

ABSOLUTE Linear Scale AT500

Series 539 - Range SC 100-2200, HC 100-1000mm

- Sealed type, ABSOLUTE linear scales with very fine resolution up to 0,05µm.
- Direct connection with NC machine tools is possible.
- ABS AT505/AT503: Supports Mitutoyo standard serial interface.
- ABS AT545/AT543: Supports Mitsubishi Electric high-speed serial interface.
- ABS AT555/AT553: Supports Fanuc high-speed serial interface.
- Two types are available:
 - SC model: high-rigidity type
 - HC model: high-accuracy type.
- Contact Mitutoyo for installation dimensions.



Specifications

Effective range (L0)	SC model 100 - 2200 mm HC model 100 - 1000 mm
Accuracy at 20°C	SC model (3+3L/1000) µm HC model (2+2L/1000) µm L = Effective range (mm)
Max. drive speed	150 m/min. (SC model 72 m/min: ABS AT5_5H model)
Resolution	AT5_5 model: 0,005 µm AT5_3 model: 0,05 µm
Signal period	20 µm



AT533-HC



AT533-SC

No.
AT500*



Refer to the ABS Linear Scale AT500-S/H brochure for more details

Linear Scale ST24

Series 579 - Range 10-3000mm

Standard type

- Maximum of up to 1200mm/s response speed.
- Includes LED alarm for detection of overspeed and sinusoidal signal anomalies.
- Contact Mitutoyo for installation dimensions.

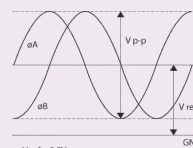


ST44

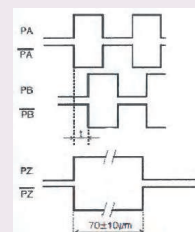
No.
ST24B
ST24C

Specifications

Effective range (L0)	10 - 3000 mm
Accuracy at 20°C	10 - 300 mm ±1 µm 350 - 500 mm ±2 µm 600 - 1000 mm ±3 µm 1100 - 3000 mm ±3 µm/m
Max. drive speed	ST24: 1200 mm/sec
Signal period	20 µm
Scale reference points	10 - 80 mm Centre point 100 - 300 mm 50 mm
Signal period	ST24: 10 µm
Resolution	ST24: 0,05; 0,1; 0,5; 1 µm
Output waveform	Two 90° phase-shifted sinusoidal signals Two 90° phase-shifted square-wave signals (RS422)



Model C



Model B/C