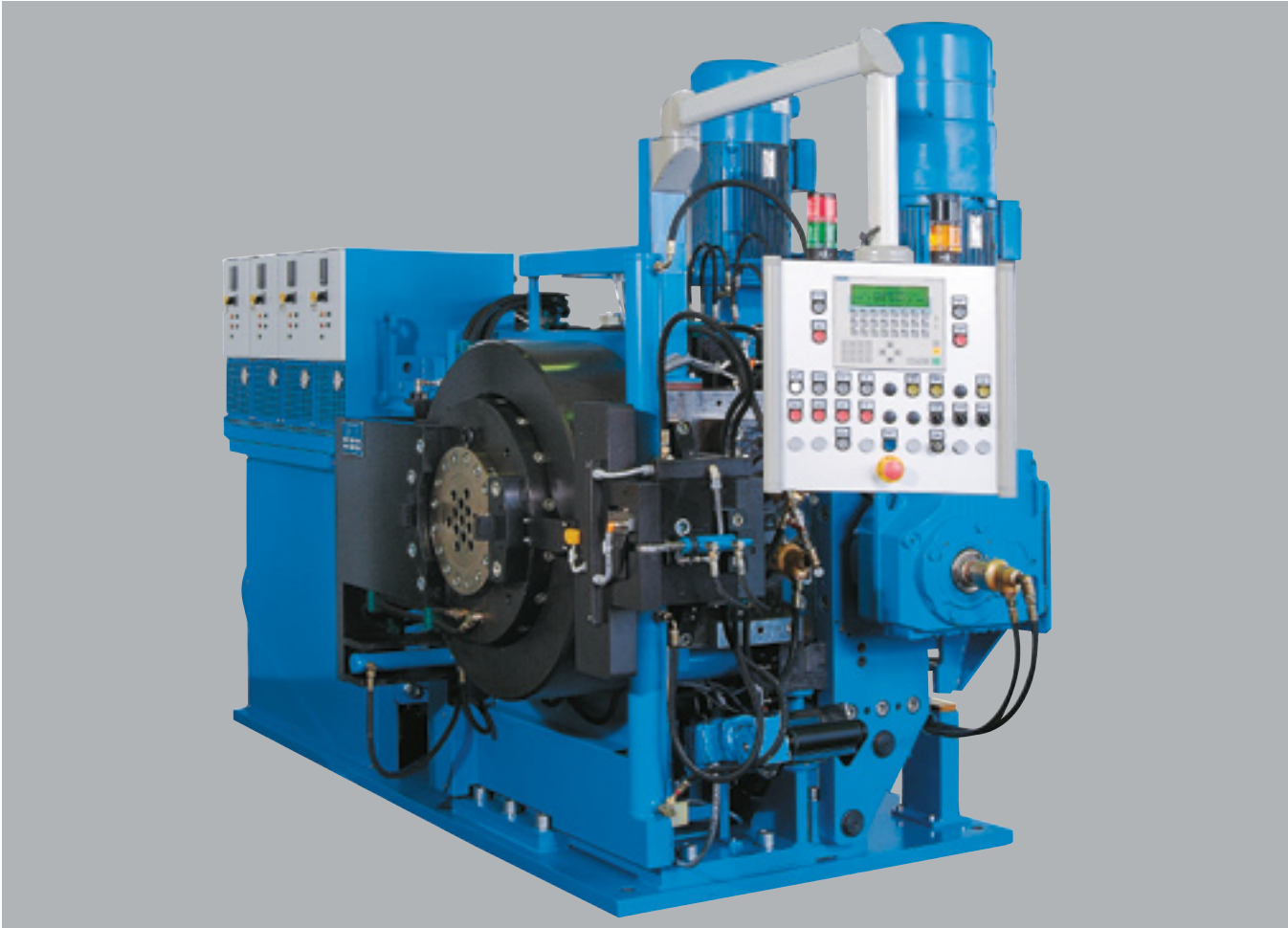




ELASTOMER

ROLL-EX® FINE MESH RUBBER STRAINING

It has been proven that the quality of rubber compounds can be improved significantly by fine mesh straining. The Davis-Standard and Uth roll-ex® gear extruder with TRF (two-roll feeder) technology provides an economical and efficient processing option. The roll-ex is engineered for straining applications of accelerated compounds because of its non-aggressive material treatment. Modular in design, this extruder can also be used in a single step together with the mixing process for a cost-effective solution.

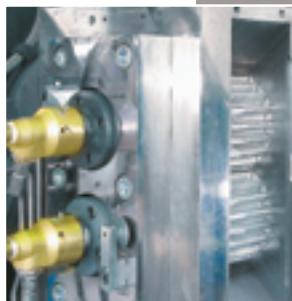


At A Glance

- Two-roll feeder (TRF) integrates processing part and strainer head into a compact two-stage unit, which is linked to the fine mesh straining of warm material.
- Low temperature increase when using fine mesh screens and high pressure up to 500 bar because of gear pump characteristic and TRF feeding combination.
- Excellent feeding of warm rubber strips from the two-roll mill by the independently driven and controlled TRF.
- Small footprint for simple integration into existing mixing lines without additional operators.



ROLL-EX® FINE MESH RUBBER STRAINING cont.



ROLL-EX® STRAINER ADVANTAGES

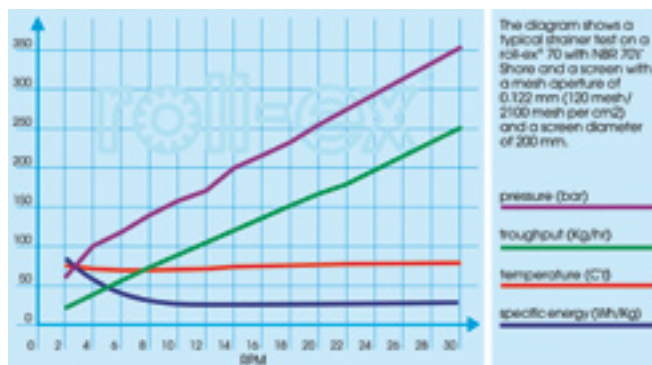
The roll-ex® TRF is the result of thoughtful and skilled engineering, which has resulted in a process-orientated design, a high level of functionality, economic advantages, and operational ease.

- Due to automatic control, the roll-ex can be controlled by mixing line operators so that no additional manpower is necessary.
- The hydraulically-operated strainer heads with a unique mechanical design enable fast screen changes, eliminating the need for automatic screen changers.
- Rotor bearings are lubricated by the compound. The small amount of compound flash, which emerges from the bush bearing, can be reused in the process so that material losses are avoided.
- The roll-ex strainer extruder reacts independently to variations such as width of feeding strip, roll nip opening, or roll mill speed.
- Straining rubber in a warm state provides energy and cost savings from the high viscosity and hardness characteristics achieved by straining compounds. It also eliminates further mastication steps.
- Only a very low level of scrap is generated during compound changes because of reduced volume of the strainer head.

TECHNICAL DATA OF STANDARD COMPOUNDS

Type	roll-ex® 120 TRF	roll-ex® 150 TRF	roll-ex® 300 TRF	roll-ex® 600 TRF
Max Output kg/h (cold/warm fed)	900	1,500	3,500	6,000
Max Rotor r.p.m. 1/min.	30	30	25	25
Rotor Drive Power	30 kW	75 kW	132 kW	200 kW
TRF Drive Power	2 x 5.5 kW	2 x 15 kW	2 x 22 kW	3 x 30 kW
Screen Diameter	300mm	370mm	520mm	520mm
Dimension (L/W/H) cm	130/280/210	170/400/220	187/436/256	246/362/266
Weight	3,500 kg	8,000 kg	13,500 kg	21,000 kg

All figures are non-binding standard values.
Subject to technical modifications. Special models upon request.



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