



1

STANDARD EXECUTIONS

Assembly of the base by means of three holes for M5 countersunk head screws.



2

Bushing with H7 reamed hole and keyway:



3

- DIN 6885/1 tolerance P9 (see page A-15) for dimension K10 and in compliance with.



4

- DIN 6885/2 tolerance P9 (see page A-15) for dimension >K10. Assembly to the spindle by means of a keyway or a transversal pin.



5

- **GN 200-A:** black-oxide steel base and knob, natural steel bushing.



6

- **GN 200-B:** black-oxide steel base and knob, natural steel bushing.

Zinc-plated steel lever arm and cylindrical handle I.280 (see page 648) in Duroplast.

- **GN 200-A-NI:** AISI 303 stainless steel base, bushing and knurled knob.



7

FEATURES AND INSTRUCTIONS

The knob encloses a small mechanism which allows small rotation movements (6° or multiples) and the resulting movement and positioning of machine parts.



8

In rest position, the internal toothing of the knob (60 teeth) is connected simultaneously to the external toothing of the base (fixed) and to the toothing of the bushing (attached to the spindle).



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To move the spindle, the knob must be disengaged from the base toothing by pulling or lifting it, applying a force against the spring in the direction of the axis. The external toothing keeps the connection between the knob and the spindle during rotation.



10

60 teeth provide 2, 3, 4, 5, 6, 10, 12, 15, 20 and 30 precise divisions. If high torque is required to turn the spindle, problems may arise when engaging and releasing the toothing due to the limited clearance of the walls or the friction of the teeth. In this case, it is recommended to use indexing levers type GN 125 (see page 394).



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ASSEMBLY MODES

GN 200 indexing mechanisms with stop and positioning device can be built also to perform a spindle rotation and a lock of it in a given number of positions. For this purpose, a projecting pin inserted into the base allows the toothing to be re-engaged only when the pin is in contact with the corresponding holes in the knob (example 2).



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The hole can also be drilled with a certain clearance since the main function of the pin is to stop the movement, while the lock is provided by the toothing engagement.



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SPECIAL EXECUTIONS ON REQUEST

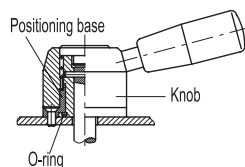
- Laser-engraved precision graduations (see Graduations on page 703).
- Chrome-plated matte finish.
- Indexing mechanisms with two arms.



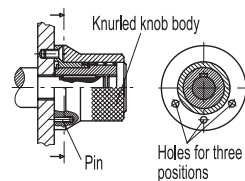
17



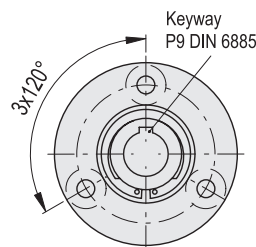
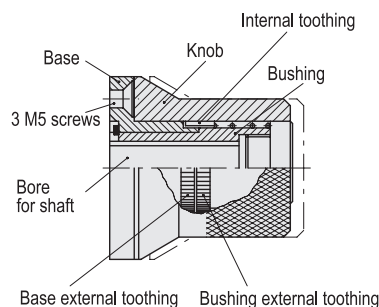
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**Example 1**

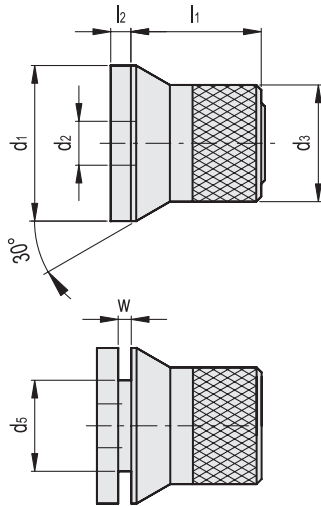
The shaft is connected to the bushing with a pin. The base keeps the system in position by means of screws and an O-ring.

**Example 2**

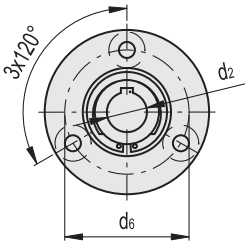
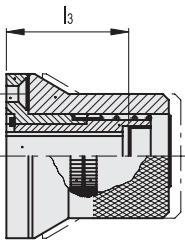
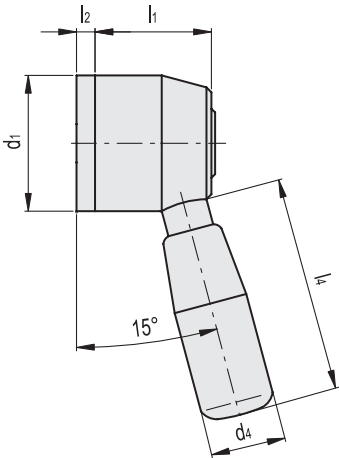
The shaft is connected to the bushing by means of a keyway. The mechanism is locked in one of the 3 positions when the pin fits one of the 3 holes in the knob.



GN 200-A
GN 200-A-NI



GN 200-B



Conversion Table 1 mm = 0.039 inch	
d1	
mm	inch
44	1.73
52	2.05

GN 200-A

METRIC

Code	Description	d1 -0.5	d2 H7	d3	d5	d6	l1	l2	l3	w	⚖
GN.25101	GN 200-44-K10-A	44	10	33	23	33	37	6	31	4	309
GN.25103	GN 200-44-K12-A	44	12	33	23	33	37	6	31	4	300
GN.25119	GN 200-52-K12-A	52	12	42	31.5	41.8	37.5	6	31.5	4	478
GN.25121	GN 200-52-K14-A	52	14	42	31.5	41.8	37.5	6	31.5	4	467
GN.25123	GN 200-52-K16-A	52	16	42	31.5	41.8	37.5	6	31.5	4	455

GN 200-B

Code	Description	d1 -0.5	d2 H7	d4	d5	d6	l1	l2	l3	l4	w	⚖
GN.25111	GN 200-44-K10-B	44	10	23	23	33	37	6	31	75	4	494
GN.25113	GN 200-44-K12-B	44	12	23	23	33	37	6	31	75	4	485
GN.25129	GN 200-52-K12-B	52	12	26	31.5	41.8	37.5	6	31.5	90	4	697
GN.25131	GN 200-52-K14-B	52	14	26	31.5	41.8	37.5	6	31.5	90	4	686
GN.25133	GN 200-52-K16-B	52	16	26	31.5	41.8	37.5	6	31.5	90	4	674

GN 200-A-NI

INOX STAINLESS STEEL METRIC

Code	Description	d1 -0.5	d2 H7	d3	d5	d6	l1	l2	l3	w	⚖
GN.25141	GN 200-44-K10-A-NI	44	10	33	23	33	37	6	31	4	309
GN.25143	GN 200-44-K12-A-NI	44	12	33	23	33	37	6	31	4	300
GN.25149	GN 200-52-K12-A-NI	52	12	42	31.5	41.8	37.5	6	31.5	4	478
GN.25151	GN 200-52-K14-A-NI	52	14	42	31.5	41.8	37.5	6	31.5	4	467
GN.25161	GN 200-52-K16-A-NI	52	16	42	31.5	41.8	37.5	6	31.5	4	455