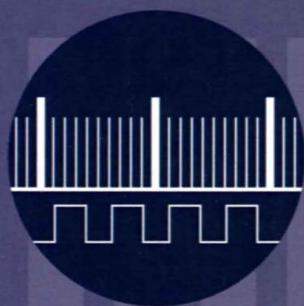




**High precision incremental length measurement**

**High Precision Line magnetic tape**



**Magnetic Systems in excellence**

# Innovative solution for incremental length measurement by magnets



## High Precision Line magnetic tape (HPL)

Incremental length measurement



### Characteristics

#### High precision

- System precision of  $\pm 8 \mu\text{m}$  for 1 mm pole pitch

#### Highly variable

- Pole length freely selectable from 0.04 mm
- Reference marks optional
- Customised solutions using intelligent matching of the pole pitch to the latest developments in MR/Hall technology

#### Extremely robust

- The magnetic tape of elastomer ferrite compound on a stainless steel backing tape has excellent resistance to temperature and various media

#### Economic

- State-of-the-art production equipment ensures an outstanding price/performance ratio
- Replaces high-cost optical or inductive measuring systems

## The Bogen competence: Design of components and modules for magnetic solutions.

Bogen's flexible and efficient magnetic technology guarantees the technically best solution for complex measuring and control tasks, meets the highest demands on precision, ensures extremely short development times and is very economical.

We wish to stay one step ahead and set the trends for the future. If you use our patented technologies, you will be setting new standards. Companies throughout the world trust us and our products.

We invest above average sums in R&D and are consistently improving our state-of-the-art manufacturing facilities. All advantages for our customers, allied with extremely high benefits - for you, your customers and for the environment.

Our dynamic Bogen technology provides what conventional standard magnetization methods are no longer able to provide with regard to accuracy, precision and cost effectiveness. Thus immense potential opens up for our customers in high precision linear position determination, e.g. for linear motors and a variety of other demanding applications. In addition to its incremental magnetic tapes in freely selectable pole pitches, Bogen also manufactures magnetic tapes for absolute position determination in multitrack technology, single-track absolute or using a vernier scale: from prototype numbers to long-run production.



Wind energy

Photovoltaics

Mechanical engineering

Robotics

Automation

Automotive

## The Bogen solution:

- Accuracy class  $\pm 8 \mu\text{m}$  for demanding length measurement
- Freely selectable pole lengths for customised adaptation to innovative Hall/MR sensor technology
- Magnetic tape with excellent temperature and media resistance to 120° C
- Optimised production facilities ensure an outstanding price/performance ratio



**High precision absolute length measurement**



**Magnetic Systems in excellence**

# Innovative solution for incremental length measurement by magnets



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Incremental length measurement



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