

# MERCEDES-BENZ WHEEL ALIGNMENT

CAMERA TECHNOLOGY FOR YOUR WORKSHOP



Powered by



**JOSAM®**



# INVEST IN MODERN TECHNOLOGY TO GROW YOUR BUSINESS

- Homologated by Mercedes-Benz for trucks, buses and light commercial vehicles.
- Measurement values integrated into Mercedes-Benz warranty claim sheet.
- Guided measurement procedures according to Mercedes-Benz principles and specifications.









# INCREASE YOUR TURNOVER

- A quicker and modern way will enable you to diagnose a vehicle in matter of minutes. This will increase your turnover as many vehicles are subject to being adjusted.
- Diagnosis could also create spin-off activities such as sales of suspension related spare parts (bushings, tie rods, ball joints, bearings etc.).



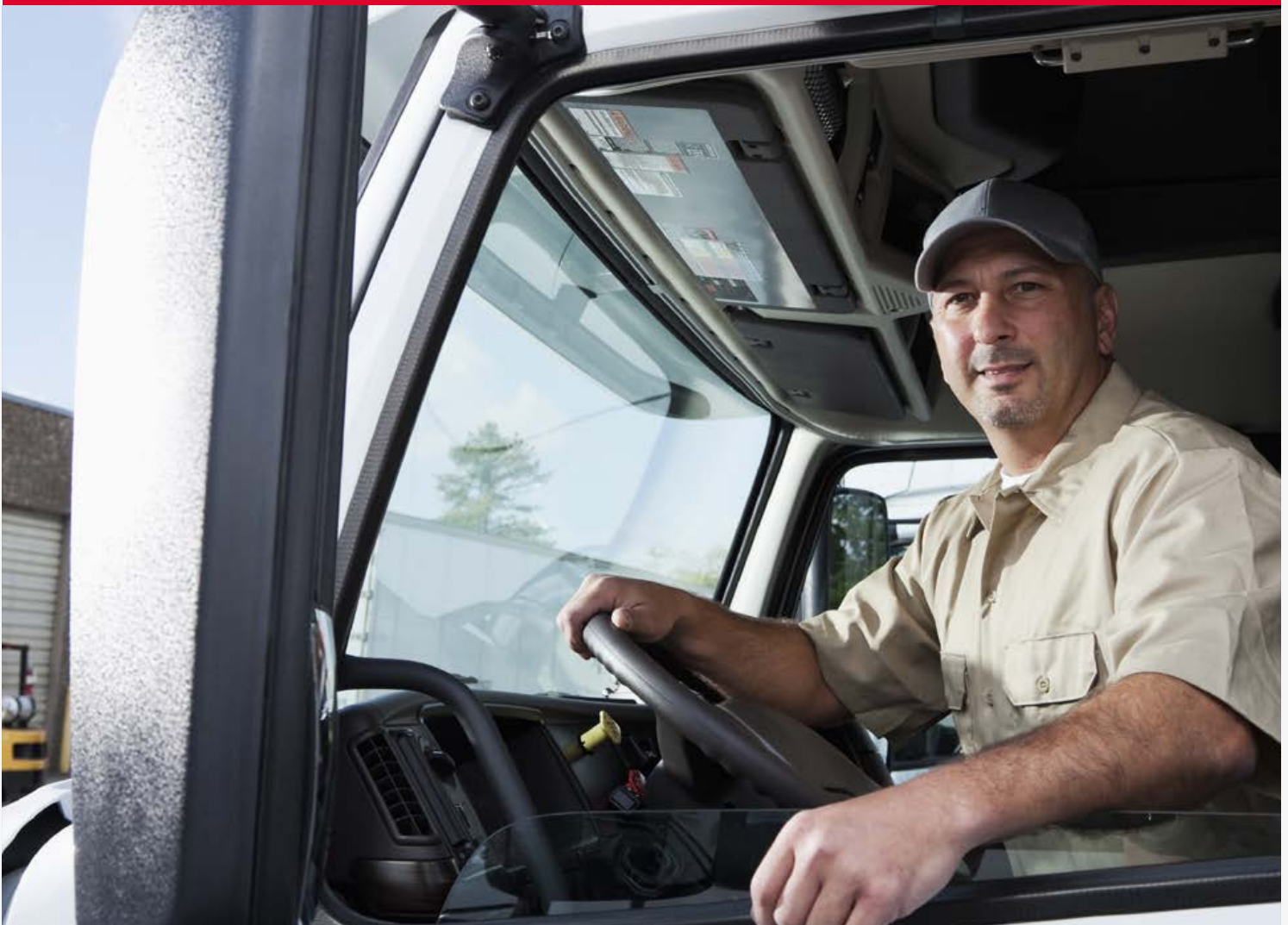
# MEASURE EVERY VEHICLE FROM V-CLASS TO BUS AND HEAVY DUTY VEHICLES

THE MERCEDES-BENZ Wheel Alignment System with all its different adapters and additions is able to measure every possible commercial vehicle on the market, including the V-Class with Sprinter and Vito.

THE UNIVERSAL WHEEL ADAPTER fits all rim sizes from 14" to 26" with extensions. In combination with the compact frame gauges the system is suitable for

measuring everything from light commercial vehicles to the heaviest trucks and buses. As the frame gauges can be altered in width, they can be adapted from narrow to wide bodies.

MEASURING TRAILERS is also easy, as the frame gauges are hung on the chassis using the centerline as reference.











# A SYSTEM IN A CLASS OF ITS OWN

- By putting sensors on the wheels and measuring both forward and backwards, you will be able to measure all possible vehicle combinations that come into the workshop.
- The system is designed to measure and adjust multiple steered vehicles in a simple and accurate way.
- Thanks to its portability the system can be used at every location in the workshop and at the customer's site. This will optimize the flow in your workshop and therefore also your productivity.
- The camera technology enables the system to diagnose frame damages and create report sheets that are accepted by insurance companies.
- A European product developed for European trucks and buses.



## WHEEL ALIGNMENT HAS A LARGE INFLUENCE ON:

- FUEL ECONOMY
- TIRE COST
- DRIVING COMFORT
- SAFETY ON THE ROAD

### CALCULATION EXAMPLE 1

Fuel cost reduction: 3%  
Mileage/year: 200 000 km  
Fuel price: 1.1 EUR/litre  
Fuel consumption: 4 litres/10 km  
Total cost reduction/year:  
 $0.03 \times 200,000 \times 1.1 \times 0.4 = 2,640 \text{ EUR}$

### CALCULATION EXAMPLE 2

Premature tire change, 2 tires/year  
Tire cost: 350 EUR/tire  
Cost reduction/year:  
 $350 \times 2 = 700 \text{ EUR}$



Estimated  
fuel/tire cost  
reduction per year:  
3,340 EUR\*

\* Cost for wheel alignment not included in the calculation

Source, fuel cost reduction:  
Survey performed during 2013 on 500 vehicles from 12 different companies  
by the research institute TNO, Holland





# WHY JOSAM SHOULD BE YOUR BUSINESS PARTNER

- The same camera technology is also used in all Mercedes-Benz truck and axle assembly plants globally.
- For 50 years, Josam has been a global supplier for wheel alignment equipment with its focus on commercial vehicles only.
- Josam was the first wheel alignment equipment to be homologated for Mercedes-Benz trucks and buses in 1985.
- Our wheel alignment competence is spread globally through our training centres.





We know that the product is never better than the support and training provided.

After 50 years in this business we have the absolute best support and training capability in the industry. This will ensure that your investment in our equipment is sustainable.

# YOUR HOMOLOGATED EQUIPMENT COMPRISES

## MERCEDES-BENZ CA MB K/74200



Wheel adapter spider 14"-22.5"



Reflective target  
FL-FR-RL-RR



Wireless server



Cabinet for equipment MB, with PC hardware



Turntable with non-friction plate



Camera sensor



Charging cradle



Extension leg for spider wheel adapter 26"



Wooden plate for height compensation



Compact frame gauge with hangers



Software, tailor-made for Mercedes



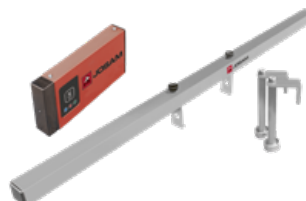
Magnet bracket for frame gauge



Front adapter for Mercedes



Adapter for bumper



Additional kit for inclinometer



Magnet bracket for frame  
LEFT-RIGHT



# ... WHICH WILL GIVE YOU

- Modern, ergonomic and user-friendly measuring technology covering today's vehicles.
- Fast and simple measuring procedures which increases your productivity on wheel alignment compared to a conventional non-digital system.
- Robust industrial design and built-in calibration functions to keep your equipment maintenance at a minimum cost.
- Process controlled and guided software, reducing your operator dependency.
- Opportunities to sell wheel alignment services.

## RECOMMENDED ACCESSORIES



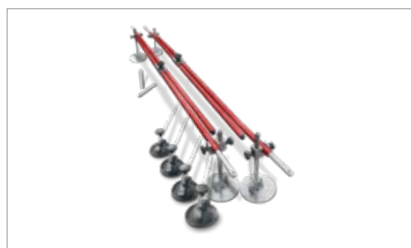
2 × AM268 A/13762



2 × CA1000/72000



4 × CA1006/72006



1 × CA BUS K/72244



6 × CA1034/72034



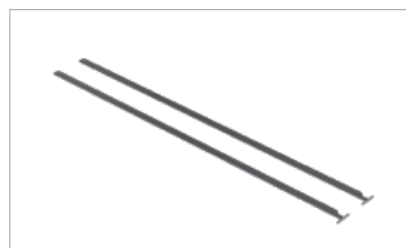
1 × AM48 A/10579



1 × JT167/11928



2 × JT485/12017



2 × JT5-8/12046

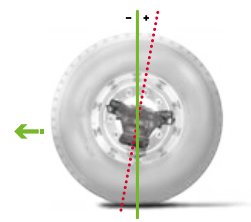
# THE MERCEDES-BENZ WHEEL ALIGNMENT SYSTEM CAN MEASURE THESE WHEEL ANGLES:



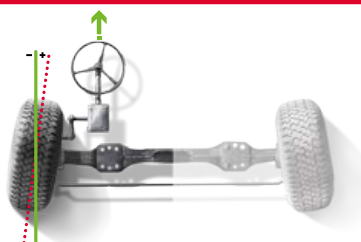
**Toe**



**Camber**



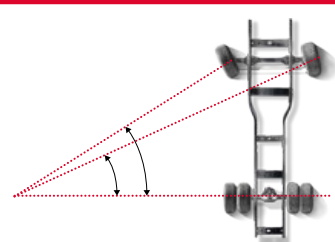
**Caster**



**Steering gear middle position**



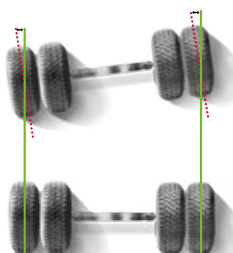
**KPI**



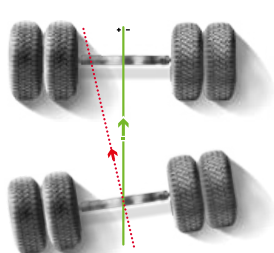
**Toe-out on turn**



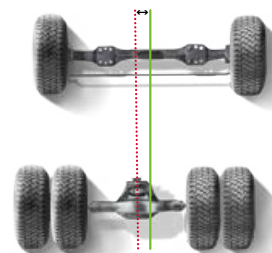
**Maximum turn**



**Parallelism**



**Out of square**



**Offset**

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