# Fast, Efficient, and Stable

### Optimized for High-Velocity Output

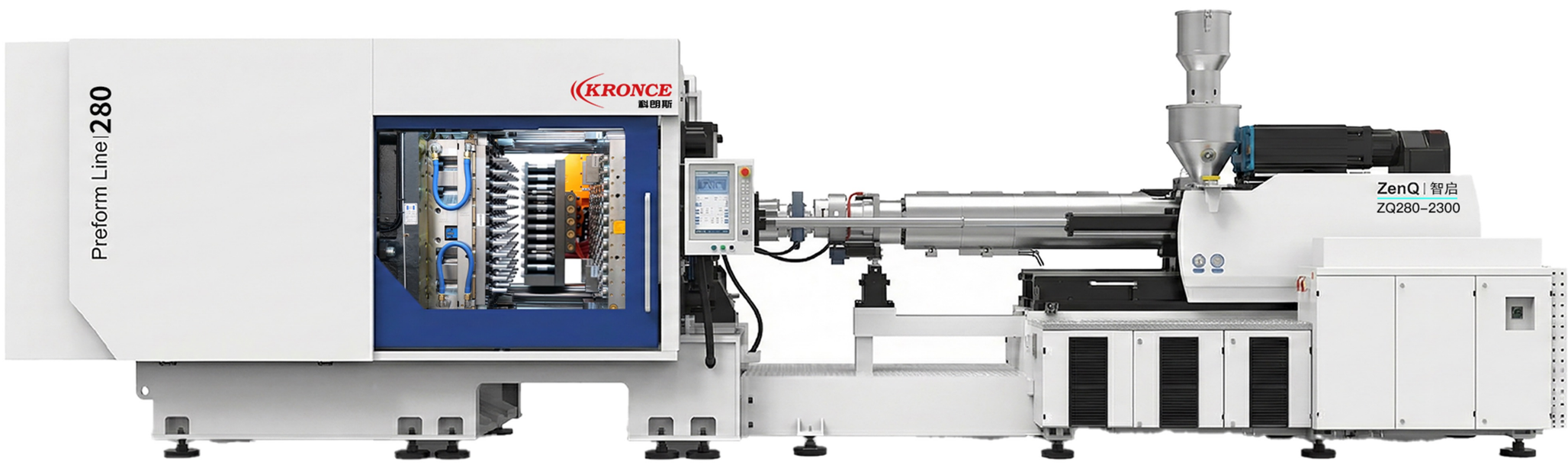
Designed for maximum production throughput. The synergy of a responsive control system and robust mechanics ensures higher hourly output, directly enhancing production efficiency.

### 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.




Symbol image (series)

## Product comparison

| | | | Throughput,max. | 450kg/h | 520kg/h | 720kg/h | 790kg/h |
|---|---|---|---|---|---|---|---|
| **ZenQ 280-1800** | Shot weight in PET | 1800g | | | | | |
| **ZenQ 280-2300** | | 2300g | | | | | |
| **ZenQ 360-4500** | | 4592g | | | | | |
| **ZenQ 360-5500** | | 5556g | | | | | |

# ZenQ 280-2300

| Clamping Unit | | 2800 |
|---|---|---|
| Clamping force | kN | 2800 |
| Distance between tiebars (h x v) | mm | 620X620 |
| Ejector stroke | mm | 180 |
| Opening stroke | mm | 660 |
| Mould height (min. – max.) | mm | 350–660 |
| Tie bar diameter | mm | 100 |
| Ejector force | kN | 135 |
| Mould weight, max. | [4] kg | 1500 |
| Mould weight moving side max. | [4] kg | 800 |

| Injection Unit | | 2300 |
|---|---|---|
| Screw diameter | mm | 85 |
| Nozzle diameter | mm | 20 |
| Nozzle contact surface radius | mm | 25 |
| Injection pressure | [1] bar | 108 |
| Shot weight, max. | [3] g | 2300 |
| Throughput, max. | [3] kg/h | 520 |

| General | | |
|---|---|---|
| Lock–to–Lock Time | s | 3.5 |
| Weight post cooling and housing | t | 2.5 |
| Take–out gripper load, max. | kg | 130 |
| Total length | m | 10.5 |
| Total width | m | 3.8 |
| Total height | m | 2.2 |
| Oil filling | l | 400 |
| Oil quality | | HLP 46, DIN 51524–2 |

| Cooling Circuit 1: Mold / Take-out | | |
|---|---|---|
| Inlet temperature | °C | 10 |
| Inlet pressure, max. | bar | 10 |
| Pressure drop, min | bar | 2 |
| Flow rate, max | [5] $m^3/h$ | 65 |
| Flange connection (internal thread) | | 2 x DN 50, 2 x 2" |

| Cooling Circuit 2: Machine | | |
|---|---|---|
| Inlet temperature | [2] °C | 35 |
| Flow rate | [2] $m^3/h$ | 20 |
| Inlet pressure, max. | bar | 5 |
| Pressure drop, min | bar | 2 |
| Female thread | inch | G 1 1/4 |

| Compressed Air | | |
|---|---|---|
| Inlet pressure | bar | 10 |
| Flow rate, max. | [1] $Nm^3/h$ | 15 |
| Hose connection | inch | 1 |

| Electrical connection | | |
|---|---|---|
| Power supply 1 / 2 | V | 380 |
| Frequency 1 / 2 | Hz | 50/60 |
| Main power cross section 1 | $mm^2$ | 75 |
| Main power cross section 2 | $mm^2$ | 25 |
| Main power 1 / 2 | kW | 166 |
| Main power 1 / 2 (mold) | kW | 30 |
| Protection class, IEC 60529 / UL50 | | IP54 / Typ 3 |

[1] depending on preform, mold & process

[2] with Option "Water inlet temperature 10C"

[3] PET with IV 0.83

[4] heavier mould weights on request

[5] depending on mold

Subject to technical alterations