

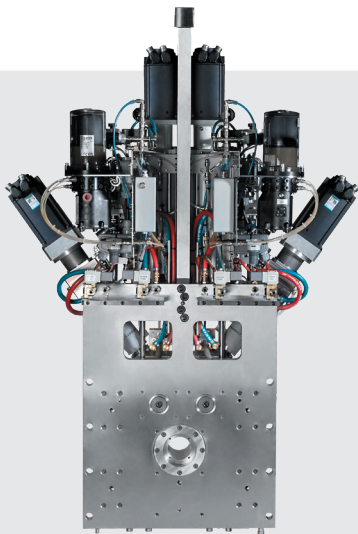


Add-on Injection Units

SHOT POT SERIES

No work too big or too small

Highly demanding industries such as medical, electronics, and packaging require extremely accurate and repeatable injection processes. For space-constrained, high-demand projects, Plasdan's shot-pot series can be installed as stand-alone devices or integrated into fully automated production lines. These add-on injection units optimize production by enabling the injection of multiple components using a single injection moulding machine. Additionally, an E-plate solution can be added to produce parts with more components within the same compact space.



Our Patented E-Plate

Maximum onfiguration flexibility

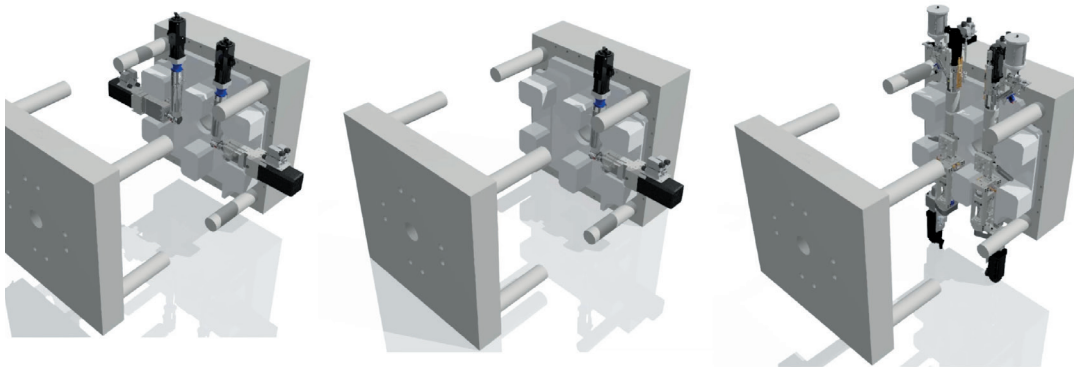
Achieve a more compact, space-efficient tool configuration tailored to client needs versus other injection units by separating the extrusion from the piston

Enhanced productivity with our patented E-Plate system option

Have multiple injection units placed anywhere on the same compact plate, reducing material travel distance, enabling precise micro-shot weight with excellent accuracy, and supporting 3K+ product production on standard IMMs. The E-Plate also allows integration into sliding tables and can be applied to the center block of stacked tools for added versatility.

Wide range of injection volumes with great precision

Inject from under 1 cm³ (micro-injection) in the medical sector to up to 5 kg (macro-injection) in the construction sector, maintaining accuracy, repeatability and performance.



E-Plate configuration possibilities example

Microinjection Units

Inj. Unit	Units	EP.0004		
Screw Ø	mm	14		
	in	0.55		
Piston Ø	mm	4.5	5	5.5
	in	0.18	0.20	0.22
Shot Volume	cc	1.1	2.0	2.9
	Fl.oz	0.04	0.07	0.10
Max. Inj. Pres. *1	bar	2 000	2 000	1 650
	psi	29 008	29 008	23 931
Injection Stroke	mm	70	100	120
	in	2.76	3.94	4.72
Screw Torque	Nm	26.44		
Max. Inj. Velocity	mm/s	450		
	in/s	17.72		
Max. Inj. rate *2	cc/s	7.2	8.8	10.7
	Fl.oz/s	0.24	0.30	0.36
Screw speed	RPM	450		

Standard Volume Injection Units

Inj. Unit	Units	EP.0023			EP.0064			EP.0234			EP.0493			EP.948		
Screw Ø	mm	16			20			30			40			50		
	in	0.63			0.79			1.18			1.57			1.97		
Piston Ø	mm	8	10	12	14	16	18	20	25	28	28	32	36	38	42	48
	in	0.31	0.39	0.47	0.55	0.63	0.71	0.79	0.98	1.1	1.1	1.26	1.42	1.5	1.65	1.89
Shot Volume	cc	7.0	11.8	18.1	21.6	32.2	45.8	78	122	153	197	257	325	420	513	670
	Fl.oz	0.24	0.40	0.61	0.73	1.09	1.55	2.64	4.13	5.17	6.66	8.69	10.99	14.19	17.33	22.64
Max. Inj. Pres. *1	bar	2 200	2 000	1 500	2 200	2 000	1 600	2 000	1 920	1 525	2 000	1 920	1 500	2 000	1 850	1 420
	psi	31 908	29 008	21 756	31 908	29 008	23 206	29 008	27 847	22 118	29 008	27 847	21 756	29 008	26 832	20 595
Injection Stroke	mm	140	150	160	140	160	180	250			320			370		
	in	5.51	5.91	6.30	5.51	6.30	7.09	9.84			12.60			14.57		
Screw Torque	Nm	37.90			69.25			206			450			822		
Max. Inj. Velocity	mm/s	450			350			320			280			250		
	in/s	17.72			13.78			12.60			11.02			9.84		
Max. Inj. rate *2	cc/s	22.6	35.3	50.9	53.9	70.4	89.1	100	157	197	172	225	285	240	346	490
	Fl.oz/s	0.76	1.19	1.72	1.82	2.38	3.01	3.38	5.31	6.66	5.82	7.61	9.64	8.12	11.70	16.57
Screw speed	RPM	450			450			450			425			340		

Macro Injection Units

Macro Shot Inj. Units	Units	EP.1838			EP.2799	EP.5598	EP.3188	EP.6377	EP.3502	EP.7004
Screw Ø	mm	65			70	80	75	90	80	95
	in	2.56			2.76	3.15	2.95	3.54	3.15	3.74
Piston Ø	mm	50	55	60	60	2x60	65	2x65	70	2x70
	in	1.97	2.17	2.36	2.36	2x2.36	2.56	2x2.56	2.76	2x2.76
Nº of Pistons	#	1			1	2	1	2	1	2
Shot Volume	cc	844	1 022	1 216	1 555	3 110	2 057	4 115	2 501	5 003
	Fl.oz	28.55	34.54	41.11	52.58	105.17	69.57	139.13	84.59	169.17
Max. Inj. Pres. *1	bar	2 000	1 800	1 510	1 800	1 800	1 550	1 550	1 400	1 400
	psi	29 008	26 107	21 901	26 107	26 107	2 2481	2 2481	20 305	20 305
Injection Stroke	mm	430			550	550	620	620	650	650
	in	16.93			21.65	21.65	24.41	24.41	25.59	25.59
Screw Torque	Nm	1670			2 039	2924	2 456	4 018	2 924	4 650
Max. Inj. Velocity	mm/s	200			160	160	135	135	135	135
	in/s	7.87			6.3	6.3	5.31	5.31	5.31	5.31
Max. Inj. rate *2	cc/s	393	475	565	452	905	448	896	520	1 039
	Fl.oz/s	13.28	16.07	19.12	15.30	30.59	15.15	30.3	17.57	35.14
Screw speed	RPM	260			244	212	226	188	212	179

*1 - The maximum injection and packing pressure values refer to the output of the injection unit, not the cavity melt pressure. These are the maximum values that can be set and may be limited depending on moulding conditions.

*2 - The maximum injection rate and speed are theoretical values.

Note: all specifications are subject to change without notice and additional configurations might be possible upon request.