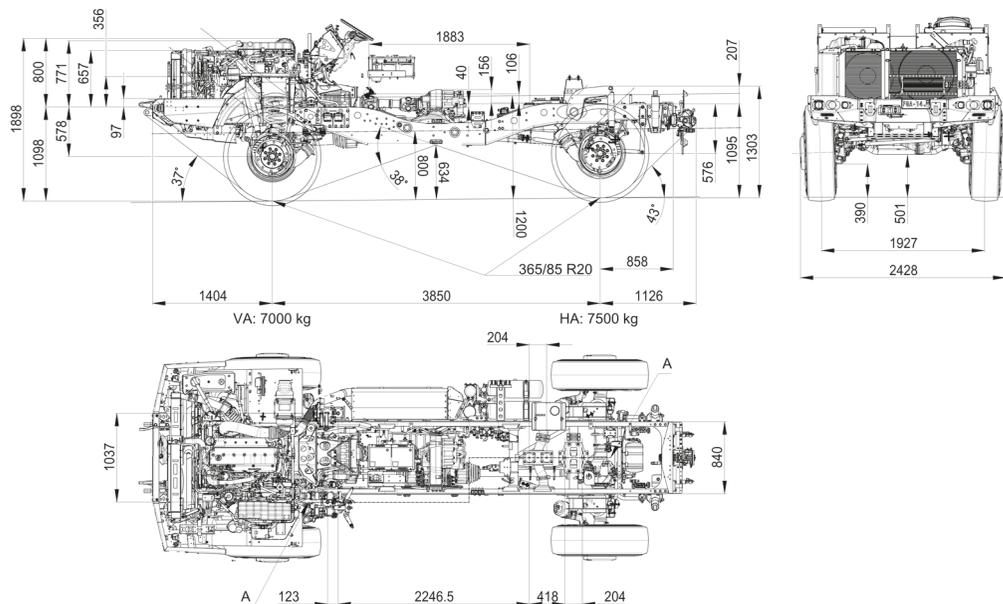


Mercedes-Benz Special Chassis

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

Axles and suspension

- Permanent All-Wheel drive (4x4)
- 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

Service brake

- Air brake twin circuit disc brakes with 4-channel ABS (disengageable)
- Automatic load responsive brake system (ALB)

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 ability

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 two LED 5-function modules rear
- LE3: LED fog lights
- LK1 /LK2: blackout marker light (bronze-/sand-coloured)
- LT1: blackout lighting (visible)



Engine	225 kW	
Emissions class	Euro 3	
Model	OM 926 LA	
Type	4-stroke diesel direct injection with turbocharger/intercooler	
No. of cylinders/arrangement	6 / inline	
Displacement	cc	7,200
Max. output	kW	225
at rated engine speed	rpm	2,200
Max. torque	Nm	1,200
at engine speed	rpm	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		i = 1.03		i = 3.949	
	Allison 3500		Vehicle speed in km/h			
	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 12V, 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 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

More information about the Mercedes-Benz Special Chassis are provided at www.mercedes-benz.com/defence-vehicles
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