

TL-Series (Tiebarless)

Sizes from 28 - 220 US tons

TL-Series (Tiebarless)

Sizes from 300 - 660 US tons

International Size Designation ¹	250-80	360-80	45-200	550-200	910-330	1360-650	1820-750	2000-1050	2730-1350	2730-1800	3640-2050	4000-2550	4000-4000	5000-5400	5000-6000	6000-8700
Machine designations	TL 80/28 US*	TL 80/40 US*	TL 200/50 US*	TL 200/60 US	TL 330/100 US	TL 650/150 US	TL 750/200 US	TL 1050/220 US	TL 1350/300 US	TL 1800/300 US	TL 2050/400 US	TL 2550/440 US	TL 3550/440 US	TL 4550/550 US	TL 5550/550 US	TL 7050/660 US
Injection Unit	80	80	200	200	330	650	750	1050	1350	1800	2050	2550	3550	4550	5550	7050
Screw diameter	mm 18/22/25	18/22/25	25/30/35	25/30/35	30/35/40	40/45/50	45/50/55	50/55/60	55/60/70	60/70/80	60/70/80	70/80/85	70/80/90	80/90/105	80/90/105	90/105/120
Screw Stroke	inches 3.94	3.94	5.51	5.50	6.30	7.87	7.87	8.46	10.24	10.63	11.81	12.20	15.35	15.35	16.93	18.90
Max. shot weight	oz. GPPS 0.8 / 1.2 / 1.6	0.8 / 1.2 / 1.6	2.2 / 3.2 / 4.4	2.2 / 3.2 / 4.4	3.7 / 5.0 / 6.5	8.2 / 10.3 / 12.7	10.3 / 12.7 / 15.4	13.7 / 16.6 / 19.7	20.0 / 23.8 / 32.5	24.8 / 33.7 / 44.0	27.5 / 37.5 / 48.9	38.7 / 50.5 / 57.1	48.7 / 63.6 / 80.5	63.6 / 80.5 / 110	70.1 / 88.8 / 120.8	99.1 / 134.9 / 176.2
Max. injection capacity	inches ³ 1.5 / 2.3 / 3.0	1.5 / 2.3 / 3.0	4.2 / 6.0 / 8.2	4.2 / 6.0 / 8.2	6.9 / 9.4 / 12.3	15.3 / 19.4 / 24.0	19.4 / 24.0 / 29.0	25.7 / 31.2 / 37.1	37.7 / 44.8 / 61.0	46.6 / 63.4 / 82.8	51.8 / 70.4 / 92.0	72.8 / 95.1 / 107.3	91.6 / 119.6 / 151.4	119.6 / 151.4 / 206.1	131.9 / 166.9 / 227.2	186.4 / 253.7 / 331.3
Screw speed	rpm 360 / 300 / 300	360	480	480	420 / 420 / 320	297	238	238	217	217	262 / 262 / 175	262 / 175 / 175	150 / 150 / 150	140 / 140 / 140	148 / 148 / 148	130 / 130 / 130
L/D ratio (3 zone screw)	22.5:1 / 18.7:1 / 16.4:1	22.5:1 / 18.7:1 / 16.4:1	24.8:1 / 20.5:1 / 17.3:1	24:1 / 20:1 / 17.1:1	23.3:1 / 20:1 / 17.5:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1
Recovery rate (3 zone screw) ^{2,3,4}	oz/sec 0.10 / 0.18 / 0.23	0.10 / 0.20 / 0.30	0.42 / 0.60 / 0.85	0.4 / 0.6 / 0.9	0.5 / 0.8 / 1.2	0.8 / 1.1 / 1.5	0.9 / 1.2 / 1.6	1.2 / 1.6 / 2.0	1.4 / 1.8 / 2.7	1.8 / 2.7 / 3.8	2.2 / 3.2 / 3.0	3.2 / 3.0 / 3.6	1.3 / 1.8 / 2.6	1.8 / 2.5 / 3.5	2.6 / 2.6 / 3.7	2.3 / 3.3 / 4.6
L/D ratio (barrier screw) ⁴	-	-	-	24:1	24:1	24:1	24:1	24:1	24:1	24:1	24:1	24:1	24:1	24:1	24:1	22:1
Recovery rate (barrier screw) ^{4,5}	oz/sec -	-	-	- / - / 1.3	- / 1.1 / 1.2	1.2 / 1.5 / 2.0	1.2 / 1.6 / 2.0	1.6 / 2.0 / 2.5	2.2 / 2.8 / 4.1	2.3 / 3.4 / 4.8	2.8 / 4.0 / 3.8	4.1 / 3.9 / 4.5	2.4 / 3.3 / 4.4	3.1 / 4.2 / 6.1	3.2 / 4.4 / 6.5	3.6 / 5.3 / 7.4
Injection rate (regenerative) ⁶	in ³ /sec 2.5 / 3.7 / 4.8	2.8 / 4.1 / 5.3	5.4 / 7.7 / 10.5	5.9 / 8.5 / 11.6	6.8 / 9.2 / 12.1	9.0 / 11.3 / 14.0	14.4 / 17.8 / 21.5	13.3 / 16.1 / 19.1	17.3 / 20.6 / 28.0	16.6 / 22.6 / 29.5	19.7 / 26.9 / 35.1	22.3 / 29.2 / 32.9	21.4 / 28.1 / 35.4	25.6 / 32.3 / 43.9	27.2 / 34.4 / 47.0	35.8 / 48.7 / 63.6
Injection pressure (regenerative)	psi 24468 / 23061 / 17839	24468 / 23061 / 17839	30313 / 21030 / 15446	19726 / 19726 / 15455	22072 / 22072 / 17763	22418 / 20306 / 16448	22418 / 20696 / 17120	21804 / 18037 / 16154	22850 / 21421 / 15810	24935 / 18934 / 14526	24980 / 21491 / 16468	25521 / 20230 / 17898	32600 / 25100 / 19700	33400 / 27700 / 20300	26325 / 26325 / 20358	32633 / 23931 / 18274
Injection pressure (max)	psi 31908 / 29877 / 23206	31908 / 29877 / 23206	34809 / 32053 / 23496	30000 / 30000 / 23505	30000 / 30000 / 24143	30000 / 27173 / 22011	30000 / 27695 / 22910	27695 / 22910 / 20518	28304 / 26535 / 19584	30000 / 22780 / 17476	30000 / 25810 / 19778	30000 / 23780 / 21039	33400 / 29400 / 23200	33350 / 26351 / 19360	30000 / 30000 / 23200	33223 / 30346 / 23234
Nozzle stroke / Contact force	inches / US tons 7.87 / 3.1	7.87 / 3.1	7.87 / 3.1	7.87 / 3.2	9.84 / 5.3	13.78 / 7.6	13.78 / 7.6	13.78 / 7.6	19.69 / 12.4	19.69 / 12.4	25.59 / 12.4	25.59 / 12.4	27.55 / 16.9	27.55 / 16.9	27.55 / 16.9	37.4 / 16.9
Total heating wattage ⁷	kw 5.3	5.3 / 5.7 / 5.7	6.8	4.8 / 4.8 / 4.8	7.2	12.7 / 13.7 / 15.7	13.7 / 15.7 / 16.7	15.7 / 16.7 / 23.2	20.2 / 21.7 / 24.7	21.7 / 24.7 / 33.5	25.3 / 29.4 / 33.5	29.4 / 33.5 / 53.0	42.0 / 48.0 / 56.0	48.0 / 56.0 / 64.0	48.0 / 56.0 / 64.0	56.0 / 68.0 / 80.0
Number of heating zones incl. Nozzle ⁷	3+Nozzle	3+Nozzle	3+Nozzle	3+Nozzle	3+Nozzle	4+Nozzle	4+Nozzle	4+Nozzle	4+Nozzle	4+Nozzle	4+Nozzle	4 / 4 / 5 / 4+Nozzle	5+Nozzle	5+Nozzle	5+Nozzle	5+Nozzle
Clamping Unit	TL /28 US	TL /40 US	TL /50 US	TL /60 US	TL /100 US	TL /150 US	TL /200 US	TL /220 US	TL /300 US	TL /300 US	TL /400 US	TL /440 US	TL /440 US	TL /550 US	TL /550 US	TL /660 US
Clamp force	US tons 28	40	50	60	100	150	200	220	300	300	400	440	440	550	550	600
Clamp stroke	inches 13	13.77	13.77	13.00	17.72	23.62	27.56	27.56	33.46	33.46	37.40	37.40	37.40	47.24	47.24	47.24
Mold height min - max	inches 5.90 / N/A	7.08 / N/A	7.08 / N/A	7.48 / N/A	9.84 / N/A	9.84 / N/A	9.84 / N/A	9.84 / N/A	13.78 / N/A	13.78 / N/A	13.78 / N/A	13.78 / N/A	13.78 / N/A	19.69 / N/A	19.69 / N/A	19.69 / N/A
Daylight max.	inches 18.89	20.87	20.87	20.47	27.56	33.46	37.40	37.40	47.24	47.24	51.18	51.18	51.18	66.93	66.93	66.93
Platen size (H x V)	inches 18.50 x 14.96	21.65 x 16.93	21.65 x 16.93	25.59 x 16.93	27.95 x 22.24	33.46 x 27.56	35.43 x 29.53	35.43 x 29.53	46.46 x 35.43	46.46 x 35.43	55.12 x 42.51	55.12 x 42.51	55.12 x 42.51	62.2 x 51.2	62.2 x 51.2	62.2 x 51.2
Enlarged Platen (H x V)	inches -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tiebar spacing (H x V)	inches -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Drop out width	inches 12.20	14.17	14.17	15.75	18.11	23.62	25.2	25.2	30.71	30.71	29.52	29.52	29.52	41.30	41.30	41.30
Max mold weight ⁸	lbs. 330	551	551	1488	1815	3300	4959	4959	6600	6600	5512	5512	5512	11464	11464	11464
Number of mold cooling circuits	# x US Gal/min -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ejector stroke / force	inches / US tons 2.75 / 2.5	3.93 / 3.6	3.93 / 4.5	3.94 / 3.5	3.94 / 4.3	5.91 / 6.9	5.91 / 6.9	5.91 / 6.9	7.89 / 9.0	7.89 / 9.0	9.8 / 9.3	9.8 / 9.3	9.8 / 9.3	7.9 / 12.1	7.9 / 12.1	7.9 / 12.1
Dry cycle (Euromp 6) / Stroke ⁶	sec / inches 1.4 / 5.90	1.3 / 5.90	1.5 / 5.90	1.8 / 9.00	2.2 / 12.40	2.8 / 16.53	3.0 / 19.29	3.0 / 19.29	3.6 / 23.42	3.6 / 23.42	3.5 / 15.74	3.5 / 15.74	3.5 / 15.74	3.6 / 23.6	3.6 / 23.6	3.6 / 23.6
Drive																
Rated drive power	HP 7.3	10	14.7	20	20	30	40	40	50	50	60	60	75	100	120	147
Oil reservoir capacity	US gal 24	30	30	57	60	116	116	116	155	155	210	210	210	225	265	425
Weight and Dimensions																
Clamp/Injection unit Weight (excluding oil)	lbs 3968	6720	7260	9600	14000	19850	25350	25350	35000 / 13000	35000 / 13000	52910 / 16975	52910 / 16975	52910 / 22046	85980 / 22000	85980 / 22000	85980 / 37400
Length x Width x Height	inches 107 x 42 x 70	121 x 48 x 84	130 x 48 x 84	146 x 52 x 84	166 x 52 x 84	221 x 73 x 90	231 x 73 x 90	236 x 73 x 90	291 x 82 x 95	300 x 82 x 95	321 x 88 x 101	325 x 88 x 101	346 x 88 x 97	382 x 98 x 102	385 x 98 x 102	425 x 98 x 102
Suitable Engel Robots	ERC 23, TLI 21	ERC 23, TLI 21	ERC 23, TLI 31	ERC 23, ER-TLI 31	ERC 23, ER-TLI 41	ERC 33, ER-TLI 51	ERC 33, ER-TLI 61	ERC 33, ER-TLI 61	ERC 43, ER-TLI 71	ERC 43, ER-TLI 71	ERC 53 - 63, ER-TLI 81	ERC 53 - 63, ER-TLI 81	ERC 53 - 63, ER-TLI 81	ERC 53 - 63, ER-TLI 91	ERC 53 - 63, ER-TLI 91	ERC 53 - 63, ER-TLI 91

* Limited options available / Disponibilidad de opciones limitada

¹ Clamp force [kN] – injection capacity [cm³] x injection pressure max [bar] /1000

² Data for GPPS (MVR 200/ 5 = 10 cm³/10 min) up to injection unit 2550 acc. ETR 10100

³ Data for HDPE (MVR 190/ 2,16 = 5 cm³ / 10 min) from injection unit 3550 onward acc. ETR 10100

⁴ Data for PP (MVR 230/ 2,16 = 12 cm³ / 10 min) for Tecomelt machines acc. ETR 10100

⁵ Data for HDPE (MVR / 190/2,16 = 5 cm³ / 10 min) acc. ETR 10100

⁶ Theoretical values

⁷ For three-zone screw

⁸ Max. 2/3 of max mold weight allowed on moving platen

* Optional

N/A=Not Available

VICTORY (Tiebarless)

Sizes from 65 - 165 US tons

International Size Designation ¹	590-80	770-200	910-330	1090-500	1180-500	1320-650	1320-750	1500-1050	
Machine designations	VC 80/65 US	VC 200/85 US	VC 330/100 US	VC 500/120 US	VC 500/130 US	VC 650/145 US	VC 750/145 US	VC 1050/165 US	
Injection Unit	80	200	330	500	500	650	750	1050	
Screw diameter	mm	18/22/25	25/30/35	30/35/40	35/40/45	35/40/45	40/45/50	45/50/55	50/55/60
Screw Stroke	inches	3.94	5.51	6.3	7.87	7.87	7.87	7.87	8.46
Max. shot weight	oz. GPPS	0.8 / 1.2 / 1.6	2.2 / 3.2 / 4.4	3.7 / 5.0 / 6.5	6.2 / 8.1 / 10.3	6.2 / 8.1 / 10.3	8.1 / 10.3 / 12.7	10.3 / 12.7 / 15.4	13.7 / 16.5 / 19.7
Max. injection capacity	inches ³	1.53 / 2.32 / 2.99	4.21 / 6.04 / 8.24	6.89 / 9.40 / 12.26	11.71 / 15.31 / 19.40	11.71 / 15.31 / 19.40	15.31 / 19.40 / 23.90	19.40 / 23.92 / 28.98	25.75 / 31.12 / 37.03
Screw speed	rpm	450 / 360 / 360	480	400 / 400 / 320	400 / 400 / 320	400 / 400 / 320	290	230	230
L/D ratio (3 zone screw)		22.5:1 / 18.7:1 / 16.4:1	24.8:1 / 20.5:1 / 17.3:1	23.6:1 / 20:1 / 17.5:1	20:1	20:1	20:1	20:1	20:1
Recovery rate (3 zone screw) ^{2,3,4}	oz/sec	0.12 / 0.21 / 0.28	0.42 / 0.60 / 0.84	0.49 / 0.74 / 0.88	0.74 / 1.13 / 1.20	0.74 / 1.13 / 1.20	0.81 / 1.06 / 1.44	0.85 / 1.16 / 1.55	1.16 / 1.51 / 1.90
L/D ratio (barrier screw)		-	-	23.6:1 / 20:1 / -	24:1 / 24:1 / 24:1	24:1 / 24:1 / 24:1	24:1	24:1	24:1
Recovery rate (barrier screw) ^{4,5}	oz/sec	-	-	0.74 / 0.91 / -	1.09 / 1.55 / 1.65	1.09 / 1.55 / 1.65	1.13 / 1.51 / 1.93	1.20 / 1.55 / 1.94	1.55 / 1.94 / 2.43
Injection rate (regenerative) ⁶	in ³ /sec	3.17 / 4.76 / 6.10	6.35 / 9.15 / 12.45	6.77 / 9.27 / 12.08	9.27 / 12.08 / 15.31	9.27 / 12.08 / 15.31	8.60 / 10.92 / 13.48	14.04 / 17.33 / 20.93	12.87 / 15.56 / 18.55
Injection pressure (regenerative)	psi	31900 / 23055 / 17835	30305 / 21025 / 15443	31610 / 23200 / 17835	24650 / 18850 / 15225	24650 / 18850 / 15225	27985 / 22185 / 17980	25520 / 20735 / 17110	28354 / 23278 / 19724
Injection pressure (max)	psi	31900 / 29870 / 23200	34800 / 32045 / 23490	34800 / 31610 / 24215	34800 / 29725 / 23200	34800 / 29725 / 23200	34808 / 29587 / 23930	34220 / 27695 / 22910	33793 / 23932 / 25018
Nozzle stroke / Contact force	inches / US tons	7.87 / 3.14	7.87 / 3.15	9.84 / 5.28	11.81 / 5.6	11.81 / 5.6	13.78 / 7.5	13.78 / 7.5	13.78 / 7.5
Total heating wattage	kw	5.3	6.8	9.2	9.2 / 9.2 / 12.2	9.2 / 9.2 / 12.2	12.3 / 13.3 / 15.3	13.3 / 15.3 / 16.3	15.3 / 16.3 / 18.3
Number of heating zones incl. nozzle		3+Nozzle	3+Nozzle	3+Nozzle	3 / 3 / 4 +Nozzle	3 / 3 / 4 +Nozzle	4+Nozzle	4+Nozzle	4+Nozzle
Clamping Unit		VC /65 US	VC /85 US	VC /100 US	VC /120 US	VC /130 US	VC /145 US	VC /145 US	VC /165 US
Clamp force	US tons	65	85	100	120	130	145	145	165
Clamp stroke	inches	17.72	17.72	19.69	19.69	19.69	23.62	23.62	23.62
Mold height min - max	inches	9.84 / N/A	9.84 / N/A	11.81 / N/A	11.81 / N/A	11.81 / N/A	11.81 / N/A	11.81 / N/A	11.81 / N/A
Daylight max.	inches	27.56	27.56	31.49	31.49	31.49	35.43	35.43	35.43
Platen size (H x V)	inches	26.38 x 23.62	26.38 x 23.62	29.13 x 26.77	29.13 x 26.77	29.13 x 26.77	29.53 x 29.53	29.53 x 29.53	29.53 x 29.53
Enlarged Platen (H x V)	inches	28.35 x 23.62	28.35 x 23.62	31.10 x 26.77	31.10 x 26.77	31.10 x 26.77	33.46 x 29.53	33.46 x 29.53	33.46 x 29.53
Tiebar spacing (H x V)	inches	-	-	-	-	-	-	-	-
Drop out width	inches	17.71	17.71	19.68	19.68	19.68	21.26	21.26	21.26
Max mold weight	lbs.	992	992	1212	1212	1212	2646	2646	2646
Number of mold cooling circuitis	# x US Gal/min	-	-	-	-	-	-	-	-
Ejector stroke / force	inches / US tons	3.9 / 4.49	3.9 / 4.49	5.12 / 4.49	5.12 / 4.49	5.12 / 4.49	5.12 / 6.9	5.12 / 6.9	5.12 / 6.9
Dry cycle (Euromp 6) / Stroke ⁶	sec / inches	1.5 / 5.9	1.5 / 5.9	1.6 / 7.87	1.6 / 7.87	1.6 / 7.87	1.8 / 7.90	1.8 / 7.90	1.8 / 7.90
Drive									
Rated drive power	HP	20.1	20.1	20.1	24.8	24.8	29.5	40.2	40.2
Oil reservoir capacity	US gal	49	49	79	79	79	119	119	119
Weight and Dimensions									
Clamp/Injection unit Weight (excluding oil)	lbs	11200	11400	16100	16320	16320	21600	21600	22200
Length x Width x Height	inches	154 x 55 x 81	154 x 55 x 81	172 x 59 x 81	192 x 59 x 81	192 x 59 x 81	217 x 67 x 87	217 x 67 x 87	217 x 67 x 87
Suitable Engel Robots		ERC 33, Tli 41	ERC 33, Tli 41	ERC 33, Tli 41	ERC 33, Tli 41	ERC 33, Tli 51	ERC 33, Tli 51	ERC 33, Tli 51	ERC 33, Tli 51

E-MOTION (Fully Electric Tiebarless)

Sizes from 60 - 200 US tons

International Size Designation ¹	550-80	550-200	1000-310	1000-440	1500-440	1500-740	1800-740	
Machine designations	EM 80/60 US	EM 200/60 US	EM 310/110 US	EM 440/110 US	EM 440/165 US	EM 740/165 US	EM 740/200 US	
Injection Unit	80	200	310	440	440	740	740	
Screw diameter	mm	18/22	25/30	30/35	35/40	35/40	45/50	45/50
Screw Stroke	inches	3.94	4.72	6.30	6.89 / 6.89	6.89 / 6.89	7.87	7.87
Max. shot weight	oz. GPPS	0.8 / 1.2	1.9 / 2.7	3.6 / 4.9	5.4 / 7.1	5.4 / 7.1	10.3 / 12.7	10.3 / 12.7
Max. injection capacity	inches ³	1.53 / 2.32	3.59 / 5.17	6.88 / 9.38	10.27 / 13.42	10.27 / 13.42	19.41 / 23.96	19.41 / 23.96
Screw speed	rpm	400	380	360	290	290	290	290
L/D ratio (3 zone screw)		22.5:1 / 18.7:1	24.8:1 / 20.5:1	23.6:1 / 20:1	20:1	20:1	20:1	20:1
Recovery rate (3 zone screw) ^{2,3,4}	oz/sec	0.11 / 0.23	0.33 / 0.48	0.44 / 0.67	0.54 / 0.82	0.54 / 0.82	1.06 / 1.44	1.06 / 1.44
L/D ratio (barrier screw)		-	-	-	-	-	-	-
Recovery rate (barrier screw) ^{4,5}	oz/sec	-	-	-	-	-	-	-
Injection rate (regenerative) ⁶	in ³ /sec	2.5 / 3.7	4.7 / 6.9	5.5 / 7.4	7.3 / 9.6	7.3 / 9.6	15.5 / 19.2	15.5 / 19.2
Injection pressure (regenerative)	psi	-	-	-	-	-	-	-
Injection pressure (max)	psi	31907 / 29007	34808 / 29007	34808 / 29007	34808 / 28281	34808 / 28281	33359 / 27122	33359 / 27122
Nozzle stroke / Contact force	inches / US tons	23.62 / 1.57	23.62 / 1.57	23.62 / 3.14	27.56 / 3.14	27.56 / 3.14	27.56 / 4.05	27.56 / 4.05
Total heating wattage	kw	5.3	7.0	9.2	9.4	9.4	13.3 / 15.3	13.3 / 15.3
Number of heating zones incl. nozzle		3 + Nozzle	3 + Nozzle	3 + Nozzle	3 + Nozzle	3 + Nozzle	4 + Nozzle	4 + Nozzle
Clamping Unit		EM /60 US	EM /60 US	EM /110 US	EM /110 US	EM /165 US	EM /165 US	EM /200 US
Clamp force	US tons	60	60	110	110	165	165	200
Clamp stroke	inches	10.63	10.63	16.54	16.54	17.72	17.72	17.72
Mold height min - max	inches	5.91 / 13.78	5.91 / 13.78	5.91 / 16.54	5.91 / 16.54	7.87 / 19.69	7.87 / 19.69	7.87 / 19.69
Daylight max.	inches	24.41	24.41	33.08	33.08	37.41	37.41	37.41
Platen size (H x V)	inches	24.41 x 19.69	24.41 x 19.69	29.13 x 27.56	29.13 x 27.56	37.40 x 29.53	37.40 x 29.53	37.40 x 29.53
Enlarged Platen (H x V)	inches	-	-	-	-	-	-	-
Tiebar spacing (H x V)	inches	-	-	-	-	-	-	-
Drop out width	inches	16.14	16.14	18.50	18.50	21.85	21.85	21.85
Max mold weight	lbs.	992	992	1653	1653	2646	2646	2646
Number of mold cooling circuits	# x US Gal/min	-	-	-	-	-	-	-
Ejector stroke / force	inches / US tons	3.94 / 2.6	3.94 / 2.6	5.12 / 2.6	5.12 / 2.6	5.91 / 4.1	5.91 / 4.1	5.91 / 4.1
Dry cycle (Euromp 6) / Stroke ⁶	sec / inches	1.3 / 7.9	1.3 / 7.9	1.6 / 12.4	1.6 / 12.4	2.0 / 12.99	2.0 / 12.99	2.0 / 12.99
Drive								
Rated drive power	HP	-	-	-	-	-	-	-
Oil reservoir capacity	US gal	-	-	-	-	-	-	-
Weight and Dimensions								
Clamp/Injection unit Weight (excluding oil)	lbs	13000	13220	23149	25353	33069	34200	36300
Length x Width x Height	inches	172 x 59 x 84	172 x 59 x 84	206 x 68 x 86	206 x 68 x 86	229 x 74 x 86	248 x 74 x 88	248 x 74 x 88
Suitable Engel Robots		ERC 23 E	ERC 23 E	ERC 23, Tli 51	ERC 23, Tli 51	ERC 43, Tli61	ERC 43, Tli61	ERC 43, Tli 61

CLASSIC (Toggle/Tiebar)

Sizes from 610 - 1100 US tons

International Size Designation ¹	5500-2550	6000-4000	7500-5400	8000-6000	9000-8700	10000-13000	
Machine designations	CL 2550/610 US	CL 3550/660 US	CL 4550/830 US	CL 5550/880 US	CL 7050/1000 US	CL 11050/1100 US	
Injection Unit	2550	3550	4550	5550	7050	11050	
Screw diameter	mm	70/80/85	70/80/90	80/90/105	80/90/105	90/105/120	105/120/135
Screw Stroke	inches	12.20	15.35	15.35	16.93	18.90	22.40
Max. shot weight	oz. GPPS	38.7 / 50.5 / 57.1	48.7 / 63.6 / 80.5	63.6 / 80.5 / 110	70.1 / 88.8 / 120.8	99.1 / 134.9 / 176.2	160 / 209 / 265
Max. injection capacity	inches ³	72.8 / 95.1 / 107.3	91.6 / 119.6 / 151.4	119.6 / 151.4 / 206.1	131.9 / 166.9 / 227.2	186.4 / 253.7 / 331.3	302 / 394 / 498
Screw speed	rpm	183 / 183 / 183	150 / 150 / 150	140 / 140 / 140	148 / 148 / 148	130 / 130 / 130	120
L/D ratio (3 zone screw)		20:1	20:1	20:1	20:1	20:1	20:1
Recovery rate (3 zone screw) ^{2,3,4}	oz/sec	2.3 / 3.2 / 3.8	1.3 / 1.8 / 2.6	1.8 / 2.5 / 3.5	1.8 / 2.7 / 3.7	2.3 / 3.3 / 4.6	3.0 / 4.3 / 5.9
L/D ratio (barrier screw)		24:1	24:1	24:1	24:1	22:1	22:1
Recovery rate (barrier screw) ^{4,5}	oz/sec	2.9 / 4.0 / 4.7	2.4 / 3.3 / 4.4	3.1 / 4.2 / 6.1	3.2 / 4.4 / 6.5	3.6 / 5.3 / 7.4	4.8 / 6.7 / 9.0
Injection rate (regenerative) ⁶	in ³ /sec	22.3 / 29.2 / 32.9	21.4 / 28.1 / 35.4	25.6 / 32.3 / 43.9	27.2 / 34.4 / 47.0	35.8 / 48.7 / 63.6	46.3 / 60.4 / 76.6
Injection pressure (regenerative)	psi	26400 / 20300 / 17800	32600 / 25100 / 19700	33400 / 27700 / 20300	33400 / 27700 / 20300	32633 / 23931 / 18274	28000 / 21500 / 17000
Injection pressure (max)	psi	31000 / 23800 / 21000	33400 / 29400 / 23200	33400 / 31600 / 23200	33400 / 31600 / 23200	33223 / 30346 / 23234	33350 / 29300 / 23200
Nozzle stroke / Contact force	inches / US tons	20.0 / 12.4	23.6 / 16.9	23.6 / 16.9	23.6 / 16.8	23.6 / 16.8	37.4 / 16.9
Total heating wattage	kw	29 / 34 / 36	42 / 48 / 56	48 / 56 / 64	48 / 56 / 64	56 / 68 / 80	68 / 80 / 88
Number of heating zones incl. nozzle		4 /+Nozzle	5+Nozzle	5+Nozzle	5+Nozzle	5+Nozzle	5+Nozzle
Clamping Unit		CL /610 US	CL /660 US	CL /830 US	CL /880 US	CL /1000 US	CL /1100 US
Clamp force	US tons	610	660	830	880	1000	1100
Clamp stroke	inches	33.5	33.5	35.4	39.4	39.4	43.3
Mold height min - max	inches	12.2 / 31.5	12.2 / 31.5	15.7 / 36.2	15.7 / 39.4	15.7 / 39.4	15.7 / 47.2
Daylight max.	inches	65.0	65.0	71.7	78.8	78.8	90.5
Platen size (H x V)	inches	53.0 x 50.4	53.0 x 50.4	59.1 x 54.7	63.8 x 60.0	63.8 x 60.0	78.3 x 68.5
Enlarged Platen (H x V)	inches	-	-	-	-	-	-
Tiebar spacing (H x V)	inches	36.0 x 33.4	36.0 x 33.4	40.4 x 36.4	44.0 x 40.4	44.0 x 40.4	55.1 x 45.3
Drop out width	inches	36	36	40.4	44.0	44.0	55.1
Max mold weight	lbs.	15,400	15,400	19800	28640	28640	39600
Number of mold cooling circuitis	# x US Gal/min	-	-	-	-	-	-
Ejector stroke / force	inches / US tons	9.8 / 12.1	9.8 / 12.1	9.8 / 12.3	11.8 / 24	11.8 / 24	11.8 / 24
Dry cycle (Euromp 6) / Stroke	sec / inches	3.2 / 23.6	3.2 / 23.6	3.6 / 27.6	3.9 / 29.5	3.9 / 29.5	4.9 / 39.4
Drive							
Rated drive power	HP	60	75	100	120	150	175
Oil reservoir capacity	US gal	185	265	265	265	425	425
Weight and Dimensions							
Clamp/Injection unit Weight (excluding oil)	lbs	44000 / 16600	44000 / 22000	58000 / 22000	76000 / 22000	76000 / 37400	141000 / 39600
Length x Width x Height	inches	336 x 97 x 87	351 x 97 x 87	380 x 103 x 88	406 x 104 x 95	436 x 104 x 95	482.5 x 131 x 103
Suitable Engel Robots		ERC 53 - 63	ERC 53 - 63	ERC 63 - 73	ERC 63 - 73	ERC 83	ERC 83

CLASSIC Speed (Fast Cycling Toggle/Tiebar)

Sizes from 350 - 610 US tons

International Size Designation ¹	3180-2600	3500-2600	4500-4300	5500-4300	
Machine designations	CL 2550/350 Speed US	CL 2550/390 Speed US	CL 3550/500 Speed US	CL 4550/610 Speed US	
Injection Unit	2550 Speed	2550 Speed	3550 Speed	4550 Speed	
Screw diameter	mm	70	70	80	90
Screw Stroke	inches	12.2	12.20	15.35	15.35
Max. shot weight	oz. GPPS	38.7	38.7	63.6	80.5
Max. injection capacity	inches ³	72.8	72.8	119.6	151.4
Screw speed	rpm	230	230	180	168
L/D ratio (3 zone screw)		-	-	-	-
Recovery rate (3 zone screw) ^{2,3,4}	oz/sec	-	-	-	-
L/D ratio (barrier screw)		24:1	24:1	24:1	24:1
Recovery rate (barrier screw) ^{1, 4, 5}	oz/sec	3.6	3.6	3.9	4.9
Injection rate (regenerative) ⁶	in ³ /sec	70.1	70.1	92.1	116.0
Injection pressure (regenerative)	psi	31900	31900	31900	31900
Injection pressure (max)	psi	31900	31900	31900	31900
Nozzle stroke / Contact force	inches / US tons	19.68 / 12.4	19.68 / 12.4	23.62 / 14	23.62 / 14
Total heating wattage	kw	37	37	56.0	64
Number of heating zones incl. nozzle		5 + Nozzle	5 + Nozzle	5+Nozzle	5+Nozzle
Clamping Unit	CL /350 US	CL /390 US	CL /500 US	CL /610 US	
Clamp force	US tons	350	390	500	610
Clamp stroke	inches	27.56	27.56	27.56	33.46
Mold height min - max	inches	9.84 / 25.98	9.84 / 25.98	9.84 / 29.52	12.20 / 31.49
Daylight max.	inches	53.54	53.54	57.08	64.96
Platen size (H x V)	inches	42.52 x 42.52	42.52 x 42.52	47.24 x 47.24	52.95 x 50.39
Enlarged Platen (H x V)	inches	-	-	-	-
Tiebar spacing (H x V)	inches	28.94 x 28.94	28.94 x 28.94	33.07 x 33.07	36.02 x 33.86
Drop out width	inches	-	-	-	-
Max mold weight	lbs.	7900	7900	9900	8820
Number of mold cooling circuitis	# x US Gal/min	14 x 7.9	14 x 7.9	14 x 7.9	14 x 7.9
Ejector stroke / force	inches / US tons	9.45 / 7.8	9.45 / 7.8	9.45 / 7.8	9.84 / 12.4
Dry cycle (Euromp 6) / Stroke	sec / inches	1.9 / 19.7	1.9 / 19.7	2.2 / 23.62	2.4 / 23.62
Drive					
Rated drive power	HP	60 + 48*	60 + 48*	74 + 65*	100 + 85*
Oil reservoir capacity	US gal	185	185	264	264
Weight and Dimensions					
Clamp/Injection unit Weight (excluding oil)	lbs	55120	55120	64000	68000
Length x Width x Height	inches	348 x 81 x 98	348 x 81 x 98	339 x 81 x 98	377 x 97 x 86
Suitable Engel Robots		ERC 43 - 53	ERC 43 - 53	ERC 43 - 53	ERC 53 - 63

* Electric Screw Drive / Tornillo eléctrico

DUO (Two Platen)
 Sizes from 720 - 1900 US tons

DUO (Two Platen)
 Sizes from 2500 - 6000 US tons

International Size Designation ¹	6500-4000	7000-5400	8000-5400	9000-6000	10000-8700	11000-13000	15000-13000	17000-17500	23000-23200	27000-23200	32000-35000	40000-46000	50000-80000	55000-128000
Machine designations	DUO 3550/720 US	DUO 4550/770 US	DUO 4550/900 US	DUO 5550/1000 US	DUO 7050/1100 US	DUO 11050/1250 US	DUO 11050/1650 US	DUO 16050/1900 US	DUO 23050/2500 US	DUO 23050/3000 US	DUO 35050/3500 US	DUO 45050/4400 US	DUO 75050/5500 US	DUO 130000/6000 US
Injection Unit	3550	4550	4550	5550	7050	11050	11050	16050	23050	23050	35050	45050	75050	130000
Screw diameter	mm 70/80/90	80/90/105	80/90/105	80/90/105	90/105/120	105/120/135	105/120/135	120/135/150	135/150/160	135/150/160	160/170/180	180/190/200	215/230/245	245/260
Screw Stroke	inches 15.35	15.35	15.35	15.35	16.93	18.90	22.40	24.40	28.30	28.30	33.90	35.40	41.30	53.10
Max. shot weight	oz. GPPS 48.7 / 63.6 / 80.5	63.6 / 80.5 / 110	63.6 / 80.5 / 110	70.1 / 88.8 / 120.8	99.1 / 134.9 / 176.2	160 / 209 / 265	160 / 209 / 265	227 / 288 / 356	335 / 413 / 470	335 / 413 / 470	561 / 633 / 710	743 / 828 / 917	1240 / 1416 / 1606	2070 / 2330
Max. injection capacity	inches ³ 91.6 / 119.6 / 151.4	119.6 / 151.4 / 206.1	119.6 / 151.4 / 206.1	131.9 / 166.9 / 227.2	186.4 / 253.7 / 331.3	302 / 394 / 498	302 / 394 / 498	428 / 541 / 669	629 / 777 / 883	629 / 777 / 883	1055 / 1191 / 1335	1397 / 1557 / 1725	2326 / 2662 / 3021	3884 / 4374
Screw speed	rpm 150 / 150 / 150	140 / 140 / 140	140 / 140 / 140	148 / 148 / 148	130 / 130 / 130	120	120	100	85	85	85	80	60	42
L/D ratio (3 zone screw)	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	22:1	22:1	22:1	22:1
Recovery rate (3 zone screw) ^{2,3,4}	oz/sec 1.3 / 1.8 / 2.6	1.8 / 2.5 / 3.5	1.8 / 2.5 / 3.5	1.8 / 2.7 / 3.7	2.3 / 3.3 / 4.6	3.0 / 4.3 / 5.9	3.0 / 4.3 / 5.9	3.6 / 4.9 / 6.5	4.1 / 5.5 / 6.7	4.1 / 5.5 / 6.7	6.7 / 7.8 / 9.1	8.5 / 9.9 / 11.3	9.9 / 11.8 / 13.9	9.3 / 10.9
L/D ratio (barrier screw)	24:1	24:1	24:1	24:1	22:1	22:1	22:1	22:1	22:1	22:1	22:1	22:1	24:1	25:1
Recovery rate (barrier screw) ^{1,4,5}	oz/sec 2.4 / 3.3 / 4.4	3.1 / 4.2 / 6.1	3.1 / 4.2 / 6.1	3.2 / 4.4 / 6.5	3.6 / 5.3 / 7.4	4.8 / 6.7 / 9.0	4.8 / 6.7 / 9.0	5.6 / 7.6 / 9.8	6.4 / 8.4 / 9.8	6.4 / 8.4 / 9.8	9.8 / 11.5 / 13.2	12.5 / 14.3 / 16.2	15.2 / 18.0 / 21.2	14.1 / 16.4
Injection rate (regenerative) ⁶	in ³ /sec 21.4 / 28.1 / 35.4	25.6 / 32.3 / 43.9	25.6 / 32.3 / 43.9	27.2 / 34.4 / 47.0	35.8 / 48.7 / 63.6	46.3 / 60.4 / 76.6	46.3 / 60.4 / 76.6	60 / 76 / 94	88 / 109 / 124	88 / 109 / 124	111 / 126 / 141	132 / 148 / 164	153 / 175 / 198	201 / 226
Injection pressure (regenerative)	psi 32600 / 25100 / 19700	33400 / 27700 / 20300	33400 / 27700 / 20300	33400 / 27700 / 20300	32633 / 23931 / 18274	28000 / 21500 / 17000	28000 / 21500 / 17000	30160 / 23780 / 19285	25200 / 20400 / 18000	25200 / 20400 / 18000	22500 / 19900 / 17700	22800 / 20500 / 18400	23200 / 20300 / 17400	23200 / 20300
Injection pressure (max)	psi 33400 / 29400 / 23200	33400 / 31600 / 23200	33400 / 31600 / 23200	33400 / 31600 / 23200	33223 / 30346 / 23234	33350 / 29300 / 23200	33350 / 29300 / 23200	33350 / 28710 / 23200	32600 / 26400 / 23200	32600 / 26400 / 23200	29400 / 26100 / 23230	29145 / 26100 / 23600	30500 / 26700 / 23200	29000 / 26100
Nozzle stroke / Contact force	inches / US tons 27.55 / 16.9	27.55 / 16.9	27.55 / 16.9	27.6 / 16.9	27.6 / 16.9	27.6 / 16.9	27.6 / 16.9	37.4 / 23.6	43.3 / 24	51.2 / 24	51.2 / 24	59.1 / 24	68.9 / 24	68.9 / 24
Total heating wattage	kw 42.0 / 48.0 / 56.0	48.0 / 56.0 / 64.0	48.0 / 56.0 / 64.0	48 / 56 / 64	56 / 68 / 80	68 / 80 / 88	68 / 80 / 88	89 / 99 / 113	99 / 113 / 135	99 / 113 / 135	152 / 164 / 195	195 / 206 / 213	280 / 300 / 320	320 / 340
Number of heating zones incl. nozzle	5+Nozzle	5+Nozzle	5+Nozzle	5+Nozzle	5+Nozzle	5+Nozzle	5+Nozzle	5+Nozzle	5+Nozzle	5 / 6 / 6 +Nozzle	5 / 6 / 6 +Nozzle	6 / 7 / 7 +Nozzle	7 / 8 / 8 +Nozzle	10 / 11 / 12 +Nozzle
Clamping Unit	DUO /720 US	DUO /770 US	DUO /900 US	DUO /1000 US	DUO /1100 US	DUO /1250 US	DUO /1650 US	DUO /1900 US	DUO /2500 US	DUO /3000 US	DUO /3500 US	DUO /4400 US	DUO /5500 US	DUO /6000 US
Clamp force	US tons 720	770	900	1000	1100	1250	1650	1900	2500	3000	3500	4400	5500	6000
Clamp stroke	inches 53.0	53.0	63.0	63.0	70.9	70.9	92.5	100.4	118.0	122.0	122.0	129.9	177.2	177.2
Mold height min - max	inches 17.7 / 37.4	17.7 / 37.4	19.7 / 43.3	19.7 / 43.3	23.6 / 47.2	23.6 / 47.2	27.6 / 55.1	31.5 / 63.0	31.5 / 70.9	31.5 / 78.7	43.3 / 78.7	43.3 / 86.6	59.1 / 98.4	59.1 / 98.4
Daylight max.	inches 70.9	70.9	87.2	87.2	94.5	94.5	120.0	131.9	149.6	153.5	165.4	173.2	236.2	236.2
Platen size (H x V)	inches 57.7 x 53.5	57.7 x 53.5	65.0 x 57.9	65.0 x 57.9	78.7 x 72.0	78.7 x 72.0	92.1 x 80.3	103.9 x 88.6	114.2 x 98.4	120.1 x 103.5	123.3 x 106.7	132.0 x 118.0	137.8 x 137.8	137.8 x 137.8
Enlarged Platen (H x V)	inches -	-	-	-	-	-	-	-	-	-	-	-	-	-
Tiebar spacing (H x V)	inches 40.3 x 36.6	40.3 x 36.6	46.0 x 39.4	46.0 x 39.4	55.1 x 45.3	55.1 x 45.3	60.2 x 50.0	71.1 x 55.3	78.74 x 63.0	85.6 x 68.9	85.6 x 68.9	89.0 x 71.0	98.4 x 98.4	98.4 x 98.4
Drop out width	inches 40.0	40.0	46.0	46.0	55.1	55.1	60.2	71.1	78.74	85.6	85.6	89.0	98.4	98.4
Max mold weight	lbs. 22270	22270	28640	28640	46300	46300	66150	99100	136710	165375	178400	198450	286650	286650
Number of mold cooling circuits	# x US Gal/min -	-	-	-	-	-	-	-	-	-	-	-	-	-
Ejector stroke / force	inches / US tons 9.8 / 12.4	9.8 / 12.4	11.8 / 20	11.8 / 20	11.8 / 24	11.8 / 24	11.8 / 25.8	11.8 / 25.30	13.8 / 43	15.7 / 45	15.7 / 45	15.7 / 45	23.6 / 89.90	23.6 / 89.90
Dry cycle (Euromp 6) / Stroke	sec / inches 3.8 / 27.6	3.8 / 27.6	5.1 / 31.5	5.1 / 31.5	5.3 / 39.4	5.3 / 39.4	5.7 / 43.3	6.2 / 51.2	8.2 / 55.2	8.5 / 59.1	11 / 59.1	12.5 / 63	14 / 68.9	14 / 68.9
Drive														
Rated drive power	HP 75	100	100	120	150	175	175	220	301	301	362	443	590	738
Oil reservoir capacity	US gal 265	265	265	265	425	425	425	634	795	795	1060	1060	1453	1585
Weight and Dimensions														
Clamp/Injection unit Weight (excluding oil)	lbs 52910 / 22000	52910 / 22000	74000 / 22000	74000 / 22000	106000 / 37400	106000 / 39600	141000 / 39600	180000 / 57200	250000 / 66000	330600 / 66000	386000 / 86000	474000 / 92400	706000 / 147400	706000 / 242000
Length x Width x Height	inches 327 x 99 x 93	327 x 99 x 93	352 x 119 x 97	352 x 119 x 97	397 x 132 x 105	402 x 132 x 105	458 x 146 x 114	483 x 158 x 122	564 x 170 x 136	590 x 185 x 148	646 x 190 x 153	671 x 213 x 167	919 x 217 x 207	974 x 217 x 207
Suitable Engel Robots	ERC 73	ERC 73	ERC 83	ERC 83 - 94	ERC 83 - 94	ERC 83 - 94	ERC 83 - 114	ERC 83 - 114	ERC 83 - 114	ERC 124	ERC 134	ERC 144	ERC 144	ERC 144

INSERT H (Vertical Clamp/Horizontal Injection)

Sizes from 55 - 300 US tons

International Size Designation ¹	500-200	770-330	1140-330	1360-500	1360-600	1820-700	1820-700	2730-1300	
Machine designations	IN 200H/55 US	IN 330H/85 US	IN 330H/125 US	IN 500H/150 US	IN 600H/150 WP US	IN 700H/200 US	IN 700H/200 WP US	IN 1300H/300 US	
Injection Unit	200H	330H	330H	500H	600H	700H	700H	1300H	
Screw diameter	mm	25/30/35	30/35/40	30/35/40	35/40/45	40/45/50	45/50/55	45/50/55	55/60/70
Screw Stroke	inches	5.50	6.30	6.30	7.87	7.87	7.87	7.87	10.63
Max. shot weight	oz. GPPS	2.2 / 3.2 / 4.4	3.7 / 5.0 / 6.5	3.7 / 5.0 / 6.5	6.2 / 8.2 / 10.3	8.2 / 10.3 / 12.7	10.3 / 12.7 / 15.4	10.3 / 12.7 / 15.4	20.8 / 24.8 / 33.7
Max. injection capacity	inches ³	4.2 / 6.0 / 8.2	6.9 / 9.4 / 12.3	6.9 / 9.4 / 12.3	11.7 / 15.3 / 19.4	15.3 / 19.4 / 24.0	19.4 / 24.0 / 29.0	19.4 / 24.0 / 29.0	39.1 / 46.6 / 63.4
Screw speed	rpm	480	420 / 420 / 320	420 / 420 / 320	400 / 400 / 400	297	238	238	217
L/D ratio (3 zone screw)		24:1 / 20:1 / 17.1:1	23.3:1 / 20:1 / 17.5:1	23.3:1 / 20:1 / 17.5:1	20:1	20:1	20:1	20:1	20:1
Recovery rate (3 zone screw) ^{2,3,4}	oz/sec	0.4 / 0.6 / 0.9	0.5 / 0.8 / 1.2	0.5 / 0.8 / 1.2	0.8 / 1.1 / 1.5	0.8 / 1.1 / 1.5	0.9 / 1.2 / 1.6	0.9 / 1.2 / 1.6	1.4 / 1.8 / 2.7
L/D ratio (barrier screw)		-	-	-	-	-	-	-	-
Recovery rate (barrier screw) ^{4,5}	oz/sec	-	-	-	-	-	-	-	-
Injection rate (regenerative) ⁶	in ³ /sec	5.9 / 8.5 / 11.6	6.8 / 9.2 / 12.1	6.8 / 9.2 / 12.1	9.3 / 12.1 / 15.4	8.7 / 11.1 / 13.7	12.0 / 14.9 / 18.0	12.0 / 14.9 / 18.0	16.7 / 19.9 / 20.0
Injection pressure (regenerative)	psi	19726 / 19726 / 15455	22072 / 22072 / 17763	22072 / 22072 / 17763	22334 / 18875 / 14911	22129 / 20043 / 16236	22986 / 18931 / 15643	22986 / 18931 / 15643	24545 / 20622 / 20459
Injection pressure (max)	psi	30000 / 30000 / 23505	30000 / 30000 / 24143	30000 / 30000 / 24143	34640 / 29275 / 23128	30000 / 27173 / 22011	30000 / 24708 / 20416	30000 / 24708 / 20416	28304 / 23780 / 22780
Nozzle stroke / Contact force	inches / US tons	13.00 / 1.7	13.00 / 2.8	13.00 / 2.8	11.81 / 3.0	15.75 / 4.0	15.75 / 4.0	15.75 / 4.0	17.72 / 6.6
Total heating wattage	kw	4.8	7.2	7.2	9.6 / 9.6 / 12.6	9.1 / 10.7 / 11.7	10.7 / 11.7 / 13.1	10.7 / 11.7 / 13.1	14.7 / 15.9 / 19.1
Number of heating zones incl. nozzle		3 + Nozzle	3 + Nozzle	3 + Nozzle	3 + Nozzle	4 + Nozzle	4 + Nozzle	4 + Nozzle	4 + Nozzle
Clamping Unit		IN /55 US	IN /85 US	IN /125 US	IN /150 US	IN /150 WP US	IN /200 US	IN /200 WP US	IN /300 US
Clamp force	US tons	55	85	125	150	150	200	200	300
Clamp stroke	inches	11.81	11.81	15.74	15.74	15.74	15.74	15.74	19.68
Mold height min - max	inches	11.02 / N/A	11.02 / N/A	15.74 / N/A	15.74 / N/A	15.74 / N/A	15.74 / N/A	15.74 / N/A	11.81 / N/A
Daylight max.	inches	22.83	22.83	31.49	31.49	31.49	31.49	31.49	31.49
Platen size (H x V)	inches	21.65 x 13.23	21.65 x 13.23	31.89 x 17.72	31.89 x 17.72	39.40 x 24.4	31.89 x 17.72	39.40 x 24.4	39.37 x 25.1
Enlarged Platen (H x V)	inches	Ø 38.38*	Ø 38.38*	Ø 46.45*	Ø 46.45*	Ø 62.00*	Ø 46.45*	Ø 62.00*	Ø 62.00*
Tiebar spacing (H x V)	inches	-	-	-	-	-	-	-	-
Drop out width	inches	-	-	-	-	-	-	-	-
Max mold weight	lbs.	-	-	-	-	-	-	-	-
Number of mold cooling circuitis	# x US Gal/min	-	-	-	-	-	-	-	-
Ejector stroke / force	inches / US tons	5.00 / 1.3	5.00 / 1.3	6.30 / 1.8	6.30 / 1.8	5.90 / 1.8	6.30 / 1.8	5.90 / 1.8	5.90 / 4.3
Dry cycle (Euromp 6) / Stroke ⁶	sec / inches	1.65 / 11.81	1.65 / 11.81	2.86 / 15.75	2.86 / 15.75	2.86 / 15.75	2.86 / 15.75	2.86 / 15.75	6.04 / 19.7
Drive									
Rated drive power	HP	30	30	30	30	30	40	40	50
Oil reservoir capacity	US gal	106	106	106	106	106	106	106	158
Weight and Dimensions									
Clamp/Injection unit Weight (excluding oil)	lbs	14800	16600	33000	33000	37400	33000	37400	47000
Length x Width x Height	inches	130 x 102 x 110	130 x 102 x 110	136 x 105 x 125	150 x 105 x 125	200 x 115 x 130	174 x 105 x 125	200 x 115 x 130	235 x 109 x 148
Suitable Engel Robots		ERC23, ERV21	ERC23, ERV21	ERC23, ERV31	ERC23, ERV31	ERC23, ERV31	ERC23, ERV31	ERC23, ERV31	ERC23, ERV41

* Rotary table diameter / Diametro de mesa rotativa

INSERT V (Vertical Clamp/Vertical Injection)

Sizes from 60 - 150 US tons

International Size Designation ¹		550-200	820-330	1140-330	1360-500
Machine designations		IN 200V/60 US	IN 330V/90 WP US	IN 330V/125 US	IN 500V/150 US
Injection Unit		200V	330V	330V	500V
Screw diameter	mm	25/30/35	30/35/40	30/35/40	35/40/45
Screw Stroke	inches	5.50	6.30	6.30	7.87
Max. shot weight	oz. GPPS	2.2 / 3.2 / 4.4	3.7 / 5.0 / 6.5	3.7 / 5.0 / 6.5	6.2 / 8.2 / 10.3
Max. injection capacity	inches ³	4.2 / 6.0 / 8.2	6.9 / 9.4 / 12.3	6.9 / 9.4 / 12.3	11.7 / 15.3 / 19.4
Screw speed	rpm	480	420 / 420 / 320	420 / 420 / 320	400 / 400 / 400
L/D ratio (3 zone screw)		24:1 / 20:1 / 17.1:1	23.3:1 / 20:1 / 17.5:1	23.3:1 / 20:1 / 17.5:1	20:1
Recovery rate (3 zone screw) ^{2,3,4}	oz/sec	0.4 / 0.6 / 0.9	0.5 / 0.8 / 1.2	0.5 / 0.8 / 1.2	0.8 / 1.1 / 1.5
L/D ratio (barrier screw)		-	-	-	-
Recovery rate (barrier screw) ^{4,5}	oz/sec	-	-	-	-
Injection rate (regenerative) ⁶	in ³ /sec	5.9 / 8.5 / 11.6	6.8 / 9.2 / 12.1	6.8 / 9.2 / 12.1	9.3 / 12.1 / 15.4
Injection pressure (regenerative)	psi	19726 / 19726 / 15455	22072 / 22072 / 17763	22072 / 22072 / 17763	22334 / 18875 / 14911
Injection pressure (max)	psi	30000 / 30000 / 23505	30000 / 30000 / 24143	30000 / 30000 / 24143	34640 / 29275 / 23128
Nozzle stroke / Contact force	inches / US tons	16.92 / 1.7	17.32 / 2.8	17.32 / 2.8	18.50 / 2.8
Total heating wattage	kw	4.8	7.2	7.2	9.6 / 9.6 / 12.6
Number of heating zones incl. nozzle		3 + Nozzle	3 + Nozzle	3 + Nozzle	3 + Nozzle
Clamping Unit		IN /60 US	IN /90 US	IN /125 US	IN /150 US
Clamp force	US tons	60	90	125	150
Clamp stroke	inches	13.77	13.77	17.71	17.71
Mold height min - max	inches	7.55 / N/A	7.48 / N/A	7.48 / N/A	7.48 / N/A
Daylight max.	inches	21.33	21.25	25.19	25.19
Platen size (H x V)	inches	53.14 x 17.55	53.14 x 17.55	62.99 x 23.32	62.99 x 23.32
Enlarged Platen (H x V)	inches	Ø 38.38	Ø 46.45	Ø 62.00	Ø 62.00
Tiebar spacing (H x V)	inches	-	-	-	-
Drop out width	inches	-	-	-	-
Max mold weight	lbs.	-	-	-	-
Number of mold cooling circuitis	# x US Gal/min	-	-	-	-
Ejector stroke / force	inches / US tons	5.00 / 1.3	6.30 / 1.8	5.90 / 4.3	5.90 / 4.3
Dry cycle (Euromp 6) / Stroke ⁶	sec / inches	2.23 / 13.78	2.23 / 13.78	2.94 / 13.78	2.94 / 13.78
Drive					
Rated drive power	HP	30	30	30	30
Oil reservoir capacity	US gal	106	106	106	106
Weight and Dimensions					
Clamp/Injection unit Weight (excluding oil)	lbs	16000	17000	24000	24320
Length x Width x Height	inches	133 x 93 x 139	137 x 93 x 144	158 x 97 x 146	158 x 97 x 152
Suitable Engel Robots		ERC23, ERV21	ERC23, ERV21	ERC23, ERV31	ERC23, ERV31

* Rotary table diameter / Diametro de mesa rotativa