



DAVIS STANDARD®

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Elastomer



Model 3000A Crosshead

Overview

The Model 3000A incorporates an automatic, servo-driven concentricity adjustment system. This new, proprietary system allows for adjustment of the core tube/tip assembly with simple, accurate joystick control. This enables the operator to easily minimize eccentricity, maximize concentricity, and reduce downtime during product changeovers. In addition, the servo drives enable monitoring and adjustments throughout the run to account for lot-to-lot variations, day/night variations, and gum space corrections. The compact design does not require a hydraulic pump system or hoses.

Additional features such as a tapered mandrel and highly-engineered flow paths ensure consistent flow through all speed ranges. The thrust-bearing supported core tube/pin assembly enables the user to modify wall thickness under pressure without interruption. Die-adjusting screws are located in removable inserts to protect the body from thread damage. A larger surface area in the water jacket improves heat transfer efficiency. Models are available to accommodate 2-inch (50mm), 3-inch (76mm), 4.5-inch (102mm) and 5.5-inch (140mm) diameter braids.

Model 3000A Crosshead

Features

- Tapered mandrel designed for stable concentricity
- Engineered flow path through head maintains equal flow across speed ranges
- Rigid die holder maintains concentricity adjustment when dies are changed
- Die-adjusting screws are in removable inserts to protect body from thread damage
- Thrust bearing allows easy pin adjustment to change wall thickness
- Larger surface area in water jacket for better heat transfer
- Manufactured from AISI 4140 heat treated steel with all inside surfaces coated with Armalloy for improved wear resistance, material flow, and clean-out
- Hydraulic mandrel removal with air-operated hydraulic pump and control valve
- Mandrel swings/slides out and is supported for safe and easy cleaning
- Standard models available to cover 2" (50mm), 3" (76mm), 4.5" (102mm) and 5.5" (140mm) diameter braid
- 2" and 3" models include pintle mount on a Davis-Standard hinge and scissor-arm support for mandrel removal
- 4.5" and 5.5" models include support cart with mandrel removal facilitated by linear rails on the cart

Benefits

Improved Workplace Safety

- Simplified startup – nothing to loosen or tighten to make adjustments
- Concentricity adjusted using joystick instead of manual wrenches
- Increased safety benefit from less manual operator interaction
- No stripping of adjusting bolts/inserts from over-tightening
- Lower maintenance and downtime costs

Ease of Use

- Less dependent on transfer of empirical knowledge for initial tooling setup and operation from operator to operator
- Less likely off-spec errors for "new" operators which yield more consistent on-spec results
- Simplified training due to simplified startup procedure
- Visual feedback for "off-spec" condition and instant correction
- Seamless integration with X-Ray gauge/controls – (X-Ray required)
- Design based on proven Model 2000 Crosshead design

