

Press release SCHNEEBERGER Blue Competence

Multiple contributions to reducing energy consumption

Sustainability is a top priority at SCHNEEBERGER - in manufacturing as well as in the end products. In both technical and economic aspects, SCHNEEBERGER consistently manages to impress its customers. The expressed aim of all SCHNEEBERGER companies is to treat the environment and the economy as one unit, not as two opposing interests.

Sustainability jointly depends on both energy conservation and the raw material cycles. Manufacturing processes such as mineral casting technology contribute to this aim. In Cheb, Czech Republic, the SCHNEEBERGER mineral casting technology is supporting "Blue Competence," the environmental initiative of the Association of German Machine Tool Manufacturers (VWD - Verband Deutscher Werkzeugmaschinenfabriken), in a truly exceptional manner. Mineral casting is a cold casting process that does not require additional heat energy in the manufacturing process. The required process heat is produced during the curing stage by an exothermic reaction of the bonding agents based on synthetic resins, to which the mineral components are added. Engine beds of mineral casting require significantly less energy in manufacturing and processing than alternative materials such as gray cast iron or steel. The result is a significant reduction in CO2 emissions. Mineral casting is completely recyclable, which further protects the environment. SCHNEEBERGER takes back used mineral casting parts from its customers and sends the material as construction waste to certified companies for recycling.

In addition, SCHNEEBERGER's linear systems help to reduce energy consumption. Linear roller guideways generate minimal friction loss. Using these frictionless guideways, customers can use smaller engines, which subsequently demand a lower consumption of drive energy. Rack and pinion gears from SCHNEEBERGER enable direct drives that release maximum energy for linear movement, in comparison to other types of drives such as ballscrew drives or hydraulic cylinders. This is accompanied by minimal energy loss from friction and heat.

SCHNEEBERGER's activist concern about environmental issues and sustainability in manufacturing technologies is also reflected in its product development. The AMS measuring system, for example, carries out highly precise measurements in the factory environment without using energy-intensive air purging equipment. Also, the lifetime costs of the machine tools is lower thanks to the reliability, low error rates, and reduced maintenance costs of the distance measuring system components. A positive side effect of this is the longer maintenance interval, which also increases the cost-effectiveness of the engines.

Finally, the material flows at SCHNEEBERGER are also always carefully reviewed. Input and output are monitored, measured, and analyzed. The goal is to continually decrease energy input while enabling a constant or increasing output of finished products over the medium and long-term. Economic and environmental considerations are not mutually opposed and experience shows that sustainability management can pay off both in daily business and in life cycle assessments.

BLUECOMPETENCE

Alliance Member

SCHNEEBERGER Group is an Alliance Member



Blue Competence the environmental initiative of the Association of German Machine Tool Manufacturers

SCHNEEBERGER boilerplate

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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