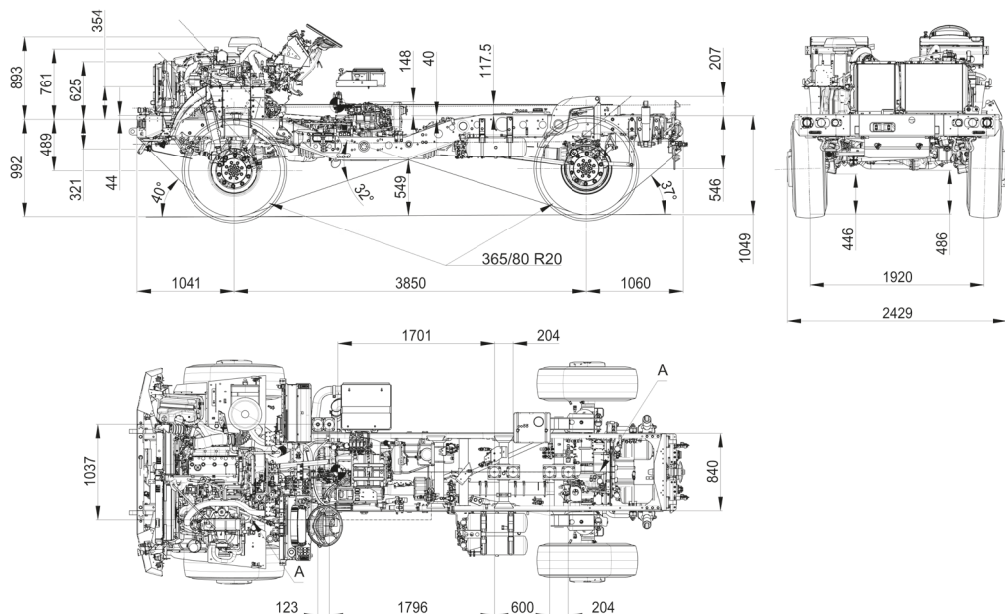


Mercedes-Benz Special Chassis Technical Data - FGA 12.5 / 13



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

- Switchable All-Wheel drive (4x4)
- Portal axles with differential locks front and rear, wheel hub drives, panhard rods and torque tubes
- 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. 16.3 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 / 80 R20
- Optional sizes: 365 / 85 R20, 395 / 85 R20
- Optional: Run-flat system

Fording ability

	Serial	Optional
	800 mm	1,200 mm

Weights

	Serial	Optional
· Gross vehicle weight, max.	12,500 kg	13,000 kg
· Chassis payload, approx.	7,500 kg	8,000 kg
· FA load, max.	6,000 kg	6,000 kg
· RA load, max.	6,800 kg	7,100 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 | time | driver information system (FIS) | PTO engagement | antilock-braking system (ABS) | optical and acoustic failure warning signals | tacho-graph (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		163 kW	
Emissions class	Euro 3		
Model	OM 924 LA		
Type	4-stroke diesel direct injection with turbocharger/intercooler		
No. of cylinders/arrangement	4, inline, upright		
Displacement	cc	4,800	
Max. output	kW	163	
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 = 6.94, tyres 365 / 80 R 20)

Gears	FGA 12.5		Basic gears		Off-road gears (optional G 20)	
	Transmission ratio		i = 1.0		i = 5.76	
	Vehicle speed in km/h					
	forward	backward	forward	backward	forward	backward
1	9.57	14.56	6.5	4.3	1.1	0.7
2	6.63	10.10	9.4	6.2	1.2	1.1
3	4.37	6.66	14.2	9.4	2.5	1.6
4	3.12	4.90	19.4	12.7	3.4	2.2
5	2.18	3.33	28.5	18.7	4.9	3.3
6	1.51	2.30	41.1	27.0	7.1	4.7
7	1.00	1.52	62.3	-	10.8	7.1
8	0.73	1.12	84.6*	-	14.7	9.7

*Electronically limited, max. speed at max. engine RPM: ca. 98 km / h (with tyres 365 / 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 EAS	
· Fully synchronised 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	
· Electronic automated gearshift (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

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

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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