



SCHNEEBERGER

Photonics  
The art of precise  
light manipulation



SCHNEEBERGER

## Solutions for Photonic Applications with Repeatable Precision for Exact and Stable Processes

Photonics is a subfield of optics that deals with the generation, detection, and targeted manipulation of light. This includes, among others, emission, transmission, modulation, signal processing, amplification, and sensory applications.

As pioneers in the field of motion control, SCHNEEBERGER offers optimal solutions for this area of application. From optical measurement and testing technology in the semiconductor industry, to high-precision surgical systems in medical technology, and demanding machining systems: SCHNEEBERGER supports all of these with solutions that make processes smoother, more stable, and more efficient overall.

As a global, financially and technologically solid family-owned company, we — together with our highly motivated employees — make a significant and sustainable contribution to the success of our customers. Our high-quality, high-precision products and our reliable delivery play a key role in the successful development, production, and sales of products in this future-oriented market.

## Configurable Options Tailored for Your Application

### Cage Control System



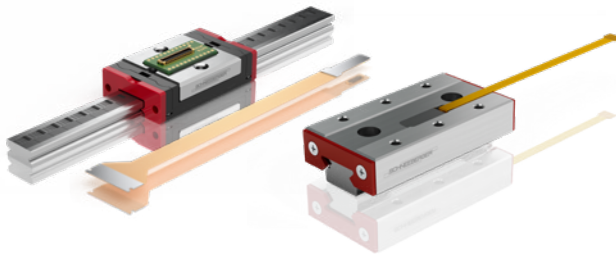
The robust, simple design of the SCHNEEBERGER cage control, consists of only a few components and meets all requirements in terms of productivity and cost-effectiveness. It reliably prevents cage creep during frequent strokes, enabling smooth operation and long service life.

### RN und RNG guideways with maximum rigidity and precision



SCHNEEBERGER is known for its highest level of precision and develops and distributes products that are perfectly suited for this industrial segment. These are flexible in design, especially in situations where high load capacities and precise positioning are required in the tightest of spaces.

### Measuring System



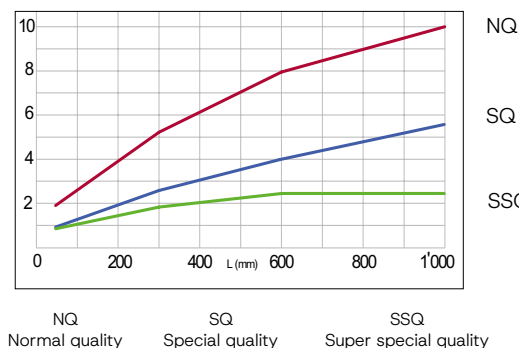
The absolute measuring systems SAM and the incremental measuring system Scale combine "guiding" and "measuring" in a highly integrated design.

### Coatings



For applications with increased requirements for corrosion protection, wear resistance, or in cases of insufficient lubrication, SCHNEEBERGER offers special coatings with increased surface hardness – ensuring maximum reliability and extended service life, even under demanding operating conditions.

### Quality classes (NQ, SQ and SSQ)



NQ

SQ

SSQ

The running and positioning accuracy of an application depends primarily on the geometric precision of the guideway, its exact alignment, and the rigidity of the surrounding structure. To optimally meet a wide range of requirements, SCHNEEBERGER offers linear guideways in three graduated quality classes. This ensures that the appropriate precision is available for every application – from economical standard to high-precision solutions.

### Optimized for cleanroom applications



Optimized for cleanroom applications, SCHNEEBERGER offers an optimized product for demanding applications with special lubricants for cleanroom or vacuum use, specialized cleaning and packaging processes, corrosion-resistant materials, and complete traceability of the products.

## Applications in photonics, which require linear guides

### Manufacturing

SCHNEEBERGER products enable fast, high-precision and robust positioning of workpieces or laser optics, and are ideally designed for demanding applications such as laser drilling, cutting, turning, milling, or engraving.



### Optical Metrology and Inspection

For precise optical measurements, high accuracy, stable and low-vibration motion, stiff and reliable systems are essential. They enable reliable alignment and ensure consistent, reproducible results in sensitive photonic processes.



### Biomedical and Life Sciences

In medical photonics, precise and reliable guideways ensure stable and safe motion sequences. Whether in diagnostics, surgery, laser therapy, or measurement technology, they ensure reliable results in sensitive applications.



### Laser and IR technologies

Positioning lasers and infrared systems are used for precise observation, measuring, and focusing tasks. They can be flexibly integrated into a wide range of devices and applications.





Essentials for the Best!

**SCHNEEBERGER**

## SETTING THE GOLD STANDARD IN PRECISION TECHNOLOGY

A Century of Expertise

Linear Bearings Pioneers

Family-Owned and Operated



### Global Presence

15 SCHNEEBERGER subsidiaries worldwide

14 global production sites

100'000 Sqm production area worldwide

Corporate HQ in Roggwil, Switzerland

> 1'400 Employees worldwide

> 4'000 Customers trust in SCHNEEBERGER

100 Patents

# Worldwide Group



ESSENTIALS FOR THE BEST

## PROSPECTUSES

COMPANY BROCHURE  
CUSTOMIZED BEARINGS  
LINEAR BEARINGS AND RECIRCULATING UNITS  
MINERAL CASTING SCHNEEBERGER  
MINISLIDE MSQSCALE  
BALL SCREWS

MINI-X MINIRAIL / MINISCALE PLUS / MINISLIDE  
MONORAIL AND AMS PROFILED LINEAR GUIDEWAYS  
WITH INTEGRATED MEASURING SYSTEM  
POSITIONING SYSTEMS  
GEAR RACKS

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High quality

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A member of  
SCHNEEBERGER linear technology