

The compact all-electric injection moulding machine

e-mac



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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



Combining compactness, flexibility and efficiency with high performance.

Thanks to the new, particularly powerful clamping drive, the e-mac HIGH opens up new potential for high-volume injection moulding production.

- Significantly shorter cycle times of up to 3 s possible
- Optimum mould movement with iQ motion control
- Fast ROI thanks to high output with lower investment



Your production employee directly on board.

The CC300 and CC300 plus control units offer excellent ergonomics, a clearly structured menu and a high level of operating safety.

- Intuitive operation
- Intelligent assistance systems
- Centralised control of all units



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





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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

Available machine sizes of the e-mac series

Injection unit				50	165	265	465	765	1065	1565	2440	3440
Screw diameter mm				15 18 20	20 22 25 30	25 30 35	30 35 40 45	40 45 50 55 55	45 50 55 60	55 60 70	60 70 80	70 80 90
Clamping unit	Clamping force		Tie-bar distance									
	kN	US tons	mm									
e-mac 50	500	55	370 x 320									
e-mac 80	800	85	470 x 420									
e-mac 100	1000	110	470 x 420									
e-mac 130	1300	145	530 x 530									
e-mac 160	1600	175	570 x 570									
e-mac 180	1800	195	570 x 570									
e-mac 200	2000	225	650 x 650									
e-mac 220	2200	245	650 x 650									
e-mac 280	2800	310	730 x 730									
e-mac 380	3800	420	830 x 830									
e-mac 500	5000	550	920 x 920									

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.



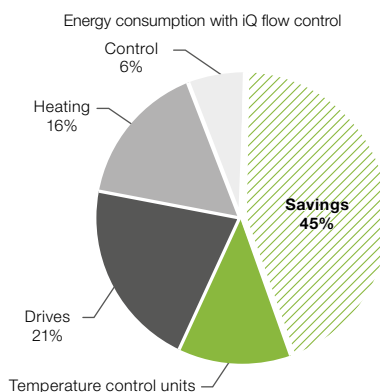
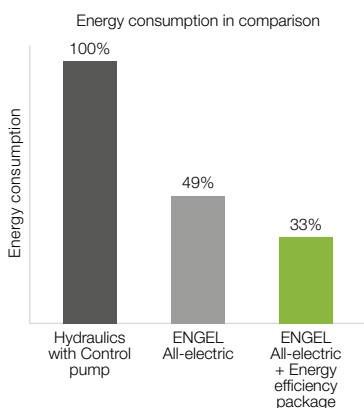
e-mac SLIM

For maximum shopfloor productivity: The new SLIM version of the e-mac is up to 16 % narrower than the already compact standard version. The tie-bar spacing and mould area remain as generously dimensioned as before.

Efficient temperature control saves money

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

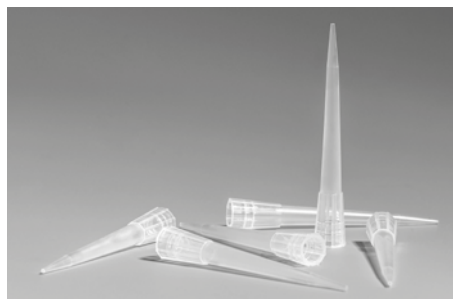
The combination of intelligent software, iQ flow control, the in-house flow control system e-floMo as well as own brand temperature control units e-temp enables massive energy savings of up to 45%. Only if the machine understands how much temperature control is really needed and can communicate this 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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