Hylelectric® 4.0
Making the best machine platform better
Husky is a leading global supplier of manufacturing solutions and services for plastics processors. We design, manufacture and integrate the industry’s most comprehensive range of injection molding equipment, including machines, molds, hot runners, auxiliaries and integrated systems.
Upgraded, high performance solution to serve a variety of markets

The Hylectic® 4.0 machine platform has been designed with the needs of our customers in mind. Based on the industry-leading Hylectic® platform, this new updated machine includes all of the standard features and configurations of the previous generation, with added capabilities to improve connectivity, control, energy management, and provide a simplified operator experience.

Hylectic® 4.0 is designed for maximum productivity at the lowest total cost of ownership. Since the original Hylectic® machine’s launch, the platform has undergone extensive improvements to provide higher output, greater reliability, reduced maintenance and improved uptime.

Benefits

Higher productivity
- Faster clamp
- Improved plasticizing
- Wider tiebar spacing
- Ideal platform for stack molding
- Improved connectivity and networking
- Updated control system for better repeatability

Improved Energy Management
- More precise energy management
- Energy usage tailored to needs of specific applications

Longer mold life
- Reflex™ platens
- Excellent mold alignment
- Lower tonnage requirements
- Industry-best superior mold protection

Better part quality
- Precise shot-to-shot accuracy
- Microsecond CPU scan rates
- Grease-free molding area

Operator friendly
- Windows®-based controls
- Integrated HMI for third party equipment
- Large, well-lit molding area for easy access
- Improved connections, including USB

Hylectic® 4.0 machines have a variety of standard configurations of clamp and injection modules that can be combined to design the ideal solution for a variety of markets including:
- Caps and closures
- Thinwall packaging
- Industrial containers/pails
- Cosmetics/personal care
- Medical
High productivity and longer mold life

Clamping force is directed to the molding area by the center clamp column and then redistributed evenly across the entire mold face by Reflex™ platens.

The Hylectric® 4.0 machine consistently delivers cycle times that are 15-30% faster than competitive machines in mold tests. Wide tiebar spacing combined with Reflex™ platens offer better tonnage utilization and often allow molders to select a smaller clamp size.

Higher performance, lower operating costs
In today's globally competitive business environment, solutions targeting lowest part cost are essential. The Hylectric® 4.0 machine helps maximize the output of molds and improves operating costs.

Hylectric® machines provide:
• Improved connectivity
• Precise energy management
• Greater networking capabilities
• Higher output
• Ease of use
• Clean operation
• Greater reliability
• Reduced maintenance
• Improved uptime

Longer mold life
Most molders have more invested in tooling than in machinery. The Hylectric® 4.0 machine was designed to extend regular maintenance intervals and prolong the life of molds.

• Reflex™ platens distribute clamping forces evenly across mold mounting surfaces, which can reduce tonnage required by up to 50%
• Mold protection sensing occurs under mold stroke force at only 2% of full tonnage
• Clamp design delivers true closed-loop tonnage control to reduce cycle variations, over-tonnage or flash during start-up
• Enhanced shutter cylinder design enables overlapping of clamp lock and clamp up motions to reduce dry cycle
• Placing the clamp beams outside the tiebars increases clamp stiffness, improving support for heavy molds and reducing mold wear

Improved part quality and efficiency
Overall productivity is not only influenced by speed and cavitation. Yields are also increased with better part quality, which can be achieved through machine design and performance.

Better control and connectivity
• Microsecond scan rates on CPU, high performance servo valves and true closed-loop control for greater control, increased performance, and improved shot-to-shot repeatability
• Shotscope™ NX enabled, with Industry 4.0 networking enhancements to allow for greater connectivity, better data collection and optimized productivity

Cleaner molding area
• Moving platen rides on sealed bearings rather than on tiebars, eliminating grease in the molding area
• Increased tiebar spacing and wide stance platen support, reduces part contact with the machine
Reduce energy cost
The Hylectric® 4.0 machine combines the efficiency of an electric screw drive with the speed and pressure of hydraulic injection. This provides the best of both worlds:

- For high performance applications, approximately half of a machine’s energy consumption goes into the plasticizing of resin
- With an electric drive for plasticizing and the use of accumulators, the size of the hydraulic powerpack is reduced significantly. Since not all machine motions are simultaneous, power from the hydraulic powerpack is shared among all axes, while all-electric machines require individual motors for each axis
- Hylectric® 4.0 features tailored energy management, based on each individual application, ensuring optimum energy usage with less waste
- Husky helps customers achieve maximum Overall Equipment Effectiveness (OEE) by improving operating efficiency and conserving energy. Husky can conduct a detailed plant and operational assessment to identify opportunities for improvement. The goal of the assessment is to analyze existing operations, establish current factory efficiency, then quantify opportunities for improvement.

Global Service and Support
Husky is committed to providing unparalleled service and support. In addition to producing the most robust machines and high-performance systems, we also provide delivery and documentation, start-up service at the customer site, troubleshooting, advisory services and extensive training. Also available to our customers are our Altanium® temperature controllers which come equipped with an intuitive touch-screen interface and provide two to 255 zones of control.

Our mold and machine manufacturing facilities help customers bring products to market faster by providing manufacturing flexibility and the capacity to handle projects of any size in a quick and timely manner. Each location is equipped with state-of-the-art technology and equipment, enabling machines and tooling to be produced independently in all locations, with the same high level of quality.