

TEKNİK FREN

DİNGİL OTOMOTİV SAN. TİC. LTD. ŞTİ.

CATALOGUE · MERCEDES-BENZ ATEGO

Mercedes Atego Additional Axle Conversion

15 → 22 TONNES

Mercedes Atego additional axle: 4160 KK, 4160 UK and 5360 UK dimension tables, automatic axle lift mechanism.

WE DESIGN TO THE NEED.

ISO 9001

TSE

TÜV-SÜD

VCA

SGS

CATALOGUE

Mercedes-Benz Atego 1518 · Euro 6



— THE ATEGO IS NOW AT TEKNİK FREN

Atego: from 15,000 kg to 22,000 kg

The Mercedes Atego 1518 additional axle conversion raises your vehicle's gross vehicle weight from 15,000 kg to 22,000 kg. The conversion combines an additional axle with a chassis (frame) extension.

Three variants are available: 4160 KK, 4160 UK and 5360 UK. Depending on the variant, the maximum body length ranges from 6,700 mm to 8,600 mm.

We carry out the modification using the original components used by the vehicle manufacturer and manage the testing, engineering documentation and certification processes in-house.



✓ Additional axle + chassis extension

✓ Automatic axle lift mechanism

✓ 3 different variants

✓ Euro 6 Atego 1518

GROSS VEHICLE WEIGHT

22,000

kg

BEFORE MODIFICATION

15,000

kg

WHEELBASE

4160+1320

mm

MAX. BODY LENGTH

8,600

mm

Atego 22-tonne dimensions and weights

ATEGO (from 15,000 kg to 22,000 kg): all three variants.



SPECIFICATION	4160 KK	4160 UK	5360 UK
DIMENSIONS (MM)			
Wheelbase	4160 + 1320	4160 + 1320	5360 + 1320
Length (excluding body)	9,040	8,740	10,640
Front overhang	1,440	1,440	1,440
Rear overhang (with body, max.)	2,520	2,220	2,920
Start of body – end of bumper	7,100	6,300	8,200
Maximum length	9,440	9,140	11,040
Maximum width	2,550	2,550	2,550
Maximum body length	7,500	6,700	8,600
WEIGHTS (KG)			
Gross vehicle weight (GVW)	22,000	22,000	22,000
Kerb weight	5,800	5,800	6,000
Front axle capacity	5,100	5,100	5,100
1st rear axle capacity	10,900	10,900	10,900
2nd rear axle capacity	9,000	9,000	9,000

Features of the automatic axle lift mechanism

The axle lift mechanism is operated by 2 buttons on the dashboard in the cab, which lower and raise the axle.

01 The vehicle is equipped with a load- and speed-sensitive, electronically controlled axle lift system.

02 To activate the system, simply press the automatic axle lift button.

03 When the vehicle is laden and travelling below 30 km/h, the additional axle can be raised to improve traction and manoeuvrability on slippery surfaces.

04 Pressing and holding the manual axle lift button, located right next to the automatic button, raises the additional axle for a short time.

05 Once the vehicle exceeds 30 km/h, the additional axle lowers automatically, even if the button is held down.



WE DESIGN **TO THE NEED.**

Six steps from analysis to delivery. Our processes are designed to interlock with the vehicle manufacturer's, which means maximum transparency and minimum lead time.



01

Market and Needs Analysis

We analyse the need against technology, market, regulatory and price criteria and define a realistic solution.



02

3D CAD Design

Design down to the smallest detail. Using 3D CAD speeds up the transition to series production and minimises design errors.



03

Risk Analysis

Sustainability, maintenance and after-sales considerations are built into the design, and risks are assessed rigorously.



04

Prototype and Road Testing

Our dedicated prototype team prepares the vehicle; durability and long-distance road tests are carried out with our GPS-linked test equipment.



05

Homologation

Tests are carried out with authorised technical services, the engineering documentation (project file) is prepared and an application for certification is submitted to TSE.



06

Delivery

The new configuration is programmed into the vehicle's ECU using our diagnostic equipment, and the vehicle is handed over.



How does the homologation process work?

Approval from the competent authorities is mandatory for the modification or manufacture of a vehicle. We manage this entire process with our authorised in-house engineers.



Preliminary development tests

On the prototypes we design, we carry out our preliminary tests with our own test equipment and under the supervision of our specialist engineers, just as a vehicle manufacturer would.



Authorised technical service tests

Together with technical services authorised by the Ministry of Science, Industry and Technology of the Republic of Türkiye, the technical units affected by the modification are tested and the test reports are obtained.



Engineering documentation and TSE application

The engineering documentation (project file) for the modified vehicle is prepared and an application for certification is submitted to TSE.



Road tests with GPS-linked equipment

We carry out durability and long-distance road tests on the prototype vehicles designed for our projects using our dedicated GPS-linked test equipment, collecting data in real time.

- ✓ Durability tests
- ✓ Long-distance road tests
- ✓ Real-time data collection
- ✓ Our own test equipment

ISO 9001

Quality assurance standard

TSE

Turkish Standards Institution

TÜV-SÜD

Approval and accreditation

VCA

Approval and accreditation

SGS

Approval and accreditation

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CONTACT

WE DESIGN TO THE NEED.

Teknik Fren specialises in optimising and completing truck manufacturers' product ranges. Our aim is to maximise the profitability of trucks on a sustainable basis.

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EXPORT

Committed to adding value to its country's economy, our company also delivers its solutions to customers abroad.

IT Italy

ES Spain

CZ Czechia

UZ Uzbekistan

RU Russia

CERTIFICATES AND APPROVALS

ISO 9001

TSE

TÜV-SÜD

VCA

SGS

Organisations we have served since the day we were founded.

ANADOLU ISUZU

OTOKAR

DEFENCE INDUSTRY