

870-0080

ULTRA-FINE ADJUSTMENT SCREWS



Ultra-Fine Adjustment Screws 870-0080 are compact and provide extremely high resolution. Special design provides a smooth and repeatable action by mating a high precision 0.25 pitch stainless steel screw with a high precision brass collar. The screws have either a hardened steel ball on top or a blunt ground tip.

The mounting surface of collar is either plain cylindrical or with a thread. The collars are ideally suitable for all mechanical stages and elements.

The handy dimensions of the knobs are optimally chosen to feel rotation as little as 0.5°–1°. This enables to achieve 0.5 μm positioning sensitivity. The knobs are made of hard aluminium and come in various colours: black, white, red, green, yellow, blue, etc. By default the knobs are in black or white colour, 5 mm thick (dimension “K”).

- **Stainless steel screw with pitch of 0.25 mm**
- **Precision brass collars of 3 types**
- **Tolerances better than tightest industry standards**

SPECIFICATIONS

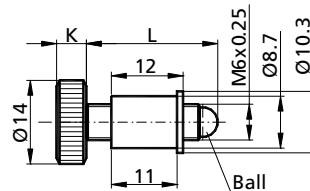
Adjustment screw thread	M6x0.25
Sensitivity	0.5 μm
Axial load capacity	50 N
Weight	0.01 to 0.02 kg



840-0033
with 870-0080-A3
installed

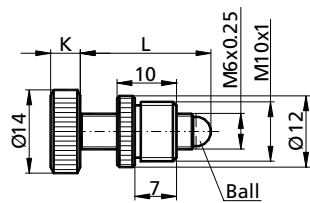
Complementary Products

Code	Page
840-0033	8.60



870-0080-A

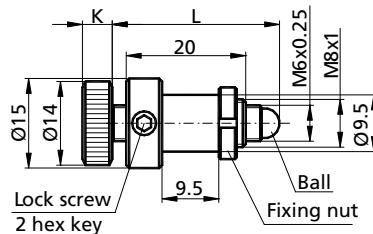
Model	Travel, mm	L, mm	Tip	Price, EUR
870-0080-A2	7	22	ball tip	18
870-0080-A3	10	25	ball tip	21
870-0080-A4	25	40	ball tip	34



870-0080-C

Model	Travel, mm	L, mm	Tip	Price, EUR
870-0080-C2	7	20	ball tip	21
870-0080-C3	10	23	ball tip	24
870-0080-C4	25	38	ball tip	34

The 870-0080-C has a mounting thread M10x1, but you may specify an alternative pitch of M10x0.5.



870-0080-E

Model	Travel, mm	L, mm	Tip	Price, EUR
870-0080-E1	5	28	ball tip	27
870-0080-E3	10	33	ball tip	29
870-0080-E4	25	48	ball tip	31

OPTICAL TABLES

BRACKETS & RAILS

BASE MOUNTS & ACCESSORIES

OPTICAL MOUNTS

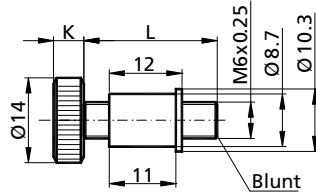
OPTICAL POSITIONERS

BASE POSITIONERS

TRANSLATION & ROTATION STAGES

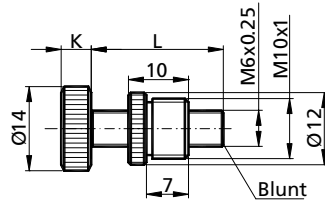
ADJUSTMENT SCREWS

MOTORIZED POSITIONERS



870-0080-B

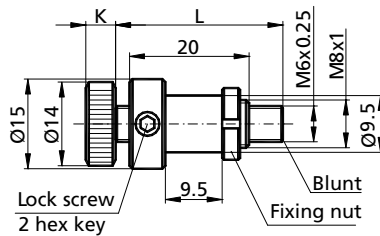
Model	Travel, mm	L, mm	Tip	Price, EUR
870-0080-B2	7	19	blunt tip	18
870-0080-B3	10	22	blunt tip	21
870-0080-B4	25	37	blunt tip	31



870-0080-D

Model	Travel, mm	L, mm	Tip	Price, EUR
870-0080-D2	7	19	blunt tip	21
870-0080-D3	10	22	blunt tip	24
870-0080-D4	25	37	blunt tip	34

The 870-0080-D has a mounting thread M10x1, but you may specify an alternative pitch of M10x0.5.



870-0080-F

Model	Travel, mm	L, mm	Tip	Price, EUR
870-0080-F1	5	25	blunt tip	27
870-0080-F3	10	30	blunt tip	29
870-0080-F4	25	45	blunt tip	31

Ordering information

Knobs come in 5 mm (standard), 10 mm or 15 mm length. When ordering, please append the standard screw code with the desired value for the length of the knob.

For example:

870-0080-A

nominal travel 7 mm, ball tip, standard 5 mm length knob.

870-0080-D2-K10

nominal travel 7 mm, blunt tip, 10 mm length knob.

870-0080-F4-K15

nominal travel 25 mm, blunt tip, 15 mm length knob.