

## **DKT 2024 – TROESTER presents Sustainable Technology for the Rubber Industry**

For more than 20 years, the extrusion specialist TROESTER has been offering its customers an extremely economical and gentle solution for high-quality applications with its ROTOMEX gear extruders, where strained rubber compounds ensure product quality. Since the early 2000s, more than 150 ROTOMEX systems from the ZX75, ZX120 and ZX170 series have been supplied, which are used in the automotive, tire and pharmaceutical industry for the production of the finest technical rubber goods such as pharmaceutical products, sealing, profiles, hoses, curing bladders, windscreen wipers as well as compounds. The machines are rated for a compound throughput of 275 kg/h (ZX75), 760 kg/h (ZX120) and 1,400 kg/h (ZX170).

All ROTOMEX gear extruders are characterized by their simple and compact design, which means that they require an extremely small footprint and can be easily integrated into all production processes.

However, the most important advantage of a ROTOMEX is its extremely low energy input into the compound. Its energy consumption is up to 70% lower than that of a comparable single-screw extruder with a gear pump. This results in a specific energy requirement  $\leq 45$  Wh/kg.

In further comparison, a rubber compound can be plasticized with the ROTOMEX at a considerably lower temperature rise without influencing the vulcanization kinetics, which ultimately ensures extremely gentle material treatment. In recent years, the straining of rubber compounds with the ROTOMEX has shown great success in extending the service life of rubber products. In several applications, the life cycles of curing bladders have been increased by up to 300%!

Of course, the ROTOMEX gear extruders can be seamlessly integrated into production processes, e.g. they can be placed upstream of an extruder or an injection molding machine and then feed the downstream equipment as required via an integrated product control loop.

Visit TROESTER at the DKT in Nürnberg/Germany and discuss with our experts which ROTOMEX solutions are suitable for your production.

**DKT 2024, Nürnberg/Germany (01.- 04.07.2024): Booth 9-611, Hall 9**

Contact: Karsten Jung, Director Sales Rubber Machinery, TROESTER

