

# MK6

## Leaf Suspension

GVM 10,400kg\* GCM 14,900kg



## Specifications

### ENGINE

**Model:** JO8E -TE - a vander engine manufactured for Nissan Diesel  
6 cylinder 4 valves per cylinder, 4 cycle, direct injection, water cooled, in-line diesel engine, Variable nozzle turbocharger with intercooler

**Number of cylinders:** 6 cylinders  
**Bore x stroke:** 112mm x 130mm  
**Total piston displacement:** 7,684 cc  
**Max. output (ISO Net):** 168 kw (228 PS) at 2,500 rpm  
**Max. torque (ISO Net):** 686 N.m (70 kgm) at 1,500 rpm  
**Max. governed speed:** 2,550 rpm  
**Compression ratio:** 18:1  
**Auxiliary brake:** Pneumatically operated Exhaust Brake

### Lubrication System:

Forced feed by gear pump, Flat tube type oil cooler, Full flow and by-pass oil filter with replaceable element, 11 litre capacity

### Air compressor:

Water cooled reciprocating type, single cylinder with dryer and oil mist separator

### Cooling System:

Forced feed by centrifugal water pump, wax pellet type thermostats incorporated with a by-pass, aluminium corrugate fin type radiator with reserve tank and viscous coupling driven 620mm 8 blade cooling fan

### FUEL AND INTAKE SYSTEM

High pressure electronically controlled common rail fuel injection system  
Replaceable primary and secondary fuel filters  
200lt capacity steel fuel tank with lockable cap (LHS)  
Dry paper element air cleaner  
High mounted RHS air intake snorkel

### EXHAUST AND EMISSION CONTROL SYSTEM

Emission standard - ADR 80/02  
Electronic controlled, selective, cooled EGR  
Under chassis mounted RHS muffler / catalytic converter with horizontal rear facing exhaust discharge under truck

### ELECTRICAL

24 volt, negative ground system  
2 x 12 volt 120 Ah batteries mounted on LHS frame  
24 volt - 60 amp. with built-in IC regulator

### CLUTCH

Dry single plate, organic, hydraulically operated clutch release mechanism with air servo assistance

**Diameter of clutch disc:** 350 mm

### TRANSMISSION

**Make and model:** Nissan Diesel MLS63B

Six forward speeds and one reverse, synchro mesh 2nd to 6th gears. Non-synchro 1st and reverse. Mechanical remote control operated shift with air servo assist

Gear ratios:	Gear	Ratio	Gear	Ratio
	1st	6.72	4th	1.44
	2nd	4.03	5th	1.00
	3rd	2.30	6th	0.74
			Rev	6.121

**Transmission PTO opening:** LHS

**PTO drive gear rating:** 147Nm @ 62% engine speed (nominal ratio)

### BRAKES

Air Over Hydraulic (AOH) dual line, internal expanding, leading and trailing shoe type system with 4 channel BOSCH ABS and Easy Hill start (EHS)

Air pressure:	7.2 - 8.5 kg/cm <sup>2</sup>		
	Front	Rear	Total
<b>Drum diameter:</b>	320 mm	320 mm	
<b>Lining area:</b>	1360 cm <sup>2</sup>	1672 cm <sup>2</sup>	3032 cm <sup>2</sup>

Hand operated pneumatically controlled spring park brake acting on drive axle

### STEERING

Recirculating ball screw type steering box with hydraulic power assist  
Adjustable tilt and telescopic type column with steering lock and 460mm wheel

**Variable steering gear ratio:** Between 18.8 : 1 and 16.1 : 1

### WHEELS AND TYRES

Number and size of tyre:	Front	Rear
- single	235/75R 17.5 132/130M	
- dual		235/75R 17.5 132/130M

See Options for alternative tyre size

Pressed steel disc wheel, 1 piece rim, 6.75 x 17.5 131 offset-10TCS, 6 stud  
One spare wheel and tyre mounted on carrier (STC) at the rear of chassis

### AXLES

**FRONT** **NISSAN DIESEL FA35**  
Drop forged steel "I" section beam, reverse "ELLIOT" type  
**Front axle capacity:** 3,700 kg \*Refer to Load Rating summary for max permissible load

**REAR** **NISSAN DIESEL RS55**  
Fully floating pressed steel banjo type housing, single drive type  
**Final reduction gear:** Single reduction, hypoid gear  
**Final reduction gear ratio:** 4.111  
**Rear axle capacity:** 7,500 kg \*Refer to Load Rating summary for max permissible load

### SUSPENSION

**FRONT**  
Taper leaf spring with anchor at front and shackle at rear  
**Width x length:** 70 x 1,300 mm  
**The number of leaves:** 3  
**Spring constant:** 264N/mm (26.9 kg/mm)  
**Shock absorbers:** Telescopic double acting

**REAR**  
Semi-elliptic leaf spring and helper with anchor at front and shackle rear  
**Width x length:** Main: 70 x 1300mm Helper: 70 x 980mm  
**The number of leaves:** Main: 7 Helper: 7  
**Spring constant (Total):** 985 N/mm (100.4 kg/mm)  
**Shock absorbers:** Telescopic double acting

### LOAD CAPACITY SUMMARY

	235/75R 17.5 tyres		225/90R 17.5 tyres	
	Front(kg)	Rear(kg)	Front(kg)	Rear(kg)
<b>Axle capacity</b>	3700	7500	3700	7500
<b>Steering / Suspension Capacity</b>	3600	7500	3600	7500
<b>Tyre capacity</b>	3700	7500	3600	6800
<b>Max capacity (limit kg)*</b>	3600	7500	3600	6800

Note: Based on nominated tyres and standard springs

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## CAB

Forward control, spring suspended cab with shock absorbers  
Torsion bar cab tilt system  
Front opening inspection bonnet  
Air dam front bumper

### Standard Equipment

Overhead console with driver and passenger sunvisors  
24v Cigarette lighter / power supply with 2 ash trays  
Large On/Off/Door interior light  
Double arm, 2-spnd wipers with intermittent operation and windscreen washers  
LH and RH split mirrors (Flat / Spot)  
LH down spot mirror  
Electric horn, reverse warning light and alarm  
3 occupant seats - 2 outer seats with retractable seat belts and a flat folding centre seat with adjustable lap belt.  
Multi adjustable air suspended driver's seat  
ADR42/04 compliant sleeper bunk with mattress (Stationary sleeping only)  
Sleeper cab curtain rails with curtains  
Power operated driver and passenger windows  
Remote operated keyless central locking  
Multi speed air conditioning  
AM/FM radio with CD player  
Cruise control - Stalk mounted  
Halogen multi reflector headlamps  
Front bumper mounted (ADR49/00) integrated driving lights  
Roof mounted clearance lights (ADR49/00)  
2 centre dashmounted cup holders  
3 DIN sized compartments for accessory fitment

## FRAME

Ladder, Channel type chassis construction

**Width:** 860mm  
**Height x width x thickness:** 234 x 70 x 7 mm  
**Material:** Pressed carbon steel

	Tensile	Yield	Modulus
	45kg/mm <sup>2</sup>	30kg/mm <sup>2</sup>	Refer body manual

## INSTRUMENTS

Dash design integrates an array of instruments, warning / informational lights and audible tones

## FACTORY OPTIONAL EQUIPMENT (Indent order only)

Paint colours  
Multi leaf front springs 244N / mm (24.9 kg/mm) – 3800kg Capacity  
Front stabilizer bar  
Large centre console (Replaces centre seat)  
90A Alternator - (E wheel base only)  
Electronic engine governor control  
Electronic transmission PTO control  
High torque transmission PTO output 343Nm @ 100% engine speed  
225/90R 17.5 tyres - (6.00 x 17.5 - 135mm offset 10TCS 6stud)  
- with 4.333 diff (except E wheelbase)  
225/90R 17.5 tyres - (6.00 x 17.5 - 135mm offset 10TCS 6stud)  
- with 4.555 (E wheelbase only)  
ADR65/00 100km/h speed limiter - Dealer fit Option  
Rear Engine PTO (225Nm @ 100% engine speed continuous operation) - Dealer fit Option  
Rear Engine PTO (343Nm @ 72% engine speed continuous operation) - Dealer fit Option

## PERFORMANCE (Calculated)

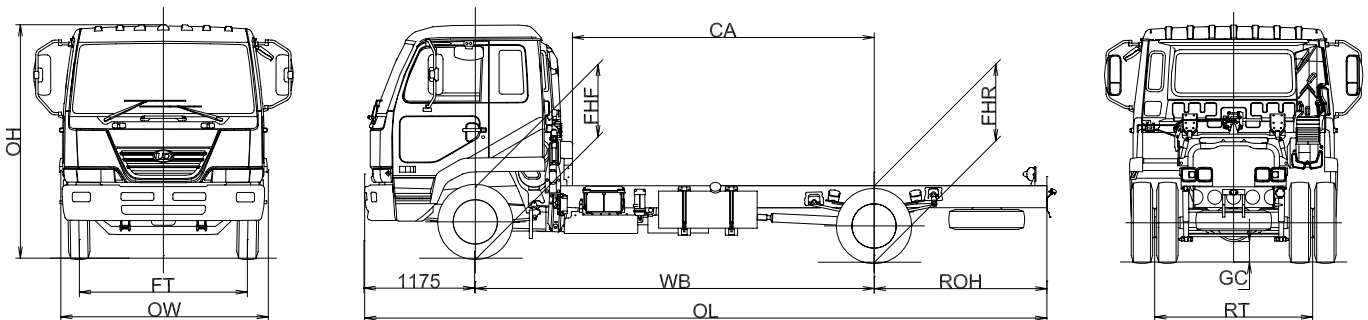
	4.111 diff ratio with 235/75R 17.5 tyres	4.333 diff ratio (F, K & L) with 225/90R 17.5 tyres	4.555 diff ratio (E only) with 225/90R 17.5 tyres
<b>Max. speed:</b>	N/A	N/A	N/A
<b>Gradeability 1st gear (Calculated):</b>	44.0% @ 10,400kg	43% @ 10,400kg	45.2% @ 10,400kg
<b>Gradeability 6th gear (Calculated):</b>	4% @ 10,400kg	3.8% @ 10,400kg	4.1% @ 10,400kg
<b>Est. RPM @ 100km/h:</b>	2119rpm	2298rpm	2416rpm

## GENERAL SPECIFICATIONS (approx.)

Wheel Base	Weight (kg)				
	GVM*	GCM	FA <sup>1</sup>	RA <sup>1</sup>	Total Tare <sup>1</sup>
<b>E</b>	10400	14900	2200	1220	3420
<b>F</b>	10400	14900	2210	1230	3440
<b>K</b>	10400	14900	2230	1250	3480
<b>L</b>	10400	14900	2260	1270	3530

Dimensions (mm)											
WB	OL	OW	OH <sup>2</sup>	FT	RT	ROH	CA	GC <sup>2</sup>	FHF <sup>2</sup>	FHR <sup>2</sup>	Turn Radius Kerb to Kerb
3770	6665	2200	2515	1780	1675	1620	2740	185	730	850	5990
4230	7335	2200	2515	1780	1675	1830	3200	185	730	850	6720
4830	8235	2200	2515	1780	1675	2130	3800	185	730	850	7670
5150	8775	2200	2515	1780	1675	2350	4120	185	730	850	8180

<sup>1</sup>Weight estimated including fluids (not fuel) and STC and spare wheel, excludes tools and driver. <sup>2</sup>Based on vehicle with standard 235/75R 17.5 front and rear tyres. Add 23mm for 225/90R17.5 tyres.



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\*Rated GVM and axle capacities are subject to federal, state and Territory legal requirements.

