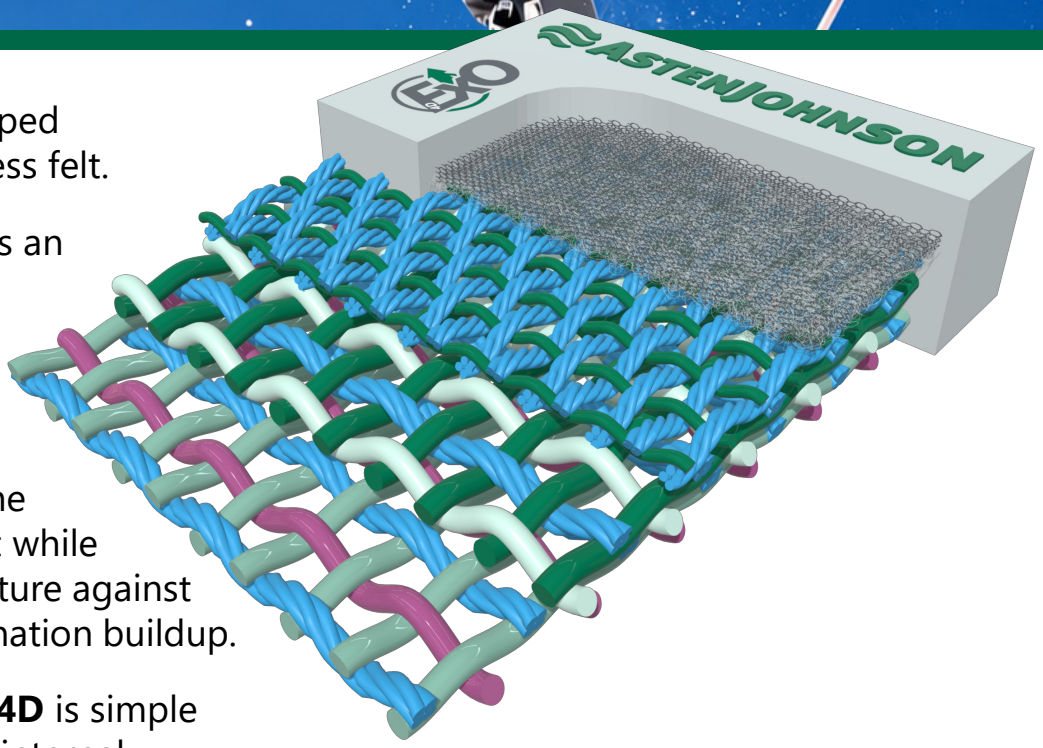




ExO 4D is a newly developed component within the press felt.

You can best describe it as an "exoskeleton", supporting the structure of the whole press felt.

This additional support element helps maintain the openness of the press felt while reinforcing the base structure against compaction and contamination buildup.

The concept behind **ExO 4D** is simple but powerful: protect the internal structure of the press fabric so it can maintain optimal performance for longer periods.

Benefits

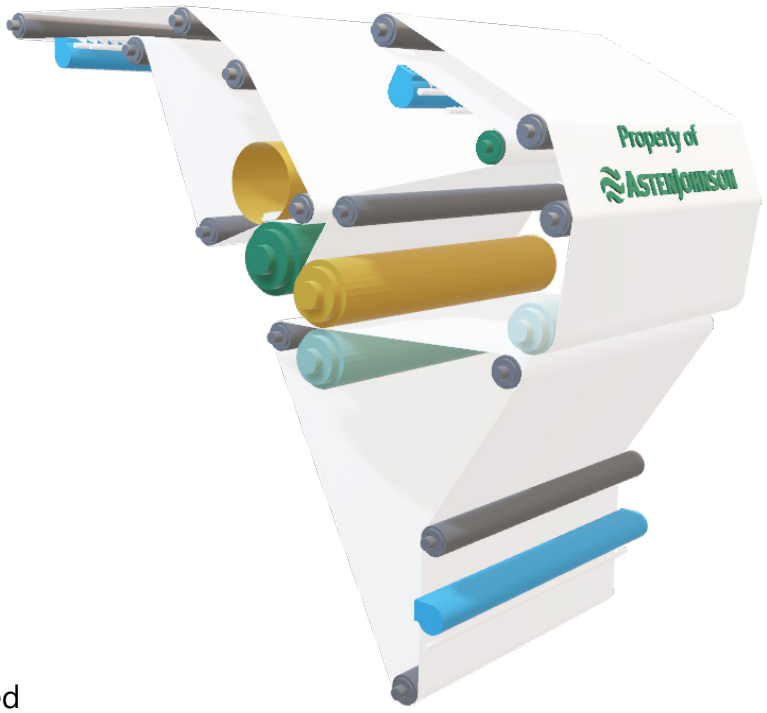
- Less break in time
- Longer life
- Stable performance

AstenJohnson

News/Light Fluting/Testliner

Stylus™ 2 ExO 4D

Machine Rebuilder:	Voith Region West
Nip Load:	1P: 75 kN/m 2P: 90 kN/m 3P: 1000 kN/m



GRADES	**News/Testliner/Light Fluting**
BASIS WEIGHTS	40gsm ~ 80gsm
SPEEDS	1500 mpm

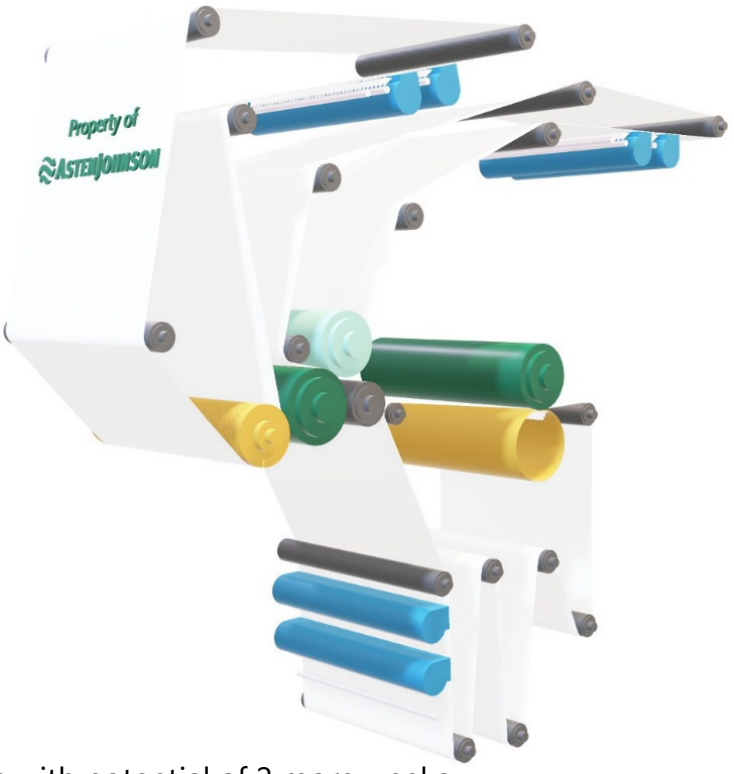
Results:

- First ever AstenJohnson Press Fabric Pick-up installed
- Break in during 1st day vs 4 days with standard
- Less steam consumption during whole life (1,1t/1tp vs 1,3t/1tp with standard felt)
- Dry content increase after 7 hours
- No sheet breaks all the run
- Very good reaction to all machine settings
- High nip dewatering

Testliner Fluting

FlexFlow 2 ExO 4D

Machine Builder:	Voith Region Central
Nip Load:	1P: 80 kN/m 2P: 120 kN/m 3P: 1000 kN/m
Known Problems:	Edge Issues Dewatering



GRADES	**Liner/Fluting**
BASIS WEIGHTS	90gsm ~ 180gsm
SPEEDS	1000 mpm

Results:

- AJ FlexFlow 2 3pcs standard, 1 ExO 4D
- High dewatering levels
- FlexFlow 2 ExO 4D – 14 days longer than competition with potential of 2 more weeks
- Customer very satisfied
- **Reorders**

Testliner Fluting

FlexFlow 3C ExO 4D

Machine Builder:	Valmet Region South
Nip Load:	1P: 80 kN/m 2P: 110 kN/m 3P: 1300 kN/m
Known Problems	Edge Issues Dewatering



GRADES	**Liner/Fluting**
BASIS WEIGHTS	90gsm ~ 180gsm
SPEEDS	1000 mpm

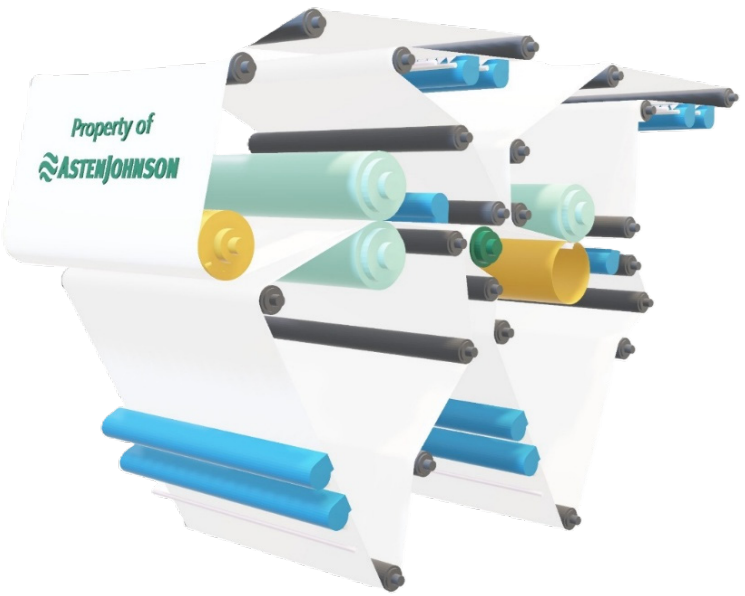
Results:

- First ever AJ felt installation PU FlexFlow 3C ExO 4D and bottom FlexFlow 2
- BIT within 8 hours
- Higher dewatering from start up
- Less breaks
- More stable machine run
- **3 sets reorders after 1 week of life**

Testliner Fluting

FlexFlow 2 ExO 4D

Machine Builder:	Valmet Region South
Nip Load:	1P: 120 kN/m 2P: 870 kN/m
Known Problems:	Sheet handling Ingoing nip spray 2nd press



GRADES	**Liner/Fluting**
BASIS WEIGHTS	90gsm ~ 240gsm
SPEEDS	1200 mpm

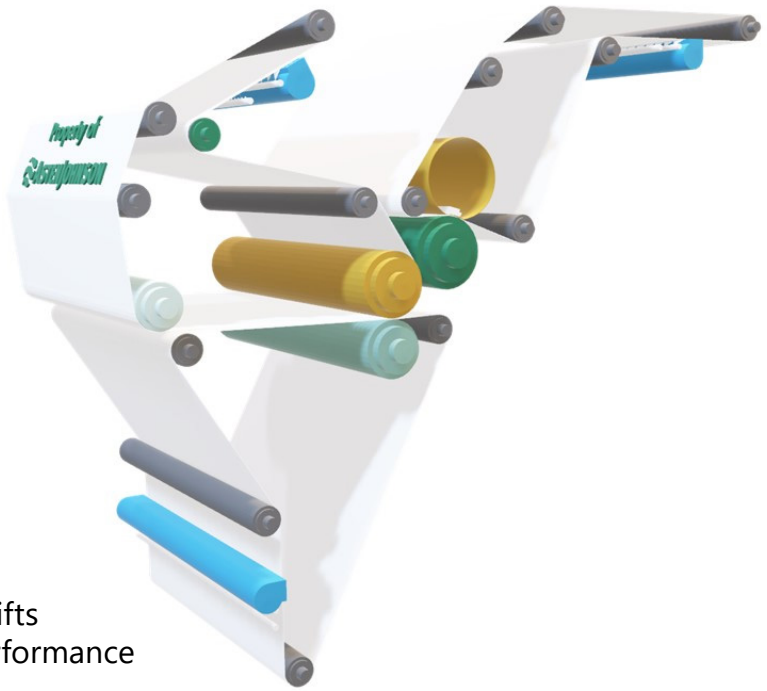
Results:

- AJ FlexFlow 3C ExO 4D in 2nd press top and bot
- BIT 1 day vs 6 days with competition
- Higher dewatering – no ingoing nip spray
- Lower draw after press = higher dry content
- **AJ standard supplier for 2nd press**

Lighter Corrugated Medium

FlexFlow 3C ExO 4D

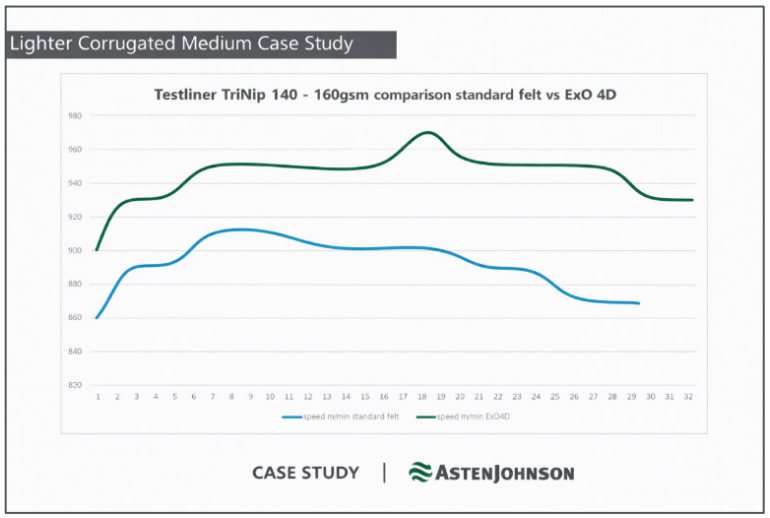
Press Layout:	Tri-Nip Region Asia
Nip Load:	1P: 80 kN/m 2P: 110 kN/m 3P: 980 kN/m
Standard Life:	25 days

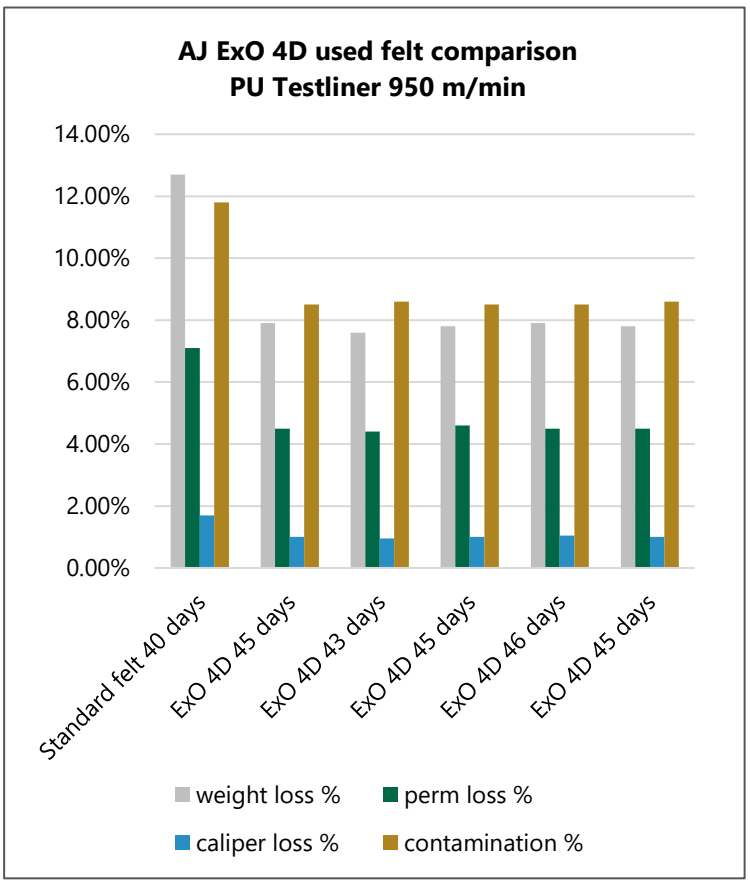


GRADES	**Corrugated Medium/Testliner**
BASIS WEIGHTS	90gsm ~ 180gsm
SPEEDS	800 - 950 m/min

Results:

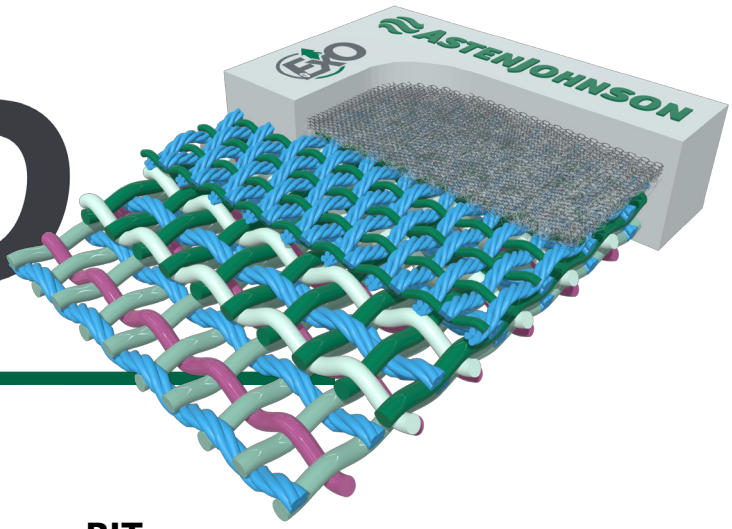
- BIT even shorter compare our standard design, 2 shifts
- Consistent dewatering for whole life, very stable performance
- Average speed 30 – 50m/min higher
- No edge issue through whole life
- Lifetime 7 days longer than competition
- Direct reorders also from other machines within this group





DEFYING LIMITS

with ***ExO 4D*** Technology



ExO4D – not only an enhancement to improve BIT:

ExO 4D is a specific support element, which helps maintain the openness of the press felt while reinforcing the base structure against compaction and contamination buildup.

Its structure enables a “self cleaning” effect.

Proven results in the market:
Less break in time (down to hours)
Less wear potential = up to 25% longer run
Less contamination = up to 25% less (contamination = cleaner run = less breaks)
Less rewetting = higher dry content
Less steam consumption = higher speeds
Less vibration potential = more stable machine run

More than 100 successful installations!

ASTENJOHNSON