

Precision Blending / Formulation System – Batch to Continuous

Digital control of blending for brand consistency

The system: the skid was designed to test the consistency of various products formulated using continuous rather than legacy batch formulation techniques. This is a highly featured, full scale R&D unit the customer is using to examine the feasibility of migrating multi-product manufacturing from batch to continuous processing.

The skid is constructed with unique features – such as serpentine/reconfigurable mixing zones. The generous layout of the unit allows the R&D staff to optimize the design to the ultimate production manufacturing system layout. Further, the system is explosion proof to allow ultimate flexibility in the type of product components to be trialed.



Photo: the system layout allows the R&D staff to optimize the design to the ultimate production manufacturing system.

The concern: Globalization of consumer goods places additional attention on brand consistency when products are manufactured in multiple locations. Variability can cause decreased user satisfaction and higher costs.

LEWA's advantage: LEWA pumps have been at the forefront of precision metering for decades. Now combined with digital control both batch-to-batch and continuous production can achieve up to 99.9% precision in blending multiple components. Uniquely designed with digital "[intellidrive](#)" controlled pumps exclusive to LEWA, this system is anticipated to enhance global manufacturing flexibility while furthering brand loyalty in a growing household name.



Photo: the system features heat tracing and LEWA metering pumps to deliver precise flows over wide viscosity ranges.

Working Together: This R&D development platform system was developed in concert with a leading global consumer product company. This system was engineered, manufactured and automated by LEWA (Process Technologies). It is designed to formulate an array of unique products with varying viscosity, component concentrations and temperatures -- all to an exacting reproducible standard no matter what company location or contract manufacturer.



Photo: the system features clean in place (CIP) and explosion proof controls.

For more information contact:

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More on formulation systems by LEWA:

<http://lewapt.com/solutions/formulation-systems>

About LEWA:

LEWA, through its LEWA Process Technologies unit, provides custom engineered purification and fluid management technologies and services that are shaping a new age in advanced manufacturing. Our broad expertise in process innovation and user adaptable software architecture helps our customers to deliver quality and cost effective engineered solutions. LEWA GmbH, LEWA Process Technologies and Nikkiso, Corporation are aligned to leverage the global sales and service and fluid dynamic innovations of these multi-national leaders in fluid dynamics and precision pumps.

Our history of engineering design services, automation, piping and custom manufacturing enables customers migrate from batch to continuous processes. Headquartered in Devens, MA, LEWA Process Technologies is a unit of LEWA GmbH and its parent NIKKISO CO., LTD. Nikkiso & LEWA employees which number over 5000 are committed to serving our customers in more than 100 countries. For more information about LEWA, visit our website at www.lewapt.com.

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