**KOBELCO** 

SK28SR SK30SR SK35SR





Complies with the EU Stage V exhaust emission regulation

We Save You Fuel

## Full-Size Performance, Short-Radius Agility and Quiet Operation

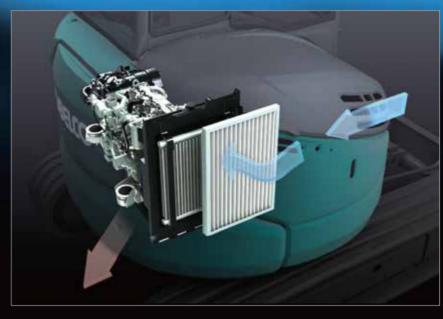
## **COMPACT YET TOUGH MINI**

The new KOBELCO SK28SR, SK30SR and SK35SR expand the horizons of mini excavators, and offer practical performance features while maintaining a short tail swing. The new Energy Conservation Mode saves even more fuel, and Kobelco's proprietary iNDr Cooling System ensures quiet operation, protection from dust, and easy maintenance. For greater operator comfort and safety, the spacious cab design offers plenty of room and an unobstructed view. It all adds up to enhanced full-size performance, short-radius agility and a low-noise environment, with exceptional

KOBELCO



Integrated
Noise & Dust
Reduction
Cooling System



performance features and a full range of value-added functions.



## **iNDr Cooling System**

### The Revolutionary Integrated Noise and Dust Reduction Cooling System



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 Heavy machines.

#### **Ultimate Low Noise**

KOBELCO's exclusive iNDr Cooling System delivers amazingly quiet operation.

#### **Sound Power Level**



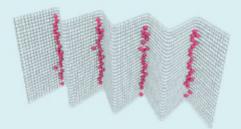
#### **Visual Checking and Easy Cleaning**

Because the iNDr filter removes dust from the intake air, cooling components stay dirt-free and do not require regular cleaning. The iNDr filter itself can be easily removed and cleaned without the use of tools.



#### iNDr Filter

The stainless-steel filter is extremely effective against dust, with 30-mesh wave-type screen that removes tiny dust particles from the intake air.



• 30-mesh means that there are 30 holes formed by horizontal and vertical wires in every square inch of filter.

#### iNDr Filter Blocks Out Dust

Outside air goes directly from the intake duct through the iNDr filter for dust removal.



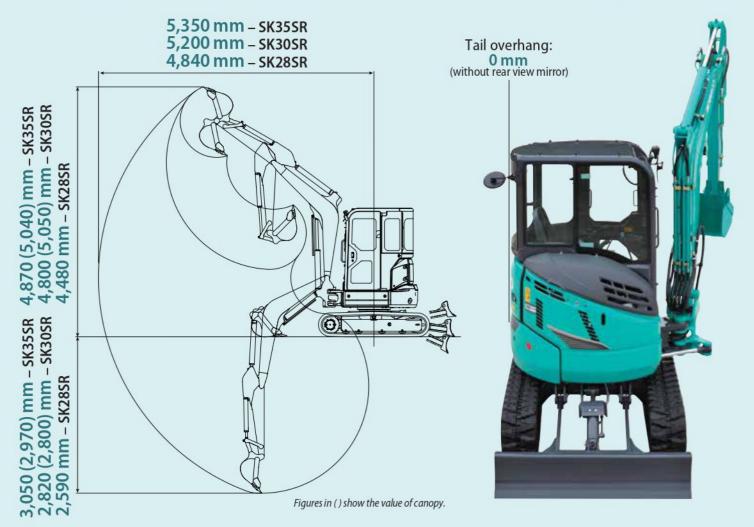
## Compact, yet, Big Performance

#### **Wide Working Range**

A larger boom and arm are provided as standard equipment to ensure a wider working range.

#### **Short Tail Swing**

The compact tail swing improves operating efficiency in limited space.



#### **Easy Transportability**

With an overall height of 2,510 mm, the machine is designed for easy transport.



# Overall height: 2,510 mm

#### Easy Hydraulic Piping for Quick Hitch (Option)

Piping for quick Hitch is useful for changing attachment.



## **Fuel Economy and Digging Power**

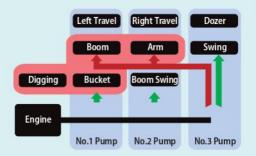
#### **Solid Digging Performance**

#### Assured Pump Flow and Pump Pressure

Pump flow of 38.4 L/min for SK30SR and SK35SR and 28.8 L/min for SK28SR, and pressure of 23.0 MPa (relief valve setting), maintain ample power.

#### Integrated-Flow Pump System

The instant the machine begins to dig extra output from the third pump (which otherwise powers the swing and dozer circuit) is directed to the arm circuit and boom circuit (raise) for added power. This ensures fast and smooth arm and boom raising operation even under heavy loads.



#### **Energy Conservation Mode**

The machine is equipped with S mode, which lowers fuel consumption by up to 25 % over previous models.



#### One Touch Deceleration

The machine features one-touch deceleration. It allows easy switching to an idling state, reducing the fuel consumption while the machine is at rest. And also, the deceleration select switch is provided on the control panel.





Deceleration switch

Deceleration select switch

#### **Travel Power**

#### Large Capacity Travel Torque

The large capacity travel torque enables the machine to perform spin turn in low mode even when the dozer is pushing a heavy load.

#### **Automatic Two-Speed Travel**

An automatic shift function ensures smoother, more efficient travel on worksite. When the High mode is selected, the travel system will automatically shift to Low mode whenever the load or climbing grades requires more power.

#### Travel Switch

The travel lever is fitted with a button for easy shift up.



## Powerful and Efficient Dozer Performance

#### **Dozer-Blade Shape**

Kobelco's unique blade design forms the earth into an arc, that always falls in front of the blade. This prevents earth falling behind the blade so only "one pass" is needed.





## Hydraulic Pilot-Controlled Dozer Operation Lever



The dozer lever features hydraulic pilot control for precise handling.

## **Easy Daily Maintenance**

Start-up checks are essential for safe and reliable machine operation. All start-up checks can be performed at ground level, with an easy-to-understand layout and cover design that simplify access and save time.

#### Easy Access to Component Inside the Cab









Two-piece floor mats for easy washing

Hour meter

Floor Mat with Raised Edges

Floor mat's raised edges help keep the cab floor free of mud, simplifying cleaning.





#### **Easy Access to Engine Compartment**





fuel filter

Pre fuel filter with

built-in water separator

Air cleaner

Easy Access to Cooling Unit



## **Comfortable Work Environment**

#### **Spacious Work Environment**

The spacious cab provides optimized control layout for comfortable, easy operation. A greater window area further improves visibility. A clear view is provided at the rear, and theres also more floor space, with a seat that slides further to ensure plenty of leg room.

#### **Easy Access**

A wide-opening door and a left-hand tilting control console with safety lever that rises high, make it easy for operators to enter and exit the cab.



#### **Sliding Door**

Sliding door makes cab entry and exit easier where space is tight.



#### **Reclining Suspension Seat**

Suspension seat reclines to allow operator to optimize operating position and sit comfortably.



#### Skylight





#### **Control Lever**

Precise proportional controls are integrated into the joystick for ease of operation.

#### Color Multi Display (Option)



Operation data as well as the full range of machine-status data can readily be checked.





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## **Comfortable Operating Environment**

#### **Opening Right Window**

Rear window to the right can be opened to improve



The climate control system is located down and to the right of the seat keeping the rear view





#### Opening/Closing Front Window

The front window features gas damper cylinders for smooth and easy opening and closing.



Coat Hook



**Room Light** 



Two-Speaker FM/AM Radio with Station Select

Bluetooth Installed Radio Bluetooth installed to



other devices. **USB Port** 







allow connections with iPhones and



## **Operator Safety**

#### Reliable Cab/Canopy Structure

The high-strength cab/canopy meets ROPS and TOP GUARD LEVEL 1 standards for greater operator safety.





#### **Rear View Mirrors**



## **Rotating Light**

Bracket for Yellow

Bracket provided at cab rear for optional fitting of a yellow rotating warning light.



Hammer for **Emergency Exit** 



Work Light

Work light is mounted under the boom to protect from



## **Reliable Construction**

The boom, arm and swing bracket all have large cross-section segments for added attachment strength.



Swing bracket Large, thick cast-iron swing bracket/front bracket.



Dozer Box construction dozer supports provide greater strength.



Bucket Cast-iron idler link provide greater strength.

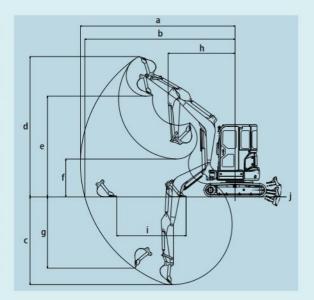
### **SPECIFICATIONS**

MODEL			SK28SR	SK30SR	SK35SR					
Туре			SK28SR-6E	SK30SR-6E	SK35SR-6E					
Machine Mass	Cab	kg	2,950	3,380	3,770					
	Canopy	kg	2,800	3,220	3,630					
Bucket Capacity		m³	0.08	0.09	0.11					
Bucket Width (with side	cutter)	mm	500	500	600					
Arm Length		mm	1.18	1.32	1.37					
Bucket Digging Force		kN	24.7	27.7	27.8					
Arm Crowding Force		kN	16.6	19.1	22.4					
ENGINE										
Model				YANMAR 3TNV82A-B						
Туре			Water cooled, 4-cycl	e, 3-cylinder, direct inj	ection, diesel engine					
Power Output	(ISO 9249)	kW/min <sup>-1</sup>		17.1/2,400						
Tower output	(ISO 14396)	kW/min <sup>-1</sup>		17.8/2,400						
Max.Torque	(ISO 9249)	N·m/min <sup>-1</sup>		77.7/1,440						
	(ISO 14396)	N·m/min⁻¹		79.4/1,440						
Displacement		L		1.331						
Fuel Tank	42.0									
HYDRAULIC SYSTEM										
Pump				isplacement pumps -						
Max. Discharge Flow		L/min	2 x 28.8, 1 x 16.1	2 x 38.4, 1	x 19.2					
Relief Valve Setting		MPa		23.0						
Hydraulic Oil Tank (syste	m)	L	20.4 (41.1)	20.4 (	44.8)					
TRAVEL SYSTEM			** **							
Travel Motors				ial-piston, two-step n						
Parking Brake				il disc brake per moto						
Travel Speed (high/low)		km/h	3.8/2.1	4.4/	2.5					
Gradeability		% (degree)		58 (30)	500 Market					
Drawbar Pulling Force	Cab	kN	34.8	38.3	38.1					
	Canopy	kN	34.9	38.4	38.2					
CRAWLER										
Shoe				Rubber						
Shoe Width		mm		300						
Ground Pressure	Cab	kPa	26.3	30.1	33.5					
	Canopy	kPa	24.9	28.7	32.2					
DOZER BLADE										
Width x Height		mm	1,550 x 345	1,550 x 345	1,700 x 345					
SWING SYSTEM										
Swing Motor				Axial piston motor						
Parking Brake			Oil disc brake	, hydraulic operated	automatically					
Swing Speed		min <sup>-1</sup>		8.4						

#### **WORKING RANGES**

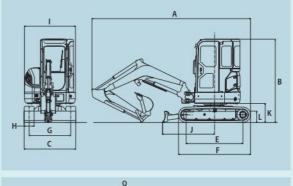
Unit: mm

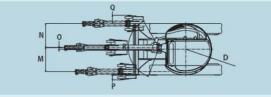
MODEL	SK28SR	SK3	OSR	SK35SR		
		Cab	Canopy	Cab	Canopy	
Arm length	1.18 m	1.3	2 m	1.37 m		
a- Max. digging reach	4,840	5,20	00	5,	350	
b- Max. digging reach at ground level	4,680	5,04	40	5,	200	
c- Max. digging depth	2,590	2,820	2,800	3,050	2,970	
d- Max. digging height	4,480	4,800	5,050	4,870	5,040	
e- Max. dumping clearance	3,090	3,420	3,640	3,490	3,650	
f- Min. dumping clearance	1,290	1,300	1,300 1,430		1,400	
g- Max. vertical wall digging depth	2,270	2,3	70	2,	470	
h- Min. swing radius at boom swing	2,190 1,900	2,300 1,910	2,190 1,890	2,320 1,930	2,150 1,880	
i- Horizontal digging stroke at ground level	1,910	2,2	230	2,	100	
j- Dozer blade (height/depth)	450/370	470/	400	470	/400	



#### **GENERAL DIMENSIONS**

Unit: mm





MODEL	SK28SR	SK30SR	SK35SR
A Overall length	4,510	4,730	4,820
B Overall height	2,510	2,510	2,510
C Overall width	1,550	1,550	1,700
D Tail swing radius	775	775	850
E Tumbler distance	1,700	1,700	1,700
F Overall length of crawler	2,160	2,160	2,160
G Track gauge	1,250	1,250	1,400
H Shoewidth	300	300	300
I Overall width of upperstructure	1,530	1,530	1,530
J Distance from dozer top to center of upperstructure	1,500	1,560	1,560
K Ground clearance of rear end	570	570	570
L Ground clearance	300	300	300

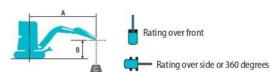
MODEL	SK28SR	SK30SR	SK35SR
M Offset volume (Left)	680	720	720
N Offset volume (Right)	675	725	725
O Offset volume between center of boom and center of machine	50	50	50
P Digging volume at outside of shoe (Left)	100	150	120
Q Digging volume at outside of shoe (Right)	200	250	225
R Boom swing angle (Left/Right)	60°/55°	70°/60°	70°/60°

## **OPTIONAL EQUIPMENT**

N&B (foot) piping	<ul> <li>Bolt-on Pad shoes (for steel shoe)</li> </ul>	<ul> <li>Rear under mirror</li> </ul>
• Rotation (PHC*) + N&B (foot) piping	<ul> <li>Add-on counterweight (250 kg) + 90 mm tail swing radius</li> </ul>	<ul> <li>Arm &amp; bucket cylinder cover</li> </ul>
• Rotation (PHC*) + N&B (PHC*) piping	<ul> <li>Object Handling Kit (Boom &amp; arm holding valve + hook)</li> </ul>	<ul> <li>Front guard</li> </ul>
Color Multi display	<ul> <li>Additional work light for canopy</li> </ul>	• Top guard
•Long arm (+300 mm)	• Travel alarm	<ul> <li>Quick Hitch piping</li> </ul>
• Steel shoe	• Rear view mirror	

<sup>\*</sup>Proportional Hand Controlled

#### LIFTING CAPACITIES



A: Reach from swing centerline to arm top B: Arm top height above/below ground C: Lifting capacities in kilograms Bucket: Without bucket Dozer blade: up Relief valve setting: 23.0 MPa

SK28SR C	ab	Standa	ard Arm	Bucket	: withou	t Stan	dard wei	ght S	hoe: 300	e: 300 mm					
		1.0	0 m	2.0	2.0 m		3.0 m		0 m	At Max	. Reach				
В		4	-	4	-	4	<del>-</del>	1	-	1	-	Radius			
3.0 m	kg					*620	520			500	390	3.51 m			
2.0 m	kg			*1,140	970	640	500	390	310	390	310	4.00 m			
1.0 m	kg	l.				590	460	380	300	360	280	4.12 m			
G. L.	kg			1,110	810	570	440			380	300	3.92 m			
-1.0 m	kg	*2,070	*2,070	1,130	830	570	440			490	380	3.32 m			

		1.0	1.0 m		2.0 m		3.0 m		4.0 m		. Reach		
		4	-	4	<del>-</del>	1	-	4	-	4	-	Radius	
3.0 m	kg					*620	490			460	370	3.51 m	
2.0 m	kg			*1,140	920	590	470	360	290	360	290	4.00 m	
1.0 m	kg					550	430	350	280	330	260	4.12 m	
G. L.	kg			1,030	760	530	410			350	280	3.92 m	
-1.0 m	kg	*2,070	*2,070	1,050	780	530	410			460	360	3.32 m	

SK28SR C	ab	Long A	Arm Bu	cket: wit	without Standard weight Shoe: 300 mm							
		1.0	0 m	2.0	m	3.0	) m	4.	0 m	At Max	c. Reach	
		1	-	1	-	- 4	<del>-</del>	1	-	1	-	Radius
3.0 m	kg									420	330	3.85 m
2.0 m	kg					640	500	390	300	340	270	4.29 m
1.0 m	kg					590	450	370	290	320	240	4.40 m
G.L.	kg			1,060	770	550	420	360	270	330	250	4.22 m
-1.0 m	kg	*1,650	*1,650	1,070	770	540	410	-	1	400	310	3.68 m
-2.0 m	kg			1,130	830				1	780	590	2.47 m

SK28SR C	anopy	Long Arm Bucket: without Standard weight S							300 mn			
		1.0 m		2.0 m		3.0 m		4.0 m		At Max. Reach		
		4	<del></del>	4	-	1	<del>-</del>	1	-	1	-	Radius
3.0 m	kg									400	310	3.85 m
2.0 m	kg					600	470	360	280	320	250	4.29 m
1.0 m	kg					540	420	340	270	290	230	4.40 m
G. L.	kg			980	710	510	390	330	250	300	230	4.22 m
-1.0 m	kg	*1,650	*1,650	990	720	500	380			370	290	3.68 m
-2.0 m	kg			1,050	770					730	550	2.47 m

SK30SR C	āb	Stand	ard Arm	Bucke	t: withou	t Stan	dard we	ight S	hoe: 300	mm		7
		1.	0 m	2.0	0 m	3.0	m	4.	0 m	At Max. Reach		
		4	-	4	-	4	-	1	-	. 4	-	Radius
4.0 m	kg					800	640			760	610	3.08 m
3.0 m	kg									500	390	3.97 m
2.0 m	kg					770	600	480	380	410	330	4.38 m
1.0 m	kg					710	550	460	360	390	300	4.48 m
G.L.	kg			1,300	950	680	520	450	350	410	320	4.29 m
-1.0 m	kg	*2,050	*2,050	1,320	960	680	520			490	380	3.77 m
-2.0 m	kg			*970	*970			-		*650	*650	2.60 m

SK30SR C	anopy	Stand	ard Arm	Bucket	t: without	Stan	dard wei	ight S	hoe: 300	mm	1000	77
		1.	0 m	2.0	m	3.0	) m	4.	0 m	At Max	. Reach	
B 4.0 m	ka	1	-	4	<del></del>	1	-	1	-	1	-	Radius
4.0 m	kg					760	610			730	580	3.08 m
3.0 m	kg									470	370	3.97 m
2.0 m	kg					730	570	460	360	390	310	4.38 m
1.0 m	kg					670	520	430	340	360	290	4.48 m
G. L.	kg			1,230	890	640	490	420	330	380	300	4.29 m
-1.0 m	kg	*2,050	*2,050	1,250	910	640	490			460	360	3.77 m
-2.0 m	kg			*970	970					*650	*650	2.60 m

SK30SR C	ab	Long	Arm Bu	cket: wi	thout S	Standard	weight	Shoe:	Shoe: 300 mm				
		1.	0 m	2.0 m		3.0 m		4.0 m		At Max	. Reach		
В		4	<u> </u>	1	-	4	<del>-</del>	1	-	1	-	Radius	
4.0 m	kg					_				610	490	3.52 m	
3.0 m	kg							500	400	430	340	4.30 m	
2.0 m	kg					780	610	480	380	370	290	4.68 m	
1.0 m	kg					710	550	460	360	350	270	4.77 m	
G.L.	kg	1		1,280	930	670	510	440	340	360	280	4.60 m	
-1.0 m	kg	*1,660	*1,660	1,290	940	660	500	440	340	420	330	4.12 m	
-2.0 m	ka			1 340	980	690	530			640	500	3.14 m	

SK30SR Canopy		Long	Arm B	ucket: w	thout	Standar	d weight	Shoe	-			
В		1.	0 m	2.0 m		3.0 m		4.0 m		At Max. Reach		
		4	-	4	-	4	-	4	-	4	-	Radius
4.0 m	kg									580	460	3.52 m
3.0 m	kg							470	380	410	320	4.30 m
2.0 m	kg					740	580	460	360	350	270	4.68 m
1.0 m	kg					670	520	430	340	330	250	4.77 m
G. L.	kg			1,210	880	630	480	410	320	340	260	4.60 m
-1.0 m	kg	*1,660	*1,660	1,220	890	620	470	410	320	400	310	4.12 m
-2.0 m	kg			1,270	930	650	500			610	470	3.14 m

SK35SRC	ab	Stand	Standard Arm, Bucket: without Standard weight Shoe: 300 mm											
		1.5	0 m	2.0	) m	3.0	m	4.	0 m	At Max	. Reach			
		1	-	4	-	4	-	1	-	4	-	Radius		
4.0 m	kg									*730	*730	3.32 m		
3.0 m	kg							610	570	570	530	4.15 m		
2.0 m	kg					900	860	590	550	480	450	4.54 m		
1.0 m	kg					860	790	570	530	460	430	4.63 m		
G.L.	kg			1,590	1,420	830	760	550	510	480	440	4.45 m		
-1.0 m	kg	*2,290	*2,290	1,610	1,440	830	760			560	520	3.95 m		
-2.0 m	kg			*1,330	*1,330		3			*770	*770	2.90 m		

В		1.0 m		2.0 m		3.0 m		4.0 m		At Max. Reach		
		4	-	4	-	1	-	1	-	1	-	Radius
4.0 m	kg							_		*730	*730	3.32 m
3.0 m	kg				-			580	540	540	510	4.15 m
2.0 m	kg					890	820	560	530	460	430	4.54 m
1.0 m	kg					820	760	540	510	430	410	4.63 m
G. L.	kg	-	-	1,510	1,360	790	730	520	490	450	420	4.45 m
-1.0 m	kg	*2,290	*2,290	1,530	1,370	790	730			540	500	3.95 m
-2.0 m	kg			*1,330	*1,330	-				*770	*770	2.90 m

SK35SR Canopy Standard Arm Bucket: without Standard weight Shoe: 300 mm

SK35SR Cab		Long i	Arm Bu	ıcket: wi	thout	Standard	d weight	Shoe:	300 mm			
		1.0 m		2.0 m		3.0 m		4.0 m		At Max. Reach		
		4	-	1	-	- 4	-	1	-	4	-	Radius
4.0 m	kg								1	*640	630	3.74 m
3.0 m	kg							590	570	500	470	4.47 m
2.0 m	kg					*770	*770	590	550	430	410	4.83 m
1.0 m	kg					870	800	570	530	410	390	4.92 m
G.L.	kg			1,570	1,400	820	760	540	510	420	400	4.75 m
-1.0 m	kg	*1,870	*1,870	1,580	1,410	810	750	540	500	490	460	4.29 m
-2.0 m	kg	*3,080	*3,080	1,620	1,450	840	770			700	650	3.39 m

		1.0	0 m	n 2.0 m		3.0 m		4.0 m		At Max. Reach		
		4	-	1	4 <del>4 4</del> 4		1	-	d	Radius		
4.0 m	kg			_		_				630	600	3.74 m
3.0 m	kg							590	550	470	440	4.47 m
2.0 m	kg					*770	*770	570	530	400	380	4.83 m
1.0 m	kg					830	770	540	500	380	360	4.92 m
G. L.	kg			1,490	1,340	780	720	520	480	390	370	4.75 m
-1.0 m	kg	*1,870	*1,870	1,500	1,350	750	710	510	480	450	430	4.29 m
-2.0 m	kg	*3.080	*3.080	1,550	1,390	800	740			650	610	3.39 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 heights. 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.
- 3. Arm top defined as lift point.

- 4. The above lifting capacities are in compliance with ISO 10567. They do not exceed 87% of hydraulic lifting 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. 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.

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 area. 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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