

## Proc case delivered a reporting application to track real-time manufacturing pipeline for a Japanese auto parts manufacturer

### Yachiyo of Ontario Manufacturing Inc.

Client since April 2001

Location: Barrie, Ontario, Canada

Industry: Manufacturing/Construction



### Client Overview

Yachiyo of Ontario Manufacturing (YOM) is the Canadian subsidiary of a Japanese auto parts manufacturer. YOM supplies parts to the growing list of Japanese automotive assembly plants in Ontario, Canada. YOM manufactures auto parts such as gas tanks, frame assemblies, and door hinges. Honda is the largest consumer of Yachiyo parts in Canada.

### Client Objectives

As with any manufacturing facility, the quest for efficiency and increased automation is a constant goal. YOM's facility was run by a number of Mitsubishi PLC's (Programmable Logic Controllers). However, for the most part the PLC's were being run in a stand-alone fashion. As part of a project to network the PLCs, Proc case was engaged to build a database system for data acquisition, storage and reporting. The system would be able to do historical reporting, shift end reports, and the data would be available for trend analysis and troubleshooting.

### Proc case Contribution

Proc case designed the data model and implemented the data acquisition programs that communicated with the PLC's. Challenges that were surmounted included dealing with performance issues surrounding the real-time acquisition of the data, and the real-time database inserts that this entailed. An Oracle Forms application was also delivered to configure the system and access the data. Oracle Reports modules were also implemented to satisfy YOM's requirements.

### Technology

Oracle database, Oracle Developer

### Results

Proc case had delivered a system that stored the relevant process data from the PLCs – valuable data that previously would have been lost. By automating data collection and reporting, the accuracy and timeliness of the reports were improved, and the operators no longer had to manually log many of their activities (such as production cell downtime) and production achievements (actual production counts, etc.).

Based on the success and usefulness of the application, Proc case was subsequently engage to enhance the system. New features were added to accommodate increasingly complex use of the PLC's, and enhanced interface to YOM's MRP system.