

Displacement measuring device



- Complete measuring system as kit or as single parts
- Holding device for encoder for perfect pressure
- With rack and pinion
- 1 turn around of the pinion is exact 50 mm easy to use

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).

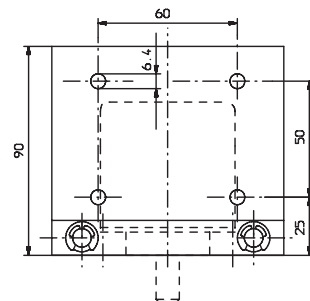
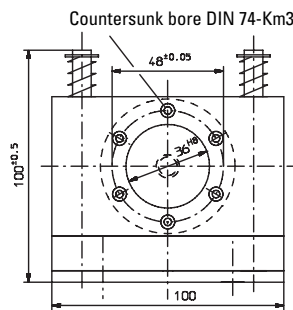
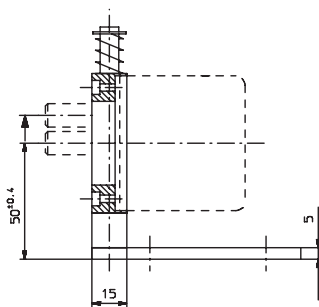
The installation aid (8.0010.7000.0003) is required to maintain exact pitch when buttmounting racks.

Typical areas of application are:

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

Holding device for encoders:

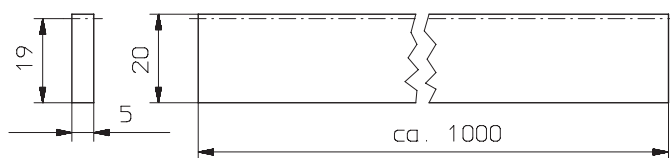
Material:
Guide rods: stainless steel
Bracket: Al



Ord.-No.
8.0010.7000.0004

Rack

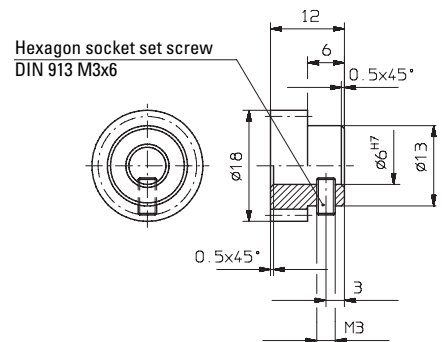
Material: St 37
Surface: uncoated
Module pitch: approx. 1



Ord.-No.
8.0010.7000.0001

Pinion

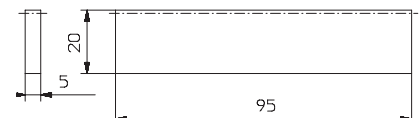
Material: free-cutting steel
Surface: burnished
Module pitch: approx. 1
No of teeth: 16



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