

Wheel Equipment



# Alignment

A tradition of performance



**MULLER** BEM® 



# Accurate Measurement Guaranteed.



*New interface specially developed for professionals (Standard and Expert modes, vehicle manufacturer's procedures, express diagnostics...)*



*Graphic animations (8678) optional for 8658 and 8668*



*Report prior to adjustment*



*Steering angle*

All models of MULLER BEM alignment equipment feature state-of-the-art measuring heads.

Each head performs two measurements using a built-in two-way camera (MULLER patent).

The different tools in our range operate with cars and light commercials, with options for trucks and buses.

It can also be used to test seriously damaged vehicles.

## Cost-effective

In addition to providing complete alignment functions, the patented Muller Bem Software for 2-post lifts offers:

- reduced alignment station footprint saving workshop space
- ability to use an existing, non-dedicated station
- full access to all vehicle parts (during the adjustment phase)
- mobile alignment station which can be moved to the vehicle saving you time and allowing better workshop organisation

## Reliable

Eight sensors in four two-way cameras (MULLER BEM patent) ensure improved measurement accuracy. In addition, the 8668 and 8678 radio versions featuring the brand new opto-electric system (MULLER patent) to measure steering divergence at 20° and maximum steering angle without an electronic turntable.

## Fast

The ability to align all 4 wheels simultaneously saves time when measuring wheel run-out.

## Tutorial

A graphical tutorial page enables you to demonstrate any defects detected to your customer. (This is also shown on the printout)

## User-friendly

A new interface which is more user-friendly: animated graphics assist the operator when balancing or adjusting the wheels. Combining an ergonomic and good-looking design, these animations provide step-by-step instructions for the operator.



# State-of-the-art measuring head

**HIGH TECHNOLOGY**

Keypad provides full remote control of all operations

Electronic data display (spirit level, battery charge)



Two-way camera does the job of a full 8-sensor system on the horizontal plane

Re-inforced measuring head

10-hour battery charge (in operation)

**8658**  
Economy comes first

**8668**  
Featuring radio technology



**8678**  
Intensive use includes heavy duty PC





• **8678-20PRPL**

- Heavy duty PC
- User-friendly Windows® based adjustment software
- Measures maximum steering angle (without electronic swivel plates)

• **8678W8S-RPL**

Compatible with the Bilanmatic 10000PL brake test unit

- An optional mobile radio terminal allows you to work interactively from inside the pit



Database



HGV main menu



Adjustment



- Special self-centring attachments for HGV wheel alignment, featuring two clamp types (steel and aluminium rims) plus a safety attachment



Job report



# ACTIA MULLER: AN INNOVATING COMPANY

TWO HIGH TECH MANUFACTURING SITES  
TO SERVE OUR CUSTOMERS



## Circuit Boards

We manufacture our circuit boards at a factory owned by our parent company ACTIA near Toulouse. We also design circuit boards to high industry standards.

Recognized worldwide for the quality and reliability of its products, our parent company has customers in the fields of aeronautic design, transport, medical supplies etc. - areas where a secure manufacturing process is key. In the interests of achieving zero defects, we have standardised our manufacturing and have imposed a high level of conformity and reliability on our products.

## Test lanes & garage equipment

Our factory near Paris is dedicated to product assembly, with an emphasis on ergonomics and design. Our range of products, which is approved by professionals in the motor industry conform to the ISO standard.

We have highly skilled staff and a dynamic research and development department which allows Actia Muller to remain the innovative specialist in garage equipment.

## Components

- 4 radio-controlled measuring heads (8668 - 8678)
- Two-way cameras (equivalent to 8 sensors)
- PC with LCD screen, high capacity hard drive, CD-ROM drive, Windows XP
- Charging dock station for measurement heads (radio version)
- 2 wall charger adapters (8678W8S-RPL)
- 4 self-centring adapters
- 2 mechanical swivel plates
- 1 brake pedal depresser
- 1 steering block
- Console (except 8678W8S-RPL)
- A4 colour printer
- Keyboard and mouse
- Dimensions 1300 x 750 x 1700 mm
- Weight: 90 to 130 kg (depending on model).
- Car database > 10 000 (LV version)
- Truck/Bus database > 5000 (HGV version)

## Options

- Calibration kit
- Dedicated kit for BMW, Porsche & Mercedes,
- Universal kit for PAX Michelin wheels, special rims, etc.)
- Radar alignment kit
- Second display (radio) for HGV use
- Expert 8668 (graphic animation, maximum steering wheel)



# Features and software

	8658	8668	8678	8678-20PRPL	8678W8S-RPL
<b>FULL VEHICLE GEOMETRY</b>					
Overall or wheel-by-wheel parallelism	■	■	■	■	■
Camber, castor, kingpin offset, included angle	■	■	■	■	■
Steering divergence, max steering angle		○	■	■	■
Axle offset, toe-in, toe-out, axle alignment, thrust angle				■	■
Offset, setback	■	■	■	■	■
Parallelism drift	■	■	■		
<b>ELECTRONIC WHEEL RUN-OUT MEASUREMENT</b>					
3-point	■	■	■	■	■
Simultaneous	■	■	■		*
<b>SPECIAL PROGRAMS</b>					
On traditional lifts	■	■	■		
On 2-post or scissor lifts (hanging wheels)	■	■	■		
Ride height for Mercedes vehicles with special tool	■	■	■		
<b>HELP</b>					
On-line user help	■	■	■		
Adjustment (animated graphics)	○	○	■		
<b>SPECIAL FEATURES</b>					
Measurement self-checking	■	■	■	■	■
5 workstation configuration capability	■	■	■		
Operation sequencing (full geometry, fast diagnostics...)	■	■	■	■	■
Stores geometry defects on workstation (for automatic correction of camber, caster, etc.)	■	■	■	■	■
Customer data archiving	■	■	■	■	■
Job archiving	■	■	■	■	■
Automotive manufacturer databank	■	■	■	■	■
Personal databank	■	■	■	■	■
Standard PC	■	■			
Industrial PC			■	■	■

■ Standard ○ Optional \* Development in progress



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