

The SilcoStar e-Flow system has been added to the company's range of SilcoStar LSR metering and mixing equipment. The servo electric LSR metering system provides strong pumping power for a large durometer range of LSR viscosities processes with precise optimal shot repeatability and process control. The SilcoStar e-Flow technology is very quiet and is clean-room compatible for the strictest of medical application processes. The servo electric gear system design and software controls secure a precise 1:1 mix ratio or allow variable LSR mix ratio needs in a closed loop concept. Features include a new frame design footprint with integrated floor rollers for easy-on LSR drum changes and innovative concepts to provide minimal LSR material waste. The new system is operator friendly with the typical SilcoStar operator buttons, and comes standard with an operator touchscreen and PLC based software that provides optimal precise dosing control of color and additives. Options for the SilcoStar e-Flow 55 gallon LSR drums metering and mixing system include five gallon aluminum follower plates, a water cooled mixing head and the capability to dose two separate injection mold machines or run in a 24 hour non-stop production process.

2KM North America
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Vacuum Indexing Cut-To-Length System

A precision single surface indexing system has been designed for feeding and cutting flexible materials to length. This is said to be ideal for applications where material can only be contacted on one side. A unique vacuum transfer system is controlled by a servo motor. For reliable clean cuts, a Sur-Cut modular knife assembly cuts the material to a high accuracy of $\pm 0.01"$. The unit can be a slave to a process by creating a loop from the end of the process, or an unwind can be added for materials on a roll. Optional takeaway conveyors make it simple and easy for the cut product to be handled by operators or placed into stacks automatically. The entire unit is free standing. The vacuum generator is totally enclosed and quiet. A simple to operate color touch screen is mounted on a remote arm for easy access. A fiber optic eye registration system is available.



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Extruder Gear Pump Systems

Gear pump systems from the company consist of a single screw extruder in conjunction with a gear pump. The extruder is used to achieve effective plasticization of the compound while ensuring sufficient feeding to the gear pump. The volumetric gear pump delivers a very precise, predictable and repeatable output. For example, this allows the company's gear pump systems to produce highly accurate rubber preforms utilizing a fully integrated cutter. Since a high degree of process flexibility is attained by driving the gear pump and extruder separately, the firm's gear pump extruder systems can also be used as a strainer during preform production. Additionally, the company has developed a superior final mixing process using its Shark single screw extruder mixing technology (MCTD) coupled with a gear pump. The total output control of the final mix process is provided by the volumetric operating gear pump, while the mixing is accomplished in the Shark Transfermix extruder. Due to the variable screw speed of the Transfermix extruder, mixing efficiency can be easily optimized for each compound. Chemical dosing is provided by gravimetric operating loss-in-weight feeders. Customers are said to have confirmed that the Shark final mixing process significantly improves the compound quality (vulcanization characteristics), while also reducing production costs as compared with a typical batch mixing process. Using the exclusive Shark gear pump extruder platform, the company has developed several multifaceted systems that are capable of final mixing, straining, profile and perform production, all in one continuous non-stop operation. Optional vacuum has also been supplied where degassing of compounds is required.

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