



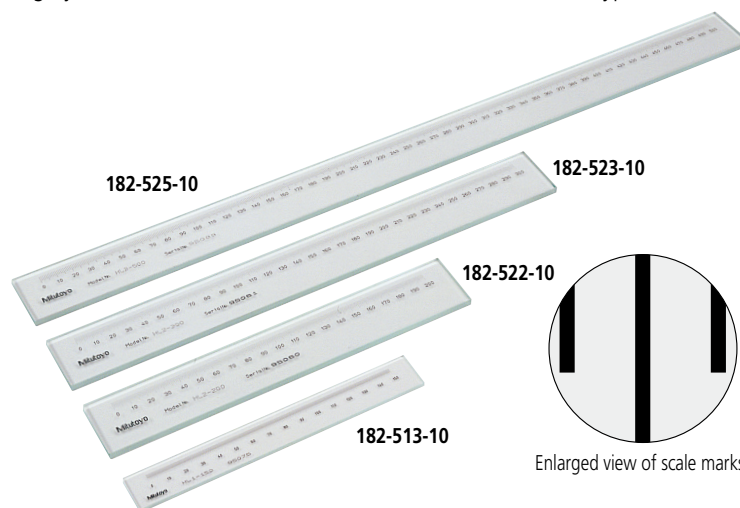
An inspection certificate is supplied as standard.
Refer to page X for details.

Technical Data

Accuracy (at 20°C): $(1.5+2L/1000)\mu\text{m}$,
L = Measured length (mm)
Glass material: Sodium glass
Thermal expansion coefficient: $(8\pm 1)\times 10^{-6}/\text{K}$
Graduation:
0.1mm (thickness: 20 μm)
0.5mm (thickness: 50 μm)
1mm (thickness: 100 μm)

Working Standard Scales SERIES 182

- Ideal for checking magnification accuracy of profile projectors and microscopes, and the table feeding accuracy of measuring equipment.
- 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	Graduation	Length	Inspection pitch	Graduation line thickness	Length
182-511-10	50mm	0.1mm	75mm	5mm	20μm	0.23kg
182-512-10	100mm		125mm	10mm		0.24kg
182-513-10	150mm		175mm			0.25kg
182-514-10	200mm		225mm			0.26kg
182-521-10	100mm	0.5mm	130mm	20mm	50μm	0.27kg
182-522-10	200mm		230mm			0.32kg
182-523-10	300mm		330mm			0.57kg
182-524-10	400mm		430mm			0.71kg
182-525-10	500mm		530mm			0.86kg
182-531-10	250mm	1mm	280mm	25mm	100μm	0.55kg
182-532-10	500mm		530mm			1.22kg
182-533-10	750mm		780mm			0.23kg
182-534-10	1000mm		1030mm			1.54kg

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

DIMENSIONS

