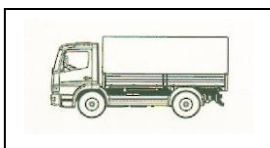


Medium Tactical Trucks
(4x2) and (4x4)
Atego

distribution for defence



Mercedes-Benz



Medium Tactical Trucks Model Atego (4x2) and (4x4)

1998

Medium Tactical Trucks

Model Atego (4x2) and (4x4)

Vehicle Type	Payload	Wheelbase (mm)	Type	Engine Output EURO IV	Mx. Torque
917 (4x2)	n/a	n/a	n/a	n/a	n/a
1017 A (4x4)	n/a	n/a	n/a	150 hp	n/a
1018 A (4x4)	3 – 5 to	3,260 / 3,600	R4	130 kW / 177 hp	675 Nm
1023 (4x2)	3 to	3,200	n/a	170 kW / 231 hp	n/a
1023 A (4x4)	3 to	3,200 / 3,600	R4	170 kW / 231 hp	n/a
1024 A (4x4)	3 – 5 to	3,260	R6	175 kW / 238 hp	850 Nm
1223	n/a	n/a	n/a	n/a	n/a
1225	n/a	n/a	n/a	n/a	n/a
1317	n/a	n/a	n/a	n/a	n/a
1318 A (4x4)	3 – 5 to	3,260 / 3,560	R4	130 kW / 177 hp	675 Nm
1323 A (4x4)	3 – 5 to	3,260 / 3,560 / 4,200	R6	170 kW / 231 hp	810 Nm
1324 A (4x4)	3 – 5 to	3,260 / 3,560	R6	175 kW / 238 hp	850 Nm
1325	n/a	n/a	n/a	n/a	n/a
1328 A (4x4)	5 to	n/a	n/a	170 kW / 231 hp	810 Nm
1523 A (4x4)	4 to	3,600 / 3,900	R6	170 kW / 231 hp	810 Nm
1524 A (4x4)	3 – 5 to	3,260 / 3,560	R6	175 kW / 238 hp	850 Nm
1526 A (4x4)	3 – 5 to	3,260 / 3,560	R6	188 kW / 256 hp	970 Nm
1528 A (4x4)	4 to	3,600 / 3,900	R6	205 kW / 280 hp	1,100 Nm
1529 A (4x4)	3 – 5 to	3,260 / 3,560	R6	210 kW / 286 hp	1,120 Nm
1823 A (4x4)	6 to	3,600 / 3,900	R6	170 kW / 231 hp	810 Nm
1828 A (4x4)	6 to	3,600 / 3,900	R6	205 kW / 280 hp	1,100 Nm
		4,200 / 4,500			

Background

The Mercedes-Benz Atego – the medium-weight, semi-heavy-duty truck series – offers a GVW ranging from 6.5 to 26 tonnes. Such trucks have been designed for every-day second-line duties incorporating semi-tactical capabilities, though off-road performance fulfils most operational requirements of today armed forces. The Mercedes-Benz Atego truck was unveiled to the public at the RAI International Commercial Vehicle Motor Show in Amsterdam (February 5 to 15, 1998). In September 1998 a second line complemented the Mercedes-Benz Actros range with models in the 18-ton to 26-ton category developed for heavy-duty short radius distribution. Mercedes-Benz offers the Atego range of trucks in 42 basic versions as well as 17 basic (4x4) varieties.

Technical Description

The layout of the Mercedes-Benz Atego family of medium tactical trucks is conventional with spacious forward-control cab at the front and a platform either with tarpaulin for troop transport or shelters for special applications at the rear. Militarised to suit specific operational requirements the Mercedes-Benz Atego is based on the vast range of commercial trucks in production with Mercedes-Benz. Although developed for commercial and military applications the Mercedes-Benz Atego family of trucks is designed to be of lighter construction with less powerful engines. Nevertheless the Atego shows a higher payload to GVW ratio if compared with the high-mobility trucks of the Actros range. The Mercedes-Benz Atego represents the successor model to the Mercedes-Benz LN-2 series.

The two-door all-steel cab has ample space for the driver and up to two co-drivers while the front flap gives easy access to all maintenance checkpoints. For maintenance the cab can be tilted forward to give access to the engine, transmission and parts of the driveline. A sleeper cab can be supplied with or without bunks and a high-roof version is optional. Enhanced heating or an air-conditioning system can be fitted as well. The basic vehicle is equipped with standard drop side cargo body and tarpaulin.

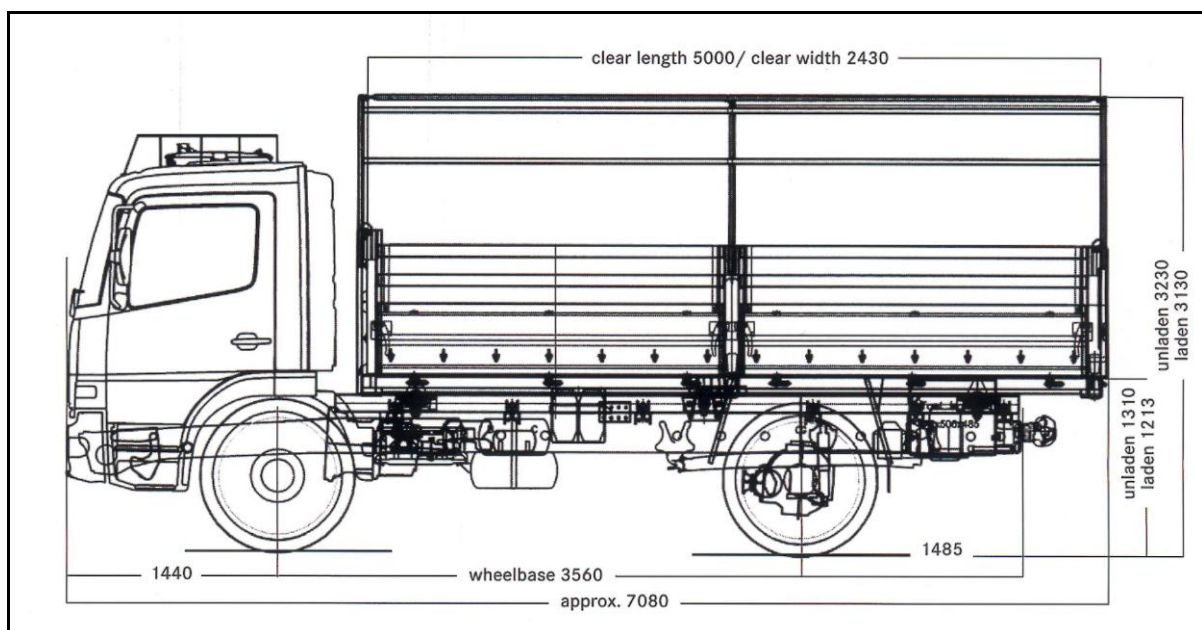
A materials-handling crane and a front-mounted winch may be added as well as a light-weapons mount on the cab roof. Front impact protection is also available. All vehicle components are derived from the Mercedes-Benz large-scale series production line and are likely to reflect the continuous minor design changes and specification upgrades of the commercial range as well.

The Mercedes-Benz Atego is powered by the Mercedes-Benz 900 series of four- (R4) and six- (R6)-cylinder in-line turbocharged and intercooled diesel engines which are Euro II emissions compliant. Equipped with the latest and powerful R4 and R6 engines offering different outputs ranging from 130 kW (177 hp) with 675 Nm torque to full power of 210 kW (286 hp) with 1,120 Nm torque Atego vehicles are available with emission-reduced Euro II and Euro III engines as well. Euro IV and Euro V compliant engines are in development and will be available in the near future. The Euro IV version will develop 240 hp.

Driveline components are taken from proven commercially available parts. While all axles have leaf-springs driven axles feature planetary hub reduction gearing. Differential locks and inter-axle differential locks can be operated while on the move. A manual and Telligent® automatic gearshift system with electronic selection and pneumatic shifting is available for the heavier (4x2) models, while a Telligent® on-board BITE (Built-In-Test-Equipment) to reduce day-to-day maintenance work is standard. All aggregates including the two-speed transfer box integrated with the gearbox are well protected against dust, mud and water. Drive shafts are fitted within sealed-off torque tubes. Thus, the fording capability has been increased to 120 cm.

All Atego trucks can be fitted with single tyres up to 365 / 85 R 20 size in order to achieve optimal off-road performance. Though, in addition (4x2) variants with a dual rear tyre arrangement representing the basic commercial variant are on offer for military applications as well. Atego Models 1318 and 1323 with payloads of up to 5,000 kg are also offered with a 6,200 mm wheelbase for the (4x2) configuration.

The Mercedes-Benz Atego is fitted with a anti-lock braking system (ABS) as standard, while a special Central Tyre Inflation System (CTIS) is optional.



Mercedes-Benz Atego 1318 A (4x4) – Basic dimensions in mm

Mercedes-Benz Atego trucks are offered in principle with a wheelbase of 3,260 mm with most of them are also available with a wheelbase of 3,560 mm.



Left: Mercedes-Benz Atego 1323 A, the tactical variant with protected front lights and the capability to fit a ring-mount for a GPMG. Right: Mercedes-Benz Atego 1323 A with single tyres showing a three-tone camouflage pattern for an export customer.



For military applications the Mercedes-Benz Atego family of vehicles can be fitted with black-out lighting circuit, protected headlights, roof hatch of swivel type, centre seat or standing plate, military-type coupling for towing trailers or artillery pieces, special battery main switch, rifle racks, Auxiliary Power Unit (APU) connections, and additional towing and recovery equipment such as winches. Optional are specific features for operation in extreme climates.

The large variety of bodies in addition to the bodies mentioned above include also tanker, dump and light recovery hamper variants.

Medium Tactical Trucks Atego (4x4)		
Model	Ausführung	Medium Tactical Truck
Type	Typ	MB 1018 A (4x4) Atego
Manufacturer	Hersteller	Mercedes-Benz / DaimlerChrysler AG, Department VL/FR – HPC 161 D-76742 Woerth, Germany
Introduction into service	Einführung	1998
Cab seating	Sitzplätze Fahrerhaus	1 + 1 or 2
Seats (rear)	Sitzplätze (hinten)	n/a
Configuration	Antriebsformel	4 x 4
Weight	Gewicht	
Weight empty chassis	Militärisches Leergewicht	n/a
Weight loaded, road (GVW)	zulässiges Gesamtgewicht	n/a
Weight on front axle (loaded)		n/a
Weight on rear axle (loaded)		n/a
Payload	Nutzlast	3,000 kg
Max. load (road)	außergewöhnliche Belastung (Straße)	5,000 kg
Max. load (cross-country)	außergewöhnliche Belastung (Gelände)	n/a
Towed load (road)	zulässige Anhängelast (Straße)	n/a
Towed load (cross-country)	zulässige Anhängelast (Gelände)	n/a
Load area	Ladefläche	n/a
Length (wheelbase 3,260 mm)	Länge (Radstand 3.260 mm)	n/a
Width	Breite	n/a
Height (cab)	Höhe Fahrerhaus	n/a
Height (chassis, front)	Höhe (Chassis vorne)	n/a
Height (chassis, rear)	Höhe (Chassis hinten)	n/a
Body (wheelbase 3.600 mm)	Koffer (Radstand 3.600 mm)	n/a
Height (load area)	Ladehöhe über Boden	n/a
Ground clearance	Bodenfreiheit	n/a
Track (front)	Spurweite (vorne)	n/a
Track (rear)	Spurweite (hinten)	n/a
Wheelbase	Radstand	n/a
Angle of approach	Böschungswinkel vorne	n/a
Angle of departure	Böschungswinkel hinten	n/a
Chassis frame	Rahmen	n/a
Max speed (road)	Höchstgeschwindigkeit	n/a

Range	Fahrbereich (Straße)	n/a
Fuel capacity	Kraftstoff-Vorrat	n/a
Fuel consumption	Kraftstoff-Verbrauch	n/a
Gradient	Steigfähigkeit	80 %
Side slope	Querneigung, Kippgrenze	n/a
Fording (standard)	Wadfähigkeit (ohne Watsatz)	n/a
Fording (with kit)	Wadfähigkeit (mit Watsatz)	120 cm
Engine	Motor	4-cylinder in-line turbocharged and intercooled diesel engines
Designation	Bezeichnung	n/a
Bore x Stroke	Bohrung x Hub (mm)	n/a
Displacement	Hubraum (ccm)	n/a
Output	Leistung KW (PS)/min ⁻¹	130(177) at 1,600 rpm
Torque, max.	Drehmoment (Nm / kpm)	675 Nm at 1,600 rpm
Cooling	Kühlung	water-cooled
Power transfer	Kraftübertragung	All-wheel drive
Transmission	Getriebe	G-85-6 transmission with 6 gears
Steering	Lenkung	hydraulic power-assisted: ZF 8095
Turning circle (short and long wheelbase)	Wendekreis	14.5 m / 16.5 m
Axles	Achsen	n/a
Suspension (front)	Radaufhängung (vorne)	leaf-spring
Suspension (rear)	Radaufhängung (hinten)	leaf-spring
Tyres	Bereifung	365 / 85 R 20
Brake (main)	Betriebsbremse	Dual circuit
Brake (parking)	Feststellbremse / Handbremse	mechanical
Brake (engine)	Motorbremse	n/a
Electrical system	Fahrzeugelektrik	n/a
Alternator (reinforced)	Wandler	n/a
Starter motor	Starteinrichtung	n/a
Batteries	Batterien	n/a
Trailer socket type	Anhängeranschluß	n/a
Trailer couplings (optional)	Anhängerkupplung	Front: towing eye, integrated in bumper. Rear: (option) trailer coupling, automatic with jaw or hook-type (NATO-standard)



The Mercedes-Benz Atego shows a state-of-the-art cab layout for save and comfortable driving. Three full-size seats, suitable for cross-country and for long-distance missions, foldable centre seat and military roof hatch are optional for military applications. The shown vehicle will go to Gabon.

Sales and Service Entry

The medium truck Mercedes-Benz Atego has entered service with the armed forces of Finland, Gabon, Germany, Ireland, The Netherlands, Norway, Taiwan, the UK and the USAF. Several undisclosed armed forces in Europe, the Far East and Middle East have been supplied with Atego trucks as well. Even the USAF belongs to the increasing numbers of users entering the club with two leased Mercedes-Benz Atego 1528 fire engines with ladder and Metz body DLK 23-12 PLC III.

Finland has procured more than 100 Mercedes-Benz Atego trucks with deliveries continuing on an ad hoc basis in batches of 20 to 30 units.



The Telligent® electronically controlled braking system offers a reduced stopping distance, though only for the (4x2) variants.



Protected and waterproof head and blackout lights are optional as well as the front-mounted winch and the auxiliary crane of this vehicle.



Various impressions of the Mercedes-Benz Actros range of trucks in active service.

Top left: A Mercedes-Benz Atego 1828 one of several different Atego models in service with the German Armed Forces.

Top right and above: Mobile recruiting offices of the German Armed Forces. The Mercedes-Benz Atego 917 gives advice to potential recruits, while the tractor-truck combination hauled by a Mercedes-Benz Atego 1328 has a far greater capacity for the same purpose. Colourful markings and advertisements make this vehicles a popular sight on every day of open house. Are the colourful promises kept?

Left: The tactical Atego (4x4) vehicle with the new front grille design of 1998. The torsionally stiff design while negotiating marginal terrain is shown to some extent.

Medium Tactical Trucks Atego (4x4)		
Model	Ausführung	Medium Tactical Truck
Type	Typ	MB 1318 A (4x4) Atego
Manufacturer	Hersteller	Mercedes-Benz / DaimlerChrysler AG, Department VL/FR – HPC 161 D-76742 Woerth, Germany
Introduction into service	Einführung	n/a
Cab seating	Sitzplätze Fahrerhaus	1 + 1 or 2
Seats (rear)	Sitzplätze (hinten)	n/a
Configuration	Antriebsformel	4 x 4
Weight	Gewicht	
Weight empty chassis	Militärisches Leergewicht	6,400 kg
Weight loaded, road (GVW)	zulässiges Gesamtgewicht	13,500 kg
Weight on front axle (loaded)		5,000 kg
Weight on rear axle (loaded)		9,000 kg
Payload	Nutzlast	5,000 kg
Max. load (road)	außergewöhnliche Belastung (Straße)	7,100 kg
Max. load (cross-country)	außergewöhnliche Belastung (Gelände)	n/a
Towed load (road)	zulässige Anhängelast (Straße)	n/a
Towed load (cross-country)	zulässige Anhängelast (Gelände)	n/a
Load area	Ladefläche	500 cm x 243 cm
Length (wheelbase 3,260 mm)	Länge (Radstand 3.260 mm)	708 cm
Width	Breite	appr. 240 cm
Height with tarpaulin	Höhe mit Plane	323 cm
Height laden	Höhe mit Ladung	313 cm
Height (load area)	Ladehöhe über Boden	131cm
Ground clearance	Bodenfreiheit	n/a
Track (front)	Spurweite (vorne)	n/a
Track (rear)	Spurweite (hinten)	n/a
Wheelbase	Radstand	3,560 mm
Angle of approach	Böschungswinkel vorne	n/a
Angle of departure	Böschungswinkel hinten	n/a
Chassis frame	Rahmen	n/a
Max speed (road)	Höchstgeschwindigkeit	85 km/h
Range	Fahrbereich (Straße)	n/a
Fuel capacity	Kraftstoff-Vorrat	125 ltr.
Fuel consumption	Kraftstoff-Verbrauch	n/a
Gradient	Steigfähigkeit	80 %
Side slope	Querneigung, Kippgrenze	n/a
Fording (standard)	Watfähigkeit (ohne Watsatz)	n/a
Fording (with kit)	Watfähigkeit (mit Watsatz)	120 cm
Engine	Motor	4-cylinder 4-stroke diesel engines
Designation	Bezeichnung	OM 904 LA Euro III
Bore x Stroke	Bohrung x Hub (mm)	102.0 x 130.0 mm
Displacement	Hubraum (ccm)	4,249 ccm
Output KW (hp)	Leistung KW (PS)/min ⁻¹	130(177) at 2,200 rpm
Torque, max.	Drehmoment (Nm / kpm)	675 Nm at 1,200 rpm
	Verdichtung	n/a
Cooling	Kühlung	water-cooled
Power transfer	Kraftübertragung	All-wheel drive
Transfer case	Verteiler-Zwischengetriebe	Mercedes-Benz VG 550-3W/1,67 with differential lock
Clutch	Kupplung	Dry single-plate with hydraulic control, self-adjusting type MF 362
Transmission	Getriebe	all synchromesh G-60-6 9.20-1.0 transmission with 6 gears
Steering	Lenkung	MB hydraulic LS 6
Turning circle (short and long wheelbase)	Wendekreis	appr. 15 m

Axles, front	Vorderachsen	AL 3/040 D-6
Axles, rear	Hinterachsen	HL 3/040 DS – 10.8 (gear ratio(standard) i= 4.75)
Suspension (front)	Radaufhängung (vorne)	leaf-spring
Suspension (rear)	Radaufhängung (hinten)	leaf-spring
Tyres	Bereifung	10 R 22.5; other sizes or single tyres are optional like 12.00 R 20
Brake (main)	Betriebsbremse	Dual circuit compressed air with automatic load sensitive control; ABS
Brake (parking)	Feststellbremse / Handbremse	mechanical
Brake (engine)	Motorbremse	n/a
Electrical system	Fahrzeugelektrik	NATO-electric (optional), blackout lights and external (slave) starter socket (optional)
Alternator (reinforced)	Wandler	28 V / 80 A
Starter motor	Starteinrichtung	n/a
Batteries	Batterien	2 x 12 V / 115 Ah
Trailer socket type	Anhängeranschluß	n/a
Trailer couplings (optional)	Anhängerkupplung	Front: towing eye, integrated in bumper. Rear: (option) trailer coupling, automatic with jaw or hook-type (NATO-standard)



Demonstrator vehicle
Mercedes-Benz Atego
2003



Militarised to suit specific operational requirements the Mercedes-Benz Atego is based on the vast range of commercial trucks in production with Mercedes-Benz. Although developed for commercial and military applications the Mercedes-Benz Atego family of trucks is designed to be of lighter construction with less powerful engines. Nevertheless the Atego shows a higher payload to GVW ratio if compared with the high-mobility trucks of the Actros range.



This page:

Mercedes-Benz Atego 1328 A (4x4), Payload 5 to

The front grille arrangement varies from earlier models.

This demonstration vehicle incorporates a vast array of options such as protected front and rear lights.

This truck has been prepared for wading with a sealed driveline and brakes arrangement and the air valves for the engine positioned in the mid of the vehicle have been fitted in a raised position.



Below: Shown in Paris in 2006 were the new seats of Müller Fahrzeugbau as ordered for the Austrian Armed Forces (Bundesheer). Such seats give a considerable degree of safety against mine blasts.



