

# General Specification of Large 10 Wheels Truck

## Model: CWM454M Turbo/Intercool 320 PS



### Engine

Manufacturer and Model	Nissan Diesel Motor Model PF6TA-21	
Type	Diesel engine 4 cycle, 6 in-line cylinders, Turbo Intercool, Direct-injection, Water cooled	
Total Piston Displacement	12,503 cc	
Bore x Stroke	133 x 150 mm.	
Max.Output	JIS Gross	320 PS at 2,100 rpm.
	ECE Net.	231 kW at 2,100 rpm.
Max.Torque	JIS Gross	135 kg-m at 1,200 rpm.
	ECE Net.	1,310 N-m at 1,200 rpm.
Max.Speed	2,300 rpm.	
Compression Ratio	16.5:1	
Governor	Electronic governor, model "RED III"	
Lubrication	Forced feed by gear pump	
Steering	Recirculating ball screw type with hydraulic power assistance, adjustable, tilt-telescopic	

### Brake and Others

Service Brake	Air over hydraulic, Dual line system
Parking Brake (Hand Brake)	Mechanically operated, Internal expanding, Acting on drum at rear of gearbox
Retarder	Exhaust Brake
Fuel Tank	200 liters
Wheel and tire	Rim 7.00T x 20 Tire 10.00 x 20-14PR

### Electrical Equipment

Electrical system	Head light 2 lamps, Clearance lights, Turn signal light, Back up light, License plate light, Stop/tail lights, Hazard warning flasher, Fog lights, Interior light, Reading light and Engine start switch
Battery	12 Volt x 2, 100 Ah.
Starting Motor	24 Volt, 6 kW
Alternator	24 Volt-40 amp.

### Gear Box (Transmission)

Manufacturer and Model	Nissan Diesel Motor Model MTS60G	Nissan Diesel Motor Model MRT22A		
	6 forward speeds, 1 reverse, Synchromesh on 2nd to 6th, Constantmesh on 1st and reverse gear	12 forward speeds, 2 reverse, Synchromesh on 1st to 12th, Constantmesh on reverse gear Hi-Low ratio 0.811		
Gear Ratios		<u>Low</u>	<u>Hi</u>	
	1)	6.326	10.729	8.701
	2)	4.139	6.575	5.332
	3)	2.490	3.649	2.959
	4)	1.567	2.236	1.813
	5)	1.000	1.464	1.187
	6)	0.731	1.000	0.811
Reverse	6.490	9.563	7.755	
Final Reduction Gear Ratio	Single reduction hypoid gear	Single reduction hypoid gear		
Clutch	Dry single plate, Hydraulically operated clutch release mechanism with air assisted booster			

### Cab and Standard Equipment

Type	Steel weld construction, Tilt cab with openable front grill
Windshield	Multi-layer safety glass, Laminated type
Rear View Mirrors	Large size with under view mirrors
Windshield Wiper	Triple, Intermittent 3-speed electric wipers with windshield washer
Instrument Panel	Speedometer, Tachometer, Odometer, Air pressure gauge, Water temperature gauge, Fuel level gauge
Warning Lights	Low engine oil pressure indicator, Turn signal indicator, Hazard warning flasher, Head light high beam indicator, Battery charge warning indicator, Parking brake indicator, Exhaust brake indicator, Engine coolant over-heating, Low air pressure indicator, Low brake fluid level indicator, Cab lock indicator, Air filter clog indicator
Audible Equipment	Radio (AM-FM) - Cassette tape Digital system with speaker
Seats	Made of high quality vinyl, Adjustable back angle, Fore and aft position, Driver's weight adjustable suspension type
Safety Belt	3 points lock type for driver and assistance seat 2 points lock type for middle seat

### Chassis

Frame	Channel ( C section), Ladder type	
Side Member Main Section	300 x 90 x 8 mm. (Height x Width x Thickness) with reinforcement 284 x 75 x 6 mm.	
Front Axle	Reverse Elliot I-Beam	
Rear Axle	Fully floating banjo type, Tandem drive axles with DF lock	
Suspensions	Front	Semi-elliptic leaf springs with shockabsorbers
	Rear	Trunnion mounted suspension with leaf springs and 6 rods

**Registered Truck Model:** CWM454MHRA

**Special Equipment:** PTO is the standard equipment for CWM454M/12 only

**Remarks:** All details and pictures which shown in this leaflet may be option equipment and different from standard chassis. Nissan Diesel (Thailand) reserves the right to change any specification without notice.

Safety glass, 2 Layer,

Laminated type,

Sun filter coating



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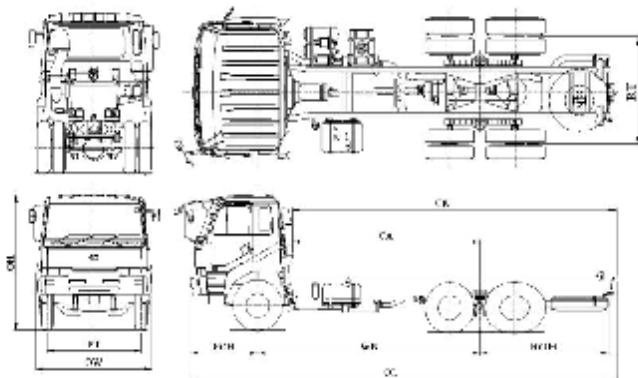
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# CWM 320 PS



Performance	CWM454M/6	CWM454M/12
Maximum Speed (Km./Hr.)	108	105
Minimum Turning Radius (M.)	8.4	8.4
Gradeability (Tan θ)	0.424	0.783
at Gross Vehicle Weight (Kg.)	21,000	21,000

Weight	CWM454M/6	CWM454M/12
Chassis with cab (Kg.)	7,350	7,460
On front wheels (Kg.)	3,700	3,760
On rear wheels (Kg.)	3,650	3,700
Maximum GVW (Manufacturer)	26,000	26,000

**General Dimension (MM.)**

Model	WB	OL	OW	OH	FT	RT	CA	ROH	CE
CWM454M/6	4,800	8,665	2,490	2,820	2,020	1,860	4,050	2,300	6,350
CWM454M/12	4,800	8,665	2,490	2,820	2,020	1,860	4,050	2,300	6,350