

INJECTION UNITS

Plasdan offers a full range of full-electric, servo-driven, mould, platen or floor mounted mobile injection units which are highly accurate, have high shot-to-shot repeatability, are quiet and energy efficient. These add-on injection units are economical solutions to upgrade standard injection moulding machines, enabling these standard machines to inject multi-coloured or multi-component parts. Having their own high-powered PLC controller, the injection units are easily integrated with the moulding machine via the robot interface.

Standard version



INJECTION UNIT SPECIFICATIONS STANDARD UNIT

Injection Unit	Units	EL.0037			EL.0123			EL.0123 HS			EL.0336			EL.0626		
Screw diameter	mm in	16 0,63	18 0,71	20 0,79	22 0,87	25 0,98	30 1,18	22 0,87	25 0,98	30 1,18	30 1,18	35 1,38	40 1,57	40 1,57	45 1,77	50 1,97
Swept volume	cc Fl.oz	16,1 0,54	22,9 0,77	31,4 1,06	41,8 1,41	61,4 2,08	106 3,58	41,8 1,41	61,4 2,08	106 3,58	106 3,58	168,4 5,69	251,3 8,50	251,3 8,50	357,8 12,10	490,9 16,60
Max. injection pressure *1	Bar psi	2100 30458	1650 23931	1350 19580	2200 31908	2000 29008	1400 20305	2200 31908	2000 29008	1400 20305	2200 31908	2000 29008	1550 22481	2200 31908	1750 25382	1420 20595
Screw stroke	mm in	80 3,15	90 3,54	100 3,94	110 4,33	125 4,92	150 5,91	110 4,33	125 4,92	150 5,91	150 5,91	175 6,89	200 7,87	200 7,87	225 8,86	250 9,84
Screw torque	Nm	37,9	52,1	69,3	89,6	126,5	207,0	89,6	126,5	207,0	207,0	313,8	450,0	450,0	618,5	822,0
Nozzle sealing force	kN lbf	28,5 6407	28,5 6407	28,5 6407	30,0 6744	30,0 6744	30,0 6744	30,0 6744	30,0 6744	30,0 6744	40,0 8992	40,0 8992	40,0 8992	40,0 8992	40,0 8992	40,0 8992
Max. nozzle retract stroke	mm in	100 3,94	100 3,94	100 3,94	200 7,87	200 7,87	200 7,87	200 7,87	200 7,87	200 7,87	200 7,87	200 7,87	200 7,87	200 7,87	200 7,87	200 7,87
Max. injection speed *2	mm/sec in/sec	150 5,91	150 5,91	150 5,91	180 7,09	180 7,09	180 7,09	280 11,02	280 11,02	280 11,02	170 6,69	170 6,69	170 6,69	140 5,51	140 5,51	140 5,51
Max. injection rate *2	cc/sec Fl.oz/Sec	30,2 1,02	38,2 1,29	47,1 1,59	68,4 2,31	88,4 2,99	127,2 4,30	106,4 3,60	137,4 4,65	197,9 6,69	120,2 4,06	163,6 5,53	213,6 7,22	175,9 5,95	222,7 7,53	274,9 9,30
Screw speed range, standard drive	r.p.m	320	320	320	450	450	450	450	450	450	420	420	420	325	325	325
Electrical supply	V	400/480	400/480	400/480	400/480	400/480	400/480	400/480	400/480	400/480	400/480	400/480	400/480	400/480	400/480	400/480
Maximum current	A	32	32	32	32	32	32	32	32	32	80	80	80	125	125	125

*1 - The maximum injection and packing pressure are not the cavity melt pressure but injection unit output. The maximum injection and packing pressure are the maximum value that can be set. The maximum injection and packing pressure might be limited depending on the moulding conditions.

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

Note: all specifications are subject to change without notice.

INJECTION UNIT SPECIFICATIONS DIRECT DRIVE

Injection Unit	Units	EL. 1520		
Screw diameter	mm in	55 2,17	60 2,36	65 2,56
Swept volume	cc Fl.oz	653,4 22,09	848,2 28,68	1078,4 36,47
Max. injection pressure	Bar psi	2100 30458	1800 26107	1530 22191
Screw stroke	mm in	275 10,83	300 11,81	325 12,80
Screw torque	Nm	1063,2	1344,8	1669,2
Nozzle sealing force	kN lbf	70 15737	70 15737	70 15737
Max. nozzle retract stroke	mm in	500 19,69	500 19,69	500 19,69
Max. injection speed	mm/sec in/sec	140 5,51	140 5,51	140 5,51
Max. injection rate	cc/sec Fl.oz/Sec	332,6 11,25	395,8 13,38	464,6 15,71
Screw speed range, standard drive	r.p.m	255	255	255
Electrical supply	V	400/480	400/480	400/480
Maximum current	A	200	200	200



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