

# *gomek oy*

## Wheel Diameter Measuring Devices 1M-350 and 1M-315

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Wheel diameter or diameter differences of a wheelset can be measured quickly and accurately with the diameter measuring devices 1M-350 and 1M-315. Diameters can also be easily measured under the locomotive or the car in field conditions.



Measuring is very simple. After a brief practice period, reliable results can be obtained. The operating principle of the measuring devices 1M-350 and 1M-315 is simple making the device easy to use.

The distance of the travel circle from the side of the flange's side, also called the reference face or plane, is quite commonly 70 mm. However, it may deviate from this. If so, please let us know this distance, so we can produce corresponding holders for it, optional.

### **The total measuring range of the measuring devices:**

**1M-315** is as smallest from  $\varnothing 580$  mm to  $\varnothing 1000$  mm or e.g. from  $\varnothing 607$  mm to  $\varnothing 1090$  mm.

**1M-350** is as smallest from  $\varnothing 660$  mm to  $\varnothing 1072$  mm or e.g. from  $\varnothing 713$ mm to  $\varnothing 1239$  mm.

Above divided into four sub-ranges, without gaps. There is no upper limit for the diameters and the smallest can be any diameter greater than  $\varnothing 580$  mm or respectively  $\varnothing 660$  mm. Gaps can also be left between sub-ranges. The sensor has a different position for each sub-range and this position is adjusted in the calibration rack using appropriate gage blocks. Each unit's individual calibration values are recorded on the device behind the cover plate.

Please note, before we can deliver the devices, we need to know the max and min diameters of the wheels that will be measured. In this way, we can ensure that the device will fit in the best way to measure those wheels.

### **Accuracy**

The diameters are indicated on the display with a resolution of 0.1 mm which is the reading accuracy.

True measuring accuracy is in the range of 0.2 mm when the wheel to be measured is round, has a good surface and the reference face is proper. For example in repair turning, with a feed of 1.5...2 mm/turn the above measurement accuracy can be easily achieved.

