ROEMHELD

Swivel Element for Assembly Operations
Single lever operation – Indexing 90° *

Swivel element   **Part-no. 6505-101**

Mounting for fixture M 10x15 deep

Swivel lever

Swivel element with hydraulic rotary coupling   **Part-no. 6505-111**
Swivel element with pneumatic rotary coupling   **Part-no. 6505-121**

Mounting for fixture M 10x15 deep (+22 mm)
Rotary coupling
2 ports G 1/4
Option: manifold-mounted port

Swivel element with brake   **Part-no. 6505-201**
max. braking torque 100 Nm radially
Option: **with rotary coupling** as above   **Part-no. 6505-211 or 221**

Brake lever
Swivel lever
Mounting for fixture M 10x15 deep

Application
This swivel element was developped for assembly of devices, where assembly processes must be effected from different sides. It is required that the device to be mounted is placed in the most favourable position.

Description
Fixtures with one or two swivel axises can be made with this swivel element.
The installation position can be horizontally or vertically.
Swivelling and indexing is effected by means of a lever always to the same direction. When starting the swivel process the indexing bolt is automatically pulled out of the lock-in position, at the end of the swivel process it automatically snaps in again.
The swivel element can additionally be provided with a brake, which allows a locking of the fixture in each position.

4 fixing possibilities:
– vertical swivel axis   figure ①
– horizontal swivel axis
   to be turned by 90° each,
   according to the desired position
   of the swivel lever   figure ②, ③, ④

Technical data
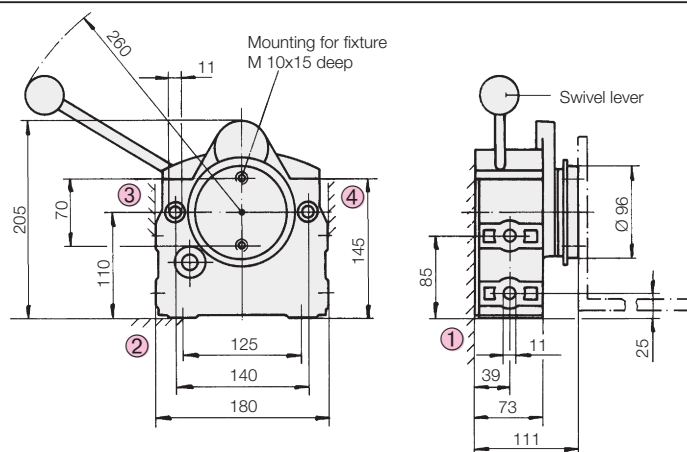Weight of device at 200 mm
distance of centre of gravity   max. 50 kg
Max. dimension of device   300x300x300 mm
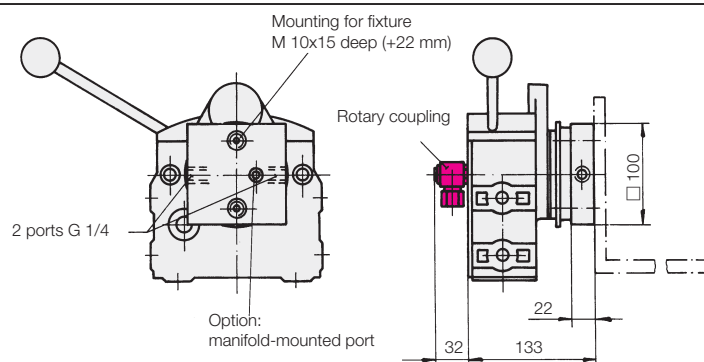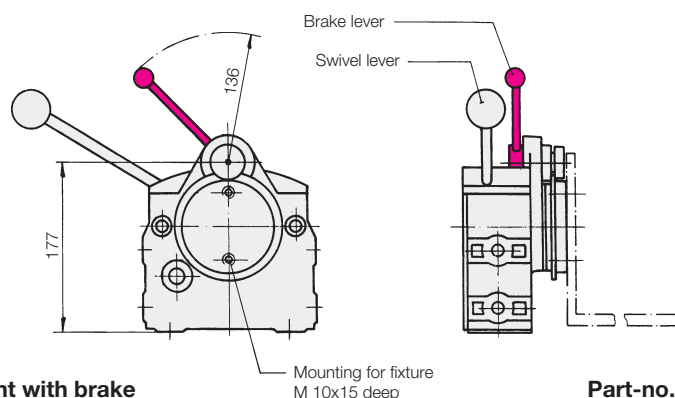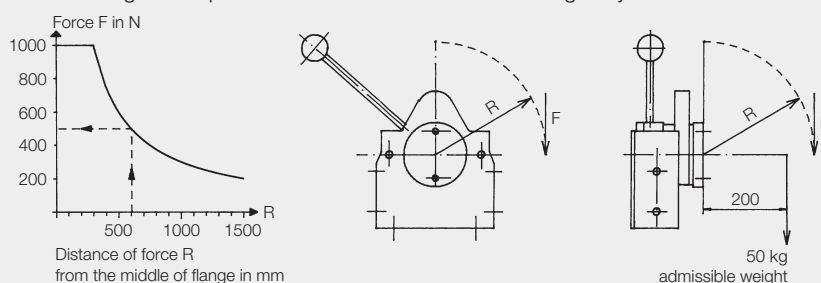***Other indexes**   **60°, 45° and 30°**
Discs can be exchanged
Indexing precision ±3'
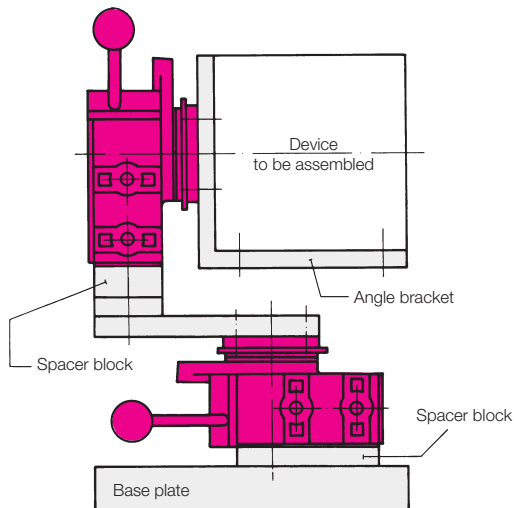
Admissible force F in dependance with lever R in indexed mode and admissible weight in dependance with distance of centre of gravity

Force F in N

Distance of force R from the middle of flange in mm

50 kg admissible weight

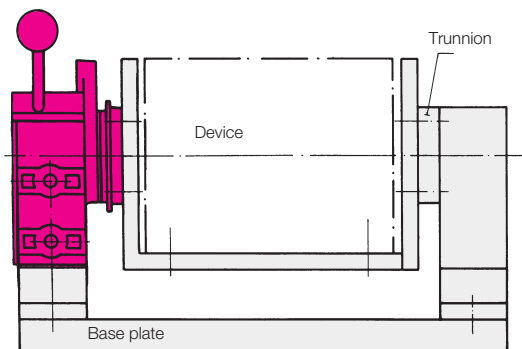Example: Force F of 500 N is admissible in the area of radius R (lever) of 600 mm.
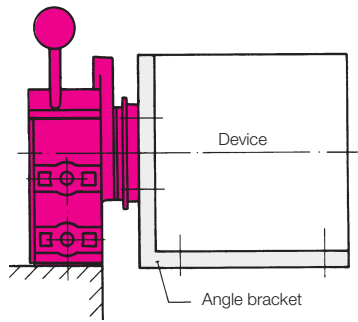
Swivel element with angle bracket

Swivel element with horizontal and vertical swivel axis (available on request)

Swivel element with support (available on request)

The above fixture consists of swivel element, spacer block, angle bracket and base plate.

Swivel element for assembly operations with hydraulic lifting units as per data sheet M 6.910 for assembly in optimum working position

Swivelling, rotating, lifting, lowering

Swivel swivel element and extend lifting unit by foot operation

Assembly in optimum height and position