

# MG 911

## Roller bearings kit



### Learning objectives/experiments

- familiarisation with the most important roller bearing types used in mechanical engineering and their specific applications
- familiarisation with relevant standardised designations and terms
- discussion of applications

### Specification

- [1] roller bearings kit
- [2] 13 roller bearings, arranged clearly: 5 roller bearings and 8 ball bearings
- [3] 2 axial bearings / 11 radial bearings
- [4] all parts arranged clearly in the storage system
- [5] multiple storage systems can be stacked on top of each other

### Technical data

#### Bearing dimensions

- inner diameter:  $\varnothing$  20mm
- outer diameter:  $\varnothing$  35, 40, 42, 47, 52mm
- bearing width: H=8, 10, 12, 14, 15, 18, 47mm

LxWxH: 500x350x110mm (storage system)

Weight: approx. 2kg

### Scope of delivery

- 1 complete kit, arranged in storage system
- 1 set of instructional material

### Description

- **extensive teaching kit of the most important roller bearings used in mechanical engineering**
- **standardised designations, terms and applications**

Roller bearings are standardised machine elements that are classified as guide and bearing elements. They are responsible for guiding rotating shafts or axles in stationary components and transferring radial and axial forces but not torque. Rolling elements (balls or rollers) are located between mutually movable parts. Roller bearings are classified in different standard series depending on the application.

This kit is used for demonstration and information. It is not designed for performing exercises or experiments. Different roller bearings are shown. The bearings are selected for a shaft size.

The kit is arranged clearly in a storage system.