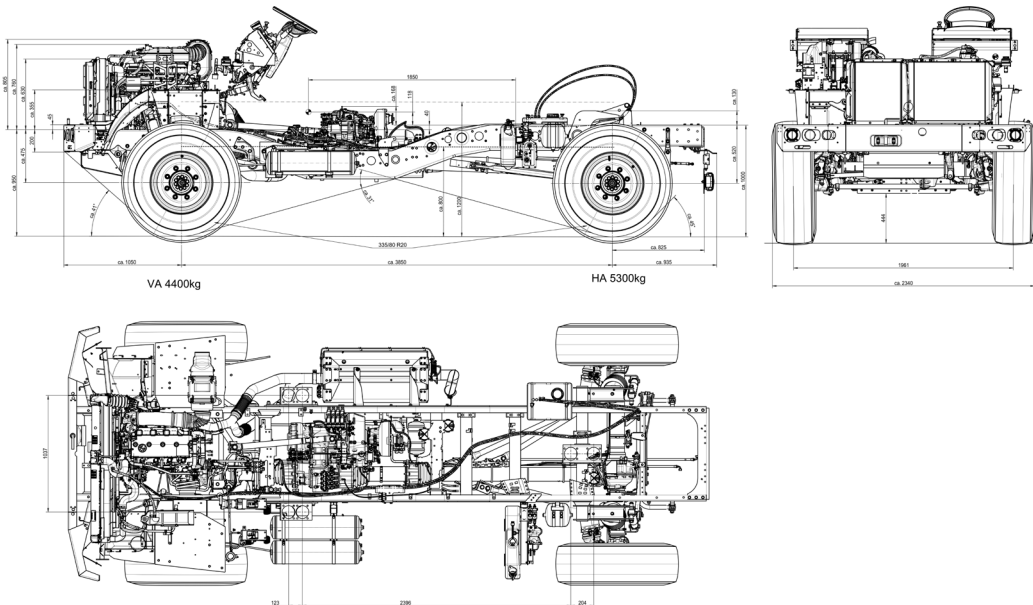


Mercedes-Benz Special Chassis

Technical Data – FGA 9.5



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

- 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: 4-channel central tyre inflation system (CTIS) Highway, Cross, Mud, Emergency.

Steering

- Hydraulic power-assisted steering
- Turning circle Ø
- At wheelbase 3,850 mm approx. 16.3 m
- At wheelbase 3,250 mm approx. 15 m

Optional: 3,250 mm wheelbase on request

Brakes

- 4 channel ABS (disengageable)
- Automatic load responsive brake system (ALB)
- Parking brake
- Spring brake system acting on the rear wheel brake
- Holding brake at front axle
- 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: 335 / 80 R20
- Optional size: 365 / 80 R20

Forcing ability

| Serial | Optional |
|--------|----------|
| 800 mm | 1,200 mm |

Weights

- Gross vehicle weight, max. 9,500 kg
- Chassis payload, approx. 5,500 kg
- FA load, max. 4,400 kg
- RA load, max. 5,300 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 | brake liquid level | 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 additional LED indicator lights and two LED 5-function modules rear
 - LE3 - LED fog lights



| | | |
|------------------------------|--|---------------|
| Engine | 160 kW (218 hp) | |
| Emission class | Euro 5 (Optional: Euro 3 on request) | |
| Model | OM 924 LA | |
| Type | 4-stroke diesel direct injection with turbocharger/intercooler | |
| No. of cylinders/arrangement | 4 / inline | |
| Displacement | cc | 4,800 |
| Max. output | kw | 160 |
| at rated engine speed | rpm | 2,200 |
| Max. torque | Nm | 810 |
| at engine speed | rpm | 1,200 - 1,600 |

Speeds and Transmission ratios (At rated engine speed of 2,200 rpm, axle ratio $i = 6.527$, tyres 335 / 80 R 20)

| Gears | FGA 9,5 | | Basic gears | | Off-road gears | |
|-------|--------------------|----------|-----------------------|----------|----------------|----------|
| | Transmission ratio | | $i = 1.0$ | | $i = 3.19$ | |
| | | | Vehicle speed in km/h | | | |
| | forward | backward | forward | backward | forward | backward |
| 1 | 9.57 | 14.57 | 8.51 | 5.59 | 2.67 | 1.75 |
| 2 | 6.64 | 10.10 | 12.27 | 8.06 | 3.85 | 2.53 |
| 3 | 4.38 | 6.66 | 18.62 | 12.23 | 5.84 | 3.83 |
| 4 | 3.22 | 4.90 | 25.30 | 16.62 | 7.93 | 5.21 |
| 5 | 2.19 | 3.33 | 37.22 | 24.46 | 11.67 | 7.67 |
| 6 | 1.52 | 2.31 | 53.69 | 35.27 | 16.83 | 11.06 |
| 7 | 1.00 | 1.52 | 81.44 | 53.51 | 25.53 | 16.77 |
| 8 | 0.74 | 1.12 | 110* | 72.72 | 34.69 | 22.80 |

*Electronically limited, 100 km / h (with tyres 335 / 80 R 20)

| | |
|---|----------------------|
| Electrical system 24 V | |
| · Alternator system with | 100 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 | 200 A |
| · Trailer socket type | 15-pin |

Transmission

- Fully synchronized MB 8-speed electropneumatically shifting (EPS) gear box with integrated transfer box and pneumatically switched drive for both axles
 - 6 reverse gears
 - Electronic Quick Reverse (EQR) for electropneumatically forward/reverse shifting
- Optional
- Off-road gears
 - Electric automated shift (EAS)

Transmission ratios: see table

| | |
|-------------------------------|------|
| A/C compressor system | |
| · A/C compressor system with | 6 kW |
| Optional: | |
| · A/C compressor system up to | 9 kW |

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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