

High-Speed Preform-Molding

ZenQ

Gene-3

KRONCE
科朗斯

THE ULTIMATE PREFORMING SOLUTION



OUR MACHINE DELIVERS HIGHER QUALITY ALONG WITH LOWER COSTS AND BETTER ENERGY PERFORMANCE.

<0.18 Kwh/kg	100% rPET	5556 g	8 million	100% compatibility	72 cavities
energy consumption	pellets capabilities	Shot weight max	cold half cycles guaranteed	with legacy tooling	preform mold



ZenQ Gene-3 Beyond a Machine:

- **Clamping & Cavities:** 2800 / 3600 kN | 48 & 72 cavities
- **Lock-to-Lock Time:** < 3.5s rapid, low-vibration cycle
- **Injection Unit:** High-throughput Kronce screw
- **Post-Mold Cooling:** 3-station side removal, quick-change
- **Mold Longevity:** Surface-treated components & low maintenance
- **Hot Runner:** Balanced flow with low pressure drop
- **Smart Control:** Self-developed software for fast, safe start-up
- **Tooling Compatibility:** Direct fit for legacy molds without modification



OPTIMIZED FOR HIGH-VELOCITY OUTPUT

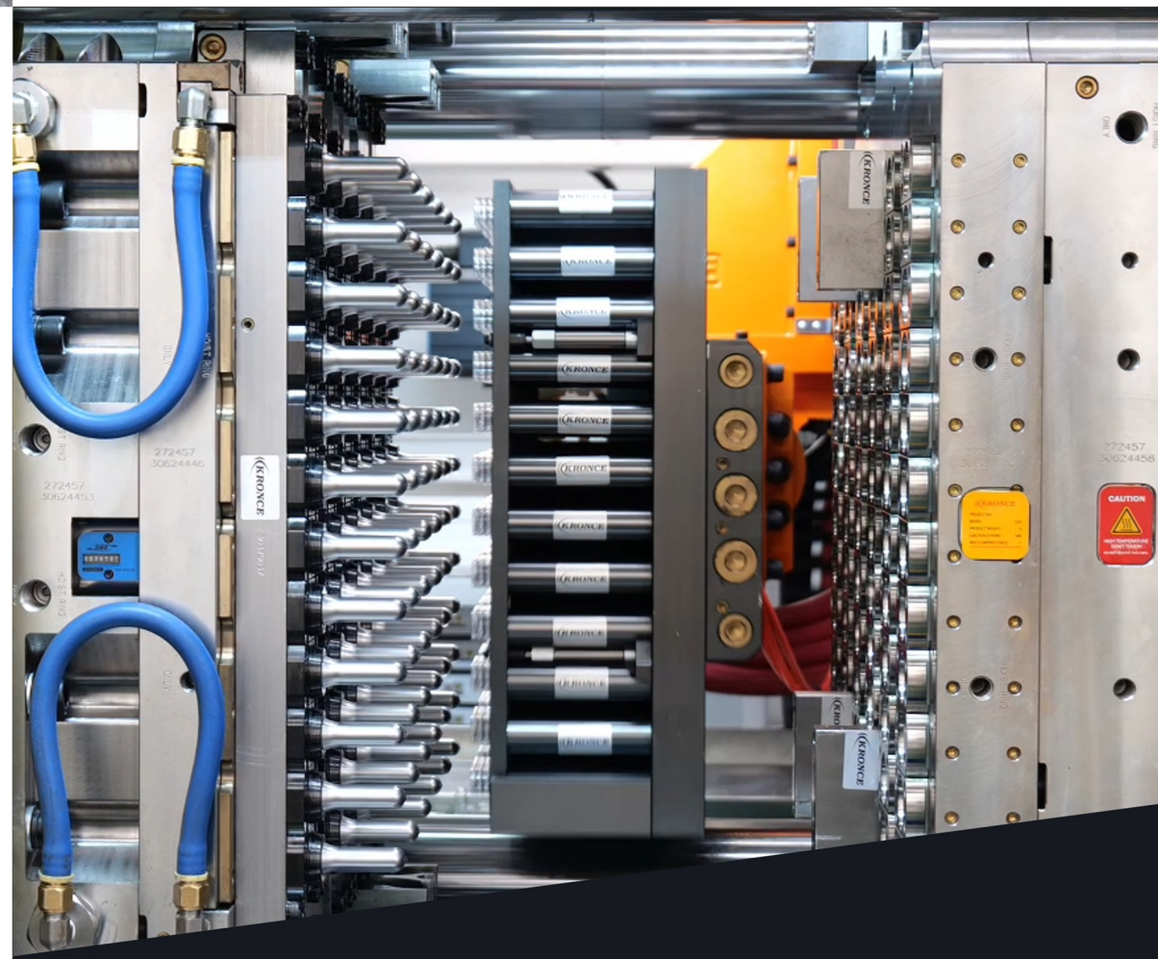
Designed for maximum production throughput. The synergy of a responsive control system and robust mechanics ensures higher hourly output, directly enhancing production efficiency.

SUSTAINABLE ENERGY CONSUMPTION

• An efficient design reduces overall power consumption without compromising output.
• Intelligent power management minimizes energy waste, resulting in direct and measurable reductions in operational costs.

UNWAVERING OPERATIONAL STABILITY

Built upon a heavy–duty, vibration–dampening machine frame for exceptional reliability. This solid foundation guarantees consistent part quality and maximum machine uptime, even during **continuous 24/7** operation.





INJECTION SYSTEM

SUPERIOR MELT QUALITY AND EFFICIENCY

Servo-Driven Precision:

Ensures highly precise and repeatable injection movements.

High-Throughput Screw Design:

Featuring our new **Kronce high–throughput screw design,** capable of supporting various productivity ranges and high injection speeds.



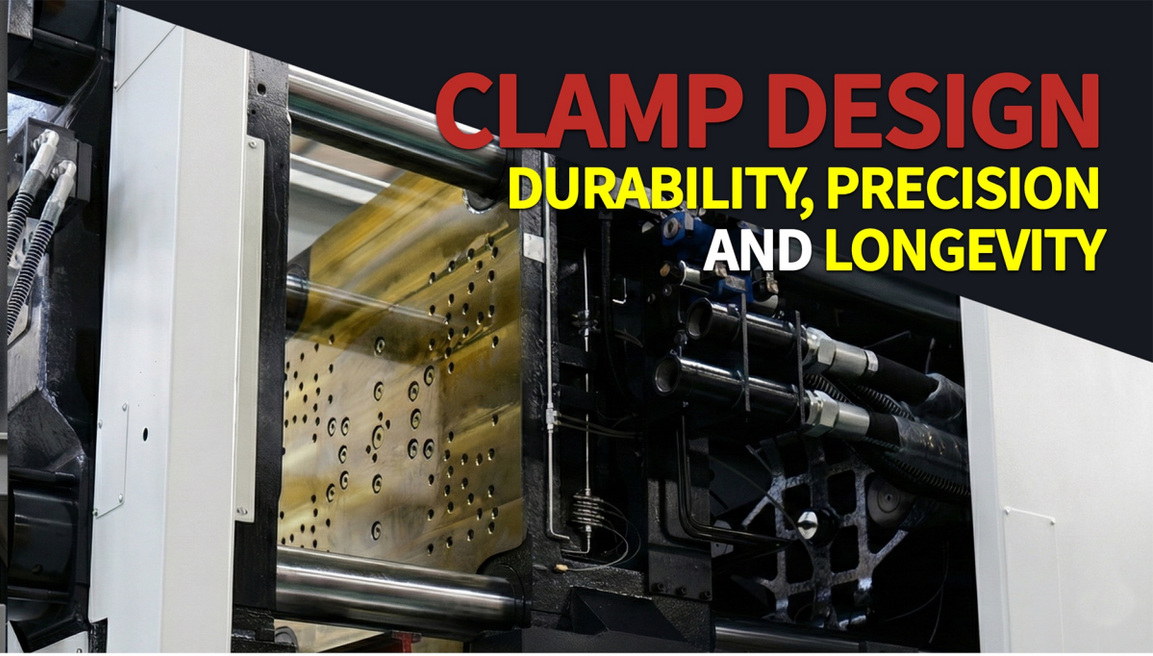
Optimized Screw Rotation for Material Integrity:

Designed for consistent, low-stress material processing, resulting in:

- Reduced energy consumption through optimized drive control.
- Lower material degradation (e.g., minimized IV drop).
- Reduced acetaldehyde (AA) generation.

Excellent Processing for Recycled Materials:

Engineered for optimal processing of PCR (Post–Consumer Resin) and other recycled PET applications, contributing to sustainable manufacturing.



CLAMP DESIGN

DURABILITY, PRECISION AND LONGEVITY

Smooth & Stable Closing Profile:

Provides an exceptionally smooth closing action, leading to:

- Reduced stress on mold components, significantly extending mold life.
- Minimized vibrations, ensuring overall system reliability and stability.

Active Mold Protection System

Continuously monitors the clamp closing profile at every cycle, safeguarding your valuable tooling.

Enhanced Cleanliness:

Incorporates optimized lubrication systems for a cleaner operating environment.

Low Maintenance & Extended Service Life:

- Designed for **extremely low maintenance costs,** eliminating the need for periodic rebuilding associated with high–pressure hydraulic cylinders (for our electric clamping unit, where applicable).
- Features a robust design with **high platen thickness and excellent platen parallelism**, virtually eliminating deflection for superior mold life and long using life **component performance.**



POST-MOLD COOLING

MAXIMUM EFFICIENCY AND PRODUCTIVITY

Independent Transfer System:

The preform transfer system operates independently from clamp movement, allowing for **maximum flexibility** and optimized cooling cycles.

Accelerated Cooling for Faster Cycles:

Features a **side removal unit with 3 post–mold cooling stations**, significantly reducing cycle time and boosting productivity.repeatable injection movements.

Enhanced Accessibility:

Provides **excellent accessibility** for faster and more efficient mold changeovers, contributing to higher uptime.

Scalable Cooling Stages:

Designed with vertical movement capability to accommodate additional cooling stages for diverse preform requirements.

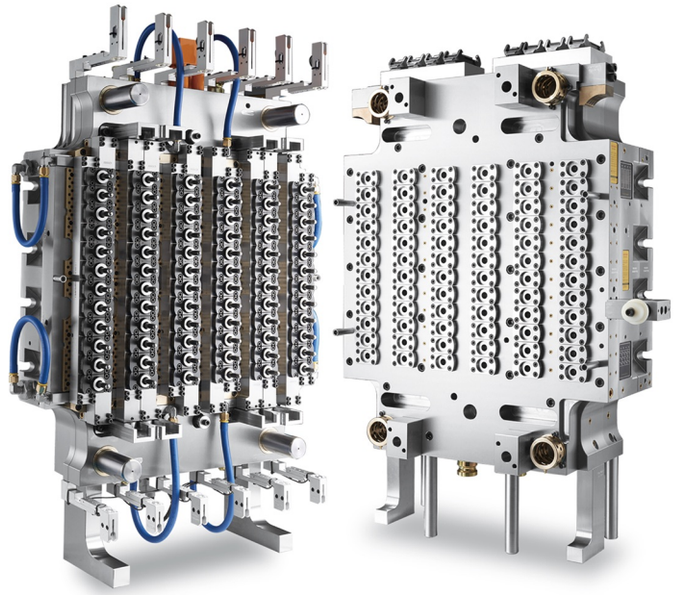
Stable Operation:

Advanced system design ensures minimal vibration during preform extraction and cooling.

INJECTION MOLD

(Integration & Machine Support)

The Kronce machine is designed to maximize the performance and longevity of your injection molds, supporting advanced mold technologies.



- **Extended Component Life:** Compatible with mold solutions featuring proprietary **technology**, extending component andoverall mold life.
- **Reduced Mold Maintenance:** Contributes to **extremely low maintenance costs** for your molds.
- **Optimized Cooling Support:** Machine design supports optimized mold cooling layouts for **fast cycle times** and **energy cost savings**.
- **Advanced Hot Runner Integration:** Seamlessly integrates with our **hot runner design,** ensuring excellent flow balance, low pressure drop, and minimal AA levels for superior preform.
- **Superior Preform Quality:** Ensures highest preform quality through precise process control and machine–mold synergy.

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