

KOBELCO

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 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. Copyright by **KOBELCO CONSTRUCTION MACHINERY CO., LTD.** No part of this catalog may be reproduced in any manner without notice.

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MINI EXCAVATORS CONCEPT BOOK



KOBELCO Global-Mini Goes to Work.

In many countries, the urban infrastructure has reached a mature stage. In other places, the infrastructure is developing at an incredibly rapid pace. In this business environment, KOBELCO mini excavators are meeting a wide variety of pressing needs around the world. And now, the latest machine is ready to answer the call. This new machine was born of KOBELCO ingenuity.

Meeting worldwide needs for compact construction machinery.

A Concept Born of the *Genba Shugji* Principle — Go and See the Site and Listen to Our Customers. KOBELCO's power of *monozukuri* as a heavy equipment maker enabled this new excavator to take shape.

Genba Shugji: Set the starting line and reference point of all our corporate activities at the customer's worksite to offer products, service, and information with true value and meet our customers' satisfaction.
Monozukuri: A Japanese word used to connote the high level of production skill, the mental and spiritual commitment, and the reverence for history held by master craftsmen.

Demand for mini excavators is increasing around the world, from industrialized countries and from emerging markets, especially in Asia. The demand is there, but every worksite is different. At KOBELCO, we have a worldwide sales network that gives us a close-up look at the real needs at worksites in a wide variety of countries. Knowing these needs and knowing the customers are just the start of product development. What kinds of performance and functions must a machine have to meet customers' expectations on a worldwide basis?

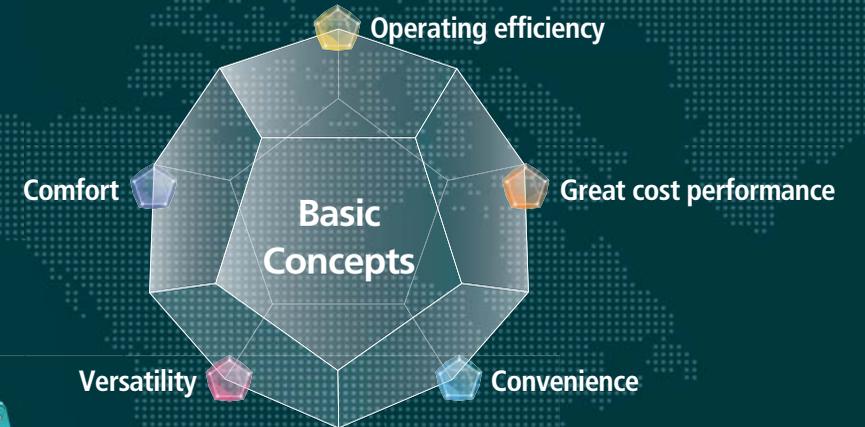
Adhering to our five basic concepts, we added innovative new development and production systems, called upon KOBELCO's unique *monozukuri* culture, and came up with a truly game-changing new machine.

Product quality to the nth degree and the cutting edge of technology including iNDR

—These are in KOBELCO's DNA as a world leader in heavy equipment.

Meet the latest mini excavator model under the KOBELCO brand.

Ready to do powerful work at sites across the globe.



“Ultimate” in Low Noise

75dB[A]*

* Compared to previous 5-ton class machines.
With iNDr and no load, measured 1.5m height from ground level and 1m away from the side of the machine, at high idle (right rearward measurement).

iNDr for the first time in a mini excavator. From KOBELCO.

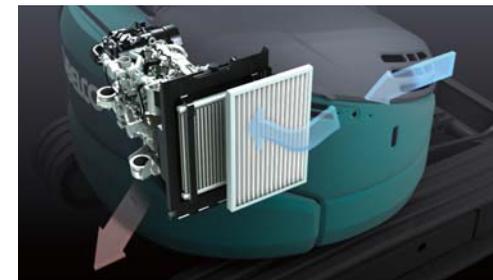
Above all, work without worrying about noise.
That’s why we developed a new iNDr system, and adapted it to a mini excavator for the first time ever.

“Ultimate low noise” and “exhaust underneath” help improve the local living environment.



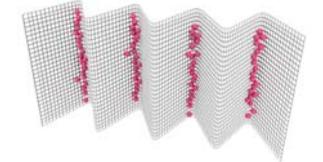
Unique construction traps noise inside.

The iNDr, KOBELCO’s unique cooling system, features lower noise and enhanced dust removal functions. Its 7-ton-plus rear minimum swing radius excavators are already equipped with the system, which has received rave reviews for significant reductions in operational noise. Via the radiators, cooling air is drawn into an isolated chamber that contains the engine and pumps. This cooling air is routed out of engine compartment to effectively minimize fan and engine noise and vented to the atmosphere. In addition to the engine being virtually sealed off, the new system adopted an offset airflow structure in which sound insulation, cooling air intake, and exhaust ducts are not placed in straight line. This reduces exterior engine and cooling unit noise to the absolute minimum. With noise levels below machines classified as “low-noise,” KOBELCO labels its system “Ultimate low noise.”



Dust removal maintains the machine’s performance

The high-density iNDr filter located at the mouth of the air intake duct helps prevent clogging of the cooling unit and air cleaner, thereby maintaining optimum performance. The corrugated filter cleans air through the tops of the ripples and collects dust at the bottoms of the corrugations to reduce clogging.



CG representation of dust

Simplified maintenance

Daily maintenance consists of visually checking the iNDr filter, nothing else. No tools are needed to remove the filter, and if the filter looks dirty, it can easily be washed and reinstalled.



Tremendous Fuel Savings

-23%*

* Compared to previous 5-ton class machines.

Take low fuel consumption even lower.

Higher profits. Almost zero maintenance.
Already known for fuel-sipping machines, KOBELCO further honed its high fuel efficiency technology to take this mini excavator to a new world standard in fuel economy.



The new S Mode cuts fuel consumption even more.

■ Fuel consumption

S Mode: **23%** less*

New S Mode further enhances fuel efficiency. Very convenient when low fuel consumption is a high priority.



3m×1.5t

1.5t



Working radius: 3m; max. lifting capacity (working height at ground level): 1.5t.

*Dozer blade: up.

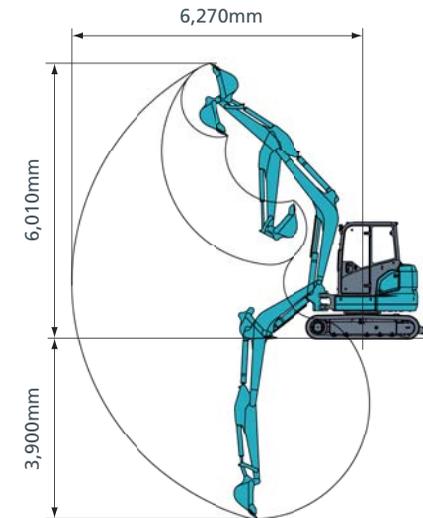
Wide working range. Ample load capacity.

One class higher lifting capacity and wide working range improve work efficiency.

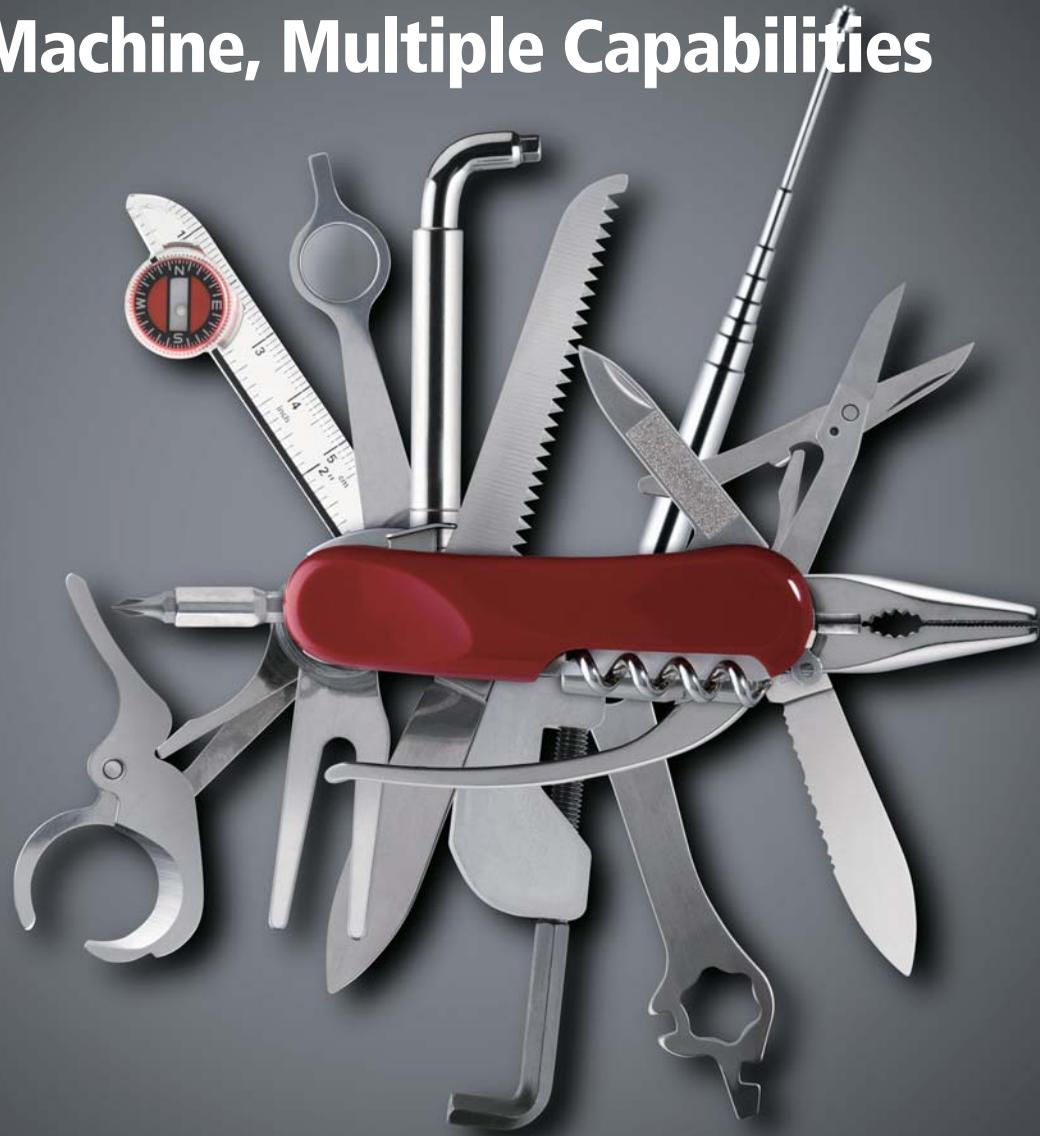
Generous lifting capacity, wide working range.

On a site with limited space, heavier items can be lifted over a wider working area with the more than ample lifting capacity. For example, concrete and PVC pipe, sewer connections, and water pumps can be lifted into place safely and quickly.

■ Working range



One Machine, Multiple Capabilities



ONE for ALL

Superior stability meets a range of needs.

Use one machine for a wide variety of tasks.
Hold down costs and boost overall efficiency.



Quick coupler



Uses a broad lineup of attachments

Grapple

Auger

Fork

Breaker



Efficient on the job, efficient in business.

One machine meets many different needs. Based on this concept, KOBELCO's mini excavator not only offers advanced safety thanks to its optimal body stability, but also allows it to use the widest assortment of attachments possible.

Welcome to a Stress-free World

Excellent Visibility

In the quest for space and comfort.

Comfort. Making it easier to focus on the job at hand.
Comfortable cab furnishings, great safety features.



Large cab

New cab design ensures ample space, and offers a host of features that increase comfort — all-new look, feel, and function.



Air conditioning



Color multi-display (option)



Large door means easy entry and exit.

Wide field of view

Larger window area further improves visibility. Wider front windows offer an open, panoramic field of view.



Improved safety

The high-strength cab meets all ROPS, FOPS1, and TOPS standards for operator safety.

Quality from a World-leading Heavy-equipment Manufacturer

High Strength

Engineered extra-strong, because it's KOBELCO.

Robust. Incredibly durable. Heavy machinery quality, even in a mini excavator, is a high priority, delivering many years of value and performance.

High-strength arm and boom

Engineered to deliver the strength and durability for a wide variety of tasks. The boom tip is forged for extra strength as well. Large in cross-section, the boom is able to handle the demands of the most difficult job conditions. The arm's massive cross-sectional area also gives it exceptional

resistance to bending in normal and sometime, no so normal job conditions.



Thick swing bracket

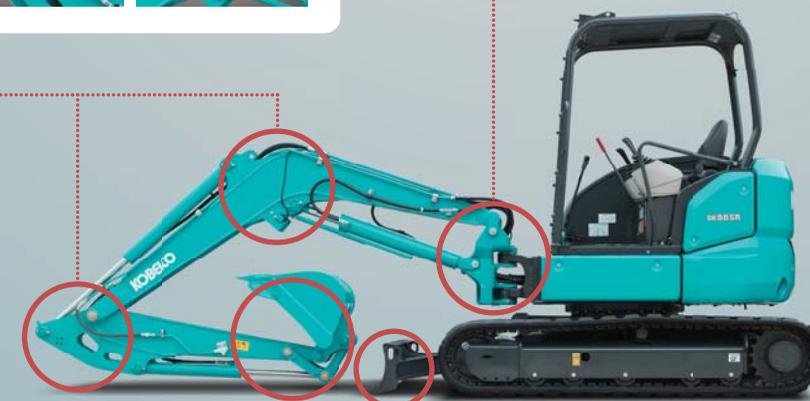
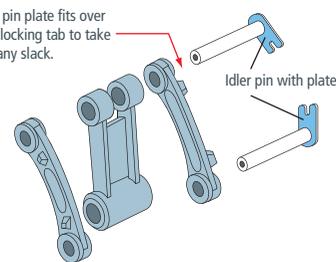
Thick, very strong plate. The pins are locked against rotation and loosening via a locking plate and tab assembly.



Bucket linkage

Capable of withstanding great strain during operation, with a thick, very strong idler link. The main linkage pins are secured against rotation via a locking tab, rather than with bolts that can come loose under working stresses.

The pin plate fits over the locking tab to take up any slack.



Dozer

Box construction dozer supports provide greater strength.



Monozukuri, Power to the World.

Monozukuri: A Japanese word used to connote the high level of production skill, the mental and spiritual commitment, and the reverence for history held by master craftsmen.



TrueBlue KOBELCO
Evolution
Creating value, building a future and
changing the world

Creating value, building a future and changing the world.

Evolution and innovation continue, with our truly global brand.

KOBELCO leaps forward into the waiting world.



GEC, the control tower of our *monozukuri*, is now open.

In 2012, our Itsukaichi plant in Hiroshima went on line with the Global Engineering Center (GEC). It's the control tower for the entire group. The center collects data and information from global markets to optimize global development, procurement, and production, providing feedback to all KOBELCO plants around the world. GEC is KOBELCO's major strategic center, taking our *monozukuri* capabilities and global strategies to a new and higher level.



Close cooperation with KOBELCO Group

KOBELCO Construction Machinery's high level of technical development. The secret lies in the high level of cooperation maintained with the KOBELCO Group. Specifically, the company shares a broad range of fundamental technologies with the group's Research and Development Division, which has both knowledge and expertise as a producer of steel, welding materials, aluminum, copper, and other metals, and knowledge as a leading manufacturer of industrial equipment and construction machinery. With this broad base and the world's most advanced technology, the possibilities are limitless.



Top priority: establish KOBELCO as a true global brand

KOBELCO pursues diversification of technology while utilizing these group advantages, and strives to develop one-of-a-kind products and expand our markets. We are an expanding presence in world markets, maintaining our position in emerging markets and reintroducing the KOBELCO brand as an industry leader in European and North American markets. Our goal is to become a truly global brand with all our products, including heavy machinery.

