



# TIRE BEAD COMPRESSION MACHINE TYPE WKM-EVO

## PURPOSE AND APPLICATION

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



WKM-Evo 12" - 30"

## MEASURING MODE

The adapter of the tire bead compression machine simulates a rim half of eight radially movable segments which are synchronously forced outward by means of an electrical controlled draw cone until the predetermined limit is reached. The bead seat contact pressure that develops, is measured by eight force transducers fitted 45 degrees apart. On the 22" multitouch panel the variation of the seat contact pressure is shown in dependence on the diameter. The arrangement of the test rim segments guarantees that the tire can easily be mounted and dismantled. A LED light indicates the operating status of the machine in different colors.

## MEASURING ELECTRONICS

The evaluation electronics is located on a PC Windows operating system and a Microsoft SQL Express database. This software processes, stores and visualizes the measurement signals recorded by the PLC.

The bead seat contact pressure is displayed separately on the screen for each of the eight force transducers and can be displayed as a graph. In addition, the arithmetic mean value is displayed.

The machine features an electronic memory for the bead seat contact pressure at minimum and maximum WDK-parameters. Up to 10 limit values and 8 expansions can be preset.

Transmission of measured data is permitted via an XML 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 rim segments are designed for WDK-116, or upon to customer request.



### STATISTICS

All measurement results of the test maps can be graphically displayed and individually evaluated retrospectively for up to 30 days in a database. Individual data sets of the measurement results can be printed out as a PDF file.

### MACHINE DATA

- Bead diameter (inch) 12 – 30
- Test speed (mm/min) 5 – 60
- Bead seat contact force (N) 15 000
- Standard force transducers 8
- Power supply (V/HZ) 230 (400)/50(60)
  
- Movable machine with CEE plug and play solution
- SQL Database
- According to CE regulations
- Certified calibration device

### OPTIONS

- Professional mobile tool storage system for rims, zero-ring and calibration device
- Machine cover hood
- Remote maintenance system
- Software maintenance contract
- Printer



### CONTACT US FOR FURTHER INFORMATION

E-Mail: [michael.hierse@hofmannmaschinen.com](mailto:michael.hierse@hofmannmaschinen.com)  
Hofmann Maschinen- und Anlagenbau GmbH  
Altrheinstraße 11 Tel.: +49 6242 904-160  
67550 Worms Fax: +49 6242 904-286  
Germany

[www.hofmannmaschinen.com](http://www.hofmannmaschinen.com)

Copyright®

