Altanium® Servo Control

The injection molding industry is trending towards the electrification of movements in the mold.

Electrification is replacing hydraulic or pneumatic actuators with servo motors. Servo control provides greater precision and control of movement, which reduces mechanical stress and increases mold life. It also gives instant feedback if something goes out of spec so operators can react before damage to the mold occurs, or part quality is compromised. Additionally, servo control is cleaner and more energy-efficient than traditional methods of mold actuation. Altanium® servo control offers all these benefits and more:

- Includes full engineering support for sizing the servo motor to the application and defining the signal interface to the injection molding machine
- Includes global startup support and training for faster mold qualifications and smoother integration into production
- Compatible with a variety of motor types, making it easy to repurpose for different molds

Servo Home Screen

Motion Profile Screen

Configurations		Stack	Length (L)	Width (W)	Height (H)
Standalone		1 Stack	512mm/20.2"	560mm/22"	1260mm/49.6"
		2 Stack	739mm/29.1"	560mm/22"	1282mm/50.5"
Integrated		1 Stack	739mm/29.1"	560mm/22"	1282mm/50.5"
		1 Stack	1096mm/43.2"	560mm/22"	1282mm/50.5"

Features

Available with integrated hot runner control, UltraSync®-E control and Individual Servo Valve Gate control	Save cost and time by controlling multiple aspects of the process using a common operator interface.
Motor parameter download	Downloading motor parameter files directly from the operator interface allows the controller to be easily repurposed for use with different molds and motor configurations.
Common operator interface	Altanium® servo controllers utilize the same operator interface providing user commonality across all applications, increasing operator acceptance, and reducing training costs while ensuring faster and more accurate startups.
Highly flexible signal interface	Configurable I/O provides the flexibility to connect the controller to any number of available signals on the IMM or mold, allowing it to be compatible with existing interface standards, reducing expensive upgrades.
Global startup support	On-site and remote support from Husky® motion control experts around the globe ensures mold qualification and transition to production is as smooth as possible by providing IMM interface guidance and servo fine-tuning as well as comprehensive training, so all users are comfortable with the operation of the system.
Sourcing of motors, actuators and gearboxes	Allowing Husky® to source and ship the appropriate motors, gearboxes, or actuators with the controller simplifies the purchasing process by reducing paperwork and ensuring the controller arrives on time and integrated out of the box.
Standardized control platform	Using the same control hardware across the complete product line reduces maintenance training, spare parts inventory, and overall cost of ownership.
Data collection and change tracking	Collecting process data and user changes provides instant access to motion performance for troubleshooting and part quality tracking.

Option

Hot Runner Control	Includes hot runner temperature control for up to 254 zones
UltraSync®-E Control	Includes one or two axes of UltraSync®-E control for low or high cavity configurations
Individual Servo Valve Gate Control	Includes 4 or 8 axes of individual servo valve gate control
Analog Inputs	Includes 8 analog (0-10v) inputs and a 6m/20ft field cable

Technical Specifications

Operator Interface	Matrix6® 22" Full HD Color Touch Monitor
Configurations	1 Stack, 2 Stack or 3 Stack (Size is determined by quantity or servo axes, required signals and drive type)
Mold servo axes	6
Other servo axes	1 or 2 for UltraSync®-E, 4 or 8 for Individual Servo Valve Gate control
Motion type	Linear and rotary (modulus and relative)
Digital Inputs (User Configurable)	10 (Standard for 1 stack configurations), 26 (standard for 2 stack and 3 stack configurations)
Digital Outputs (User Configurable)	6 (Standard for 1 stack configurations), 15 (standard for 2 stack and 3 stack configurations)
Analog Inputs (User Configurable)	8 (0-10v) Available on 2 and 3 stack configurations only (paid option)
Safety Signals (Dedicated)	Two channel Safety Gate and E-Stop safety relay circuits
Machine Interface	Customer defined (Husky® std, EM67, EM74, etc.)
Drive Size	6A – 60A continuous (18A – 120A peak), Typical motor rating 3.2kW – 32.4kW (4.2hp – 43.4hp)
Supply Voltage	3-PH + Earth (4 wire) 200-240 VAC 3-PH + N + Earth (5 wire) 380-415 VAC, Other voltages require an input supply transformer

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