



Success Story
Industry Segment: **Automotive**

Paint Shop Mixer Controller



The Customer

Our customer is one of the big names in Indian automobile industry, having 6 manufacturing plants. This is one of the 6 units spread over 236 acres in Tamil Nadu and houses finishing and assembly facilities including sophisticated painting facilities. The complex also houses one of the largest press facilities in India for pressing frame side members. Laid out with an eye for the future, this unit has won acclaim from several automotive experts.

The Application: Paint Shop Mixer Controller

The paint shop in an automobile manufacturing facility is among the most important processes. This is one core area which is generally not outsourced like many other components. At the Paint Shop, the key variable was the paint stored in a tank needs to be recirculated continuously in order to maintain consistency and reliability. Using a fixed speed pump was resulting in huge energy consumption, since this is a 24x7 operation; but it was clear that a well conceived variable speed operation could result in substantial energy saving. Since there are multiple painting lines, there is considerable scope for saving energy.

“We are happy with the reliability results the changeover brought to us.”

The Solution:

FCS solution components included:

- Variable Frequency Drives (VFD)
- Logic for achieving different speeds depending on the needs, which was different for each pump

The Challenge:

The logic was to run without any human intervention. But it also needed to be flexible considering the changing needs of the production requirements and the product used. It also had to be a totally reliable system any problem in the drive would cost material and production loss.

The Benefits:

- Energy saving of around 30%
- Better performance of and protection to the pumps

We also offer the following:

- Soft Starters
- Variable Speed Drives (VFD)
- Switch Mode Power Supplies (SMPS)
- Pressure Switches
- LCD Touchscreen Displays
- PLC and SCADA Software
- Complete Application Solutions
- Control Panels

For more information on any or all of these products, or to speak to our technical representatives regarding your specific application, please call or write to us at the address given below.