

SCHNEEBERGER press release: Linear bearings – Standard or customised

The right solution for every need

SCHNEEBERGER linear bearings always stand for high quality. The Swiss company covers numerous fields of application thanks to its wide range of standard bearings. And if you need something more specific, SCHNEEBERGER can also provide customised solutions.

The right linear bearing always depends on the respective application. Accordingly, the range of products offered by innovation leader SCHNEEBERGER is extremely varied. In terms of ideal all-round products with well-balanced characteristics, the company produces type R and RD roller guideways. At the same time, the use of recirculating units allows for unlimited stroke. If the user only requires limited stroke, type RN and RNG cage-guided roller variants provide the best solution, as they offer the best results in terms of load-bearing capacity and rigidity.

If the application requires a particularly high level of smooth running (with load-bearing capacity and rigidity playing subordinate roles), type R and RN ball-bearing mounted guideways yield excellent results. To meet conflicting requirements – extremely high load-bearing capacity, rigidity and precision, yet somewhat reduced smooth running – SCHNEEBERGER recommends its type N/O and M/V needle bearing-mounted guideways with cage assist. In doing so, the cage reliably prevents pulsations of any kind, thereby optimising running behaviour.

All of these linear bearings are available in various sizes and performance categories. If a potential customer is still unable to find what they need in the standard catalogue, the company also provides customised products which satiate the customer's every desire. Depending on the hardening process used, guideways with dimensions up to 60 x 320 mm and a length (inductively hardened) of 6 m or dimensions up to 50 x 150 mm and a length (fully hardened) of 3 m can be produced. This means that in principle, levels of accuracy of 2 µm per metre and surface quality standards of up to $R_a = 0.3 \mu\text{m}$ in peripheral grinding are feasible.



B01: SCHNEEBERGER covers numerous fields of application thanks to its wide range of standard bearings. Customised solutions are also available to meet special requirements.

SCHNEEBERGER Group

SCHNEEBERGER® operates worldwide as an established OEM supplier in a wide variety of sectors – from the solar, semiconductor and electrical industries to the machine tool and medical devices sectors, and beyond. The product and manufacturing program includes linear bearings and profiled linear guideways as well as measuring systems, gear racks, slides, positioning systems and mineral casting. A.MANNESMANN, headquartered in Remscheid, Germany, has been part of the SCHNEEBERGER Group since October 2017. werotec ag, headquartered in Reigoldswil, Switzerland, has also been part of the SCHNEEBERGER Group since early 2018. werotec ag's core competence lies in precision grinding technology and in the complete production of anti-friction bearing rollers.

Order SCHNEEBERGER product images via e-mail or give us a call.