

# CM180

**400 SERIES**

## GROSS VEHICLE WEIGHT:

10,600 kg

## GROSS COMBINATION WEIGHT:

15,000 kg



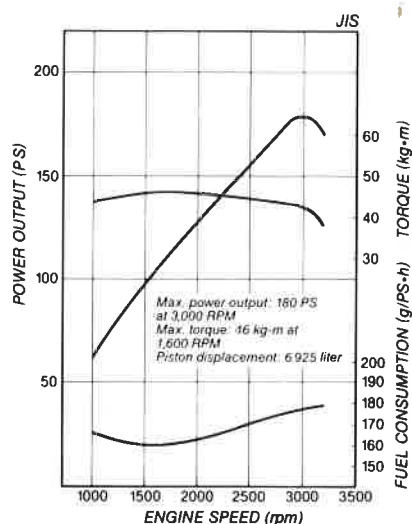
## ENGINE SPECIFICATIONS

### ENGINE

Nissan Diesel FE6B  
4 stroke direct injection  
Displacement 6925 cc (423 cu in)  
Bore and stroke 108 mm x 126 mm (4.25 in x 4.96 in)  
Maximum output JIS D1001 180 PS (133 kW) at 3000 rpm  
Maximum torque 451 Nm (46 kgm) at 1600 rpm  
On load max rpm 3200 rpm  
Compression ratio: 18.0 : 1  
Oil sump capacity: 12 litres (2.64 Imperial Gallons)  
Oil filtration by: Full flow paper element  
Air Cleaner: Paper element type  
Air intake: Snorkel type at rear of cab.

### ENGINE COOLING SYSTEM

Radiator: Corrugated fin type  
Pump: Centrifugal  
Header expansion tank fitted.  
Temperature control maintained by wax pellet type thermostat  
Lubricating oil cooler fitted for engine oil temperature control  
Fan: Mounted on viscous hub.



## DRIVELINE SPECIFICATIONS

### CLUTCH

Nissan Diesel CL710 finger type  
Clutch diameter 350 mm (13.8 in)  
Lining Area: 582 cm<sup>2</sup> each side  
Clutch operation: Booster assisted.

### REAR AXLE

Nissan Diesel RS65-7  
Factory rated at 7,000 kg

### DIFFERENTIAL

Single reduction  
Ratio 5.285 : 1.

### PERFORMANCE

Maximum speed: 116 km/h  
Gradeability in first gear on paved road at standard specifications with GVW of 10,600 kg: sin 0.3515 = 20 degrees 36 minutes.

### GEARBOX

Nissan Diesel MLS61A  
Synchromesh on 2nd to 6th.

### GEAR RATIOS

1st	7.173	2nd	4.304	3rd	2.459	4th	1.541	5th	1.00
6th	0.790	Reverse	6.536						

## ELECTRICAL & FUEL SPECIFICATIONS

### ELECTRICAL EQUIPMENT

24 volt negative earth  
Batteries: 2 x 12 volt 70 Ahr  
Starter Motor: 24v 4.5 kW  
Alternator: 24V 35A.

### FUEL SYSTEM

Fuel tank capacity: 100 litres  
Injector pump: Bosch A type in line plunger  
Force lubricated by engine oil from engine gallery  
Injectors: 5 hole flange type  
Governor: All speed RFD.



**NISSAN DIESEL**

## CHASSIS SPECIFICATIONS

### CHASSIS

Ladder type channel section side rail  
Dimension: 234 x 70 x 7 The chassis's ROF is tapered from the rear axis  
Material: Hot rolled steel of 45 kg/mm<sup>2</sup> tensile strength.

### SUSPENSION

Front: 1300 x 70 with double acting shock absorber  
Rear: 1300 x 70 with 980 x 70 helper.

### BRAKES

Air/Hyd brakes  
Dual Air Line system separates front and rear axles  
Spring parking brakes fitted to rear axle  
Lining dimensions: f: 320 x 110  
r: 320 x 135  
Emergency Brake: spring brakes acting on rear axle  
Auxilliary braking system: exhaust shutter type.

### FRONT AXLE

Nissan Diesel FA35 drop forged "I" beam type  
Factory rated at 4000 kg.

### STEERING

Nissan Diesel recirculating ball integral power assisted steering box  
Power assistance supplied by gear driven hydraulic pump  
Reduction ratio: 27.7  
Turning radius: 7.8 m  
Tilt and telescopic steering column  
Soft grip urethane steering wheel.

### ROAD WHEELS

Pressed steel disc of Budd type to JIS specification  
6 stud 135 mm offset 6.00 GS x 16  
Spare wheel supplied fitted with running tread tyre.

### TYRES

Front: Bridgestone 825R16 steel belted radial with running tread  
Rear: Bridgestone 825R16 steel belted radial with running tread  
Tyres to owner's specification may be fitted at cost.

## CAB SPECIFICATION

### CAB

Forward control, all steel welded construction, tilting, fully trimmed "Semi-wide" sleeper cab with bunk and tinted laminated glass windscreen.  
Colour: Manufacturers white.

### WARNING DEVICES

Dash lights include Low oil pressure warning, Battery charge warning, High beam and Turn signal indicator, Exhaust brake indicator, Hazard warning indicator, Induction air heater indicator, Over heat/low water warning, Low brake fluid warning, Parking brake warning.  
Audible warning devices: over rev, overheat, vehicle reversing, low air pressure, low brake fluid level.

### CAB INTERIOR

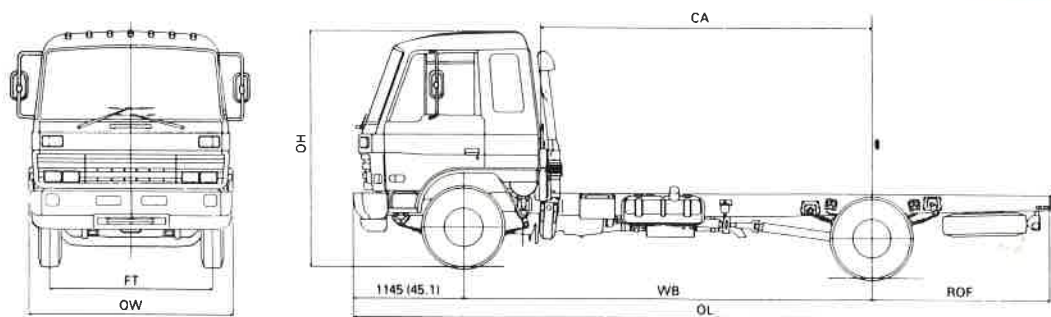
Drivers seat: Cloth trimmed suspension seat with adjustments for height, recline, fore/aft and suspension stiffness. An adjustable head rest is also included.  
Passengers seat: One vinyl trimmed fixed central seat with storage/food tray attached to back rest. One cloth trimmed fixed seat with reclining adjustment.  
Heater/demister: 13 vent, 3 mode operation with 4 speed fan  
Windscreen wipers: Two arm dual speed with variable intermittent  
Windscreen washers: Two twin jet nozzles  
Sun visor: driver and passenger  
Instruments: speedometer with odometer and trip meter, tachometer, fuel gauge, water temp gauge, dual reading air gauge, clock.

## N.Z. STANDARD EXTRAS

Tool kit  
AM/FM radio with twin speakers  
Cigarette lighter  
Hazard warning system  
Halogen head lamps  
Yellow fog lamps  
Western type rear view mirrors  
Key engine stop

Storage compartments in both doors, back of central passenger's seat, passenger's side of dash (lockable), roof lining and under passenger's side of the bunk.  
Cornering lamp.  
Interior lamps: Main courtesy lamp, stairwell lamp, separate adjustable map reading lamp, bunk lamp.  
Side air deflectors  
Under Bumper Air Dam

## DIMENSIONS



DIMENSIONS mm										TARE WEIGHTS kg.		
MODEL	WHEEL BASE	OL	ROF	CA	OH	OW	FT	RT	FRAME WIDTH	FRONT AXLE	REAR AXLE	TOTAL
CM180	4530	7750	1975	3735	2445	2140	1705	1605	790	1940	1160	3100

\* Weights obtained by weighing a vehicle on a N.Z. Govt. certified weigh bridge with 100 litres of fuel and spare tyre. Please note that actual weights will vary from unit to unit.