Tissue Rewinder F(O)CUS[®] The state-of-the-art

Andrea Coluccini - Sales Manager PAP TM Rewinder Technology

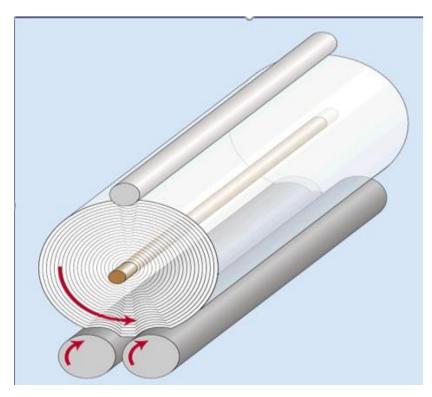
Bulk Control

None of the second seco

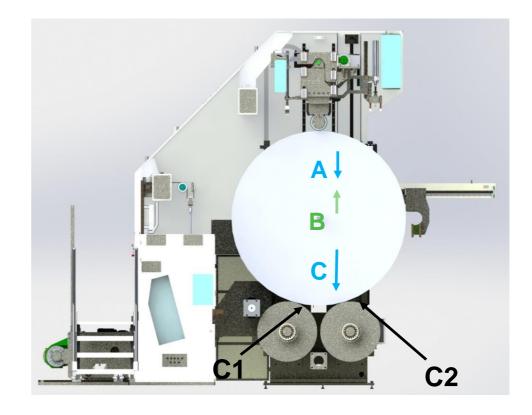
C

Forces during the winding process

A= Rider roll linear load B= Chucks relieving action C= Winding reel own weight C1=Nip on drum 1 C2=Nip on drum 2

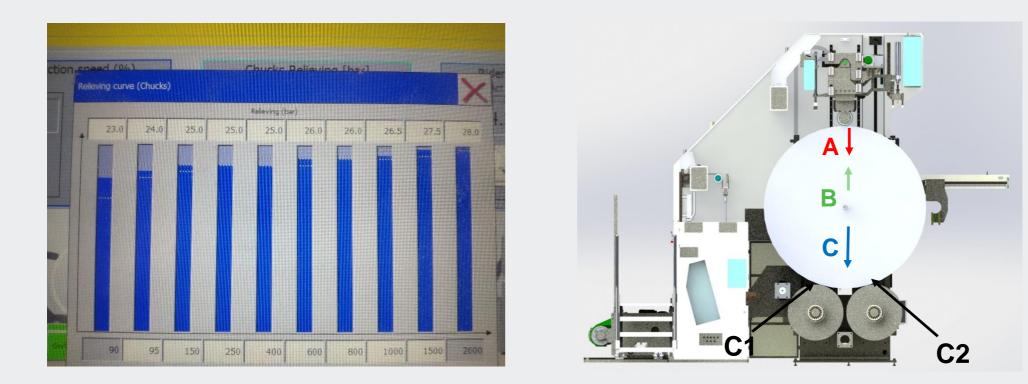


NIP= A+C-B



Valmet 🔷

Conventional hydraulic rewinder



In conventional Hydraulic Rewinders the rider roll linear load (A) and chucks relieving action (B) are actuated by hydraulic cylinders follow pre-established curves, based on the practical operators experience. There Is NO NIP CONTROL and, consequently, NO BULK CONTROL.



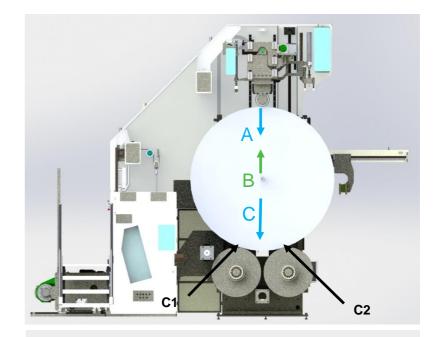
F(O)CUS[®] Concept

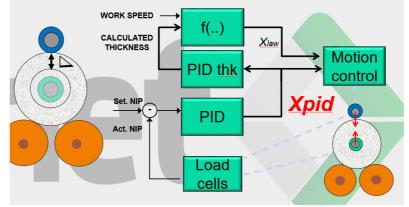
F(O)CUS[®] Concept (patented)

In ELECTROMECHANICAL rewinders, the NIP is closedloop controlled (ACC = Active Caliper Control) with feedback from load cells mounted on rider roll and chucks

- The operator sets the desired NIP value and the web thickness
- The weight of the winding reel is constantly calculated
- If the initial **web thickness** is not correct, the actual **NIP** will tend to increase or decrease dramatically.

In this case, the system automatically corrects the **web thickness** set point in order to re-establish the control balance.







F(O)CUS[®] Electromechanical technology

Chucks relieving and **rider roll** pressure are actuated by high precision ball circulation screws.

Advantages:

- Precision
- Clean operation (no hydraulic)
- Lower and easier maintenance



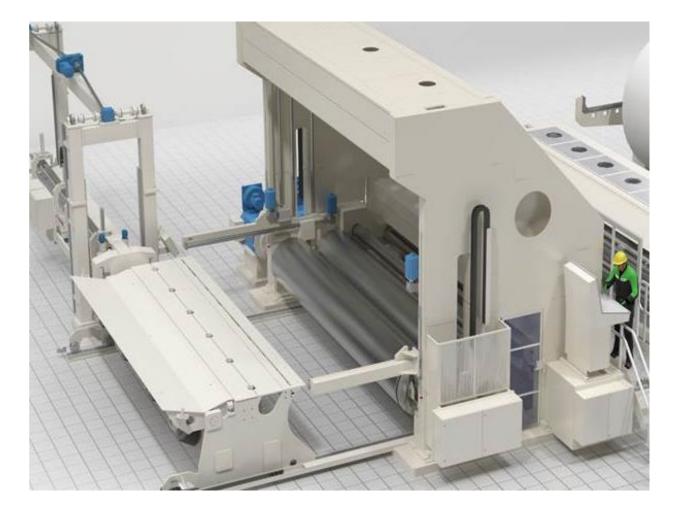




ENS Rewinders

In ENS models, the typical F(O)CUS[®] electromechanical relieving approach has been implemented with the complete automatic system "No-Stress":

- finished reels removal by electromechanical actuators and shuttle (smooth operation, no violent action on finished reels)
- shaft handling (with perfect alignment of finished reels set and shaft puller)
- automated downloading operations
- easy access to carrying drums for cleaning and maintenance





F(O)CUS[®] Reelite ENS







FOCUS

Reelite 15 T

8 8 8

Valmet 🔷

F(O)CUS[®] REELITE T – Scalability Concept

SCALABILITY = POSSIBILITY OF UPGRADING





The REELITE T could be provided in three different configurations:



- Initial Stage HSL:
- Improved capacity HS:
- Enhanced quality (bulk control) E:

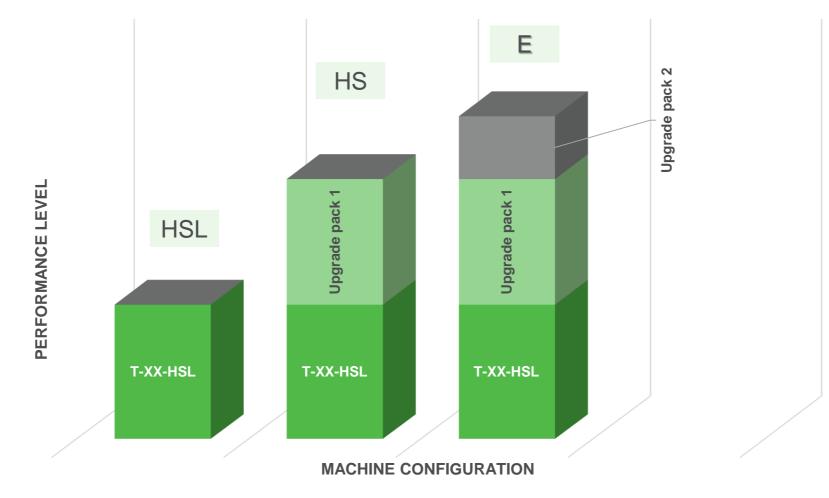
Hydraulic shaftless

- Hydraulic shafted
- Electromechanical



Reelite T Rewinder

SUMMARY OF REELITE «T» SCALABILITY



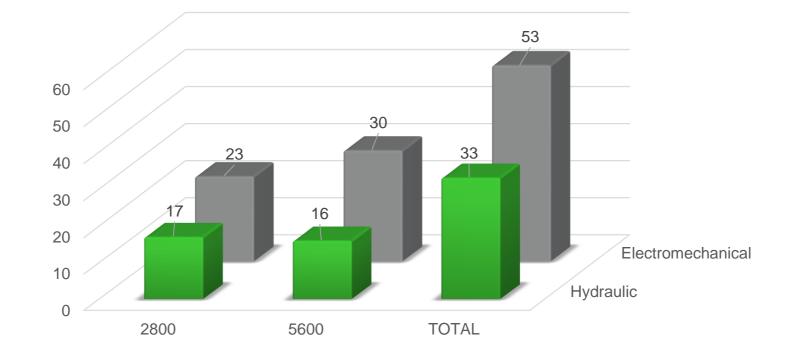


F(O)CUS® Reelite T





Valmet tissue rewinders sold in the last 10 years Splitting between Electromechanical and Hydraulic type



Hydraulic Electromechanical

