

Press Release Integrated

SCNNEEBERGER presents a profile rail guide with integrated position measurement at EMO

The solution combines high precision with simple integration and creates more installation space, higher process reliability, and greater cost efficiency in machine design.

Integrated instead of attached – freeing up installation space in the machine

Position feedback is integrated directly into the profile rail guide.

Installation and commissioning are fast and alignment-free – **compact, efficient, repeatable.**

- Saves installation space – position measurement integrated into the profile rail
- Machine upgrade – simple and fast retrofit
- Absolute position feedback – ready with position data right at power-up

Rugged & Low Maintenance

Ready for harsh environments.

Magnetoresistive sensing and a sealed design ensure reliable measurement under shock, vibration, and contamination – **IP68 rating, purge-air-free operation, and integrated condition monitoring.**

- IP68 – Industry-leading sealing for harsh environments
- Condition monitoring — built-in fault and status reporting
- Reduced service demand – shorter repair time (MTTR)

Long Axes? Modular Scaling

Scalable lengths, continuous measurement.

Modular rails can be combined to virtually any measuring length. Measurement remains continuous across rail joints – individual segments are fully replaceable, multiple read heads per axis possible.

- Modular design – scalable measuring lengths for long axes
- Full replaceability – individual rail segments can be exchanged
- Time savings – automatic scale alignment during assembly

Precision & Process Capability

Direct measurement — better manufacturing.

Position feedback is located where it matters most: in the guideway. Absolute or incremental versions deliver stable position data – from power-up through series production.

- Integrated measurement – position feedback without external add-ons
- Absolute or incremental — instant position on power-up (absolute) or high-resolution counts (incremental)
- Multiple read heads per axis – redundancy, reference or process functions

Interfaces & CNC Integration

Plug in, parameterize, produce.

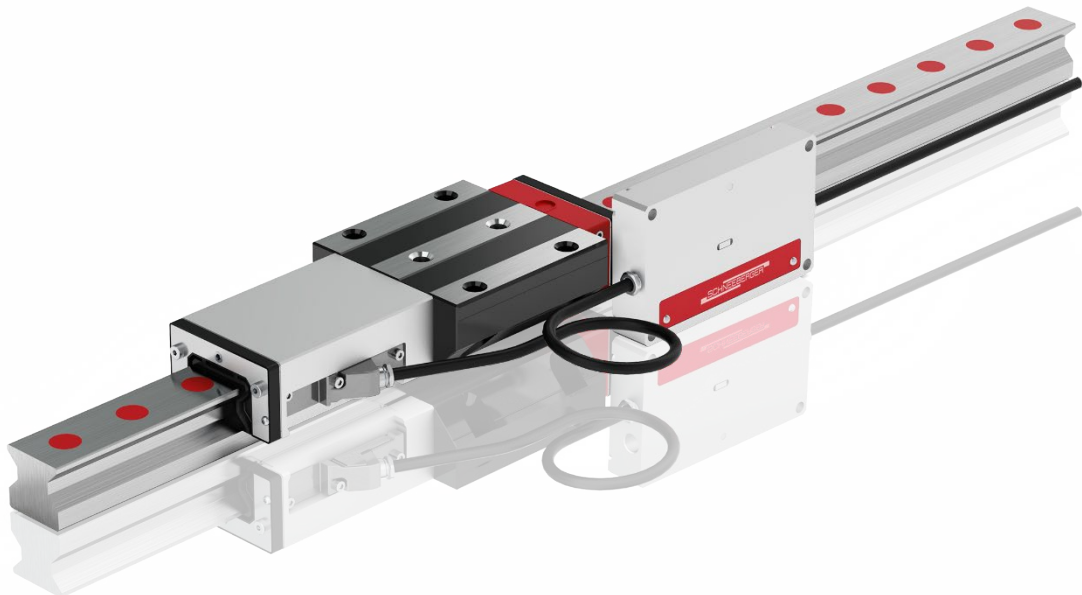
Compatible with all major controls and protocols – from serial industrial protocols to RS-422. This reduces integration effort and accelerates commissioning.

- Plug-&-work – mechanically integrated, electrically connected in no time
- Easy parameterization – reduces commissioning time
- Broad interface compatibility – e.g., Siemens DRIVE-CLiQ, FANUC, Mitsubishi, SSI, BiSS – plus RS-422 (quadrature) and 1 Vpp (sin/cos)

Fewer Variants. Less Effort. Lower Cost.

One read head for all rail sizes, modular exchangeable segments, and purge-air-free operation reduce cost in procurement, operation, and service across the entire lifecycle.

- One read head for all sizes – lower inventory
- Purge-air-free operation – contamination-tolerant measurement reduces cost
- Resource-friendly – replace single segments instead of the complete axis



Profile rail guide with integrated position measurement, MONORAIL-AMS

SCHNEEBERGER Group

SCHNEEBERGER is a global OEM supplier serving industries such as machine tools, semiconductors, medical technology and more. Our extensive portfolio includes linear guides, measuring systems, racks, slides, positioning systems, ball screws and mineral casting. SCHNEEBERGER is known for excellence and innovation and is committed to delivering high-performance solutions that drive industrial progress.