. It functions in the same way as the iNDr System on the SR series machines.





2,530 2,510 2,510 2,510 2,560 \*\*1 Engine power for SK25SR: value of ISO 9249 \*\*

2,190

mm

**Overall Height** 

2.560

## **CONVENTIONAL SERIES MINI**

### Full-sized Job With A Compact Machine

Mini Excavators are being used more frequently in confined spaces such as residential areas and buildings. But smallness alone isn't enough to satisfy users, who are also demanding greater stability and tip-top operating performance.

The KOBELCO SK Series mini excavators answer this need with a high-output engine that provides plenty of power for tough, efficient operations. These machines also deliver excellent stability, and make the operator's life a whole lot easier with a well-designed, comfortable cab. In short, the SK Series mini excavators are ideal machines for those who want powerful, basic functions and durable reliability.

When you need to do a full-sized job with a compact machine, SK Series mini excavators are your answer.

#### **Comfortable Cab**

The plenty legroom allows the operator to work comfortably for long hours.

The control lever, wrist rests, travel lever and control panel are all positioned for maximum ease of use and operator comfort.



Photo: SK19



Model		SK08	SK19	SK22	SK26
Bucket Capacity	m <sup>3</sup>	0.022	0.03	0.05	0.06
Engine Power (ISO 14396)	kW/min <sup>-1</sup>	7.7/2,400*1	13.5/2,000	13.8/2,200	18.1/2,400
Machine Mass	Cab kg	-	1,970	2,185	2,600
Machine Mass	Canopy kg	1,035	1,880	2,045	2,460
Bucket Digging Force	kN	10.0	16.7	18.6	24.5
Arm Crowding Force	kN	5.9	11.4	11.8	14.5
Overall Length	mm	2,625	3,865	4,090	4,470
Overall Width	mm	680/840	980/1,320	1,380	1,500
Overall Height	mm	2,200	2,325	2,360	2,435

2,325 2,500 \*1 Engine power for SK08: value of ISO 9249 \* Cab specs. 32

## MEMO



Note: This catalogue may contain attachments and optional equipment that are not available in your area. And it may contain photographs of machines with specifications that differ from those of machines sold in your areas. Please consult your nearest KOBELCO distributor for those items you require. Due to our policy of continuous product improvements all designs and specifications are subject to change without advance notice.

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