Encore™ Program
Improved productivity, flexible enhancements, prolonged asset life
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.
Providing technology upgrades to improve performance and extend the productive life of your Husky equipment

The Husky Encore™ program offers structured upgrade solutions to extend the life of existing Husky injection molding systems. New injection molding equipment and technology advancements provide performance and economic advantages over older legacy systems through higher output per capital invested, as well as lower energy and processing costs. However, upgrading existing amortized equipment can be part of a balanced and comprehensive strategy to machine fleet modernization. Upgrading and enhancing these systems will result in lower overall manufacturing costs and ensure continued competitiveness.

The Encore™ program consists of two areas of focus, maintenance and performance. Both lifecycle strategies help manage aging assets within your business horizon.

Benefits
- Reduced manufacturing costs
- Increased output per capital invested
- Reduced maintenance spend
- Improved energy utilization
- Prolonged equipment life
- Improved part processing
- Improved reliability and availability of equipment
- Capability of higher cavitation
- Increased productivity
The Maintenance Series

The Maintenance Series addresses maintenance and reliability issues associated with older Husky equipment that is becoming prone to performance deterioration and unplanned downtime due to part failures. G-series and Index machines are typical candidates for this entry level program. The Maintenance series can be configured to replace obsolescence with the latest Beckhoff HMI, new generation servo valves, upgraded IPC, and PowerMate–H or PowerMate–D technologies. Cycle times and system performance will remain as before.

Benefits of the Maintenance Series
- A modular architecture that allows integration with various catalog upgrades.
- Pre-engineered solutions for fast delivery and field installation
- Addresses key parts obsolescence to prevent significant unplanned downtime where replacement legacy parts have longer lead times or are unavailable (e.g. HMI and PowerMate–H)
- New replacement parts are much more reliable than the worn originals, therefore improving system reliability
- New replacement parts are less costly than originals
- New replacement parts can allow for some cycle time improvements, faster motions, and improved process control, when the Maintenance Series is combined with new servo valves and drives

Polaris Control via Encore™
The Encore™ program addresses a significantly higher number of maintenance and reliability issues than the standard Maintenance Series program. Encore™ upgrades include technology (e.g. Polaris Control and servo valves), which enables improved machine performance. This program is also ideal for systems where faster cycle times or better than “as new” performance is desired without the need for increased cavitation.
Encore 1.2

Encore 1.2 (for X–PET, X and G–RS, X and G–PKG machines) is targeted at improving existing system performance to better than original condition. The program addresses significantly more control obsolescence, maintenance and reliability issues than the Maintenance Series program. Encore 1.2 upgrades include the latest "state-of-the-art" technology (e.g. Polaris control) which effectively modernizes existing equipment and enables improved performance. The program involves re-working the main electrical cabinet; and, for PET machines, replaces the robot cabinet to include the latest motors and drives. This series is suitable where faster cycle times or better than “as new” performance is desired without the need for increased cavitation production. For X-series machines, Encore 1.2 addresses Siemens–based platform obsolescence.

Benefits of Encore 1.2:
• Polaris Control allows for enhanced features and future capabilities
• Replaces obsolete and difficult to maintain clamp and stroke valves with the latest servo valves
• Improved reliability with reworked electrical cabinet
• New stand-alone integrated robot cabinet for PET applications
• New robot servo motors and drives to manage spare parts obsolescence issues with obsolete control components
• Shotscope™ NX connect ready (software, hardware, and license required)
The Encore™ Program

Encore™ Program

Encore 2.0 (for G–PET machines) builds on the technology upgrades found in the Encore 1.2 program. The program moves toward HyPET HPP5 control architecture by implementing a 19” HMI that is based on the Windows 7 operating system. Encore 2.0 is for G–PET systems; and fully addresses GE-Fanuc-based part obsolescence. Working within the .NET environment and an EtherCAT bus communication framework, the program delivers closed loop control of the clamp, stroke, ejector, and injection functions. This results in a faster non-process time, with greater cycle-to-cycle consistency. Increased cavitation production can be addressed by adding the option of a new HyPET style electrical cabinet.

Features of the Encore 2.0 Series

- Can significantly improve system performance, cycle times, energy utilization and system reliability. This program and its options can address all maintenance and reliability issues associated with older Husky G–PET equipment
- Includes Polaris™ Control similar to HyPET™ HPP5 machines enabling a familiar interface found on newer Husky machines with advanced features like SPC/SQC, ServiceLink™ and Shotscope™ NX
- Program is customized to provide upgrade solutions that are flexible in design. This improvement on performance and return on investment is based on the specific machine configuration, condition, and application requirements
- Implementing this type of program can significantly improve current equipment with new technology, as it may qualify for local modernization or environmental incentives
- Addresses all of the critical parts reliability and obsolescence issues addressed by the Maintenance Series

Benefits of Encore 2.0 for G–PET

- HPP5 like control and communication
- Cycle time reduction (up to 1 sec)
- Improved process control and part quality
- Energy savings via PowerPro–G (up to 12% measured)
- Faster communication and greater cycle-to-cycle repeatability
- Closed loop control with self-tuning of servo valves as standard
- Up to 50% more output capability
- New cabinet and high cavitation options
- EPP, Advanced Process Optimization, Pro–Act, and Upgrade options
The Encore™ Advantage

The Encore™ program is a Husky certified OEM solution, ensuring equipment safety, reliability and serviceability going forward. A fully modernized system through the Encore™ program improves system value and competitiveness. Husky offers a complete solution by examining the system as a whole.

Husky can also provide ongoing services, such as Pro–Act™ maintenance contracts, and process optimization, to help keep this equipment running optimally.

Husky proactively looks for upgrades on legacy equipment. Encore™ programs are structured modular programs to maximize customer value over time. Encore™ upgrades may also be eligible for local modernization incentives.

We strongly recommend that a system audit, which includes a machine and/or tooling audit, be done prior to any upgrades being applied. This audit will also help to ensure that all issues or upgrade opportunities are addressed when implementing the Encore upgrade package. The thorough evaluation of machine condition provides a benchmark of the current system performance over which improvements are achieved with the program. This benchmark data is needed where government programs, such as environmental or modernization incentives, are being applied for.

Key information required for a proposal:

- Program type: Maintenance Series, Encore 1.2, Encore 2.0
- Machine type, model number and serial number(s)
- Application information, including:
  - Part information, such as preform weight, wall thickness, finish, shape
  - Tooling cavitation
  - Current cycle times and mold serial numbers, optional
- Equipment location: country and city
- List of any known issues and special considerations to address specific concerns

Contact your local Business Advisors from Husky today for more information on our Encore™ program.
Please recycle. 17-035 August 2017