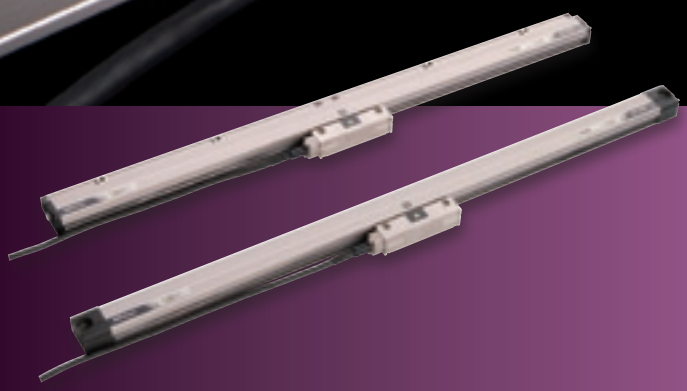
Catalog No. E13020

Mitutoyo

Absolute Scale Unit
ABS AT1300 Series

Mitutoyo Quality

Stain-resistant High-accuracy/High-resolution Optical Scale



Digital Scale and DRO Systems

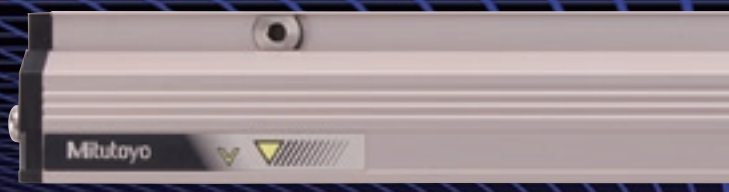
NEW Products

Mitutoyo

Stain-resistant High-accuracy/

NEW Products

ABS AT1300 Series



Meets demand for higher accuracy/resolution

- Delivers high accuracy and the outstanding resolution of 0.001 µm, the best-in-class in absolute scales.
- Allows space-saving design thanks to a slim form. AT500-S and AT500-H are compatible with each other in installation.

Increased resistance to stains and scratches

- This scale has a higher resistance to the negative effect of stains and scratches on the scale surface than the conventional optical type that uses an image pickup system as the detection principle.

High rigidity type ABS AT1300-S

High accuracy type ABS AT1300-H

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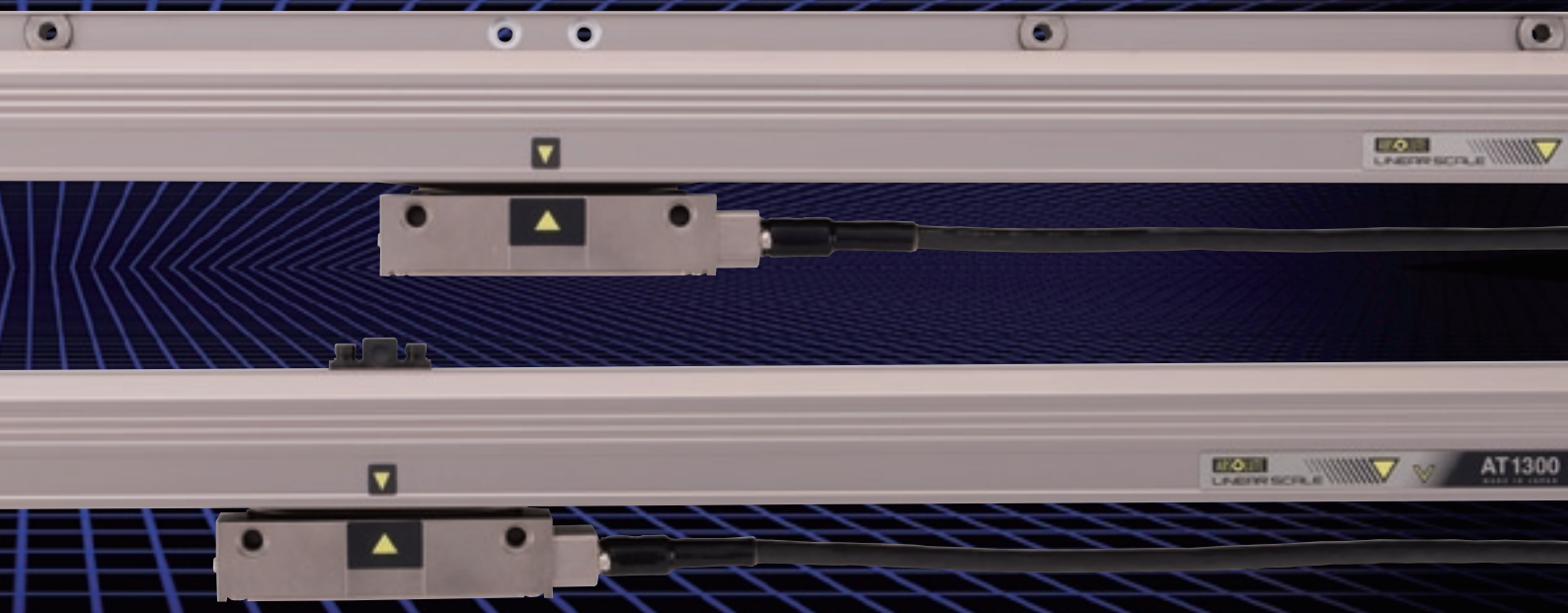
/High-resolution Optical Scale



SPECIFICATIONS

	ABS AT1300	
	High rigidity type	Enhanced accuracy type
Detection method	Photoelectric type (two-sided telecentric optical system)	
Maximum effective measuring range	2.2 m	1 m
Resolution	0.001/0.01/0.05 µm	
Indication accuracy (20°C) L_0: effective range (mm)	3+3L_0/1000 µm	2+2L_0/1000 µm
Maximum response speed	3 m/s	
Cross-section size	23×66 mm	24×64.5 mm
Available interfaces*	FANUC CORPORATION, Serial αi Interface	
	Mitsubishi Electric Corporation, high-speed serial interface	
	Mitutoyo ENSIS interface	

* Be sure to contact each manufacturer for details of the applicable systems (availability of connection).

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Coordinate Measuring Machines

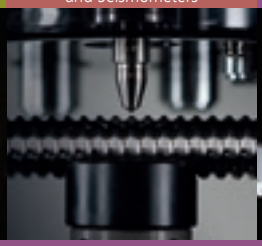
Vision Measuring Systems

Form Measurement

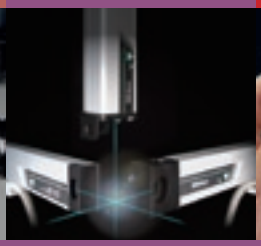
Optical Measuring

Sensor Systems

Test Equipment and Seismometers



Digital Scale and DRO Systems



Small Tool Instruments and Data Management

Whatever your challenges are, Mitutoyo supports you from start to finish.

Mitutoyo is not only a manufacturer of top quality measuring products but one that also offers qualified support for the lifetime of the equipment, backed up by comprehensive services that ensure your staff can make the very best use of the investment.

Apart from the basics of calibration and repair, Mitutoyo offers product and metrology training, as well as IT support for the sophisticated software used in modern measuring technology. We can also design, build, test and deliver bespoke measuring solutions and even, if deemed cost-effective, take your critical measurement challenges in-house on a sub-contract basis.

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