



INNOVATION AND TECHNOLOGY
FOR PRINTING INDUSTRY





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ELETTRA: Company profile

*Added value chain
for your printing process:
this is ELETTRA's task when
working with you .*

*A clear step forward on all
the products when you want
to select the proper
accessory for your press.*



ELETTRA is an Italian company present on the graphic industry field since more than 20 years. The core business is the design and manufacturing of Automatic Blanket Washer Systems with "cloth technology" for the off-set presses and the continuous improvement of the product

and of the organization convinced the most important OEMs to qualify ELETTRA as Official Supplier. ELETTRA wants now to open its products portfolio "using" all the technical knowledge, the R&D efforts and its organization to support the end user in the selection of the best

product when approaching the market for any requirement. Thanks to its experience and resources ELETTRA is in position to promote a real "added-value-chain" of products (accessories) to be installed into the printing presses and in the different printing fields:

- Commercial Web
- Newspaper & Semi-commercial
- Sheet fed
- Narrow Web



Technology and Services Company Structure

ELETTRA has organized the internal processes following the structure and philosophy of the Uni:ISO 9001 reaching the certification since 2006 and working together with the BG-Berufsgenossenschaft The FastWash system has also the product certification GS-Mark .

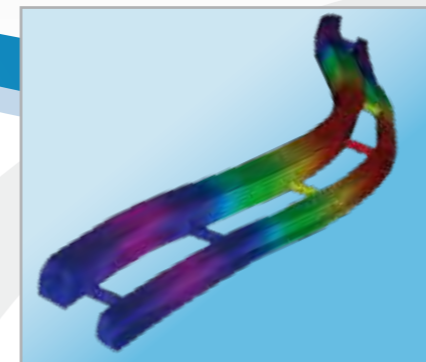
Sales, technical office, manufacturing and after sale service are strictly linked together in a continuous workflow with a common focus: the customer's satisfaction.

Flexibility and networking are the basis to build up a real competence but a further improvement comes from the integration of knowledge and competence of the selected partners. R&D: we must underline the clear and strong aim of ELETTRA towards the R&D. Since the very beginning of its activity ELETTRA has looked to new possibilities to reduce the waste and optimize the accessories for the printing process handling. Its leading competence is always looking to new applications and processes.



RESEARCH

Technological Research means a continuous effort to investigate the market to find out the most advanced materials, the new applications and processes; partner's knowledge and ELETTRA's competence create the best way to give to the market the proper answers to the end user's questions.



SALES NETWORK

ELETTRA sales headquarter is located in Italy and integrated with its own subsidiaries in USA, Germany and Japan. A Worldwide network of agents and distributors is available for all the end user requirements. Evaluate your application, prepare a clear Return Of Investment and organize together with the customer the most suitable solution to have an added value with ELETTRA's product portfolio...is our work.

DEVELOPMENT

ELETTRA applies the latest software programs for the FEM analysis and CAD design to grow up the product as well as its own experience and knowledge for a continuous development of the components and continuous monitoring of the assembly and internal testing activities.



AFTER SALES

Manpower available in the different countries through well trained engineers, a continuous support (first call) always ready to help the customer and a proper availability of original spare parts create a full 360° service.

TECHNICAL OFFICE

From the project to the commissioning the technical office is the "master". Standard products as well as customized projects for the newspaper and commercial web application are always under a continuous control of the technical dept. That gives the details and specification for the manufacturing, testing and final commissioning of the application.



SALES NETWORK

ELETTRA supplies Instruction manuals for all the products where the customer finds the information for the functioning and Spare Parts eventually needed. ELETTRA's Approved Consumables are worldwide available for the end user at "market" price .



ELETTRA is the Company that introduced the Automatic Blanket washing System working in Impression_ON during the cleaning process; since the very beginning to reduce the waste was a clear target of ELETTRA! FastWash is the well known trade mark of ELETTRA's blanket washer system and is everywhere strongly connected to the waste saving during

the production; ELETTRA has improved further more the FastWash introducing the CombiWash configuration specially designed for the Commercial web applications to optimize the washing cycle when working with low quality paper. Full integration with most of the printing presses have been developed by ELETTRA for a user friendly

handling of the system and clear trouble shooting of the system. Hereunder you can find some bullets giving information of the "special technical features" of the different products: why should you select it? Not only FastWash... One product for each section where you have an added value.

Commercial Web

CombiWash



Non-contact web cleaner is universal and suitable for all types of materials and for low to high levels of dust and contaminations. For web application up to the maximum printing speed of and web widths up to 3000 [mm] - 96 pages. Both manual and pneumatic operation. Cleaning of both sides of the web is standard.

Web Conditioning Unit (WCU) installed before entering the printing units distributes a double film of cleaning agent on the web during the washing cycle to impregnate and neutralize the influence of the paper during the washing cycles in Impression_ON - a real plus with low quality paper.

The Automatic Blanket Washing System FastWash performs the proper cleaning action on the blanket using a cloth sprayed with a cleaning agent and afterward pushed against the blanket cylinder maintaining the printing units in Impression_ON and at FULL Speed; combining a uniform mechanical action to the chemical action of the cleaning agent distributed in an even and uniform quantity on the cloth along the web width.

The most performing Automatic Blanket Washing system configuration now available on the market for Commercial web Presses; the lower waste number of copies and an industrial reliable cleaning action with the lower level paper qualities at full speed and in Impression_ON is given by the combination of the action of the web correctly impregnated with cleaning solution (WCU - driven by the same EPU of the FastWash) and the continuous and direct work of the washers on the blankets (FastWash).

The washers bars sprays the required amount of cleaning solution directly on the ink rollers and in combination with the doctor blade supplied by the printing press manufacturer clean the rollers from the residual of ink.

A simple and intelligent system of ink dispensing for web offset printing units. Pumps with hydraulic engine for tanks (customized design) and drums - No problems on gasket keeping Uniform printing quality thanks to steady ink level - No ink-stand overflow. Ideal for centralized ink-management and various ink qualities.

Available different configurations suitable for IPA-free printing process with automatic dosing of the additives, IPA measured with densimeter, IPA measured with high quality measurement devices (market available). Cooling system is available and integrated in the same board i.e. for the ink rollers and also customized solution for different temperature controls.

High quality high frequency electro-valves distribute the water on the chill roll and a sophisticate system of brushes produce the required uniformity of distribution (as a damper) along the width of the paper. The water "removed" by the dryer comes back in the paper during the contact with the chill roll.

Stand-alone configuration with its own control system or integrated solutions using the same Electro Pneumatic Unit of the FastWash. The system has the top flexibility: dry washing or cleaning agent distributed on the cloth to clean the roller when needed.

Glue heads with ceramic nozzle and automatic cleaning function connected to a TCU, tank control unit with Air pumps for glue and cleaning/softening liquid with low level alarm sensors, Filter houses in stainless steel, Proportional solenoids for pressure control and Differential pressure gauge for filter alarm.



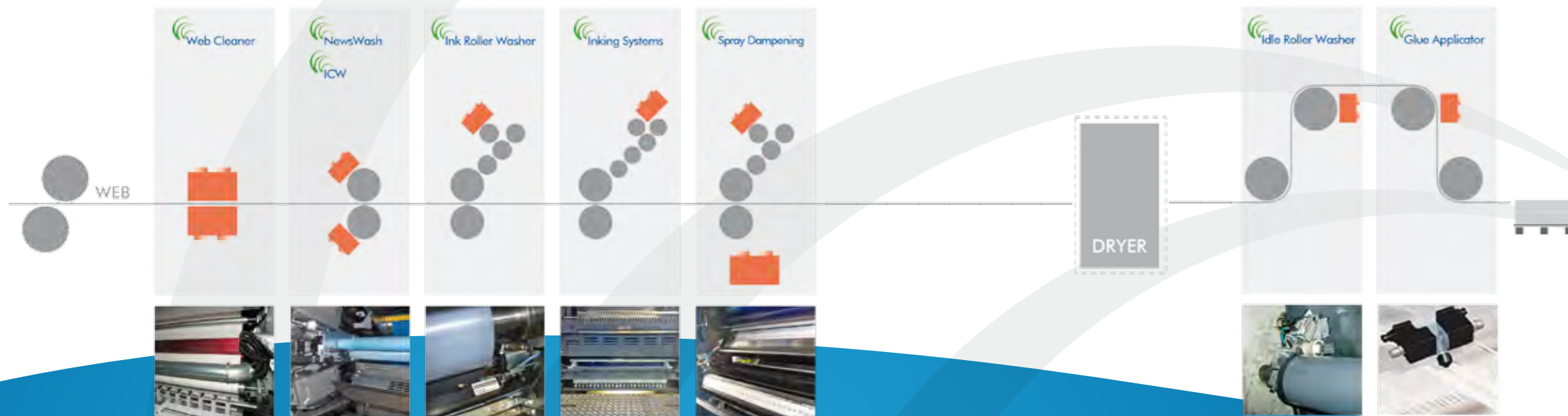
NewsWash is the automatic blanket cleaning system developed by ELETTRA and specially designed for the requirement of the newspaper field; during the years ELETTRA made direct installations through OEMs and retro-fit application and developed special pivoting system configurations or/and single washers

configurations. The "step" of the Semi commercial production has the real answer into the NewsWash when an automatic cleaning system is required and a 24 h production starts: after the washing cycle with ELETTRA the machine is immediately ready-to-print - a wide selection of washing

programs is available for the printers - the lowest level of maintenance on the market - consumables at "market" price. The customer has the possibility to equip the printing unit with all the other components of the ELETTRA portfolio with a real specific added value for each product.



Newspaper & Semi-Commercial



An industrial design of the cleaning head equipped with vacuum device and electrostatic bars to discharge the paper removes the dust from the paper; the filtering system connected to the circuit separates the air from the dust collecting it into a drum. Special design of the filters allows an automatic cleaning of the inside filters avoiding high maintenance costs to keep the system clean

The even distribution of the cleaning agent on the cloth (always in combination with the uniform mechanical action) has the final result of a perfect use of the cloth for the cleaning action: no drops of cleaning agent at all inside the printing unit, no particles of dust released into the machine and also the possibility to install the ICW on the inferior satellite with a perfect cleaning result.

The bar sprays the required amount of cleaning solution directly on the ink rollers and in combination with the doctor blade supplied by the printing press manufacturer clean the rollers from the residual of ink. Different configurations have been developed for the different printing units.

The ink fountain is automatically filled accordingly to the values set by the Operator. Settings and control of ink fountains level are managed directly from the control desk or wherever control unit is placed. The touch screen allows easy input and changes of ink level values, as well as constant control since all data are displayed on it.

Some of the main important features: Uniform distribution of the fountain solution thanks to high frequency electro-valves - No collision between the sprays (special software) - Minimal fall in air pressure and pressure impulses Short opening and closing time - Vent packing made in Teflon - No mechanical adjustment

Spray unit to distribute on the web the necessary amount of cleaning solution (solvent - Solvent excess is then filtered and sent back to the EPU unit). Pneumatic device to stop and move the idle roller in the opposite direction of the web; the system is applied to each idle roller that the customer wants to clean.

Newspapers have increased colour and pagination to stay ahead of the competition and here is your product; by gluing your broadsheet newspapers you would reap the following editorial and advertiser benefits: an easier product to read and handle for a better production flow.



The wide experience on the printing industry made by ELETTRA arrives to promote flexible solutions with single or double washing systems to clean blankets and impression cylinders with the same washer; this configuration always grants the same high washing quality of FastWash but dramatically reduces the cost of the complete system; now available with ink rollers washers connected to

the same EPU. Perfect results in the washing quality added to use of standard consumables (cloth and cleaning solutions) is completed by a proper design of the system to give you the most competitive automatic blanket and impression cylinder washer. Official supplier and fully integrated with the controls of the most important OEMs both for the

automatic washing system and with the ink, ELETTRA is now in position to promote new products like circulators and inking systems, but also new technologies to improve the flexibility of the machines for the final finishing. A new idea for a new technology really important for the next challenges of the graphic market...



Sheet-fed



The combined and simultaneous use of water and cleaning agent carefully dosed and mixed to clean the blankets and also the impression cylinders with a strong, constant and uniform mechanical action, ensures the quickest most efficient wash today available on the market: a real answer to the reduced make-ready timing.

The bar sprays the required amount of cleaning solution directly on the ink rollers and in combination with the doctor blade supplied by the printing press manufacturer clean the rollers from the residual of ink. Different configurations developed for the different printing units and integrated with the press control

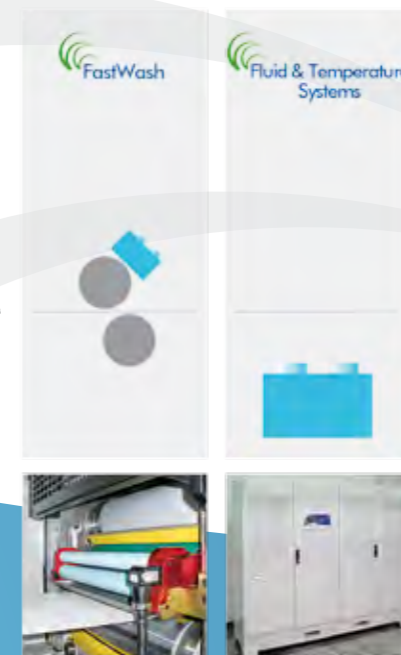
Pumping system suitable for ink drums from 200 kg or 500/1000 kg tanks with Integrated consumption detector for each machine. Readout on display of tanks ink level with automatic device that stops pumps when drums or tanks are empty. Easy change of drums without ink-waste.

This system automatically controls all variables that affect the dampening solution during the printing process, such as contact time with ink, paper and air. The system constantly monitors dampening solution variables to guarantee the printing conditions. Maintenance software is integrated into the electronic control with a user friendly interface.

Add a clear layer (in liquid state or film format) on substrates (printed or unprinted) to protect and/or enhance the appearance of products. C2TM, a process that involves with casting (by using a reusable film against a wet high solid coating) and curing (by UV light or EB energy through the film while the film and the coating are still in contact). The film's uniform surface characteristics (gloss, matte, or even a clear holographic structure) can then be reproduced in a spot or an overall coating pattern over a printed surface.



Narrow Web



Long term experiences on all presses configurations and printing with all paper qualities. Narrow-web presses have been the first installations made by ELETTRA - long term relationship with the OEMs.

ELETTRA designed and manufactured different flexible solutions customers' oriented from the common technological basis of the perfect dosing of cleaning solution and uniform mechanical action to obtain the best performances with different papers and inks, hybrids and UV included.

The cost of a blanket washing system is not only its price: ELETTRA provides the best value with the lowest running costs (dry cloth and standard cleaning solutions) and the highest flexibility like the possibility to exclude the water from the washing solution as well as using a large quantity of it (up to 70-80%) to work with the different printing conditions.

Available different configurations suitable for IPA-free printing process with automatic dosing of the additives. IPA measured with densimeter, IPA measured with high quality measurement devices (market available). Cooling system is available and integrated in the same board.

A user friendly interface and an easy-to-handle product is the further plus of ELETTRA. Circulators and cooling systems are the new development already available for the application of a full package with ELETTRA.



ACCESSORIES

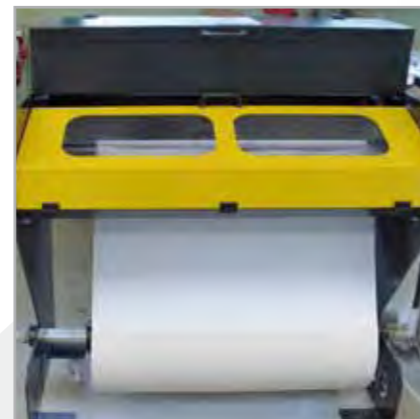
Spare Parts



Consumables



Pronto Systems



ELETTRA provides spare parts components for its systems. The different materials are immediately available from the stock and/or directly manufactured upon request. The instruction manuals of the products are the best support to help the customer and ELETTRA's after sale Service in this work. Our Service dept is always available to work with the customer to find the right part or to give the due assistance through a "first telephone call" and/or with trained engineers on site.

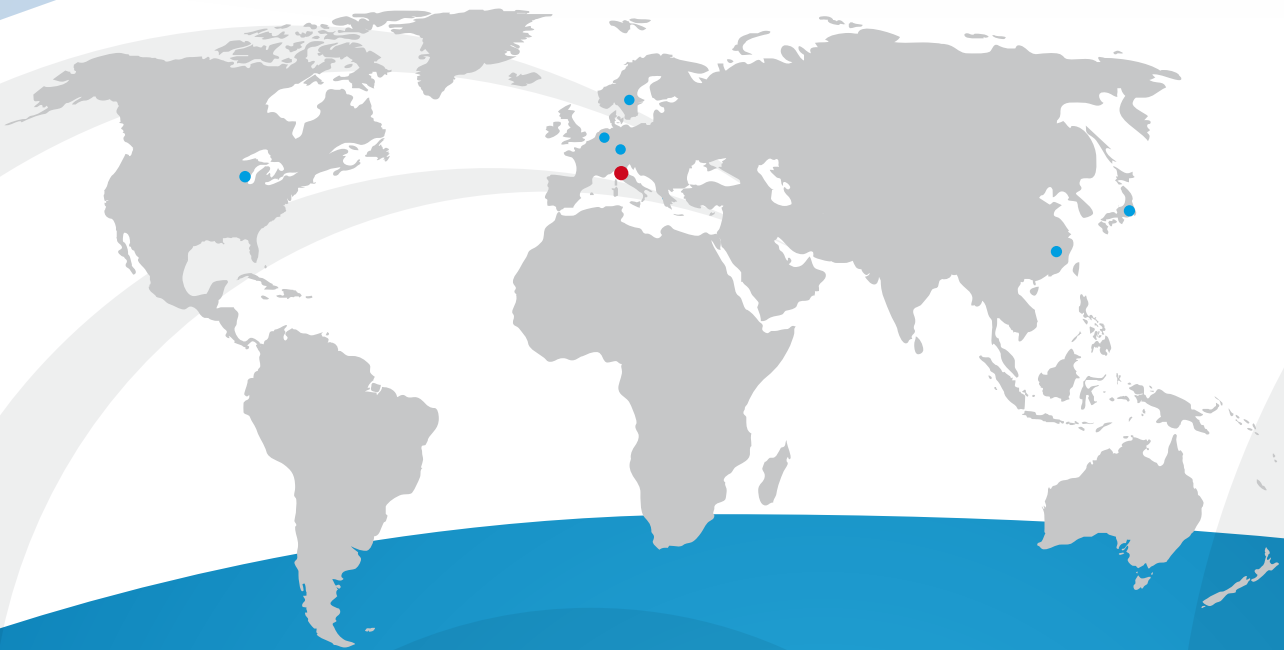
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ELETTRA selected a list of products suitable for its systems for the different application fields of the printing process. Now ELETTRA wants to introduce itself as supplier also for these consumables: cleaning agents, special additives always connected to the blanket cleaning process and cloth. The deep knowledge in the process and in the product to work together with the customer.

Always together with the customer PRONTO SYSTEM is "The easiest way to prepare home-made pre-wet rolls in your factory". Flexible regulation to set the proper amount of cleaning solution in the cloth for different printing conditions and applications (commercial web, sheet fed, narrow web). -Ink, paper dust and all impurities are carefully removed thanks to the guaranteed uniform distribution of "fresh" cleaning agent -Optimized cloth consumption means also less cloth roll changes.

Best on the market running costs thanks to the use of ELETTRA's selected consumables





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