

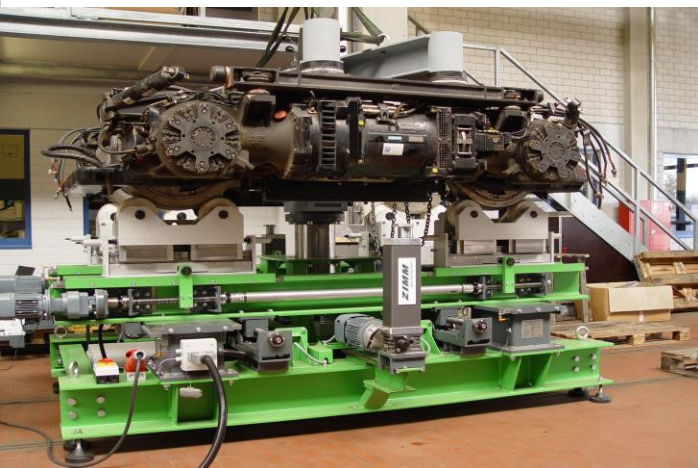


BMS Bogie Maintenance System

From a simple assembly stand to a high-performance measuring machine

Special feature: it is from the mobile bogie test stand family, which reverses the principle of stationary test benches as the pressure load takes place from the bottom allowing a very compact design. The method simulates operating loads on the bogie, which act when installed on the frame and simultaneously measures wheel vertical or axis parallelism among other things. This allows the test stand to be very cost effective. This system is flexible and makes examining bogies for various types of railway vehicles easy.

Our measurement systems are developed in accordance with DIN 27201-9 (measuring) in conjunction with DIN EN ISO 10012 and can therefore be used for the measurement tasks of DIN 27043-7 (measuring methods on complete bogies under compression). The plants are checked by a DAkkS - an accredited inspection body according to DIN 7500-1 and DIN VENV 13005 before being delivered. The TÜV Süd demonstrated the process capability in accordance with DIN 25043-7 for type BMS.



Summary

- Modular test stand system for light and heavy bogies, adaption if necessary
- System communication via fail-safe data bus
- Electromechanical loading means
- Force transmission by connecting rod(s)
- Compact design with no rotating portal and pit
- Transportable by forklift / crane and truck
- Calibration by accredited body
- Inspection as measuring equipment in accordance with DIN EN ISO 7500-1
- Fully automatic measurement
- Track width adjustment
- Axis parallelism, wheel disc parallelism, wheel diameter
- Measuring means for detecting X, Y and Z measuring points

Variants:

We manufacture mobile bogie load measuring stands type BMS 09 for light bogies (trams, commuter trains and subways) and type BMS 1.4 for heavy types of bogies (coaches, locomotives, etc.).

BMS 0.9

For light bogies (trams, commuter trains, subways)

BMS 1.4

For heavy bogies (coaches, locomotives, etc.). Process capability demonstrated in accordance with DIN 25043-7

Technical data

	BMS 0.9	BMS 1.4
Length:	3,00m	4,35m
Width:	1,90m	4,25m
Height:	1,20m	1,25m
Weight:	3,90t	4,80t
Force introduction point:	1x 250kN (centrally)	2x 250kN (laterally)
Track width adjustment	yes	yes
Data transmission	Digital data bus / Industrial data radio	
Computer connection	Bluetooth, USB	
Supply Voltage	400V / 16 A	
Storage battery	12V	
Number of wheels	4	4-6

Technical data measurement systems

Measuring force (wheel load)	80kN	125kN
Supply voltage	12V	
Storage battery	12V	
Active measuring track	400 - 1000mm	400 – 1200mm
Resolution	0,01kN / 1kg	
Meters class	(0,3 / 0,5)	(0,3 / 0,5)
Nominal temperature range	-10°C to 65°C	
Storage temperature range	-40°C to 85°	

Optional equipment

3D index arm
Digital slide gauge