

# Condor

## PK 16 250



### SPECIFICATIONS

<b>GVM*</b>	15,500 kg	<b>Torque</b>	716 Nm @ 1,400 rpm
<b>GCM*</b>	15,500 kg	<b>Transmission</b>	Allison 5 speed automatic
<b>Power</b>	180 kW @ 2500 rpm	<b>Suspension</b>	UD Trucks leaf or Hendrickson airbag

### FEATURES

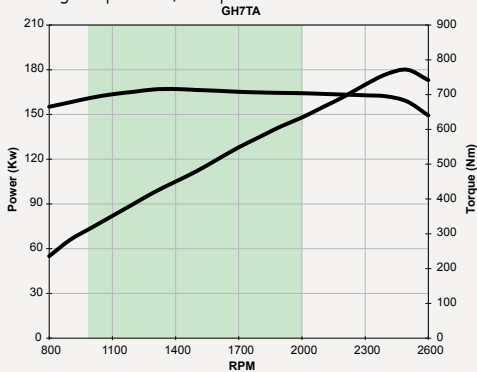
ECE-R29 Cab Strength Compliant	Multi adjustable air suspended driver seat
Drivers SRS airbag and seat belt pretensioner	Cruise control
WABCO ABS (Anti-lock Braking System)	Touch screen multimedia with SD, USB, CD, DVD, 3.5mm inputs
Allison Generation 5 automatic transmission	ADR42 compliant sleeper cab and mattress
ADR84/00 (ECE-R93) integrated Front Underrun Protection (FUPS)	Heated and electronically operated external mirrors
Fleet Max Plus telematics system	

SAFETY

ECE-R29 Cab strength compliant  
ADR84/00 (ECE-R93) integrated Front Underrun Protection (FUPS)  
SRS drivers airbag with seat belt pretensioner  
WABCO ABS (Anti-lock Braking System)  
Easy Hill Start (EHS) - manual models only  
Electrically operated and heated mirrors  
360° visibility with up to 4 optional cameras

ENGINE

Make UD Trucks  
Model GH7TA  
Description 4 Cycle direct injected turbocharged and intercooled diesel engine. Single overhead camshaft with 4 valves per cylinder.  
  
Cylinders 6 in-line  
Total piston displacement 7,013 cc (7 litres)  
Bore x stroke 110 mm x 123 mm  
Compression ratio 17.5:1  
Max. Power (ECE Net) 180 kW (245 ps) @ 2,500 rpm  
Max. Power (JIS Gross est.) 187 kW (254 ps) @ 2,500 rpm  
Max. Torque (ECE Net) 716 Nm (528 lb/ft) @ 1,400 rpm  
Max. Torque (JIS Gross est.) 744 Nm (548 lb/ft) @ 1,400 rpm  
Max. governed engine speed 2,600 rpm



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 600 mm 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 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 standard)  
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 120 Ah batteries mounted on LHS chassis  
Alternator 110 amp with built in IC regulator

TORQUE CONVERTER

Make Allison  
Model TC 221  
Description One stage, three element, polyphase. Includes standard integral damper with lock-up function  
  
Stall torque ratio 1.73:1

TRANSMISSION

Make Allison Generation 5  
Model LCT2500  
Description Five forward speeds and one reverse. Fully automatic adaptive shift with power and Eco modes  
Shift type T-bar shifter with shift lock and overdrive buttons, cable operation  
  
Gear ratios 

<b>1st</b>	3.51	<b>4th</b>	1.00
<b>2nd</b>	1.90	<b>5th</b>	0.74
<b>3rd</b>	1.44	<b>Rev</b>	5.09

  
PTO capability Transmission type drive with LHS and RHS openings 339 Nm using one opening, or 542 Nm total using both openings  
  
Electronic Brake Interface (EBI) Transmission assisted engine braking effort when exhaust brake is activated

FRONT AXLE AND SUSPENSION SYSTEM

Axle make UD Trucks  
Description Drop forged steel “I” section beam, “ELLIOT” type  
Suspension Long taper leaf spring with anchor at front and shackle at rear  
  
Dimensions (mm) 80 mm x 1,400 mm  
Number of leaves 3  
Spring constant 343 N/mm (35.0 kg/mm)  
Shock absorbers 2 telescopic double acting  
Max. ground capacity Refer to the **Load Capacity Summary**

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 5.143:1

LEAF SUSPENSION

Description Semi-elliptic leaf spring and helper with anchor at front and shackle at rear  
  
Dimensions (mm) Main: 80 mm x 1,600 mm  
Helper: 80 mm x 1,100 mm  
  
Number of Leaves Main: 9  
Helper: 8  
  
Spring Constant (total) 1,102 N/mm (112.5 kg/mm)  
Max. ground capacity Refer to the **Load Capacity Summary**

AIR SUSPENSION

Description Hendrickson HAS230 - Road Friendly compliant  
Air spring diameter 320 mm  
Number of springs 2 airbags  
Spring constant 125 N/mm (12.8 kg/mm)  
Shock absorbers 2 telescopic double acting  
Road Friendly Certification Number (RFCN) RF2022  
Control System WABCO ECAS (Electronic Controlled Air Suspension) with programmable remote control in cab  
  
Max. ground capacity Refer to the **Load Capacity Summary**

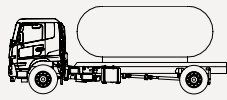
LOAD CAPACITY SUMMARY

	Front (kg)	Rear (kg)	
		HAS 230	or Leaf
Axle	6,500	11,500	11,500
Steering/suspension	6,500	10,000	9,500
Tyres	6,300	11,600	11,600
<b>Max. ground capacity*</b>	<b>6,300</b>	<b>10,000</b>	<b>9,500</b>

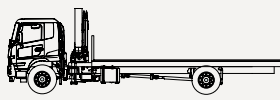
BRAKES			
Type	WABCO ABS (Anti-lock Braking System)		
Description	Full air brake, dual line system, with aluminium air tanks, automatic adjusting taper roller drum brakes with 4 channel ABS		
Air pressure	7.2 - 8.5 kg/cm <sup>2</sup>		
	Front	Rear	Total
Drum diameter	410 mm	410 mm	
Lining area	2,480 cm <sup>2</sup>	3,648 cm <sup>2</sup>	6,128 cm <sup>2</sup>
Park brakes	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	22.42:1		
Column	Adjustable, tilt and telescopic control		
Steering wheel	460 mm diameter with ignition key steering lock		
WHEELS AND TYRES			
Wheels	Pressed steel disc type 8.25" x 22.5" rim with 165 mm offset - ISO 10 stud pattern (335 mm PCD)		
Front tyres	Single 275/70R 22.5" Dunlop SP160, regroovable		
Rear tyres	Dual 275/70R 22.5" Dunlop SP160 regroovable		
Spare tyre	Single 275/70R 22.5" Dunlop SP160, regroovable mounted on spare tyre carrier at rear of chassis		
FRAME			
Construction	Ladder, channel type double skin chassis construction		
Width	860 mm		
Side rail dimensions	250 mm x 80 mm x 8 mm + 234 mm x 72 mm x 3.2mm (H wheelbase only) 250 mm x 80 mm x 8 mm + 234 mm x 72 mm x 6 mm (except H wheelbase)		
Material	Pressed high tensile carbon steel		
Rail data	Tensile	Yield	Modulus
	55 kg/mm <sup>2</sup>	48 kg/mm <sup>2</sup>	Refer to Body Manual <a href="http://udtrucks.com.au">udtrucks.com.au</a>
STANDARD DRIVER AIDS			
Safety equipment	SRS driver steering wheel airbag SRS driver seat belt pretensioner ECE-R29 cab crash compliance ADR84/00 (ECE-R93) Front Underrun Protection System compliance (FUPS) ABS – Anti-lock Brake System		
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	Driver 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 HEREMAPS "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	ECE-R29 compliant
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	2 piece pressed steel and fibre-glass 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, infra-red camera with microphone
INTERNAL CABIN	
Lighting	Single ON/OFF/DOOR interior lights with an independent 720 mm x 140 mm fluorescent lamp
Standard seat capacity	3 occupant seats - 2 outer seats with 3 point ELR seat belts, centre seat with adjustable lap belt
Driver seat	CVG multi-adjustable, air suspended with automatic height control and 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 (full cab curtains)
Side windows	Power operated door glass
Security	Remote keyless central locking
Air conditioning	Adjustable temperature control with multi-speed fan
Audio system	6.1" Touch Screen, Digital Radio DAB+, Inbuilt 32G Hard Drive, 4 Camera inputs incl. option for IR night vision and multiple component inputs, SD, USB, CD, DVD, 3.5mm, 3-way speakers
Telematics	Fleet Max Plus CAN and GPS vehicle data reporting
Cub 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 outlets	24 volt 240 W cigarette lighter / power outlet
Accessory fitment	Two DIN sized compartments for accessory fitment
Floor coverings	Vinyl
FACTORY OPTIONAL EQUIPMENT (indent order)	
Suspension	Multi-leaf front springs 294 Nm/mm (29.9 kg/mm)
Fuel Capacity	200 litre LHS chassis mounted auxiliary tank with lockable cap (except H wheelbase)
Seating	Large centre console (replaces centre seat)
Engine/ PTO control	Electronic engine governor control with external control lever
Cab paint	Custom paint colours (up to 3 colours per cab)
Front view mirror	Left-hand side close-view spotter mirror
DEALER FIT OPTIONAL EQUIPMENT	
Rear engine PTO	343 Nm torque capacity @ 120% engine speed 343 Nm torque capacity @ 85% engine speed
Transmission PTO	Specific to application refer to dealer
Cameras	Up to 3 additional cameras connected to the in-dash multimedia unit

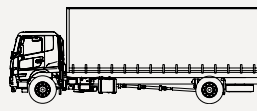
## TYPICAL APPLICATIONS



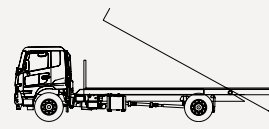
Skip/Tanker



Tray body



Pan / tautliner



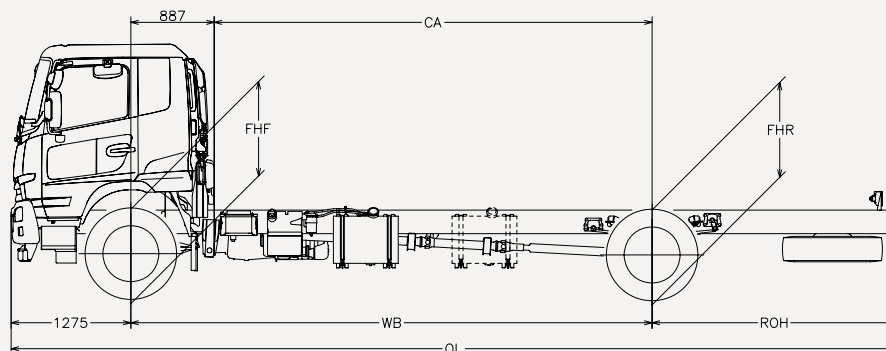
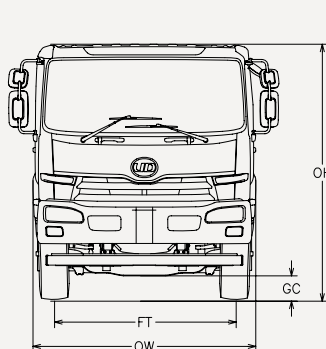
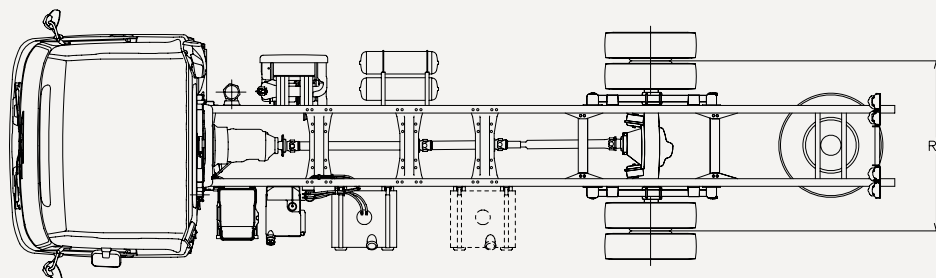
Tilt tray

## GENERAL SPECIFICATIONS (Approximate)

		Mass (kg)						Vehicle Dimensions (mm)													
Variant		Wheelbase code	GVM*	GCM*	FA <sup>1</sup>	RA <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 model code
UD - Leaf	Automatic	H	15,500	15,500	3,000	2,025	5,025	4,500	7,625	2,472	2,690	1,934	1,810	1,850	3,613	222	921	1,014	N/A	8,000	PK16250HAL
		N			3,080	2,105	5,185	5,550	9,425					2,600	4,663					9,600	PK16250NAL
		R			3,105	2,125	5,230	6,050	10,125					2,800	5,163					10,400	PK16250RAL
		S			3,190	2,180	5,370	6,450	10,625					2,900	5,563					11,100	PK16250SAL
HAS230 – air	Automatic	R	15,500	15,500	3,080	2,025	5,105	6,050	10,125	2,472	2,690	1,934	1,860	2,800	5,163	222	921	940	895	10,400	PK16250RAA
		S			3,155	2,140	5,295	6,450	10,625					2,900	5,563					11,100	PK16250SAA

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

<sup>2</sup> Based on vehicle with standard 275/70R 22.5" front and rear tyres.



Note: PK 16 250 photo and drawing shown, may not be representative of actual truck

## PERFORMANCE (Calculated)

### 5 speed Allison automatic with 5.143 diff ratio and 275/70R 22.5" tyres

Max road speed	100 km/h (ADR65/00 - speed limited)
Gradeability 1st gear	29.1% @ 15,500 kg
Gradeability top gear	2.4% @ 15,500 kg
Est rpm @ 100 km/h	2,188 rpm

## WARRANTY

Standard warranty+	36 months/200,000 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++	36 months/350,000 kms	

NOTES: \*Rated GVM/GCM for on highway applications ONLY. Other applications requires UD Trucks engineering approval. See your UD Trucks dealer.  
\*Rated GVM and axle capacities are subject to Federal, State and Territory legal requirements.

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