

# SUCCESS STORY

## VFD EASILY REPLACES OLD DRIVE FOR AIR TABLE BLOWER

### INFORMATION

#### Industry

Rubber and Plastics

#### Application

Air Table Blower

#### Product

Yaskawa GA500 Series VFD



Yaskawa AOI used to integrate GA500 drive into PLC environment on an air table

### COMPANY HIGHLIGHTS

The east coast based customer manufactures a wide range of automotive tires in both in the U.S. and internationally. Their expanding facility produces over 4 Million tires annually for various applications such as passenger cars, trucks, buses, and motorcycles.

The customer reached out to a Yaskawa distributor explaining that they were unhappy with the performance of a non-Yaskawa drive installed on one of their air blower tables.

### APPLICATION CHALLENGES

Rubber and plastic molding processes require specific operational sequences. Because of this, the customer's air blower table is controlled by a programmable logic controller (PLC). Any upgraded drive solution was going to need robust PLC integration. The company's engineers and technicians would need to feel confident implementing, using, and troubleshooting the new drive system.

### THE YASKAWA SOLUTION

Distributors and Yaskawa sales often work together closely on applications and to tackle this challenge, they collaborated to find a solution. They decided to leverage Yaskawa's PLC integration tools and replace the existing drive with a Yaskawa **GA500 Series Variable Frequency Drive (VFD)**. The customer used Yaskawa's custom written Logix Add-On Instruction (AOI) to quickly and easily integrate the Yaskawa **GA500 VFD** into the process control of the PLC. The customer was very happy with the level of control of and feedback from the **GA500 VFD** that this solution provided. The lead engineer reported that the integration went extremely smoothly.

To ensure all engineering and maintenance groups at the customer were familiar and comfortable with the new solution, the Yaskawa distributor and sales representative held a training to review the **GA500 VFD** and the PLC integration. At the end, all parties involved felt confident the new Yaskawa solution would help with process control and reduce issues that were previously leading to unexpected downtime.

The customer's satisfaction with the retrofit is evident in their plans to upgrade several more non-Yaskawa drives to **GA500 VFDs** on other air blower tables. They have also identified several other pieces of machinery using non-Yaskawa drives that they intend to upgrade with **GA500 VFD**.

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### CONTACT YASKAWA

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#### More GA500 Series VFD information:

<https://www.yaskawa.com/ga500>



#### Find a Yaskawa representative:

<https://www.yaskawa.com/support-training/support/sales-search>



### KEY GA500 FEATURES

The **GA500 Series VFD** is specifically suited for industrial applications that require unparalleled performance and extensive utilization of drive I/O capability. This particular model is the preferred choice because of its ability to overcome kinetic flywheel energy without external braking circuitry. Some of the many features include:

- The Overvoltage Suppression feature eliminates typical VFD faults related to the excess energy of overhauling loads
- Normal Duty and Heavy Duty ratings for use in variable torque and constant torque applications
- Stall Prevention & Torque Limit features to manage motor current to and machine stress to acceptable levels
- Capable of controlling various motor types, including induction, permanent magnet (both SPM & IPM), and synchronous reluctance motors
- The **GA500 Series VFD** allows programming without connecting main power by use of the DriveWizard Mobile application. Simply plug into one of your PC's USB ports or any USB on-the-go device and start programming
- All major communication networks are supported via a variety of option boards (RS-485 Modbus RTU is built-in as standard)
- Yaskawa's award-winning 24-hour technical support department is free of charge.

Contact Yaskawa today to learn more about how you can use Yaskawa AC drives to perfect your rubber and plastic industry applications!