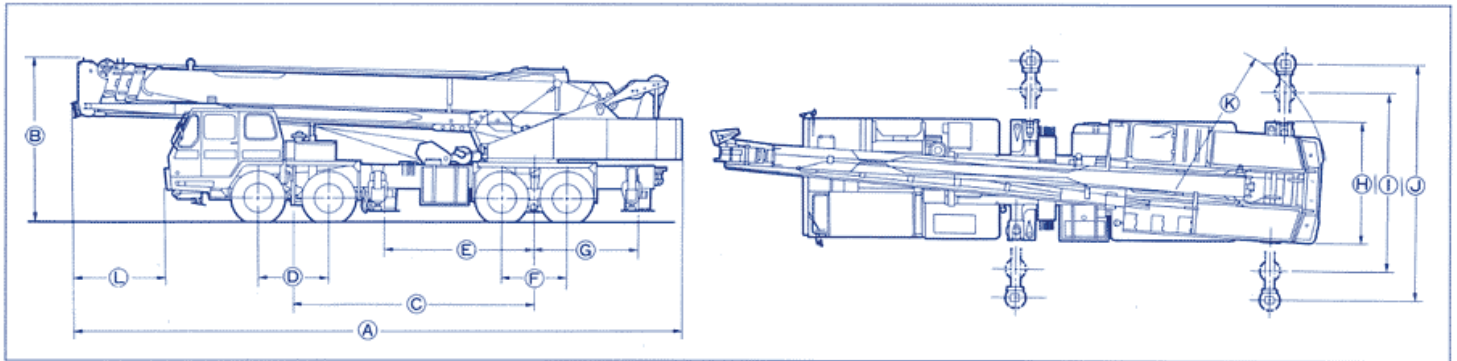


# NK-300E-v

## FULLY HYDRAULIC TRUCK CRANE

### SPECIFICATION



Carrier name and model	A	B	C	D	E	F	G	H	I	J	K	L
Mitsubishi K303LA	12,580	3,450	5,000	1,450	3,100	1,350	2,150	2,500	4,100	6,100	3,395	1,800
Nissan Diesel KG45SXL	12,580	3,450	4,940	1,520	3,100	1,300	2,100	2,500	4,100	6,100	3,395	1,630

(Unit : mm)

### CRANE SPECIFICATION

#### Performance

Maximum rated lifting capacity	: 30 metric tons × 3.0m
Boom length	: 10.5m ~ 33m (4 section)
Fly jib length	: 8.7m ~ 14.5m (2 section)
Max. lifting height	: 32.8 m (Boom) 47.3 m (33 m Boom + 14.5 m jib offset 5°)
Boom derricking angle	: -3° ~ 80°
Boom derricking time	: 53 sec. (-3° ~ 80°)
Boom extending time	: 110 sec. (10.5m ~ 33m)
Hoisting line speed	
Main winch	: 110m/min. (at 4th layer)
Auxiliary winch	: 95m/min. (at 2nd layer)
Hoisting hook speed	
Main winch (part of line; 10)	: 11.0m/min. (at 4th layer)
Auxiliary winch (part of line; 1)	: 95.0m/min. (at 2nd layer)
Stewing speed	: 2.6 r.p.m. (Speed: Subject to no load)

#### Hoisting Ropes

Main winch;	Type	: 4 × F (a + 40) (Non-rotating type)
	Diameter	: 16mm
	Length	: 180m
Auxiliary winch;	Type	: 4 × F (a + 40) (Non-rotating type)
	Diameter	: 16mm
	Length	: 105m

#### Hydraulic System

Oil pump	: 4 section gear type
Hoisting motor	: Axial plunger type
Stewing motor	: Axial plunger type
Cylinder	: Double acting type
Control valve	: 3 position 4 way double acting with integral check and relief valves
Oil reservoir capacity	: 420 lit.

#### Superstructure

Hoisting mechanism	: Hydraulic motor-driven, gear reduction type (automatic brake system) single winch x 2
Stewing mechanism	: Ball bearing type
Boom derricking mechanism	: Direct-acting cylinder type
Outrigger system	: Hydraulic, vertically supporting with float and vertical cylinder in single unit
Front jack (option)	: Hydraulic, vertically supporting with float and vertical cylinder in single unit
Crane cab	: All steel welded construction

#### Winch system

Main winch & Auxiliary winch	: Driven by axial plunger type hoisting motor through built-in gear reduction. Controlled independently by respective operating lever. Equipped with automatic brake. With free fall device
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#### Safety Devices

Microcomputer type ACS fully automatic overload protection device (Moment Limiter)  
Boom falling safety device, Overhoist prevention device, Drum lock device, Automatic winch brake, Irregular winding prevention device, Hydraulic safety valve, Outrigger lock device, Stewing lock device

#### Option

Oil cooler, Front jack, Voice alarm device for ACS, Heater, fan and radio for crane cabin

# CARRIER SPECIFICATION

## ■ MITSUBISHI K303LA

### General dimensions

Overall length:	approx. 12,580mm
Overall width:	approx. 2,500mm
Overall height:	approx. 3,450mm
Wheel base:	6,400mm (1,450mm + 3,600mm + 1,350mm)
Treads:	Front 2,050mm Rear 1,845mm
Center to center of extended outriggers:	6,100mm (Fully extended) 4,100mm (Intermediately extended)
Gross vehicle weight:	approx. 28,800kg
Front	approx. 9,400kg
Rear	approx. 19,400kg

### Carrier

Maker & Model:	MITSUBISHI K303LA
Drive system:	8 x 4
Maximum traveling speed:	65km/h
Gradeability (tanθ):	30% (computed, @G.V.W. = 28,800kg)

Minimum turning radius  
(center of extreme outer tire): 11.0m

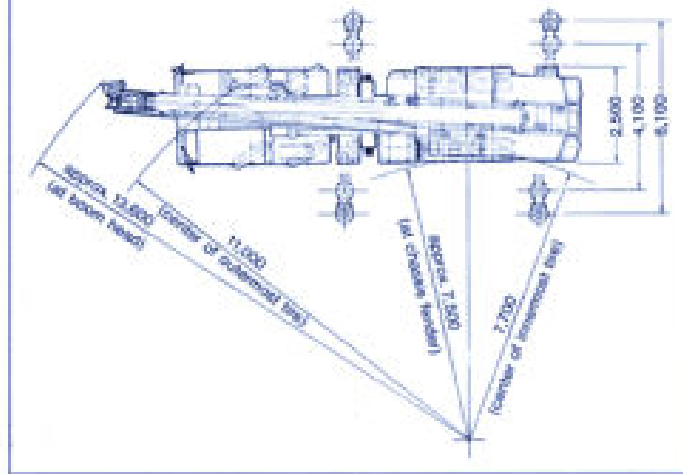
### Engine

Maker:	MITSUBISHI
Model:	8DC8-2A
Type:	4 cycle, water cooled, diesel
No. of cylinder:	V - 8
Piston displacement:	14,886cc
Max. output horsepower:	290 PS/2,000 r.p.m. 213 KW/2200 r.p.m.
Max. output torque:	100 kg-m/1,400 r.p.m. 980 N-m/1,400 r.p.m.

NOTE: The output is in accordance with JIS D1004, 1976.  
Rated power output guaranteed within 5% at standard ambient condition.

Clutch:	Single dry plate, hydraulic control with air booster
Transmission:	5 forward & 1 reverse speed, synchromesh and constantmesh gear Reverse "ELLIOT" type
Axes:	Front Full floating type Rear Full floating type
Steering:	Ball nut type with power booster
Suspension:	Front Semi-elliptic leaf springs Rear Equalizer beams and torque rods
Brake:	Service 2 circuit air brake, 8 wheels internal expanding type Parking & Emergency Auxiliary Spring loaded brake, acting on 4 rear wheels, variable air operated Exhaust brake
Electric system:	24V
Battery:	12V—145F51 x 2
Fuel tank capacity:	200 lit
Driver's cab:	All steel welded construction, 2 persons, low line type, offset left hand side
Tire size:	Front 10.00—20—14PR Rear (dual) 10.00—20—14PR

Mitsubishi K303LA



\*NOTE: KATO products and specifications are subject to improvements and changes without notice.



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