

# SUCCESS STORY

## VFD EFFICIENTLY MANAGES HIGH-INERTIA STAMPING PRESS

### INFORMATION

**Industry**

Machine Tool

**Application**

Stamping Press

**Product**

Yaskawa GA800 Industrial VFD



*A properly tuned Yaskawa GA800 VFD overcomes regenerative energy in large stamping press applications.*

### COMPANY HIGHLIGHTS

The customer is a metal stamping business with several facilities operating throughout the U.S. and Canada.

### THE VFD APPLICATION

Thanks to a strong relationship, a Yaskawa Sales Representative discovered that one of his previous contacts was now the Maintenance Supervisor at one of the customer's operations. When Yaskawa reached out, the customer considered converting their press control from DC to AC drives.

The Yaskawa sales representative invited his contact to discuss this project alongside one of the customer's control engineers, who was leaning toward using non-Yaskawa drives. The discussions went well, and the customer was compelled to consider Yaskawa drives as an option.

During their discussion, opportunity, and timing led to an emergency need to replace a failed drive at one of the customer's locations.

### APPLICATION CHALLENGES

Yaskawa collaborated with a local distributor to send a 250-amp GA800 Industrial Variable Frequency Drive (VFD) on Friday before Labor Day weekend. The customer installed the drive and motor during the weekend and was set for commissioning on the following Monday, which happened to be Labor Day.

One of the distributor's engineers was able to be at the location for the Labor Day startup. With remote assistance from a dedicated Yaskawa Tech Support engineer, both worked through several drive settings to operate the press at the desired speeds.

By setting the GA800 VFD to Advanced Open Loop Vector Motor Control (AOLV) and enabling the Overvoltage Suppression feature, the engineer was able to fine-tune the GA800 speed regulation control loop. This adjustment, made possible by Yaskawa's enhanced features, allowed the press to operate at the desired speeds, saving the customer from the need for additional costly dynamic braking hardware.

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### CONTACT YASKAWA

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#### More GA800 Industrial VFD information:

<https://www.yaskawa.com/ga800-drive>



#### Find a Yaskawa representative:

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



### THE YASKAWA SOLUTION

The customer was impressed by Yaskawa's ability to provide a replacement drive quickly and by the collaborative effort of Yaskawa technical support and the local distributor's startup support during a holiday weekend. The customer has since committed to using Yaskawa drives as their corporate standard, stating that the Yaskawa **GA800 VFD** has significantly improved their press control and reduced downtime.

### KEY GA800 FEATURES

The Yaskawa **GA800 Industrial VFD** brings a set of notable advantages:

- Standard control inputs which include eight digital, three analog, two safe torque off, and one pulse
- Standard monitor outputs include four digital, two analog, one pulse, and a 24 Vdc supply
- A high-resolution keypad equipped with a real-time clock, copy and backup functions, and micro-SD storage for fault history storage
- Normal Duty and Heavy Duty ratings for use in variable torque and constant torque motor applications
- Stall Prevention & Torque Limit features to manage motor current and machine stress to acceptable levels
- Capable of controlling various motor types, including induction, permanent magnet (both SPM & IPM), and synchronous reluctance motors
- Global certifications such as UL, CSA, CE, TÜV, EAC, RCM, KCC
- Yaskawa's award-winning 24-hour technical support, free of charge

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