



Condor PW 24 280



SPECIFICATIONS

GVM*	23,500 kg	Torque	883 Nm @ 1,400 rpm
GCM	28,000 kg	Transmission	Allison 6 speed automatic
Power	206 kW @ 2,500 rpm	Suspension	UD Trucks 6 Rod Trunnion Hendrickson HAS460

FEATURES

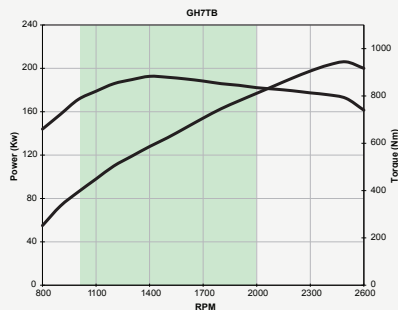
ECE-R29 Cab Strength Compliant	Multi adjustable air suspended driver seat
Drivers SRS airbag and seat belt pretensioner	Cruise control
WABCO ABS (Anti-lock Braking System)	Touch screen multimedia with SD, USB, CD, DVD, 3.5mm inputs
Allison Generation 5 Automatic transmission	ADR42 compliant sleeper cab 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)
 Electrically operated and heated mirrors
 360° visibility with up to 4 optional cameras

ENGINE

Make	UD Trucks
Model	GH7TB
Description	4 cycle, direct injection, diesel engine with overhead cam, 4 valves per cylinder, water cooled and intercooler with variable turbocharging system.
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)	206 kW (280 ps) @ 2,500 rpm
Max. Power (JIS Gross est.)	214 kW (291 ps) @ 2,500 rpm
Max. Torque (ECE Net)	883 Nm (651 lb/ft) @ 1,400 rpm
Max. Torque (JIS Gross est.)	917 Nm (676 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	<i>P W/B</i> 200L steel tank with lockable cap, LHS chassis <i>W W/B</i> 2 x 200L steel tank with lockable cap, 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 415
Description	One stage, three element, polyphase. Includes standard integral damper with lock-up function
Stall torque ratio	2.35

TRANSMISSION

6 SPEED AUTOMATIC

Make	Allison Generation 5
Model	3500
Description	Six forward speeds and one reverse. Fully automatic Allison Gen 5 adaptive shift with power and EcoFleet modes
Shift type	Electronic push button controller
Gear ratios	1st 4.59 4th 1.00 Rev 5.00 2nd 2.25 5th 0.75 3rd 1.54 6th 0.65
PTO capability	Flywheel type drive with LHS and RHS openings 660 Nm using one opening, or 930 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	Meritor
Model	MT 44-144GP
Type	Fully floating pressed steel banjo type housing with tandem single drive
Gear type	Single reduction hypoid Gear
Traction Aid	DCDL - Driver Controlled Differential Lock IADL - Inter Axle Differential Lock
Final reduction ratio	6.140:1

LEAF SUSPENSION (P W/B)

Description	Trunion mounted, multi leaf springs with 6 torque rods
Leaf dimensions (mm)	90 mm x 1320 m,
Number of leaves	8 per side
Spring constant	2,340 Nm (239 kg/mm)
Max. ground capacity	Refer to the Load Capacity Summary

AIR SUSPENSION (W W/B)

Description	Hendrickson HAS460 - Road Friendly compliant
Air spring diameter	320 mm
Number of springs	4 airbags
Spring constant	125 N/mm (12.8 kg/mm)
Shock absorbers	4 telescopic double acting
Road Friendly Certification	RF2005
Number (RFCN)	
Max. ground capacity	Refer to the Load Capacity Summary

LOAD CAPACITY SUMMARY

	Front (kg)	Rear (kg)	
		Airbag	Leaf
Axle	6,500	20,000	20,000
Steering/suspension	6,500	18,000	20,000
Tyres	7,100	23,200	23,200
Max. ground capacity*	6,500	18,000	20,000

BRAKES

Type	WABCO 4 channel ABS (Anti-lock Braking System)		
Description	Full air brake, dual line system, with aluminium air tanks		
Front	Automatic adjusting taper roller drum brakes		
Rear	Meritor Q Plus Cam Brakes		
Air pressure	7.2 - 8.5 kg/cm ²		
	Front	Rear	Total
Drum diameter	410 mm	419 mm	
Lining area	2,480 cm ²	5,600 cm ²	8,080 cm ²
Park brakes	Hand operated pneumatically controlled spring park brake on drive axles		
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 295/80R 22.5" Dunlop SP350, regroovable
Rear tyres	P W/B Dual 11R 22.5" Dunlop SP431 regroovable W W/B Dual 11R 22.5" Dunlop SP343 regroovable
Spare tyre	295/80/22.5 Dunlop SP350 regroovable P W/B mounted on LHS chassis W W/B mounted 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 6 mm (W W/B only)		
Material	Pressed high tensile carbon steel		
Rail data	Tensile	Yield	Modulus
	55 kg/mm ²	38 kg/mm ²	Refer to Body Manual udtrucks.com.au

STANDARD DRIVER AIDS

Safety equipment	ECE-R29 Cab strength compliant ADR84/00 (ECE-R93) Front Underrun Protection System compliance (FUPS) SRS driver steering wheel airbag SRS driver seat belt pretensioner 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'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 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
Front view mirror	Left-hand side close-view spotter 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 retractable 3 point 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
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 outlets	24 volt 240 W cigarette lighter/power outlet
Accessory fitment	Two DIN sized compartments for accessory fitment
Floor coverings	Vinyl

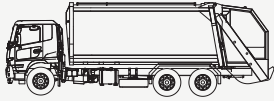
FACTORY OPTIONAL EQUIPMENT (indent order)

Fuel Capacity	200 litre LHS chassis mounted auxiliary tank with lockable cap. P W/B only
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)

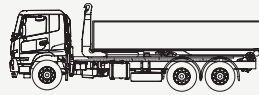
DEALER FIT OPTIONAL EQUIPMENT

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

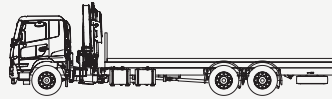
TYPICAL APPLICATIONS



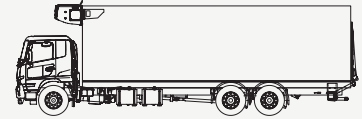
Rear Loader Compactor



Hooklift



Crane and Tray



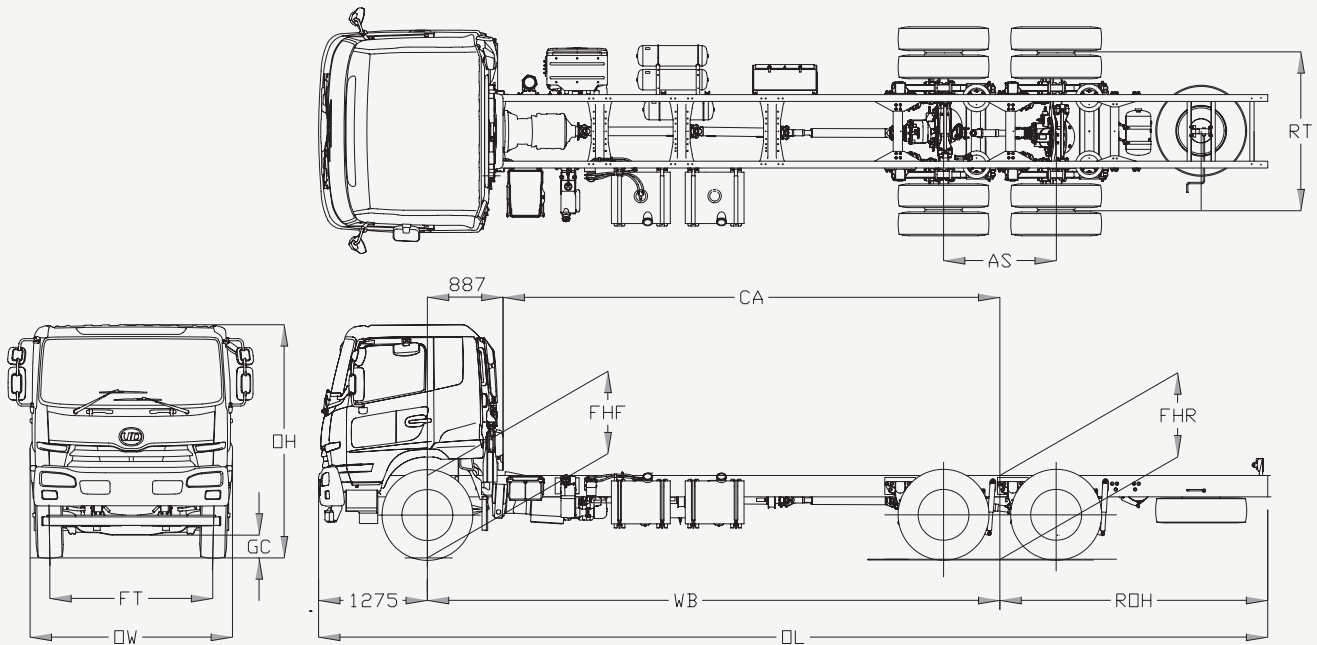
Refrigerated Freight

GENERAL SPECIFICATIONS (Approximate)

Variant	Mass (kg)						Vehicle Dimensions (mm)													
	Wheelbase code	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 (Lowered height)	Turning radius (kerb to kerb)	UD model code
Automatic ²	P	23,500	28,000	3,316	3,500	6,816	5,300	9,035	2,472	2,734	1,934	1,860	2,460	4,413	266	965	1,032	N/A	9,600	PW24280PAL
	W			3,318	3,520	6,838	6,710	11,125					3,140	5,823			981	939	11,700	PW24280WAA

¹ Mass is an estimation only based on standard model, includes fluids (not diesel fuel or AdBlue®), Spare tyre carrier and spare, excludes tools and driver.

² Based on vehicle with standard 295/80R 22.5" front and 11R 22.5" rear tyres.



Note: PW 24 280 WAA photo and drawing shown, may not be representative of actual truck

PERFORMANCE (Calculated)

	6 speed Allison automatic with 6.140 diff ratio and 11R 22.5" tyres
Max road speed	100 km/h (ADR65/00 - speed limited)
Gradeability 1st gear	41.9%
Gradeability top gear	1.6%
Est rpm @ 100 km/h	2088

WARRANTY

Standard warranty+	36 months/200,000 kms	+ For details refer to udtrucks.com.au
Cab corrosion warranty+	36 months/unlimited kms	++Covers selected items only. For details refer to udtrucks.com.au
Optional Extended warranty++	60 months/350,000 kms	

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

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