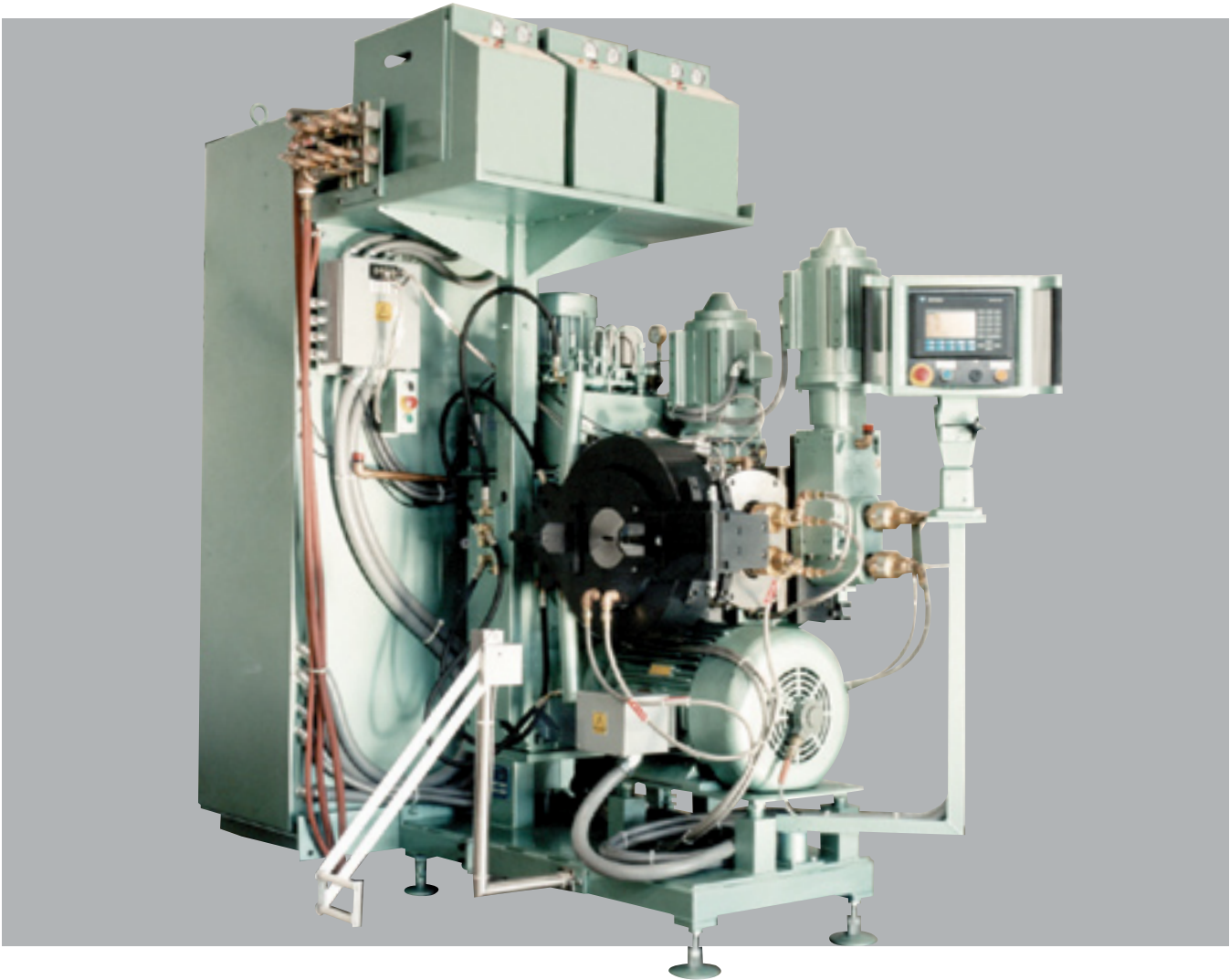


# ELASTOMER

## DAVIS-STANDARD UTH GEAR EXTRUDER

The Davis-Standard Uth gear extruder provides rubber processors with an effective solution for improving product quality and extrusion processes. This extruder can be used independently or in tandem with a single screw extruder to pre-screen rubber and remove impurities, eliminating the need for screening during the extrusion process.



### *At A Glance*

- Two-roll feeder for single or multiple strip feed operation
- 200mm, 300mm, and 370mm screen diameters
- Multiple temperature control zones
- Hydraulic clamp and adjustable hinged head
- Touch-screen PLC control
- Pre-piped and wired on a common base for easy installation



# DAVIS-STANDARD UTH GEAR EXTRUDER cont.



Swing-out two-roll feeder allows single-feed strip operation.



Hydraulic clamp & adjustable hinged head.

## MACHINE DESIGN PARAMETERS

Model	70	120	150
Nominal Output	500/1,000* lb/hr (227/454* kg/hr)	1,300/2,600* lb/hr (590/1180* kg/hr)	2,200/4,400* lb/hr (1000/2000* kg/hr)
Required Power (Gears)	10 HP	50 HP	70 HP
Required Power (Feed Rolls)	(2) x 3 HP	(2) x 5 HP	(2) x 7.5 HP
Maximum Speed	35 RPM	30 RPM	30 RPM
Maximum Feed Roll Speed	40 RPM	40 RPM	40 RPM
Approximate Weight	7,100 lbs. (3220 kgs.)	8,100 lbs. (3675 kgs.)	10,100 lbs. (4580 kgs.)
Length	60 in. (1525mm)	90 in. (2285mm)	103 in. (2615mm)
Width	36 in. (915mm)	55 in. (1400mm)	63 in. (1600mm)
Diameter	105 in. (2670mm)	105 in. (2670mm)	105 in. (2670mm)

\*In connection with existing screw-type extruder machines.

## GEAR EXTRUDER ADVANTAGES

### Versatile and Unique Features

- Can be used as a pre-feed device into a single screw extruder for higher quality rubber straining with minimal rise in extrudate temperature.
- Operational in a number of configurations due to the use of changeable inserts in the feed section and an easily removable feed roll assembly.
- Available with machined flange adapters if the application requires gear extruder use on the outlet end of a conventional screw extruder to improve output stability.
- Two-roll feeder for feeding single or multiple strips into the processing unit with an adjustable rate of feeding via a ratio set-point or by pressure regulation.
- Complete unit is pre-piped and wired on a common base, similar to other Davis-Standard extruders, for a quick and easy installation.

### Applications

- Straining
- Calendar feeding
- Pre-warming
- As an upgrade to existing lines to improve stability and quality

### Quality Components and Engineering

- Hydraulic head clamp, complete with base-mounted hydraulic power unit
- Multiple temperature control zones (feed, gears/body, head)
- PLC control
- Touch screen operator control station
- Removable control panel with umbilical for remote mounting
- Direct coupled, two-roll feeder, hinged for ease of cleaning
- Various gear designs based on application
- Mounted on common pre-piped and wired base
- Breaker plate
- Dual-head capability
- Dancer trim control
- Metal detector
- Casters for machine mobility
- Strip feed detectors for loss of strip detection
- Flange adapters for attaching to outlet end of extruder
- High pressure pumping capability at low extrudate temperatures
- Energy saving, compact design
- Simplified maintenance and improved material change-over cycle times

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