

PT 104

Dimensional metrology I: training kit 4



Learning objectives/experiments

- familiarisation with a universal goniometer and its function
- measurement of pre-determined angles
- calculation of angles
- 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 angle piece
- [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: 6 angles measurable
 Universal goniometer

- track length: 150mm
- adjustable to any angle

LxWxH: 500x350x110mm (storage system)

Weight: approx. 5kg

Scope of delivery

- 1 storage system with foam inlay
- 1 universal goniometer
- 10 test pieces (angle pieces)
- 1 set of instructional material

Description

- **tried and tested dimensional metrology exercises**
- **several test aids and 10 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 angle plates that have been manufactured with the accuracy of CNC parts. The kit includes ten angle pieces, all of which differ to a minor degree in dimensions and each of which is individually marked.