Italtech Retrofit 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 the Italtech injection molding machine. 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 full customer manipulation.

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. The Logix based controllers use an enhanced PID algorithm to provide low cost heat/cool loops. JVH's custom configured motion control supplies precise clamp and injection control.

Not only does a JVH control solution provide one of the highest performing systems available today, but we also empower the end user with the tools needed to effectively modify and customize the hardware and software to make the machine control system infinitely flexible and fully scalable.

*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

Predesigned 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
HMI Replacement - Allen-Bradley VersaView® touch screen equipped with a solid-state hard drive along with physical selector switches for machine motions.

Feature 3
Bosch Rexroth HACD - High performance HACD used for improved mold stroke, injection control.

Feature 4
Digital Sensors - Digital position sensors for more accurate, noise free, repeatable position control and instantaneous velocity feedback.

Feature 5
Part Consistency - High response injection control for exceptional part consistency by allowing up to 10 segments of injection fill velocity profile, 5 segment ramped hold profile, and 3 segment recovery profile with closed loop backpressure.

Feature 6
Valve Replacement - This optional feature provides high response proportional valves with feedback. These stock valves increase control and troubleshooting capabilities while reducing spare parts costs. *Recommended

Feature 7
Repeatability - Mold stroke position will now be more repeatable along with injection velocity and transitioning.

Feature 8
Multi-Level Security – Machine operators can be assigned security clearance based on customer preference.

Feature 9
Setpoint tracking - Keep track of all changes made to your machine with the new JVH setpoint tracking feature. Combined with RFID login provides exceptional security piece of mind.

Feature 10
Process Logging - This feature will allow for reduced setup time by saving every process while also allowing for process comparison.

Feature 11
Compact Power Supply- Modern compact power supply's provide a cleaner supply for the analog inputs and outputs, as well as taking up less cabinet space.

Feature 12
Barrel Heat Contactor- This optional feature provides a higher level of safety by allowing the barrel heat power to be cut off via PLC control. *Recommended

Feature 13
Integrated Sequential Valve Gates - This optional feature will allow for full sequential valve gate manipulation without having any external control systems.

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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