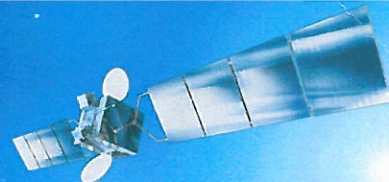


# KOBELCO



KOBELCO has developed a remote operation management system for our cranes. Machines fitted with this system transmit working condition, location, and maintenance history to provide owners with fact-based information that gives tremendous advantages for their asset management.

## Main Functions

### ● Managing Safety/Operational Records and Monitoring Working Status

Crane owners can monitor and record the working condition and operational status of onsite machines on entire fleet basis, promoting greater crane safety.

### ● Acquire Working Condition and Location of the Fleet

The system is based on satellite mapped images, Internet connection, and other means to remotely monitor a crane's working condition and its location. This information is useful in planning maintenance schedules and providing guidance to operators, helping to ensure that crane owners can maximize their fleet efficiency.

### ● Remote Failure Diagnosis

It is possible to narrow down possible failure causes quicker and more accurately by remotely accessing to the current and historical status of the machine, helping to minimize the machine downtime.

### ● Preventive Maintenance Ensures Good Machine Condition and Protects Value

The system recommends appropriate parts replacement timing based on the machine working hour. Regular maintenance can help the machines running at peak performance at all times.



### Detailed Machine and Operation Data Can Be Accessed over the Internet

Operating data for a given crane can be accessed and accurately monitored from the Internet terminal in the crane owner's office.

#### Main Data Handled

- **Map:** Shows past and latest locations and travel history of all machines in the owner's fleet.
- **Performance record:** Hours of operation, Lift operations, and Safety record in the period of a day, a week, or other desired span.
- **At-a-glance function:** Outputs a report (in the form of a record log or sheet) that shows whether or not the machine is currently operating, its total operating hours, and other operating data.





## Main features of Crane Remote Observation Satellite System

### Access to data on machine's operational status and operating location

Data on the operational status and location of a crane working in a remote location may be obtained as easily as if it were close at hand. By using this data for maintenance and crane operation planning, cranes may be utilized more efficiently.

### Management of safe control records and operational status

Operational status and control status can be shared with the KOBELCO Service Engineers to allow better-planned maintenance. This not only promotes safer crane operations but can lead to savings on running costs, and keep your crane always in good condition with records.

### Reduction in downtime through maintenance records

Managed regular maintenance prevents the occurrence of unexpected machine malfunction. Even if malfunction occurs, KOBELCO Service Engineers can handle to cure the trouble swiftly by sharing maintenance records and real time machine information.

#### Other Major Features

Among the system's many features are:

- Monitoring of safe crane operation
- Information output for specific periods
- Management of regular replacement of parts
- Check of operational status (engine running/off, present location)
- e-mail forwarding (mobile phone)
- Location history
- Time management for individual crane control modes
- Monitoring of wind velocity (machines fitted with wind speed gauge only)

### Viewing of machine data via the Internet allows provision of complex machine data

Using the Internet, customers can check on a crane's operational status from the office, and its location can be checked with GPS. Operation data such as whether or not a crane is in operation, total operating and idling hours, etc., is displayed in easy-to-read graph and table formats.

### Operation data can be received on a mobile phone

When necessary, this system can send data as a text message to a mobile phone.

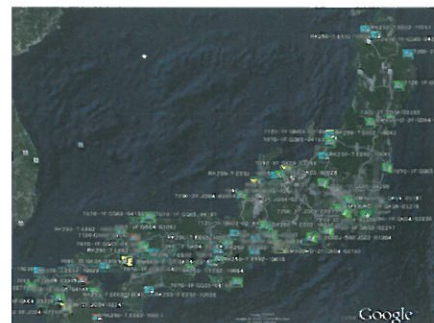


#### Equipment required:

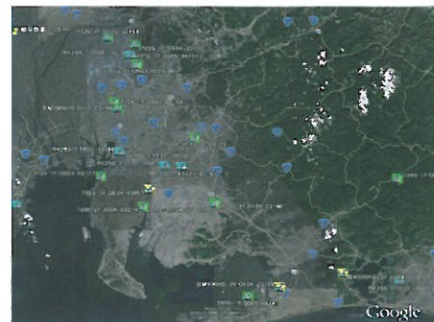
- IT controller
- IT antenna, GPS antenna
- Set-up package (including bracket, signal relay harness and software)
- Computer with broadband connection for internet access (Microsoft IE6.0)
- Excel software (Microsoft Office 2000 or later) to view downloaded documents

#### Compatible crane models:

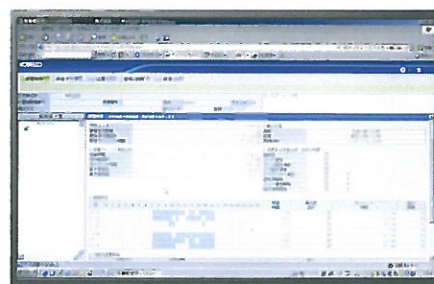
KOBELCO hydraulic crawler cranes, including some existing models.



Screen showing location display



Screen showing location display



Screen showing Weekly Results



Screen showing sample of reports

**Note: The contents and features of this system may be changed without notice.**

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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.

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