

## Press release

### Digitally optimized injection molding from one single source

The new AkvisIO software from Kistler offers synchronous, cross-system data analysis

Winterthur, October 2023

With the new AkvisIO IME (Injection Molding Edition) data analysis software, Kistler is helping its customers take a further step towards the digitalization of injection molding: all of the data from machines and process monitoring systems like ComoNeo and ComoScout can now be visualized and analyzed synchronously and across processes.

In addition to suitable machines and tools, high-performance and transparent injection molding processes often require more in-depth optimization with sensors and continuous production monitoring. Moreover, when it comes to designing processes that are optimal over the long term, data management and data analysis play a decisive role: they are the missing, often underutilized, link in the value chain of modern plastics processing.

AkvisIO IME from Kistler bridges this gap and enables customers to manage and analyze data across devices and processes. The data analysis software for recording, storing and analyzing high-frequency sensor and machine signals during injection molding is intended for use by both process engineers and data scientists. It replaces the previous ComoDataCenter (CDC) data management solution from Kistler and provides a comprehensive analysis function including automatic data synchronization with all connected systems.

#### Complete digital solution for process engineers and data scientists

AkvisIO IME simplifies the setting up and configuration of the connected injection molding machines and process monitoring systems from Kistler such as ComoNeo and ComoScout. Thanks to seamless synchronization, digital assets like tool configuration, reference curves and monitoring objects can be easily transferred and consistently managed – both on the master computer (AkvisIO) and directly on the machine. All data is saved on a cyclical basis and can be compared and analyzed across cycles, giving customers a single source of truth for all their plastics processing product data. Furthermore, the cross-machine and cross-device monitoring of all injection molding processes simplifies the creation of customized reports for quality assurance.



As a modular, scalable software solution, AkvisIO already comes equipped with a number of analysis features that are being continually expanded. These are the well-known monitoring functions of ComoScout and ComoNeo (known as evaluation objects or EOs) as well as working with reference curves. Other features include cross-cycle trend analysis and statistic statistical process control (SPC) with output of characteristic values for process capability and stability such as  $c_p$ ,  $c_{pk}$ , mean value and standard deviation. All of the analysis data obtained can be visualized and integrated into various reports.

#### Customizable, modular and scalable

Starting in September, the AkvisIO IME data analysis software will be available for the process monitoring system ComoScout. This entry-level solution from Kistler analyzes all available machine signals and is ideal as a retrofit for the digital connection of injection molding machines that are not yet equipped with mold sensors or which have sensors that are used for the analysis of temperature signals at voltage inputs. Starting in January 2024, the data analysis software will also be available for use with the process monitoring system ComoNeo, which monitors the injection molding process with the help of cavity pressure and temperature sensors.

Customers can individually determine the scope of AkvisIO IME based on their requirements. Additional modules such as trend monitoring with artificial intelligence will be released over time. Users of the previous database solution CDC can simply upgrade to AkvisIO, which will be the standard software for ComoNeo and ComoScout as of 2024. Thanks to integrated user management and rights management via lightweight directory access protocol (LDAP), AkvisIO also leaves nothing to be desired in terms of auditing, data security and traceability.

# Image material (reprinting free of charge provided that the Kistler Group image source is quoted)



Tel. +41 52 224 11 11

info@kistler.com

The new AkvisIO IME (Injection Molding Edition) data analysis software offers a variety of new features and functions for the digital optimization of injection molding.





In the trend visualization, recorded characteristic values of the machine and sensors can be compared across cycles with regard to their intervention limits, similar to statistical process control (SPC).



AkvisIO IME enables cross-system and cross-cycle data analysis during the injection molding process and ideally complements process monitoring with Kistler.

#### **Media contact**

Angelica Zeolla Marketing Campaign Manager Phone: +41 52 2241 606 Email: angelica.zeolla@kistler.com

#### **About the Kistler Group**

Kistler is the global market leader for dynamic pressure, force, torque and acceleration measurement technology. Cutting-edge technologies provide the basis for Kistler's modular solutions. Customers in industry and scientific research benefit from Kistler's experience as a development partner, enabling them to optimize their products and processes so as to secure sustainable competitive edge. Unique sensor technology from this owner-managed Swiss corporation helps to shape future innovations not only in automotive development and industrial automation but also in many newly emerging sectors. Drawing on our extensive application expertise, and always with an absolute commitment to quality, Kistler plays a key part in the ongoing development of the latest megatrends. The focus is on issues such as electrified drive technology, autonomous driving, emission reduction and Industry 4.0. Some 2,000 employees at more than 60 facilities across the globe are dedicated to the development of new solutions, and they offer application-specific services at the local level. Ever since it was founded in 1959, the Kistler Group has grown hand-in-hand with its customers and posted sales of CHF 434 million in 2022. About 8% of this figure is reinvested in research and technology – with the aim of delivering better results for every customer.