



| ROMI EN 70 | ROMI EN 100 | ROMI EN 170 | ROMI EN 220 | ROMI EN 300
| ROMI EN 380 | ROMI EN 450 | ROMI EN 600 | ROMI EN 800 | ROMI EN 1100

PLASTIC INJECTION MOULDING MACHINES

ROMI EN 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 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 EN SERIES



| ROMI EN 70 | ROMI EN 100 | ROMI EN 170 | ROMI EN 220 | ROMI EN 300
| ROMI EN 380 | ROMI EN 450 | ROMI EN 600 | ROMI EN 800 | ROMI EN 1100

**Versatility,
technology, precision
and robustness.**

The ROMI EN Series is designed to provide excellent performance combining high technology, productivity and low energy consumption.

More competitiveness and versatility to your process.



CE Certified.

- ✓ **"Stop and Go"** system. Servo pump driven fixed displacement pump for high precision and repeatability.
- ✓ Higher injection volumes across the range.
- ✓ Higher injection speed and torque.
- ✓ Overlap of movements on the clamping side.



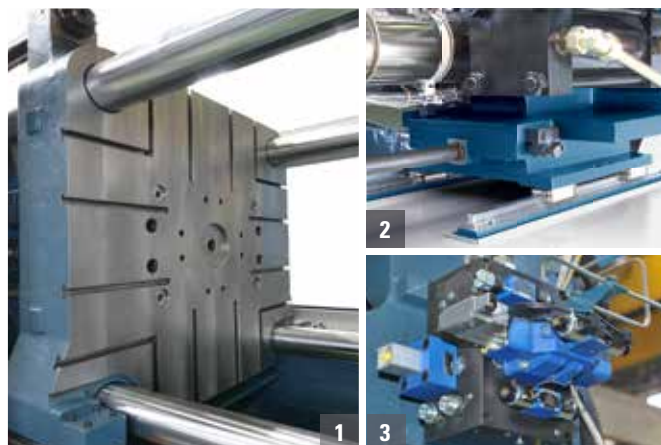
Self-lubricating bushing



Peripherals' power supply

ROMI EN 70 / 100 / 170 / 220 / 300 / 380 / 450

- 1 Mould area clean and free of contaminants: Platen running on linear guides, no contact with the tie bars.
- 2 Linear guides on injection and clamping units, minimal friction, more speed and precision.
- 3 Full overlap on clamping movements, ejectors and core control. Short hydraulic circuit improves accuracy and repeatability.



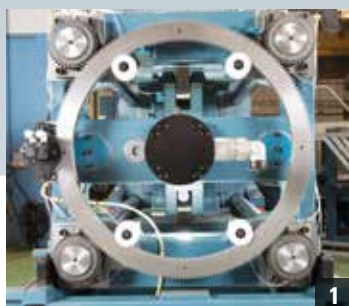
Faster, stronger and more precise,
ROMI EN range extended.



CE Certified.

- ✓ Larger mould area.
- ✓ Clean mould environment (Clean Room).
- ✓ Simultaneity of movements for clamping and plasticising.
- ✓ Higher speed, accuracy and repeatability.

- ✓ High injection speed
- ✓ High plasticising capacity and injection volume.
- ✓ Lower energy consumption.
- ✓ Driven by 2 servo pumps.
- ✓ Minimum noise level.



1



2



3



4

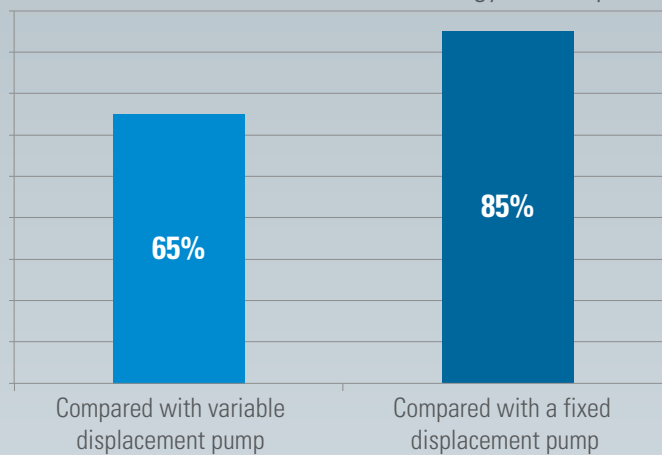
ROMI EN 600 / 800 / 1100

- 1 Automatic tonnage adjustment.
- 2 Double servo pumps giving full simultaneity, overlap of clamping and injection movements (EN600 to EN1100).
- 3 Hydraulic cores installed on the fixed and moving platens, with or without pressure relief (optional).
- 4 Offline system for filtering and hydraulic cooling oil (EN 600 to EN 1100).

Up to 65% ⁽¹⁾ and 85% ⁽²⁾ lower power consumption.
When compared to variable displacement pump ⁽¹⁾ and fixed displacement pump ⁽²⁾



Romi EN Series - Reduction of energy consumption



ENERGY SAVING

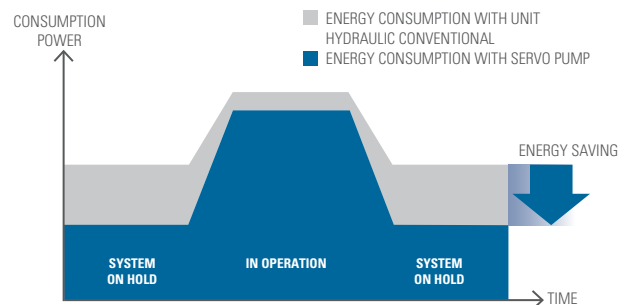
Stop and Go System: The perfect combination of servo driven technology, high-precision hydraulics, robust mechanics, fast control and intelligent software.

This system ensures minimum power consumption and greater equipment durability, as well as excellent precision in movement. The power consumption is proportional to the demand for speed and hydraulic pressure in the movements without any waste.

- Energy consumption next to zero during idling times (cooling and removal of parts).

- In standby mode, the energy consumption for heating is lower than 1 kWh in the ROMI EN models up to 380 t and below 3 kWh for models from 450 t.

ENERGY SAVING PRINCIPLE



- Excellent accuracy and repeatability, greatly reducing part weight standard deviation, which can save up to 2.5% in the consumption of raw material.



ROMI EN PVC VERSION

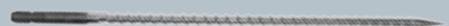
SPECIAL PROJECTS



High performance fans for better temperature control, avoiding material degradation.

ROMI EN PET

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



Plasticising screw with special profile for Rigid PVC.



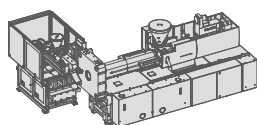
Turn key solution: ancillaries and moulds available as an optional.

INTEGRATED SOLUTIONS

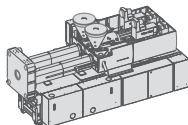
MULTI-COMPONENT LINE

Developed especially for processing multicomponent and multicolour parts.

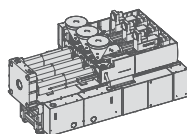
Examples of multicolored or multicomponent assembly units:



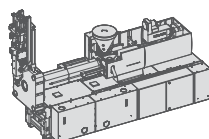
Side mounted



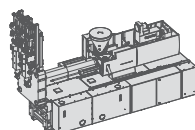
Double parallel



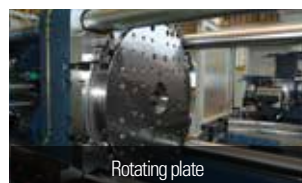
Treble parallel



Vertical



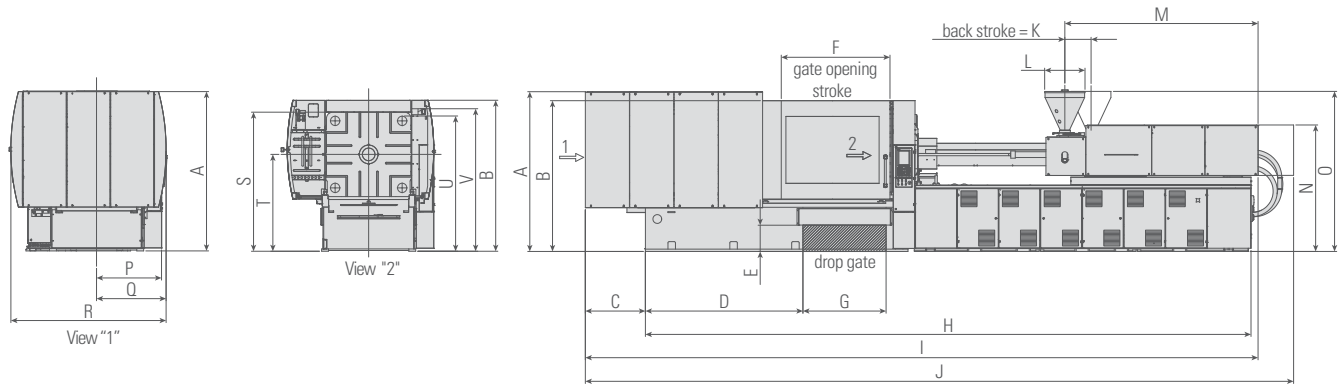
Double vertical plus
main horizontal



Rotating plate



MACHINE DIMENSIONS

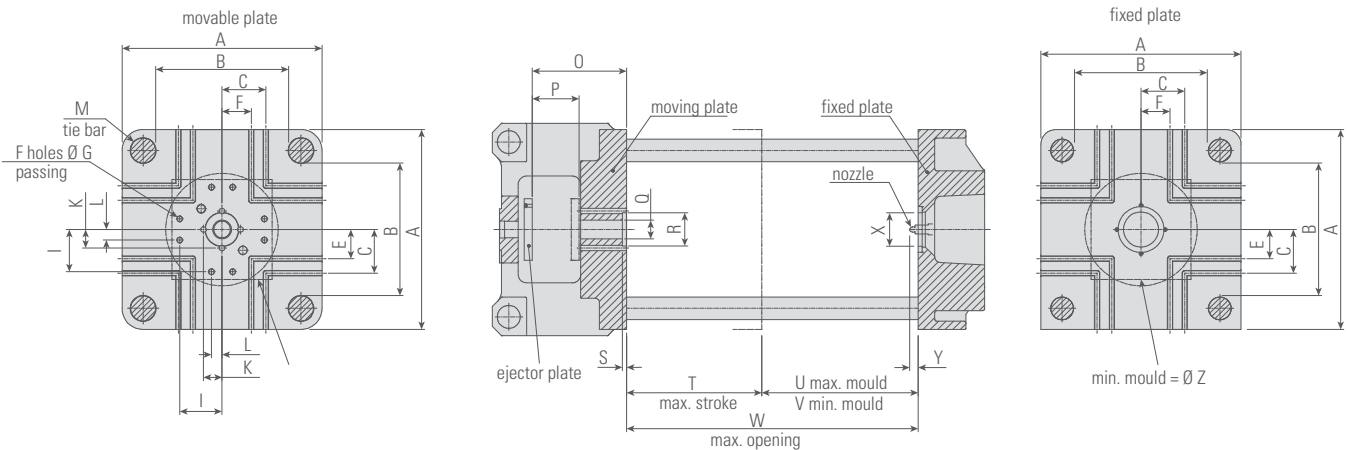


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
EN 70	1712	-	518	902	445	800	700	3340	4360	4440	300	576	1020	-	2180	590	733	1500	1580	1310	1550	-
EN 100	1810	-	608	945	420	860	800	3710	4620	4820	300	576	1020	-	2245	653	793	1626	1640	1320	1596	-
EN 170	2240	2140	860	950	434	900	800	4361	5025 ⁽¹⁾ 5275 ⁽²⁾	5355 ⁽¹⁾ 5605 ⁽²⁾	330	576	1190 1340	-	2260	703	797	1653	1685	1335	1650	-
EN 220	2260	-	930	1235	435	1150	900	4700	5840	6170	330	576	1340	-	2300	762	850	1720	1795	1380	1755	-
EN 300	2290	-	850	1685	365	1190	1000	5400	6700	7030	330	630	1610	-	2468	800	895	1900	1935	1455	1890	-
EN 380	2290	-	1067	1810	420	1192	1000	5700	7352	7772	420	649	1726	-	2554	845	915	1962	2010	1495	1967	-
EN 450	2448	-	1094	1980	420	1530	1260	6360	7950	8450	500	580	1726	-	2532	912	988	2118	2162	1577	2112	-
EN 600	2560	2415	960	2520	420	1740	1330	9686	10330 ⁽¹⁾ 10760 ⁽²⁾	10900 ⁽¹⁾ 11330 ⁽²⁾	570	646	2960 ⁽¹⁾ 3090 ⁽²⁾	2025	2560	1040	1130	2530	2225	1550	2165	2285
EN 800	2730	2580	795	3200	420	2100	1420	10575	11385 ⁽¹⁾ 11930 ⁽²⁾	12085 ⁽¹⁾ 12630 ⁽²⁾	700	646	3090 ⁽¹⁾ 3435 ⁽²⁾	2025	2680	1172	1260	2800	2410	1630	2335	2440
EN 1100	2860	2715	800	3850	420	2200	1600	11435	12870 ⁽¹⁾ 13070 ⁽²⁾	13570 ⁽¹⁾ 14500 ⁽²⁾	700	646	3435	2015	2680	1365	1435	3145	2540	1630	2460	2580

(1) Dimension to the smallest option of Euromap. (2) Dimension to the biggest option of Euromap.

PLATEN LAYOUT

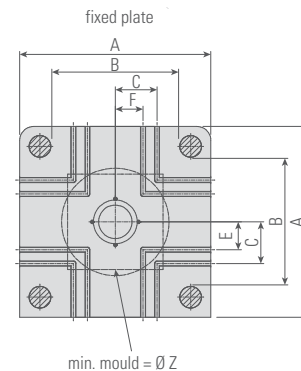
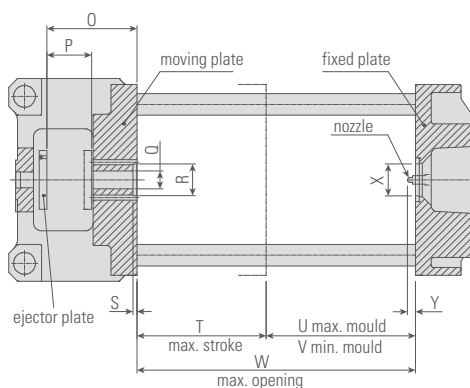
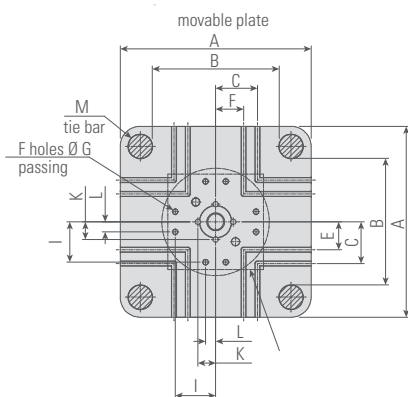
ROMI EN 70 ROMI EN 100 ROMI EN 170 ROMI EN 220
ROMI EN 300 ROMI EN 380 ROMI EN 450



	A	B	C	E	F	G	I	K	L	M	O	P	Q	R	S	T	U	V	W	X	Y	Z
EN 70	540	360	105	-	4	27	-	88,9	-	60	222	100	79,5	125	20	360	360	130	720	125	40	290
EN 100	640	420	140	70	4	27	-	88,9	-	72	272	130	79,5	125	20	420	460	160	880	125	40	340
EN 170	700	470	140	70	4	27	-	88,9	-	82	300	150	89,5	125	20	460	500	160	960	125	40	390
EN 220	830	560	140	70	4	27	-	88,9	-	94	356	190	89,5	160	20	560	630	200	1190	160	40	460
EN 300	960	650	210	140	12	27	203,2	88,9	50,8	108	453	225	89,5	160	20	650	750	200	1400	160	40	540
EN 380	1040	700	280	140	12	27	203,2	88,9	50,8	122	478	225	89,5	160	20	750	750	200	1500	160	40	585
EN 450	1170	800	280	140	12	27	203,2	88,9	50,8	132	553	280	89,5	200	20	880	880	250	1760	200	40	665

PLATEN LAYOUT

ROMI EN 600 | ROMI EN 800 | ROMI EN 1100



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
EN 600	1350	920	350	269	-	8	27	355,6	203,2	140	76,2	50,8	152	-	655	320	53	200	20	1000	1000	300	2000	200	40	650	4	53
EN 800	1560	1060	420	350	127	8	27	355,6	203,2	140	76,2	50,8	175	508	735	360	160	250	20	1170	1170	300	2340	250	40	740	12	53
EN 1100	1820	1250	420	350	127	-	-	355,6	-	140	76,2	-	205	508	925	435	160	250	20	1370	1370	400	2740	250	40	870	12	53

Technical specifications		ROMI EN 70				ROMI EN 100				ROMI EN 170						ROMI EN 220						
Clamping unit																						
Mould clamping force		t	80				130				170						220					
Maximum opening stroke		mm	360				420				460						560					
Mould height (maximum x minimum)		mm	360 x 130				460 x 160				500 x 160						630 x 200					
Minimum mould size = square		mm	265 x 265				300 x 300				345 x 345						415 x 415					
Minimum mould size = round		mm	290				340				390						460					
Maximum mould size		mm	540 x 360				640 x 420				700 x 470						830 x 560					
Platen size (horizontal x vertical)		mm	540 x 540				640 x 640				700 x 700						830 x 830					
Space between tie bars (horizontal x vertical)		mm	360 x 360				420 x 420				470 x 470						560 x 560					
Column diameter		mm	60				72				82						94					
Maximum opening stroke		mm	720				880				960						1190					
Hydraulic ejector	Ejection force	t	3,5				3,5				3,5						5,5					
	Stroke	mm	100				130				150						190					
Injection unit																						
EUROMAP			370				370				650			960			960			1200		
Screw diameter		mm	30	35	40	45	30	35	40	45	45	50	55	50	55	60	50	55	60	55	60	65
Screw ratio		L/D	25	22	20	18	25	22	20	18	22	20	18	22	20	18	22	20	18	22	20	18
Maximum injection volume		cm³	127	173	226	286	127	173	226	286	326	402	487	432	522	622	432	522	622	641	763	896
Maximum injection weight (PS) (*)		g	120	165	215	270	120	165	215	270	305	380	460	406	491	585	406	491	585	605	720	845
Maximum injection pressure bar		bar	2670	1960	1500	1200	2670	1960	1500	1200	2015	1630	1350	2240	1850	1550	2240	1850	1550	1900	1600	1350
Injection rate (1)		cm³/s	85	115	152	192	140	190	250	315	200	250	300	230	275	330	230	275	330	275	330	385
Plasticising capacity (2)		g/s	8	13	19	26	14	21	30	43	24	32	43	37	50	64	37	50	64	42	53	68
Screw speed (maximum)		rpm	300 rpm				470 rpm				260 rpm			300 rpm			300 rpm			250 rpm		
Max. hydraulic pressure		bar	175				175				190			190			190			190		
Oil tank capacity		l	170				240				370			370			430			430		
Main servo		kW	11				15				31,4			31,4			30			37		
Heater band power		kW	10				10				14			16,5			16,5			19,3		
Dry cycle (EUROMAP 6)		s	1,6				1,9				2			2			2,2			2,2		
Dimensions (L x W x H) (3)		m	4,44 x 1,50 x 2,18				4,82 x 1,63 x 2,25				5,35 x 1,65 x 2,26			5,25 x 1,66 x 2,26			5,60 x 1,65 x 2,30			5,84 x 1,72 x 2,30		
Machine weight (approximate)		kg	3700				5100				6000			6200			8000			8800		

(1) Values cannot be guaranteed with maximum injection pressure.

(2) Values estimated based on Polystyrene (PS) at 220°C to 250°C and maximum plasticizing speed.

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

(*) Approximated values.

Technical specifications			ROMI EN 300						ROMI EN 380						ROMI EN 450					
Clamping unit																				
Mould clamping force		t	300						380						450					
Maximum opening stroke		mm	650						750						880					
Mould height (maximum x minimum)		mm	750 x 200						750 x 200						880 x 250					
Minimum mould size = square		mm	480 x 480						520 x 520						590 x 590					
Minimum mould size = round		mm	540						585						665					
Maximum mould size		mm	960 x 650						1040 x 700						1170 x 800					
Platen size (horizontal x vertical)		mm	960 x 960						1040 x 1040						1170 x 1170					
Space between tie bars (horizontal x vertical)		mm	650 x 650						700 x 700						800 x 800					
Column diameter		mm	108						122						132					
Maximum opening stroke		mm	1400						1500						1760					
Hydraulic ejector	Ejection force	t	8,8						8,8						8,8					
	Stroke	mm	225						225						280					
Injection unit																				
EUROMAP			1200		2000				2000		2800				2800		3800			
Screw diameter		mm	55	60	65	60	65	70	60	65	70	65	70	80	65	70	80	75	80	90
Screw ratio		L/D	22	20	18	22	20	19	22	20	19	22	20	18	22	20	18	21	20	18
Maximum injection volume		cm³	641	763	896	919	1078	1251	919	1078	1251	1195	1385	1810	1195	1385	1810	1770	2010	2545
Maximum injection weight (PS) (*)		g	605	720	845	865	1015	1175	865	1015	1175	1130	1300	1700	1130	1300	1700	1670	1900	2400
Maximum injection pressure bar		bar	1900	1600	1350	2190	1860	1600	2190	1860	1600	2150	1850	1450	2340	2020	1550	2160	1900	1500
Injection rate (1)		cm³/s	280	330	380	300	350	410	300	350	410	350	410	530	350	410	530	450	520	650
Plasticising capacity (2)		g/s	42	53	68	52	65	82	52	65	82	60	75	110	60	75	110	80	100	135
Screw speed (maximum)		rpm	250 rpm			240 rpm			240 rpm			220 rpm			220 rpm			190 rpm		
Max. hydraulic pressure		bar	190			190			190			190			190			190		
Oil tank capacity		l	550			550			650			650			750			750		
Main servo		kW	37			45			45			75			75			84		
Heater band power		kW	19,3			22,8			22,8			30,6			30,6			30,6		
Dry cycle (EUROMAP 6)		s	2,7			2,7			3,0			3,0			3,2			3,2		
Dimensions (L x W x H) (3)		m	6,70 x 1,90 x 2,50			6,70 x 1,90 x 2,50			7,35 x 1,96 x 2,55			7,35 x 1,96 x 2,55			7,95 x 2,12 x 2,65			8,45x 2,12 x 2,65		
Machine weight (approximate)		kg	12000			12500			13500			14000			19500			21500		

(1) Values cannot be guaranteed with maximum injection pressure.

(2) Values estimated based on Polystyrene (PS) at 220°C to 250°C and maximum plasticizing speed.

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

(*) Approximated values.

Technical specifications			ROMI EN 600						ROMI EN 800						ROMI EN 1100					
Clamping unit																				
Mould clamping force		t	600						800						1100					
Maximum opening stroke		mm	1000						1170						1370					
Mould height (maximum x minimum)		mm	1000 x 300						1170 x 300						1370 x 400					
Minimum mould size = square		mm	650 x 650						740 x 740						870 x 870					
Minimum mould size = round		mm	650						740						870					
Maximum mould size		mm	1350 x 920						1560 x 1060						1820 x 1250					
Platen size (horizontal x vertical)		mm	1350 x 1350						1560 x 1560						1820 x 1820					
Space between tie bars (horizontal x vertical)		mm	920 x 920						1060 x 1060						1250 x 1250					
Column diameter		mm	152						175						205					
Maximum opening stroke		mm	2000						2340						2740					
Hydraulic ejector	Ejection force	t	10,9						17,6						17,6					
	Stroke	mm	320						360						435					
Injection unit																				
EUROMAP			5500			8400			8400			10800			10800			13800		
Screw diameter		mm	90	100	115	100	115	125	100	115	125	115	125	135	115	125	135	125	135	145
Screw ratio		L/D	25	20	18	24	20	18	24	20	18	25	20	19	25	20	19	22	20	19
Maximum injection volume		cm³	2416	2983	3945	3611	4775	5642	3611	4775	5642	5191	6133	7153	5191	6133	7153	6746	7868	9077
Maximum injection weight (PS) (*)		g	2300	2800	3700	3400	4500	5300	3400	4500	5300	4900	5800	6750	4900	5800	6750	6350	7400	8550
Maximum injection pressure bar		bar	2250	1850	1400	2350	1760	1500	2350	1760	1500	2350	1760	1500	2350	1760	1500	2050	1750	1520
Injection rate (1)		cm³/s	650	800	1060	750	1000	1180	750	1000	1180	1070	1270	1470	1070	1270	1470	1120	1300	1500
Plasticising capacity (2)		g/s	105	150	225	140	210	270	140	210	270	195	250	315	195	250	315	215	270	335
Screw speed (maximum)		rpm	150 rpm			140 rpm			140 rpm			130 rpm			130 rpm			115 rpm		
Hydraulic pressure		bar	190			190			190			190			190			190		
Oil tank capacity		l	1200			1200			1200			1500			1500			1500		
Main servo		kW	75+55			84+55			84+55			84+84			84+84			84+84		
Heater band power		kW	62,2	58,6	58,6	62,2	58,6	58,6	62,2	58,6	58,6	69,8	69,8	69,8	91	81	81	97	97	97
Dry cycle (EUROMAP 6)		s	3			3			4			4			5,2			5,2		
Dimensions (L x W x H) (3)		m	10,51 x 2,48 x 2,56			10,80 x 2,48 x 2,56			11,30 x 2,77 x 2,73			12,30 x 2,77 x 2,73			12,30 x 3,14 x 2,90			13,20 x 3,14 x 2,90		
Machine weight (approximate)		kg	32000			33000			43200			44000			61500			62500		

1) Values cannot be guaranteed with maximum injection pressure.

(2) Values estimated based on Polystyrene (PS) at 220°C to 250°C and maximum plasticizing speed

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

(*) Approximated values.

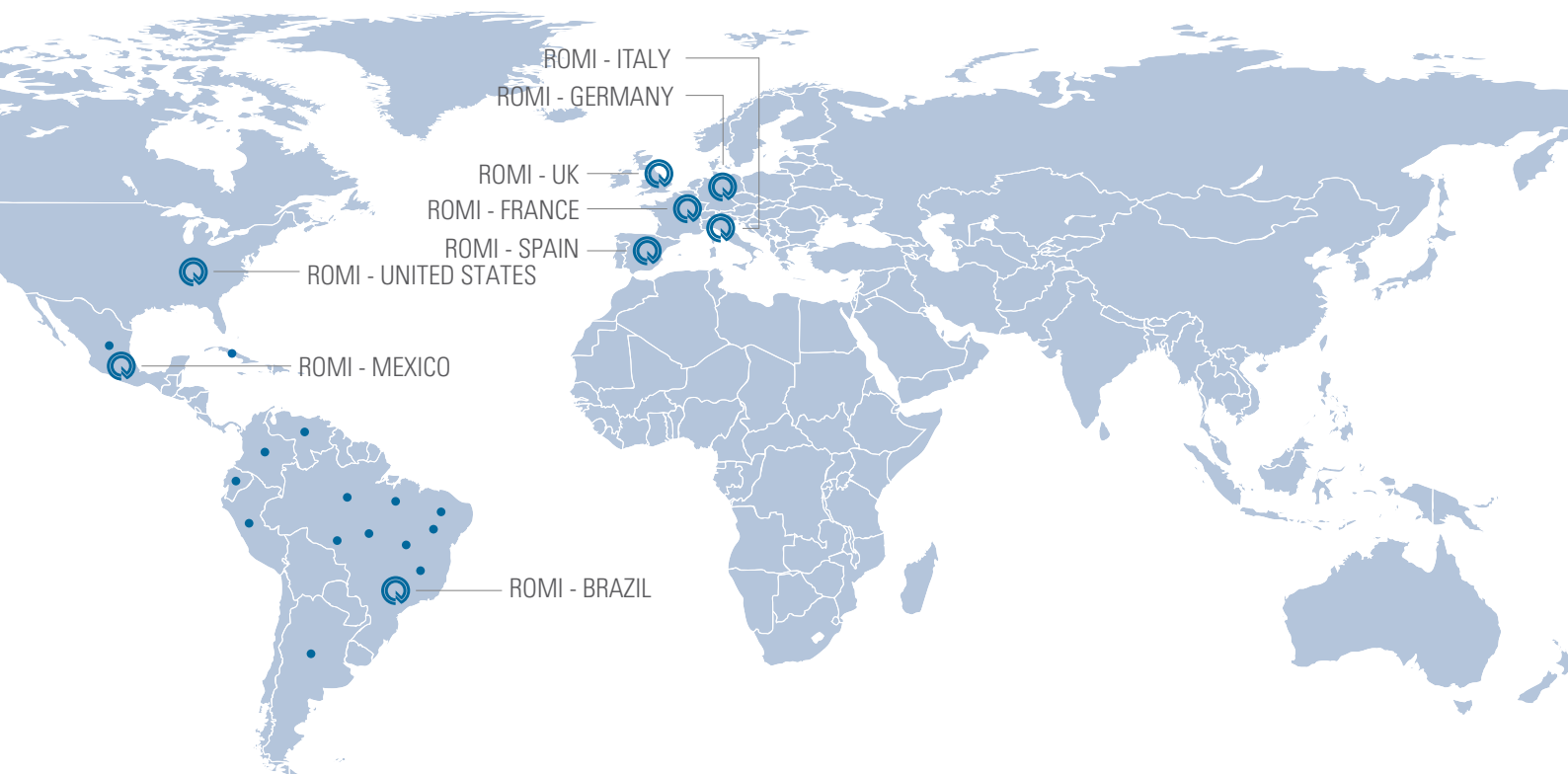
ROMI CM20



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
- Graphic display with programming friendly interactive user
- Access to two parameters rings
- Multimedia resources (manuals and instructions to training notes)
- Control management functions quality and statistical process.

WORLDWIDE PRESENCE



Brazil



United States



Germany



UK



France



Spain



Italy



Germany - B+W



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ISO 9001:2008
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ISO 14001:2004
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Check availability and technical characteristics of the products to your country.