

## Target Adaptive Control for Tire Calenders Model 3-3214-01



### Product Brief

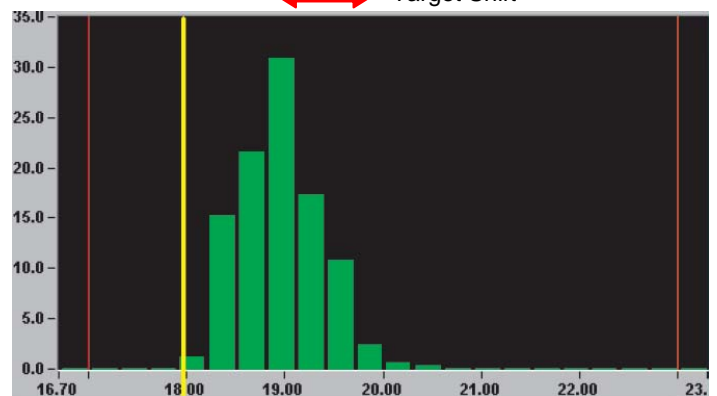
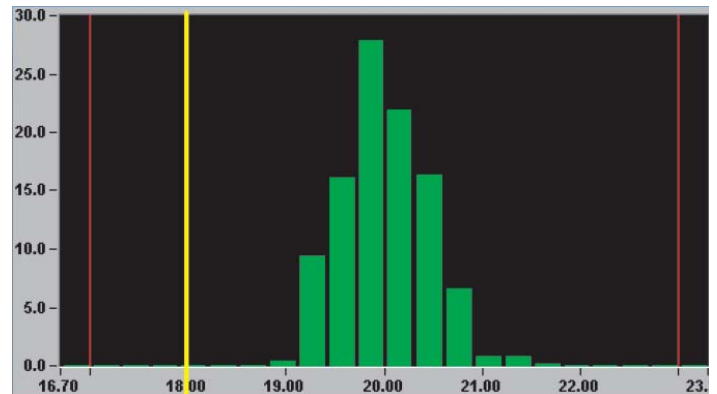
The Model 3-5810-01 Target Adaptive Control (TAD) automatically changes the thickness control target in plastic sheet or film extrusion to the most favorable economic level consistent with current quality variations and limits.

TAD significantly increases economic return by automatically adjusting the control target toward a recipe-specified gauge limit. When the sheet or film is sold by area, minimizing the thickness target reduces resin consumption. When the product is sold by weight, maximizing thickness may be used to increase the product price per unit area.

The extent of target shift depends on the size of current machine and cross-directional thickness variations. As the system makes adjustments to reduce MD and CD variations, the target continues to shift towards the desired limit. Conversely, if variability should increase, the target will be adjusted quickly and automatically to prevent the production of off-specification sheet.

### Features

- Flexible strategy permits automatic switching to maximize or minimize thickness on a product recipe basis.
- TAD algorithm continually monitors short term cross direction and machine direction variations, and makes setpoint adjustments at the end of every scan for fast response to changing process conditions.
- Automatically maintains roll quality within acceptable limits, thereby reducing scrap.
- Quality limits may be entered easily by the user through the MXProLine system displays.
- Color-coded Control Display indicates TAD control mode status for ease of use.
- Graphically-aided control tuning provides visibility of control tuning parameters and control actions, for full access to control optimization.



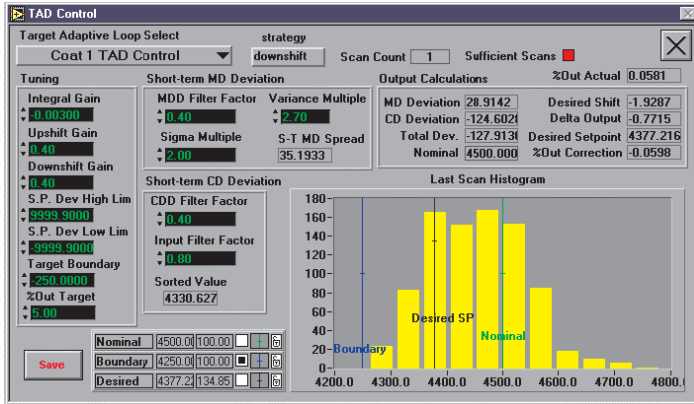
Example target shift with low boundary = 18 mills (0.457 mm)

### Description

Target Adaptive Control shifts the thickness or weight control setpoint to maintain the minimum measured value near a low boundary, or to maintain the maximum value near a high boundary.

The control provides a fast response to machine-direction and cross-direction process upsets as quickly as every scan. At a slower period (3-5 scans), it evaluates the overall variation performance to determine the appropriate target shift.

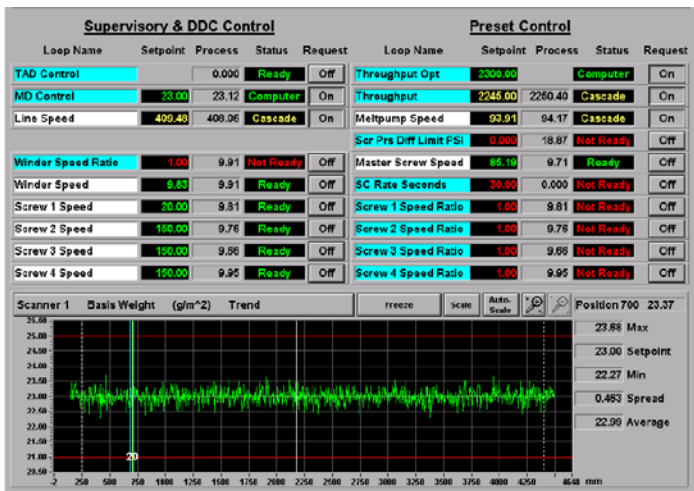
TAD strategy provides automatic process optimization to maximize your return on investment in plant equipment.



Engineering Configuration and Monitoring Screen



Calendar Quad Control Display



Example Control Display

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 April 2006  
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