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.

Note: Standard equipment may vary depending on your areas or countries. Due to our policy of continual product improvements all designs and specifications are subject to change without advance notice.

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It is always people that change the times. The potential within us offers a new future, constantly buffeted by the seas of change. Thus, the highest standards are continually improving, and with them the workplace. With the arrival of the CKE-G series, BME-G series, Kobelco Cranes offer more capability than can be expressed in mere numbers. These capabilities contain the truth that we search for today. Beyond power, we seek new environmental qualities that the earth holds and in answer, the CKE-G series, BME-G series responds with the truth demanded by the modern age.
Satisfaction
Reliable Power for People and the Planet

Max. Lifting Capacity

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
<th>Max. Project Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKE600G</td>
<td>60t</td>
<td>3.0m</td>
</tr>
<tr>
<td>CKE800G</td>
<td>80t</td>
<td>3.0m</td>
</tr>
<tr>
<td>CKE900G</td>
<td>90t</td>
<td>3.4m*</td>
</tr>
<tr>
<td>CKE1100G</td>
<td>110t</td>
<td>3.6m*</td>
</tr>
<tr>
<td>CKE1350G</td>
<td>135t</td>
<td>4.5m</td>
</tr>
<tr>
<td>CKE2500G</td>
<td>250t</td>
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</tr>
<tr>
<td>BME800G</td>
<td>80t</td>
<td>3.0m</td>
</tr>
</tbody>
</table>

 Auxiliary sheave is necessary.

Refusing to compromise on ability, and made to push its abilities to the limit, the CKE-G series, BME-G series also faced other challenges. More efficient transport, an environmentally aware design ideology, control accurate to within tolerances of 1cm, safety, and an attractive design were all factors that had to be considered. Everything about the CKE-G series, BME-G series has been revamped, including its handling of foundation and civil engineering work, revolutionizing the values of existing cranes and transforming it into a crane perfect for the modern age.

SPEEDY
ENVIRONMENT
FLEXIBILITY
UTILITY & SAFETY
DESIGN

The images and descriptions in this catalog include optional equipment.
How close can the CKE-G series, BME-G series to the ideal of a transport system based on maneuverability? The assembling and disassembling that go hand-in-hand with transporting a crane is always difficult. But faced with these challenges, we have achieved real progress in transportability. Built to exceed the expectations that stem from the varied transportation needs of many different nations, the CKE-G series, BME-G series is both efficient and economical, offering instant access to smooth, reliable transport.
Unparalleled efficiency that will revolutionize transport

Our efforts to transform thinking about transporting equipment have resulted in greater efficiency in every possible area. We designed the CKE-G series, BME-G series to require less work and to be easier to transport, and to ensure safety during assembly and disassembly. What’s more, simpler, more efficient loading for transport have reduced the cost of both transport and storage.

CKE800G
- Weight: 25,490 kg*1
- Width: 2,990 mm

CKE2500G
- Weight: 44,960 kg*1
- Width: 2,990 mm

Because the boom and jib are shared, the cost of transport and storage is reduced

In combination with the jib, this boom, which features a new design and increased lifting capacity, makes disassembly easier and reduces transport and storage costs.

Kebedro's Unique "Lightweight Upper Frame"

Thanks to superbly rigid construction, and the use of high quality high tensile steel plate, we have been able to create a Upper Frame and body much lighter than other vehicles in the same class, with a greatly reduced width.

Not only is assembly and disassembly more efficient, the CKE-G series, BME-G series is easier to transport than any previous system.

Self-removal device for Efficient Assembly, Disassembly, and Operation

The self-removal device of the CKE-G series, BME-G series mean that the crawler, cantopy weight, and counterweight boom can be assembled and disassembled without the assistance of another crane.

A "boom assembly/disassembly mode" for increased safety

The CKE-G series, BME-G series is equipped with a seat switch separate to the automatic, overloaded and over-hoist prevention systems, which can be set as a boom assembly/disassembly switch able to cancel the over-hoist prevention function. This function is automatically cancelled when the boom reaches a preset angle, while the LMI function is only cancelled automatically when the boom assembly/disassembly function is needed.
Environmental considerations are a common theme when creating anything, which is why there are daunting obstacles that must be overcome. Designed for use in any conceivable situation, the CKG-G series, BME-G series is equipped with new functions for conserving energy – with the earth as its stage, it must meet the highest ecological standards.
**The Beginning of a Cycle That Contributes to the Environment**

We have raised the standards created for the environment by re-examining the energy we consume. Eliminating needless operations and innovating engine functions allowed us to reduce fuel consumption and transformed the mechanisms that move the crane into a cycle that benefits the environment.

**A “G-Winch” that provides higher speed without rising engine speed.**

The high-speed mode allows the line to be raised or lowered at maximum line speed without raising engine speed when lifting without a load, or even with a light load.

**“G-Engine” Improves Fuel Consumption by 10%.**

G-Engine keeps the engine running within fuel-efficient parameters by limiting maximum engine speed. Engine speed is reduced but pump capacity is controlled to maintain maximum winch speed for running or lifting. Using this “G-Engine” function reduces fuel consumption by approximately 10% when compared to operations on a normal crane.

**G mode**

- **Low idle**: Engine speed 1750 rpm
- **Normal**: Engine speed 2150 rpm
- **Hi idle**: Engine speed 2450 rpm

**2100rpm 1750rpm 10% DOWN**

Equal winch speeds

<table>
<thead>
<tr>
<th>Mode</th>
<th>Engine speed (rpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low idle</td>
<td>1750</td>
</tr>
<tr>
<td>Normal</td>
<td>2150</td>
</tr>
<tr>
<td>Hi idle</td>
<td>2450</td>
</tr>
</tbody>
</table>

\*The number of rotations may vary depending on the model.

**Reduced CO₂ emissions**

Up to 25% reduction in fuel consumption

**Fuel-efficient**

**Exhaust-cleaning DPR**

The DPR (Diesel Particulate active Reduction system) removes PM (Particulate Matter) collected by the DPF (Diesel Particulate Filter) from the diesel exhaust gas, increasing the PM collection efficiency of the DPF, and removing any harmful particulate matter and nitrogen oxides (NOx). The new clean energy system engine utilizes a DPF to reduce particulate matter, which is also kept to a minimum using negative ions.

**A New Clean Diesel System**

Although diesel engines consume less fuel and emit less CO₂ than gasoline engines, they also emit more harmful particulate matter and nitrogen oxides (NOx). The new clean energy system engine utilizes a DPF to reduce particulate matter, which is also kept to a minimum using negative ions.

**A super-fine Filter**

Steel wire reinforced glass fiber gives the new oil filter excellent dirt capturing qualities, making it truly a “super-fine filter.” What’s more, the time between filter changes has been lengthened by a factor of four. A partitioned configuration in which only the filter media is changed reduces scrap and extends the interval between changes, significantly reducing the burden on the environment.

**Steel wire reinforced glass fiber** gives the new oil filter excellent dirt capturing qualities, making it truly a “super-fine filter.”

**An “Auto Idle Stop (AIS)” Function for Eco-driving.**

This Auto Idle Stop (AIS) function stops the engine when the vehicle is stopped, and is the first such function to be used in this industry. AIS stops the engine automatically in situations such as when you are waiting for the next trailer to come and have checked that everything is safe, reducing energy consumption in any operation, be it construction, or loading and unloading at a port. Simply turning the accelerator bar starts the engine again – there is no need to turn the key.

**Performance That Complies with Many Different Environmental Standards.**

The CKE-G series, BME-G series utilizes a low-emission engine that enables it to comply with Euro stage emissions regulations. Although diesel engines consume less fuel and emit less CO₂ than gasoline engines, they also emit more harmful particulate matter and nitrogen oxides (NOx). The “new clean energy system” engine utilizes a DPF to reduce particulate matter, which is also kept to a minimum using negative ions.

**Steel wire reinforced glass fiber** gives the new oil filter excellent dirt capturing qualities, making it truly a “super-fine filter.” What’s more, the time between filter changes has been lengthened by a factor of four. A partitioned configuration in which only the filter media is changed reduces scrap and extends the interval between changes, significantly reducing the burden on the environment.

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- **Normal**: 2150 rpm
- **Hi idle**: 2450 rpm

\*The number of rotations may vary depending on the model.

**Microscopic picture of the filter media**

**Conventional filter (paper filter)**

**Super-fine filter (glass filter)**

\*Act on Regulation, Etc. of Emissions from Non-road Special Motor Vehicles.
Our task was to create a crane capable of responding to the operator's every thought. Construction work demands excellent handling characteristics, and as such it was essential that this crane be adaptable enough to answer the demands of the operator in a wide variety of working environments. In the CKE-G series, BME-G series, it is advanced technology that powers the dynamic action so essential to a crane.
What’s more, the counterweight detection system helps to prevent any configuration errors, reducing the overall weight. Other aspects, such as the set weight of the platform, are also flexible enough to cope with any worksite adjustments of as little as a single inch.

Completely independent main and secondary hoists for better composite operation

Completely independent circuits for the main and auxiliary hoists provide even when using both hoists simultaneously, with no adverse effect on either circuit. As a result, this crane lets you demonstrate your true worth as a professional when working in construction, where positioning requires adjustments of as little as a single inch.

Dual circuits, perfect for bucket, material handling

The CKG-G series. BME-G series has been designed to dual-hoist circuits equipped with a free-lift feature, allowing the speed of both hoists to be adjusted properly even when the load on the main and support hoists is different. This offers the powerful, speedy response needed for material handling. Building in parts or foundation and civil engineering construction work. The CKG-G series, BME-G series is equipped with a separate pump for hoisting the boom, allowing smooth operation when hoisting boom and rope.

Wide, large capacity drums

Both the brakes and reducing devices are encased within the drum, eliminating the need for a brake drum space, and increasing the width. Lap spooling keeps rope damage to a minimum, and the large spooling capacity reduces the chance of irregular spooling, extending the life of the wire rope significantly.

Reduced counterweight specification, for reduced impact on the work site

Each model has been equipped with reduced counterweight specification, allowing the number of counterweights to be cut, reducing the overall weight. Other aspects, such as the set weight of the platform, are also flexible enough to cope with any worksite adjustments of as little as a single inch. What’s more, the counterweight detection system helps to prevent any configuration errors.

Intuitive, easy to understand interface

The interface provides full display of essential data and operational parameters in a compact space. Arranged in an efficient layout, perfectly suited to the task at hand, the gauges and switches have been placed with the movement of the operator’s hands and eyes in mind, ensuring smooth operation. Each design utilizes intuitive pictograms that offer at-a-glance comprehension while working, allowing operators to feel easy from the instant they begin working. Moreover, with no needless operations required, efficiency gains an immediate boost.

Greater visibility of conventional functions!

Display lamp

- G Engine
- G Winch
- AIS operation
- Slow speed state

Error message

- Remote control connection
- Oil cooler operation
- Free fall (main)
- Free fall (auxiliary)
- Dual circuit

Gauges

- Engine speed
- Wind speed
- Engine oil temperature
- Fuel remaining
- Sediment accumulated
- Oil cooler operation

Machine inclination sensor

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

Improved state-recognition

Over-swing preventative device

In addition to the functions already detailed, an over-swing preventative device can be fitted to limit the swing of the crane. Configuration is simple and can be done from the touch panel.

Universally understood pictograms are used, providing intuitive, visual recognition!

Switches

- Swing mode (fast, high speed)
- Swing mode (fast, low speed)
- Swing mode (bucket, low speed)
- Chain hoist mode
- Off/ independent switching
- DFR/ manual operation
Ease of use and safety are two factors that support construction quality at its very roots. To achieve these, it is essential to consider the workplace environment, and more importantly, the user’s point of view. Roomier, easier to use, and safer, the CKE-1 series BMG-1 series aims to achieve standards that raise the bar in terms of satisfaction in the workplace.
Delivering Comfort and Peace of Mind

The design of the CKE-G series, BME-G series represents a new approach to safety and the human senses. Together with improved safety, the layout of the cab space offers heightened levels of comfort and ease of use. What’s more, consideration for safety permeates throughout the entire design, all with the aim of preventing accidents.

### UTILITY & SAFETY

#### Better visibility, better mobility, and a relaxed cab environment create efficiency

1. Increased cab volume (from 2.91m³ to 3.10m³)
   - The increased space given the entire cab is more relaxed feel, offering a pleasant working environment and better ride quality.

2. Increased front glass area (up from 1.0m² to 1.09m²)
   - An expanded field of view provides improved operating conditions, greatly increasing safety and operability. Furthermore, the new wipers have a larger contact surface, for even more convenience.

3. One monitor (new ML screen): Provides a clear image for checking the angles that are difficult to see by eyes, improving the operation safety.
   - It is movable, so the angle can be adjusted as you wish for smoothing various checks and instructions.

4. Short levers / easily-held grips that fit the hand perfectly. The CKE-G series, BME-G series offers mobility, as well as instantaneous course changes and swing.

5. Wider cab entrance (from 565mm to 785mm) for easier access / the wide cab entrance, making it easier to get in and out of the cab, so work is more comfortable.

6. Wider foot space / increased legroom increases operational fatigue and reduces stress.

7. Counterweight detect system / reduced counterweight setting errors for increased safety.

8. Better state-recognition / more accurate comprehension of factors such as attachments and the current inclination of the crane body is now possible, improving manipulation performance.

9. High-quality seat materials / luxurious seat materials offer improved ride quality, and both the lever stand and the seat are fitted with adjusters for greater operator comfort.

10. Full interior trim / all the instruments in the cab are covered, giving the cab the comfort of a living space.

#### Double or triple redundant prevention of boom over-hoists

When hoisting the boom and jib, the primary boom (jib) over-hoisting prevention device automatically halts hoisting when the boom reaches a prescribed angle. When operating as a crane, the boom angle is observed using an angle to ground. For jib operations, the CKE-G series, BME-G series employs a system that measures the jib angle relative to both the ground and the machine, allowing quick detection of any danger. Moreover, it features a dual layer safety system, with a secondary boom (jib) over-hoisting prevention device equipped with an extreme limit function that will not allow the automatic stop point to be overridden. The jib also features both primary and secondary over-hoisting protection devices that prevent boom reversal.

#### Automatic soft-stop function that mitigates shock when automatic stop occurs

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

#### Industry-standard automatic stop release switch

Replacing the system of separate keys used to override automatic stop functions for over-load, hook over-hoist, and boom over-hoist, the CKE-G series, BME-G series employs a more reliable two-stage system utilizing a master key and individual switches. A single master key poses no administrative difficulties, and prevents easy override of the automatic stop.

#### Highly acclaimed safety devices of all types

- A swing flasher and warning buzzer that warning people in the surround areas when swinging.
- A one-way call system to ensure operator safety.
- Function lock lever to prevent accidental operation.
- Easily-seen crawler movement directional markings.
- External alarms when moving or swing.
- M/L external display lights informing those in the surrounding area of the load state of the crane.
- Rear / main and aux hoist drum / boom hoist state drum camera and monitor (color).

#### Better state-recognition

A variety of new options have been added, including a counterweight detect system, an over-swing preventative device and a machine inclination sensor.

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DESIGN

A Design You can be Proud to Drive

An elegant form that emphasizes curves welcomes the operator and blends into the surrounding city. With a pared-down, simple, non-intimidating design and a full-trim interior that has taken even the finest details into consideration, the CKE-G series, BME-G series offers both luxury and comfort. This welcoming design harmonizes naturally with an urban area, delivering an image well suited to a work tool that creates a new background for the city. For the design that people can be proud to use in a variety of situations, this is the new CKE-G series, BME-G series.

PRODUCT STORY

A design that welcomes people gently and blends into an urban environment; a design that people can be proud to drive. That was the starting point for the CKE-G series. BME-G series concept, something never seen in a crane before. After the initial pipe-frame design, we followed a plan that freed press casting to emphasize freedom in a design that pursued our ideals, making flexes into uncharted territory time and again. However, we were also careful to listen directly to people in the workplace and examine world market trends, maintaining an awareness of the needs of the times. This was reflected in a completed design that closely mirrored the actual viewpoint of our customers.

From pipe frame to press-casting

Although designs based on combining flat panels with pipe frames offer excellent cost benefits, we adopted press casting to allow us more freedom in design.

Operator comfort

From the conceptual stage, repeated tests were conducted that helped improve the comfort of the area around the operator’s seat.

Full trim – the cab as living space

Location, measuring, comfort... the cab interior has been taken to the limit of a living space, and is complemented by a side-fold of view for easy operation.

An expressive exterior

Surfaces that are curved yet tight possess a rich texture and capture the light, giving the crane an imposing, more, expressive exterior.
Land, sea, or sky—there is literally no limit to the locations where Kobelco Cranes may be called upon to work. From tall buildings that seem to pierce the heavens, huge bridges spanning the sea, expressways that support transport on land, to airport construction site access routes, the new CKE-G series, BME-G series is set to be a major player in the coming years.

Kobelco Cranes offer a comprehensive lineup in every field, with detailed functions that meet the differing needs of any worksite. The CKE-G series, BME-G series is crystallization of technology we have developed through our quest for the highest standard in cranes, one that has continued since we completed the first truck crane ever made in Japan in 1953, and demonstrates to perfection our abilities in worksites throughout the world.
<table>
<thead>
<tr>
<th>Model</th>
<th>CKE600G</th>
<th>CKE800G</th>
<th>CKE900G</th>
<th>CKE1000G</th>
<th>CKE1350G</th>
<th>CKE2500G</th>
<th>BME800G</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRANE BOOM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
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<td>90 t x 3.6 m **</td>
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<td>31.9 Mpa (325 kgf/cm²)</td>
<td>31.9 Mpa (325 kgf/cm²)</td>
<td>31.9 Mpa (325 kgf/cm²)</td>
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<td>130 t</td>
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<td>106 kPa</td>
<td>111 kPa</td>
<td>85.9 kPa</td>
</tr>
<tr>
<td>Counterweight</td>
<td>13,000 kg</td>
<td>27,200 kg</td>
<td>26,120 kg *</td>
<td>26,000 kg</td>
<td>26,000 kg</td>
<td>26,000 kg</td>
<td>26,000 kg *</td>
</tr>
<tr>
<td>Transport Weight (Base Machine)</td>
<td>31,940 kg **</td>
<td>39,950 kg **</td>
<td>39,360 kg **</td>
<td>41,360 kg **</td>
<td>33,560 kg **</td>
<td>32,430 kg **</td>
<td>48,360 kg **</td>
</tr>
<tr>
<td>DIMENSIONS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transportation Width</td>
<td>2,990 mm **</td>
<td>3,500 mm</td>
<td>3,500 mm</td>
<td>3,500 mm</td>
<td>3,500 mm</td>
<td>3,500 mm</td>
<td>3,500 mm **</td>
</tr>
<tr>
<td>Crawler Width</td>
<td>4,460 mm</td>
<td>4,460 mm</td>
<td>4,460 mm</td>
<td>4,460 mm</td>
<td>4,460 mm</td>
<td>4,460 mm</td>
<td>4,460 mm</td>
</tr>
<tr>
<td>Crawler Length</td>
<td>5,570 mm</td>
<td>6,280 mm</td>
<td>6,280 mm</td>
<td>6,280 mm</td>
<td>6,280 mm</td>
<td>6,280 mm</td>
<td>6,280 mm</td>
</tr>
<tr>
<td>Tail Swing Radius</td>
<td>4,000 mm</td>
<td>4,300 mm</td>
<td>4,500 mm</td>
<td>4,700 mm</td>
<td>4,800 mm</td>
<td>4,800 mm</td>
<td>4,800 mm</td>
</tr>
</tbody>
</table>

** Base machine with boom, gantry, crawler, wire ropes (front/rear/boom hoist)

*** Base machine with gantry, crane, wire ropes (front/rear/boom hoist)
Note: Standard equipment may vary depending on your areas or countries. Due to our policy of continual product improvements all designs and specifications are subject to change without advance notice.

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