

# PERFORMANCE MEETS SUSTAINABILITY

## NEW ALL-ELECTRIC PX SERIES

COMPACT.  
PRODUCTIVE.  
SUSTAINABLE.



**Krauss Maffei**  
*Pioneering Plastics*

# AREAS OF APPLICATION

## FACTS & FIGURES



Medical



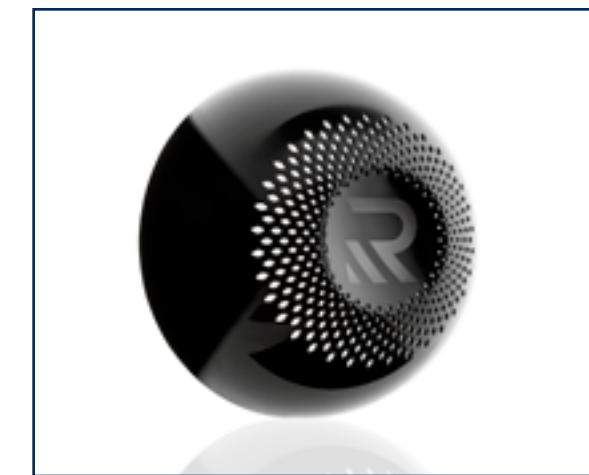
Electric



Packaging



Automotive



Consumer goods industry



Medical packaging

### CLAMPING/INJECTION MATRIX

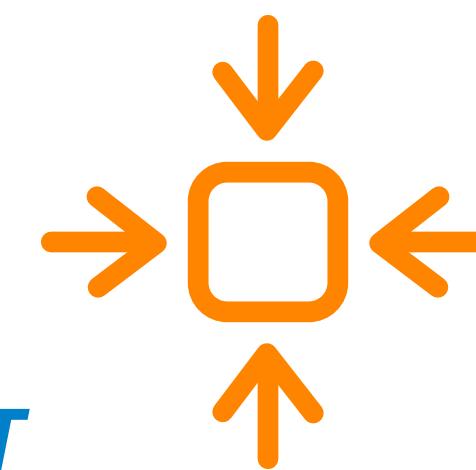
Machine/ clamping force in metric tons	Clearance (h xv) in mm	Injection units (screw diameter in mm)					
		SP 180	SP 250	SP 380	SP 540	SP 750	SP 1000
PX 80	485 x 435	25	28	30	30	35	35
PX 120	530 x 480				35	40	40
PX 160	585 x 535			35	40	45	45
PX 200	635 x 585			40	45	50	55

Other PX sizes coming soon.

# PERFORMANCE MEETS SUSTAINABILITY

## THE NEW ALL-ELECTRIC PX SERIES

The new all-electric PX generation is the cutting-edge solution for sustainable, compact and productive injection molding. The clamping unit with the servoelectrically driven 5-point toggle lever is designed for large and heavy molds. The expanded modular principle allows for customer-specific configuration of the all-electric PX. It sets new standards in energy efficiency for all-electric injection molding machines.



### COMPACT

- Housing concept for efficient positioning of options
- Reduces the footprint by up to 20%
- Integrated production cell (5 machines instead of 4)



### PRODUCTIVE

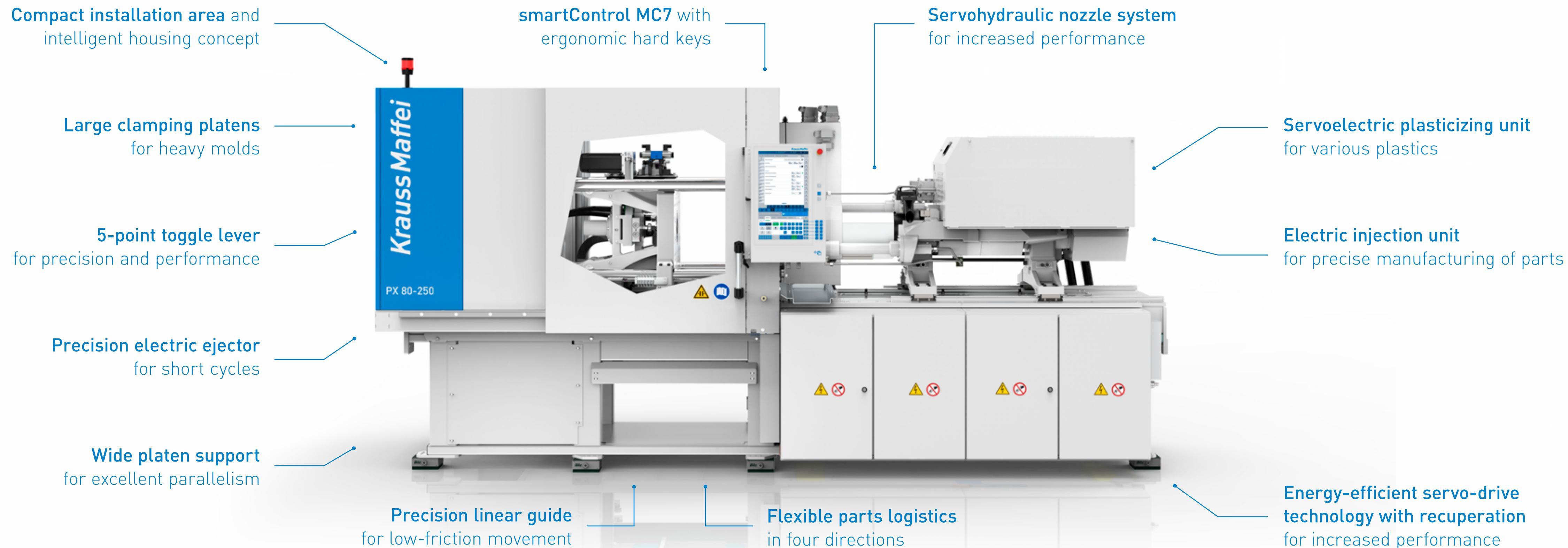
- Generously dimensioned clamping platens for heavy molds
- Precision linear guides, exposed tie bars and wide platen support
- Energy-efficient drive technology and servo drives for all axes with an unrestricted parallel drive



### SUSTAINABLE

- Minimum friction due to precision linear guides for optimal energy efficiency
- Recuperative drive assemblies enable additional energy savings
- Fully accessible machine areas make for easier operation and maintenance

# COMPACT. PRODUCTIVE. SUSTAINABLE. CUSTOMER-SPECIFIC HIGH-PERFORMANCE SOLUTIONS



# WIDE VARIETY OF INDUSTRIAL APPLICATIONS

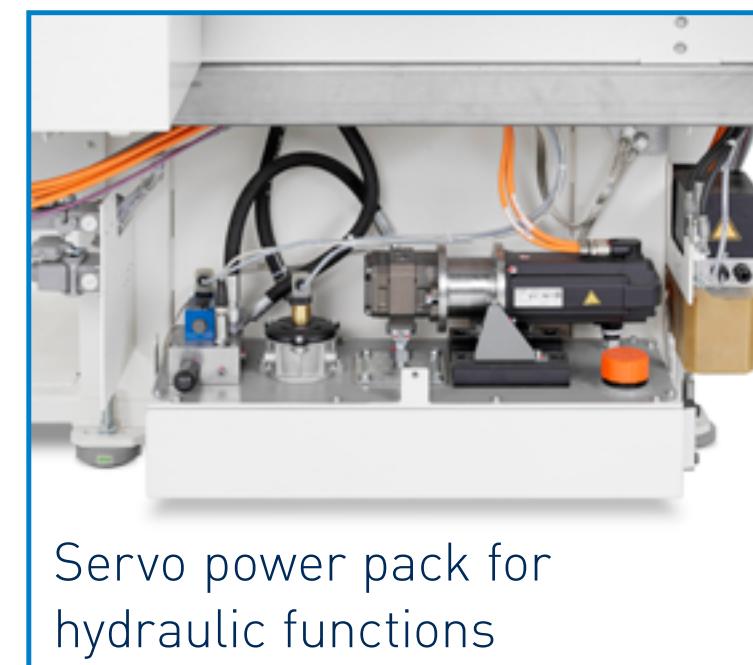
## PACKAGING

### OPTIONS FOR INCREASING PERFORMANCE

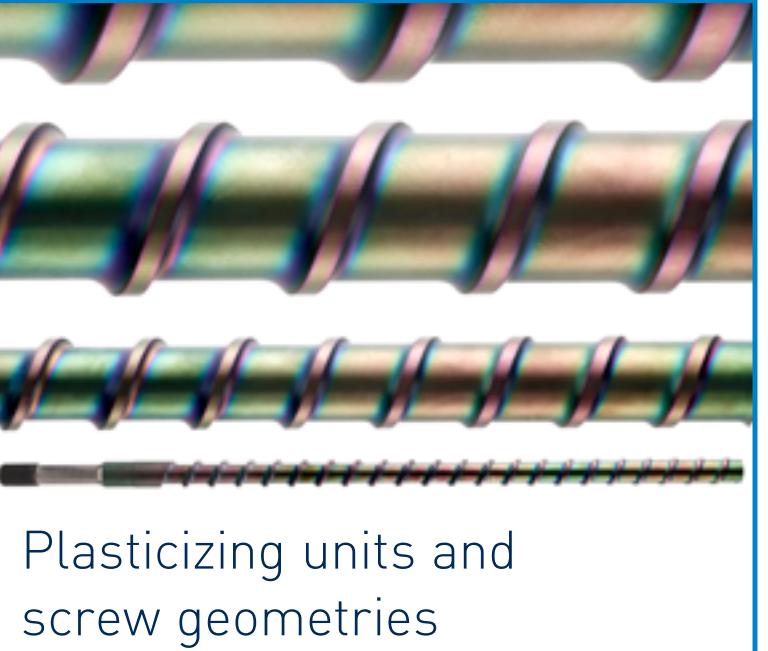
- Increased power classes for injection
- Boosted drive power for the plasticizing unit
- Very fast electric ejector movement

### HIGH-PERFORMANCE PLASTICIZING UNIT

- Improved dwell time
- Increased plasticizing output
- Excellent dyeing of masterbatch and additives



Servo power pack for hydraulic functions



Plasticizing units and screw geometries

### TECHNICAL COMPONENTS

#### SERVO POWER PACK FOR HYDRAULIC FUNCTIONS

- For core pullers and cascade functions
- Space-saving integration into the machine housing
- Various power classes available



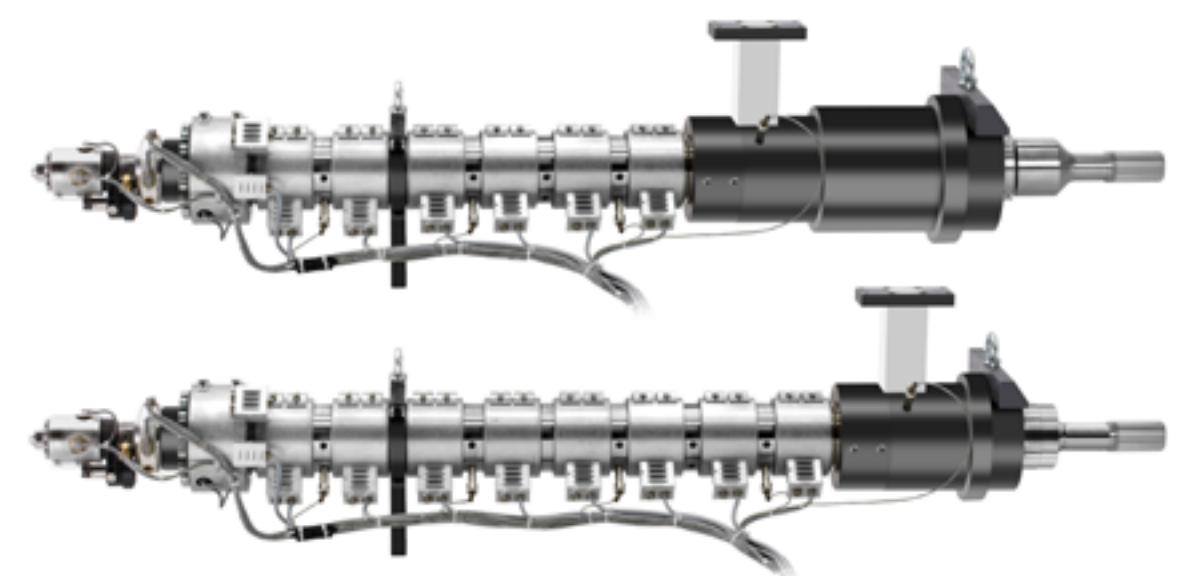
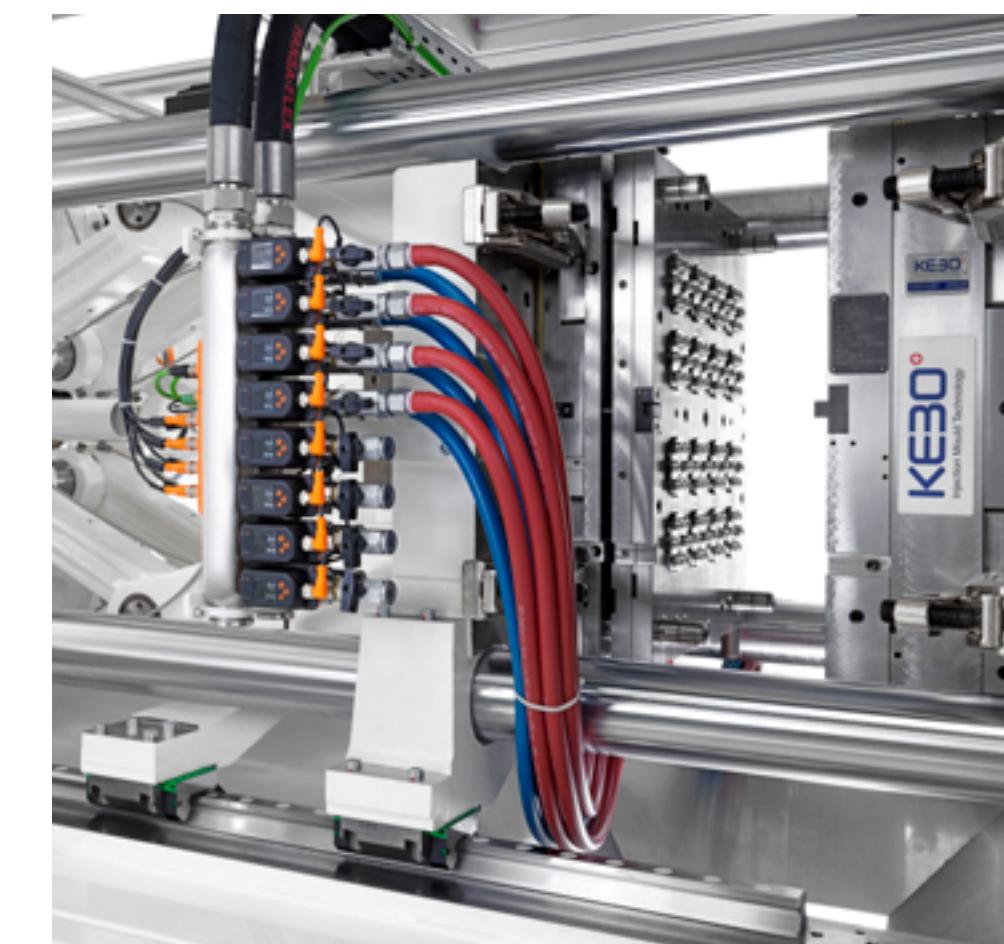
#### PLASTICIZING UNITS AND SCREW GEOMETRIES

- For processing transparent plastics
- Abrasion protection, for example, for fiber-glass reinforced thermoplastics
- Increased corrosion protection for special polymers

# WIDE VARIETY OF INDUSTRIAL APPLICATIONS

## MEDICINE AND PHARMACEUTICALS

- Most compact cleanroom solution: from elevation of the machine to a laminar flow box and high-gloss finish
- Enclosed drives, closed lubrication systems and NSF H1 approval
- Efficient mold heat-balancing with monitoring of individual circuits



## OTHER FEATURES

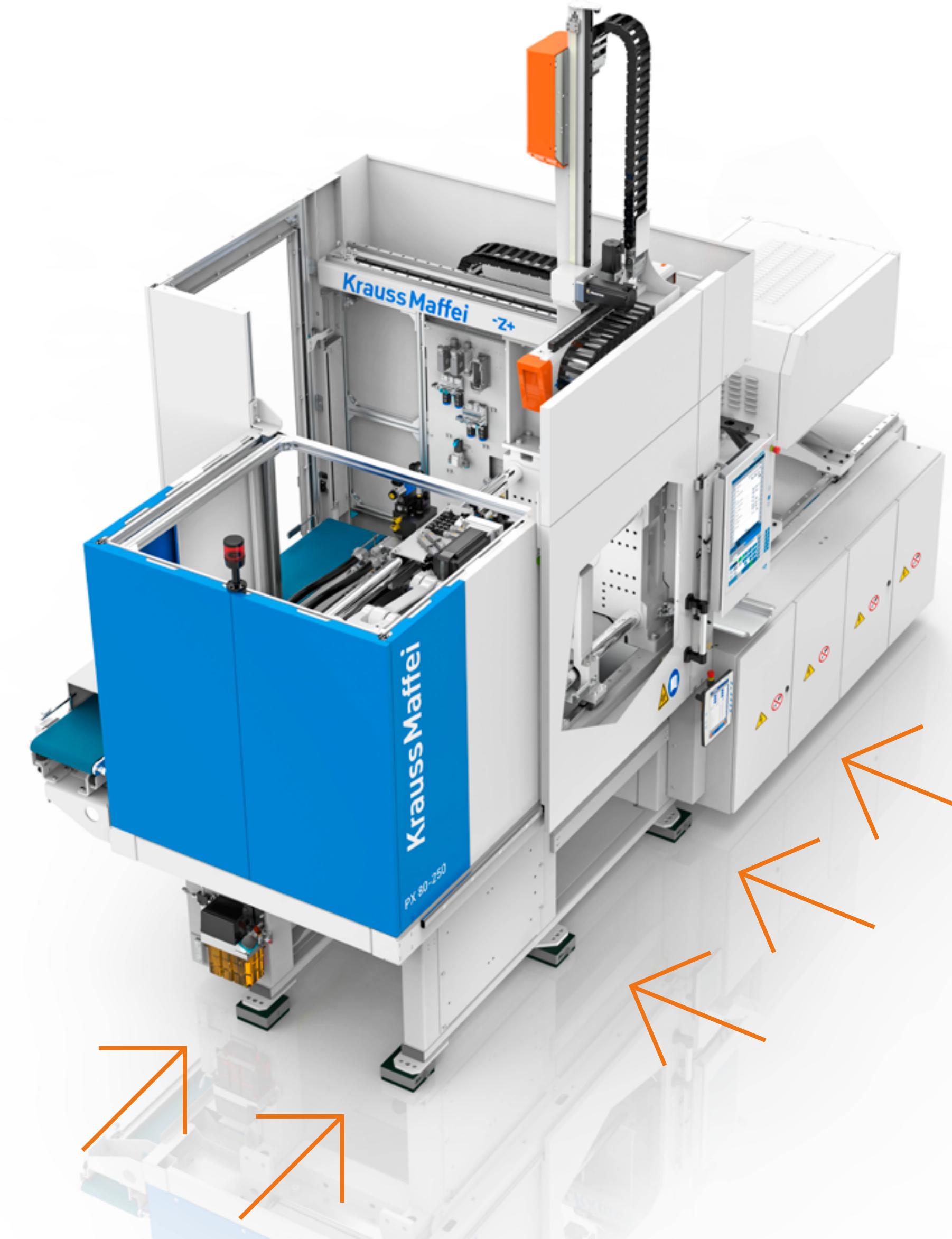
- Smart hot runner control points with selectable functions such as:
  - Prioritized or synchronous heating up
  - Boost and lowering function
  - Optimization of heater groups
- Efficient mold cooling with space-saving media supply close to the mold
- More flexibility through adaptation of the plasticizing unit for a very large range of shot weights
- Easy to retrofit

# COMPACT PRODUCTION CELL

## HIGH-PERFORMANCE AUTOMATION

More space thanks to compact PX production cell with integrated LRXplus linear robot. The optionally available production cell offers the optimum solution for cost-effective parts removal and space-saving material flow. The PX protective housing is extended by the width of the conveyor belt and simultaneously acts as a safety zone for the robot. As a result, there is no need for an additional robot safety fence or a safety gate. This compact concept reduces the required production space compared to conventional housings by about 20-25%.

- Integrated LRXplus linear robot
- Higher production density: instead of 4 PX cells with LRXplus, now 5 cells fit in the same area
- Integration of LRXplus into the machine housing
- Conveyor belt and safety gate are decoupled and cantilevered
- Ideal accessibility to the mold
- CE-compliant design



# AUTOMATION

## MORE FLEXIBILITY IN PRODUCTION

The CE-compliant automation solutions are designed for efficiency and maximum productivity. They cover a range from simple pick-and-place tasks to complex automation processes – from insertion and removal to checking and fabrication. This enables reduced manufacturing costs and increased total productivity.

### LRXplus LINEAR ROBOT

- High technical availability thanks to robust axes
- Intuitive MC7 control system with hard keys
- Short removal times
- Custom solutions for complex requirements
- Turnkey automation cells
- Flexible gripper solutions

### INDUSTRIAL ROBOT IR

- Optimal positioning in relation to the injection molding machine for the smallest production footprint
- Excellent operating concept
- Integration of various peripherals
- Flexible gripper solutions



# **POWERFUL. INTUITIVE. SAFE.**

## **MC7 – THE NEW ERA OF MACHINE OPERATION**

Our new smartControl MC7 offers:

### **INTUITIVE OPERATION**

Guided setup and optimization processes for effortless commissioning.

### **MAXIMUM OVERVIEW AND NAVIGATION**

Clear dashboards, structured navigation and easy data comparisons.

### **TECHNOLOGY-ADAPTED INTERFACES**

Optimized operation for specific technologies.

### **OPTIMIZED COMMUNICATION**

Expanded Euromap interfaces for seamless data flows in the production cell.



# PROCESS DESIGNER

## EVERYTHING FOR YOUR PROCESS AT ONE LOCATION

The smartControl MC7 lets you easily and efficiently optimize processes:

### GRAPHICAL PROCESS OVERVIEW

Intuitive visualization of the entire process with direct insight into the process status.

### MAXIMUM FLEXIBILITY

Individual design and reusable function blocks for your own processes.

### SIMPLE CORE-PULLING PROGRAMMING

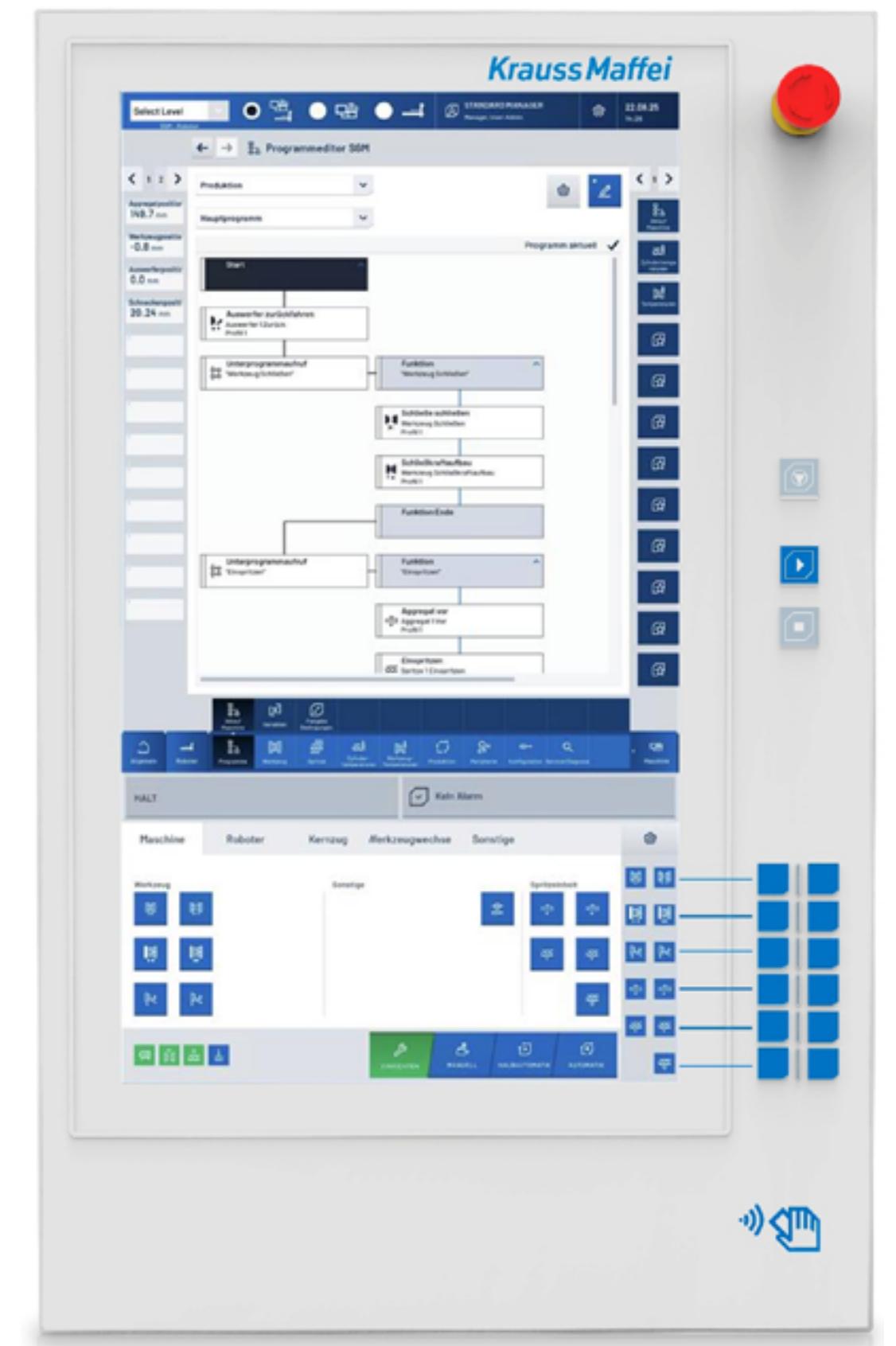
Complex sequences can be easily configured, core movements can be directly programmed.

### BASIC TEMPLATES AND SETUP ASSISTANT

Ready-made templates and guided setup.

### TRANSPARENCY IN OPERATION

Production processes visible at a glance.



### Optional features:



socialProduction for intelligent monitoring of machines with AI support.

smartOperation safely and efficiently guides the operator through the entire production process with clear instructions.

APCplus (Adaptive Process Control) for optimum shot weight consistency and process stability.

# **DIGITAL & SERVICE SOLUTIONS**

## **OUR WORLDWIDE EXPERTISE IS YOUR ADVANTAGE**

With your KraussMaffei machine, you have chosen a product that delivers the highest levels of productivity and reliability. In addition to our range of machinery, KraussMaffei focuses on comprehensive and future-oriented solutions, innovative business models and an innovative portfolio of digital products.

### **CUSTOMER SERVICE AT THE TOUCH OF A BUTTON**

The process of digital transformation is becoming faster and easier than ever for the customer. Our Digital & Service Solutions unit makes your production chain even more flexible and efficient with future-oriented solutions. KraussMaffei thus globally provides an all-inclusive customer service package and networks machines and processes with each other. Our global support offers a sound basis for your local long-term success.

### **INDIVIDUAL CHALLENGES IN MECHANICAL ENGINEERING CALL FOR INTELLIGENT SOLUTIONS**

With our services portfolio, we support you throughout your machine's lifecycle with a strong focus on your specific needs. In order to satisfy your wishes, we offer you a wide range of solutions in order to ensure maximum availability and optimum productivity of your machines.

### **TECHNOLOGY THAT IS A UNIQUE SELLING PROPOSITION**

KraussMaffei is the only supplier in the world with a product range comprising the most important machine technologies for plastic and rubber processing: injection molding machinery, automation, reaction process machinery and extrusion technology. KraussMaffei is represented worldwide with more than 30 locations and over 10 production plants as well as about 570 commercial and service partners. This is what makes us your highly skilled and integrated partner. We are thus in a position to offer vast and unique expertise in the industry.

**YOU CAN FIND ADDITIONAL INFORMATION AT:  
[WWW.KRAUSSMAFFEI.COM](http://WWW.KRAUSSMAFFEI.COM)**



# **KRAUSSMAFFEI - PIONEERING PLASTICS**

## ***EXTENSIVE EXPERTISE FROM A SINGLE SUPPLIER***

KraussMaffei is one of the world's leading manufacturers of machinery and systems for producing and processing plastics and rubber. Our brand has been synonymous with cutting-edge technology for over 180 years. Our product range includes all technologies in injection molding, extrusion and reaction process machinery as well as additive manufacturing and automation. KraussMaffei has a unique selling proposition in the industry as a result. By drawing on our proven innovative capacity, we can guarantee our customers sustained additional value over their entire value-adding chain through our standardized and individual product, process, digital and service solutions. The range of our products and services allows us to serve customers in many sectors including the automotive, packaging, medical and construction industries. We also supply manufacturers of electrical and electronic products and household appliances.

## ***AT YOUR SERVICE ALL OVER THE WORLD***

KraussMaffei is represented worldwide by subsidiaries and our commercial and service partners in various countries.

***YOU CAN FIND ALL CONTACT INFORMATION AT  
[WWW.KRAUSSMAFFEI.COM](http://WWW.KRAUSSMAFFEI.COM)***



# PERFORMANCE MEETS SUSTAINABILITY

WATCH AND SEE OUR NEW ALL-ELECTRIC  
INJECTION MOLDING MACHINE OF THE PX SERIES



[WWW.KRAUSSMAFFEI.COM](http://WWW.KRAUSSMAFFEI.COM)

1st edition 12/2025 IMM New PX series - 12/2025 DN ... Technical information subject to change

**Krauss Maffei**

*Pioneering Plastics*