

Displacement measuring device



- Complete measuring system as kit or as individual components
- Flexible, spring-loaded holding device for encoder, ensures optimal pressure and protects encoder shaft
- With rack and pinion
- Perfectly calibrated components:
1 revolution of the pinion corresponds to a displacement of 50 mm

Description and application:

The holding device for the encoder (8.0010.7000.0004) is a movable support for encoders, to the shaft of which, for instance, a measuring wheel or pinion can be attached. Due to the fact that it is movable, optimum contact pressure is ensured and overload on the bearings of the encoder prevented.

When used in conjunction with a pulse generating unit, the rack and pinion combination (8.0010.7000.0001 and ...0002)

serves as a simple length and displacement measuring system. One rotation of the pinion on the rack corresponds to a displacement of 50 mm. Moreover the racks are designed in such a way that they can be butt-mounted without pitch error.

The absolute accuracy is 0.5 mm per meter. The resolution / repetition accuracy is 0.1 mm. Holding device, rack and pinion are available as a set for the purpose of displacement measurement (8.0010.7000.0005).

The installation aid (8.0010.7000.0003) is required to maintain exact pitch when butt-mounting racks.

Typical areas of application are:

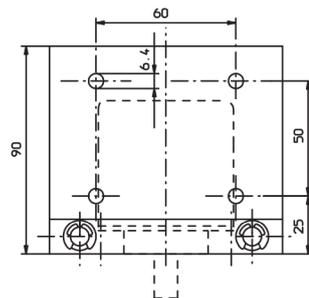
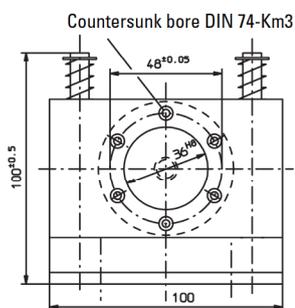
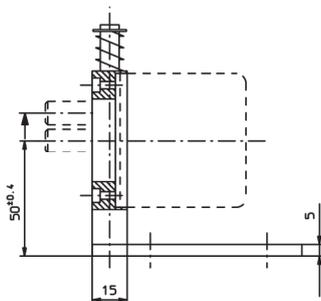
- Wood working industry
- Textile industry
- Handling and automation technology
- Mechanical engineering / Special machines

Holding device for encoders:

Material:

Guide rods: stainless steel

Flange: Al



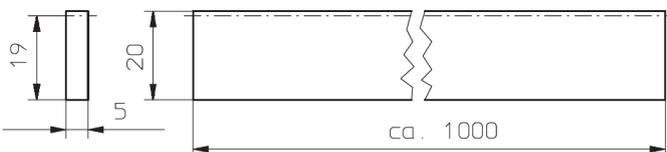
Ord.-No.
8.0010.7000.0004

Rack

Material: St 37

Surface: uncoated

Module pitch: approx. 1



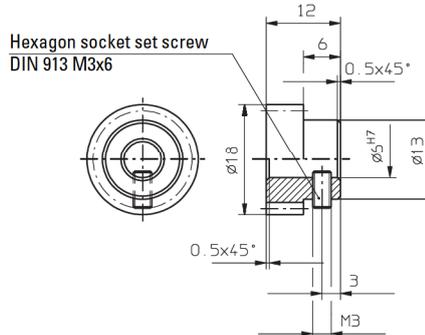
Ord.-No. 8.0010.7000.0001

Pinion

Material: free-cutting steel

Surface: burnished

Module pitch: approx. 1, No of teeth: 16



Ord.-No. With bore diameter \varnothing 6 mm
8.0010.7000.0002

With bore diameter \varnothing 10 mm
8.0010.7000.0006

Installation aid

Material: St 37

Surface: uncoated, Module pitch: approx. 1



Ord.-No. 8.0010.7000.0003

8.5810.1235.0500

5810 encoder for rack and pinion, 0.1 mm res

6.716.010.000

716 LED preset counter 90-260VAC, 1 preset