



## KNURLED INDEXING KNOB WITH STEPLESS POSITIONING

### Materials:

1. Stainless steel (AISI 304) base with clutch housing and fixing holes.
2. Aluminium scale ring (Alloy 6060).
3. Reinforced polyamide knob. Resistant to oil and grease.
5. ABS hub cap.
6. Stainless steel (AISI 303) hexagon socket fixing cover.
7. Black-oxide treated steel circlip (UNI 3653).
8. Stainless steel (AISI 304) clutch and lock mechanism.
10. Stainless steel (AISI 303) self-tapping screws for fixing scale ring TCS 2.9x13.

### Surfaces and Colours:

1. Natural shiny surface with engraved arrow.
2. Black anodized surface.
3. Black satin finish (RAL 9011).
5. Grey satin finish (RAL7035).
- 6-8. Natural shiny surface.

### Fixing To The Machine:

Fixed to the machine with n°3 M5 cheese head Allen screws (position 9 in the drawing) (DIN 912).

### Graduated Flange:

The standard numbering on the scale ring goes from 0 to 9 with 10 graduations for each unit. (total of 100 graduations). For a minimum quantity of 30 pieces numbering can be executed to customer's specifications.

### Locking Shaft To Control Knob:

The shaft is coupled to the knob by means of a shaft with keyway. Caution! For technical reasons the keyway is very small. See attached diagram for bore/shaft dimensions.

### Bore:

The shaft bore is executed with an H7 tolerance. It does not require a side bore for fixing. The diameter of the bore is fixed and cannot be varied.

### SPECIAL REQUESTS:

- On request the hub cap can be provided in the colours specified in the table on page N-19.
- Upon request and for sufficient quantities (30) the numbering on the scale ring can be customized.

### CHARACTERISTICS:

The main feature of this product is the possibility of making a continuous adjustment of the machine shaft to which it is attached and of maintaining the selected position. The special clutch, the heart of the mechanism, permits very small continuous movements and therefore the possibility of making precision adjustments in both directions. Once the desired position is reached, the clutch prevents any rotation caused by small vibrations or movements arriving from the shaft. The use of this system prevents accidental or involuntary rotation of the shaft.

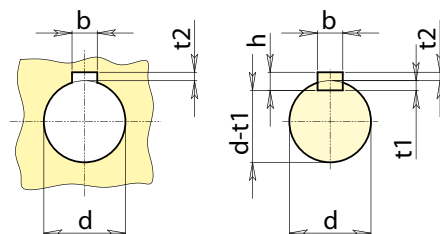
### LIMITATIONS:

The clutch is not sufficient to block any movements caused by strong vibrations. Moreover the control knob is not capable of withstanding the weight of the shaft, therefore it does not replace the normal support systems (bearings, flanges, etc...). The control knob cannot be used with motor drive systems.



Reduced depth keyway executed in compliance with a DIN 6885-2

d	bxh	t2	t1	d-t1
12	4x4	1,1	3	9

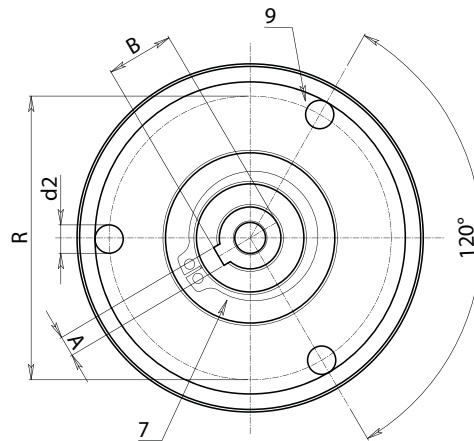
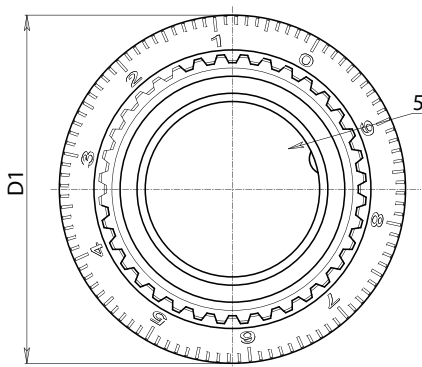
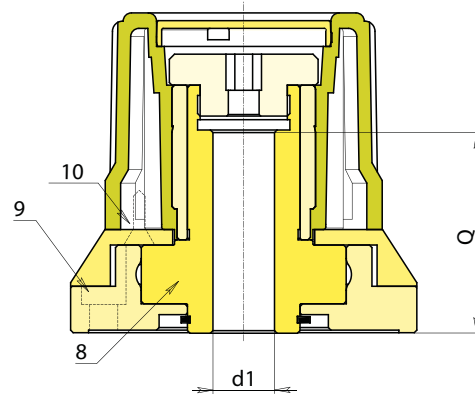
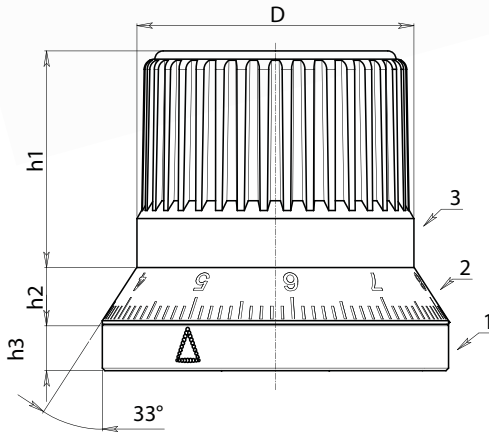


# N280



PA6  
+GF

UL94  
HB



Art.	D	D1	h1	h2	h3	R	d2	A	B	d1	H11	Q	g
N28054.HNZ1000113CIN	54	67,5	42	11	9	55	5,5	4	13,1	12	39	550	

Presumable presence in the stock in %

(☺) 90% (☹) 40% (⊖) 5% (⊕)

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**BOTECO**

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**N**  
**CONTROL KNOBS**

ver. NUK.10-1212