



# ELASTOMER

## ROLL-EX® EXTRUSION SYSTEM

The roll-ex® extrusion system from Uth GmbH is engineered for high-volume fine mesh rubber straining and for processes requiring high output stability. Modular in design and built with a smaller footprint, this system is widely used for mill room mixing or within a mixing line. The roll-ex® is capable of reducing scrap and producing higher quality rubber with minimal to zero defects. Models are available for processing .45 to 6 metric tons (990 to 13,000 pounds) per hour.



### *At A Glance*

- Compact design and efficient operation. Up to 70 percent energy savings.
- Stable temperature levels under high pressure.
- Improved quality for specialty applications.
- Simplified maintenance and improved material changeover cycle times.
- High degree of amortization.



# ROLL-EX<sup>®</sup> EXTRUSION SYSTEM cont.

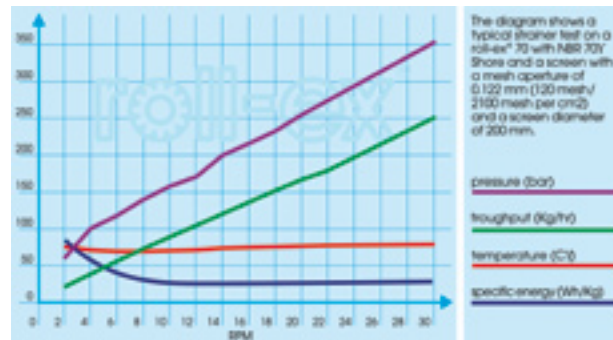


## SYSTEM ADVANTAGES

Based on the gear pump principle, the roll-ex<sup>®</sup> system generates extrusion pressure by two interlocking rotors. Material is gently processed due to a short retention time within the unit and a constant temperature is maintained at pressures up to 500 bar. Due to the volumetric conveying process, the pressure is uniform to provide precise extrudate output. The minimal volume of the system reduces the amount of waste when changing over compounds, and limits energy demand which is up to 70 percent less when compared to that of a single screw extruder.

## DESIGN BENEFITS

- Two-roll feeder (TRF) system feeds the compound into the gear extruder/strainer section without requiring a screw extruder as a feeder.
- Feeding approach eliminates extruder shear, reduces extrudate temperature, and allows for high output rates with highly accelerated compound formulations.
- Minimal material dwell time and a low temperature increase.
- A hydraulic system provides access to all major components.
- Straining rubber in a warm state provides energy and cost savings from the high viscosity and hardness characteristics achieved by straining compounds.



## MACHINE DESIGN PARAMETERS

Type	Max Output kg/h (cold/warm fed)	Max Rotor r.p.m. l/min.	Rotor Drive Power kW
<b>roll-ex<sup>®</sup> 45</b>	-/70	40	4
<b>roll-ex<sup>®</sup> 70</b>	240/350	35	7.5
<b>roll-ex<sup>®</sup> 120</b>	600/900	30	30
<b>roll-ex<sup>®</sup> 150</b>	1000/1500	30	75
<b>roll-ex<sup>®</sup> 300</b>	-/3500	25	132

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

DAVIS-STANDARD, LLC  
#1 Extrusion Drive  
Pawcatuck, CT 06379-2313 | UNITED STATES  
Tel: +860-599-1010 | Fax: +860-599-6258

D-S BROOKES LIMITED  
Unit 33 Hainge Road  
Tivdale, Oldbury, West Midlands B69 2NY | UNITED KINGDOM  
Tel: +44 121 522 0030 | Fax: +44 121 522 0031

DAVIS-STANDARD CHINA  
Room 1007, Jing An China Tower | 1701 Beijing (W) Road  
Shanghai 200042 | P.R. CHINA  
Tel: +86-21-5150 1908 | Fax: +86-21-5150 1906