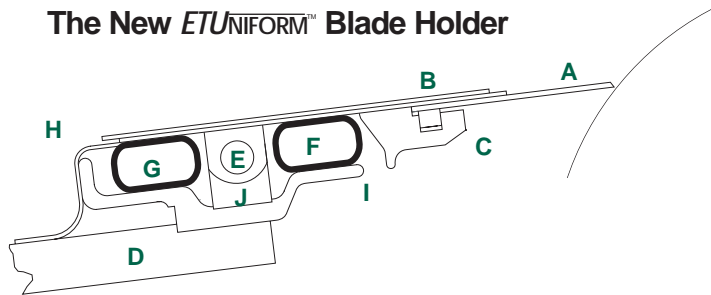


The New ETUNIFORM™ Blade Holder



- A - Doctor Blade
- B - Double Pressure Plate
- C - Blade Retainer Clip
- D - Doctor Back
- E - Pivot Rod
- F - Unload and Seal Tube
- G - Load Tube
- H - Optional Rear Seal
- I - Mounting Plate
- J - Pivot Block

ETUNIFORM blade holders provide many advantages over rigid holders and conventional conforming holders:

- Uniform blade-to-roll contact pressure
- Minimum possible loading pressure
- Efficient doctoring (good sheet peeling and roll cleaning action)
- Prolonged doctor blade life
- Prolonged roll life
- High quality doctoring at moderate maintenance and operating costs
- Available for virtually all machine positions
- Can be used with new doctors or usually can be retrofitted to upgrade existing doctors
- Tube loading design is usable with air or fluid for even loading

Operation of ETUNIFORM™ Holders

In operation the control panel channels compressed air to the load tube (G). This pressure is transmitted directly to the pressure plate assembly (B), which uniformly loads the blade (A). Pressure plate pivots on rod (E).

To unload the doctor and lift the blade, the control panel 4-way valve lever is rotated to feed air to the unload tube (F) while the load (G) is depressurized. This allows the blade to freely lift away from the roll surface for easy blade changes, without damaging roll surfaces.

Operation is cleaner when light pressure is used in the unload tube (F) permitting the tube to act as a seal along the under-surface of the pressure plate. Also there are no spaces between fingers for dirt to enter.

Holders can be operated on air or fluid. Fluid acts to dampen potential vibration from external sources.

Applications and Loading

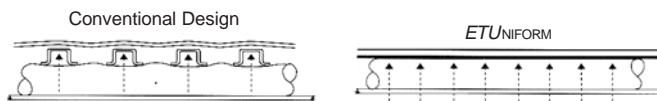
Rugged, stainless steel construction makes the Essco ETUNIFORM holder suitable for difficult locations including:

- Fourdrinier Rolls
- Press Rolls
- Dryers and Sweat Dryers
- MG Yankees (see the ETU-Oraclepe for creping Yankee applications)
- Calenders and Reel Drums

Oscillation is recommended as it will enhance performance of this - or any - doctor. Air cylinder loading is not usually required.

Blade Loading Pressure Profile

Uniform, Even Pressure



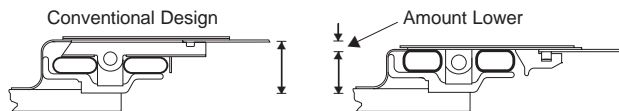
- No loading fingers
- Uniform cross-machine blade loading
- Pressure from tube is applied at all points - not just at finger locations

Easier Tube Changing



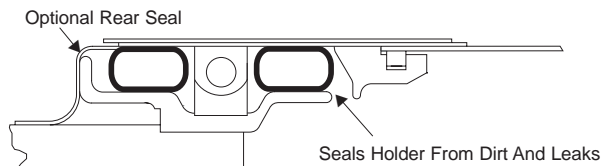
- On conventional designs, tubes permanently deform between fingers, making removal difficult
- On the new ETUNIFORM, tubes are contained between two smooth surfaces, allowing easier tube insertion and removal

Low Profile Design



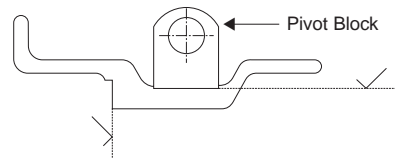
- Compact holder occupies less space on doctor
- Designed to withstand critical operating conditions
- Maintains uniform cross-machine blade pressure

Cleaner Operation



- Front tube, running with light pressure, acts as a seal to keep foreign material out of holder
- Fewer parts to retain dirt
- Runs cleaner and reduces leak-through
- Optional rear apron seal available

One-Piece Stainless Steel Mounting Plate



- Heavy duty solid 316 extruded stainless steel mounting plate
- Most secure mounting platform available with any conforming type holder
- Machined mounting surfaces (✓) assure the most accurate holder alignment
- Pivot blocks securely and precisely positioned in a machined alignment groove

Essco manufactures complete paper machine, board machine, and industrial doctor systems including Twinflex™ doctors and couch and press roll dewatering, twin bladed ETUNIFORM™ doctors; doctor blades of metal and plastic including Fiberline™ and AC™ advanced carbon composites; creping blades, coater blades, coiled and specialty blades; conforming, rigid, and creping blade holders; including ETUNIFORM™, ETU™, KF, RJG™, ETUORACREPE™, TCB™, and custom holders; oscillators including standard and CRS™ Essco-Lators™ and gear motors; The Edge™ electronic doctor alignment gauges; manual and pneumatic doctor loading systems; wet and dewatering elements; and provides doctor system rebuilding, doctor and blade surveys, consulting, and service.



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