

The intuitive control of the future MC6 Multitouch

Engineering Passion

KraussMaffei

Facts and figures regarding the MC6 Multitouch control

Most important features at a glance



"Tactile" control of the axes with
SlideX technology



RFID for a personalized
user interface



Smartphone swipe technology
for easy, intuitive operation



XtraScreen for more space
and customized layout of the
work area

The intuitive control of the future MC6 Multitouch

The success story of the MC6 machine control is entering the next phase: with the Multitouch principle. The system impressively meets all modern requirements for simple, customized operation and includes all the familiar commands and functions of the MC6 control.

With a high-resolution 24-inch capacitive display, the Multitouch principle sets new standards in terms of clarity, individualization and user-friendliness, making it one of a kind both in size and design.

Your benefits:

- "Tactile" control of the axes with SlideX technology
- RFID for a personalized user interface and quick access
- Easy, intuitive operation using smartphone swipe technology
- XtraScreen provides more space for displaying additional pages in realtime (such as live video streams from non-operator side)

Fascinating tour of the MC6 Multitouch control

High-resolution, 24-inch capacitive HD screen

Perfect overview of all relevant processes

Intuitive characteristics of a smartphone

Move windows and zoom in and out using gestures



Comprehensive integration of the robot in the user interface

Switch between injection molding machine and view of automation system quickly and easily



Innovative SlideX technology

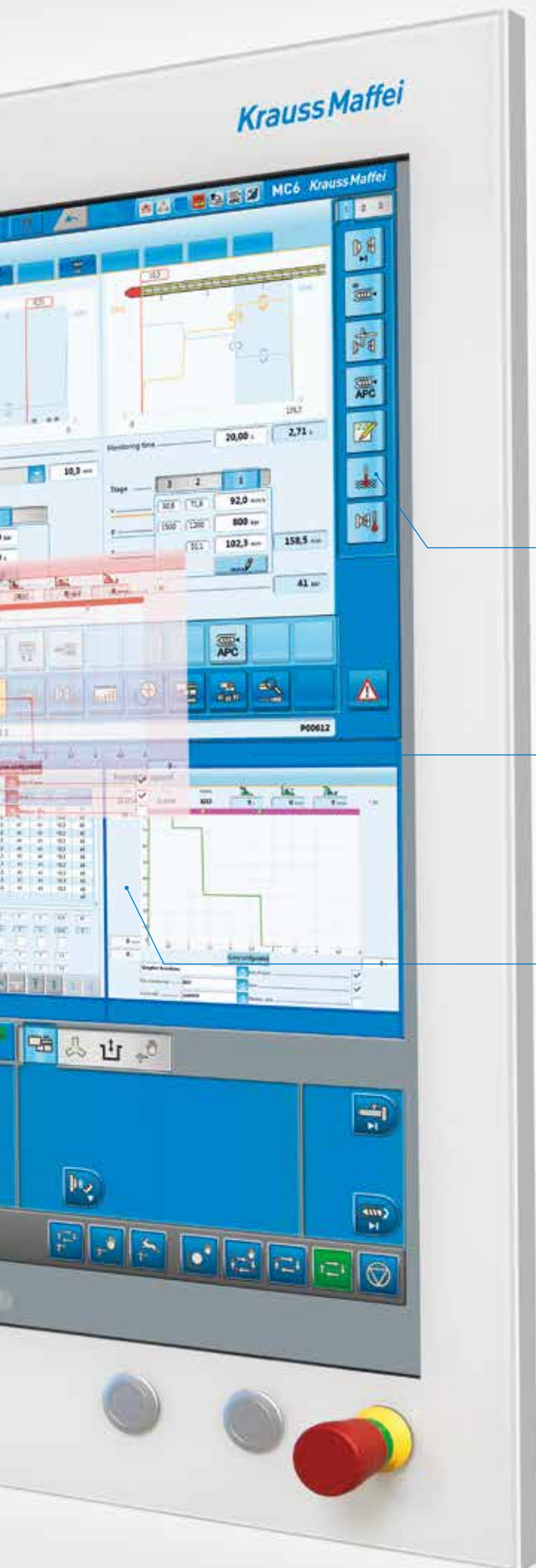
"Tactile" control of all axis movements



Personalized RFID interface

RFID badge allows user to sign in and out quickly





Process Designer

Simple creation and modification of processes using drag-and-drop or intuitive swipe movements



Freely configurable "favorites" column

Customized, flexible user interface arrangement

Choice of two display modes depending on requirements

– SplitScreen:

Split screen view for a clear overview and possibility of editing all production processes directly

– XtraScreen:

Freely configurable screen selection and more space for displaying additional pages in realtime. Double-clicking activates the editing function for the relevant XtraScreen page.



The control of the future Intuitive operation, customized configuration

The capacitive display technology of the new MC6 Multitouch control system allows operators to initiate multiple actions simultaneously. This means, for example, that a machine button can be pressed while the configuration screens are being operated.

SlideX guiding line controls the machine intuitively and accurately

The SlideX guiding line engraved in the glass is unique on the market and allows the operator to control all axis movements "haptically". The operator can accurately and freely vary the speed without having to look at the control. The further the operator moves his finger to the left or right, the faster the axis moves in the desired direction. If integrated in an automation solution, the robot axes can also be controlled using SlideX.

Access authorization with RFID for direct access to stored data with maximum security

When operators sign in on the machine with their RFID badge, the system presents them with a customized screen – the defined language and page configuration appear immediately. Readers, badges and data are all standardized according to EUROMAP 65, which means the badge can be used for other purposes such as clocking in and out. RFID technology enables instant operation and loads the personal preferences of the user.



Machine control made easy – with SlideX



RFID technology for a high degree of customization and maximum security



The new Multitouch control is as easy to use as a smartphone. Zoom and swipe technology ensure maximum usability.

Customized operator window layout, zoom function and new XtraScreen with camera function guarantee a perfect overview of all processes

The operator can adapt the control of the future as required simply by moving the display windows to the desired position. Depending on user preferences and the application, users can move the windows to the desired position simply by dragging and dropping them with their finger. The screen diagonal has been enlarged from 19 inches to 24 inches to increase clarity and enhance the overall usability of the control. The new camera function can transmit live video streams

directly to the control interface so even areas that are difficult to see such as the non-operator side can be visualized. With the new XtraScreen, the control can create additional space for displaying core puller valves or core-pulling limit switches, for example. Depending on requirements, the operator can retrieve relevant input pages from the main screen and organize them into groups.

Do you want to analyze process steps or assessments more closely and examine the finer details? Now you can with our new zoom technology. Simply spread

your fingers on the screen in the same way as you would on a smartphone.

A quick and flexible way to start analyses and diagnostics.

Your benefits:

- SlideX guiding line for precision machine control
 - Intuitive speed control to prevent damage
 - Customized operator window layout with SplitScreen, XtraScreen and zoom function provide a perfect overview of all processes
 - Quick and easy analysis and diagnostics
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Top priority: Usability From logging in to quality assurance

With the intuitive MC6, KraussMaffei has developed a system that improves every facet of machine operation for the user. Our experienced software specialists always strive to develop useful functions that keep navigation simple.

1. Logging in



Quick, reliable start

- **RFID badge:** Certified in accordance with Europap 65, provides quick and easy access to personalized work area.
- **Password-protected levels:** Flexible security settings prevent misuse.

2. Data management



Easy to load and save

- Save and load data via a USB stick, central computer or remote operation
- Data records recalculated automatically to match the current machine size (e.g. screw diameter)

3. Machine setup



Quick to program, clever configuration tools

- **SplitScreen and XtraScreen:** The user can keep track of all the most important production processes simultaneously on the split-screen display.
- **Process Designer:** Process sequences are easy to create and all ongoing processes are displayed visually. If required, processes can be created and modified easily by dragging and dropping or using intuitive swipe movements.
- **Barrel Heating Assistant:** Use the assistant to load cylinder temperature profiles from a comprehensive material database in seconds. When the plastic material scheduled for processing is selected, the MC6 calculates the correct setpoints for the temperature profile.
- **Weekday timer:** New function that automatically calculates the switch-on times for oil preheating and cylinder temperatures. The specified production start time is essential for the calculation, which also incorporates the ideal heating time.

Your benefits:

- RFID and password-protected levels for a quick, reliable start
- Quick to program, clever configuration tools [SplitScreen, XtraScreen, Process Designer, Barrel Heating Assistant, weekday timer]
- Interactive communication between automation system and control unit
- Innovative features such as live streaming and remote service via Remote Manager, Eco Button, APC and many more.
- Energy efficiency, improved cycle times and process reliability save valuable resources
- Quick and efficient process control

4. Automation setup



WizardX – The dialog-based programming assistant

Mold setters can create a basic program that functions properly in only 4 steps using the integral handing control and graphic programming interface. The interactive communication between the user and control system makes manual programming superfluous and eliminates programming errors.

5. Production



Innovative features for optimized production

- **Eco Button:** Simply click the Eco Button to adopt the most efficient energy settings for the machine.
- **Cycle time analysis:** The user can continuously check the cycle and setup times, which are clearly displayed in bar graph format (comparison of reference times and actual values), to determine whether all the processes are running correctly and identify any untapped potential.
- **APC:** Measures the melting viscosity directly during injection and corrects deviations by making adjustments to both the switchover point and the holding pressure.
- **Log book:** Any modifications to settings are saved to ensure maximum transparency, even during shift operation.
- **Remote service** using the Remote Manager
- **Camera function:** Even areas that are difficult to see, such as, the non-operator side, can be visualized via live video streams.

6. Analysis



Analysis tools for quick and efficient process control

- **Actual value log:** Stores all relevant parameters, including statistical evaluations and tolerance monitoring data.
- **Trend graphs:** Graphic illustration of selected parameters. Special feature: long-term graphs can be displayed for several months to identify even the smallest variations.
- **Graph analysis package:** Illustration of up to ten selected graphs (e.g. pressure graph) with tolerance range and area monitoring.
- **XR control charts:** Numerical and graphical process evaluation using statistical assessment criteria (process capability).

Further information which might also interest you



Are you looking for detailed information about the right injection molding machine and automated solution for your application?

KraussMaffei can offer you a wide selection of injection molding machines. Find out about our hydraulic CX, GX and MX Series or our fully electric AX and EX Series. We can offer you the right robot for every production task. You can also choose special mold clamping systems or other accessories for your injection molding machines.

We have also compiled extensive information on the subject of service for you.

With our servicing and maintenance services you can increase the flexibility of your injection molding machines to meet ever-changing process requirements and enhance their performance in the long term. We would be happy to provide you with detailed information on this.

Obtain information about the following, for example:

- Basis for cost-effective production –
Linear robots in the LRX/LRX-S Series
- Flexible tools for productive automation –
industrial robots in the IR Series
- Our service expertise is the key to your production efficiency
- Service & Solutions

Visit our website to view our brochures and flyers on other interesting topics: www.kraussmaffei.com. On request, we would also be happy to send you information and technical data about our products free of charge.



KraussMaffei

A strong brand in a unique global group

Cross-technology system and process solutions

Whether in Injection Molding, Reaction Process Machinery or Automation – the KraussMaffei brand stands for pioneering and cross-technology system and process solutions in plastics processing worldwide. For decades, our expertise, innovative ability and passionate commitment to plastics engineering have been your competitive edge. As a cross-industry system provider, we offer you modular and standardized systems as well as solutions customized to your needs.

There for you around the world

With our worldwide sales and service network, we offer our international customers an excellent basis for a successful business relationship. Due to the close proximity to our customers, we are able to answer your individual inquiries very quickly. We work out the best possible technical and economical solution for your product and production requirements together with you. Test our machine technology for your applications and let our experts put together an individualized service package for you.

Individualized service

Our employees from customer service, application technology and service help you with your questions and needs on every topic dealing with machines, systems and processes – around the globe, quickly and with a high level of expertise. We have developed an extensive customized service spectrum with our lifecycle design, which accompanies you throughout the entire lifecycle of your machines and systems. Take advantage of the personal interaction and flexibility we offer in our practically oriented seminars. We carry out customer-specific trainings either at your location or at our sales and service locations.

You can find additional information about KraussMaffei at: www.kraussmaffei.com

KraussMaffei Group

Comprehensive expertise

Unique selling proposition Technology³

The KraussMaffei Group is the only provider in the world to possess the essential machine technologies for plastics and rubber processing with its KraussMaffei, KraussMaffei Berstorff and Netstal brands: Injection Molding Machinery, Automation, Reaction Process Machinery and Extrusion Technology.

The group is represented internationally with more than 30 subsidiaries and over ten production plants as well as about 570 commercial and service partners. This is what makes us your highly skilled and integrated partner. Use our comprehensive and unique expertise in the industry.

You can find additional information at: www.kraussmaffei.com



The KraussMaffei Group has a global presence. Countries with subsidiaries are marked in dark blue. In the white-colored regions, the Group is represented by over 570 sales and service partners.

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The operator can now control complex production processes with the ease of operating a smartphone using swipe techniques. The SlideX guiding line engraved in the glass enables the operator to control all axes haptically without looking at the console. As a result, the user obtains a perfect feel for the axis movements and can configure them intuitively. Activation of the display can also be personalized using an RFID chip. The user interface with XtraScreen function and SplitScreen can be configured individually to create the largest possible work area and maximize work efficiency.

