

TYPICAL APPLICATIONS



Specialist applications    Traybody    Pan/tautliner    Tipper and trailer    Tilttray

PERFORMANCE (Calculated)

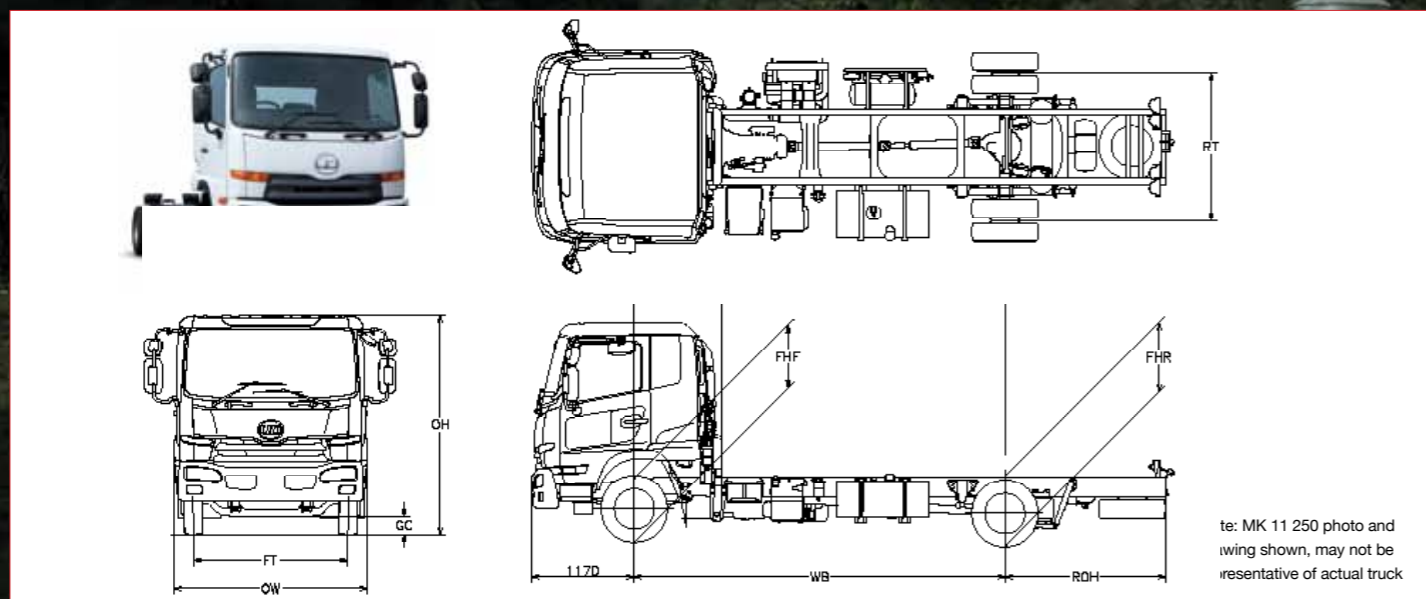
	6 speed MLS manual with 235/75R 17.5 tyres 4.111 diff ratio	4.555 diff ratio	5 speed Allison automatic with 235/75R 17.5 tyres 4.111 diff ratio
Max road speed	126km/h	114km/h	126km/h
Gradeability 1st gear	46.4% @ 11000kg	52.8% @ 11000kg	41.0% @ 11000kg
Gradeability top gear	3.5% @ 11000kg	3.9% @ 11000kg	3.5% @ 11000kg
Estimated rpm @ 100km/h	2059rpm	2281rpm	2059rpm

GENERAL SPECIFICATIONS (Approximate)

Variant	Mass (kg)						Vehicle Dimensions (mm)														UD order code
	Wheelbase code	GVM <sup>1</sup>	GCM <sup>2</sup>	FA <sup>1</sup>	PA <sup>1</sup>	Total Tare <sup>1</sup>	WB	OL	OW	OH <sup>2</sup>	FT	RT	ROH	CA	GC <sup>2</sup>	FHF <sup>2</sup>	FHR <sup>2</sup>	FHR <sup>2</sup> (lowered height)	Turning radius (kerb to kerb)		
UD - leaf	6 speed	E	11000	15500	2400	1290	3690	3770	6560	2200	2526	1784	1680	1620	2778	190	758	844	N/A	6000	MK11250E6L
		F			2395	1280	3675	4230	7230					1830	3238					6700	MK11250F6L
		K			2445	1285	3730	4830	8130					2130	3838					7500	MK11250K6L
		L			2475	1290	3765	5150	8670					2350	4158					8000	MK11250L6L
	Automatic	E	11000	15000	2360	1270	3630	3770	6560	2200	2526	1784	1680	1620	2778	190	758	844	N/A	6000	MK11250EAL
		F			2365	1260	3625	4230	7230					1830	3238					6700	MK11250FAL
		K			2415	1270	3685	4830	8130					2130	3838					7500	MK11250KAL
		L			2450	1270	3720	5150	8670					2350	4158					8000	MK11250LAL
HAS200 - air	6 speed	F	11000	15500	2390	1340	3730	4230	7230	2200	2526	1784	1680	1830	3238	190	758	800	760	6700	MK11250F6A
		K			2445	1345	3790	4830	8130					2130	3838					7500	MK11250K6A
		L			2475	1350	3825	5150	8670					2350	4158					8000	MK11250L6A
		N			2495	1370	3865	5500	9630					2960	4508					8500	MK11250N6A
	Automatic	F	11000	15000	2365	1320	3685	4230	7230	2200	2526	1784	1680	1830	3238	190	758	800	760	6700	MK11250FAA
		K			2415	1330	3745	4830	8130					2130	3838					7500	MK11250KAA
		L			2450	1330	3780	5150	8670					2350	4158					8000	MK11250LAA
		N			2465	1355	3820	5500	9630					2960	4508					8500	MK11250NAA

<sup>1</sup> Mass is an estimation only based on standard model, includes fluids (not diesel fuel or AdBlue) and STC and spare, excludes tools and driver.

<sup>2</sup> Based on vehicle with standard 235/75R 17.5 front and rear tyres.



te: MK 11 250 photo and wing shown, may not be representative of actual truck

WARRANTY

Standard warranty+	36 months/150000 kms	+ For details refer to your UD Trucks New Vehicle Warranty brochure Pub No. AUS000273
Cab corrosion warranty+	36 months/unlimited kms	++ Covers selected items only. For details refer to your UD Trucks Extended Protection Plan brochure Pub No. AUS000472
Extended warranty++	60 months/300000 kms	

NOTES: \*Rated GVM and axle capacities are subject to Federal, State and Territory legal requirements. For automatic models, the rated GVM and GCM is for On Highway applications ONLY, other applications require UD Trucks engineering approval. \*\*OPT higher GCM on manual models requires UD Trucks engineering approval. See your UD Trucks dealer.

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Issue date  
June 2012



# Condor MK II 250

SERIES

SPECIFICATIONS

GVM*	11000kg	Power	180kW @ 2500rpm
GCM*	15500kg – 6 speed 15000kg – automatic	Torque	716Nm @ 1400rpm
Opt GVM*	8000kg (on application)	Transmission	6 speed manual or 5 speed automatic
Opt GCM**	20000kg – 6 speed manual (on application)	Suspension	UD Trucks leaf or Hendrickson air bag



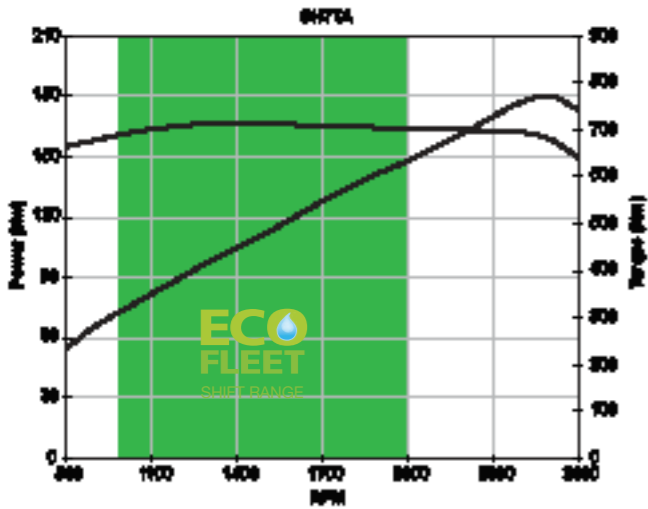
Note: MK 11 250 cab chassis shown - may not be representative of actual vehicle

ECO FLEET	SAFETY	FEATURES
SCR engine emission technology	SRS driver's air bag with seat belt pretensioner	Touch screen multimedia audio system with NAVTEQ satellite navigation
Class leading 50 litre AdBlue tank capacity	ECE-R29 Cab strength design	Bluetooth "hands free"
ADR80/03 compliant – Euro 5 emission standard	Air Over Hydraulic brake system with ABS	Cruise control
Automatic transmission with EcoFleet shift mode	Easy Hill Start (EHS) – manual models only	RE-PTO capability on all models
Newest Japanese MD-T cab with latest aerodynamic "low drag" performance	Electrically operated and heated mirrors	ADR42 compliant sleeper cab with mattress
	360° visibility (by using up to 3 optional cameras)	Custom factory cab paint option



SAVE MONEY AND THE EARTH  
ECO FLEET

ENGINE	
Make	UD Trucks
Model	GH7TA
Description	4 cycle, direct injection, diesel engine with overhead cam, 4 valves per cylinder, water cooled and intercooler with turbocharging system.
Cylinders	6 in-line
Total piston displacement	7013cc (7 litres)
Bore x stroke	110mm x 123mm
Compression ratio	17.5:1
Max. Power (ECE Net)	180kW (245ps) @ 2500rpm
Max. Power (JIS Gross est.)	187kW (254ps) @ 2500rpm
Max. Torque (ECE Net)	716Nm (528lb/ft) @ 1400rpm
Max. Torque (JIS Gross est.)	744Nm (548lb/ft) @ 1400rpm
Max. governed engine speed	2600rpm



Lubrication system	Forced oil feed by gear pump, flat tube oil cooler, full flow and bi-pass oil filters with replaceable elements and 17 litre capacity
Compressed air system	Water cooled reciprocating type, single cylinder air compressor with air dryer
Cooling system	Forced feed by centrifugal water pump, wax pellet type thermostat with bypass. Aluminium corrugated fin type radiator with cab front bonnet mounted reserve tank and a 600mm diameter 11 blade viscous coupling cooling fan.

FUEL AND INTAKE SYSTEM	
Injection type	Ultra high pressure common rail injection system
Filtration	Chassis mounted primary and engine mounted secondary
Capacity	200 litre steel tank with lockable cap mounted on LHS chassis
Air filtration	Primary dry paper element air filter on RHS under cab
Air intake	High mounted RHS air intake

EXHAUST AND EMISSION CONTROL	
Emission standard	ADR80/03 (Euro 5 emission levels)
Emission system	Selective Catalytic Reduction (SCR)
AdBlue capacity	50 litre polymer tank with lockable cap mounted on LHS
Exhaust system	RHS chassis mounted muffler/catalytic converter with horizontal rear facing exhaust discharge

ELECTRICAL	
Power	24 volt, negative ground system
Battery capacity	2 x 12 volt 120Ah batteries mounted on LHS chassis (RHS chassis E wheelbase only)
Alternator	130 amp with built in IC regulator

CLUTCH (manual models only)	
Make	UD Trucks
Description	Dry single organic plate with push type diaphragm
Disc diameter	350mm
Mechanism	Hydraulically operated with air assistance

TORQUE CONVERTER (automatic models only)	
Make	Allison
Model	TC221
Description	One state, three element, polyphase. Includes standard integral damper with lock-up function
Stall torque ratio	1.73:1

TRANSMISSION																			
6 SPEED MANUAL																			
Make	UD Trucks																		
Model	MLS63B																		
Description	Six forward speeds and one reverse, synchromesh 2nd to 6th gears. Non-synchro 1st and reverse																		
Shift type	Mechanically operated shift with air servo assist																		
Gear ratios	<table border="1"> <tr> <td>1st</td> <td>6.72</td> <td>4th</td> <td>1.44</td> <td>Rev</td> <td>6.12</td> </tr> <tr> <td>2nd</td> <td>4.03</td> <td>5th</td> <td>1.00</td> <td></td> <td></td> </tr> <tr> <td>3rd</td> <td>2.30</td> <td>6th</td> <td>0.74</td> <td></td> <td></td> </tr> </table>	1st	6.72	4th	1.44	Rev	6.12	2nd	4.03	5th	1.00			3rd	2.30	6th	0.74		
1st	6.72	4th	1.44	Rev	6.12														
2nd	4.03	5th	1.00																
3rd	2.30	6th	0.74																
PTO capability	LHS 147Nm @ 62% engine speed (nominal ratio)																		

5 SPEED AUTOMATIC																			
Make	Allison																		
Model	LCT2500																		
Description	Five forward speeds and one reverse. Fully automatic Allison Gen4 adaptive shift with Power and EcoFleet modes																		
Shift type	T-bar shifter with shift lock and overdrive buttons, cable operation																		
Gear ratios	<table border="1"> <tr> <td>1st</td> <td>3.51</td> <td>4th</td> <td>1.00</td> <td>Rev</td> <td>5.09</td> </tr> <tr> <td>2nd</td> <td>1.90</td> <td>5th</td> <td>0.74</td> <td></td> <td></td> </tr> <tr> <td>3rd</td> <td>1.44</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	1st	3.51	4th	1.00	Rev	5.09	2nd	1.90	5th	0.74			3rd	1.44				
1st	3.51	4th	1.00	Rev	5.09														
2nd	1.90	5th	0.74																
3rd	1.44																		
PTO capability	Transmission type drive with LHS and RHS openings 339Nm using one opening, or 542Nm total using both openings																		

FRONT AXLE AND SUSPENSION SYSTEM	
Axle make	UD Trucks
Description	Drop forged steel "I" section beam, reverse "ELLIOT" type
Suspension	Multi-leaf spring with anchor at front and shackle at rear
Dimensions (mm)	70mm x 1300mm
Number of leaves	8
Spring constant	244N/mm (24.9kg/mm)
Shock absorbers	2 telescopic double acting
Max. ground capacity	Refer to the <i>Load Capacity Summary</i> on Page 3

REAR AXLE AND SUSPENSION SYSTEM	
Axle make	UD Trucks
Type	Fully floating pressed steel banjo type housing with single drive
Gear type	Single reduction, hypoid gear
Final reduction ratio	6 speed manual – 4.111:1 (F-N) 4.555:1 (E) 5 speed automatic – 4.111:1

LEAF SUSPENSION	
Description	Semi-elliptic leaf spring and helper with anchor at front and shackle at rear
Leaf dimensions (mm)	Main: 70mm x 1300mm Helper: 70mm x 980mm
Number of leaves	Main: 7 Helper: 7
Spring constant (total)	985N/mm (100.4kg/mm)
Shock absorbers	2 telescopic double acting
Max. ground capacity	Refer to the <i>Load Capacity Summary</i> on Page 3

AIR SUSPENSION	
Description	Hendrickson HAS200
Air spring diameter	270mm
Number of springs	2 air bags
Spring constant	118N/mm (12.0kg/mm)
Shock absorbers	2 telescopic double acting
Max. ground capacity	Refer to the <i>Load Capacity Summary</i> on Page 3

LOAD CAPACITY SUMMARY			
	Front (kg)	Rear (kg)	
		HAS 200	or Leaf
Axle	4000	7600	7600
Steering/suspension	4000	9000	7600
Tyres	4000	7600	7600
Max. ground capacity*	4000	7600	7600

BRAKES			
Type	WABCO Anti-lock Braking System (ABS)		
Description	Air Over Hydraulic (AOH), dual line system, with aluminium air tanks, drum brakes, 4 channel ABS and Easy Hill Start (EHS – manual models only)		
Air pressure	7.2-8.5kg/cm <sup>2</sup>		
	Front	Rear	Total
Drum diameter	320mm	320mm	
Lining area	1360cm <sup>2</sup>	1672cm <sup>2</sup>	3032cm <sup>2</sup>
Park brake	Hand operated pneumatically controlled spring park brake on drive axle		
Auxiliary brake	Butterfly type exhaust brake		

STEERING	
Type	Recirculating ball and screw with hydraulic assist
Steering gear ratio	18.8:1
Column	Adjustable, tilt and telescopic control
Steering wheel	460mm diameter with ignition key steering lock

WHEELS AND TYRES	
Wheels	Pressed steel disc type 6.75in x 17.5in rim with 131mm offset – 10TCS, 6 stud (222.25mm PCD)
Front tyres	Single 235/75R 17.5 Dunlop SP341, regroovable
Rear tyres	Dual 235/75R 17.5 Dunlop SP442, regroovable (E & F wheelbase only) Dual 235/75R 17.5 Dunlop SP341, regroovable (except E & F wheelbase)
Spare tyre	Single 235/75R 17.5 Dunlop SP341, regroovable, mounted on spare tyre carrier (STC) at rear of chassis

FRAME			
Construction	Ladder, channel type double skin chassis construction		
Width	860mm		
Side rail dimensions	234mm x 70mm x 7mm (except N wheelbase) 234mm x 80mm x 7mm (N wheelbase only)		
Material	Pressed high tensile carbon steel		
Rail data	Tensile	Yield	Modulus
	55kg/mm <sup>2</sup>	48kg/mm <sup>2</sup>	Refer to Body Manual <a href="http://www.udtrucks.com.au">www.udtrucks.com.au</a>

STANDARD DRIVER AIDS	
Safety equipment	SRS driver's steering wheel air bag SRS driver's seat belt pretensioner ECE-R29 cab crash design ABS – Anti-lock Brake System Easy Hill Start (EHS) – manual models only
Instrumentation	Fully electronic, CAN-BUS instrument system including speedometer, tachometer (with economical green driving band), fuel, temperature, AdBlue level and independent front and rear air circuit pressure gauges. Digital odometer display with dual trip function.
Warning systems	Up to 22 visual warning lamps plus up to 38 different written warnings displayed on the LCD screen. In conjunction, 13 audible tones are used
Driver assistance	A Driver's Information System (DIS) displaying useful vehicle data including: Date/time, engine temperature, oil pressure, voltmeter, trip information, along with service intervals for engine, transmission, differentials, belts and air filter. Electronic stalk mounted cruise control. GPS satellite navigation with NAVTEQ "truck" mapping

EXTERNAL CABIN	
Description	Aerodynamically designed, forward control, pressed steel construction cab with 45° torsion bar cab tilt
Mounting type	Spring suspended cab with 2 dual acting shock absorbers
Crash test standard	Designed to ECE-R29
Cab paint	Standard – Jumping White (W33)
Doors	90° opening, steel construction with side intrusion beams
Inspection points	All daily inspections can be carried out without lifting the cab from the front opening inspection panel
Bumper type	1 piece, pressed steel, air dam front bumper
Mirrors	Heated and electrically operated LH and RH main mirrors with wide vision spot mirrors and passenger side down facing spot mirror
Lamps	Halogen multi-reflector head lamps ADR49/00 bumper mounted fog lamps ADR49/00 roof mounted clearance lights
Glass	Tinted front, side and rear
Wipers	Double arm, 2 speed wipers with intermittent operation and integrated washers
Reversing system	Rear facing reverse light and audible warning alarm Optional – remote mounted camera with microphone (see <i>Dealer Options</i> list)

INTERNAL CABIN	
Lighting	Single ON/OFF/DOOR interior light with an independent 720mm x 140mm fluorescent lamp
Standard seat capacity	3 occupant seats – 2 outer seats with retractable 3 point ELR seat belts, centre seat with adjustable lap belt
Driver's seat	CVG multi-adjustable, air suspended with automatic height control and 7 position adjustable shock absorber
Passenger seat(s)	Flat folding LH assistant seat with lift-up base Flat folding centre seat with back of seat storage
Sleeping capability	ADR42/04 compliant sleeper bunk with mattress (suitable for stationary sleeping). Sleeper bunk cab curtain rails with curtains
Side windows	Power operated door glass
Security	Remote keyless central locking
Air conditioning	Adjustable temperature control with multi-speed fan
Audio system	Double DIN sized, AM/FM/CD 4.8" Touch screen multimedia system with USB, SD card and Bluetooth capability
Cup holders	2 centre mounted cup-holders RH and LH door mounted bottle-holders Additional 2 back of centre seat cup-holders
Storage	Driver and passenger overhead consoles (6 litres each) with lids 10 litre back of centre seat storage box with lid Driver and passenger door pockets
Power outlet	24 volt 240W cigarette lighter/power outlet
DIN accessory fitment	Two DIN sized compartments for accessory fitment
Floor covering	Vinyl

FACTORY OPTIONAL EQUIPMENT (Indent order)	
Suspension	Front stabiliser bar Long taper leaf front springs 294Nm/mm (29.9kg/mm) – 3600kg maximum ground capacity*
Seating	Large centre console (replaces centre seat)
Engine/PTO control	Electronic engine governor control with external control lever
Transmission PTO	High torque transmission PTO – 343Nm @ 100% engine speed output – manual models only
Cab paint	20 x factory option colours Custom paint colours (up to 3 colours per cab)

DEALER FIT OPTIONAL EQUIPMENT	
Ratings	Optional GVM 8000kg* – for Light Rigid truck licence Optional GCM 20000kg* – manual models only
Rear engine PTO	343Nm torque capacity @ 120% engine speed 343Nm torque capacity @ 85% engine speed
PTO	Transmission
Fleet management	GPS-based fleet management system
Cameras	Up to 3 cameras connected to the in-dash multimedia system
Other	Refer to your UD Trucks Accessories brochure <a href="http://www.udtrucks.com.au">www.udtrucks.com.au</a>