

UD TRUCKS

GK400

Air Suspension

GVM 16,500kg* GCM 36,000kg** B-Double Option



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:	136mm x 150mm
Total piston displacement:	13,074 cc
Max. output (ECE Net):	287 kw (390 PS) at 1,800 rpm
Max. torque (ECE Net):	1,716 N.m (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
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)
 33lt stainless steel AdBlue tank with lockable cap mounted on LHS
 Secondary – Electronic controlled selective cooled EGR
 LHS chassis mounted muffler/cat with horizontal exhaust discharge under truck

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 cab

CLUTCH

Dry single plate, hydraulically operated clutch release mechanism with air assistance interfaced with ESCOT transmission

Diameter of clutch disc: 430mm

TRANSMISSION

Make and model: Nissan Diesel APR90A
 Semi automated manual transmission (ESCOT 2) with sequential shift. Nine (9) forward and two (2) reverse gears. Synchromesh 2nd to 9th and constantmesh 1st gear PTO opening - LHS 457Nm @ 100% engine speed (nominal ratio)

Gear ratios:	Gear	Gear	
	1st	10.16	6th 1.94
	2nd	6.58	7th 1.38
	3rd	4.67	8th 1.00
	4th	3.39	9th 0.75
	5th	2.54	Rev. L 10.16
			Rev. H 3.00

BRAKES

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

Air pressure:	7.2 – 8.5 kg/cm ²		
	Front	Rear	Total
Drum diameter:	410mm	410mm	
Lining area:	2,984cm ²	3,648cm ²	6,632cm ²

Hand operated pneumatically controlled spring park brake acting on steer and drive axles. Progressive trailer brake hand controller with rear of cab 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 295 / 80R 22.5 152/148M
Rear – dual 11 R 22.5 – 16PR 148/145L
 Pressed steel disc type wheel, 1 piece rim, 8.25 x 22.5, offset 165mm, ISO 10 studs
 One lockable spare wheel and tyre on carrier mounted on RHS 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 R01AA**
 Fully floating pressed steel banjo type housing, single drive type
Final reduction gear: Single reduction, hypoid gear
Final reduction gear ratio: 4.333
Rear axle capacity: 11,500kg *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 1,800mm
The number of leaves: 3
Spring constant: 292 N/mm (29.8kg/mm)
Shock absorbers: Telescopic double acting
Stabiliser bar: Fitted

REAR
 4 bag full floating Nissan Diesel air suspension with V type control rod
 10,000 kgs Ground capacity (RFS compliant)
Stabiliser bar: Fitted
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	11,500
Steering / Spring capacity	6,500	10,000
Tyre capacity	7,100	11,600
Max capacity (limit kg)*	6,500	10,000

Note: Based on 295/80R 22.5 front and 11R 22.5 rear tyres and standard springs

GK400 Air Suspension

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 panel
 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
 Large centre console
 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
 2 occupant seats with retractable seat 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
 Rear facing work light mounted on rear of cab
 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

FRAME

Ladder, channel type double skin chassis construction

Width: 840mm
Height x width x thickness: 275 x 90 x 7 mm + 261 x 82 x 3.2 mm
Material: Pressed carbon steel frame
Chassis data: Tensile Yield Modulus
Strength: 55kg/mm² 48kg/mm² Refer Body Manual
 UD Trucks website
Turntable angles: Fitted

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 and service intervals

FACTORY OPTIONAL EQUIPMENT (Indent order only)

Paint colours
 80Amp alternator with built-in IC regulator
 11R 22.5 16PR front tyres
 Centre seat with lap belt (Replaces centre console)
 Electronic engine governor control
 Electronic transmission PTO control
 High torque transmission PTO 490Nm (50kgm) @ 93% engine speed
 High ground clearance front bumper
 B-Double Rating – (requires 4.33:1 diff) – Dealer Option

PERFORMANCE (Calculated)

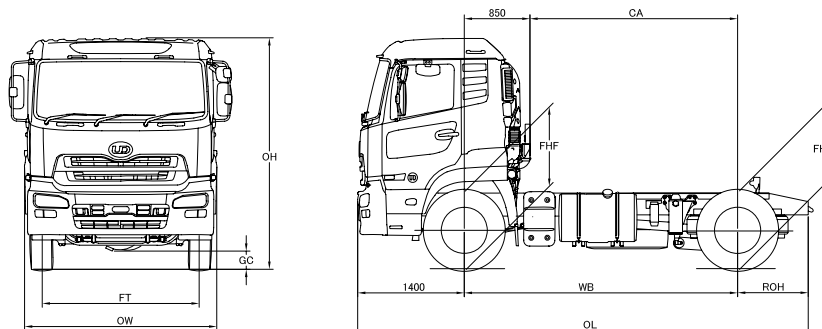
Max. speed: 100km/h (speed limited – ADR65/00)
Gradeability 1st gear (Calculated): 37.8% @ 36,000kg
Gradeability 9th gear (Calculated): 1.7% @ 36,000kg
Est. RPM @ 100km/h: 1592rpm

4.333 with 11R 22.5 tyres

GENERAL SPECIFICATIONS (approx.)

Wheel Base	Weight (kg)					Dimensions (mm)												
	GVM*	GCM**	FA ¹	RA ¹	Total Tare ¹	WB	OL	OW	OH ²	FT	RT	ROH	CA	GC ²	FHF ²	FHR ²	FHR ² Dumped	Turn Radius Kerb to Kerb
D	16,500	36,000	4,540	1,985	6,525	3,530	5,900	2,490	2,965	2,040	1,840	914	2,815	235	964	1,010	940	5,800

*Weight estimated includes fluids (not Diesel fuel or AdBlue) and STC and spare excludes tools and driver. ²Based on vehicle with standard steel wheels with 295/80R 22.5 front and 11R 22.5 rear tyres.



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*Rated GVM and axle capacities are subject to Federal, State and Territory legal requirements. **Higher GCM on engineering application, see your UD Trucks dealer.

