

EST. 1926

SAUER
SYSTEM

HDRE

HOLD-DOWN ROLLER ELIMINATOR SHEET CONTROL UPGRADE

Challenging the Status Quo

Since the early days of downfold flexo folder-gluer, a series of hold-down rollers have been utilized as the primary means of controlling sheets as they travel through the folding section. Spring-loaded rollers apply downward pressure on the folding belt and sheets as they pass through the folding section.

Despite its shortcomings, the hold-down roller concept continues to be the primary choice of today's OEMs.

A 1984 VINTAGE FLEXO FOLDER-GLUER

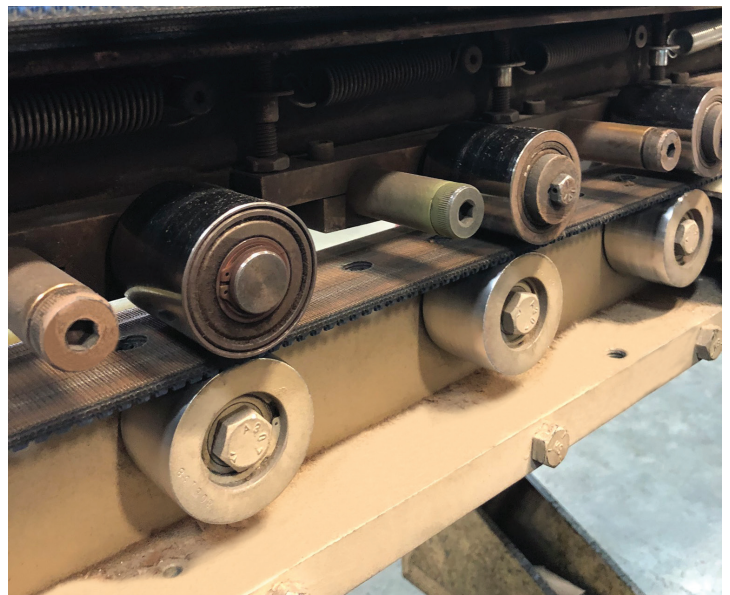


A 2019 FLEXO FOLDER-GLUER

Disadvantages of Hold-Down Rollers

Hold-down roller systems suffer from a plethora of issues, leaving room for improvement:

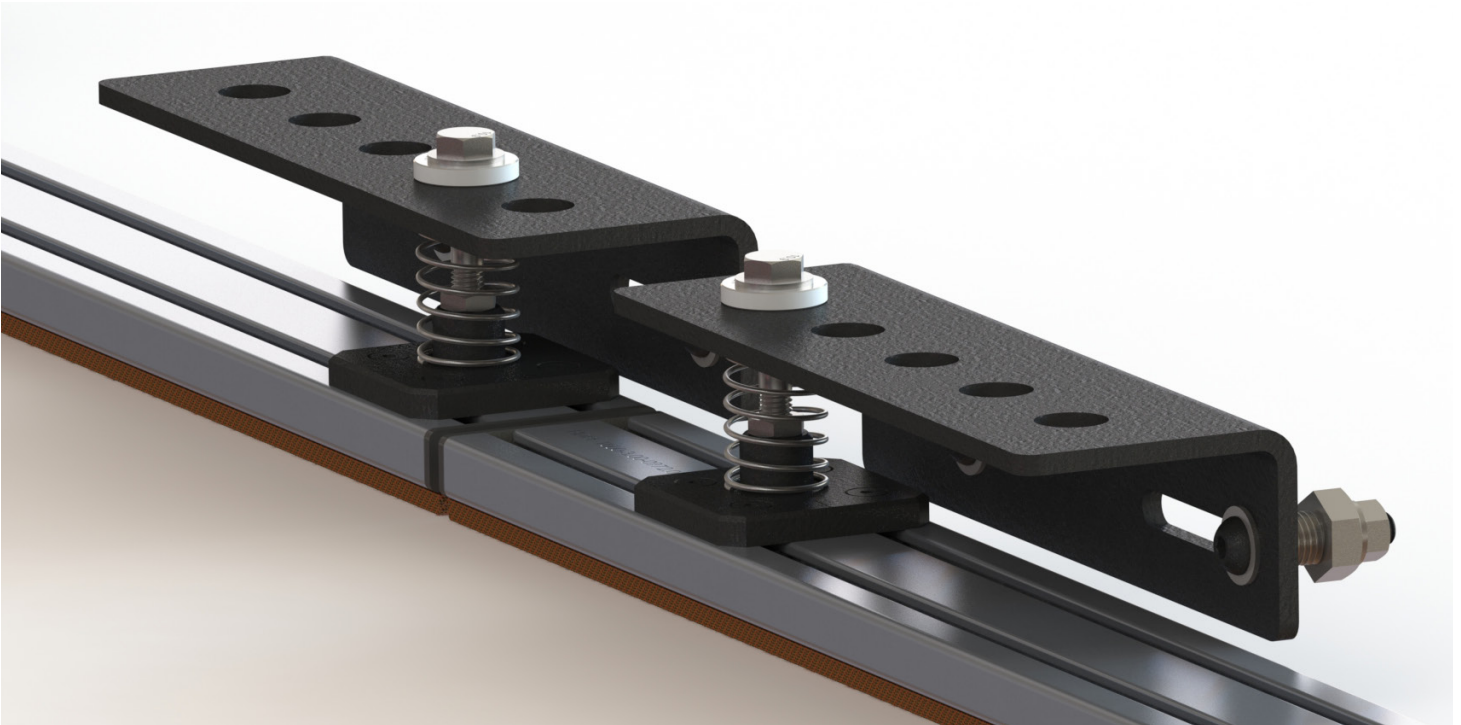
- Multiple nip points create multiple failure points
- Maintenance costs to replace and maintain rollers can be high
- Operator adjustments and intervention required
- Rollers tend to crush board due to too much downward pressure
- Uneven weight distribution from side to side
- Each roller assembly has several failure points, such as springs and bearings, and is designed to fail over time
- Rollers might be unavailable from defunct OEMs
- Time consuming to replace and adjust



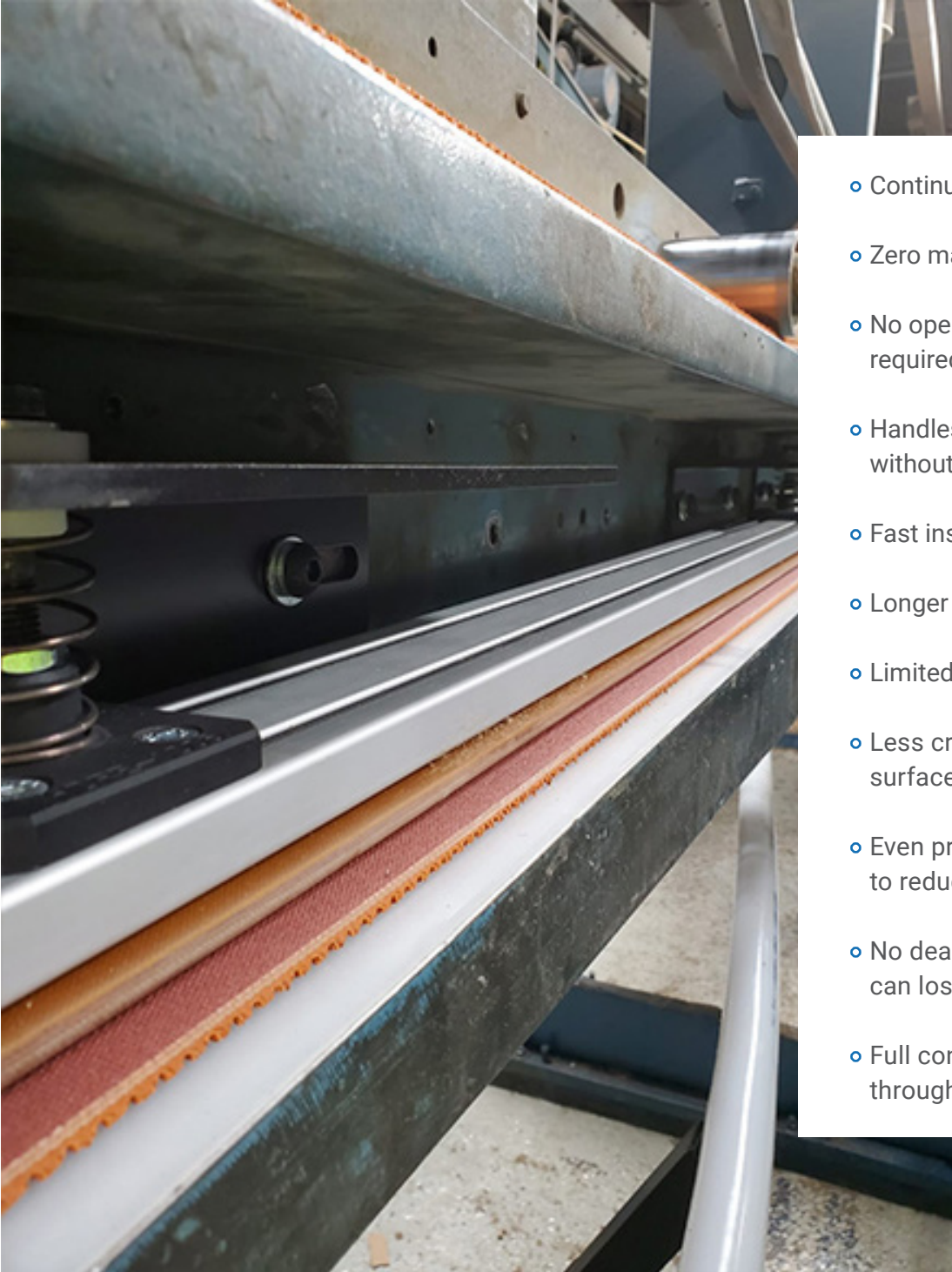
A Revolutionary New Concept

What if there was a solution that eliminated every hold-down roller in the folding section, instead replacing the rollers with a lightly spring-loaded, self-adjusting assembly with zero maintenance required. Imagine a continuous nip with almost no failure points. Such a solution exists...

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Advantages of the HDRE Upgrade



- Continuous nip
- Zero maintenance required
- No operator intervention required
- Handles all board grades without adjustment
- Fast installation
- Longer belt life
- Limited or no failure points
- Less crush due to larger surface area contacting the belt
- Even pressure from side to side to reduce skew
- No dead spots where sheets can lose contact with the belt
- Full control/contact of sheet through the folding section

The HDRE Concept has been Proven on the Trickiest Machines...



BEFORE



AFTER



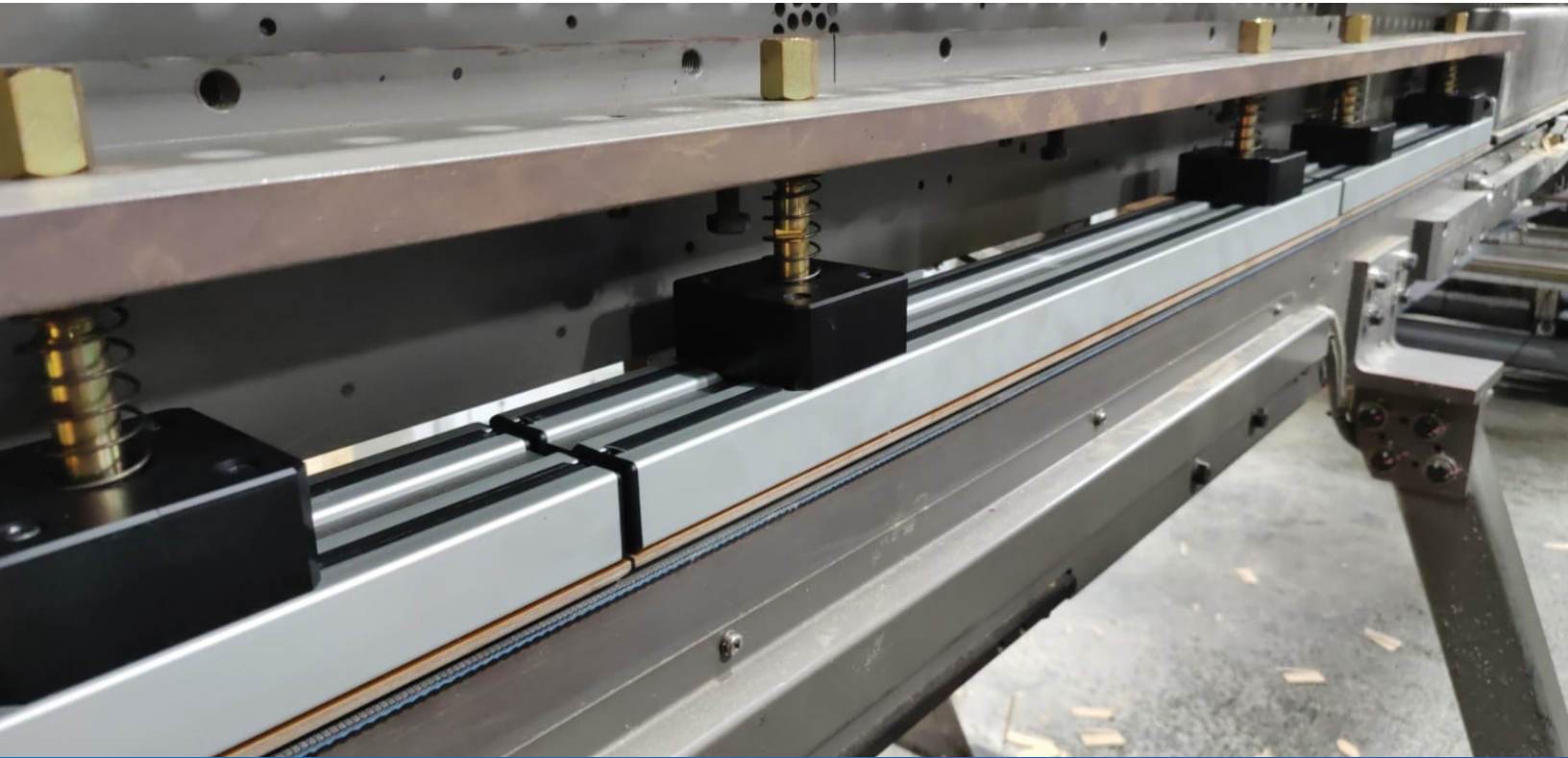


BEFORE

...And on the Newest Machines



AFTER



HDRE

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