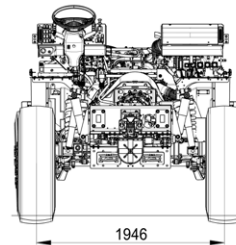
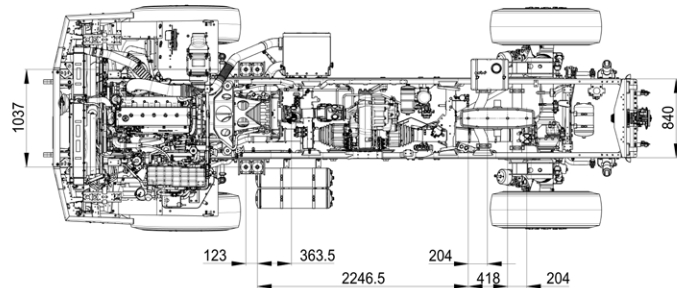
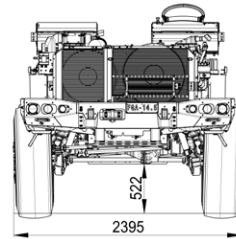
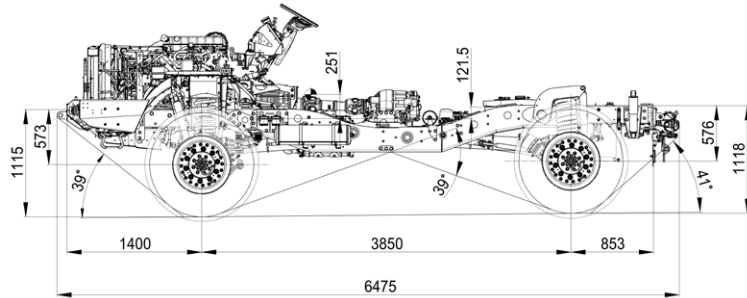


Mercedes-Benz Special Chassis

Technical Data

FGA 14.5



Chassis frame

- Extremely twistable frame consisting of 2 U-shaped longitudinal members and tubular cross members
- Preparation for three-point body mounting

Axes and suspension

- Permanent All-Wheel drive (4 x 4)
- Portal axles with differential locks front and rear, inter-axle locks and transverse locks
- Helical springs, telescopic shock-absorbers and stabilisers front and rear

Optional:

- Central tyre inflation system (CTIS) with four different driving modes (Highway, Cross, Mud, Emergency)

Steering

- Hydraulic power-assisted steering
- Turning circle Ø
At wheelbase 3,850 mm approx. 16.8 m

Brakes

- Disengageable
- EBD Electronic-Brake-Force-Distribution

Parking brake:

- Spring brake system acting on the rear wheel brake discs
- Holding brake at front axle (optional)
- Hill Start Assistant (optional)

Engine brake:

- 2-stage, actuated by multiple function lever at the steering column, with exhaust flap and constant throttle

Tyres

- Standard size 365 / 85 R20
- Optional size 395 / 85 R20

Optional:

- Run-flat system

Forcing

Serial Optional

800 mm 1,200 mm

Weights

- Gross vehicle weight, max. 14,500 kg
- Chassis payload, approx. 8,500 kg
- FA load, max. 7,000 kg
- RA load, max. 8,000 kg

Instruments

large instrument panel with LCD displays and controls for speed (km/h or mph) | engine-rpm | air pressure in braking system | cooling water temperature | fuel reserves | four wheel drive and differential locks engagement | outside temperature | brake lining wear | air filter maintenance | engine oil level | off-road gears, operating hours | mileage and trip mileage | sensing device for cooling water, water separator, steering oil and air filter | time | driver information system (FIS) | PTO engagement | antilock-braking system (ABS, disengageable) | optical and acoustic failure warning signals | tachograph (optional)

Lights

Standard:

- Two BI-halogen headlights (low/high beam)
- Two LED multifunction modules (indicator/position/daytime running lights)
- Two additional indicator lights (filament)
- Two 5-function modules (filament)
- Two LED licence plate lights

Optional:

- L12: LED lighting system
Scope like standard version but equipped with two BI-LED headlights (low/high beam), two additional LED indicator lights and LED 5-function rear module
- LE3: LED fog lights
- LK1/LK2: blackout marker light (bronze-/sand-coloured)
- LT1: blackout lighting (visible)



Engine		240 kW	260 kW (optional)
Emissions class		Euro 3	
Model		OM 926 LA	
Type		4-stroke diesel direct injection with turbocharger/intercooler	
No. of cylinders/arrangement		6 / inline	
Displacement	cm ³	7,200	
Max. output	kW	240	260
at rated engine speed	rpm	2,200	
Max. torque	Nm	1,300	1,400
at engine speed	tr/min	1,200 - 1,600	

Speeds and Transmission ratios (at rated engine speed of 2,200 rpm, axle ratio i = 6.94, tyres 365 / 85 R 20)

Gears	FGA 14.5		Basic gears		Off-road gears	
	Transmission ratio Allison 3500		i = 1.03		i = 3.949	
	forward	backward	forward	backward	forward	backward
1	4.59	5.00	13.9	12.8	3.6	3.3
2	2.25	-	28.4	-	7.4	-
3	1.54	-	41.5	-	10.8	-
4	1.00	-	63.9	-	16.7	-
5	0.75	-	85.2	-	22.2	-
6	0.65	-	98.3*	-	25.6	-

*Electronically limited, max. speed at 2,500 engine rpm: ca. 100 km / h (with tyres 365 / 85 R 20)

Electrical system 24 V	
· Alternator system with	210 A
· Starter motor	4 kW
· Battery capacity	2 x 12 V, each 100 Ah
· Battery main switch	
· Electrical interface system with quick-change function to simply (dis-)connect body/frame	
Optional:	
· Alternator system up to	400 A
· Trailer socket type	15-pin

Transmission	
· Fully-automatic 6-speed gear box (Allison 3500);	
· 2-speed transfer case with permanent all-wheel drive	
· 1 reverse gear	
· Manual gearbox (on request)	

Transmission ratios: see table

A/C compressor system	
· A/C compressor system with	9 kW
Optional:	
· A/C compressor system up to	13 kW or 16 kW

Hydraulic system (optional)	
· H19: hydraulic system without oil reservoir (incl. pump, belt drive and valve block)	
· HH3: hydraulic system with oil reservoir	

Trailer couplings	
· Tow-away coupling, front	

Optional:	
· Further trailer coupling types on request	

