

- 3 Type**
- A** Without scale
 - AS** With scale 0...50, 60 graduations

1 d_1	2 d_2 H7 Bore with keyway			d_3	d_5	d_6 P.C.D. Ø for fixing screws Page XYZ	l_1	l_2	l_3 Bore length Page XYZ	w Stroke
44	K 10	K 12	-	33	23	33	37	6	31	4
52	K 12	K 14	K 16	42	31,5	41,8	37,5	6	31,5	4

Specification

Stainless steel AISI 303

- Scale for type AS
 - Laser-engraved, black
 - Reference line on location ring
- Keyway
 - Tolerance slot width P9
 - Bore K 10: DIN 6885-1
 - Bore K 12 ... K 16: DIN 6885-2

RoHS

On request

- Special graduations (see „How to Order Graduations“)



NI

Indexing mechanisms GN 200 replace and simplify complicated indexing and safety mechanisms.

Besides the standard scale (Type AS) the control knob version may be supplied with any scale.

Regarding design, numbering run, numbering position and numbering sequence of the scale please see the layout for scale rings on the order sheet „How to Order Graduations“.

see also...

	Page
GN 200 Indexing Mechanisms (Steel)	QVX

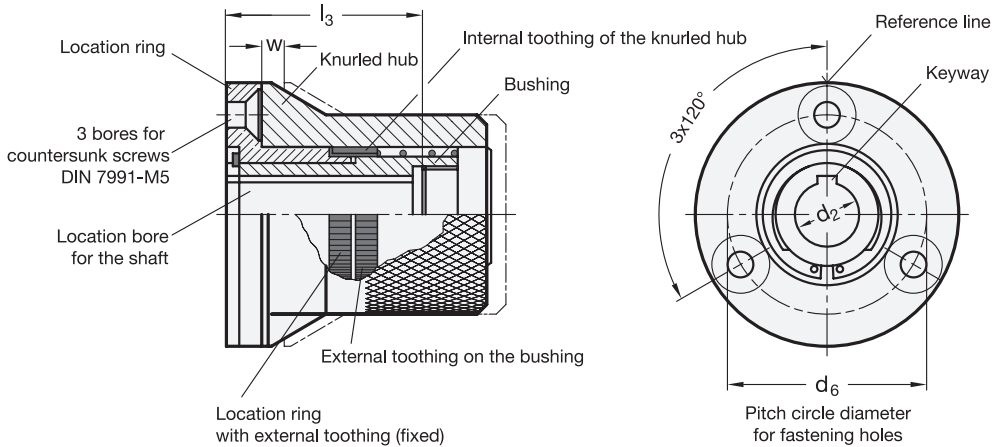
Technical Information

Functional and Technical Information	QVX
How to order - Graduations	QVX
Keyway P9 DIN 6885-1	QVX
Keyway P9 DIN 6885-2	QVX
ISO Fundamental Tolerances	QVX
Stainless Steel Characteristics	QVX

How to order

GN 200-52-K12-AS-NI

1	d_1
2	d_2
3	Type
4	Material



Applications

Indexing mechanisms can be used to adjust shafts or spindles by an angle of rotation of 6° (or a multiple thereof) and subsequently secure them against rotation by engaging in a serration.

Description

The indexing mechanism is a self-contained unit with all adjustment and securing elements accommodated in the smallest possible space. It consists of three main parts:

- The **bushing** is connected to the shaft with a parallel key/keyway or crossdowel.
- The **location ring** is fixed; it is mounted on the bushing and connected to the machine by 3 countersunk screws (e.g. DIN 7991-M5).
- The **knurled hub** connects the fixed location ring and the shaft which can be adjusted.

When locked, the internal toothing of the knurled hub (60 teeth) simultaneously engages with the external toothing of both the fixed location ring and the bushing connected to the shaft. To adjust the shaft, the knurled hub is pulled against spring pressure, disengaging from the location ring. The knurled hub however remains positively connected with the shaft via the external toothing of the bushing. By turning the knurled hub the shaft can now be adjusted.

More information

With 60 teeth, the following divisions can be achieved: 2, 3, 4, 5, 6, 10, 20, 30.

A simple method provides indexing of the shaft to a limited number of positions only, i.e. every 120° . For this purpose, the location ring is provided with a dowel pin that allows engagement in the serration only if it meets a counterbore in the knurled hub. This counterbore can be manufactured oversize as the dowel is for rough positioning only. Accurate positioning and load capacity is maintained via the engaged teeth.

For adjustment with a threaded spindle, it is recommended to assign the the 1.5 mm thread pitch to the standard scale with 60 graduation marks (Type AS) : 1 graduation = 0.025 mm.

The serration ensures more accurate and wear-free indexing than individual dowel pins.

If a very high torque has to be overcome during adjustment, unlocking and locking is more difficult due to the low backlash respectively the friction in the tooth flanks. In this case, it is recommended to use indexing levers GN 215.