

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.

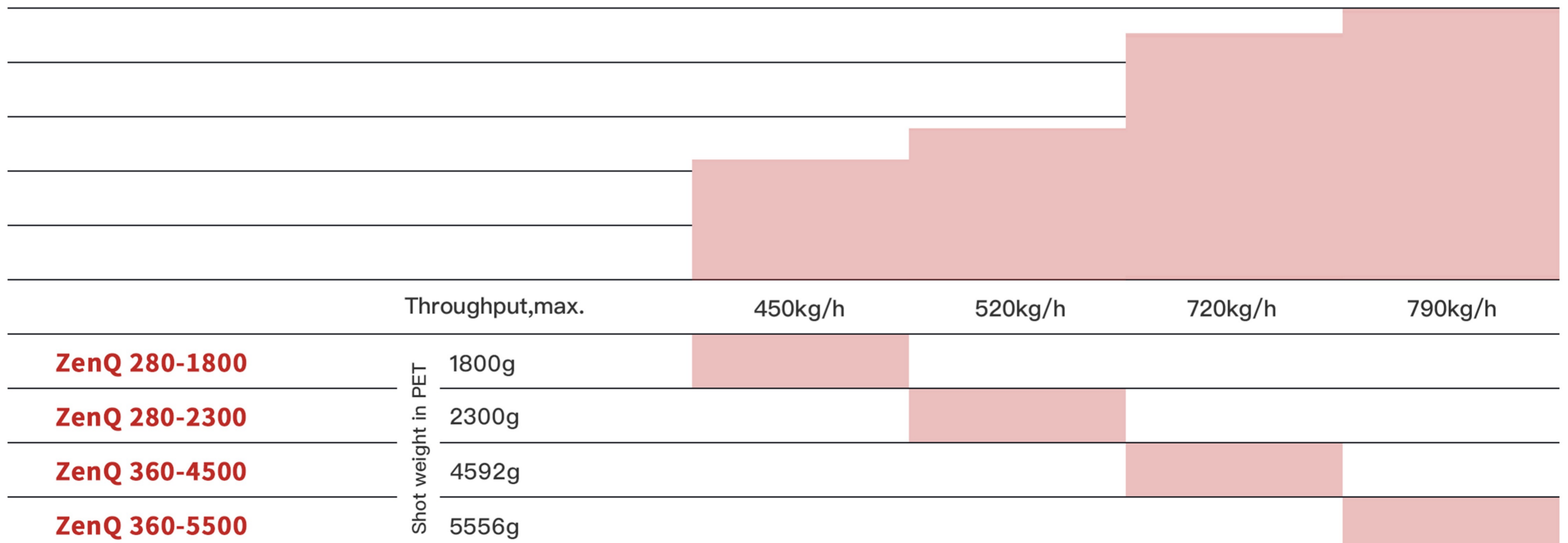
Unwavering Operational Stability

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



ZenQ 280-1800

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

1800

Screw diameter	mm	75
Nozzle diameter	mm	20
Nozzle contact surface radius	mm	25
Injection pressure	¹⁾ bar	139
Shot weight, max.	³⁾ g	1800
Throughput, max.	³⁾ kg/h	450

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

³⁾ PET with IV 0.83

⁵⁾ depending on mold

²⁾ with Option "Water inlet temperature 10C"

⁴⁾ heavier mould weights on request

Subject to technical alterations