

The flexible, all-electric high-performance injection moulding machine

e-motion

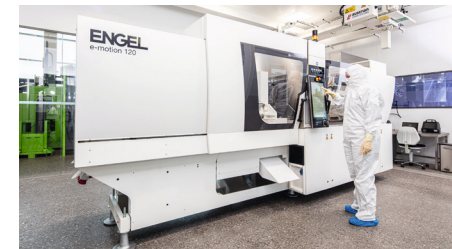
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Available machine sizes of the e-motion

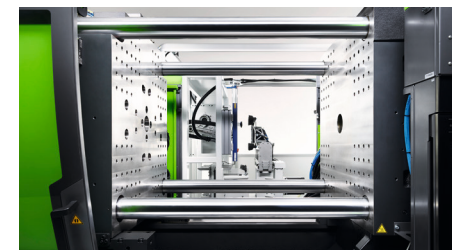
Injection unit	170	310	440	465	740	765	940	1065	1340	1640	2440	3440
Screw diameter mm	22	30	35	30	45	45	50	50	55	60	70	70
	25	35	40	35	50	50	55	55	60	70	80	80
Clamping unit	Clamping force kN US tons	Distance between tie bars mm										
e-motion 110	1100	120	510 x 460									
e-motion 160	1600	180	520 x 520									
e-motion 160 WP	1600	180	620 x 620									
e-motion 220	2200	240	620 x 620									
e-motion 220 WP	2200	240	650 x 650									
e-motion 280	2800	310	650 x 650									
e-motion 280 WP	2800	310	780 x 780									
e-motion 380	3800	420	780 x 780									
e-motion 380 WP	3800	420	920 x 920									
e-motion 420	4200	460	920 x 920									
e-motion 500	5000	550	920 x 920									
e-motion 550	5500	610	1050 x 1050									
e-motion 650	6500	720	1050 x 1050									

Powerful and customisable



Medical package

Purity without compromise: Meet the highest standards in cleanroom production with our e-motion in medical design. All potential sources of dust or contamination are sealed.



Packaging package

Achieve high output with low energy consumption even in thin-wall applications. With the packaging package, our e-motion is equipped for high continuous loads, short cycle times and maximum injection performance.



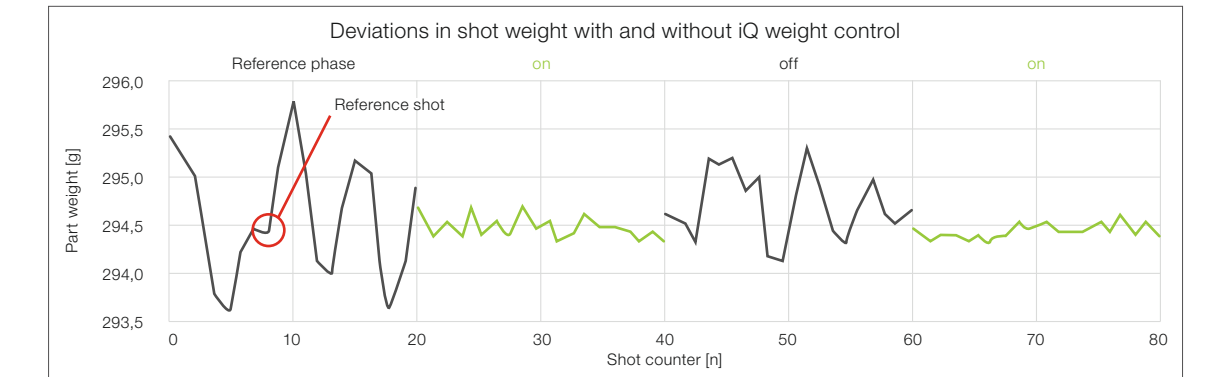
All-electric multi-component injection moulding

Produce injection moulded parts with two or more components on our fully electric e-motion. Various combinations of materials and shot weights are possible.

Compensate process fluctuations fully automatically

With our digital assistance system iQ weight control

The intelligent assistance programme iQ weight control regulates every injection process during production. It corrects the injection volume and calculates the switching point of the injection moulding process in the same shot, depending on the plastic viscosity. Fluctuations are compensated in each shot. This reduces the scatter of the moulded part weight by up to 85%. Your benefit is better process stability, increased part quality and process repeatability.



Fernholz achieves high efficiency in thin-wall injection moulding with fully electric e-motion

The performance of electric injection units is constantly increasing. Even challenging applications such as the lid of a thin-walled container can now be produced on all-electric injection moulding machines. This is a tangible advantage for injection moulders in the packaging segment, where the sharp rise in energy costs is putting a lot of pressure on margins. Fernholz uses the efficiency advantage of the all-electric e-motion to produce the lids of a dairy product with approx. 40% lower energy costs and higher output at the same time. Read here how ENGEL enables the all-electric production of thin-walled packaging with the e-motion.



The switch to an all-electric injection moulding machine has been a complete success: the machine delivers the necessary performance with significantly lower energy consumption. At the same time, we were able to significantly increase our output and improve product quality thanks to the high precision.



Til Fernholz, Operations Manager at Fernholz

Read the full story



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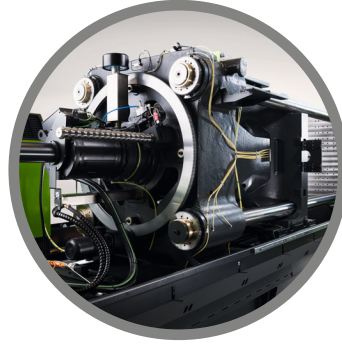


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Tailor-made for demanding requirements

Our e-motion is designed for maximum performance and great flexibility. It is available in a wide clamping force range up to 6,500 kN and in many versions. You get a machine designed to meet your requirements.

- Efficient and precise clamping unit as standard
- Even more dynamic, electric clamping drive for the shortest cycle times optional
- Wide-platen models with extra space in the mould area



90% less lubricant required and clean clamping unit.

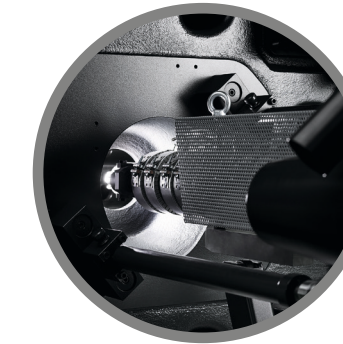
ENGEL's patented complete encapsulation of the toggle lubrication system helps you reduce maintenance efforts and lubricant consumption to a minimum.

- Clean injection moulded parts
- 90% reduction in lubricant consumption
- Particularly suitable for clean room applications

Complete production cells from a single source

Thanks to our extensive automation portfolio, you receive customised total solutions. You save valuable time and cash.

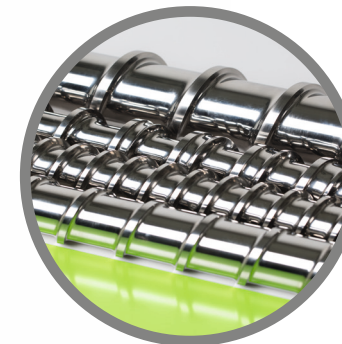
- CE-certified ex works
- Perfectly matched components
- One contact for machine and automation



The right injection units for every application.

The injection units of our e-motion are available in three performance levels. For multi-component applications, these can be combined in a variety of ways.

- Standard: Efficient and precise
- High: For applications requiring higher injection performance
- Premium: Maximum performance for the most demanding applications



Versatile use thanks to customised plasticising components.

We have extensive application and process technology knowledge and in-house development and production of our plasticising components. You will receive a solution tailored to your specific requirements:

- Suitable components and geometries for every material
- Safe processing even of high-performance plastics
- Durable screws and non-return valves thanks to our own hardening processes

Your production staff directly on board.

The e-motion is equipped with the latest CC300 control generation.

- Central control of all units
- Simple and intuitive operation
- Intelligent assistance systems



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