

## Truck Chassis 6x4

### Series

**FAT CF75.250    FAT CF75.310**

**GVW max. 24600 kg<sup>2)</sup>**

Engine : PE 183 / PE 228 Euro III version

Gross Combination Mass<sup>1)</sup> : up to 38000 kg

### Weights in Kilograms

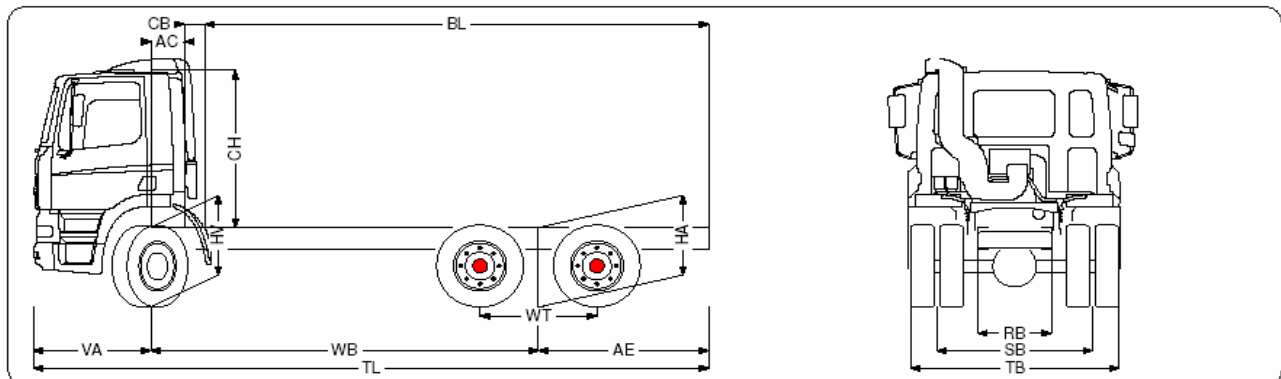
Model	Gross Design Vehicle Mass <sup>1)</sup>			2006 WB	Chassis and Cab Weight		
	Front	Rear	Total		Front	Rear	Total
<b>Day Cab</b>							
FAT CF75...405	6500	18100	24600	405	4110	3202	7312
FAT CF75...455	6500	18100	24600	455	4130	3210	7340
FAT CF75...500	6500	18100	24600	500	4148	3228	7376
FAT CF75...555	6500	18100	24600	555	4170	3270	7440
FAT CF75...600	6500	18100	24600	600	4180	3270	7450

**Chassis and Cab Weight calculated with:** F230 Tilt Cab, with 4 coil spring suspension, PE 228 engine, 2 x 175 Ah batteries, 8 S 151 gearbox, RT40-145 rear axles, 156N front axle, 260 mm chassis height, parabolic spring front suspension, Airglide 200 rear suspension, 1 x 430 litre aluminium fuel tank, silver steel disc wheels, 295 / 80 R 22.5 steer tyres, 11 R 22.5 drive tyres. All further equipment mentioned as standard.

**Note:** Chassis / cab weight with sleeper cab plus 105 kg and space cab plus 180 kg. All weights quoted are subject to a +/- 2% variability.

### Dimensions in metres

WB	TL	VA	AE	AC	CB	BL <sup>3)</sup>	CH	HV <sup>4)</sup>	HA <sup>5)</sup>	WT	RB	SB	TB
<b>Day Cab</b>													
4.05	7.43	1.38	2.00	0.39	0.24	5.42	1.86	1.04	1.06	1.37	0.86	1.82	2.49
4.55	8.88	1.38	2.95	0.39	0.24	6.87	1.86	1.04	1.06	1.37	0.86	1.82	2.49
5.00	9.28	1.38	2.90	0.39	0.24	7.27	1.86	1.04	1.06	1.37	0.86	1.82	2.49
5.55	9.88	1.38	2.95	0.39	0.24	7.87	1.86	1.04	1.06	1.37	0.86	1.82	2.49
6.00	10.98	1.38	3.60	0.39	0.24	8.97	1.86	1.04	1.06	1.37	0.86	1.82	2.49
<b>Sleeper Cab</b>													
4.05	7.43	1.38	2.00	0.82	0.24	4.99	1.86	1.04	1.06	1.37	0.86	1.82	2.49
4.55	8.88	1.38	2.95	0.82	0.24	6.44	1.86	1.04	1.06	1.37	0.86	1.82	2.49
5.00	9.28	1.38	2.90	0.82	0.24	6.84	1.86	1.04	1.06	1.37	0.86	1.82	2.49
5.55	9.88	1.38	2.95	0.82	0.24	7.44	1.86	1.04	1.06	1.37	0.86	1.82	2.49
6.00	10.98	1.38	3.60	0.82	0.24	8.54	1.86	1.04	1.06	1.37	0.86	1.82	2.49
<b>Space Cab</b>													
6.00	10.98	1.38	3.60	0.82	0.24	8.54	2.64	1.04	1.06	1.37	0.86	1.82	2.49



1) Subject to application approval.  
2) Front axle load based on tyre load index.

3) BL dimensions calculated on chassis dimensions.  
4) Laden height at centre of front axle.  
5) Laden height at centre of tandem axle.

## ENGINE

General:	6 cylinder, 24 valves. 9.2 litres.
Piston displacement:	17.4 to 1.
Compression ratio:	17.4 to 1.
Governor:	Electronically controlled. (UPEC).
Type:	<b>PE 183 C Euro III.</b>
Max. output:	183 kW / 250hp at 2200 rpm.
Max. torque:	1050 Nm / 774 lbft at 1100 - 1700 rpm.
Type:	<b>PE 228 C Euro III.</b>
Max. output:	228 kW / 310 hp at 2200 rpm.
Max. torque:	1275 Nm / 940 lbft at 1200 - 1700 rpm.

## CHASSIS

Completely flat-topped chassis frame. Riveted and bolted construction of channel-section main frame members and cross members.  
430-litre aluminium fuel tank.  
Horizontal box type exhaust silencer at RHS with vertical pipe. Side marker lamps. RHS with vertical pipe.  
Dimensions main frame members: 260 x 75 x 7 / 310 x 75 x 7 mm with inner reinforcement (position and length depending on WB/AE).

## GEARBOX

**8 S 151** : 4 speed main gearbox with range-change giving 8-speeds.  
**16 S 151**: 4 speed main gearbox with splitter group and range-change group giving 16 speeds.  
**MD 3060 / MD 3066**: Automatic gearbox with hydraulic torque convertor.  
**12 AS 1930**: 12 speed, automated manual, AS Tronic transmission.

	PE 183	PE 228
8 S 151 (11.59 – 0.84) and 16 S 151 (13.80 – 0.84)	X	X
9 S 109 (12.91 – 1.00) and 16 S 109 (13.41 – 1.00)	X	-
MD 3060 / 3066	X	-
12 AS 1930 (12.33 – 0.78)	-	X

## CLUTCH

Single, push-type (400 mm) or pull-type (430 mm), dry plate, asbestos free, hydraulically operated and pneumatically assisted. Self adjusting.

Diameter	400 mm	430 mm
9 S 109 / 16 S 109	X	-
8 S 151 / 16 S 151	-	X

## FRONT AXLE

Type: **156N**  
Max. design load: 7500 kg  
I-section axle. Stub axles with needle bearings.

### Optional:

- 152N

## REAR AXLE

Type: **Meritor RT40-145**  
Max. design load: 18100 kg  
Double drive tandem axle with spiral bevel gearing. Lockable inter axle, and axle differentials.  
Ratios: 3.73, 3.90, 4.11, 4.33, 4.63

## FRONT SUSPENSION

Parabolic type leaf springs with shackled ends at rear.  
Shock absorbers and stabilizer bar.  
Spring dimensions: 2 x 1800 x 80 x 32 mm (7500 kg)

## REAR SUSPENSION

Airglide 200 8 bag air suspension with shock absorbers, stabilizer bars, aluminium pedestals (18100 kg).

## WHEELS AND TYRES

22.5" (10 stud) steel disc wheels, with 295 / 80 R 22.5 tubeless radial tyres at front (wheel base dependent). 11 R 22.5 dual tyres at rear. Spare wheel with tyre.

### Optional:

- Alcoa aluminium disc wheels. - Wheel protection rings.

## STEERING

Type: Hydraulic power steering, with adjustable steering column for rake and height.

Turning circle	Between kerbs	Between walls
WB 3.90 m	13.60 m	15.10 m
WB 4.55 m	15.30 m	16.80 m
WB 5.00 m	16.50 m	18.00 m
WB 5.55 m	17.90 m	19.45 m
WB 6.00 m	19.10 m	20.60 m

(All given turning circles are under reservation).

## BRAKE SYSTEM

Dual-circuit air operated drum brakes on rear axles with automatic slack adjusters. Front axle air operated disc brakes.

Brake dimensions:  
Front axle 156N: 430 x 45 mm  
Tandem axle Meritor: 420 x 180 mm

Exhaust Brake.  
Emergency/parking brake: Spring brake actuators on front axle and 2<sup>nd</sup> tandem axle.

Trailer brake connection: 2-line.

**Optional:**  
- ABS/ASR. - ZF Intarder.

## ELECTRICAL EQUIPMENT

Voltage: 24 V  
Alternator: 80 A  
Batteries: 2 x 175 Ah

## TRAILER EQUIPMENT

Two 7-pole trailer connectors for light (12 V + 24 V) and accessories and one 5-pole (12 V) connector for ABS (if applicable). Rear light units incorporating direction indicator, tail light, stop light, rear fog light, reverse light and reflector.

## CAB EXTERIOR

- F230 tilt Day Cab with 4 coil spring suspension and hydraulic tilting device.
- Tilting angle 57.5°.
- Fixed, illuminated cab steps.
- Manually controlled roof hatch with reinforced glass.
- Heated main and wide angle mirrors.
- Steel front bumper with foot hold.
- Corner air deflectors.
- External sun visor.
- Combi lamps in bumper.

### Optional:

- Sleeper Cab.
- Side window (Sleeper Cab).
- Side collars.
- Rear window.
- Vehicle immobiliser.
- Electric adjustable main mirrors.
- Space Cab.
- Aerodynamic aids.
- Aluminium roof hatch.
- FUPS.

## COLOURS

- Choice of 21 basic solid cab colours and 3 chassis colours.
- Various non-standard and metallic cab colours.

## CAB INTERIOR

Completely equipped instrument panel. Servoshift gear shift system. Adjustable steering column. Adjustable air suspended driver seat and fixed co-driver seat with head restraint. Various storage facilities. Sleeper cab with 1 bunk and 2 large storage boxes underneath, left-hand side storage box accessible from the outside. 4-spoke, soft grip steering wheel. Electric window opener. Cruise control. Air conditioning. Integrated 3-point safety belt.

### Optional:

- Various driver/co-driver seats.
- Wood structure dashboard finish.
- Mechanical or electrical remote controlled door lock.
- 2<sup>nd</sup> bunk on Sleeper Cab and Space Cab.

## GENERAL EQUIPMENT

### Legal Aspects

- Exhaust emission according to Euro III.
- ECE 29 certified cab.
- EEC certified noise encapsulation.

### Application conditions

- Raised air intake on top of the roof. Set of tools. Heated air dryer.
- Air intake behind cab.

### Optional:

- Cyclonic type air filter.
- Acoustic reversing signal.
- Moisture separator.

## MAX. SPEED

Theoretical max. speed in km/h at 2200 rpm with 11 R 22.5 tyres.

Ratios, RT 40 – 145	3.73:1	3.90:1	4.11:1	4.33:1	4.63:1
16 S 151	136	130	124	118	110

Max. speed depending on gear ratios, tyres, superstructure, GCM and operating conditions. Road speed limited to 100 km/h.

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