

PT 202

Dimensional metrology II: training kit 2



Learning objectives/experiments

- checking tapers:
 - ▶ checking an external taper with the taper ring gauge
 - ▶ checking an internal taper with the taper plug gauge
- keeping a measurement log
- estimating measurement variations

Specification

- [1] practice kit for dimensional metrology in the metalworking trades
- [2] measurement exercises on an external and internal taper
- [3] instructional kit complete with test pieces and measuring aids
- [4] 8 stainless steel test pieces, each of different dimensions
- [5] plastic storage system to house all parts
- [6] detailed instructional material

Technical data

Test pieces: 3 dimensions measurable
 Taper ring gauge MK 3
 Taper plug gauge MK 3
 Depth caliper gauge: 0...150mm

LxWxH: 500x350x110mm (storage system)
 Weight: approx. 4kg

Scope of delivery

- 1 storage system with foam inlay
- 1 depth caliper gauge
- 1 taper ring gauge
- 1 taper plug gauge
- 8 test pieces (4 internal tapers, 4 external tapers)
- 1 set of instructional material

Description

- **tried and tested dimensional metrology exercises**
- **several test aids and eight test pieces**

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