



Hydraulic Crawler Crane

7055 7065

7055

Max. lifting capacity: 55 metric tons at 3.7 meters

Max. boom length: 51.82 meters

Max. total length (boom+jib): 57.91 meters

7065

Max. lifting capacity: 65 metric tons at 4.0 meters

Max. boom length: 54.86 meters

Max. total length (boom+jib): 60.96 meters

KOBELCO

Fuel-efficient Operation with an Extra Punch of Power



Kobe Steel's new 7055 and 7065 crawler cranes are tough workers that provide economical, trouble-free operation under all working conditions. Incorporating a sophisticated variable displacement hydraulic system, these versatile machines deliver exactly the right amount of power when and where it's needed. And this power is precisely controlled, with strong yet sensitive winch brakes that provide remarkably smooth performance down to the most delicate of inching operations. The cab in both models is spacious, quiet and comfortable, with a rationalized control layout that helps the operator work at peak efficiency. All of which adds up to excellent on-the-job performance, backed by solid reliability that reduces maintenance requirements to a minimum.

Performance

Versatile Hydraulic Power System

Engine power is used at peak efficiency thanks to two variable displacement piston pumps and one fixed displacement pump that allow independent and combined operation of all machine functions. Power goes where it's needed, with a minimum of wasted energy.



Fast, Efficient Load Hoisting

Two variable-displacement motors drive the tandem drums independently, so that the drums can run simultaneously at different speeds or in different directions. An optional third drum makes it possible to lift main and auxiliary loads at the same time, and facilitates pile driving operations.

Hoist speed is precisely controlled by a switch system which combines two operational modes (High and Low) with two lever stroke positions to provide four speed ranges.

In the High mode, the motor automatically shifts to variable-displacement operation so that the optimum combination of speed and power is obtained for each load. The Low mode provides fixed-displacement operation ideal for the steady, stable power needed for bucket work.

Maximum load hoisting speed is a fast 90 m/min, which results in reduced cycle times, especially as the distance which the load is hoisted is increased.

Uniform, Large-capacity Drums

The large (462mm P.D. x 520mm long) drums are identical, providing coordinated operation that facilitates bucket work. Their large capacities make them ideal for jobs where an extra-long reach is needed, as in underground construction or tetrapod placement. For normal bucket work, work can be carried out using just the first layer, preventing winding irregularities and reducing rope wear.



Strong Yet Gentle Winch Brakes

Operated with a convenient foot pedal, the big, powerful winch brakes can easily handle the rough starts and stops of heavy-duty bucket work. Despite their power, however, they can also be precisely controlled for the most delicate of inching operations. KOBELCO's exclusive direct-acting hydraulic control system ensures smooth performance with low oil pressure when the foot pedal is partially depressed. A positive, high-pressure brake lock is automatically engaged when the pedal is fully depressed.

Tough, Reliable Power

Both of these machines are big lifters, providing that extra push of power that can make a crucial difference in on-the-job performance. The 7055 has a lifting capacity of 55 tons x 3.7m; the 7065 lifts a maximum of 65 tons x 4.0m.



Control

Smooth Swing

The hydraulic swing circuit provides excellent performance in all working modes.

Swing speed is precisely controlled by lever stroke to eliminate shocks at the start and stop of movement. When the control lever is shifted to neutral, the boom continues to move by its own inertia, thereby eliminating another source of shocks. When the lever is thrown in reverse, swing motion comes to an immediate yet smooth stop. The operator can directly feel both swing torque and swing brake force through the lever, giving him extremely precise control.

Inching in Millimeters

Using the speed control switch supplied on the side console, extremely fine inching can be achieved for main and auxiliary drums, and boom hoist. Operations such as equipment installation, tetrapod positioning and pile driving can be done with an accuracy measured in millimeters.





Economy

Unrivaled Fuel Economy

The precise power distribution made possible by the hydraulic system's variable displacement pumps means less fuel consumption. Both the 7055 and 7065 are far more economical to run than other machines in their classes. Further economy is achieved by a feathering system that cuts pump outflow nearly to zero when the machine is idling. This reduces heat loss within the circuit.



Quiet Operation

A hermetically sealed, fiberglass-lined engine compartment provides effective noise and heat insulation. At 2,000 rpm, the unloaded engine produces just 64 dB (A) at a distance of 30m, well within the comfortable range for urban sites.

Wide, Comfortable and Safe Cab

The spacious cab is specially engineered for optimum visibility. It is separated from the machinery cab to reduce noise and vibration levels for more comfortable operation.

The main control levers can be easily adjusted to the desired length. They are arranged on the control stand together with a tachometer and the most frequently used switches.

The high-back reclining seat, equipped with suspension for added comfort, is adjustable forwards and backwards, and up and down to make high-elevation work safer and less fatiguing.



Neutral Braking and Free-fall

Two operating methods are available for both the main and auxiliary drums when the control lever is set in neutral. One provides automatic braking, while the other provides free-fall which is controlled by the foot pedal. Selection is made with the flip of a switch to match the job at hand.



Maneuverability

Shoe-in Type Propel Drive Units

The covered hydraulic motors and reduction gears are carefully arranged to take up a minimum of space and are protected by the crawler shoes. This provides a neat, unobstructed undercarriage for safer, easier travel through rough country.

Each crawler is driven by a direct-drive hydraulic travel motor which gives excellent maneuverability even in restricted urban areas. Two speed settings (low speed/high torque and high speed/low torque) assure a smooth, powerful drive that adjusts to the terrain. Differential speed steering, counter-rotation steering, and skid steering are all possible.



Retractable Crawlers

Two hydraulic cylinders installed in the carbody axles can be used to extend and retract the crawler frames. With the touch of a lever inside the cab, the crawlers can be retracted for easy transportation to and from the jobsite. Retractable crawlers also offer greater maneuverability at narrow jobsites.



Safety & Maintenance

Comprehensive Safety Features

Over 20 safety devices are provided for sure, efficient operation. Since instruments and eight different Check & Safety Monitors are located together on the front panel of the right lever stand, the crane's functioning can be checked with a mere flick of the eyes. Safety is assured by warning lights and buzzers which bring any unusual situation to the operator's attention. These some features also make operation easier.





Service and Maintenance

The 7055 and 7065 incorporate the latest technology to reduce maintenance to a minimum. This includes internal wet-type disk brakes in the swing, boom hoist and propel circuits; lifetime floating seals in the idler and lower rollers; and pre-lubricated bearings in the boom point and hook block sheaves. Six separate doors open up the engine compartment for easy access. Fueling is accomplished at the flick of a switch that activates the provided electric fueling pump.



Address inquiries to:



KOBE STEEL, LTD.

ENGINEERING & MACHINERY DIVISION
Construction Machinery & Compressor Group

27-8, Jingumae 6-chome, Shibuya-ku, Tokyo 150, Japan
Tel: (03)3797-7021/Fax: (03)3797-7072

NOTE: Due to our policy of continual product improvement, all designs and specifications are subject to change without advance notice.

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