

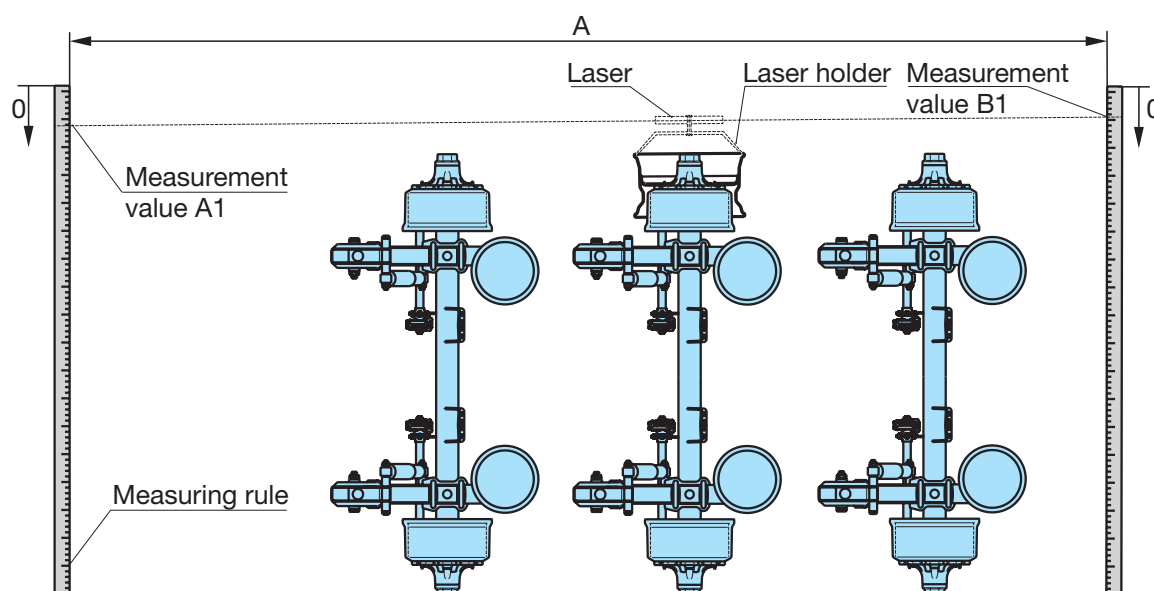
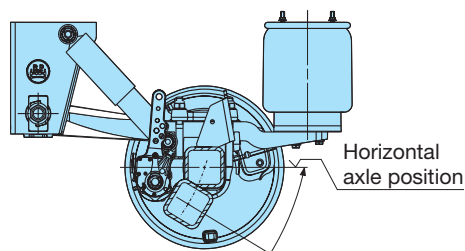
## Axle alignment with laser measuring systems.

The toe tolerances defined by BPW must be observed when aligning axles using laser measuring systems. Optimum tyre life can only be guaranteed providing the tolerances are observed. The laser machine must be set up in accordance with the manufacturer's specifications. The axle position must be horizontal. Deviations from the horizontal axle position will falsify the measuring results.

$$\text{Calculating the toe values} = \frac{A1 - B1 \text{ (mm)}}{A \text{ (m)}}$$

Positive value = Toe-in

Negative value = Toe-out



The measurement must be performed on both sides of the axle. The measurement values are then added together. The total of the values is the toe-in/toe-out value of the axle and must be within the permitted tolerance range.

Up to production date 2004 per axle: **0 to 6 mm/m**

After production date 2005 per axle: **-1 to 5 mm/m**

The values apply to each of the axles **installed** in the vehicle. Please contact your vehicle manufacturer if the axles are misaligned and the toe tolerances are exceeded.