

PT 201

Dimensional metrology II: training kit 1



Learning objectives/experiments

- checking shaft slots
 - ▶ width and depth
 - ▶ parallelism
- keeping a measurement log
- estimating measurement variations

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] 6 test pieces, each of different dimensions
- [5] box of 32 block gauges, DIN EN ISO 3650
- [6] plastic storage system to house all parts
- [7] detailed instructional material

Technical data

Test pieces: 4 dimensions measurable
 Pocket caliper gauge: 0...150mm
 Depth micrometer: 0...75mm
 Dial gauge
 ■ 0...1mm, graduations: 0,001mm
 Key-way vernier caliper: D=5...80mm
 V-Block: indent 90°

LxWxH: 500x350x110mm (storage system)
 Weight: approx. 12kg

Description

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

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

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 slotted shafts. They were manufactured with the accuracy of CNC parts. The kit includes six shafts, all of which differ to a minor degree in dimensions and each of which is individually marked.

Scope of delivery

- 1 storage system with foam inlay
- 2 caliper gauges
- 1 micrometer
- 1 dial gauge
- 1 V-block with fixture
- 1 block gauge box
- 1 magnetic stand
- 6 test pieces (shafts)
- 1 set of instructional material