



E-Multi®

A stylized graphic of a blue and white striped flag or sail, similar to the one in the Mold Masters logo, positioned to the right of the 'E-Multi' text.

**THE MOST VERSATILE, ALL ELECTRIC
SERVO DRIVEN, AUXILIARY INJECTION UNIT**

CONSUMER GOODS



MEDICAL



ELECTRONICS



PERSONAL CARE



CAPS & CLOSURES



THIN WALL PACKAGING



PET (DRINK BOTTLES/PREFORMS)



AUTOMOTIVE



OPEN THE DOOR TO PRECISION MULTI-SHOT APPLICATIONS

Easily and economically convert any existing Injection Molding Machine to allow multi-shot capabilities. The successful E-Multi platform offers proven precision, repeatability, versatility and reliability. Compatible with a wide range of thermoplastic and LSR materials, E-Multi is ideal for a wide range of applications across any industry.

KEY FEATURES

SERVO DRIVEN

- High precision, fast, repeatable and reliable performance.
- Suitable for high tolerance applications.
- Program up to 10 injection profiles and holding pressures.
- Statistical process and production tracking.

VERSATILE MOUNTING OPTIONS

- Vertical, horizontal and custom mounting options.
- Can adapt to many requirements.
- Various feeding options available.

COMPACT DESIGN

- Preserves valuable floor space.
- Save up to 100ft² (9.3m²) of space compared to alternatives.
- Vertical installations virtually eliminate any footprint.

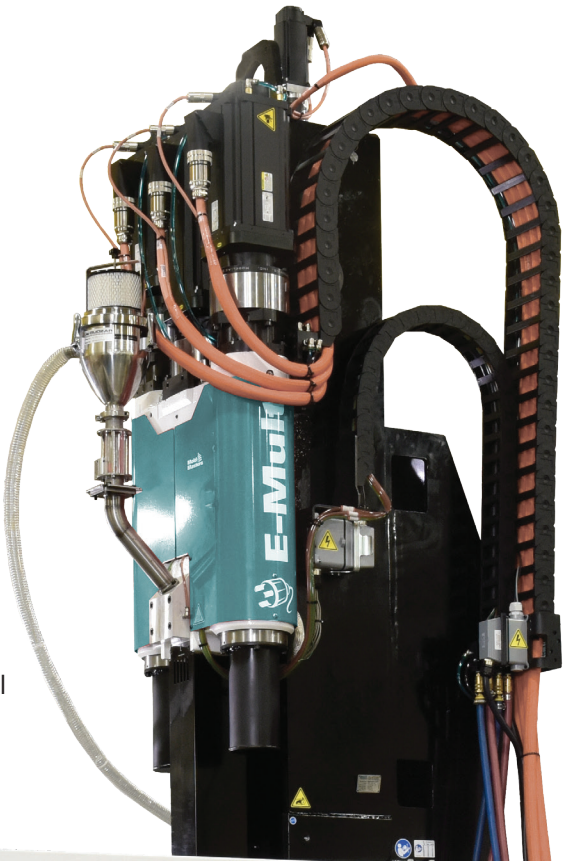
UNIVERSAL COMPATIBILITY

- Can be installed on [ANY](#) Injection Molding Machine.
- Seamless operation via IMM interface.
- Integrate robotic interface.

ALL ELECTRIC

- Energy efficient.
- Viable for clean room applications.
- Minimal maintenance requirements.

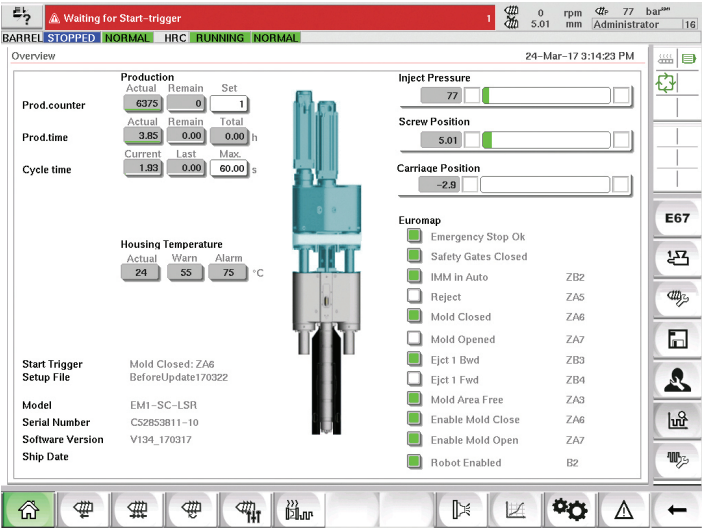
Full range of horizontal or vertical mounting options available



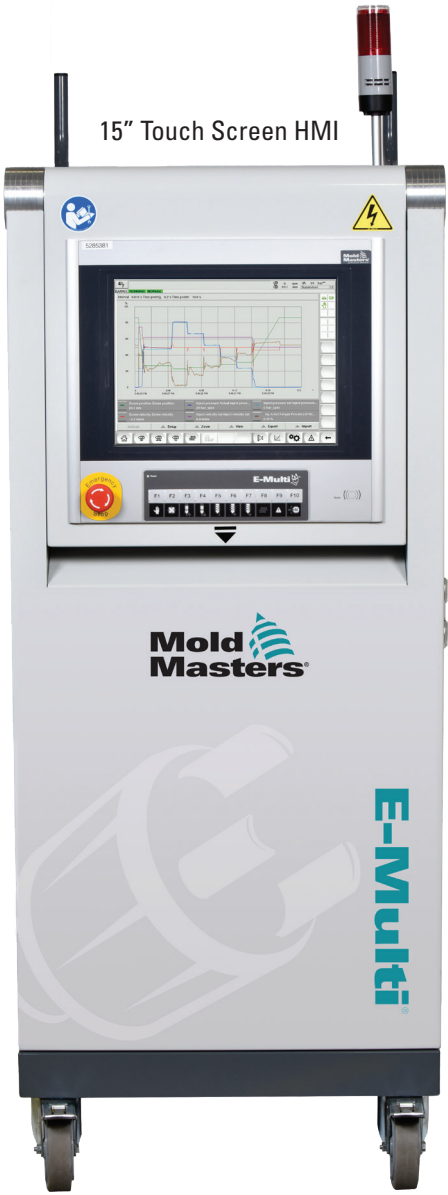
EXPANDABLE MULTI-FUNCTION CONTROLS

Easily integrate additional functionality into your E-Multi controller. Centralize your molding process, eliminate unnecessary equipment and save valuable floor space.

- TempMaster Hot Runner Temperature Control
- Valve Gate Control
- E-Drive Synchro Plate Control
- Rotary Table Control
- M-Ax Auxiliary Servo Control



Intuitive touch screen process controls



INTEGRATED COMMUNICATIONS



Produce consistent high quality multi-colored and multi-material parts

SPECIFICATIONS

Model Number	EM1-15					EM1-30					EM2-80					EM3-200					EM3-250					EM4-550				
Screw Diameter	mm	14	16	18	16	18	22	18	20	22	25	22	25	28	32	32	38	38	40	45	50	55								
	in	0.55	0.63	0.71	0.63	0.71	0.87	0.71	0.79	0.87	0.98	0.87	0.98	1.10	1.26	1.26	1.50	1.50	1.57	1.77	1.97	2.17								
Injection Pressure	Bar	2000	1530	1210	1530	1210	810	2510	2000	1650	1280	2510	2510	2000	1530	2000	1420	2000	2000	1580	1280	1060								
	psi	29,000	22,200	17,500	22,200	17,500	11,700	36,400	29,000	23,900	18,600	36,400	36,400	29,000	22,200	29,000	20,600	29,000	29,000	22,900	18,600	15,400								
Injection Stroke	mm	50	50	50	100	100	125	125	125	125	150	150	150	150	150	150	150	150	210	210	210									
Shot Volume	cc	7.7	10.1	12.7	20.1	25.4	38.0	31.8	39.3	47.5	61.4	57.0	73.6	92.4	120.6	120.6	170.1	170.1	263.9	334.0	412.3	498.9								
	oz. PS	0.26	0.34	0.43	0.68	0.86	1.28	1.08	1.33	1.61	2.08	1.93	2.49	3.12	4.08	4.08	5.75	5.75	8.92	11.29	13.94	16.87								
Shot Weight	g PS	7.7	10.1	12.7	20.1	25.4	38.0	31.8	39.3	47.5	61.4	57.0	73.6	92.4	120.6	120.6	170.1	170.1	263.9	334.0	412.3	498.9								
	lb.	0.02	0.02	0.03	0.04	0.05	0.08	0.07	0.08	0.10	0.13	0.12	0.16	0.20	0.25	0.25	0.36	0.36	0.56	0.71	0.87	1.05								
Max. Screw Speed	rpm	600	600	600	600	600	600	500	500	410	410	410	410	350	350	350	350	350	350	600	700	800								
Max. Screw Torque	Nm	80	80	80	80	80	80	80	140	200	200	250	300	350	350	350	350	350	350	600	700	800								
	LD	20	18	16	24	21	18	26	23	21	18	29	25	22	19	24	20	24	24	21	19	17								
Screw Length	mm	180 / 360	180 / 360	180 / 360	180 / 360	180 / 360	180 / 360	180 / 360	180 / 360	180 / 360	180 / 360	180 / 360	180 / 360	180 / 360	180 / 360	180 / 360	180 / 360	180 / 360	180 / 360	180 / 360	180 / 360	180 / 360								
* Max. Injection Velocity	m/s	7.1 / 14.2	7.1 / 14.2	7.1 / 14.2	7.1 / 14.2	7.1 / 14.2	7.1 / 14.2	7.1 / 14.2	7.1 / 14.2	7.1 / 14.2	7.1 / 14.2	7.1 / 14.2	7.1 / 14.2	7.1 / 14.2	7.1 / 14.2	7.1 / 14.2	7.1 / 14.2	7.1 / 14.2	7.1 / 14.2	7.1 / 14.2	7.1 / 14.2	7.1 / 14.2								
* Max. Injection Rate	cc/s	28 / 55	36 / 72	46 / 92	36 / 72	46 / 92	68 / 137	46 / 92	57 / 113	68 / 137	88 / 177	49 / 99	64 / 128	80 / 160	105 / 209	145	204	204	176 / 565	223 / 716	275 / 884	333 / 1,069								
	oz. PS/s	0.95 / 1.86	1.22 / 2.43	1.56 / 3.11	1.22 / 2.43	1.56 / 3.11	2.30 / 4.63	1.56 / 3.11	1.93 / 3.82	2.30 / 4.63	2.98 / 5.99	1.66 / 3.35	2.16 / 4.33	2.71 / 5.41	3.55 / 7.07	4.90	6.90	6.90	5.95 / 19.10	7.54 / 24.21	9.3 / 29.89	11.26 / 36.15								
Nozzle Touch Force	kN	10	10	10	10	10	17	17	17	25	25	25	25	25	25	25	25	25	25	35	35	35								
	lbf	2,200	2,200	2,200	2,200	2,200	3,800	3,800	3,800	5,600	5,600	5,600	5,600	5,600	5,600	5,600	5,600	5,600	5,600	7,900	7,900	7,900								
Installed Power	kW	12 / 18 kVA	12 / 18 kVA	12 / 18 kVA	12 / 18 kVA	12 / 18 kVA	24 kVA	24 kVA	24 kVA	35 / 47 kVA	47 kVA	47 kVA	47 kVA	47 kVA	47 kVA	47 kVA	47 kVA	47 kVA	47 kVA	70 kVA	70 kVA	70 kVA								
**Amperage	Amps	40	40	40	40	40	40	40	40	40	60	60	60	60	60	60	60	60	60	100	100	100								
Total Length L*	mm	1240	1240	1240	1340	1340	1,650	1,650	1,650	1,650	1,945	2,045	2,045	2,045	2,045	2,045	2,045	2,045	2,450	2,450	2,450	2,450								
	in	48.8	48.8	48.8	52.8	52.8	65.0	65.0	65.0	65.0	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	80.5	80.5	80.5	80.5								
Overall Width W*	mm	390	390	390	390	390	440	440	440	440	490	490	490	490	490	490	490	490	490	650	650	650								
	in	15.4	15.4	15.4	15.4	15.4	17.3	17.3	17.3	17.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	26.0	26.0	26.0								
Overall Height H*	mm	400	400	400	400	400	450	450	450	450	510	510	510	510	510	510	510	510	510	610	610	610								
	in	15.7	15.7	15.7	15.7	15.7	17.7	17.7	17.7	17.7	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	24	24	24								
E-Multi Weight	kg	190	205	205	205	205	320	320	320	320	570	570	570	570	570	570	570	570	570	900	900	900								
	lbs	420	450	450	450	450	710	710	710	710	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,980	1,980	1,980								
Nozzle Stroke	mm	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100								

STANDARD PACKAGE

INJECTION UNIT	CONTROLLER
• General purpose plastizing screw	• 15" touch screen interface
• Material feed tube or hopper	• (2) RFID access cards (operator/supervisor)
• Oil fill kit	• Machine interface cable (E67)
• Lifting kit	• 4m power cable (3-phase) 400V/460V
	• 7m servo drive cable to E-Multi
	• Remote diagnostics package
	• (2) valve gate control
OPTIONS	OPTIONS
• Servo carriage (for sprue break)	• 36-zone TempMaster HR control (max)
• LSR capability	• 12 valve gate control (max)
• Compact horizontal mount stand	• TempMaster M-Ax auxiliary servo, E-Drive rotary table and index platen controls
• Specialty screws	• E67->SP/E12 robot IMM interface adapter
• Nozzle extensions (heated/unheated)	
• Shut-off nozzles	
• Mold mounting plate	
• Material feed vibrate tube	
ON-SITE START-UP SUPPORT AND TRAINING	

Notes: 1. *Standard Speed/High Speed Option
2. Electrical - Standard Voltage 480/480 Volt **Calculated Amperage, E-Multi only
3. Shot Volume based on PS theoretical values.
4. Recommended actual maximum shot size is 50% to 75% of the shot volume in this specification, depending on the application.

Specifications subject to change without notice.
Customizable & Specialty Material Solutions Available.
Other Configurations Available.

