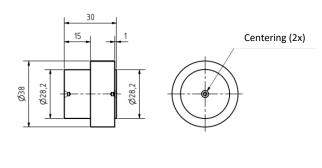


Lead Standard specimen N4

The proper functioning of a lead measurement tool can be checked using suitable standard pieces. In order to avoid aliasing effects one employs usually two lead standard pieces having turns of 10 and 30. It is important that the lead structure has a smaller order of magnitude than the statistical roughness in order to avoid that the surface roughness is determined by the lead structure.

The standard pieces can both be clamped between centers and in a jaw chuck. The standard pieces are made from stainless steel and are supplied in a wooden box accompanied by a calibration certificate. They serve to check the calibration status of a lead measurement tool according to MBN 31007-7.







 1.00
 mm

 0.20
 mm

 31
 right

 1.28
 μm

 0.07
 mm

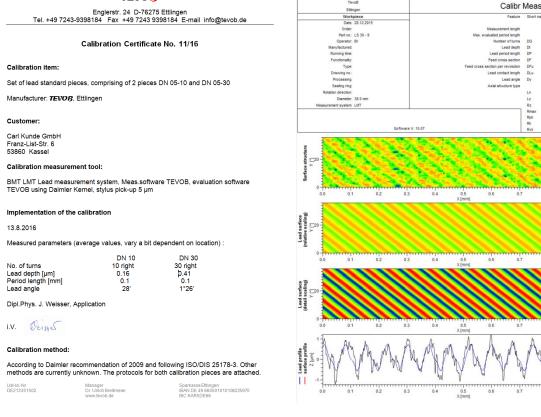
 47.3
 μm²

 1465.9
 μm² / R

 24.4
 %

 1* 06'

2.00 mm 0.00 mm 2.54 µm 2.73 µm 0.37 µm 1.43 µm



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TEVOB Englerstr. 24, D-76275 Ettlingen

www.tevob.com

sales@tevob.com

0.8

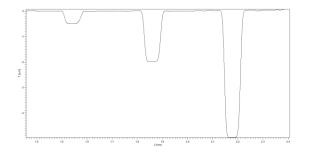
0.9

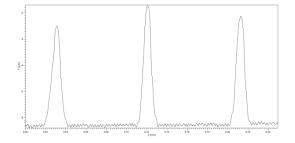
It is helpful to be able to check the pick-up calibration before the lead calibration check is done. Also the check of the stylus integrity is useful.

To this end we offer optionally a metal ring which can be slided onto the lead standard.



3 calibration grooves are put onto the outer circumference of the metal ring having target depths of 0.5; 1; 2 μ m. Moreover there are 3 sharp profile edges which serve to check the stylus tip radius.





Calibration grooves

sharp profile edges