

XF105.460 FTT HEAVY HAULER

Space cab with HR1670 hub reduction axles

Technical Specifications



ENGINE ASSEMBLY - PACCAR MX340 12,9 LITRE, 6 CYLINDER IN LINE, TURBO CHARGER AND INTERCOOLER

Block	Compact Graphite Iron (CGI) cylinder block with integrated unit pump, fuel line and cooling pipe housing
Head	CGI one piece cylinder head with integrated intake manifold and composite valve cover
Valves	Two inlet valves per cylinder with single springs Two exhaust valves per cylinder with double valve springs
Liners	Wet cylinder liners with Anti Polishing "Fire" Rings
Pistons	Oil cooled with three piston rings each and laser hardened top ring groove
Crankshaft	Stepped-die forged steel crankshaft
Starter motor	6,2kW with planetary reduction
Sump	Sheet steel extrusion with fully-elastic mounting against block
Injection System	DELPHI Electronic Unit Pump (EUP) diesel injection system with integrated pump unit solenoids
Injectors	SMART injectors with variable needle opening pressure and multi-point injection
Turbocharger	Compact, single-stage turbocharger with turbine housing integration of exhaust manifold and mechanically controlled by-pass
Intercooler	Aluminium, single-row, transverse-type with reinforced header plates and increased core depth
Radiator	Transverse liquid cooling system with sleeve type thermostat and coolant filter configured for African climates
Fan	813mm diameter, 11-Blade axial Viscofan with coolant temperature sensing, increased idle and speed adjustment ratio to 1.35
Oil Module	Block-mounted and preassembled with oil filters, plate-type oil heat exchanger, thermostat and valves in single module.
Oil Pump	Camshaft gear transmission with integrated suction control
Oil Filter	Top-mounted cartridge type, full flow main oil filter and centrifugal by-pass filter
Air Compressor	2-Stage compression at 1:3 compression ratio per stage, with intercooling and final pneumatic pressure up to 10 bar.
Alternator	110A Preassembled, Poly-V Belt driven, direct block mounted with improved IP69 water tightness.

Climbing ability*	Engine RPM	GCW @ 49 700kg	GCW @ 56 000kg
Moving off behaviour in 1st gear	1000	50%	45%
Top gear gradeability @80km/h	1489	3,3%	2,9%

*Theoretic, no slip value at constant speed, excluding rolling resistance, drag torque and aerodynamic influences.

Forward gears	1	2	3	4	5	6	7	8	9	10	11	12
Transmission ratio	12,29	9,59	7,41	5,78	4,56	3,56	2,69	2,10	1,62	1,27	1	0,78
Speed @1000rpm (km/h)	3	4	6	7	9	12	16	20	26	33	42	54
Speed @1410rpm (km/h)	5	6	8	10	13	17	22	28	36	47	59	76
Max speed (km/h)	6	8	11	14	17	22	30	38	49	63	80*	102*

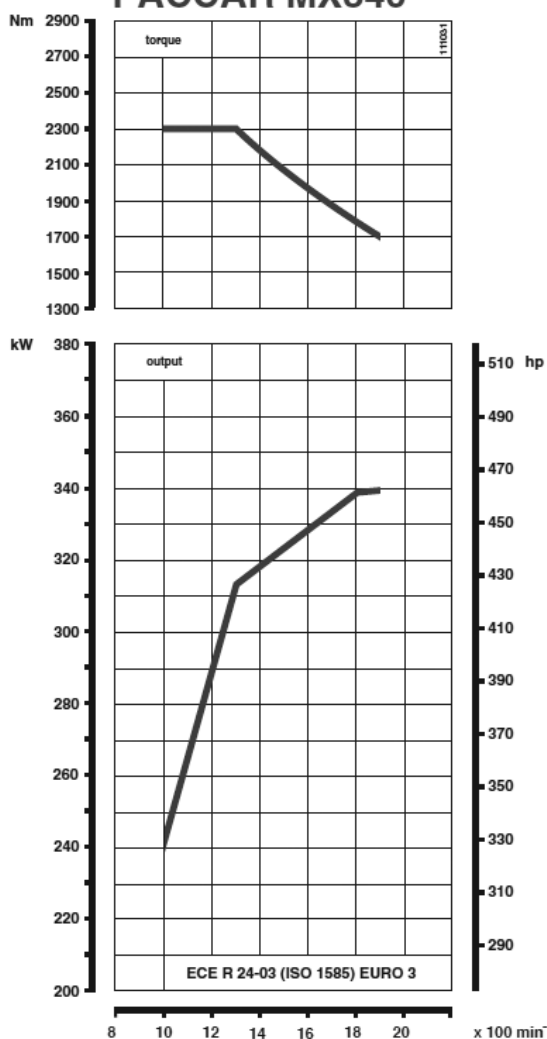
*Theoretical due to electronic speed governing.

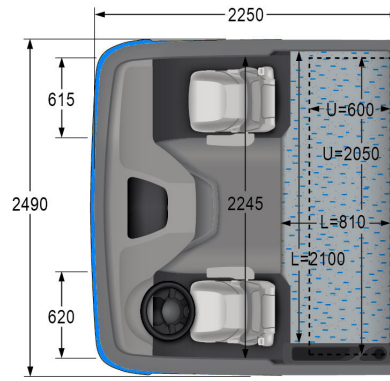
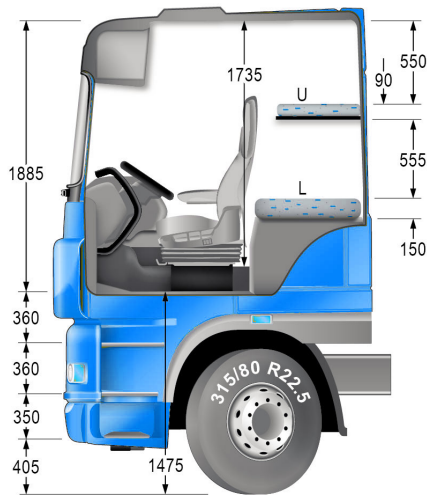
Disclaimer All specifications correct at the time of going to print. Specifications are subject to change without prior notice.

ENGINE MODEL

Displacement	12,9 litre
Output	462 hp / 340 kW @1500-1900 r/min
Torque Nm	2300 Nm at 1000 - 1410 r/min
Green Band	1000 - 1500 r/min
Exhaust Brake	Pneumatic butterfly valve in exhaust duct
Engine Brake	Hydraulic MX Engine Brake
Compression Ratio	17,7:1
Bore diameter x Stroke	130 x 162mm
Idle Speed	550 rpm
Max. Injection pressure	2 000 bar
Sump capacity	34 Litres
Radiator area	0,9 m ²
Emission Standard	Euro 3

PACCAR MX340





AIR INTAKE & COMPRESSION SYSTEM

Raised air intake with cyclone prefilter and dual air filter behind cab. Liquid-cooled, twin cylinder 471cc compressor with power reduction system delivering up to 670 L/min at 10 bar. Cartridge type, heated air dryer with integrated governor and 72 dB sound absorbers on pressure relief valves. 4-Circuit pneumatic system with 4-way protection valve.

CLUTCH

Hydraulically-operated, electronically-controlled, servo-assisted, pull type clutch with torsion damper. Single 430mm diameter dry plate with 3mm wear thickness lining and 2000 cm² friction area.

TRANSMISSION

ZF – 12AS2541 TO, Over Drive gearbox with 12 forward gears, 2 reverse gears. 3-Speed constant mesh gearbox with synchronized range-change group and splitter group. Integrated electronic control unit for automated gear shift and clutch operation. Default automatic or selected manual gear shifting option by driver, including manoeuvring mode selection. First gear ratio – 12,29 top gear ratio – 0,78 (Direct Drive gear: 11th gear)

PROPELLER SHAFT

Single shaft with cross flanges, maintenance-free universal joints, needle bearings and maintenance-free slide shaft.

POWER TAKE OFF

Engageable ZF NH/4c offset gearbox PTO with output positioned horizontally to the right, for intermittent operation. Direct pump drive: spline socket connection (DIN 5462, ISO 7653). Maximum PTO output torque: 430Nm for up to 60 minutes continuous operation. PTO Speed: 1,22 x Engine Speed in revolutions per minute. PTO output rotation: counter clockwise, opposite to engine rotation.

FRONT AXLE & SUSPENSION

DAF 186N straight I-beam front axle with long-life needle bearings in stub axles – 9 000kg capacity. Maintenance free, 3-blade parabolic leaf springs with shackled rear ends, double acting shock absorbers, stabiliser bar and silent blocks in the spring ends. 175 bar TRW THP80 single circuit steering gear with 49° maximum steering angle.

REAR AXLE & SUSPENSION

DAF HR 1670 hub reduction, tandem driven axle unit with stabilizer bars and combined rating of 32 000kg. 7-Leaf, Heavy-duty Trapezium leaf suspension with 8 reaction rods, steel end connections, guide plates and combined rating of 26 000kg. One interaxle and two cross-axle differential locks controlled with latched rocker switches. Anti-Slip Regulation (ASR) for preventative and controlled slippage of the driven wheels. 4,67 : 1 Rear axle ratio.

RIMS & TYRES

Steel disc wheels 10-hole 11,25 x 22,5" on front axle and 9,00 x 22,5" on rear axles, painted Silver Grey RAL 9006. Tubeless radial 385/65R22,5 steer tyres on front axles and 315/80R22.5 drive tyres on rear axles.

Capacity Front 9 000kg, Rear 13 400kg. Make and Model*: Michelin X Multiway HD XZE Steer and X Multi HD D Drive tyres. Durable plastic mudguards and mudflaps with spray suppression mats surrounding all tyres.

*Make and model of tyres may vary according to supplier constraints and/or model successions

BRAKE & SAFETY SYSTEMS

Dual type, full air operating disc brake callipers on the front and rear axles with electronic brake wear indication. 430mm diameter x 45mm wide ventilated discs locked on the axle hub with thermally insulated partitioning. 410 x 200mm S-cam operated drum brakes on rear axles with Haldex automatic slack adjusters. Pneumatically-operated exhaust brake with an output of 170 kW @ 2100 r/min. DAF MX Engine Brake in combination with the exhaust brake delivers up to 320 kW/1455Nm @ 2100 r/min. ZF Intarder 3 with stainless steel heat exchanger and rapid temperature threshold protection, producing up to 500kW/3300Nm at 80km/h. Engine overrev protection: Driver warning system at 2100rpm, with automatic upshifting above 2150rpm. Electronic Braking System (EBS) with integrated Brake Assist (BA) functionality and Brake Performance Monitoring (BPM) system. Antilock Braking System (ABS) with Drag Torque Control (DTC) and Trailer Brake Harmonization (TBH). Selectable Hill Start Aid (HSA) for assisted pulling off on slopes. Adjustable Cruise Control (CC) system and Road Speed Limiter (RSL) from 30km/h. Downhill Speed Control (DSC) automatically applies auxiliary braking systems to maintain driver-specified descent speed target. Spring actuated park brake actuators on front and rearmost axles with electronic park brake warning system.

CHASSIS FRAME

500MPa fine grain steel (KF500) Flat top chassis rails with rivetted and bolted construction. 310 x 75 x 7mm main chassis frame rails with full length 295x65x5mm reinforcement channels. Chassis colour grey (Code C4P-500GRY).

FUEL TANK

620 Litre aluminium tank with lockable fuel tank cap, TISS Tanksafe Optimum antisiphon filler neck and anti-theft cover plate over breather pipe. Moisture separator with 30 micron filter element and electronic drain warning.

ELECTRICAL SYSTEM

IP69 Watertight 110A Alternator with two 12V/230Ah batteries in series and manual battery isolator switch. Colour-coded and numbered wires housed in splash-proof, temperature-resistant flexible tubes with IP69 sealed connectors. 24V/15A and 12V/5A Electric converter, wired to the dashboard centre console sockets. 90dB Reverse warning siren integrated in rear light console.

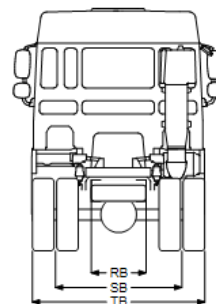
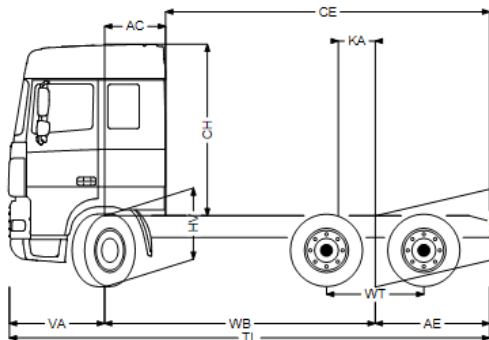
5th WHEEL COUPLING AND CONNECTIONS

Optional: JOST JSK 38C or 38G cast iron 5th wheel coupling; D-Value 260 kN, 36 000kg maximum vertical load rating. 3,5-inch kingpin diameter, 190mm pedestal height in combination with 40mm base plate. Service and supply suzzie hoses with C-type couplings. Two 7-Pin 24V sockets behind cab with NRCS trailer light cable and EBS/ABS cable.

CAB INTERIOR AND EXTERIOR

- Trendline Trim*
- Double-sided, hot-dipped galvanized sheet metal shell welded to box-section frame
- Cab Colour Ice White (Code M8870WHTE) cab & bumper
- ECE R29 and Swedish safety regulation compliant
- Maintenance-free, 4-point, coil suspension with integrated shock absorbers and 80mm (front) x 60mm (rear) travel
- Hydraulic cab tilt gear to 57,5° tilt angle, with two rear safety locks
- 2,5mm thick steel front bumper with anti-slip foothold step and easily replaceable bulb changes requiring no cab tilting
- 20L windscreen washer tank and three windscreen wipers
- 396 x 695mm tempered, tinted glass hatch with electronic control and bug screen
- 845L total storage volume designated in cab
- Two 150L airtight storage boxes accessible from outside the cabin
- Translucent grey sun visor
- Galvanized steel doors with 83° opening angle
- Rigid first cab step mounted on chassis with flexible cover and footwell illumination
- Bi-reflector H1 and H7 multi-focus halogen head lights with impact-resistant Lexan glass and light levelling adjustment
- Laminated, non-metallised, glazed windscreen and door windows made of toughened glass, 78% green tinted
- Electric windows on driver and co-driver's doors
- Electric door lock with manual key control and immobilizer
- Fine pollen filter element and 4-speed air blower
- 4,2kW air conditioner with R134a gas producing up to 450 m³/h cool air flow
- 14,5kW liquid-to-air heater producing up to 550 m³/h warm air flow
- Convex main and kerb mirrors for wide field of view
- Air suspended driver's seat with longitudinal (220mm), height (145mm), seat tilt, backrest angle and lumbar support adjustment
- Fixed seat with longitudinal (220mm) and backrest angle adjustment
- Semi flat engine tunnel cover for full cross cab access and full standing height
- 2100 x 810 x 150mm Foam bunk with 550mm gap from upper bunk
- 2050 x 600 x 90mm foam bunk with step unit and 550mm height to cab ceiling
- 65L central sliding drawer under bunk
- 24V 1-DIN Radio/USB/MP3/AUX player with 2-speaker system
- Single tone air horn

*Trim refers to the consistent common specification of features across various standard models.



Capacity Ratings	
GCM	120 000
D/T	56 000
CCC	16 369

Dry Tare excl. spare wheel, fuel & 80kg driver	
Tare FA (Dry)	5 128
Tare RAU (Dry)	4 203
Tare (Dry)	9 331

Wet Tare incl. fuel & 80kg driver, excl. spare wheel	
Tare FA (Wet, driver & fuel)	5 498
Tare RAU (Wet)	4 415
Tare (Wet)	9 913

Manufacturer Gross Vehicle Ratings	
GA (Front)	9 000
GAU (Rear)	26 000
GVM	35 000

Road Legal Vehicle Ratings	
A (Front)	9 000
AU (Rear)	18 000
V - Rating	25 700

Lengths	
CL (Cab Length)	2 250
AC (1st Axle - Cab Wall)	880
CA (Cab Wall - Rear Axle)	3 021
CB (Cab Wall - Trailer)	260
CK (Trailer - Kingpin)	2 388
CE (Cab Wall - Chassis End)	4 481
NL/TL (Total Length)	6 730
KA (Standard 5th Wheel Lead)	373
VA (Front Overhang)	1 370
WB (Wheelbase)	3 900
WT (Rear Axle Spacing)	1 400
AE (Bogie - Chassis Rear)	1 460
ROH (Rear Overhang)	760

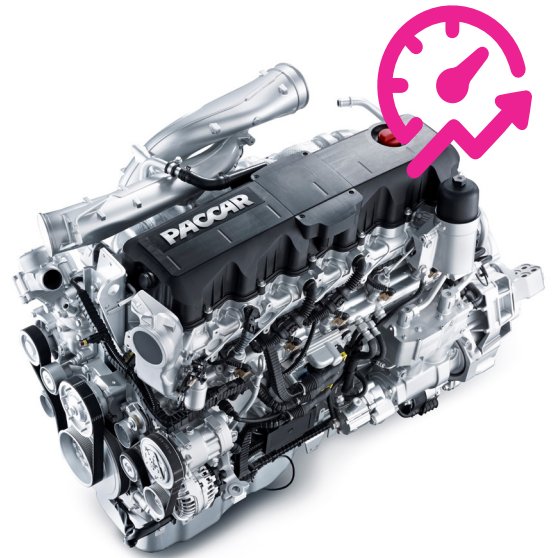
Heights	
Overall Cab Height (Unladen)	3 599
Chassis Height (Unladen)	1 162
Chassis Height (Laden)	1 107
Chassis - Kingpin Height	N/A

Widths	
TB (Chassis Cab Width)	2 490
RB (Chassis Width at Rear)	790
SB (Width Across Rear Tyres)	1 822

Turning Circle	
Kerb to Kerb (Full Lock Outer Radius)	7 525
Swept Circle (Full Lock Inner Radius)	5076

The power to perform

Designed for maximum transport efficiency, the XF105 empowers fleet owners to achieve low operating costs and higher profit margins. The benchmark for long-distance transport, the XF comes equipped with a 12.9 litre PACCAR MX engine, packed with 462 horsepower and 2300 Nm torque. The DAF-designed and produced engine combines exceptional performance with economical fuel consumption.



A partner you can trust

Our customers depend on us to provide aftermarket support around the country and we trust our people to deliver world class service and support.

Babcock Financial Services offers qualified customers customised financial packages. Think payment-free periods and personalised interest rates. All DAF trucks financed via Babcock Financial Services come with a customised repair and maintenance contract.

Help when you need it

Get 24/7 roadside assistance and support for breakdowns within South Africa with **DAF ON CALL**. All our DAF trucks come fitted with **Executrax**, our onboard gps tracking and fleet management system. In the event of theft or hijacking, our Executrax team will deploy emergency response services to your location.

An award-winning brand

DAF is the European market leader in the tractor-unit segment and Europe's second largest brand in the heavy truck segment. Some of their recent industry awards include:

DAF XF voted Fleet Truck of the Year 2019 at Motor Transport Awards (UK)

DAF XF voted Fleet Truck of the Year 2016 at Motor Transport Awards (UK)

DAF's New CF and XF voted International Truck of the Year 2018 (Europe)

DAF XF 105 tridem flatdeck overall top performer in Truck Test 2017 (South Africa)

DAF XF 105 tautliner interlink overall top performer in Truck Test 2015 (South Africa)





Babcock International Group - Africa
Transport Solutions

49 Great North Road, Brentwood Park, Benoni
Telephone: +27 (0)10 001 2561
Email: enquiries@babcock.co.za
www.babcock.co.za