



SAEL - ECZACIBASI CONSUMER PRODUCTS PAPERMILL – TURKEY –AUTOMATION AND DRIVE REBUILDING OF THE JAGENBERG VARI SOFT 76-22 TISSUE WITH 4 UNWINDERS.

ON DECEMBER 2021, THE MACHINE STARTED UP BY THE PULPER AND AUTOMATION CONTROL SYSTEM MODERNIZATION. THE REBO ACHIEVED THE **98% OF EFFICIENCY** WITHOUT MECHANICAL MODIFICATION: A RESULT ABOVE THE EXPECTATIONS.

SAEL... IPEK-ECZACIBASI

by: **Paolo Andrighetti SAEL**

Another SAEL/SINERGY application for the most important Turkish Papermill Group. The long experience and knowledge of SAEL – today SINERGY strategic partner - in the Papermill industry, drove this important Group to sign the order. The job was made using standard Siemens PLC vs. the original solution with microprocessor units owned by Jagenberg with S5-Symadine PLC, as much as the ABB drives vs. the SIMOREG by Siemens – to a higher performances. Since years, **Eczacibasi Consumer Products Papermill** invests on high performance and technology solutions. That's why chose SAEL/SINERGY after a deep benchmarking of competitors.

HISTORICAL BACKGROUND of ECZACIBASI CONSUMER PRODUCTS:

Turkey's first manufacturer of tissue paper products. Since 1969, when they inaugurated Turkey's first tissue paper plant, Eczacibasi Consumer Products has led the growth of Turkey's tissue paper market. Selpak, Solo, Silen and Servis tissue paper brands are used in three out of five

houses in Turkey. For over half a century, Selpak has introduced Turkey to new standards of softness and absorbency while creating a notable shift in consumer behavior by improving hygiene awareness throughout Turkish society. Per capita tissue paper consumption has increased from about 20 grams at the beginning of the 1970s to its current level of 6.5 kilograms, and Selpak has played a pivotal role in this change. The market leader in Turkey of branded tissue paper, Selpak is used

by millions of consumers in more than 60 countries today. In addition to producing Selpak locally in Azerbaijan and UAE, Eczacibasi Consumer Products have sales teams in Morocco, Iraq, Ukraine and Kazakhstan. Current research in their export markets Consumer research in different markets indicates that Selpak is the first brand that comes to mind in the "premium - top quality" segment.

Building on leading position in the Turkish market and extensive



UNWINDING STANDS OF THE JAGENBERG WINDER - IPEK KAGIT TURKY -

expertise in personal care, Eczacibasi CONSUMER PRODUCTS made a significant overseas investment in 2021 to a converting plant in Morocco. This facility, Eczacibasi Group's first investment in Africa, began test operating in December 2021 and will facilitate the company's international expansion. **SAEL/SINERGY** is an awarded Automation system "Tylor maker", reliable, flexible with a high technical background. That's why Eczacibasi CONSUMER PRODUCTS went for this partner. The flexibility of our system and the Open-source Software Automation (no Black Boxes) using Siemens PLC, showed benefits and savings since the beginning. Another important, and win-win decision of the Papermill, was made on having ABB Drives. The turn-a-key solution by SAEL/SINERGY the involved the whole process : from the engineering to the replacement of the existing electronic boards, by the newest 1500 SIEMENS PLC. The philosophy of SAEL is to concentrate the control into a PLC vs. the use of single boards for different applications and regulations.

THE WINDER DRIVE



The new electrical cabinet manages the 12 dc motors at 400V of the Winder, as well as the remaining motors and actuators. To meet the Customer requirements, the system automation is based on our SAEL

Winder via "WINCC" Scada. Thanks to this system the operators can troubleshoot before any intervention. To a quick machine restart in case of Restart in case of fault, the electronic tech can access to the system,



Electrical cabinet of Automation and Drive using ABB DC DRIVES.



ALL THE STAFF INVOLVED ON THE RECONSTRUCTION - IPEK AND SINERGY -

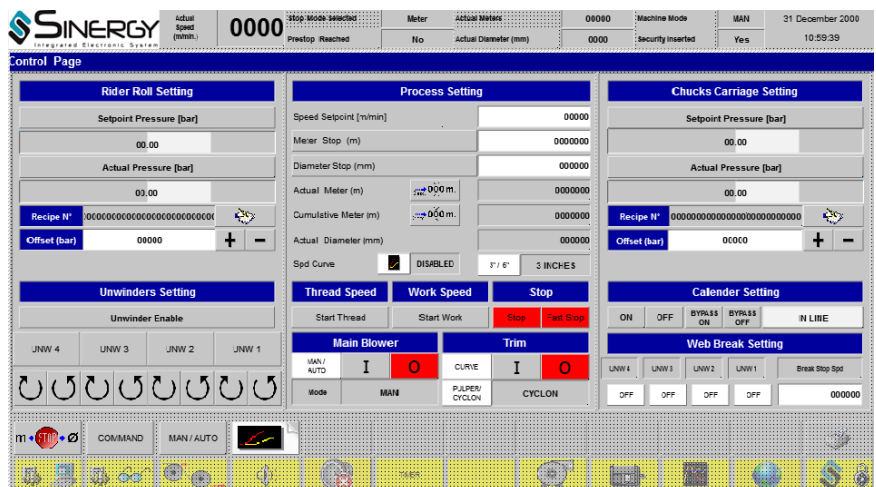
remotely, driving the machine operator whenever and wherever he is. In this system at Eczacibasi CONSUMER PRODUCTS, the computing and drive/plc ref generation, were originally based on many Siemens boards managed via old PLC units. The customer declared its dissatisfaction about the system mentioned above, as much as concerned for the unavailability of the spare parts. The elimination of this architecture has been the “go” for a new rebuilding. Beside the new electrical cabinet, other components have been supplied, like: PLC CPU–I/O Remote and Boards–Drives (one for each size used)

Thanks, for the contribution of ELKODA Engineering and Automation Company since the beginning of the project. It is the official service point of SAEL/SINERGY since 2021 in Turkey.

The company provides electrical and automation engineering for industrial automation solutions. With the Professional contributions of ELKODA, SAEL/SINERGY will be stronger in Turkey to access and support its customers.

TAB.1 REWINDER MOTOR LIST – LIST OF DRIVES :

Identification		Motor			ABB DRIVES
S/N	MOTOR NAME	Mtr. kW	Arm. Volt	Arm. Amps	
1	MAIN DRIVE	87	400	244	DCS880-S02-0350-04
2	CALENDER TOP ROLL	101	400	276	DCS880-S02-0350-04
3	CALENDER BOTTOM ROLL	36	400	100	DCS880-S02-0140-04
4	RIDER ROLL	3.5	400	9,7	DCS880-S02-0025-04
5	UNWIND 1	28.5	400	82	DCS880-S02-0140-04
6	UNWIND 2	28.5	400	82	DCS880-S02-0140-04
7	UNWIND 3	28.5	400	82	DCS880-S02-0140-04
8	UNWIND 4	28.5	400	82	DCS880-S02-0140-04
9	LEAD ROLL 1	5.3	400	15	DCS880-S02-0025-04
10	LEAD ROLL 2	5.3	400	15	DCS880-S02-0025-04
11	LEAD ROLL 3	5,3	400	15	DCS880-S02-0025-04
12	LEAD ROLL 4	5,3	400	14	DCS880-S02-0025-04
13	SLITTERS (n.15 motors //)	0.22	400	11	ACS880-01-025A-3



Screenshot of the Supervision system realize with Siemens software