



WHAT IS IMFLUX?

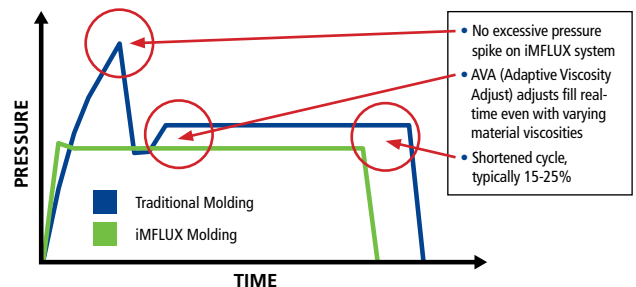
The iMFLUX processing system is now an option on electric and servo-hydraulic machines from Absolute Haitian. iMFLUX is a new method of controlling how the plastic is injected (fill/pack/hold) into the mold. Instead of controlling injection based on velocity, the iMFLUX process controls injection based on plastic pressure at the nozzle.

HOW DOES IT WORK?

Counterintuitive to most traditional molding logic, the iMFLUX system's revolutionary process injects at a slower and consistent rate versus traditional molding. Typically, this would cause the part to freeze off early or slow down cycle time, but by controlling injection by pressure the process is able to pack and fill simultaneously without issue. iMFLUX enables processors to mold the same parts in the same molds but with significantly less required plastic pressure, reduced cycle times and automatically adapts to material variation (virgin, regrind, colorant, etc.)

CAR ANALOGY:

Think of a car driving up a steep dirt road. A two-wheel drive car (traditional injection) will need to increase speed and will experience slippage on the back tires. A four-wheel drive car (iMFLUX) will climb at a slow and steady rate. Both will reach the top, but the four-wheel vehicle will be noticeably more efficient and controlled.



HOW HAS THE MACHINE CHANGED?

A pressure sensor is added to the nozzle of the machine which feeds high-speed real-time pressure data to the iMFLUX system. That data feeds into the powerful iMFLUX control system which allows processors to adjust, monitor and toggle on/off the system with ease.



HOW IMFLUX HELPS MOLDERS INCREASE PROFITS AND IMPROVE PART QUALITY:

Decreases clamp and injection size requirements... you can purchase a smaller machine for the same job!

- 20-50% reduction in required plastic pressure
- Significantly less tonnage needed to maintain clamp lock-up
- Allows for an overall smaller injection unit size
- Increases screw & barrel options
- Allows for decreased sprue/runner size
- Allows for more cavities per tonnage
- Reduces overall energy consumption
- Increases mold longevity
- Stronger weld lines and reduced warp
- No need to overpack at gate to maintain pressure, which can reduce part weight

Auto-adaptive control allows for seamless processing of wide-spec material, varying regrind, material substitutes, color changes and more!

- Automatically adjusts to shifts in material viscosity, even mid-cycle
- Lower and more uniform material stress
- No flow hesitation prevents freezing, allows for higher L/T
- Improves thin-walled and family mold capabilities
- Reduces flow lines and other defects
- Reduces scrap rates
- AI adaptive control reduces need for operator inputs/corrections
- Reduces cycle times (5-15% avg., via 97 different molds)

Absolute Haitian

216-452-1000 • 508-459-5372

www.absolutehaitian.com • info@absolutehaitian.com