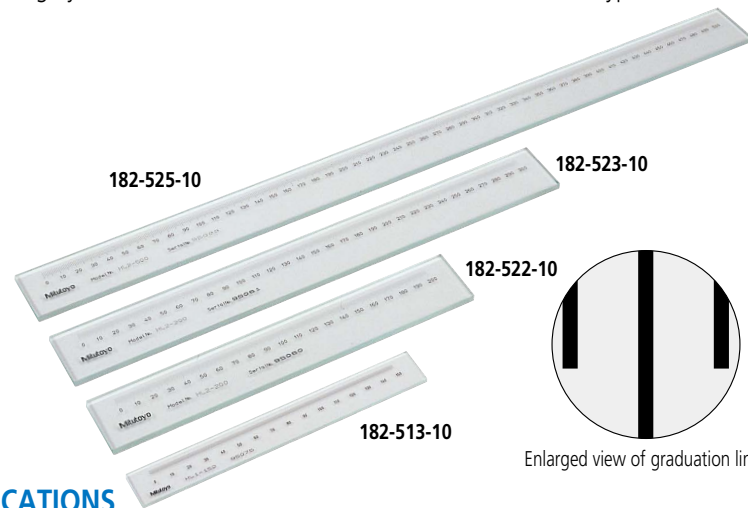


Technical Data

- Glass material: Soda-lime glass
- Thermal expansion coefficient: $8.5 \times 10^{-6}/K$
- Accuracy (at 20 °C): $(1.5 + 2L/1000) \mu m$,
L=Measured length (mm)

Working Standard Scales SERIES 182

- These standard scales can be used to calibrate various measuring instruments and to confirm traceability to upper-level calibration devices and reference instruments. For example, they can be used in daily and periodic inspections of profile projector/microscope stages and of optical length measurement systems.
- These scales are manufactured using high-accuracy lithographic technologies. Mitutoyo has developed these technologies at the dedicated underground facility which was custom-built to produce highly accurate scales. Various sizes are available for each type to suit the application.



SPECIFICATIONS

Metric						
Order No.	Range (mm)	Graduation (mm)	Length (mm)	Inspection pitch (mm)	Graduation line thickness (μm)	Mass (kg)
182-511-10	50	0.1	75	5	20	0.23
182-512-10	100		125			0.24
182-513-10	150		175			0.25
182-514-10	200		225			0.26
182-521-10	100	0.5	130	20	50	0.27
182-522-10	200		230			0.32
182-523-10	300		330			0.57
182-524-10	400		430			0.71
182-525-10	500	530	0.86			
182-531-10	250	1	280	25	100	0.55
182-532-10	500		530			1.22
182-533-10	750		780			0.23
182-534-10	1000		1030			1.54

Note: An inspection certificate produced by a standard scale automatic calibration system is supplied as standard.

DIMENSIONS

