

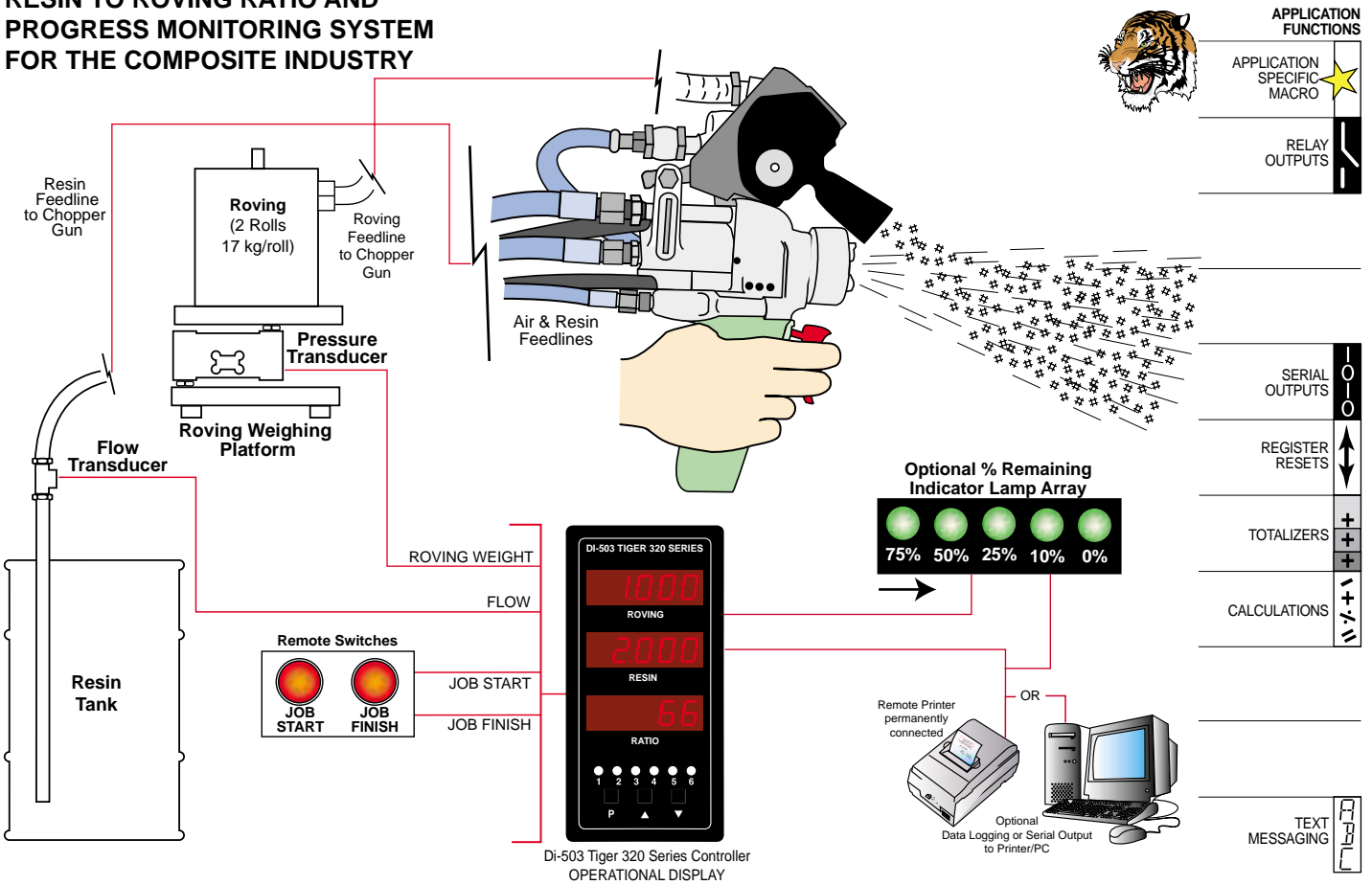
Our customer requires the amount of resin and roving used during their manufacturing operation to be calculated, monitored, and recorded on a job-by-job basis, providing them with accurate costing and stock information.

Texmate installed a Tiger 320 Series controller and connected it to the resin feedline flow transducer and the roving weighing platform pressure transducer.

The flow transducer measures the flow of the resin used, while the pressure transducer measures the weight of glass roving used. Both measurements are displayed on the controller. From these inputs, the controller calculates and displays the ratio of glass roving to resin used.

These figures can then be downloaded as a job recipe and used for future reference when the job is repeated.

**RESIN TO ROVING RATIO AND PROGRESS MONITORING SYSTEM FOR THE COMPOSITE INDUSTRY**



**What it Does.**

- Reduces Material Costs.
- Improves Daily Material Totals and Costs.
- Improves Quality.
- Monitors Wastage.
- Provides Consistent Layups.
- Maximizes Productivity Time.

**How it Works.**

The flow transducer measures the flow of resin used, and totals and displays the flow on the middle display of the monitoring controller.

The weighing platform measures the weight of glass roving being used and displays the weight on the top display.

The controller calculates the ratio of glass to resin and displays the ratio on the bottom display.

Pressing the remote DAILY RESET switch resets the controller at the end of each working day and resets the daily job number to zero. The controller sends the following data to a permanently

connected serial printer or computer.

- Daily resin totals used per system.
- Daily roving totals used per system.

Pressing the remote JOB START switch at the beginning of a job resets the totals to zero and adds 1 to the job number after each job.

The meter sends the following data to a permanently connected serial printer or computer.

- Date, Month, Year, Hrs:Min:Secs.
- Job number of the day.
- Resin target weight per job.
- Flow of resin used per job.
- Weight of roving used per job.
- Ratio of resin to roving per job.

Enter the target weight of resin for the next job into the controller. This function resets the % target resin remaining indicators.

Start the job, % remaining indicator lamps that indicate the resin remaining for the job at 75%, 50%, 25%, 10%, and

0% light up progressively as the amount of roving/resin decreases. The 0% setpoint can be used to activate an audible device or a cutout switch. The 10% indicator can be programmed to flash when activated.

When the job is completed, press the remote DAILY RESET switch. The controller is tared and 1 is added to the previous job number and you are now ready for the next job. The new resin weight is entered and the process is repeated.

**Options.**

- Setpoint 6 on the monitoring controller can be used to indicate the correct resin to roving ratio. This operates and indicates when the glass/roving ratio is within acceptable limits.
- Array of indicator lamps.
- RS-232 Serial Printer or PC.