

Tire Bead Compression Machine Type WKM-B4

The expansion force of the tire bead as a function of its diameter is of great importance for the mounting process and the safety during driving.

The new generation of bead compression machine WKM-B4 allows easy and rapid verification whether the bead parameters are within the acceptable limits.



WKM-B4 A+C Combi 12“-30“

Measuring Station

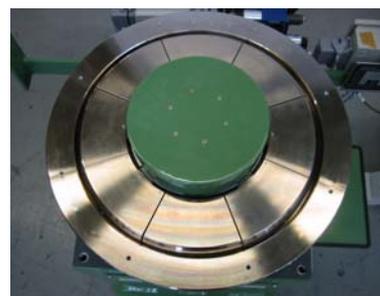
The adapter of the bead compression machine simulates a rim half of eight radially movable segments which are synchronously forced outward by means of a hydraulically controlled draw cone until the predetermined limit is reached. The bead seat contact pressure that develops is measured by four force transducers fitted 90 degrees apart. On the touch panel graphic display the variation of the seat contact pressure is shown in dependence on the diameter. An alternative version with eight force transducers is available upon request. The arrangement of the test rim segments is such that the tire can easily be mounted and dismantled.

Measuring Electronics

PC measurement and evaluation electronics under WINDOWS operating system with multitasking real time measuring system with touch screen panel and keyboard is integrated into the measuring station. The bead seat contact pressure is displayed separately on the screen for each of the four force transducers. Additionally, the arithmetic mean is displayed. The machine features an electronic memory for the bead seat contact pressure at the min. and max. rim shoulder diameters. The measured values remain displayed until the next tire is measured. Transmission of measured data is permitted by a serial interface.

Measuring Jaw Set

A different set of rim segments must be used for every nominal bead diameter. Each set contains 8 rim segments. For the adjustment of the segments to the nominal diameter a zero check ring for each diameter is delivered. The segments will be adjusted with the gauge ring to the nominal diameter. The rim segments are designed according to WDK-116.



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Calibrating device

This calibration device enables the calibration of the force indication on the panel. It consists of a calibration ring with a force transducer and a measuring device with digital display. Calibration device with DKD-certification.

Eight Force Transducers

All measuring jaws (eight) of the machine can alternatively be supplied with force transducers so that more information of the tire can be available and checked.

Statistics

Statistics regarding the test plan with statistical evaluation and printing of the measuring data. Storage of the data in files, USB or transfer of the data in a superordinate computer.

Printer

A printer can be connected in order to print out the measuring protocols or the measuring diagrams.

Technical Data

Bead diameter:	[Inch]	Machine type A:	12" - 19"
Test range:	[Inch]	Machine type B:	14" - 21"
	[Inch]	Machine type C:	19" - 30"
Test speed:	[mm/min]	2-45 adjustable)	
Bead seat contact force	[N]	15000	
Rated force:			
Power supply:	[V/Hz]	230(400)/50(60)	

Hofmann Product Line for Production, Quality Control, Research and Development

Please contact us for further information.

HOFMANN 
Hofmann Maschinen- und Anlagenbau GmbH

Altrheinstraße 11

67550 Worms

Germany

Tel.: +49 6242 904-0

Fax: +49 6242 904-286

E-Mail: tiretesting@hofmannmaschinen.com

www.hofmannmaschinen.com