



UBE[®] Toggle Press 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 UBE[®] Toggle Press 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.

Many Ube[®] Toggle machines are still running on outdated controllers such as PLC-5 Controllers[®]. These controllers can still work but running machines with outdated controllers can cause many issues. That is where the JVH Engineering controls solution comes in. Purchasing this solution will upgrade the controller, moving your recipe storage from the HMI to your machine's controller, 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 position sensor replacement and a modernized HMI. Upgrading from the old control system to a new CompactLogix[®] system will also improve clamp and screw control along with barrel 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 customer 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

Repeatability - Mold stroke position along with screw velocity and pressure will now be better controlled and more repeatable.

Feature 6

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.

Feature 7

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

Feature 8

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

Feature 9

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

Feature 10

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

Feature 11

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 12

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