



KOBELCO

SL6000S
SL4500S



Responsibility Builds the Future.

Wherever the future is under construction, from large-scale plant and energy-related projects to infrastructure maintenance, you'll find Kobelco's super large size SL6000S and SL4500S crawler cranes in the thick of the action. Ergonomic for maximum comfort. Eco-engineered to be friendlier to our Earth. Kobelco Cranes embody new values.

SL6000S

Max. Lifting Capacity :

550t

STANDARD
HEAVY LIFT
SUPER HEAVY LIFT

Max. Boom Length: 108m*1 / Max. Luffing Jib Combination: 60+72m
Max. Boom Length: 108m*1 / Max. Luffing Jib Combination: 66+72m
Max. Boom Length: 126m*1 / Max. Luffing Jib Combination: 84+84m

SL4500S

STANDARD CONFIGURATION

Max. Lifting Capacity :

400t

STANDARD
HEAVY LIFT
SUPER HEAVY LIFT

Max. Boom Length: 96m*1 / Max. Luffing Jib Combination: 66+66m(72+54m)
Max. Boom Length: 84m / Max. Luffing Jib Combination: 72+66m(78+54m)
Max. Boom Length: 84m / Max. Luffing Jib Combination: 78+66m(84+54m)

LIGHT CONFIGURATION

Max. Lifting Capacity :

300t*2 / 180t

Luffing Boom	Max. Boom Length: 78m
Long Boom	Max. Boom Length: 96m
Luffing Jib	Max. Luffing Jib Combination: 66m+66m

*1. Long Boom *2. With Standard Boom Configuration (width 3.0m boom)
The following abbreviations are used through this catalogue. STD: Standard HL: Heavy Lift SHL: Super Heavy Lift

●The photo is a composite.



Performance

**Toughness and luxury.
Incredible manoeuvrability makes
work efficiency leap ahead.**

Lightweight, Solid Upper Frame

The upper frame has been newly designed to increase sectional strength and optimise the frame's stress capacity. This enhances rigidity and contributes to the crane's exceptional lifting capacity.

High-strength Lattice Boom, Ready for Hard Work

Large-diameter main pipe strengthens the boom to significantly boost lifting capabilities.

Double Motors for Smooth Travel

The crawler has double motors, one in front and one in the rear, delivering steady, powerful traction for smooth on-site travel.



**Smooth Hoisting Increases
Work Efficiency**

Hoisting speed increases by approximately 30% ensuring faster, more efficient work.

Wide, Large-capacity Winches for Smooth High-rise Work

The wide hoist winches provide an impressive spooling capacity of 1,080m* of 28mm hoist rope. Their large capacity and large diameter prevent uneven spooling and wear while ensuring smooth operation during high-rise work with a long boom combination. *SL6000S figure.



Powerful Line Pull Winch Makes Tough Jobs Easy

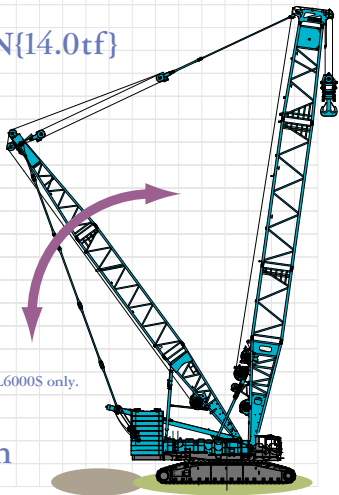
With the efficient combination of a high-output engine and high performance hydraulic motors, the winches deliver plenty of line pull for single-line work. There's also ample capacity to get even the heaviest loads off the ground.

Rated Line Pull (Single Line)	SL6000S, SL4500S Light Configuration	137kN{14.0tf}
	SL4500S	132kN{13.5tf}

Adjustable HL Mast

With the adjustable HL mast, the rear swing radius can be set to one of three options* to suit work site conditions. This guarantees optimised lifting performance even on small sites. *Two options for SL4500S.

HL Spec. Max. Lifting Capacity	Heavy Duty Crane Boom:	370t×8.3m *SL6000S only.
	Luffing Jib: SL6000S	200t×14.4m
	Luffing Jib: SL4500S	113.5t×16.0m





Transport / Assembly / Disassembly

Light and easy.
Innovation upon innovation for superior transportability.

Transportation Plans

Model	SL6000S	SL4500S	SL4500S Light Configuration
Transport Weight	63,530 kg *A 44,310 kg *B	60,085 kg *C 45,000 kg *D	60,085 kg *C 45,000 kg *D
Transportation Width	3,000 mm	2,990 mm	2,990 mm

* A,B,C,D, please refer to page 9.

Kobelco’s Lightweight Upper Frame

A new ultra-solid structure and top-quality high-tensile steel plate enable Kobelco to engineer and build a unique lightweight upper frame. So they’re easier to transport than other conventional cranes in their class, not to mention simpler to assemble and disassemble.

Easy-to-transport Swing Cab

With plenty of room for the operator, the swing cab has a practical design for easy transportation. The cab swings away and stows in front of the base machine, reducing the transport width of the upper machine to just 3m.

New Crawler Frame

The crawler frame has the lower rollers fitted inside to increase sectional strength, and uses high-grade, high-tensile steel plate to minimise weight.



● The photo is a composite.

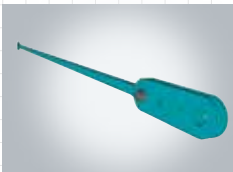
Winches Mounted on Mast and Boom

The boom hoist winch is mounted on the mast, and the hoist winches are mounted on the boom base. This not only reduces the weight of the base machine, but also saves time labour, and money, because the boom and mast can be transported with winches attached.

※SL4500S: The boom hoist winch is mounted on the base machine for crane operation and on the mast for transportation.



Attachment Transport / Disassembly Streamlined in 6 Big Ways



1 Steel bar pendant **NEW**

The steel bar design is adopted to streamline assembly. It reduces rotation and misalignment during transport.
※SL6000S only



2 New counterweights **NEW**

A newly designed counterweight allows basket-rigging on the proper lifting rug provided outside of the counterweight. It helps reduce rigging time and create stable lift handling when assembling and disassembling the counterweight.



3 Wireless remote assembly controller

This standard feature also allows you to start the engine from outside the cab.



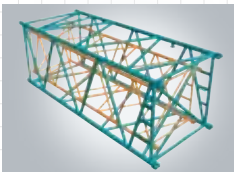
4 New reeving winch system **NEW**

Both the main winch and the reeving winch can be operated from inside the cab. Both winches have speed-adjusting trimmers that ensure simple, accurate control of winding speed.



5 Boom width: 3.0m

Specially designed boom fits in 3.0m width.
※SL4500S Light Configuration: 2.5m width.



6 Nesting boom

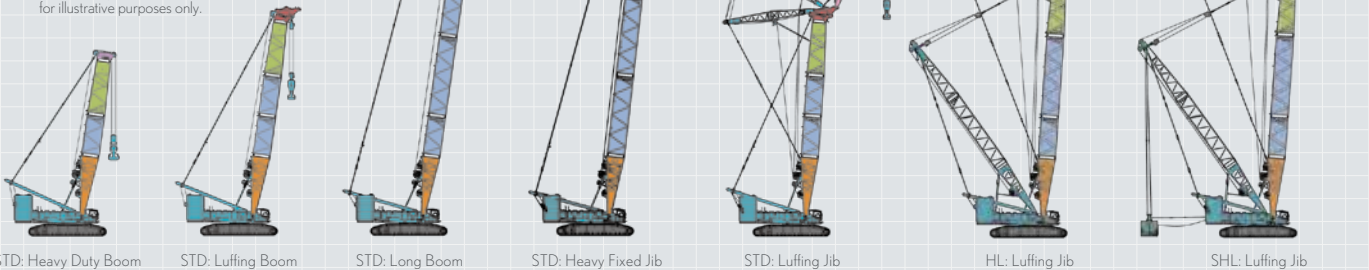
The luffing insert jib can be easily nested in the insert boom by using the optional stowing guide rollers. This reduces the number of trailers needed for transport and minimises storage space requirements.



Versatile Attachment Configurations

- Boom Base
- Insert Boom
- Tapered Boom
- Heavy Duty Boom Top
- Luffing Boom Top
- Luffing Jib Base
- Luffing Insert Jib
- Luffing Jib Top
- Insert Boom (Long)

※ Boom configuration is for illustrative purposes only.



Sharing Booms Reduces Storage and Transportation Costs

The boom base and insert boom can both be used in crane boom, long boom, and luffing jib specifications. What's more, the long insert boom with long specifications, long upper boom, and luffing insert jib with luffing jib specifications, and luffing jib top can also be shared. This reduces costs and labour involved in changing specs, in storage, and in transport. Furthermore, as each insert is of the same diameter and thickness of pipe, they can be assembled in any order, and can also be transported.

SHL Pallet Reduces Ground Pressure

The Super Heavy Lift (SHL) pallet weight is only 1.4kgf/cm², reducing the need for ground preparation work.



Enhanced Safety in Boom Assembly/Disassembly

The assembly/disassembly mode provided in M/L system enables assembly/disassembly without releasing the over-hoist prevention function. When the boom sets above a certain angle, assembly/disassembly is set to safe operation mode automatically.



Self-erection System Option

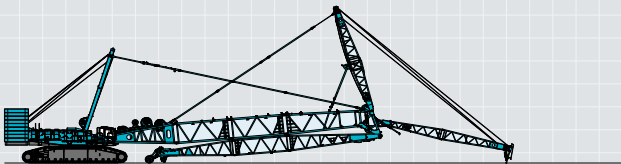
Use the built-in, remote controlled transliifer (jack system) to lift the SL6000S and SL4500S clear of the trailer, then drive the trailer away. The self-assembly cylinder installed on the mast is used to install the crawler side frames and /or the boom.

SL4500S Can Be Used as a Light Configuration Crane, Too

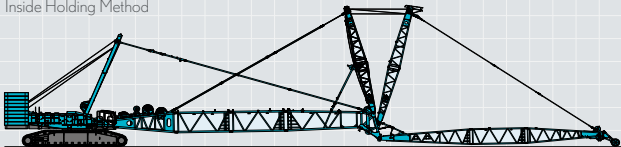
SL4500S can be operated as a light configuration of the 300t class, which is quite often needed on site. The counterweights can be used as a standard 231t or as 151t light configuration, and the booms are 3.00m wide for the standard and 2.50m for the light configuration. This saves both transport cost and assembly time.

Choice of Methods for Assembly/Disassembly of Luffing Jib

Jib assembly is possible using either the extended or inside holding methods. On sites where space is available, the extended method is faster, but the inside holding method, in which the jib is folded under the boom, can be used for assembly/disassembly when site space is limited.



Inside Holding Method



Extended Method

Quick Connection Device Option and Upper Transliifer Option for Assembly to the Base Machine

When assembling or disassembling the upper and lower frames of the crane, the hydraulic quick connection device makes the process fast and accurate. In addition, by choosing the optional upper transliifer for assembling to the machine, the crane can be assembled without an auxiliary crane.



Operation/Function/Equipment

Smooth and comfortable.
Convenience and comfort extend to every corner.



New Cab Design Offers Excellent Operational Efficiency and Superior Interior Comfort.

NEW

- 1

More space inside
The cabin maximises comfort in operation and under way.
- 2

Wide front glass
The wide field of view makes for safer, more efficient operation.
- 3

New M/L monitor
One monitor provides a clear image for checking the angles that are difficult to see with the naked eye, improving operational safety. The angle can be adjusted freely for smooth visual checks and receipt of instructions.
- 4

Short lever
Easily-held grips fit the hand perfectly. SL6000S and SL4500S offer mobility, as well as instantaneous course changes and swing.
- 5

Cab entrance width increased from 565mm to 785mm
This makes entrance and exit much easier.
- 6

More foot room
The added space reduces fatigue and stress.
- 7

Overhead glass offering a clear view
Tough laminated glass overhead eliminates the need for a roof guard, expanding the operator's field of vision.
- 8

Better State-recognition
The operator can confirm the slant of the crane itself as well as the condition of all attachments. ※SL6000S only
- 9

High-quality seat upholstery
The seat offers a feel of comfort and quality. Both the lever stand and seat are adjustable for comfort and ergonomics.
- 10

Fully trimmed interiors
The well-appointed interior enhances pride in workmanship.

Cab Tilt Function Makes High-rise Work Easier

The cab can be tilted back up to 15 degrees, increasing operator comfort doing high-elevation work.



※ Equipped with both wiper and boom.

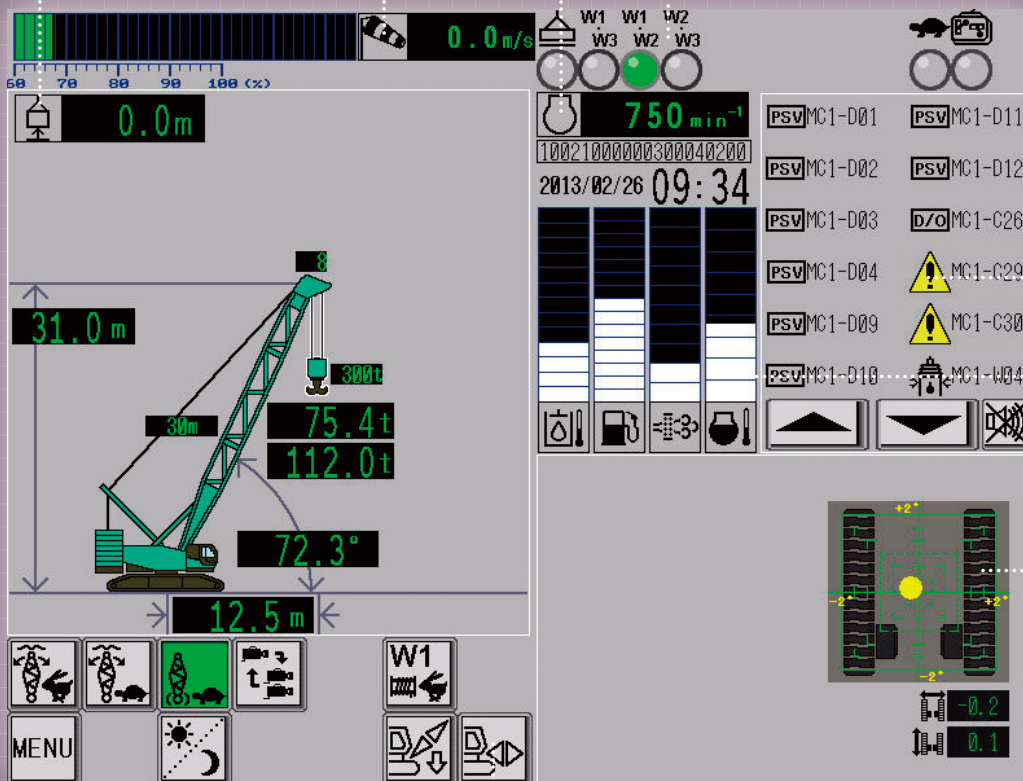


Hook height

Wind speed **Option** Engine speed

Easy-to-see display lamp

- W1/W2/W3 winch selector
- Slow speed state
- Remote control connection



- Error message

Touch to display details in a pop-up window.

- Gauges

- Hydraulic oil temperature
- Fuel remaining
- Sediment accumulated
- Coolant temperature

- Machine inclination sensor

An optional machine inclination sensor offers a visual representation of the current inclination of the crane body.

※ SL6000S only

Universally understood pictograms provide intuitive visual recognition.

■ Switches

- Swing mode (free, high speed)
- Swing mode (free, low speed)
- Swing mode (braked, low speed)
- Camera switches
- Independent storage
- Menu
- Assembly/Disassembly
- DPR manual operation



Ecology / Safety

**Quieter and smoother.
Proactive safety and
ecological considerations.**



● The photo is a composite.

New Base Machine Layout for Easy Maintenance

The new layout on the base machine provides more space to access equipment for easier maintenance.



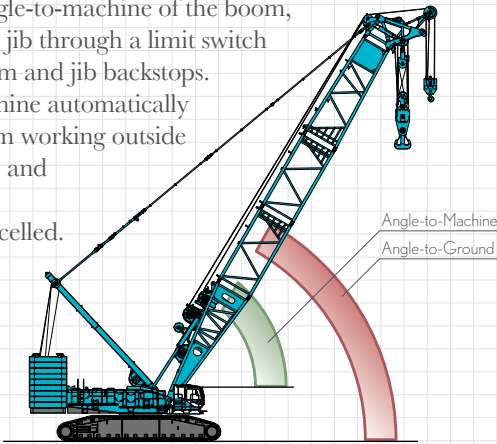
* Transporting an SL4500S.

Dust-resistant Slew Bearing with Inside Teeth

The standard Kobelco inner-cut gear swing bearings resist dust penetration and hold grease better than outer-cut bearings.

Multi-stage System Prevents Boom Slew

With primary and secondary over-hoist prevention devices, this new safety system can prevent boom over-hoist at two stages. The primary stop function is activated when the boom or luffing boom approaches the critical angle-to-ground position during hoisting. This new system monitors the boom, luffing boom or jib angle-to-ground with a sensor, and immediately alerts the operator of any danger. Luffing boom angle-to-machine is also monitored. The secondary stop function uses a device that monitors the angle-to-machine of the boom, luffing boom, or jib through a limit switch fitted to the boom and jib backstops. It stops the machine automatically to prevent it from working outside the safety range, and once activated it cannot be cancelled.





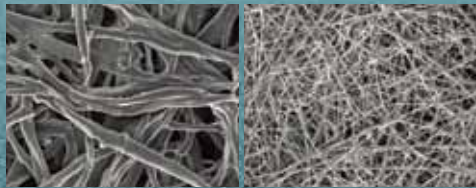
Environmental Performance

Exhaust levels equivalent to those specified under NRMM (Europe) Stage IIIA and/or US EPA Tier 3 regulations

Super-fine Filter, Long-life Filter for Hydraulic Oil

The large-capacity, super-fine filter is made of a high-performance filter medium consisting of glass fibre reinforced with steel wires. The replacement cycle is four times longer than that of conventional filters, which reduces lifelong operation costs.

Photomicrograph (×250)



Conventional filter (paper fibre)

Super fine filter (glass fibre)



Better State-recognition

Machine inclination* sensor and work area limit value ensure safe operations.

*SL6000S only



Machine inclination sensor



Work area limit value

Industry-standard Automatic Stop Release Switch

Instead of a system of separate keys used to override automatic stop functions for over-load, hook over-hoist, and boom over-hoist, SL6000S and SL4500S employ a more reliable two-stage system of master key and individual switches. A single master key poses no administrative difficulties, and prevents easy override of the automatic stop.



Automatic Soft-stop Function Reducing Shocks

The over-hoisting prevention device prevents the boom from lowering and the jib from hoisting, and softens automatic stopping when the boom is overloaded and swinging sideways.

Highly Acclaimed Safety Devices

- Warning buzzer to alert people in surrounding areas when the crane swings.
- A one-way call system ensures operator safety.
- Function lock lever prevents accidental operation.
- Crawler movement directional markings are clearly visible.
- External alarms activate when the crane is moving or swinging. **Option**
- M/L external display lights inform people in the surrounding area of the crane's load state. **Option**
- Rear/main and aux. hoist drum/boom hoist state drum camera and monitor. **Option**



One-way call



Function lock lever



■ LINE-UP

	<i>SL6000S</i>				<i>SL4500S</i>			<i>SL4500S</i> <i>Light Configuration</i>
Model	SL6000S				SL4500S			SL4500S Light Configuration
LIFT ENHANCER	STD	HL	SHL		STD	HL	SHL	
HL Mast	-	30m	30m		-	30m	30 m	-
Additional Weight	-	-	~ 250t		-	-	~ 250 t	-
HEAVY DUTY CRANE BOOM								
Max. Lifting Capacity	450t x 6.7m	370t x 8.3m	550t x 8.3m		-	-	-	-
Length	24 ~ 84m	36 ~ 84m	36 ~ 84m		-	-	-	-
LUFFING BOOM								
Max. Lifting Capacity	300t x 10.0m	300t x 9.3m	300t x 20.0m		400 t x 5.5 m	377t x 7.0m	377 t x 12.0 m	300 t x 6.0m*3/ 180 t x 10.0m
Length	30 ~ 84m	36 ~ 84m	36 ~ 84m		24 ~ 78 m	30 ~ 84m	30 ~ 84 m	24 ~ 78m
LONG BOOM								
Max. Lifting Capacity	98t x 18.0m	98t x 20.0m	98t x 30.0m		113.5t	-	-	90t x 14.0m
Length	90 ~ 108m	90 ~ 108m	90 ~ 126m		60 ~ 96m	-	-	48 ~ 96m
HEAVY FIXED JIB	Type A	Type B1	Type B2	Type C	Preliminary			Preliminary
					Type A	Type B	Type C	
Max. Lifting Capacity	105t x 20.0m	120t x 20m	120t x 20m	105t x 30m	90.4 t x 18 m	88.6 m x 22 m	64.9 t x 42 m	78.3t x 18m
Boom Length (Min.~Max.)	66 ~ 78m	66 ~ 78m	66 ~ 78m	84 ~ 102m	66 ~ 78 m	72 ~ 84m	90 m x 102 m	66 ~ 75m
Jib Length (Min.~Max.)	18m	18m	18m	18m	18m	18m	18m	18m
LUFFING JIB								
Max. Lifting Capacity	195.1t x 14m	200t x 14.4m	200t x 14.4 m		113.5t x 16.0m	113.5t x 16.0m	113.5t x 16.0m	80t x 16.0m
Boom Length (Min.~Max.)	30 ~ 60m	36 ~ 66m	36 ~ 84m		24~66 m (72 m)	30~72m (78m)	30~78 m (84 m)	30 ~ 66m
Jib Length (Min.~Max.)	24 ~ 72m	24 ~ 72m	24 ~ 84m		24~66 m (54 m)	24~66m (54m)	24~66m (54 m)	24 ~ 66m
Luffing Angle	66 ~ 86 degree				66 ~ 86 degree			66 ~ 86 degree
HOIST WINCH (H1, H2)								
Max. Line Speed (1st layer)	110m / min				110m / min			110m / min
Rated Line Pull (Single line)	137kN {14.0 tf}				132 kN {13.5 tf}			137kN {14.0tf}
Wire Rope Diameter	28mm				28mm			28mm
Wire Rope Length	830 m				790m			H1 720m / H2 280m
WORKING SPEED								
Swing Speed	0.9 min ⁻¹ {0.9 rpm}				1.2 min ⁻¹ {1.2rpm}			1.2 min ⁻¹ {1.2rpm}
Travel Speed	1.0 / 0.6 km/h				1.0 / 0.6 km/h			1.0 / 0.6 km/h
POWER PLANT								
Model	HINO E13C-WY				HINO E13C-WY			HINO E13C-WY
Rated Engine Output (Max.Engine Output)	320 kW/2,000 min ⁻¹ (330kW/1,800min ⁻¹)				320kW/2,000min ⁻¹ (330 kW/1,800 min ⁻¹)			320 kW/2,000 min ⁻¹ (330 kW/1,800 min ⁻¹)
Fuel Tank	600litres				600litres			600litres
HYDRAULIC SYSTEM								
Main Pumps	7 variable displacement				7 variable displacement			7 variable displacement
Max. Pressure	32.0 MPa {326 kgf / cm²}				32.0 Mpa {326 kgf / cm²}			32.0 Mpa {326 kgf / cm²}
Hydraulic Tank Capacity	710litres				710litres			710litres
WEIGHT								
Operating Weight	Approx. 444 t *1				Approx. 413 t *2			Approx. 311 t *4
Ground Pressure	142 kPa {1.5 kgf / cm² } *1				178 kPa {1.8 kgf / cm² } *2			134 kPa {1.4 kgf / cm² } *4
Counterweight	Upper: 200 t				Upper: 160 t			Upper: 120t
	Cabody weights: 50 t				Lower: 51 t			Lower: 31 t
Transportation Weight *Note	63,530 kg *A/ 44,310 kg *B				60,085 kg *C/ 45,000 kg *D			60,085 kg *C/ 44,590 kg *D
DIMENSIONS								
Transportation Width	3,000mm				2,990 mm			2,990mm
Transportation Height	3,400 mm / 2,370 mm				3,405 mm / 2,545 mm			3,405 mm / 2,545 mm
Crawler Width	9,990mm				8,720mm			8,720mm
Crawler Shoe Width	1,500mm				1,220mm			1,220mm
Crawler Length	11,490mm				10,515mm			10,515mm
Tail Swing Radius	8,338mm				8,215 mm			8,215mm
*Note: Please refer to specification brochure for other transportation specs.	*1: Including base machine, counterweights (200t), carbody weights (50t), 24m STD heavy duty boom and 450t hook block. Not including quick connection STD device and upper translifter.				*2: Including base machine, counterweights (160t), carbody weights (51t), crawler weight (20t), 24m luffing boom and 400t hook block. Not including quick connection device and upper translifter.			*3: With standard boom configuration (width 3.0m boom). *4: Including base machine, counterweights (120t), carbody weights (31t), 24m luffing boom and 180t hook block. Not including quick connection device and upper translifter.
	*A: Base machine With: upper/lower connecting device, crane mast, mast raising cylinder, carbody, lower translifter. Without: upper translifter, aux. platform, boom foot pin removal cylinder, reeving winch.				*C: Base machine With: crane mast, W1 winch, carbody, lower translifter. Without: upper /lower connecting device.			
	*B: Upper Structure With: upper/lower connecting device (upper), crane mast, mast raising cylinder Without: upper translifter, lower translifter, aux. platform, boom foot pin removal cylinder, reeving winch, carbody.				*D: Base machine With: crane mast, W1 winch, swing bearing, upper / lower connecting device, upper translifter. Without: aux. platform, reeving winch.			



We walk with you | Kobelco Cranes see the same future as you do.

● The photo is a composite.



Note: This catalogue may contain photographs of machines with specifications, attachments and optional equipment not certified for operation in your country. Please consult KOBELCO for the items you may require. Due to our policy of continual product improvements, all designs and specifications are subject to change without advance notice.

Copyright by KOBELCO CRANES CO., LTD. No part of this catalogue may be reproduced in any manner without notice.

KOBELCO CRANES CO., LTD.

17-1, Higashigotanda 2-chome, Shinagawa-ku, Tokyo 141-8626 JAPAN
Tel: +81-3-5789-2130 Fax: +81-3-5789-3372

URL: <http://www.kobelco-cranes.com/>

KOBELCO is the corporate mark used by Kobe Steel on a variety of products and in the names of a number of Kobe Steel Group companies.

For more information contact: