

The compact all-electric injection moulding machine

e-mac



EN 2023-09

Available machine sizes of the e-mac

Injection unit				50	170	265	465	765	1065	1565	2440
Screw diameter mm				15 18 20	22 25 30	25 30 35	30 35 40 45	40 45 50 55	45 50 55 60	55 60 70	60 70 80
Clamping unit	Distance between tie bars mm	US tons	kN								
e-mac 50	370 x 320	55	500								
e-mac 80	470 x 420	85	800								
e-mac 100	470 x 420	110	1000								
e-mac 130	530 x 530	145	1300								
e-mac 160	570 x 570	175	1600								
e-mac 180	570 x 570	195	1800								
e-mac 200	650 x 650	225	2000								
e-mac 220	650 x 650	245	2200								
e-mac 280	730 x 730	310	2800								
e-mac 380	830 x 830	420	3800								

Quickly available and individually adaptable



Stock machines

In times of rapidly changing economic circumstances, flexibility and responsiveness are trumps. With our e-mac stock machines, the path to an efficient injection moulding solution is only a few weeks away from you.



Medical package

Meeting the requirements of medical technology perfectly. This is possible with the new medical package for the e-mac series. Purity without compromise.



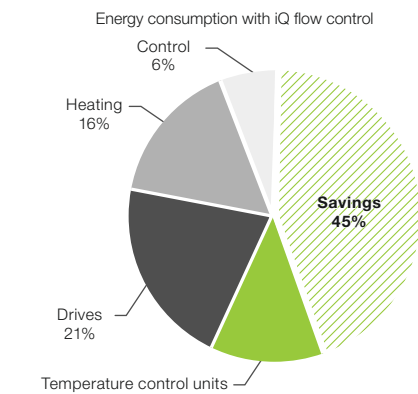
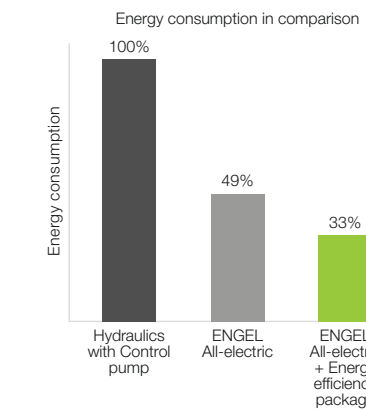
Automation

Fully integrated automation solutions from a single source. From simple sprue picker to the most complex production cells: ENGEL offers all solutions from a single source.

Efficient temperature control saves money

Save up to 45% electricity through temperature control with iQ flow control

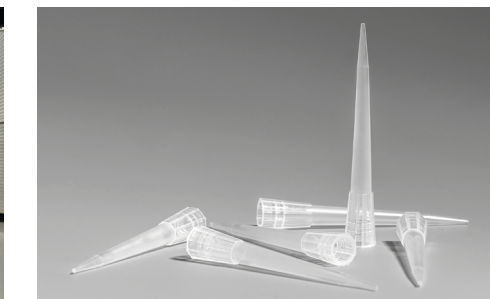
The combination of intelligent software, iQ flow control, the in-house flow control system e-floMo as well as own brand temperature control units e-temp enables massive energy savings of up to 45%. Only if the machine understands how much temperature control is really needed and can communicate this to the right devices, there is a strong potential to reduce the power consumption of your injection moulding machine. This is how you manage to run probably the most efficient machine system on the market.



Learn more about iQ products from ENGEL

Precision, efficiency and cleanliness combined in a minimal footprint

The all-electric machine concept of the e-mac inspires above all with its versatile application possibilities. The injection dynamics are individually adapted to the needs of your product. A hydraulic unit can be integrated into the frame to save space. In combination with the ENGEL compact cell, a fully-fledged, flexible and clean production unit is created with the smallest footprint. Experience the advantages of the e-mac series in the video below, using pipette tips as an example.



Here to the video



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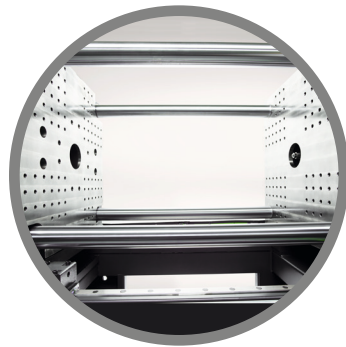


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ENGEL AUSTRIA GmbH | Ludwig-Engel-Straße 1 | 4311 Schwertberg, Austria
Tel. +43 50 620 0 | Fax +43 50 620 3009 | sales@engel.at | www.engelglobal.com

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Small machine for big tools.

Our e-mac has the largest tie bar spacing in its class and at the same time an extremely short, space-saving design.

- Higher output per m²
- Higher flexibility in production
- Ideal for large moulds with low clamping force requirements



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



Your production staff directly on board.

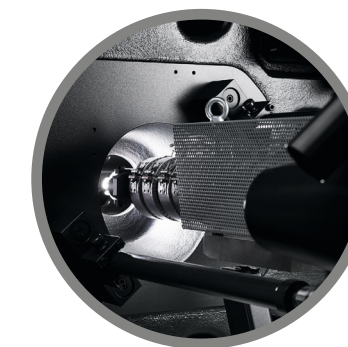
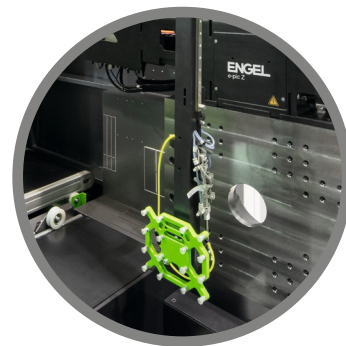
The e-mac is equipped with the latest CC300 control generation.

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

Compact production cells from a single source.

Thanks to its small footprint, the e-mac is the perfect basis for efficient production systems in the smallest of spaces.

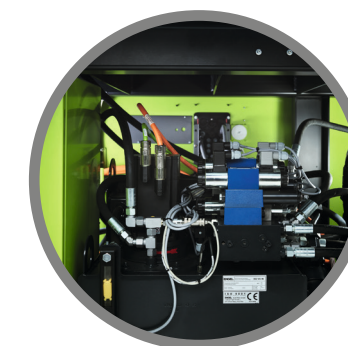
- More systems in the same space
- Particularly advantageous for expensive clean room space
- One contact for machine and automation



The right injection unit for every application.

The new electric injection units are available in three variants:

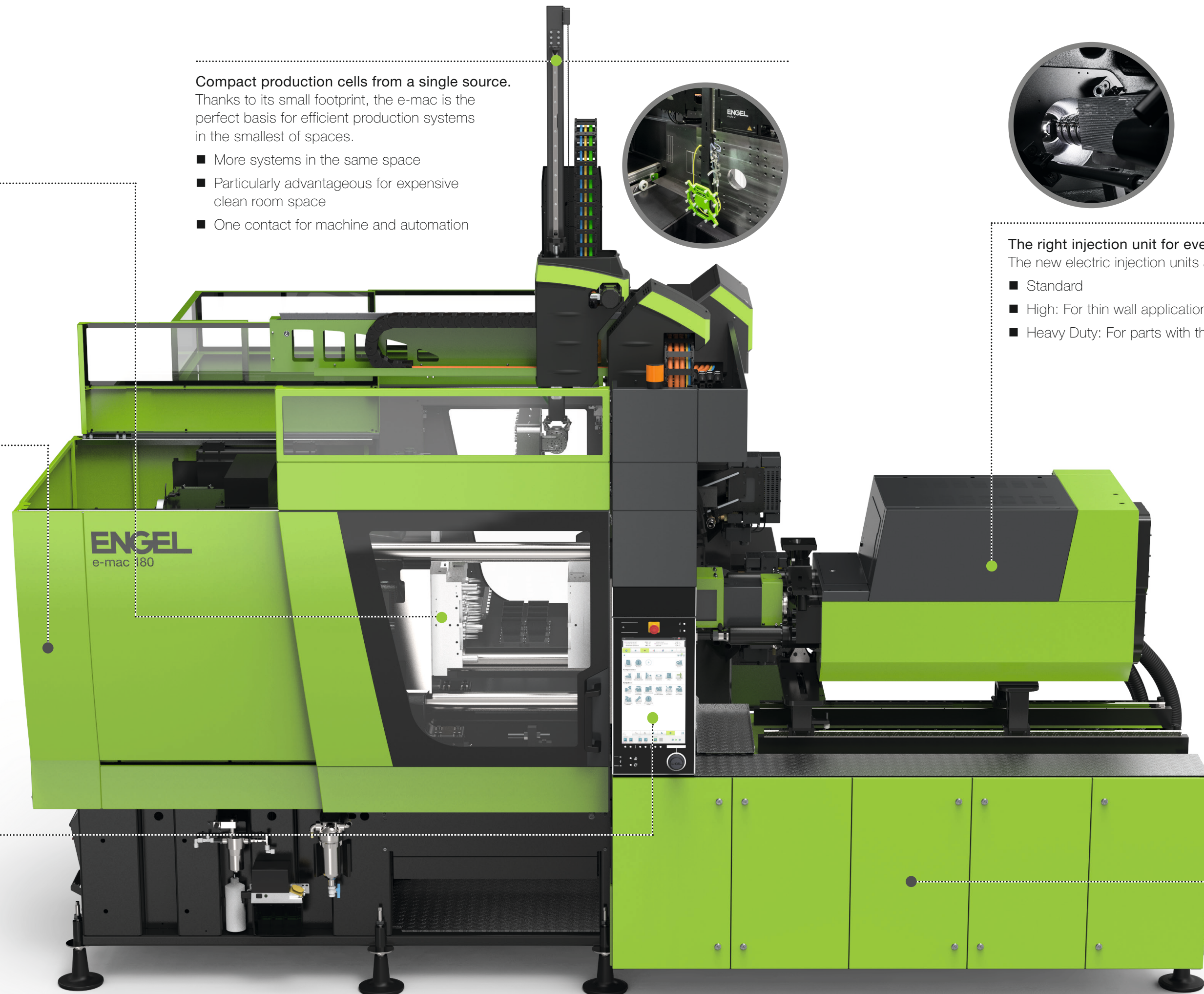
- Standard
- High: For thin wall applications
- Heavy Duty: For parts with thick walls



Resource-optimised hydraulic solution on board.

A servo-hydraulic unit is optionally available for each machine size. This is fully integrated into the machine and offers the optimum solution with regard to:

- Space requirement: No additional floor space required
- Energy efficiency: Servo hydraulics without additional hydraulic accumulator
- Resource efficiency: Minimum amount of oil in the machine to meet tool requirements



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