



| ROMI EL 75 | ROMI EL 300

PLASTIC INJECTION MOULDING MACHINES

ROMI EL SERIES

INNOVATION + QUALITY

Romi: Since 1930 producing high technology.

Since its foundation, the company is recognized by the focus on creating new products and innovative solutions, putting Romi at the forefront of technological leadership among big manufacturers of plastic processing machines. ROMI's industrial complex is one of the most modern and productive in the field of machine manufacturing and foundry.

Continuous investments in Research & Development result in products with state-of-the-art technology.

The high technology applied to Romi machines offer highly reliable products, with high accuracy, efficiency and great flexibility for several types of machining processes.

Romi R&D is focused on increasing competitiveness for its customers.

Present throughout Brazil and in over 60 countries.

Romi covers all domestic territory through its sales subsidiaries network fully prepared to support customers supplying an extensive range of services from marketing to after sales.

The international market is covered by subsidiaries located in the United States, Mexico and Europe and also by its dealers network located in strategic logistic centres around the globe, completely capable of serving customers in 5 continents.



Manufacturing Unit
Plastic Processing Machines



ROMI EL SERIES



| ROMI EL 75



| ROMI EL 300

Romi Electric Injection Moulding Machines:
High speed, precision, repeatability
and short cycles.

The ROMI EL Series was specially developed to make parts for all high demanding applications with precision, speed and lower energy consumption.

Perfect combination of technology, accuracy and productivity for short cycles or technical parts.



CE Certified.



ROMI EL SERIES

- ✓ High plasticising capacity.
- ✓ Larger mould area (ROMI EL 300 - 730 x 730 mm between tie bars).
- ✓ Simultaneity of movements. Save up to 30% in the cycle times.
- ✓ Up to 90% reduction of energy consumption.
- ✓ Centesimal accuracy of all movements through optical encoder system servomotors and use of linear guides.
- ✓ Mould fixing by SPI or "T" slots.
- ✓ Mould area clean and free of contaminants: Platen running on linear guides, no contact with the tie bars.
- ✓ Up to 80% less generation of ambient heat.
- ✓ Specifications in accordance with EUROMAP standards.



(1)

All-electric driven with lower energy consumption by up to 70%¹ and 90%².



CONSTRUCTIVE DIFFERENTIALS

When compared to variable displacement pump (1) and fixed displacement pump (2)



Movements through servomotors.



Recirculating ball screw and linear guides: minimal friction, more speed and precision.



Mould area clean and free of contaminants: Platen running on linear guides, no contact with the tie bars.



Self-lubricating bushes.



Automatic tonnage adjustment.



Hydraulic Unit for hydraulic cores as standard.

Speed Version - High injection speed and faster cycle.



- ✓ Larger mould area: between tie bars 730 x 730 mm (1040 x 1040 mm).
- ✓ Injection speed: 1,070 cm³/s (350 mm/s) screw L/D 24:1.
- ✓ High plasticising capacity - 88 g/s PS.
- ✓ Simultaneity of movements: up to 30% more productivity.
- ✓ Injection while clamping.
- ✓ Integrated Solutions for multi-material, PET, IML and side robot.

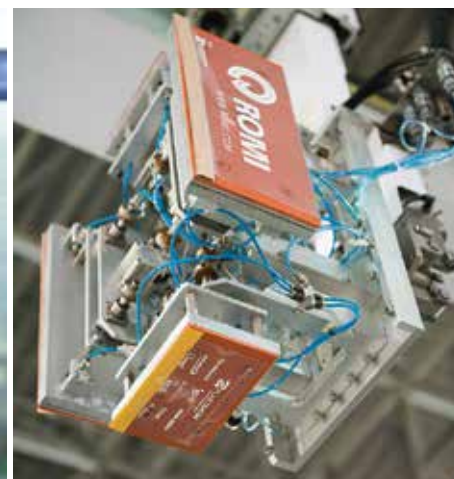


FAST CYCLING AND PERFECT FOR THIN WALL APPLICATIONS



ROMI EL 300 SPEED VERSION

Resources for complete automation with cartesian robots, side robots and IML application (*in mold label*).





Technology, productivity and efficiency for the production of PET bottles and containers.



ROMI EL 300 PET



Versatility and innovation for productivity.

Turn key solution: ancillaries and moulds available as an optional.



High-performing mould designed for PET injection.

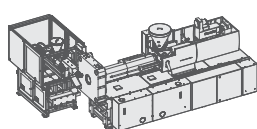
Speed and accuracy to ensure large-scale productivity with high quality.

INTEGRATED SOLUTIONS

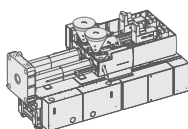
MULTI-COMPONENT LINE

Developed especially for processing multicomponent and multicolour parts.

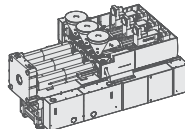
Examples of multicolored or multicomponent assembly units:



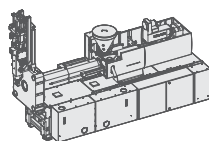
Side mounted



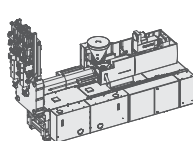
Double parallel



Treble parallel



Vertical



Double vertical plus main horizontal



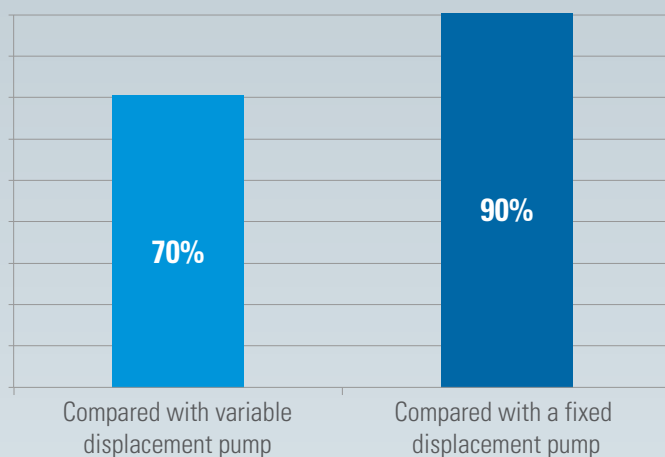
Rotating plate



Up to 70%¹ and 90%² lower power consumption.
When compared to variable displacement pump (1) and fixed displacement pump (2)



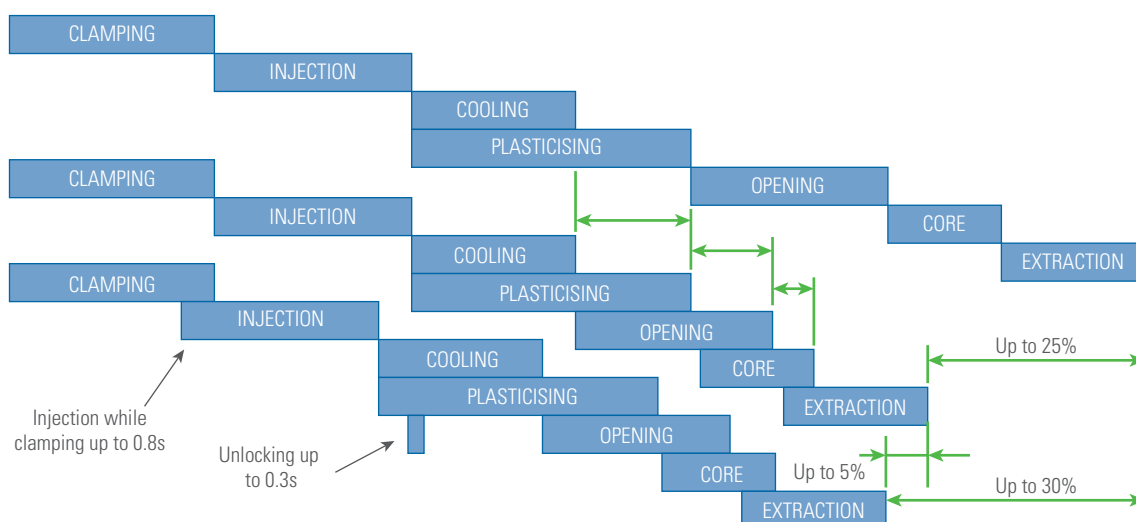
ROMI EL Series - Reduction of energy consumption



Power Rating according to
EUROMAP 60.1 (cycle I)

ENERGY SAVING

CONVENTIONAL PROCESS



CONVENTIONAL PROCESS - FULLY SIMULTANEOUS MOVEMENTS

ROMI EL - FULLY SIMULTANEOUS MOVEMENTS



ROMI CM20

Main features

- Touch screen 19" full HD resolution.
- High processing speed.
- Memory for 2,000 recipes.
- USB communication and TCP/ IP network.
- Integration Management System Production.
- Courses mm or cc injection.
- Specific injection pressure.
- Speed in rpm or mm/s.
- User friendly graphic display.
- Access to all settings in two taps.
- Multimedia resources (on screen manual, instructions and training notes).
- Management functions: quality and statistical process controls.



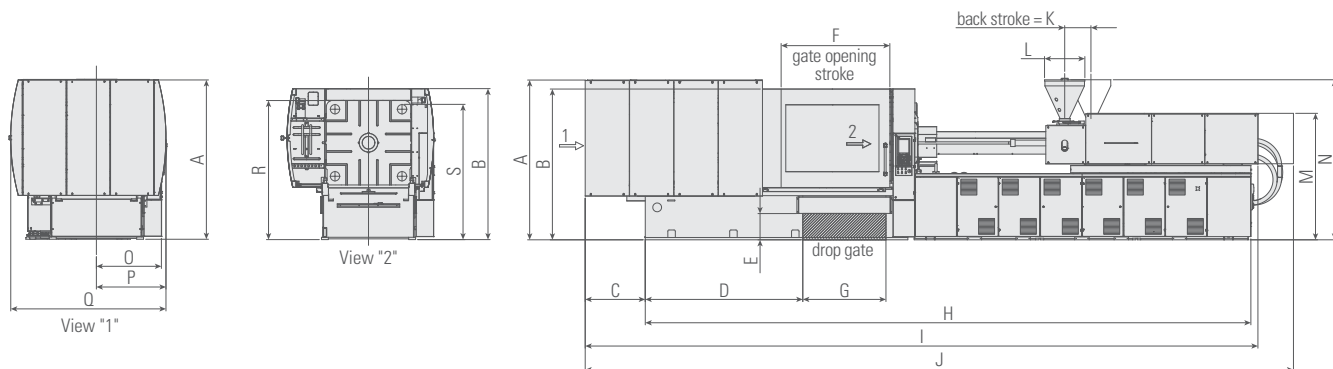
Technical specifications		ROMI EL 75			ROMI EL 300				ROMI EL 300 (Speed Version)	
Clamping unit										
Mould clamping force	t	75			300				300	
Maximum opening stroke	mm	360			650				650	
Mould height (maximum x minimum)	mm	420 x 130			730 x 200				730 x 200	
Minimum mould size	mm	310 x 310			540 x 540				540 x 540	
Maximum mould size	mm	600 x 420			1.040 x 730				1.040 x 730	
Platen size (horizontal x vertical)	mm	600 x 600			1.040 x 1.040				1.040 x 1.040	
Space between tie bars (horizontal x vertical)	mm	420 x 420			730 x 730				730 x 730	
Maximum opening stroke	mm	780			1.380				1.380	
Hydraulic ejector	Ejection force	t	3,0			6,0				6,0
	Stroke	mm	100			200				200
Injection unit										
EUROMAP			170			1.330				1.330
Screw diameter	mm	25	30	35	50	55	60	65	60	
Screw ratio	L/D	24	20	17	24	22	20	18,5	20	
Maximum injection volume	cm ³	54	78	106	550	665	791	929	791	
Maximum injection weight (PS)	g	50*	75*	100*	520*	625*	745*	875*	745*	
Maximum injection pressure bar	bar	2.800	2.200	1.620	2.420	2.000	1.680	1.430	1.535	
Injection rate	cm ³ /s	147	212	289	423	511	608	715	1.000	
Injection speed	mm/s	300			215				350	
Plasticizing capacity (1)	g/s	6	10	17	35	46	60	76	70	
Screw speed (maximum)	rpm	400			280				320	
Electrical data										
Heating zones (including nozzle)		4			5				5	
Heater band power	kW	11,0			25,8				25,8	
General data										
Dry cycle (EUROMAP 6)	s	1,5			1,9				2,4	
Dimensions (L x W x H) (2))	m	4,46 x 1,66 x 2,05			7,15 x 2,02 x 2,53				7,15 x 2,02 x 2,53	
Machine weight (approximate)	kg	4.850			15.000				15.000	

(1) Values estimated based on Polystyrene (PS) at 220°C

(2) Length with injection unit retraction and height without levelers average.

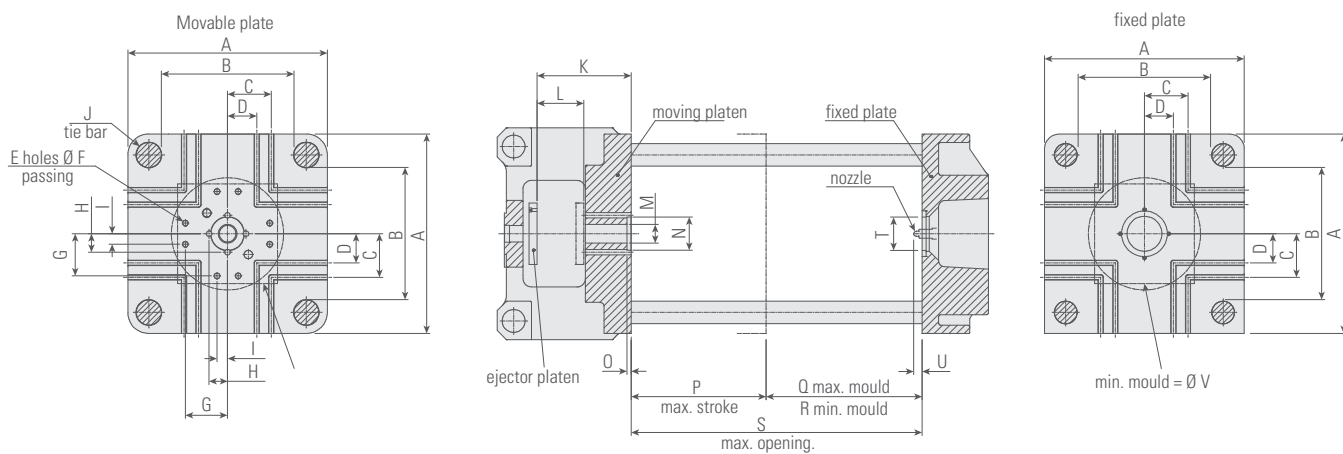
(*) Approximated values.

MACHINE DIMENSIONS



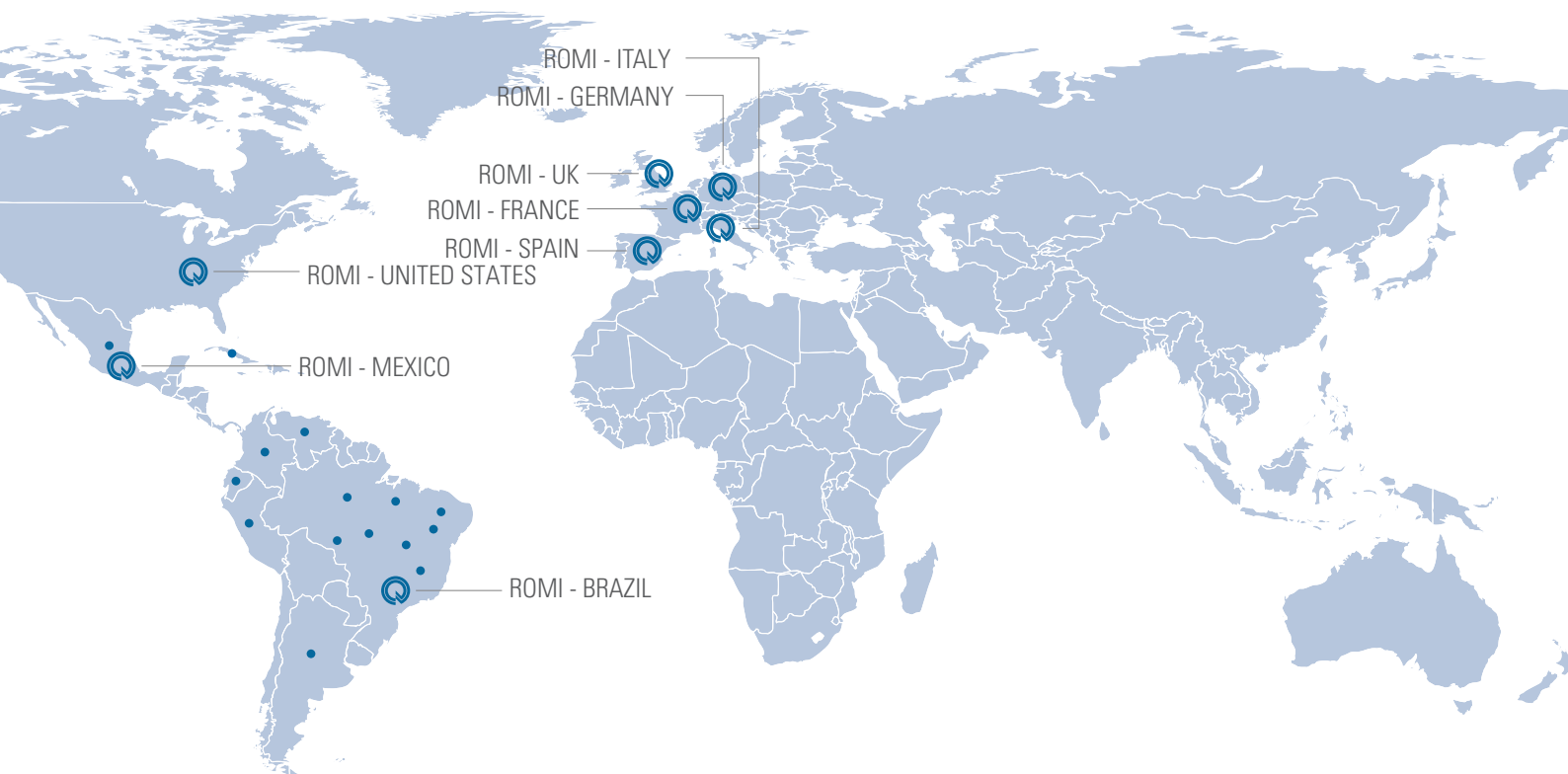
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
EL 75	1900	2010	590	900	420	800	700	3870	4460	4480	330	382	1895	2046	650	760	1645	1625	1595
EL 300	2287 (2525)	2182	852	1685	420	1192	1000	6123	6975	7180	420	566	2300	2435	875	912	2022	2015	1968

PLATEN LAYOUT



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
EL 75	600	420	140	70	4	27	-	88,9	-	60	285	100	100	125	20	360	420	130	780	125	40	310
EL 300	1040	730	280	140	12	27	203,2	88,9	50,8	108	485	200	88,9	160	20	650	730	200	1380	160	40	540

WORLDWIDE PRESENCE



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United States



Germany



UK



France



Spain



Italy



Germany - B+W



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ISO 9001:2008
Certificate No. 31120



ISO 14001:2004
Certificate No. 70671

Specifications subject to change without notice.
Check availability and technical characteristics of the products to your country.