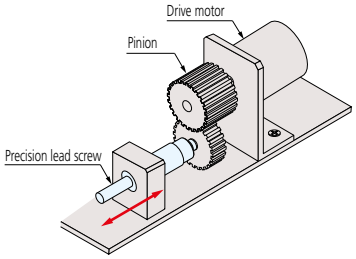
Precision Leadscrews

- Mitutoyo manufactures simple and less expensive precision leadscrews for precise positioning mechanisms and fine-feed mechanisms, in addition to standard micrometer heads.
- Mitutoyo also manufactures leadscrews with special specifications, such as 0.25mm pitch, as well as those with the standard 0.5mm feed pitch and with dimensions and forms that meet customer's requirements.
- Durability: 100-thousand operations are guaranteed (use condition: 4 kg load; 2 kg for **AS-6.5** and **BS-6.5**)
- Main applications:
  - Precision feed stages
  - Fine adjustment of optical elements (mirrors, prisms)
  - Fiber optic centering devices
  - Various assembly and adjustment jigs



SPECIFICATIONS

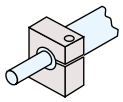
Order No.	Model	Stroke (mm)	Feed pitch (mm)	Feed accuracy (µm)	Stem diameter (mm)	Tip diameter (mm)	Tail diameter (mm)	Screw nominal diameter	Sleeve diameter (mm)	Measuring face	Mass	Others
04AZA160	AS-6.5	6.5	0.5	±5	ø6 $^{0}_{-0.008}$	ø3.5	ø3 $^{0}_{-0.01}$	M4.5 x 0.5	ø7	Hardened	10g	• AS type: Flat spindle tip without nut • BS type: Spherical spindle tip with nut
04AZA161	BS-6.5										11g	
04AZA162	AS-13	13		±2	ø9.5 $^{0}_{-0.009}$	ø5	ø5 $^{0}_{-0.012}$	M7.35 x 0.5	ø10.5		27g	
04AZA163	BS-13										30g	
04AZA164	AS-25	25			ø10 $^{0}_{-0.009}$	ø6.35	ø6 $^{0}_{-0.015}$		ø12	Carbide	61g	
04AZA165	BS-25										64g	

DIMENSIONS

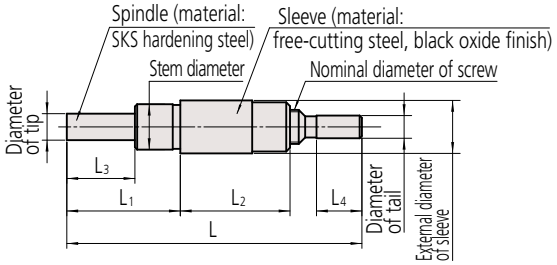
Type AS: Plain stem

Unit: mm



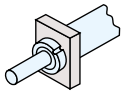


Plain stem

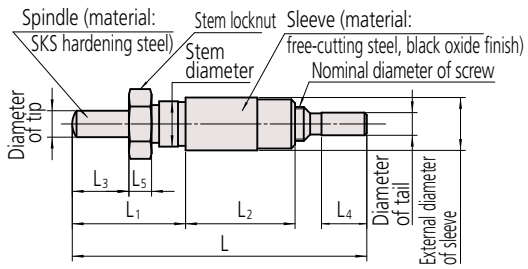


Type BS: Stem with locknut





Stem locknut Spherical face



Order No.	L	L1	L2	L3	L4	L5
04AZA160	39	15	14.5	9	6	—
04AZA161				7.5		3
04AZA162	57.5	25	21.5	15.5	8	—
04AZA163						4
04AZA164	96.5	42	39.5	27	10	—
04AZA165						4