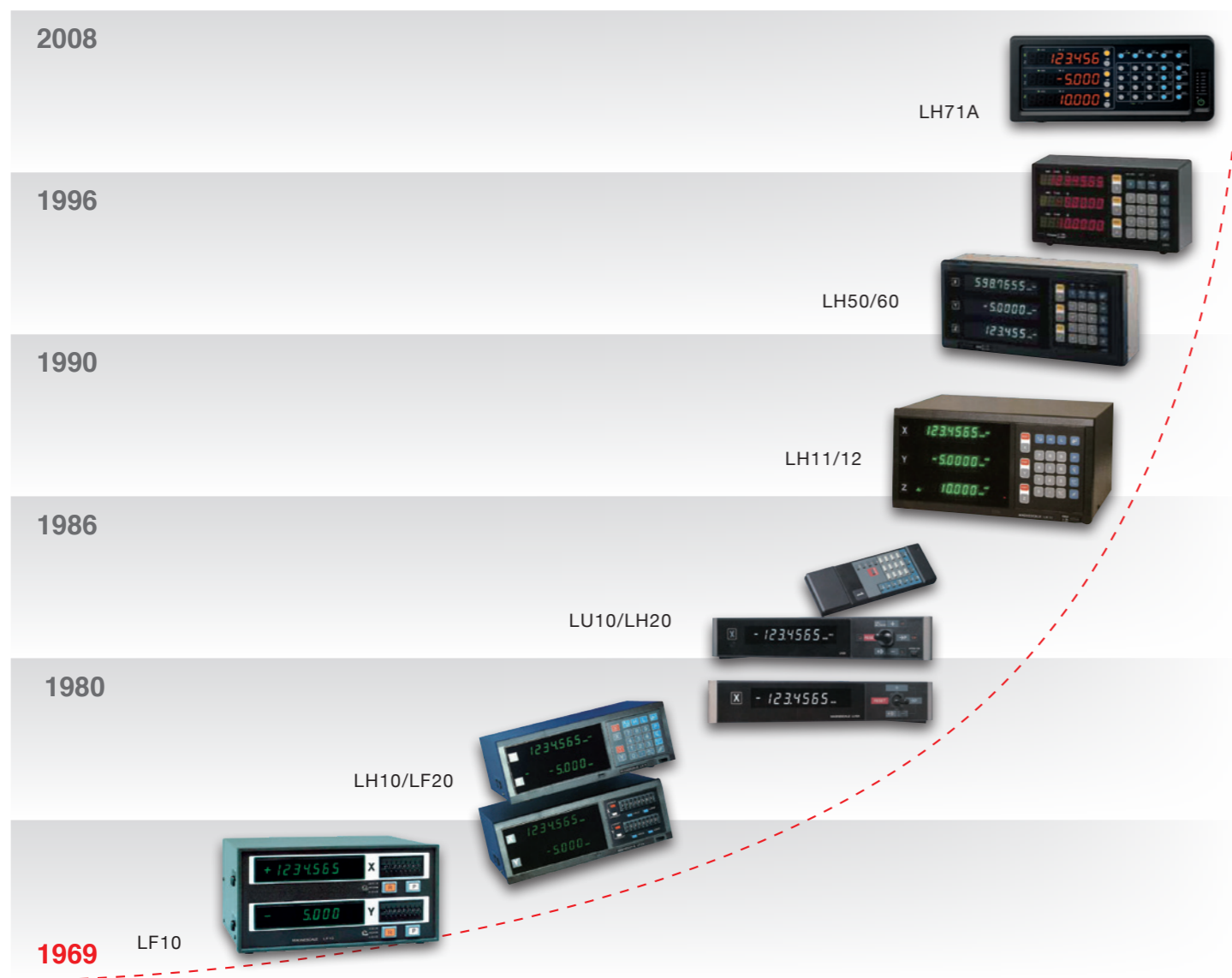


SPEED X PRECISION

Over Fifty Years of Legendary Reliability Magnescale counter history



Some old models may require adapter or other accessories. If you have any question, please contact us.

Magnescale Co., Ltd.

| | | | |
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Digital Readout

Magnescale Co., Ltd.

**For over 50 years,
Magnescale has been providing
superior accuracy and
legendary reliability to
customers around the world.**

Magnescale magnetic scale technology can maintain high accuracy even under the harsh environments without being affected by condensation, oil or coolant.

With a wide range of capability and installation options, Magnescale magnetic scale technology is suitable for all types of machines.

The Advantages of Magnetic Scales:

- Resistant to oil, dust, vibration and shock
- Easy installation

Suitable for a wide range of applications:

- Grinding machines
- Milling machines
- Lathes
- Drilling machines
- Measuring machines
- Measuring fixtures

Digital Readouts



Multifunction counters LG20, LH70, LH71, LH71A, LH72

The LH70 Series are position counters developed for general-purpose machine tools. LH71A-3 can be used for milling machines and lathes applications by switching initial settings. LH72 is designed for lathes.

| Multifunction units LG20 / LH70/71/72 series | | | | |
|--|--|--|--------------|------|
| | LG20 | LH70 | LH71 / LH71A | LH72 |
| Display axes | 1, 2, 3 | | | 2 |
| Display | 7 digits, orange LEDs, floating minus sign | | | |
| Display resolution | 0.1/0.5/1/5/10 μm | 0.1/0.5/1/5/10 μm 1 s /10 s/ 1 min/10 min | | |
| Input signal | A/B quadrature/Z signal (EIA-422) | | | |
| Compatible measuring systems | GB-ER, SJ700A and PL20C with SL110 / 130 | | | |
| Power supply | 12 VDC using separate power supply unit PSC-2*A with 100-240 VAC | | | |
| Mass | 1.5 kg | | | |

Functions at a glance

| Model | LG20 | LH70 | LH71 | LH71A | LH72 |
|----------------------------|------|------|------|-------|------|
| Reset | ■ | ■ | ■ | ■ | ■ |
| Preset | ■ | ■ | ■ | ■ | ■ |
| Absolute/Incremental | | ■ | ■ | ■ | ■ |
| Diameter display | ■ | ■ | ■ | ■ | ■ |
| Angle display | | ■ | ■ | ■ | ■ |
| Alarm display | ■ | ■ | ■ | ■ | ■ |
| Zero point detection | | ■ | ■ | ■ | ■ |
| Datum points | | 10 | 150 | 150 | |
| Tool memory* | | 12 | 99 | 99 | 99 |
| Midpoint calculation | | ■ | ■ | ■ | ■ |
| Scaling | | | ■ | ■ | ■ |
| Addition function* | | ■ | ■ | ■ | ■ |
| Programming function | | | ■ | ■ | ■ |
| Bolt hole circle | | ■ | ■ | ■ | |
| Line hole | | | ■ | ■ | |
| Simple R cutting | | ■ | ■ | ■ | |
| Linear error compensation | ■ | ■ | ■ | ■ | ■ |
| Segment error compensation | | | ■ | ■ | ■ |
| Data storage | ■ | ■ | ■ | ■ | ■ |
| Energy saving function | ■ | ■ | ■ | ■ | ■ |
| Navigation function | | ■ | ■ | ■ | ■ |
| External reset | | | | ■ | ■ |
| Touch sensor function | | | | ■ | |

* only 3 axis display

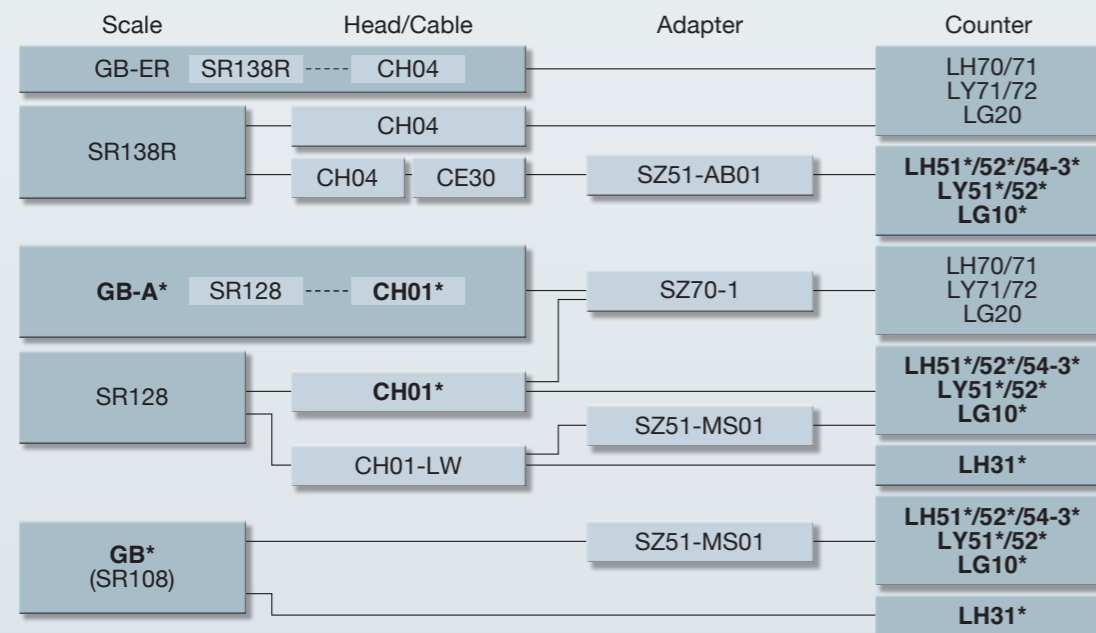
GB-ER

Renowned for its legendary accuracy and reliability, the GB-ER is suitable for precise, high-resolution applications.

- Excellent durability against workshop conditions - resistant to oil, dirt, shock and vibration
- Compact design for easy installation
- Resolution: 0.5 μm
- Accuracy: (5+5L/1000) μm
- Output signal : A/B quadrature, Z signal



GB Series Connection Chart



Products marked * are discontinued

SJ700A

Reliable magnetic scale general purpose applications

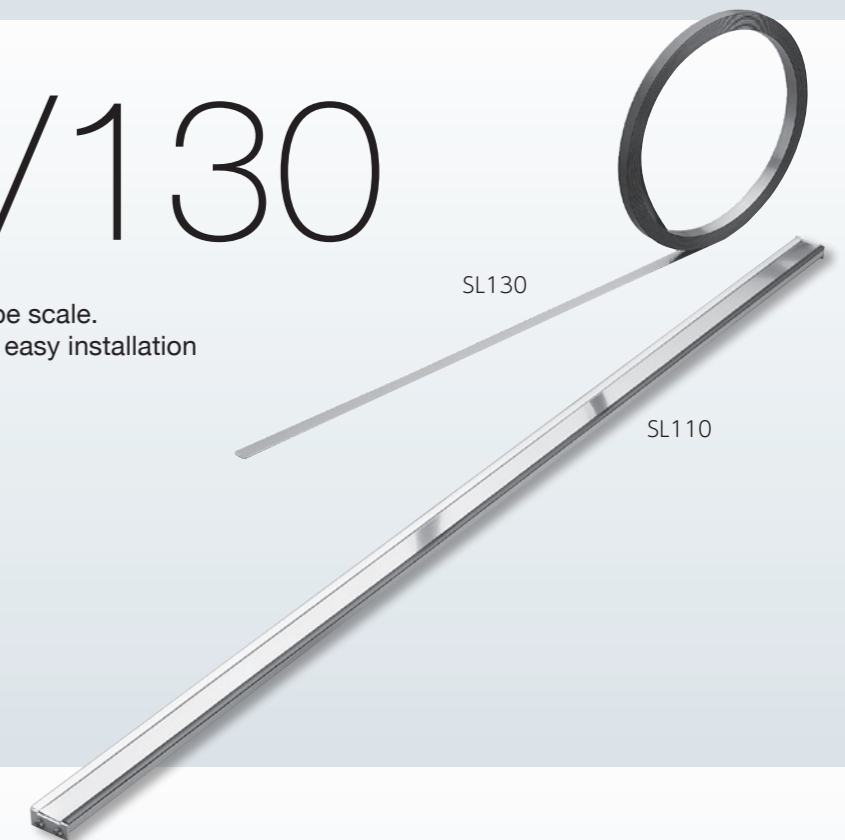
- Same coefficient of expansion as machine tools
- Measuring length: 150 mm to 1600 mm / 5.9" to 62.9"
- Resolution: 5 μm
- Accuracy: $\pm 10 \mu\text{m}$, $\pm 15 \mu\text{m}$
- Output signal: A/B quadrature



SL110/130

Digiruler is a non-contact, flexible magnetic tape scale. This design creates unparalleled durability and easy installation for all types of measurement applications.

- Available in lengths up to 30 m (SL130)
- Cost efficient for applications from woodworking to metal cutting
- Resolution: 10 μm (with PL20C)
- Max. response speed: 300 m/min (with PL20C)



PL20C

Reader Head with Cable (for SL110/SL130)

- Excellent resistance to workshop conditions (IP65)
- Resistant to oil, dirt, vibration, and shock
- Resolution: 10 μm (with SL110/130)
- Max. response speed: 300 m/min
- Output signal: A/B quadrature



