KATO

FULLY HYDRAULIC TRUCK CRANE

MODEL

NK-8A

KATO WORKS CO.,LTD.

TOKYO

KATO NK-8A

FULLY-HYDRAULIC FULL-SLEWING TRUCK CRANE

Maximum lifting capacity : 8tons
Maximum boom length : 15m (with jib)

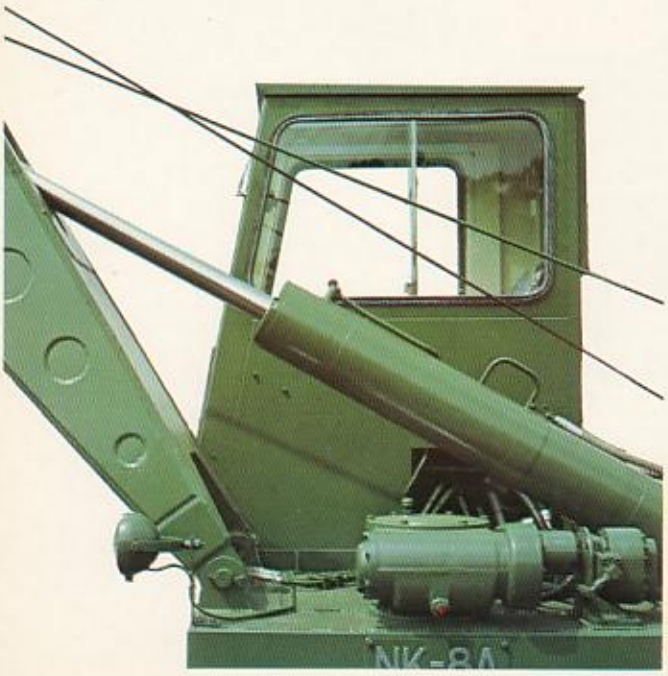
Model NK-8A is one of the most economical truck cranes in **KATO** hydraulic crane series.

In order to obtain maximum utilization from the machine, in particular, a high pressure circuit has been employed together with the use of high quality materials, thus minimizing significantly the possibility of mechanical trouble and eliminating costly downtime.

It is now being widely used for construction of buildings, loading and unloading in harbours, transportation services, etc., and its distinguished performance is being highly appreciated among users.

Boom derricking cylinder unique to KATO

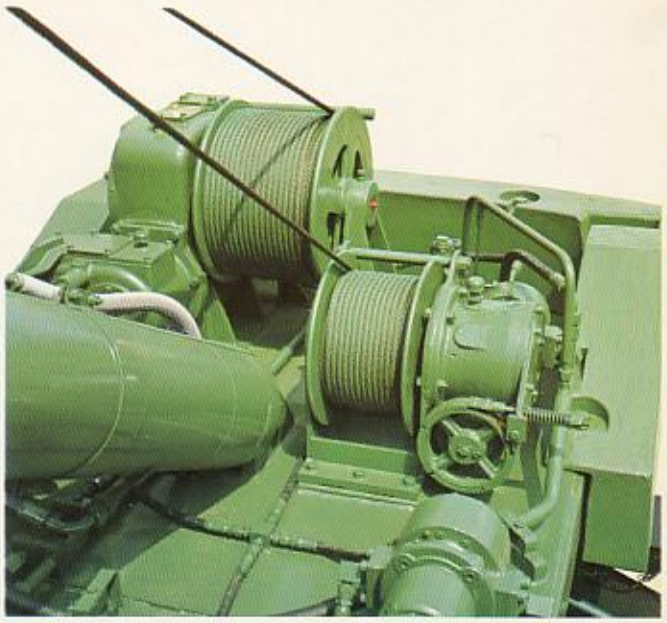
This cylinder, thanks to the newly-provided rear supporting system, permits the boom to derrick enough to handle any long articles easier, and at the same time, there is absolutely no possibility of the cylinder damage resulting from hitting of the lifted article against the cylinder.



Main winch with 2 revolving speeds

When handling heavy loads, the wire rope speed may be decreased and on the other hand, for relatively light loads, the speed be increased, thus allowing the crane work to be carried out safely as well as efficiently with this winch having 2 speeds changeable according to the handled loads.

(Auxiliary winch with fixed speed is optional.)



Rugged outriggers

H-type outriggers can be extended enough to provide a highly stable and wide-span base at both sides, ensuring a great resistance to occasional sudden shock that might be given to the truck body during crane work.

Further, extension of the outriggers at both side is freely adjustable depending on the jobsite conditions, making it possible to do work smoothly even in narrow places.

Easy-to-operate jib boom

The jib necessary for the work at high places can be erected in minutes while sliding in field merely by inserting the connecting pins. When moving the truck to the next jobsite, it may be retracted along the back of the main boom. Furthermore, it is also possible to extend and retract the main boom with the jib kept on.

SUPERSTRUCTURE

Major specifications:

Model:	KATO Model NK-8A
Appellation:	Full-hydraulic truck crane
Overall length:	Approx. 10,650 mm
Overall width:	Approx. 2,490 mm
Overall height:	Approx. 3,430 mm
Chassis:	7.5-ton and 8-ton chassis

CRANE CAPACITY:

Lifting capacity:	8,000 kg (with the use of outriggers) (When crane equipment has been mounted on 7.5-ton and 8-ton truck chassis)
Boom length:	7 m ~ 10 m (hydraulically telescoped)
Jib length:	5 m (sliding fit)
Max. working radius:	10.5 m
Boom derricking angle:	0° ~ 60°
Hoist and lower rope speed:	High speed: 86 m/min Low speed: 48 m/min
Boom derricking times:	14 sec/0° ~ 60°
Slewing speed:	2.5 rpm

HYDRAULIC EQUIPMENT:

Hydraulic pump:	Gear type
Hydraulic Motor:	For driving winch and slewing operation
Control valve:	Multiple spring return type (5-plunger type for crane mechanism and 2-plunger for outrigger mechanism)
Cylinder:	High pressure double acting type x 10 pcs.
Reservoir capacity:	150 liters
Winch:	Hydraulic motor-driven type with worm reduction gear (equipped with high/low 2-speed transmission)
Slewing:	Hydraulic motor-driven gear and worm reduction gear system
Slewing device:	With thrust ball and ball bearing
Wire rope:	6 x Fi(29), Class 3, 12 mm dia. x 75 m
Outriggers:	H-type operated hydraulically

The specifications in the catalogue subject to be changed without notice.

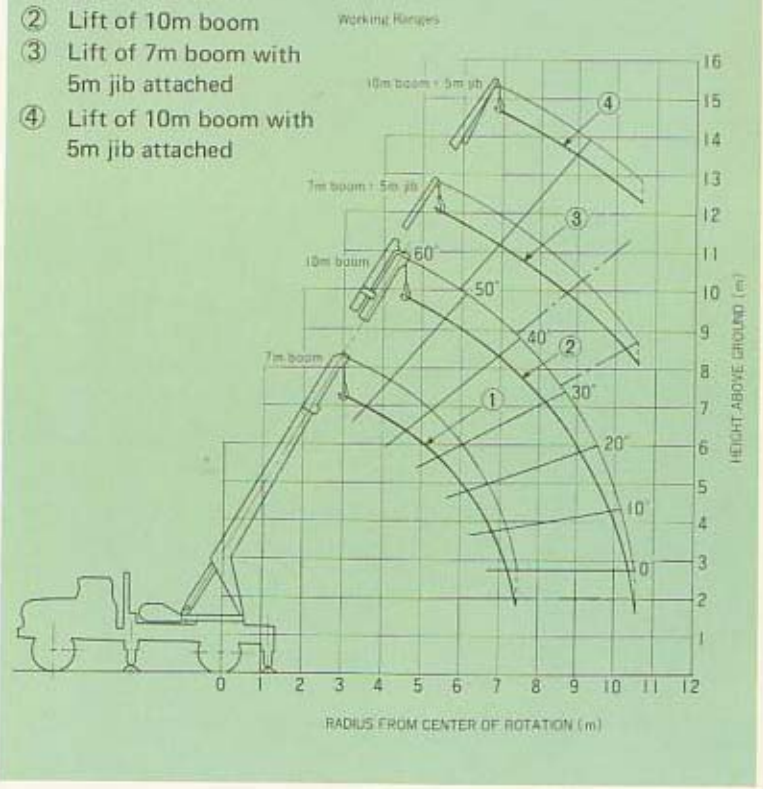
Table of load rating(Basic crane rating)

Working radius (m)	7 m ~ 10 m booms		5 m jib	
	With outriggers extended		With outriggers extended	
	At the rear	At both sides	At the rear	At both sides
3.4	8.00	8.00		
4.0	6.45	5.80		
5.0	4.80	4.15		
6.0	3.75	3.10	1.25	
7.0	3.00	2.40	1.25	
8.0	2.45	1.90	1.25	
9.0	2.05	1.60	1.00	
10.0	1.70	1.30	0.85	
10.5	1.60	1.20	0.80	

(Unit: Metric Tons)

Working range chart

① Lift of 7m boom
② Lift of 10m boom
③ Lift of 7m boom with 5m jib attached
④ Lift of 10m boom with 5m jib attached



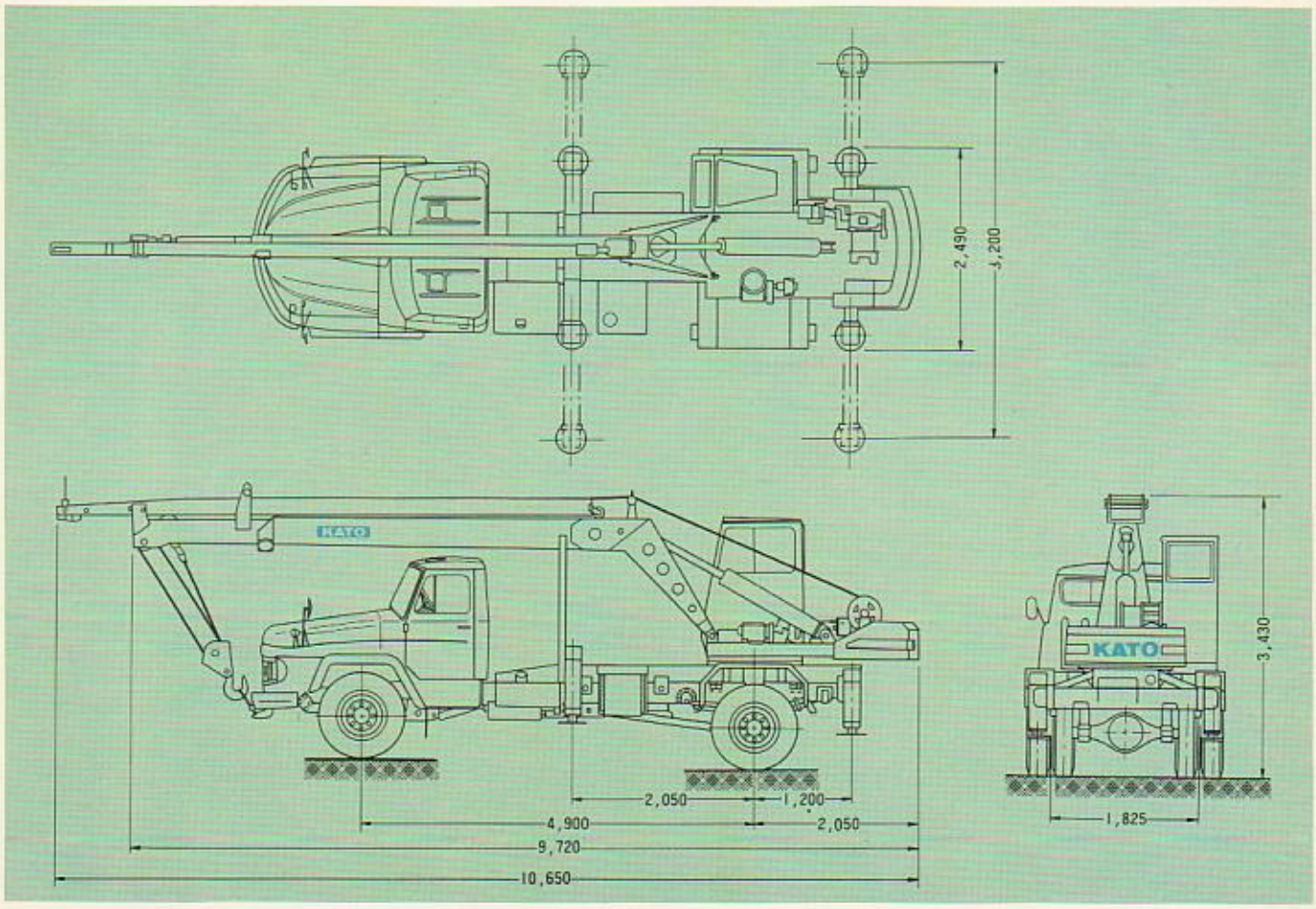
Notes:

1. The maximum liftable load given in this chart shall be under 78% of the crane tipover load on a level and solid ground, in which the dead load of the following hoisting rig be included.
   (Dead load of main hook block: 100kg
   Dead load of jib hook block: 50kg)
2. When the jib has been attached, the main hook lifting load shall be the value obtained by subtracting 350kg from the maximum liftable load at a time no jib is attached.

CARRIER

MODEL	MITSUBISHI T331L
TOTAL LENGTH mm	10,650
TOTAL WIDTH mm	2,490
TOTAL HEIGHT mm	3,430
ENGINE	
Model	MITSUBISHI 6DB1
Max. Output PS/rpm	165/2,300
Max. Torque kg-m/rpm	57/1,400
GROSS WEIGHT Kg	13,480
FRONT AXLE Kg	4,230
REAR AXLE Kg	9,250
WHEEL BASE mm	4,900
TREAD FRONT mm	2,000
TREAD REAR mm	1,825
MAX. SPEED Km/h	95
TURNING RADIUS m	8.6
GRADEABILITY (%)	22
DRIVE SYSTEM	4x2
CLUTCH TYPE	Dry single disc
TRANSMISSION SYSTEM	Synchromesh (2 ~ 5 speed)
TIRE FRONT	10.00-20-14PR
REAR	10.00-20-14PR
FUEL TANK CAPACITY	130
STEERING TYPE	Ball nut with power assist
ELECTRICAL SYSTEM	24V starting, lighting, instrumental light, beam headlight, tail and stoplight, windshield wiper, horn and turn signal.

- *MACHINE is subject to the user's specifications and any chassis having proper capacity and dimension are applicable.*
- *We reserve the right to make specification or equipment changes without notice.*



KATO

KATO WORKS CO.,LTD.

HEAD OFFICE:	No. 9-37, 1-chome, Higashi-ohi, Shinagawa-ku, Tokyo, Japan
Tel:	Tokyo 471-8111
FOREIGN DEPARTMENT:	The 17th Mori Bldg., Shiba Nishikubo Sakuragawa-cho 2, Minato-ku, Tokyo, Japan
Tel:	Tokyo 591-5111
Cable Address:	CRANEKATO TOKYO
Telex:	0 222-4519 (CRKATO J)

77075000R2(T)) Printed in Japan