

In cooperation with



Measurement and
Automation Systems



Collection, analysis, and documentation of process data **DataXplorer**

Engineering Passion

Krauss Maffei

Collection, analysis, and documentation of process data DataXplorer



Detailed insight

All standard signals of the injection molding machine which are relevant to the process and component quality are plotted at 200 Hz.



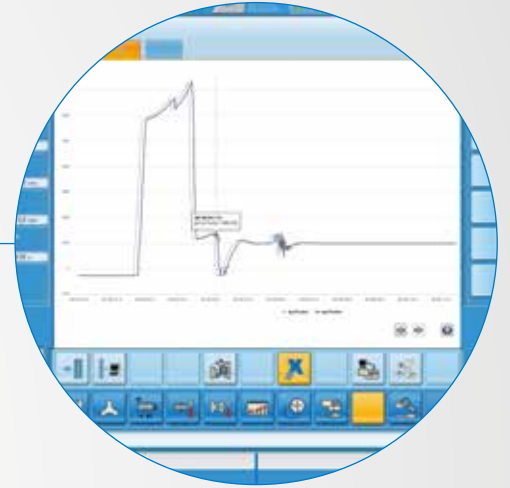
In-depth process analyses possible on the PC

Data export locally via USB or centrally via the company data network



Review on the machine

Graphs are stored for 7 days on the machine



Visualization of signal paths, evaluations, and long-term temperature trends

Directly in the machine's control panel



Uninterrupted documentation and automated evaluation

Possible with permanent storage on separate server system



Examination of curve progressions and analyses in company network

Optimized for use on mobile devices

Join the future data-based world

Easier troubleshooting and diagnosis

Together with our partner iba AG, we offer a data collection and analysis system for KraussMaffei injection molding machines, which gives you profound and unprecedented insight into your processes. Obtain new findings, identify faults quicker, discover optimization potential, and document your production like never before.

Insight at the highest level

With the DataXplorer data recording, you will never again miss any details of your processes. The synchronous recording of all process-relevant standard signals in the machine provides insight into the event and the correlations in the production process. The tuning and optimization of processes allow curves to be compared on the machine and differences to be identified. DataXplorer enables the professional archiving and further processing of data with supplementary systems for

the uninterrupted documentation of production processes in the form of curves or self-defined performance indicators. A subsequent evaluation on the computer allows even deeper analysis. The diverse analysis and evaluation options characterize the software of the iba AG, as the application offers intuitive operation, and at the same time, a complex range of functions.

1. Plot

Process-relevant special signals are plotted continuously and stored in a file for each cycle. Special signals can be optionally integrated in a plotting.

2. Compare

Display of curves in the MC6 controller and option to compare paths of different cycles.

3. Export

The data is accessible via USB stick or network connection and can be exported for further use.

Features

20 - 520 signals

5 ms resolution

One file per cycle

Separate plotting of downtimes

Features

Integration in control panel of MC6 controller

Stored data of last 7 days is available on the machine

Modern, web-based interface and intuitive operation

Comparison of freely selectable curves

Features

Export of data in compact iba *.dat format

All curve data stored on the machine is available at all times

Data can be sent for diagnosis

If required, can also be exported directly on the machine via USB

Available in the network

DataXplorer

Your benefits:

- Uninterrupted monitoring and documentation of processes
- Tuning and optimization of processes
- Easier troubleshooting and diagnosis
- Quality data analysis, troubleshooting, and other evaluations from wherever you are located and beyond corporate boundaries

4. Analyze

With the ibaAnalyzer, curves can be examined and evaluated on the PC without any additional costs. In addition, complex evaluations can also be performed with the recorded data.

5. Document

Filing production parameters at a new level.

Features

- View curves conveniently on the PC
- Synchronous recording of signals
- Self-defined performance indicators can be created using analysis rules
- iba AG software can be used for for the automatic evaluation
- Further analysis possible with all current data processing programs

Features

- Comparison of processes based on continuous values
- Production process can be documented without interruption
- Data can be evaluated with the free viewer (ibaAnalyzer) and converted into other data formats
- Optional products of the iba AG offer automated calculation of performance indicators for long-term monitoring

Basis for Industry 4.0 production Technological leadership through cooperation

Data is the foundation for enhanced efficiency in the future. With the DataXplorer KraussMaffei, together with the iba AG, can lay the foundation for Industry 4.0 production.

Data collection and processing form the basis for Industry 4.0. The cooperative venture with the iba AG, which boasts many years of experience in the field of data evaluation, gives us a unique opportunity to offer you a service which will optimally support you with the analysis and corresponding generation of added value, as well as data handling.

Optimum return

The cooperative venture between the two technology leaders guarantees you secure and space-saving data recording. For instance, quality data analysis, troubleshooting, and many other evaluations are possible from wherever you are located and beyond corporate boundaries. Using tried-and-tested evaluation software and a comprehensive range of training programs and services, you can now get even more out of your KraussMaffei injection molding machine.



Your benefits:

- Many years of experience of the iba AG in the fields of data recording and evaluation
 - Comprehensive software tools and services available
 - Better diagnostics data and process knowledge create optimal customer service
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DataXplorer

Collection and recording of data from the machine for displaying current and historic process and quality parameters on a web-based information server.



Machines and process analysis iba AG – See the big picture

By using an iba system, you can rest assured that your production systems are completely recorded and thus all individual processes in the systems are visualized without interruption.

One of the big challenges of Industry 4.0 is a common database across all processes, both in each individual machine, and throughout production.

Flexible and in real time

Our cooperative venture partner, the iba AG, is one of the leading specialists in the field of high-quality technical collection systems and software solutions for measuring, testing, and analyzing machine and system data. iba systems are not only able to grow with increasing requirements, but are also compatible with all current control and field bus systems. They are able to record, document, visualize, and analyze process values flexibly and in real time.

Transparent

All recorded data is available to you at any time in a data pool, where you can accurately analyze, monitor, and optimize the state of your machines and the quality of the process.

Individual

The depth of manual and automated analysis can be freely configured according to your needs and the results can be made available in different forms and formats. Two additional packages help you with data analysis and production monitoring.

Package: Analysis and development

The visualization and analysis of machine data can be customized and adapted to suit requirements. Allows detailed quality and process optimizations.

Package: Production monitoring

Central storage of all data related to entire production process. The analysis of all machines forms the basis for continuous quality and process optimization. Furthermore, the central data pool allows the drilldown to specific trends of production parameters of each individual part produced.

Collection, analysis, and documentation of process data

DataXplorer

The digital world needs data to achieve efficiency gains. With DataXplorer, KraussMaffei offers you a new open system for using and documenting process data in the injection molding process. All the data from your production processes can now be recorded and evaluated more easily and more accurately than ever before. Together with our partner iba, we offer you machine-integrated recording of all process-relevant signals. This provides completely new insight into processes and adds a new dimension to documentation.

With its know-how and expertise in the field of data evaluation, the iba AG can optimally support you in the analysis and corresponding generation of added value, as well as data handling. With KraussMaffei as a competent partner for machine and process technology, you design your processes even more transparently and efficiently with the DataXplorer.