

## ITALIAN AND ENGLISH TRANSLATIONS

### Press release SCHNEEBERGER “SBS ball screws”

#### **Ball screws for demanding applications**

*The new Schneberger ball screws (SBS) are impressive due to their precision and efficiency, which the ground and hardened ball contact surfaces are primarily responsible for. The SBS are therefore equally suitable for use at high and low speeds as well as oscillating short stroke movements. This makes them particularly attractive for demanding applications in machine tools as well as measuring and testing technology.*

Schneberger is expanding its extensive linear technology portfolio with the new SBS ball screws. Always in focus: optimum precision and economic feasibility. In order to ensure these characteristics over the long term, the ball bearing raceways, bearing seats and contact surfaces of the ball screws are precision ground. The spindle outer diameter that is ground with the bearing seats in the same clamping process combines a two-fold benefit. Sven Vitt, the SBS Project Manager at Schneberger, explains: "On the one hand, the ball screw can be aligned to the spindle outer diameter, and on the other hand, the efficiency of the wiper systems is significantly increased." Vitt ascribes equal importance to the induction-hardened spindle and the through-hardened nut.

Overall, the precise and hard ball contact surfaces enable optimum force transmission with extremely high positioning and repeat accuracy. In addition, Schneberger ball screws stand out due to their quiet, torque-constant running behavior. Equally important are the accompanying low heat generation, minimal wear and long service life.

All these characteristics set new standards for use in demanding sectors, including the machine tool industry, measurement and testing technology, drive and process technology as well as robotics and automation. Depending on requirements, the SBS is available with spindle diameters of 32 mm, 40 mm, 50 mm and 63 mm. The manufacturer specifies a maximum thread length of 2,000 mm for all sizes. The implementable increases in speed are 1.5 g and the maximum speeds 96 m/min. The accuracy class according to ISO – type P is IT3. Schneberger application technicians and engineers are always ready to assist with the evaluation and design of customer projects.



B01: With the new SBS ball screws, Schneeberger enables optimum force transmission with extremely high positioning and repeat accuracy. They allow high and low axle speeds in a wide range of applications.

#### The SCHNEEBERGER GROUP

SCHNEEBERGER® serves original equipment manufacturers operating (OEM) in various industries worldwide – from machine tool, solar technology and semiconductor technology to electrical engineering and medical engineering and others. Linear bearings, profiled linear guideways, measuring systems, gear racks, slides, positioning systems and mineral casting are all part of SCHNEEBERGER's product and manufacturing range. A.MANNESMANN has been part of the SCHNEEBERGER Group since October 2017. A.MANNESMANN is a leading supplier for the production of ballscrew drives, telescopic actuators and drill spindles. A further expansion of the SCHNEEBERGER Group, an additional site was founded in Poland. The new company SCHNEEBERGER Components Poland (SPO) officially started on November 19, 2020 and has already commenced operations, producing precision parts for the entire Group. The core competence lies in the production of rolling bearing rollers. Also as part of its strategic development, the Business Unit Systems has established the company "SCHNEEBERGER Precision Motion Systems (Shenzhen)". With the establishment of the new technology center for systems in Shenzhen with development, production, sales and service, SCHNEEBERGER will be closer to its Asian customers and thus be able to serve them even better with high-precision single and multi-axis systems.

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