

CK2500

KOBELCO CK2500

It takes a true competitive edge to be profitable in today's construction industry. A good idea is not always enough — it takes the right kind of company to bring it to life.

Kobelco's CK2500 Lattice Boom Hydraulic Crawler Crane typifies our commitment to the high level of innovation, imagination, practicality and value that you need to make this crane an exceptional investment that will generate returns for years to come, becoming "Your competitive edge."



KOBELCO

Your competitive edge.

CK2500	
MAX. LIFTING CAPACITY	250 tons
MAX. BOOM	300 ft.
MAX. BOOM + JIB	250 ft. + 100 ft.
MAX. BOOM + LUFFING JIB	200 ft. + 170 ft.



HYDRAULIC CRAWLER CRANE

HYDRAULICS

Innovation breeds strength

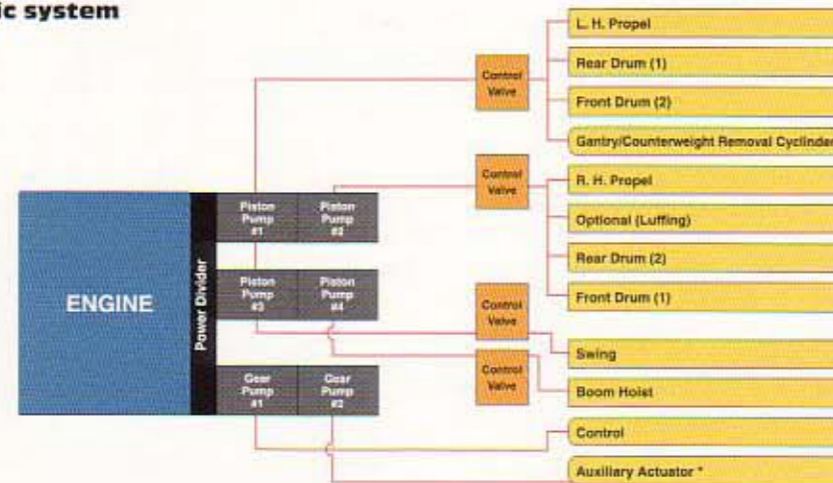
An all-around performer

The full hydraulic system that is the heart of the CK2500 crawler crane handles any task with smooth-as-silk ease and efficiency: from hoisting loads to swing and propelling — not to mention rapid installation and removal of the counterweights and crawler frames.

You can depend on our full hydraulic system for the exceptionally quick, yet controlled response you need to take on any job — and do it as efficiently and profitably as possible — day after day, week after week. Our pilot control system applies power that's directly proportional to the operator's exact lever movement, for ultra-smooth response under any conditions.

The CK2500 uses two swing motors, driving through two sets of planetary reducers to ensure you of a smooth and steady swing movement, even at high engine speeds. Swing speed is 2.1 rpm. The spring-set, hydraulically released, multiple-disc swing brakes are mounted in each swing motor and provides maximum operating control and efficiency.

Hydraulic system



* Max relief valve setting winch, boom foot pin cylinder and trans-filter

HYDRAULIC SYSTEM

Pumps:

Boom	1 variable-displacement piston-type pump
Hoist and propel	2 variable-displacement piston-type pumps
Swing	1 variable-displacement piston-type pump
Control	1 fixed-displacement gear-type pump
Auxiliary functions	1 fixed-displacement gear-type pump

Max relief valve pressures:

Load hoist, boom hoist & propel circuits	4,480 psi (315 kg/cm ²)
Swing system	3,985 psi (280 kg/cm ²)
Control system	780 psi (55 kg/cm ²)

Reservoir capacity: 144 US gal (545 liters)

MAINTENANCE

Tough, Low Maintenance Durability

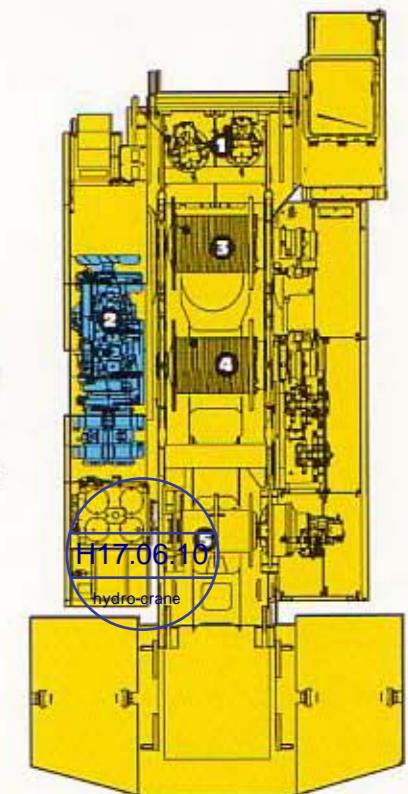
Careful attention has been paid to every detail of design so that the CK2500 stays on the job, not in the shop. Routine checks can be conducted easily with the help of service compartment doors that provide full access to the engine and hydraulic components. From the maintenance-free winches to the easy-access engine layout, the CK2500 is one of the easiest machines in its class to maintain:



- Lifetime sealed and lubricated cast-iron rollers and idler sprocket for years of trouble-free service
- The CK2500 is configured to make engine checks and other routine maintenance quick and easy
- Mechatronic self-diagnostic computer system
- Upper draw works are open for easy maintenance and service



- 1 Swing Unit
- 2 Power Plant
- 3 Front Winch
- 4 Rear Winch
- 5 Boom Winch



CK2500

LOWER MACHINERY

LOWER MACHINERY

Save time and money

One tough machine

The CK2500 features an all-welded, high-tensile-strength steel carbody, manufactured as a single piece, using the latest engineering technologies for unmatched rigidity. The crawler frame assembly consists of an idler wheel, 12 lower rollers, the travel motor assembly, sprocket, two upper rollers, slide rails and 67 flat shoes on each side. Shoe width is 48 in. (1,220 mm).

On-site maneuverability

Independently driven hydraulic travel motors with planetary reduction units provide three steering modes for optimal on-site maneuverability. In addition to conventional skid steering, the independent crawler drive enables counter-rotation of the tracks as well as differential track speed steering. Travel speed in high range is 0.7 mph (1.1 km/h) and in low range 0.44 mph (0.7 km/h). Travel motors are less than track shoe width, protecting them from damage.

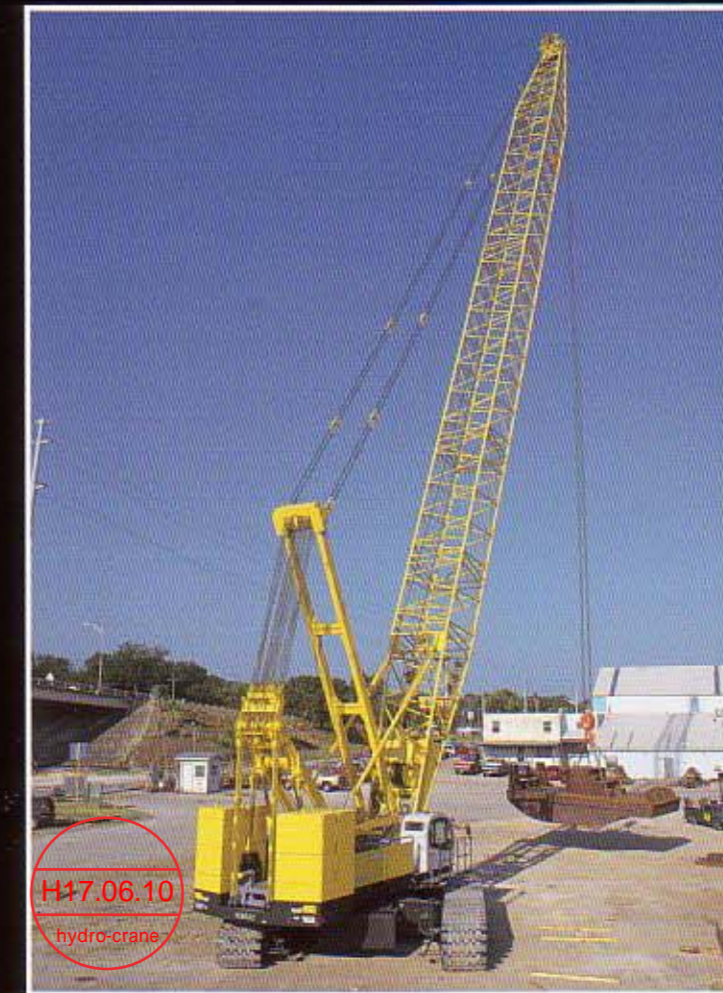
Easy transport and assembly

Because time is money on any job, we designed the CK2500 so that an experienced three-man crew can unload and erect the crane, with a 50' base boom, within a half day of its arrival on site. Use the built-in, remote-controlled Trans-lifter (jack system) to lift the CK2500 clear of the trailer, then drive the trailer away. Hydraulic cylinders raise the gantry and the mast to their working positions. The mast is reeved with a hook block and is used to lift and attach the front and rear carbody counterweights, the crawler side frames and the boom. The rear counterweight assembly is raised into position by the gantry.

Assembly can be done completely without the need of an assist crane or other costly equipment. The same is true for disassembly of the crane and transporting it to the next work site.



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