

PT 106

Dimensional metrology I: training kit 6



Learning objectives/experiments

- familiarisation with the various measuring and testing devices
- measurement of pre-determined dimensions
- keeping a measurement log
- estimating measurement variations
- identifying typical errors

Specification

- [1] practice kit for dimensional metrology in the metalworking trades
- [2] measurement exercises on a stainless steel shaft
- [3] instructional kit complete with test pieces and measuring aids
- [4] 10 test pieces, each of different dimensions
- [5] plastic storage system to house all parts
- [6] detailed instructional material

Technical data

Test pieces: 9 lengths and angles, 7 diameters and radii measurable
 Vernier caliper gauge: 0...200mm
 Depth caliper gauge: 0...150mm
 Radius gauges: 1...7mm concave and convex
 Universal goniometer

- track length: 150mm
- adjustable to any angle

LxWxH: 500x350x110mm (storage system)

Weight: approx. 6kg

Description

- **tried and tested dimensional metrology exercises**
- **several test aids and 10 test pieces**
- **comprehensive and well-structured instructional material**

This dimensional metrology practice kit is designed for practical training in the metalworking trades.

The kit offers the advantage of being ready for use immediately; it contains everything required for the exercises. The test pieces used are stainless steel shafts with various protrusions including one square section. They were manufactured with the accuracy of CNC parts. The kit includes ten shafts, all of which differ to a minor degree in dimensions and each of which is individually marked.

All parts are clearly laid out and well protected on a plastic storage system. The storage systems are stackable, providing for space-saving storage.

Scope of delivery

- 1 storage system with foam inlay
- 2 caliper gauges
- 1 set of radius gauges
- 1 universal goniometer
- 10 test pieces (shafts)
- 1 set of instructional material