

Robotics

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As it appears in the Agust 2007 issue of Design World.
Photo courtesy of Yaskawa.

Drive assembly run by robotics

Yaskawa Electric America (YEA) is changing the way in which it manufactures its drives. The company is beginning with a new assembly process for the V1000-series ac micro drives. Production equipment being installed this fall will contain more automation, including MOTOMAN robotics. The drives will be manufactured by robotics cell production, a process capable of producing three million units per year. That's more than a 50% increase compared to traditional methods. Additionally, they meet the regional needs of Europe, North America, and Asia.

They are ROHS compliant nd have an

EN954-1



The drives'engineers applied for over 100 patents before finalizing this configuration.

motor control, and a small size.

The drives control 1/8 to 25 hp motors and come with maintenance monitors, on-line tuning, and application presets. Because of a compact inverter, they stack side-by-side if necessary. They have a platform design for easy custom hardware and software options; and easy installation, start-up, maintenance, and replacement.

What's more, they save energy, especially when used for HVAC air handling duties, and they operate with near-servo precision, ensuring all motion controls are running efficiently.

Yaskawa Electric America Inc.

www.yaskawa.com

So Small yet so Powerful Some Suspect the New V1000 of "Juicing"

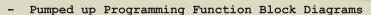


Investigative Report

Performance Enhancing Suspect: Yaskawa V1000 Drive

Suspicious Features:

- Over-enlarged 1/8 to 25 HP Range
- Record Speed 2ms Scan Cycle
- Embedded Modbus Communication up to 115 kbps
- Fail Safe EN954-1 Safety Category 3 Rated
- Powerful Open Loop Current Vector Control



- Below Normal Panel Usage with Side-by-Side Mounting
- Split Personality Normal Duty and Heavy Duty Ratings
- No Toxicity Environmentally Friendly RoHS Compliant



