

STENTERS CONTROL



Job	Length	Length Remaining	Recipe	312 Crease Resist	Total()
57213262R	6500	2216	312	Crease Resist	463
Status	Chemical	Name	m/liner	L/lers	
Added	fixapretaco (7)	FIXAPRET ECO	21	16.00	
Dispensing	avcopal bn (7)	AVCOPAL BN	1	0.76	
Auto	biosoftnic (6)	BIOSOFT NIC	45	34.29	
Manual	MgCL2 (4)	Mg Cl 2	7	5.33	

The schematic diagram shows a chemical dispensing system with two tanks labeled 'A' and 'B'. Tank A is labeled 'Transferring' and Tank B is labeled 'Dispensing'. The system includes various pipes, valves, and a control panel with buttons for 'A', 'B', '7', and 'AVCOPAL BN'. There is also a '312' label and a '16.40L' label. The diagram is color-coded with blue and red lines.

Dye Mond L.T.D		Stenter N.o 13	
Lot	Recipe	Blue	70201 Kg
R-3487590	Blue	70201	290
Proc.	Thermosetting	100	Meter
1100			

The graph shows a temperature profile with a peak and a dip. The x-axis represents time and the y-axis represents temperature. The profile is labeled 'DM'.

Manual Change	Fabric	C°	-1.45	+2	-1.80	+2	-1.165	+2	-1.163	+2	-1.163	+1	-1.162	0	-1.162	0
Air	C°	101	105	108	109	109	109	107	107							
Width	cm	170	160	160	160	160	160	160	160	160	160	160	160	160	160	160
Exhaust	%			80		82										

The control panel includes buttons for 'Stop', 'Start', 'New', 'Procedures', 'Reports', 'Set Up', and 'Exit'. It also displays 'C° Fabric Bay 3R' and 'End in 42 min'.

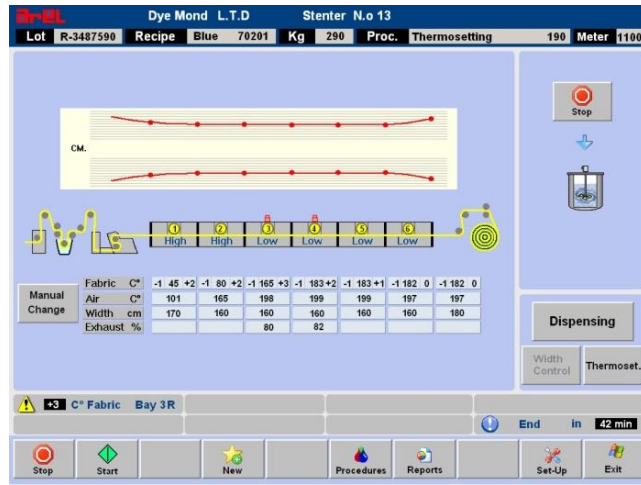
TOTAL CONTROL

In addition to heat setting control Arel offers also TOTAL integrated control of **all** the stenter functions.

Based on recipe management of the required set points for each quality ,the controllers may monitor and control:

- Chamber temperatures
- Moisture retention
- Stretch/shrinkage (over feed)
- Fabric width
- Fabric weight
- Padder pressures
- Exhaust humidity
- ETC

Arel offers also complete standard ,as well as, customized reports per batch and summarizing reports including: speed ,consumption, deviations and efficiency reports.



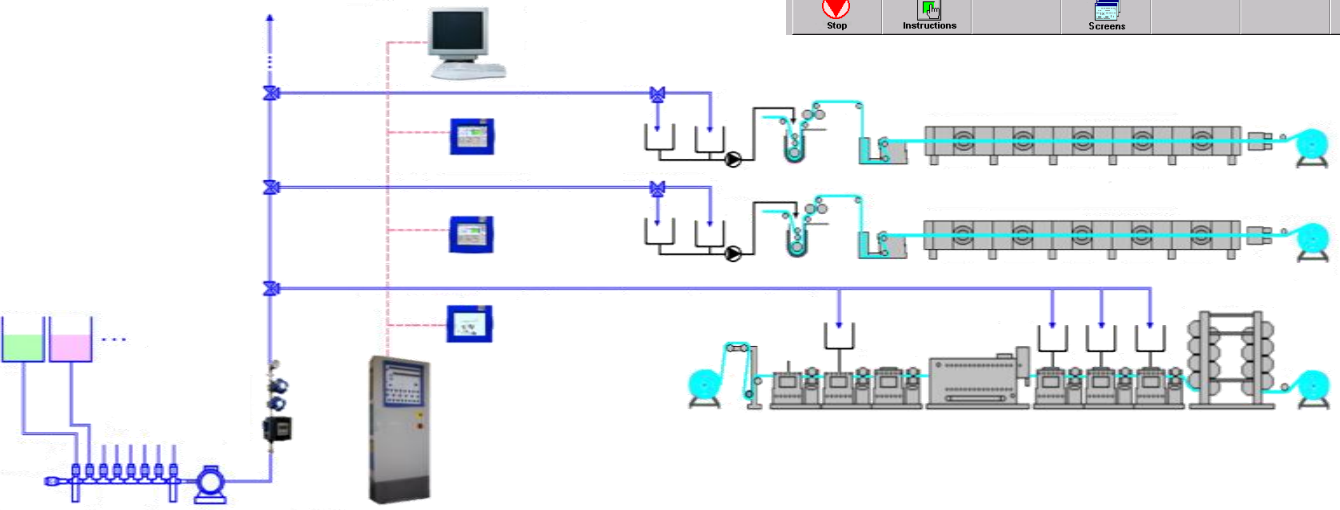
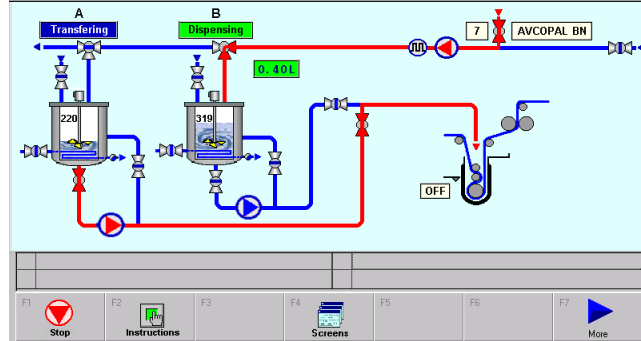
DISPENSING

Arel technology enables to operate **common chemical dispenser** for the stenter foulard from each stenter controller.

The saving of a dedicated dispenser computer simplifies and reduces substantially the system cost. The concept enables integrated recipe which include all the operation parameter of the stenter together with the recipe for the chemicals.

In order to save the waist of residues chemicals at the end of each batch, the chemicals are dispensed in small portions to fit the actual pick up versus the remaining fabric length.

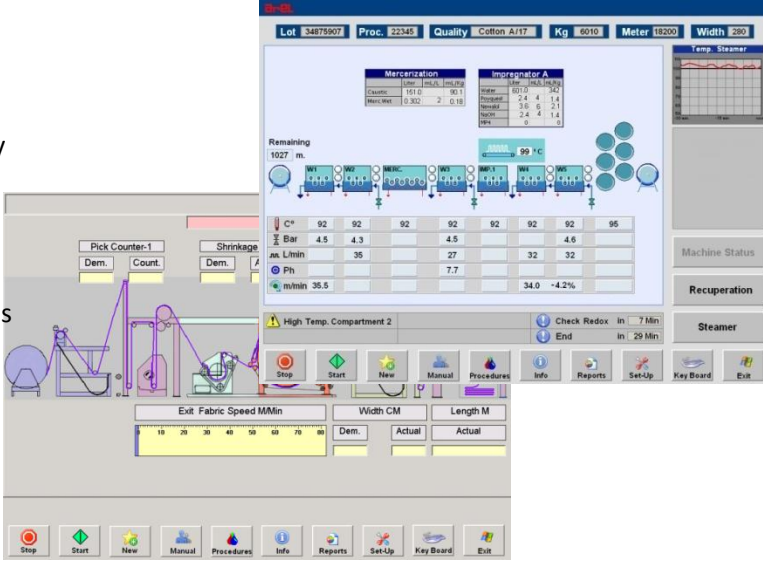
Job	57213262R	Length	6500	Length Remaining	2215	Recipe	312 Crease Resist	Total(t)	463
Status	Chemical	Name	ml/liter	Liters					
Added	fixapreteco (2)	FIXAPRET ECO	21	16.00					
Dispensing	avcopal bn (7)	AVCOPAL BN	1	0.76					
Auto	biosoftrnc (6)	BIOSOFT NIC	45	34.29					
Manual	MgCL2 (-)	Mg Cl 2	7	5.33					



FINISHING MACHINERY

Arel unique software tools ,pc based controllers and I/O modules enable easy configuration of finishing machinery to any control or monitoring function Including:

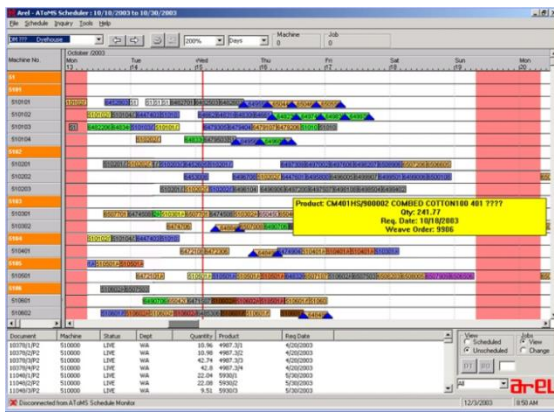
- Recipe library management
- Process visualization
- I/O allocation and calibration procedures
- Reports generators for historical events, trends, chemicals and energy consumption, and much more.



BACK OFFICE

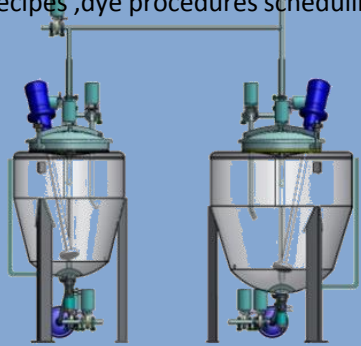


All Arel controllers may operate individually, or as part of arel **MES- Management Execution System** of the wet processing production floor. In addition to Arel production floor management system Arel offers also **Process Management** system- from **YARN TO DISTRIBUTION**. Arel process management system covers all **PLANT** processes together with sophisticated applications for Planning Scheduling and Global sourcing.



Established in 1971 AREL was one of the first to introduce computerized control into the textile wet processing industry Arel offers today a complete range of integrated solutions for the textile industry with emphasis on control systems for the batch dye house. Among the rest AREL range of products includes:

- PC based machine controllers
- Chemicals dispensing systems
- Dissolvers
- Salt dispensers
- Control center with OPTIMIZATION of recipes ,dye procedures scheduling and dissolving parameters



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