JASA relies on a modular SIMOTION approach
A motion control platform for high performance and flexibility

JASA Packaging Systems B.V. has over 25 years of experience in developing and manufacturing a range of packaging machines. Working with a worldwide network of dealers, the company specializes in vertical form, fill and seal machines used for packing bulk goods in bags with film from a reel. The machines are particularly well suited for packing fragile products in the food industry. Thanks to a special seal system, they are able to process all types of heat sealable films. JASA asked Siemens to help develop a new and innovative packaging machine. Siemens provided key assistance to ensure that it meets expectations in terms of operational quality, reliability and functionality.

Modular design
The servo-controlled continuous machine can produce up to 120 packages per minute, including common features such as side-infolds, block bottoms, doys and handles. Thanks to its modular design, the JASA 350CM is very easy to disassemble. All machine parts are conveniently accessible and can be interchanged. For example, the seal system can be completely replaced, if necessary. The machine is ready for other options that can be added later.

Flexibility
The highly modular system is the result of innovative ideas, classical problem solving strategies, standardized mechanical engineering and individual configurations. The continuous and intermittent vertical form, fill and seal machines both use the same hardware and almost identical software. The key advantage? JASA is able to configure and program logic, motion control and visualizations on one and the same software platform. The complete integration of the SIMATIC HMI system configuration, including SIMATIC WinCC flexible with the SIMOTION SCOUT engineering system for the logic and motion control, has eliminated time-consuming tasks such as replugging and the need to reload separate projects. The engineering has been greatly simplified, thereby saving time. Also, working with the graphic support of the SIMOTION SCOUT is fast and user-friendly.
Time to market

Thanks to the Siemens SIMOTION software library (OPL Software Toolbox) and the "hands on" support of the Dutch Application Centre, the machines were ready for use in record time.

Total cost of ownership

Application of the Totally Integrated Automation (TIA) concept from Siemens also positively impacted the total cost of ownership. Standardized interfaces and operating modes enable easy integration of line representations and production data into higher-level systems. Line expansions are easily performed, while overall costs are greatly reduced.

Hendrik van den Berg, head of engineering at JASA:

"The collaboration of JASA and Siemens engineers helped us create the smooth running and reliable JASA 350CM. I am proud of the machine we have developed and glad we chose Siemens for the control platform, on which we can continue to build in the coming years."

Highlights:

- **Hardware modularity:**
  Highly scalable hardware platforms for Motion Control Systems, SINAMICS Drives and SIMATIC HMI

- **Software modularity:**
  SIMOTION with OPL Software Toolbox

- **Support & consistency:**
  Worldwide local support and availability of spare parts

- **Energy efficiency:**
  Highly optimized energy consumption

Technical data:

SIMOTION motion control, SINAMICS servo drives, SIMOTICS motors, SIMATIC HMI & I/O

JASA Packaging Systems B.V.
Hazenkoog 14
1822 BS Alkmaar
Netherlands
+ 31 (0) 725612700
www.jasa.nl

Siemens AG
Industry Sector
Motion Control Systems
P.O. Box 31 80
91050 ERLANGEN
GERMANY

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