



FastWash





The Company

EUROPE

Elettra S.r.l. - Established in 1987 Located North of Milan-Italy
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U.S.A.

Elettra NA - Located in Chicago (Dr. Elgin) since 2005
Sales and service contact for the American Continent
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WORLDWIDE PRESENCE THROUGH LOCAL DISTRIBUTORS

Elettra – PRODUCTS

CORE BUSINESS → R&D - DESIGN – PRODUCTION AND ASSEMBLY OF

FASTWASH - AUTOMATIC BLANKET WASHER SYSTEM for the PRINTING INDUSTRY

- ✓ Commercial Web (heat-set)
- ✓ Sheet Fed
- ✓ Continuous form - Narrow Web
- ✓ Books
- ✓ Newspapers
- ✓ Flexo

PORTFOLIO

- ✓ Impression cylinder washing systems
- ✓ Ink roller washer
- ✓ Idle roller cleaning system
- ✓ Web Conditioning Unit
- ✓ Chill Roller washing system
- ✓ Re-moistening systems
- ✓ Web cleaning system

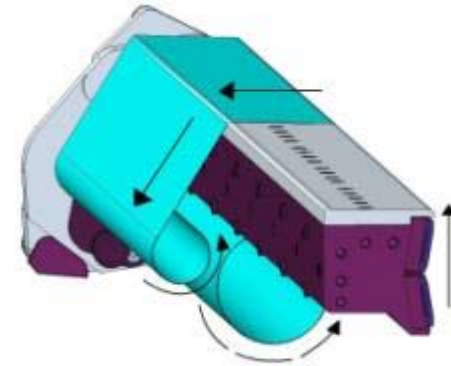
FastWash

- THE CLEANING PROCESS
- FASTWASH SYSTEM LAY-OUT
- FASTWASH – THE WASHER
- FASTWASH – CONNECTIONS
- CLOTH RE-WINDER
- CLEANING PROGRAMS
- PERFORMANCES
- FINAL CONSIDERATIONS

THE CLEANING PROCESS

ELETTRA'S TECHNOLOGY - DRY CLOTH

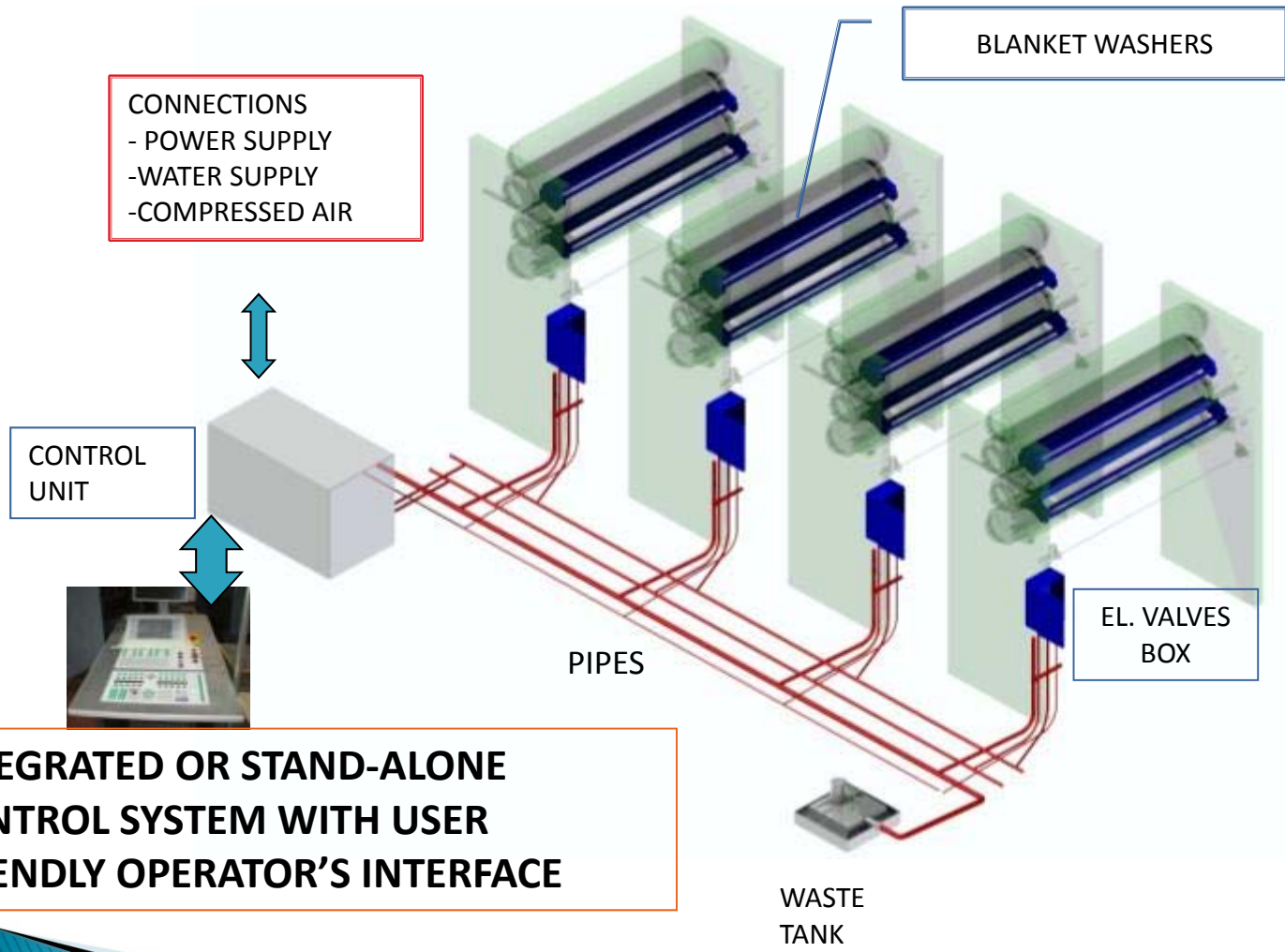
1. The cleaning solution (cleaning agent & water) is sprayed from the washer on the DRY CLOTH that is wrapped around the washer
1. The CLOTH is pressed against the blanket by the rubber pad
2. The Dirt CLOTH is rewounded after the washing cycle



The cleaning process performed by FASTWASH is the result of a combination of two different actions

- **Chemical action** → reaction of the cleaning solution in contact with the residuals of inks,
- dampening water and paper dust
- **Mechanical action** → **the cloth** is pushed by the rubber pad against the blankets.

FASTWASH SYSTEM LAY-OUT

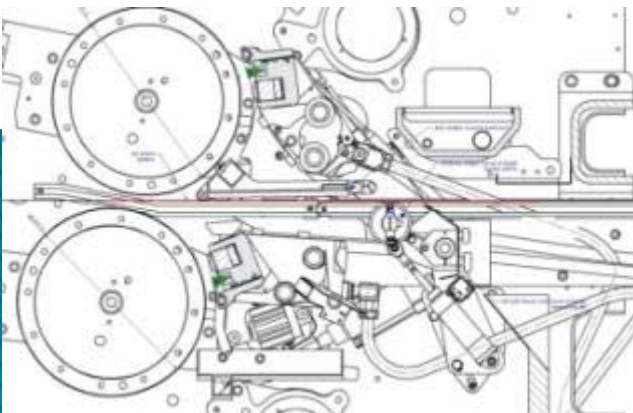
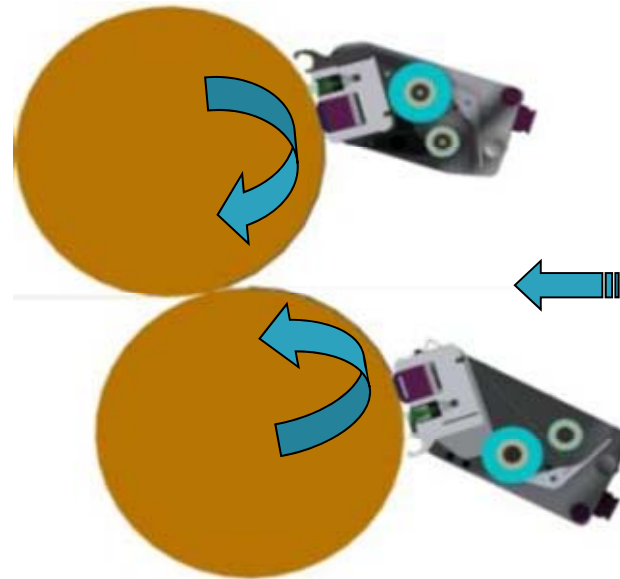


INTEGRATED OR STAND-ALONE CONTROL SYSTEM WITH USER FRIENDLY OPERATOR'S INTERFACE

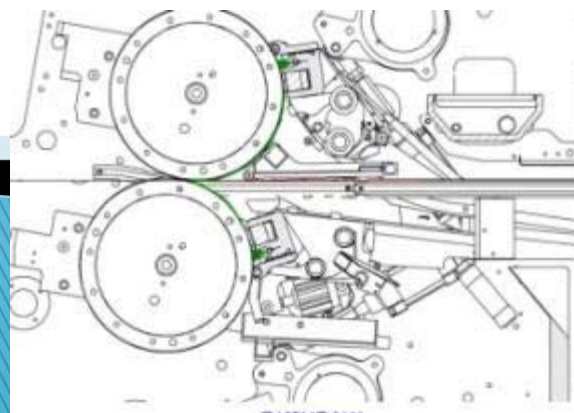


FASTWASH – THE WASHER

FASTWASH BLANKET WASHERS
WORKING POSITION INSIDE THE PRINTING UNIT



PRESSION OFF



PRESSION ON

FASTWASH – THE WASHER

Cloth Movement System

- Pneumatic Ratcheting System
- Switch for cloth end
- Plug-in connector for all the utilities (air, cleaning agent and end cloth signal)

Cloth Movement System

Brake Side

- Pneumatic Driven Brake → No wearing components
- Spring Friction for Back Tension of the Cloth

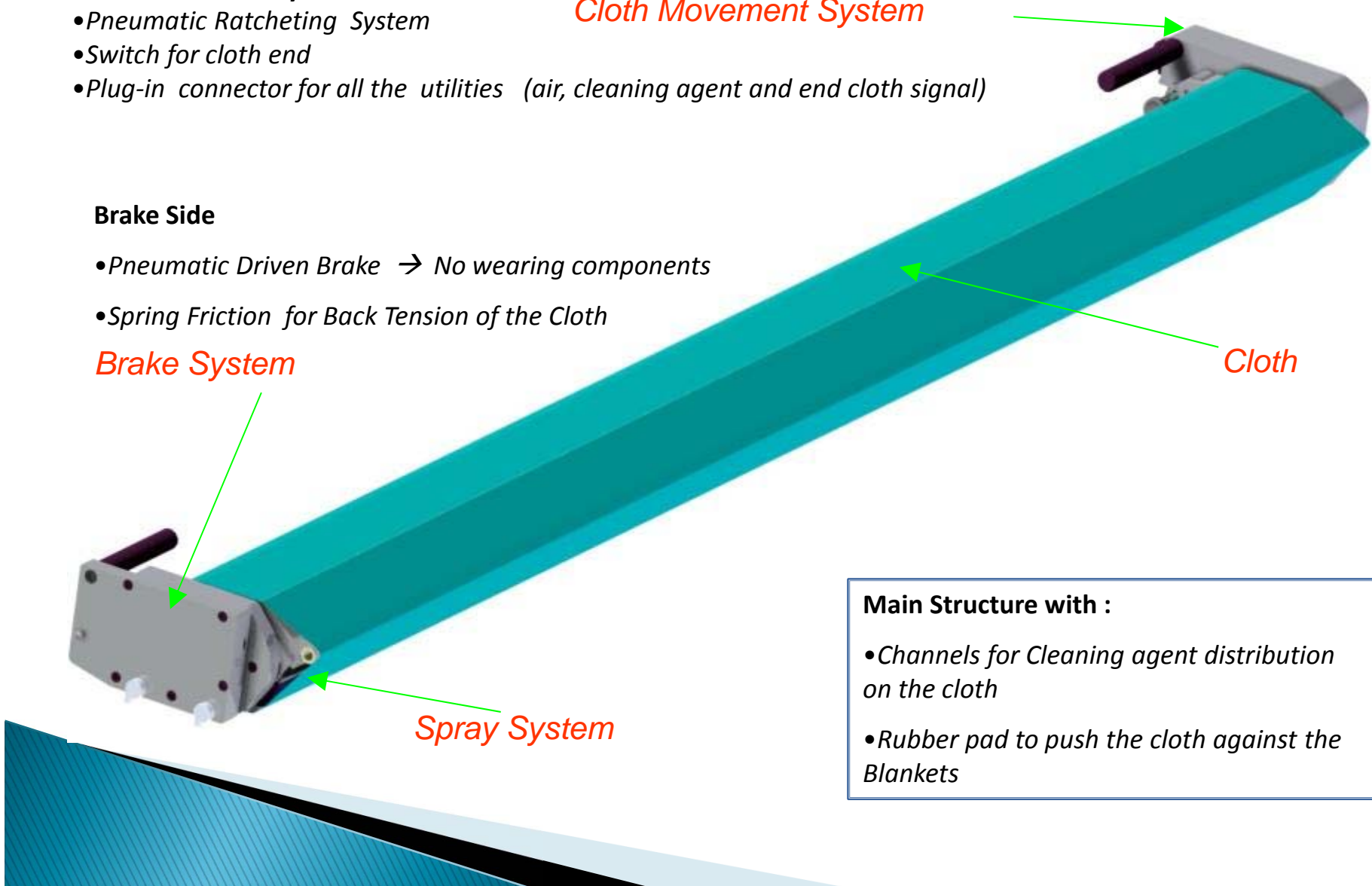
Brake System

Cloth

Spray System

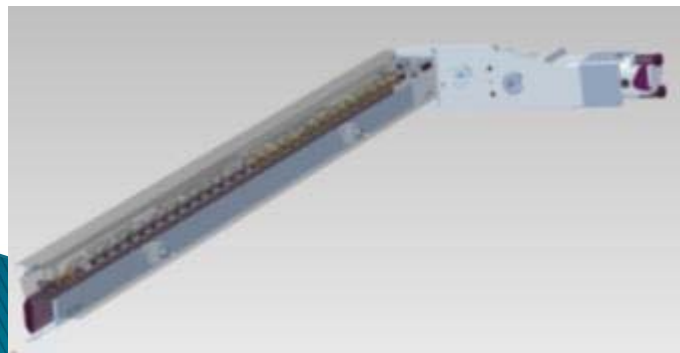
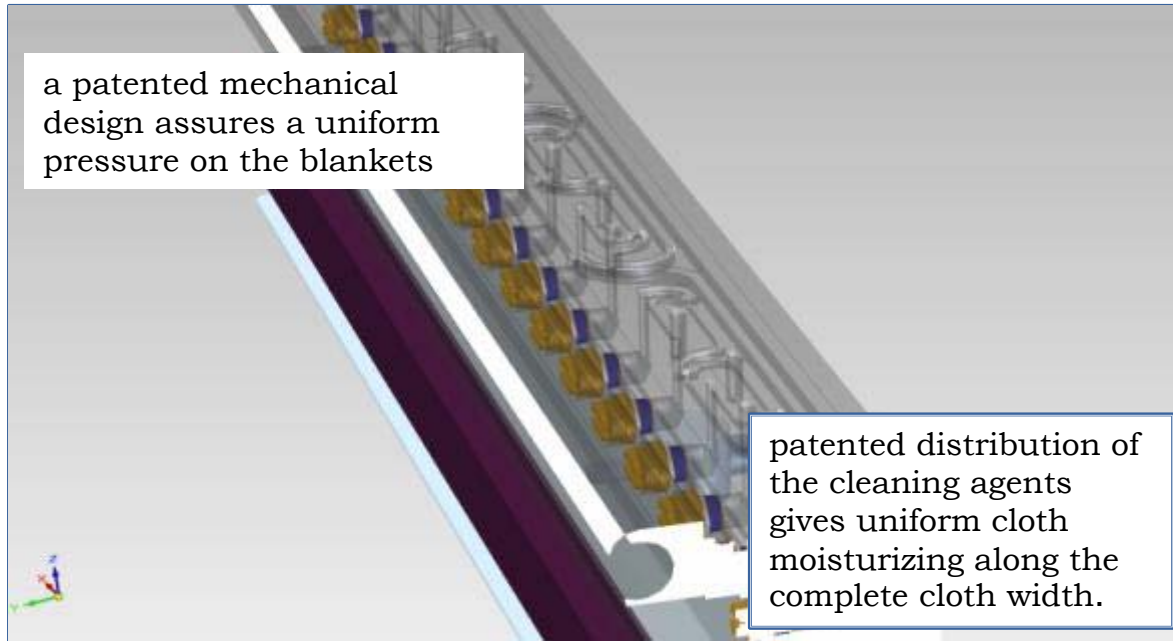
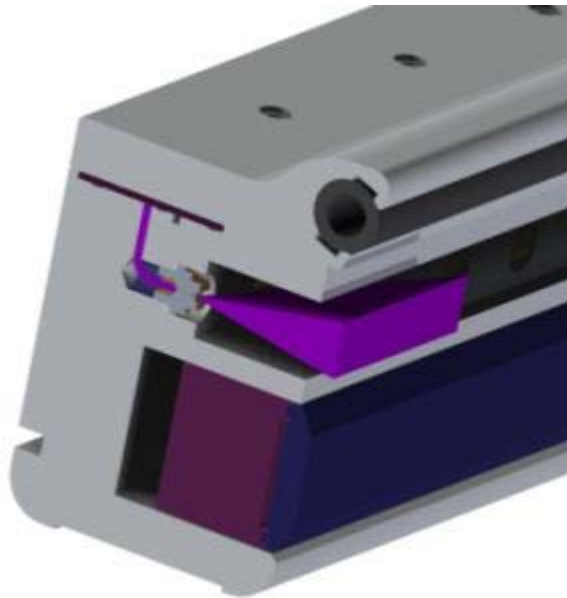
Main Structure with :

- Channels for Cleaning agent distribution on the cloth
- Rubber pad to push the cloth against the Blankets



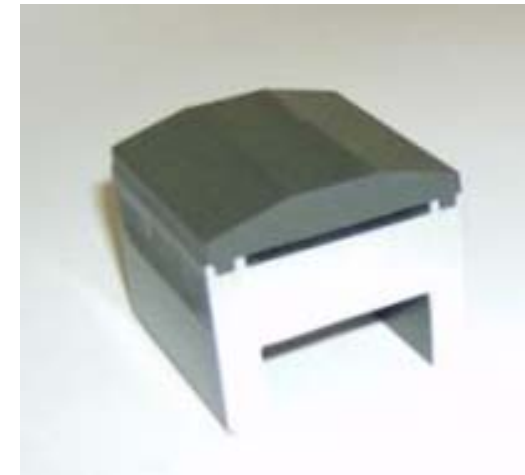
FASTWASH BLANKET WASHERS

.... SOME TECH. DETAILS ...AND SOME ADVANTAGES AGAINST THE COMPETITORS



MECHANICAL ACTION

- *vulcanized rubber pad*
- *SELF-compensating pressure differences*
- *high efficiency wash process due to the semi rigid rubber pad system*



FASTWASH – CONNECTIONS TO THE PRESS & FACTORY



ELECTRO VALVES NEAR TO THE WASHER

- More performances
- Clean & Fast installation



EPU – Electro Pneumatic Unit

- Tanks & Pumps for Cleaning Agent
- Pump for Water (NO Tank , direct connection to the Tap Water line)
- Compressed air connection
- Electrical power supply
- PLC & Interface with the Press
- Modem / VPN / Ethernet Line for diagnosis





CLEANING PROGRAMS

Washing cycle	Impression	Paper in the Unit	Standard Speed	Washing Time
Crawl-Wash	ON	Yes	500 Rev/h	From 40 to 80 Seconds
Start Production	OFF	Yes	From 4000 to 10.000 Rev/h	From 60 to 120 Seconds
Humidify Wash	OFF	Yes	From 4000 to 10.000 Rev/h	From 3 to 7 Seconds
In production	ON	Yes	Up to Maximum speed of the Press	From 6 to 12 Seconds
In production	OFF	Yes	Speed fixed by the OEM, usually 20.000 Rev/h	From 39 to 77 Seconds
Wash during Splice	ON/OFF	Yes	Any	\
End of Job	ON	Yes	Standard 20.000 Rev/h	From 14 to 26 Seconds
Out of Production	OFF	No	From 4000 to 10.000 Rev/h	From 109 to 213 Seconds



PERFORMANCES

IMPRESSION_ON WASHING CYCLE

Wash type	Cloth consumption [mm]	Solvent consumption [cc] *	Water consumption [cc] *	Washes per cloth roll	Cleaning time (full speed except Crawl Wash)
Crawl wash	5	90-150	-	Up to 1500	40-80
In production	5	250	125	Up to 1500	6-12
End of job	5	250	125	Up to 1500	6-12

*Consumption referred to one blanket cylinder

- Each wash cycle IMP_ON USES ONLY 5 [mm] Cloth per wash !!!
- 1500 washing processes → 30 washes per day and CLOTH CHANGE after months
- Copies Waste → from 400 to 500 depending on Paper Quality FROM GOOD TO GOOD

The values here reported above were collected from a certain number of installations .
The values can change due to paper quality, blankets, ink/paper build up , narrow web jobs , number of print copies and other factors .

- Pneumatic independent pilot circuit for cloth ratchet and washers movement
- No alignment required for washers after start-up
- Reduced amount of waste copies during the wash
- Almost insignificant use of cloth during “impression ON” wash process
- Optimized use of the washing solution
- Few maintenance operations required
- **Lowest running costs today available on the market !!!**
- **Generate a real ADDED VALUE CHAIN**



ELETTRA – THE PRODUCTS



M1000



S3000



S4000



LITHOMAN IV
2.860 mm/ 96



S5000



LITHOMAN IV
2.250 mm/80



Thank you very much

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