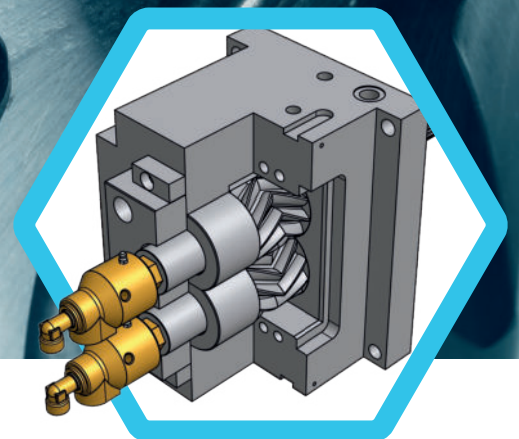




GEAR PUMP TECHNOLOGY FOR RUBBER EXTRUSION

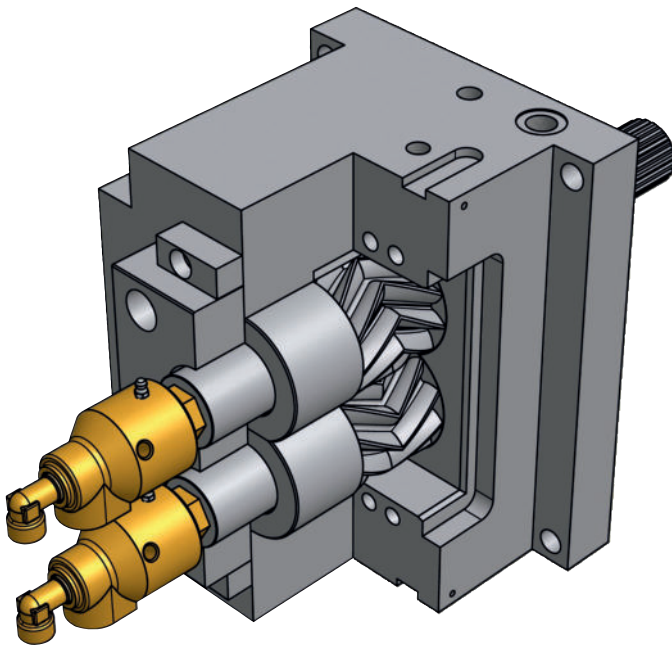


roll-ex[®]

www.UTH-northamerica.com

PRECISE AND HIGH PRESSURE EXTRUSION

WITH ROLL-EX® GEAR PUMP MODELS



ROLL-EX® GEAR PUMP TECHNOLOGY:

- patented roll-ex gear pump design
- modular set-up for individual solutions
- easy and quick to clean
- high pressure up to 11,600 (7250) psi
- volumetric transport, nearly independent of counter pressure
- temperature remains extensively constant
- low energy demand (up to 70 % energy savings)

TEMPERATURE / PRESSURE CHARACTERISTIC

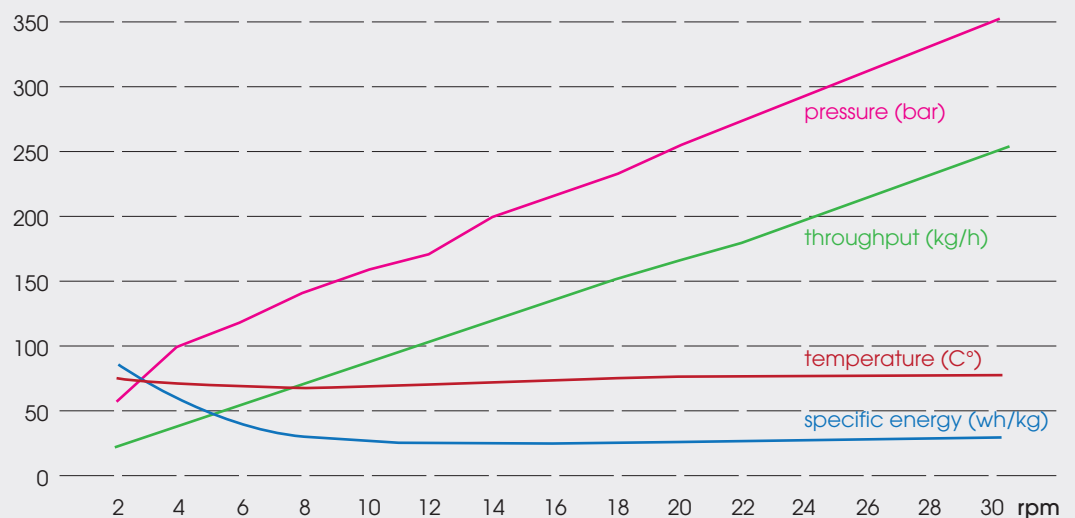


Diagram: Typical strainer test on a roll-ex® 70 with NBR 70® Shore, a screen with a mesh aperture of 0.122 mm (120 mesh / 2100 mesh per cm²) and a screen diameter of 200 mm

roll-ex®



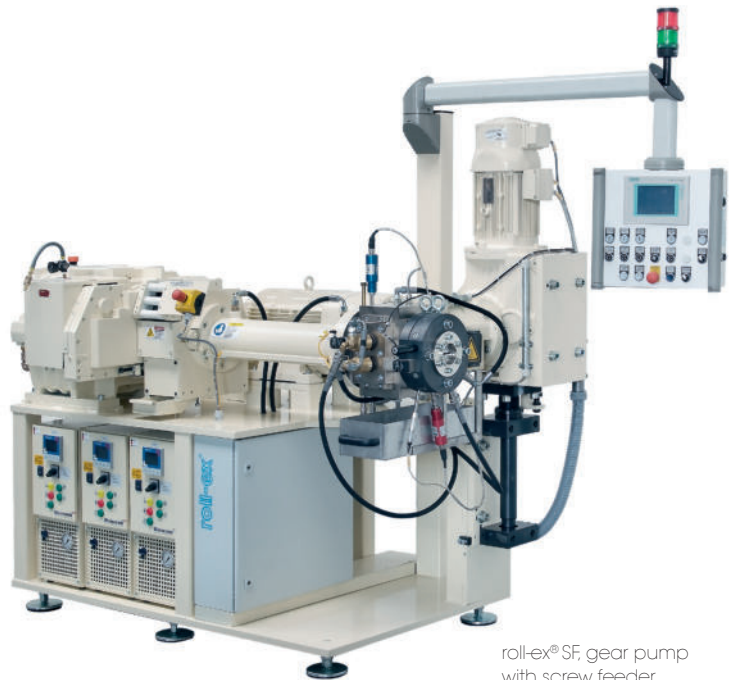
Double helical gears



Gear pump-screw feeder unit

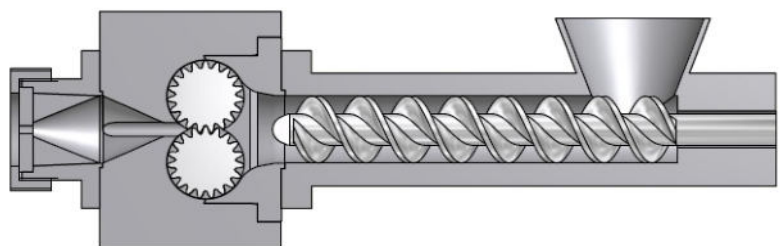
PROCESS TECHNOLOGICAL BENEFITS:

- lower cross section fluctuations of the extrudate
- quick dimension stability at start-up is reducing scrap
- decreased temperature strain of the compound since the screw extruder has to generate the feed pressure only
- very even output pressure and constant volume displacement realizing lower cross section fluctuations of the extruded profile
- due to minimal amount of space the roll-ex® system is simple to incorporate into existing production lines



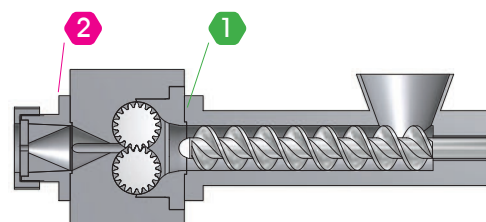
roll-ex® SF, gear pump with screw feeder

Model	(bar)	Throughput (lb/h)
67/36 SF	11600	175
72/50 SF	8700	440
72/70 SF	7250	880
120 SF	7250	2200

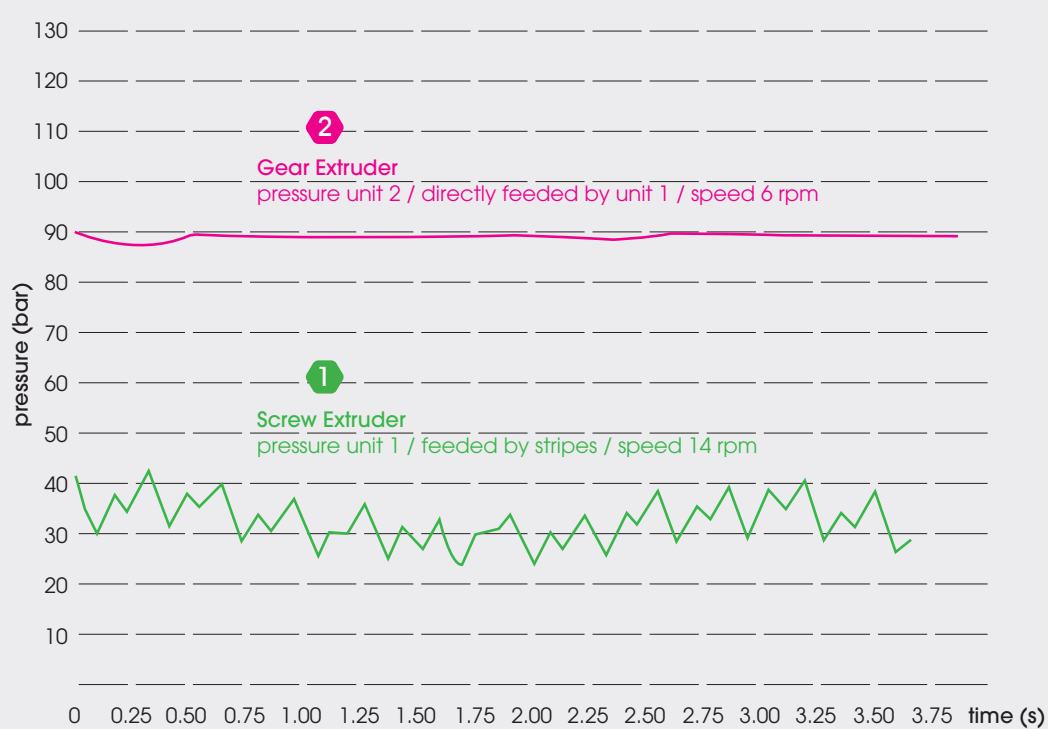




Gear pump with extrusion cross head and hydraulic quick clamping



**PRESSURE
DIAGRAM
SCREW EXTRUDER /
GEAR PUMP**



INDIVIDUAL SOLUTIONS / AUTOMATION SYSTEMS



Operator
panel

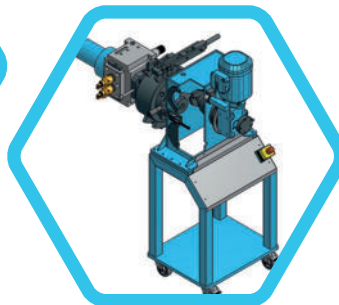


roll-ex® AO, Add-on
package for retrofitting
onto customers existing
screw extruder

High pressure
extrusion heads



Preformer
straining and
preforming



Individual lines for specific products



UTH North America Inc.
9499 Old Bailes Road, Suite 216
Fort Mill, SC 29707
USA

Phone +1 (803) 558-5402
Email sales@uth-northamerica.com
www.UTH-northamerica.com