

Smart Encoder Systems

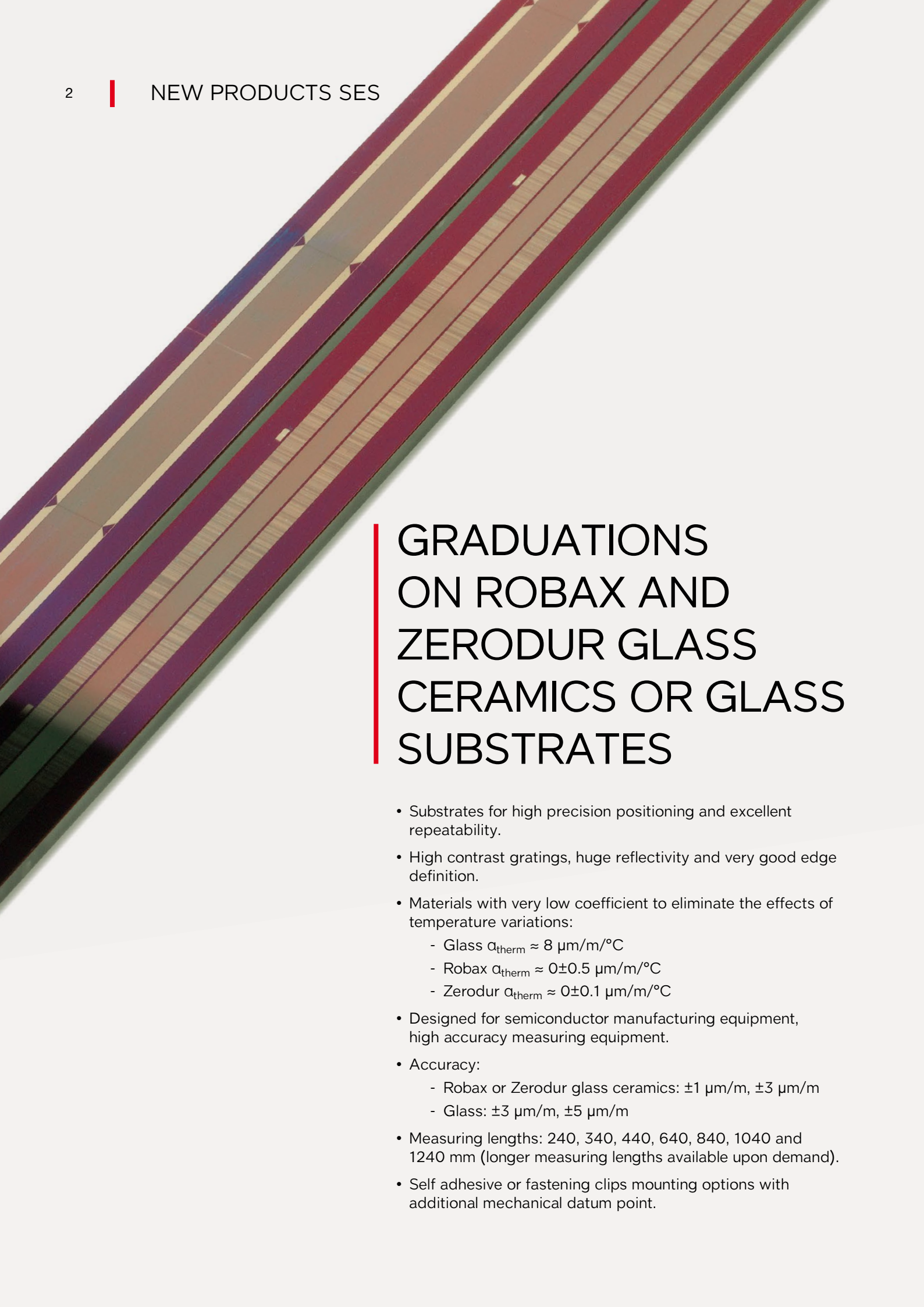
LOW EXPANSION COEFFICIENT LINEAR ENCODERS

FAGOR
AUTOMATION



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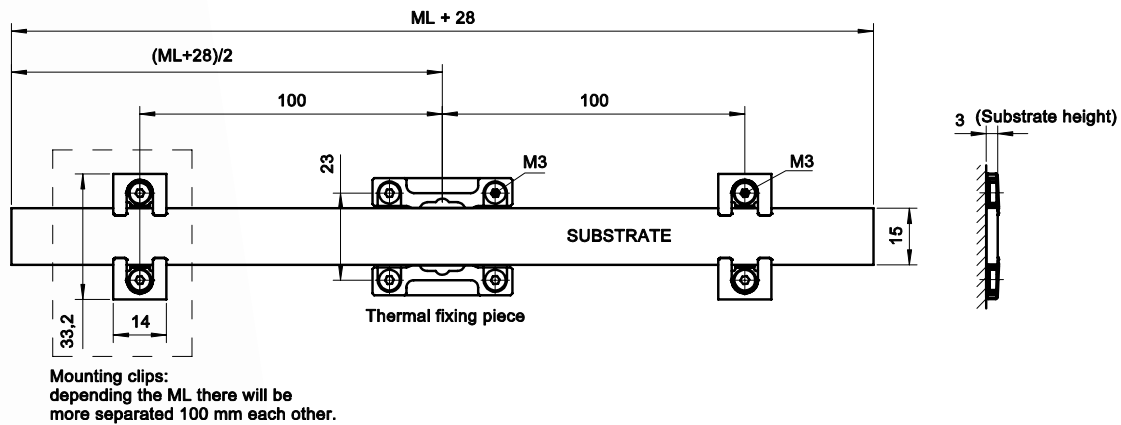




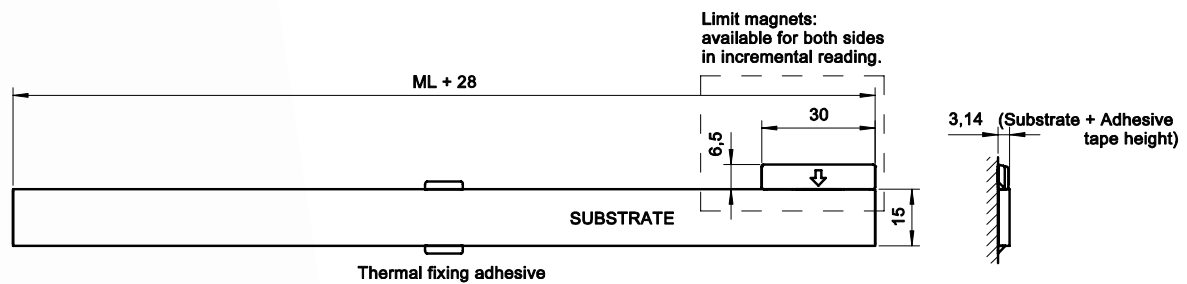
GRADUATIONS ON ROBAX AND ZERODUR GLASS CERAMICS OR GLASS SUBSTRATES

- Substrates for high precision positioning and excellent repeatability.
- High contrast gratings, huge reflectivity and very good edge definition.
- Materials with very low coefficient to eliminate the effects of temperature variations:
 - Glass $\alpha_{\text{therm}} \approx 8 \mu\text{m}/\text{m}/^\circ\text{C}$
 - Robax $\alpha_{\text{therm}} \approx 0 \pm 0.5 \mu\text{m}/\text{m}/^\circ\text{C}$
 - Zerodur $\alpha_{\text{therm}} \approx 0 \pm 0.1 \mu\text{m}/\text{m}/^\circ\text{C}$
- Designed for semiconductor manufacturing equipment, high accuracy measuring equipment.
- Accuracy:
 - Robax or Zerodur glass ceramics: $\pm 1 \mu\text{m}/\text{m}$, $\pm 3 \mu\text{m}/\text{m}$
 - Glass: $\pm 3 \mu\text{m}/\text{m}$, $\pm 5 \mu\text{m}/\text{m}$
- Measuring lengths: 240, 340, 440, 640, 840, 1040 and 1240 mm (longer measuring lengths available upon demand).
- Self adhesive or fastening clips mounting options with additional mechanical datum point.

SUBSTRATE WITH MOUNTING CLIPS (Incremental and absolute reading)

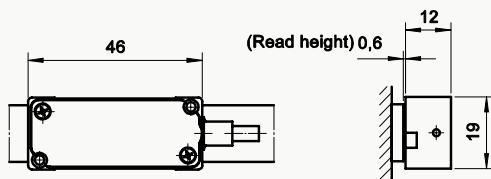


SUBSTRATE WITH ADHESIVE (Incremental and absolute reading)

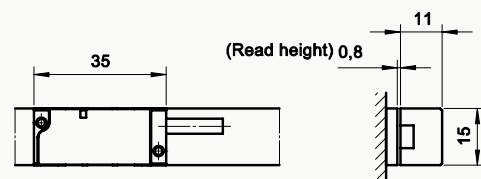


Reader heads

ABSOLUTE READER HEAD



ITM INCREMENTAL READER HEAD





Fagor Automation holds the ISO 9001 Quality System Certificate and the **CE** Certificate for all products manufactured.



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Fagor Automation, S. Coop.

Bº San Andrés, 19
E-20500 Arrasate - Mondragón
SPAIN

Tel.: +34 943 039 800

Fax: +34 943 791 712

E-mail: contact@fagorautomation.es

www.fagorautomation.com



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