

Main applications:

- Precision feed stages
- Fine adjustment of optical elements (mirrors, prisms)
- Fiber optic centering devices
- Various assembly and adjustment jigs

Precision Lead Screws

- Mitutoyo manufactures simple and economical precision lead screws for precise positioning mechanisms and fine-feed mechanisms, in addition to the conventional micrometer heads.

- Mitutoyo also manufactures lead screws with special specifications, such as 0.25 mm pitch, as well as those with the standard 0.5 mm feed pitch and with dimensions and forms that meet customer's requirements.



SPECIFICATIONS

| Code No. | Model* | Range (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 (g) | |
|----------|--------|------------|-----------------|--------------------|--------------------|-------------------|--------------------|------------------------|----------------------|----------------|----------|----|
| 04AZA160 | AS-6.5 | 0 - 6.5 | 0.5 | ±5 | ø6.0.008 | ø3.5 | ø3.0.01 | M4.5x0.5 | ø7 | Hardened | 10 | |
| 04AZA161 | BS-6.5 | | | | | | | | | | 11 | |
| 04AZA162 | AS-13 | 0 - 13 | | ±2 | ø9.5.0.009 | ø5 | ø5.0.012 | | M7.35x0.5 | | ø10.5 | 27 |
| 04AZA163 | BS-13 | | | | | | | | | | | 30 |
| 04AZA164 | AS-25 | 0 - 25 | | ±2 | ø10.0.009 | ø6.35 | ø6.0.015 | M7.35x0.5 | ø12 | Carbide tip | 61 | |
| 04AZA165 | BS-25 | | | | | | | | | | 64 | |

- Measuring face: Material/Alloy tool steel (**AS-25** and **BS-25** are Carbide tip), Hardness/60 HRC or more (**AS-25** and **BS-25** are 90 HRA or more), Lapped
- Durability: 100,000 operations are guaranteed (use condition: 4 kg load; 2 kg for **AS-6.5** and **BS-6.5**)
- * AS type: Flat spindle tip without nut, BS type: Spherical spindle tip with nut
- Note: Refer to page 03-49 for details of the recommended maximum loading limit.

DIMENSIONS

Type AS: Plain Stem Unit: mm

Type BS: Stem with Locknut

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