

KATO

NK-65

**FULLY HYDRAULIC
TRUCK CRANE**



KATO WORKS CO., LTD.

NK-65

FULLY-HYDRAULIC FULL-SLEWING TRUCK CRANE

- NK-65 is the largest operable truck crane mounted on an ordinary conventional truck chassis of 4 to 4.5 tons. Its maximum lifting capacity is 6.5 tons.

A New Stronger Arm with Extra Strength Capacity



Newly Unique Functional Boom

- The boom has the newly unique structure, designed to cause very smooth operational functions and structural balance. Uniquely design standards enable the crane to develop the rated performance even in narrow locations. In addition, the crane is capable of providing expanded workable applications ranging from light duty construction work of steel structures and erection of prefabricated buildings to heavy duty structural work.
- A rooster sheave is provided at the top of the boom. This construction allows the crane to accomplish a quick single rope operation with the fly jib stored inside of the main boom and without re-hooking of the wire ropes.

Quickly Positioned to Develop The Rated Performance in Narrow Locations

- The fly jib is stored inside of the main boom. It can be quickly and easily set by one man while using it. This greatly facilitates the handling procedure in narrow locations.

Extending fly jib



Retracting fly jib



Comfortable Operator's Cab, Attractive Design Based on Easy-to-use Standards

- The operator's cab is provided with an easy-to-use equipment while being a comfortable environment to the operator, too! Based upon this design concept, the operator's cab is neatly equipped with easy operable levers, instruments, switches and controllers so that the operator can easily see and use them. Accordingly, the easily operational status of the truck crane can be accurately operated safely and quickly.
- A well lightable operator's cab is a feature because of the full sized front, rear, right and left clear window glass sides. This provides a wide range and unobstructive view in all directions. It enables the truck crane operator to appreciate safe operations.
- Large sized window wipers are provided on the front and overhead glasses, respectively so that the truck crane can be operated safely during inclement weather.

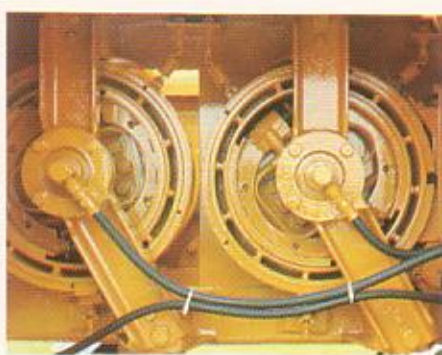


• The heater is an optional part.



Operational Efficiency is Improved! Powerful Winches with Attached Reduction Gear!

- The powerful winches of two drums are functioned by hydraulic motor and are so designed so as to quickly change its operational status from free fall to powered fall or vice versa. The rope winding speed is the fastest in this class, winding to a maximum of 70 m/min in both the main and auxiliary winches. This rope speed enables the truck crane operator to accomplish efficient constructional loading and unloading operations.
- Clutches and brakes of the main and auxiliary winches are arranged on the same side. This facilitates easy and quick inspection, adjustment and maintenance.



Highly Efficient Simultaneous Mechanism

- This truck crane has a uniquely devised mechanism with two powerful hydraulic pumps in which two different operations as slewing and special crane operations of rope winding by the winch, and derricking and extending of the boom can be accomplished simultaneously. This enables the crane to function more efficiently, and its working range is extended to a greater usefulness.

Perfectly Various Safety Devices

- Special care is used to protect the truck crane from damage. The truck crane has many unique safety devices as safety valves in the hydraulic system, slewing lock device, outrigger lock device, boom derricking safety device, boom extending & retracting safety device, over winding alarm device, boom angle indicator, automatic safety cut-out (optional) and weight indicator (optional). In addition to the above, the Model NK-65 is newly equipped with a front zone alarm device.
- The front zone alarm device flickers the front zone indicator lamp, after the boom enters the front zone of the truck. It warns the operator of the rated allowable load.
- The respective cylinders of the boom, outrigger, etc., are provided with special safety valves. These safety valves enable the crane to function safely.

Stable Outrigger Quickly Positioned

- The easy to handle outrigger can be positioned quickly, and its stability is superior. In addition, a selector valve is a newly equipped device on the outrigger.



PRINCIPAL SPECIFICATIONS

Nomenclature		KATO Fully Hydraulic Truck Crane
Model		NK-65
• Performance		
Crane capacity	6.5t x 2.3m	7.7m boom. Over rear and over side with outrigger stretched.
	4.4t x 3.0m	10.65m boom. Over rear and over side with outrigger stretched.
	3.4t x 3.5m	13.6m boom. Over rear and over side with outrigger stretched.
	1.1t x 8.5m	7.7m boom. Over rear and over side with rooster sheave and outrigger stretched.
	1.1t x 4.5m (75°)	13.6m boom + 6.0m jib. Over rear and over side with outrigger stretched.
Boom length	Basic	7.7m
	Maximum	13.6m
Jib length		6.0m
Maximum lifting height	13.7m	
	19.1m (13.6 boom + 6.0m jib)	
Main winch rope speed		70 m/min. at the 3rd layer of wire rope.
Auxiliary winch rope speed		70 m/min. at the 3rd layer of wire rope.
Main hook speed		11.6 m/min. (6 parts)
Auxiliary hook speed		70 m/min. (1 part)
Boom derricking speed		22 sec. (-3° ~ 78°)
Boom extending speed		5.9 m/21 sec.
Slewing speed		2.8 r.p.m.
• Hydraulic System		
Hydraulic pump		Dual gear pump
Winch hydraulic motor		Axial plunger type
Slewing hydraulic motor		Gear type
Control valve		Multiple plunger type
Cylinder		High pressure double acting type
• Superstructure System		
Winch system		Functioned by hydraulic motor. Spur gear reduction type (with free fall device)
Slewing system		Functioned by hydraulic motor, worm gear reduction type
Boom derricking system		Cylinder-pusher type
Slewing device		Bearing type
Outrigger		Hydraulically supported vertical type
• Wire Ropes		
Main		6 x Fi(29) I.W.R.C. (10 mmφ x 110m)
Auxiliary		6 x Fi(29) I.W.R.C. (10 mmφ x 50m)
• Hooks		
Main		6 parts
Auxiliary		1 part
• Safety Devices		
		Automatic safety cut-out (optional) and weight indicator (optional), outrigger lock device, slewing lock device, boom derricking safety device, boom extending & retracting safety device, over winding alarm device, boom angle indicator, hydraulic circuit safety valve (relief valve).
• Undercarriage		
Model		MITSUBISHI FK102F
Overall weight		7,945 kg

• This catalog may be subject to change without notice.



• The truck crane must travel on road with the hook attached to the support fixture at the middle of the chassis.