MG 120

Instructional kit: assembly with taper keys

Description

- **practical workshop exercise relating to taper key joints**
- **familiarisation with various taper keys, their production, special features and areas of application**

This instructional kit provides the necessary material for students to learn systematically how a shaft is joined to a hub or a coupler in a professional way using taper keys. We recommend that the exercises are carried out in a workshop, as all preparations such as filing, drilling, countersinking and tapping must be carried out in a correct and proper manner by the student.

The material is clearly laid out on a plastic tray.

Learning objectives/experiments

- production of different taper keys: round ended, straight ended, nose key, tangential key pair, cotter
- assembling taper key joints:
- familiarisation with the relevant standard designations and terms, including graphical representation
- planning and execution of all steps in the workshop environment
- familiarisation with types of taper-keyed joint
- working with fits and tolerances

Specification

[1] set of material for workshop exercises in taper key joints
[2] shaft with slots
[3] 2 hubs with slots
[4] coupler
[5] key driver, key extractor, driver sleeve
[6] 1 set of semi-finished items for the production of taper keys to DIN 6886 and DIN 6887
[7] all parts clearly laid out on a tray
[8] multiple trays stackable

Technical data

Semi-finished items
- taper key shape A (round ended): 14x9x75mm
- taper key shape B (straight ended): 14x9x82mm
- nose key: 14x9x90mm
- tangential key: 10x6x165mm
- cotter key: 25x6x62mm

All parts made from steel, some with gunmetal finish

LxWxH: 500x350x110mm (tray)
Weight: approx. 18kg

Scope of delivery

1 complete set of material, laid out on a tray
1 set of instructional material