

ELECTRICAL PRODUCT CATALOG



Our Electrical Conversion Portfolio



Blowroom



Carding



Comber



Speed Frame



Ring Frame

www.sakthiassociates.co.in

OPTIMIZING CONTROL PANELS FOR BLOWROOM MACHINES





"Providing Automation Solution for all Blowroom Machines with our software kit."

SALIENT FEATURES:

- Easy remote ON & OFF sequence possible through our HMI.
- ▶ All alarm messages will pop up in HMI for easy troubleshooting.
- ▶ Opening Rollers & Feed Rollers Speed can be assigned through HMI.
- ▶ Opening Rollers speed monitoring is inbuilt.
- ▶ Intelligent Contifeed system will result in consistent & better material feeding.

BLOWROOM PRODUCTS:

- ▶ EGS / Line Commander control Panel complete Automation.
- ▶ TKN Network will be replaced with our DI Controls.
- ▶ BDT / Unifloc Panel Automation.
- ▶ Uniclean Panel Automation.
- ▶ Mixer machine (MPM, UNIMIX) Panel Complete Automation.
- Uniflex / CLC Panel Automation.
- Intelligent Contifeed System.
- ▶ PID System for all waster collection filters.



LINE COMMANDER PANEL POWER CONTROLS



COMMON ALARMS	LINE 1 ALARMS	LINE 2 ALARMS
EMERGENCY	MONITOR POSITION A	MONITOR POSITION B
STOP BUTTON FAIL	UNIMIX 1 READY	UNIMIX 2 READY
FIRE ALARM	UNIMIX 1 ALARM	UNIMIX 2 ALARM
COMP READY FAIL	FLEX CLEAN 1 READY	FLEX CLEAN 2 READY
MOTOR OLR FAIL	FLEX CLEAN 1 ALARM	FLEX CLEAN 2 ALARM
METAL DETECTOR FAIL	CCM 1 READY	CCM 2 READY
WASTE COLLECTION FAIL	CHUTE 1 LOW PRESSURE	CHUTE 2 LOW PRESSURE
PROCESS LINES SELECTED		
BALE PLUCKER READY		
BALE PLUCKER ALARM		
VARIO CLEAN READY	ALARM HISTORY	
VARIO CLEAN ALARM		BACK

ALL MACHINES ALARMS IN SINGLE SCREEN

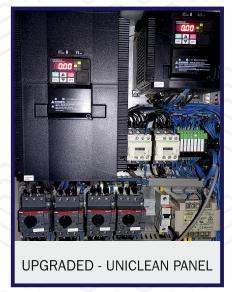


LINE COMMANDER PANEL AUTOMATION CONTROLS

OPTIMIZING CONTROL PANELS FOR BLOWROOM MACHINES















ADVANCED UPGRADES FOR CARDING MACHINE

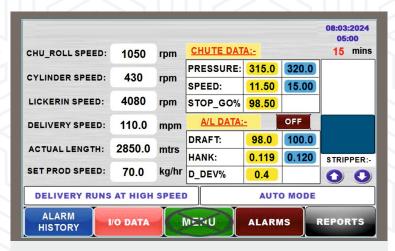


SALIENT FEATURES:

- ▶ Conventional Baumuller Drives will be replaced with our PMM Drives conversion.
- ▶ Existing Servo Motors will be replaced with induction gear motors along with pulse output drives.
- ▶ DFK DC Motors will be replaced with AC Induction motors.
- ▶ Rieter Carding C50 & C51 complete panel conversion.
- ▶ Complete panel conversion with PLC & HMI.
- ▶ Consistent performance with better quality.



DK 903 - DK 803 - DK 760 - DK 740 C50 - C51



UPGRADED HMI OF CARDING MACHINE



UPGRADED CARDING C50 & C51 DRIVE AND PANEL CONVERSION



UPGRADED CARDING C50 & C51 HMI CONVERSION



PMM DRIVES CONVERSION



DRIVES WITH MOTOR CONVERSION



DFK FEED ROLLER MOTOR



MACHINE FEED ROLLER MOTOR



COMPLETE PANEL AUTOMATION



DELIVERY MOTOR



DOFFER MOTOR

OPTIMIZED CONTROL PANELS FOR COMBER MACHINES



SALIENT FEATURES:

- ▶ RMP & SCU PLC will be replaced with our PLC.
- ▶ B&R HMI will be replaced with our HMI.
- ▶ Waste collection Suction pressure monitoring is inbuilt.
- ▶ Brush Speed monitoring is inbuilt.
- ▶ Digital pressure switch provided for detaching roller & Drafting roller.



WE CAN MODIFY ALL TYPE OF LAP FORMER & COMBER PANELS WITH OUR SYSTEM







UPGRADED UNILAP PANEL

UPGRADED UNILAP HMI

UPGRADED UNILAP HMI ALARMS



OLD PLC SYSTEM: SCU & RMP



OUR MODIFIED COMBER PLC PANEL



OLD HMI SYSTEM: B&R



OUR MODIFIED COMBER TOUCH SCREEN

ADVANCED UPGRADES FOR SPEED FRAME MACHINE PANELS



SALIENT FEATURES:

- ▶ Cone drum will be replaced with induction motor (closed loop feedback).
- ▶ No need of Mechanical adjustments for tension control
- ▶ No need of Mechanical adjustments for bobbin angle
- Consistent Tension control from initial to full bobbin without tension sensors.
- ▶ Speed pattern can be adjusted with 10 steps.
- ▶ After set length / dia during doffing bobbin Rail will reach home position automatically.
- ▶ Bobbin Reversal safety monitoring through digital encoder pulses inbuilt.

A Complete Technological Solution Suitable for Toyota FL-16, FL-100, Howa, Jingewi, LF - 1400 & 1465





MODIFIED FL-16 ELECTRICAL PANEL



MODIFIED JINGEWI ELECTRICAL PANEL



MODIFIED HOWA
ELECTRICAL PANEL



MODIFIED FL - 100 ELECTRICAL PANEL





CONE DRUM REPLACED WITH INDUCTION MOTOR

EFFICIENCY UPGRADATION FOR RING FRAME



A Complete Technological Solution Suitable for LRG5/1, LR 6, G30, K40, RX 240 Machines

SALIENT FEATURES:

- Precision Ring rail movement with Motor Drive System.
- Reduced startup breaks achieved by controlling the ring rail position in millimeter accuracy. All the ring rail position and speed settings can be set through display.
- We can achieve the below target in startup breakages
 - 2 to 3% Fine counts
- 1 to 1.5% Coarse counts.
- Cop content increase 3 to

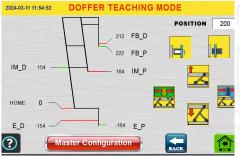




WITH SNARL

AFTER SNARL REMOVAL





UPGRADED MACHINE HMI

UPGRADED DOFFER HMI

MODIFIED ELECTRICAL PANEL

MECHANICAL COMPONENTS ELIMINATED BY THIS CONVERSION



- 1. Long snarl Cylinder
- 2. Short snarl Cylinder
- 3. Toggle Lever Cylinder
- 4. Under winding Cylinder
- 5. Damping Cylinder
- 6. Mechanical ratchet
- 7. Arm for ratchet
- 8. Heart Cam
- 9. Taper ration cam
- 10. Cop base cam





RINGRAIL **VFD DRIVE**



