

GW400

Long Wheelbase – Air Suspension

GVM 26,000kg* GCM 50,000kg

Specifications

ENGINE

Make and model:	NISSAN DIESEL GE13TB
4 cycle, direct injection, overhead cam 4 valve, water cooled, in-line diesel engine with turbocharger and intercooler	
Number of cylinders:	6 cylinders
Bore x stroke:	136 mm x 150 mm
Total piston displacement:	13,074 cc
Max. output (ECE Net):	287 kw (390 PS) at 1,800 rpm
Max. torque (ECE Net):	1,716 Nm (175 kgm) at 1,100 rpm
Max. governed speed:	1.800 rpm
Compression ratio:	17.5 : 1
Auxiliary brake:	Exhaust + Engine compression brake (EE brake)

Lubrication system:

Forced feed by gear pump, Flat tube type oil cooler, Full flow and by-pass oil filter with replaceable element, 41 litre capacity (add 3 litres for RE-PTO)

Air system:

Water cooled reciprocating type; Twin cylinder air compressor with oil mist separator and air dryer

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 with 720mm dia 9 blade cooling fan

FUEL AND INTAKE SYSTEM

Ultra high pressure unit injector fuel injection system
 Replaceable primary and secondary fuel filters
 400lt capacity aluminium fuel tank with lockable cap mounted on LHS
 Primary and secondary dry paper element air filters
 High mounted LHS air intake

EXHAUST AND EMISSION CONTROL

Emission standard – ADR80/02 (JAPAN 05LT – Euro 5 emission levels)
 Primary – Selective catalytic reduction (SCR)
 55lt stainless steel AdBlue tank with lockable cap mounted on LHS
 Secondary – Electronic controlled selective cooled EGR
 RHS under chassis mounted muffler/cat with horizontal exhaust discharge

ELECTRICAL

24 volt, negative ground system
 2 x 12 volt 150 Ah batteries mounted on the right hand side of frame
 24 volt – 60 amp. with built-in IC regulator
 24 volt trailer wiring supplied at rear of chassis

CLUTCH

Dry twin plate, hydraulically operated clutch release mechanism with air assistance
Diameter of clutch disc: 400mm

TRANSMISSION

Make and model: Eaton Fuller RTLO-14913A
 Thirteen (13) forward speeds and two (2) reverse, with constant mesh and synchromesh on range shift. Mechanical remote control operated shift. Integrated oil pump and cooler with 13 litre oil capacity. PTO Openings – Top RHS and Bottom

Gear ratios:	(Low)	Gear	(Low)	Gear	(High)
	12.31	Low	2.29	5th	1.95
	8.64	1st	1.62	6th	1.38
	6.11	2nd	1.17	7th	1.00
	4.33	3rd	0.86	8th	0.73
	3.23	4th	13.22	Rev. L	3.50

BRAKES

Full WABCO air brake system; dual air line system; automatic adjusting; taper roller; internal expanding leading and trailing shoe type with 4 channel ABS and traction control (ASR)

Air pressure:	7.2 – 8.5 kg/cm ²		
	Front	Rear	Total
Drum diameter:	410mm	410mm	
Lining area:	2,984cm ²	7,296cm ²	10,280cm ²

Hand operated pneumatically controlled spring park brake acting on both drive axles
 Progressive trailer brake hand controller with rear of chassis air connections

STEERING

Recirculating ball screw type steering box with hydraulic power assist
 Adjustable, tilt and telescopic type column with steering lock – 460mm steering wheel
Steering gear ratio: 22.42 : 1

WHEELS AND TYRES

Number and size of tyre:	Front – single	11 R 22.5 – 16PR 148/145L
	Rear – dual	11 R 22.5 – 16PR 148/145L

See Options for alternative tyre sizes
 Pressed steel disc type wheel, 1 piece rim, 8.25 x 22.5, offset 165mm, ISO 10 studs
 One spare wheel and tyre mounted on lockable carrier (STC) at the rear of chassis

AXLES

FRONT **NISSAN DIESEL FF85**
 Drop forged steel "I" section beam, reverse "ELLIOT" type
Front axle capacity: 8,500kg *Refer to Load Capacity Summary for max permissible load

REAR **NISSAN DIESEL RW1A**
 Fully floating pressed steel banjo type housing, in-line tandem type power divider with remote operated lock up
Final reduction gear: Single reduction, hypoid gear
Final reduction gear ratio: 4.625
Rear axle capacity: 23,600kg *Refer to Load Capacity Summary for max permissible load

SUSPENSION

FRONT
 Heavy duty long taper leaf spring with anchor at front and shackle at rear
Width x length: 90 x 1,550mm
The number of leaves: 4
Spring constant: 369 N/mm (37.6 kg/mm)
Shock absorbers: Telescopic double acting
Stabiliser bar: Fitted

REAR
 8 bag full floating Nissan Diesel air suspension with V type control rods
 21,000 kgs Ground capacity (RFS compliant)
Stabiliser bar: One fitted to each axle
Shock absorbers: Tuned double acting telescopic
 WABCO remote electronic, programmable and adjustable height control

LOAD CAPACITY SUMMARY

	Front (kg)	Rear (kg)
Axle capacity	8,500	23,600
Steering / Spring capacity	6,500	21,000
Tyre capacity	6,300	23,200
Max capacity (limit kg)*	6,300	21,000

Note: Based on 11R 22.5 front and rear tyres and standard springs

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CAB

Forward control, full floating air suspension cab with shock absorbers
 ECE – R29 compliant
 Electric-Hydraulic cab tilt system with 65 deg tilt
 Front opening inspection bonnet
 3 piece air dam front bumper
 90 deg opening doors

Standard Equipment

Overhead centre console with driver and passenger sunvisor and overhead tray
 24v cigarette lighter / power supply + 2 ash trays
 Centre seat with seat belt
 Large fluorescent interior light
 Driver and passenger On / Off / Door interior lights
 Triple arm, 2-speed wipers with variable intermittent and integrated washers
 Heated and electrically operated LH and RH main mirrors
 Passenger side, rear and downward spot mirrors
 Electric horn, reverse warning light and alarm
 3 occupant seats with seat belts (outer seats retractable belts)
 Multi adjustable air suspended driver's seat with auto height control
 Flat folding assistant seat with lift up base
 ADR42/04 compliant sleeper bunk with mattress (Suitable for "two up driving")
 Full cab curtain rails with curtains (Covers all windows)
 Power operated driver and passenger windows
 Remote operated keyless central locking
 Fully automatic electronic climate control air conditioning
 Heated / cooled storage box and 2 centre drink holders
 AM/FM radio with CD player
 Tachograph (7 day)
 Cruise control – stalk mounted
 Halogen multi reflector headlamps
 2 bumper mounted fog lamps (ADR49/00)

Standard Equipment *continued*

Roof mounted clearance lights (ADR49/00)
 2 door cup holders
 2 DIN sized compartments for accessory fitment
 Tinted windows
 Chassis mounted tool box fitted with key mounted on RHS

FRAME

Ladder, channel type single skin chassis construction

Width: 840mm
Height x width x thickness: 298 x 90 x 7 mm
Material: Pressed carbon steel
Chassis data: Tensile Yield Modulus
Strength: 55kg/mm² 48kg/mm² Refer Body Manual
 UD Trucks website

INSTRUMENTS

Dash design integrates an array of instruments and warning / informational lights
 Individual warning tones
 A Drivers Information System displaying useful vehicle data including date / time, oil pressure, voltmeter, trip information along with service intervals for engine, transmission and differentials

FACTORY OPTIONAL EQUIPMENT (Indent order only)

Paint colours
 80Amp alternator with built-in IC regulator
 275/70R 22.5 tyres – with 4.333 diff ratio – 6,300kg capacity on front axle
 Large centre console (Replaces centre seat)
 Electronic engine governor control
 Electronic transmission PTO control
 Rear engine PTO (441 Nm torque capacity @ 100% engine speed)
 High ground clearance front bumper

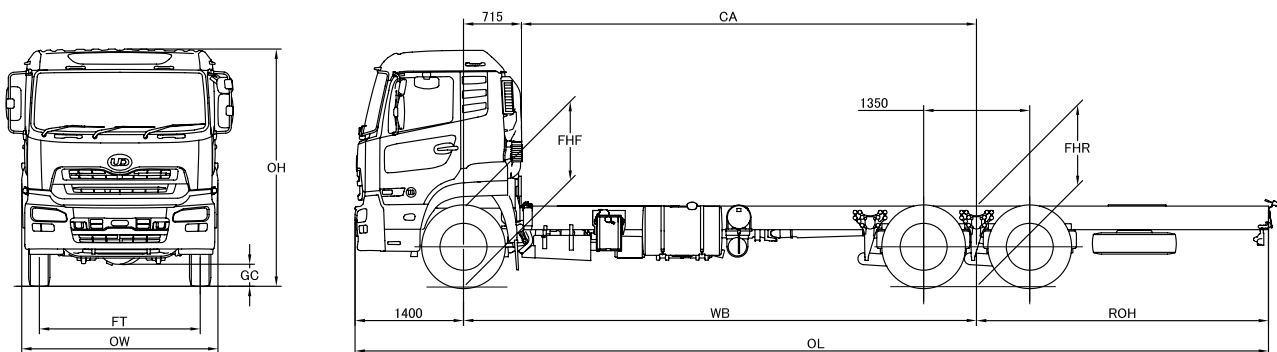
PERFORMANCE (Calculated)

	4.625 diff ratio with 11R 22.5 tyres	4.333 diff ratio with 275/70R 22.5 tyres
Max. speed:	100km/h (speed limited – ADR65/00)	100km/h (speed limited – ADR65/00)
Gradeability 1st gear (Calculated):	35.1% @ GCM (50,000kg)	36% @ GCM (50,000kg)
Gradeability 13th gear (Calculated):	1.1% @ GCM (50,000kg)	1.2% @ GCM (50,000kg)
Est. RPM @ 100km/h:	1773rpm	1819rpm

GENERAL SPECIFICATIONS (approx.)

Wheel Base	Weight (kg)					Dimensions (mm)												
	GVM*	GCM	FA ¹	RA ¹	Total Tare ¹	WB ³	OL	OW	OH ²	FT	RT	ROH	CA	GC ²	FHF ²	FHR ²	FHR ² Dumped	Turn Radius Kerb to Kerb
W	26,000	50,000	4,560	3,925	8,485	6,500	11,710	2,490	2,962	2,040	1,840	3,700	5,785	225	985	1,031	974	10,100

¹Weight estimated includes fluids (not fuel or AdBlue) and STC and spare excludes tools and driver. ²Based on vehicle with standard steel wheels with 11R 22.5 front and rear tyres. Subtract 45mm for 275/70R 22.5 tyres.
³Due to rear suspension torsional loadings the wheelbase of this model must not be shortened to less than 5500mm.



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*Rated GVM and axle capacities are subject to Federal, State and Territory legal requirements.

