



Demag / Van Dorn Solution

JVH Engineering has designed a controls platform utilizing Bosch Rexroth closed loop controls in conjunction with Rockwell Software® and an Allen-Bradley CompactLogix® system. This platform has been used to create a predesigned solution for Demag/Van Dorn injection molding machines. These tested solutions use the most up to date Allen-Bradley® technology along with customer specified Rockwell Software® to allow for ease of use. All our solutions are designed with the intent of delivering a turnkey control design that allows for full customer manipulation.

Due to age and advances in technology control systems on Demag/Van Dorn's, original or Pathfinder upgrades, are very flawed and out of date. These old systems make operating and maintaining such a nightmare for customers that they are usually left contemplating between fixing or replacing these machines. That is where the JVH Engineering controls solution come in. Purchasing this solution will fix the original flaws of your machine, while receiving full service and support from JVH Engineering on all controls needs.

Our solution is comprised of a full control upgrade as well as an optional servo valve replacement. The new cost-effective proportional valves will deliver fast, smooth, and quiet machine operation. Upgrading from the old control system to a new CompactLogix® system will also improve barrel and mold temperature response, creating a more repeatable production process.

*For all quotes and support please visit www.jvh.com to fill out the free quote form or email our team at:

Quotes@jvh.com

Support@jvh.com



Solution Features



Pre-designed Solutions

- Husky® E-Line
- Husky® D-Line
- Husky® G-Line
- Husky® Quadlock
- Husky® Tandem
- Demag / Van Dorn
- UBE Max Toggle
- Cincinnati / Milacron®

Feature 1

Ethernet Communication - Faster machine communication and full machine connectivity to data collection systems

Feature 2

Allen-Bradley VersaView® - Touch screen HMI equipped with a solid-state hard drive

Feature 3

Bosch Rexroth HACD - High performance HACD used for improved mold and injection control.

Feature 4

Digital Sensors - Digital position sensors for more accurate, noise free, repeatable position control with instantaneous velocity feedback.

Feature 5

Valve Replacement - This optional feature replaces the Vickers East vales to provide high response stock proportional valves that not only increase control but reduce spare parts costs. *Recommended

Feature 6

Faster Cycle Times - JVH has improved mold break to allow for matched or faster cycle times.

Feature 7

Repeatability - Mold position will now be more repeatable.

Feature 8

Part Consistency - High response injection control for exceptional part consistency by adding a new 10 segment injection fill velocity profile, 5 segment ramped hold profile, and 3 segment recovery profile with closed loop backpressure and screw RPM.

Feature 9

Setpoint tracking - Keep track of all changes made to your machine with the new JVH setpoint tracking feature.

Feature 10

Process Logging - This feature will allow for reduced setup time by saving every process while also allowing for process comparison.

Feature 11

Integrated Core Control - Advanced cores features that allow for full core manipulation without having any external control systems.

Feature 12

Integrated Sequential Valve Gates - This optional feature will allow for full sequential valve gate manipulation without having any external control systems.

Feature 13

Integrated Mold Heat Control - This optional feature will allow for full mold heat manipulation without having any external control systems. *Additional PLC may be required depending on number of mold heats

Feature 14

Safety Upgrade - This optional feature will upgrade the PLC to an Allen-Bradley Compact GuardLogix® PLC and update the safety system to your desired standard.

Feature 15

RFID Login - This optional feature will upgrade the HMI to allow everyone to skip the standard login procedure by simply swiping their card.

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