

- Metric**
- 3 Type**
- A** With arrow
 - B** Neutral, without arrow or scale
 - S** With standard scale 0...9, 100 graduations
 - KS** With customized scale

Metric table

Dimensions in: millimeters - inches

1 d_1	2 d_2 H7 Bore with keyway	d_3	$d_4 - 0.2$	d_5	l_1	l_2	l_3
66 2.60	K 12 K 14	52 2.05	55 2.17	5.5 0.22	44 1.73	9 0.35	40 1.57

Specification

- Locating ring and bushing
Steel, blackened finish
- Blocking mechanism
Steel, hardened and ground
- Scale ring and rotating knob
Aluminum, black anodized finish
- Arrow (type A) and scale (type S / KS)
 - Engraved with laser precision
 - Centered between two mounting holes
- ISO Fundamental Tolerances → page 2129
- RoHS compliant

On request

- Special graduations, see
"How to Order Graduations" → page 328

Information

With these GN 700 indexing knobs a shaft can be infinitely adjusted in both directions. The anti-backlash mechanism ensures the firm locking of the shaft in any position.

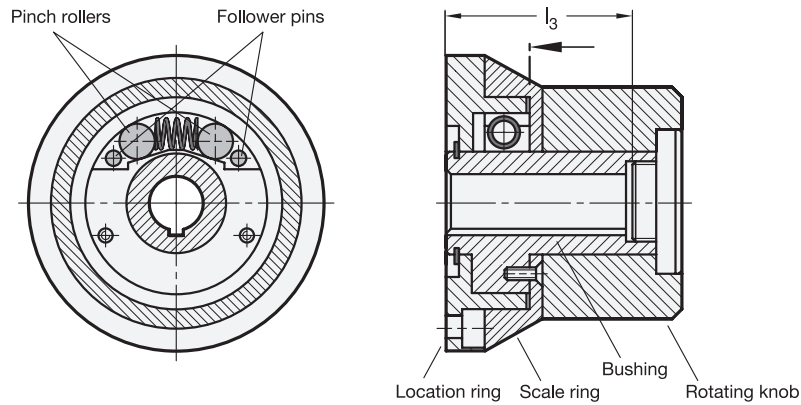
This mechanism prevents any uncontrolled movement of the shaft. The locking action is a safety feature to prevent unwanted re-adjustments caused by backlash and vibration.

Example of an application; the locking of adjustable shafts (ball / roller bearing shafts).

see also...

- Indexing Mechanisms GN 200 → page 336
- Indexing Levers GN 215 → page 342

How to order GN 700-66-K14-S	1	Outside diameter d_1
	2	Bore with keyway d_2
	3	Type



Description

The anti-backlash mechanism which operates on the principle of a bidirectional freewheeling and anti-reversing basis allows the transfer of movement in both directions without backlash. The adjustable knob is not suitable for applications on machines or equipments which are exposed to vibrations.

The **bushing** is connected by the parallel key / keyway to the revolving shaft.

The **location ring** remains static and centrally positioned by the bushing and the two pinch rollers, fixed to the machine frame or housing by three screws.

The **rotating knob** with the knurled barrel is carried by the bushing.

The **scale ring** is firmly anchored to the bushing and the driven shaft by two countersunk screws.

If the knob is repositioned, one of the follower pins – depending on the direction of rotation – pushes the pinch roller against the spring into an idling position which releases the bushing and shaft to rotate freely.

The second follower pin on the opposite side reduces the movement of its pinch roller and ensures at the same time a firm grip and forward movement of the bushing while the first pinch roller remains in an idling position.

When releasing the knob, the spring will push the pinch roller back into the grip position, thus linking the bushing again with the static section.

The scale ring is connected firmly with the bushing and any readjustment of the shaft can be accurately controlled.

This infinitely adjustable knob cannot, however, be used in such cases where the shaft to be adjusted runs ahead of the adjustment. The anti-backlash mechanism in this knob cannot be used as a bearing for the driven shaft.

Hints for installation

A perfect functioning can only be guaranteed if the shaft of the machine is positioned at a perfect right angle to the contact surface of the static part.