



...art in rebuilding...

With the full commitment of the Ermolli's technicians, Sael has made the Control desk and Continuous drive revamping by its ONE Drive Platform. Using the Long Life Inverter and the DCS in drive One - which allows to solve any kind of drive management. Within two weeks all the wet-zone has been completed as much as the dry-zone system preparaiton.

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Located nearby the A23 Udine-Tarvisio highway, and S.S. 13 Pontebbana, Cartiera Ermolli has a 52.600mq plant - 22.000mq full manufacturing area - 24/24 Continuous production by three lines who fulfill any market requirement. Thanks to the latest and full uploaded "on-line" / "off line" control systems, high standards

and flexibility are the value selling points of this Company.

The manufatruting lines:

·PM1 line: 2.240 mm size and 25 to 70 gr/mq basis weight. Due to specific surface treatments by fluid film solutions as much as coated with high solids content this line is mainly focused on "special" papers

production. A simultaneous dual face sheet treatment is possible too.

·PM2 line: 2.100 mm size and 18 to 35 gr/mq basis weight. This line is mainy focused on light papers produciton for food industry and hygiene.



POPE Zone made by AC ONE Platform - wet-zone



LONG LIFE ONE Inverters are a specific product for Paper industry. Easy replacement. Friendly user to none specialized maintenance people. Never ending life components used.



Equipment view - The old inverters replaced by the “ONE DRIVE Platform”

PM3 line: 2.120 mm size and 40 to 170 gr/mq basis weight. Equipped by a “Size Press” section for the film-forming or natural pigments treatment, is also used for massive standard paper production.

The last paper treatments are made by specific and high tech machinery. Beside the 24/24 lines there are two wettings, four high heating supercalander, and four rewinders. Due that Ermolli offers a broad and perfect roll paper production with any kind of paper.

Fully automated packaging systems allow a fast-efficient-safe shipping to the final destinations.

Building steps at Ermolli’s

The PM1 command was the focused area. It was originally based on a bunch of equipments located in different areas of the plant. The command drives 24 AC/DC motors by ABB and EVI drives. Those drives have been added to the original command and managed by an analogical-digital ref anymore available as spare parts.

After a careful study of the machine and according to the start-stop timelines - 8 days maximum - a multiple steps job has been offered. This approach allowed to split the Comand cost over the months. By the first step started on August 2012 the wet-zone drivers have been renewed - this was the most critical area -.

The basic system architecture used allowed the conversion of the entire Command.

This on site action converted the system into a full digital Command. By the **DCS in drive One** control,

SAEL delivered a solid and reliable job who pushed the Ermolli's Management to speed up the Dry-Zone update. "Ermolli did join our experienced revamping philosophy already placed on many sites. Reborn application to the existing drives first, and sPLC system management then" - n.d.r. Paolo Andrighetti, Paper Strategic Market Manager of SAEL - "Actually our drives have been engineered to do that vs. many others on the market. That's our strenght. No cascade coordinator is needed for the drives communication and information exchanging (PLC - Microprocessor boards - DCS) vs. our standard competitor products. The settings, Speed refs, Regulation loops, loads, etc are automatically settled." "After the first aid step, we move forward building the Drive section where the old electrical equipments are updated by the Reborn intelligent device after cleaned and reconditioned" - Further noticed by Andrighetti.

"One Drive Platform" by SAEL

"ONE DRIVE" Platform technology, launched on 2011, clearly represents



New equipment for the wet-zone and Pulper drive.



Wet-zone Drive view - The old DC motors replaced by new AC motors driven by "ONE DRIVE" inverters

a benchmark alternatives to the market drives. Its philosophy is based on a reversed concept vs. the existing devices available today. Actually one single board controls all the AC, DC drives, Choppers, Brushless and Reborn - the universal DC drives replacement -

A signal board as spare part for the customer, Reborn and ref loop. Nothing else!

The replacement can be done within 3 minutes due to a flexible data memory

- flexible, easy to place by everyone not experienced on drives

- No programming, no parametrization or difficult passages given by specific tools. Nothing else!

"ONE DRIVE" invertes meet the paper industry needs because of film capacitors use vs. electrolytic normally used by other drive manufacturers

- Due to the use of non perishable components this gives a no stop life vs. 60k to 70k hours in average.

The Telecontrol allows a remote diagnosis of the system through the "DCS in drive ONE". This completes the platform bringing a couple of main key performances: Easy spare parts replacement and a long life system.

The cost saving policy pursued by the Paper Management customers, according to the drive partner selection, puts up the Value Selling of SAEL. Reliable, tough and rough, competitive drives and systems.





“PLATFORM ONE” drive test process. Easy to be handled on

SAEL does not stop its action by the first taking place or sales. The after market, the continuous technical support and the updates are a must offering free stages to any customer interested. Thanks to those activities over the years SAEL got a lot of input from the customers who have been reversed into innovations. Actually

further analysis made by Dr Gilio Munaro - Ermolli's General Manager - drove the Company to the AC SAEL platform for the wet-zone update. Of course the multiple step update philosophy mentioned above will allow the Customer to revamp the complete Drive within Reborn based on ONE Platform or AC on Platform ONE either

as a great Value Selling advantage.

**“One Drive Platform”
born for
PAPERMILL**



Wet-zone at Ermolli by “SAEL Platform ONE”