

	ES 2000 DUO				ES 2500 DUO				ES 3000 DUO				ES 3500 DUO				
	US tons	2000	23050	16050	23050	16050	23050	16050	23050	16050	23050	16050	23050	16050	23050	16050	23050
Clamp force	US tons	2000	23050	16050	23050	16050	23050	16050	23050	16050	23050	16050	23050	16050	23050	16050	23050
Clamp opening force	US tons	138.3	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8
Clamp stroke (max)	inches	106.30	118.11	118.11	118.11	118.11	118.11	118.11	118.11	118.11	118.11	118.11	118.11	118.11	118.11	118.11	118.11
Mold height (min - max)	inches	31.50 - 62.99	31.50 - 70.86	31.50 - 70.86	31.50 - 70.86	31.50 - 70.86	31.50 - 70.86	31.50 - 70.86	31.50 - 70.86	31.50 - 70.86	31.50 - 70.86	31.50 - 70.86	31.50 - 70.86	31.50 - 70.86	31.50 - 70.86	31.50 - 70.86	31.50 - 70.86
Day/light	inches	137.80	149.60	149.60	149.60	149.60	149.60	149.60	149.60	149.60	149.60	149.60	149.60	149.60	149.60	149.60	149.60
Platen size (HxV)		105.90 x 88.90	114.17 x 98.42	114.17 x 98.42	114.17 x 98.42	114.17 x 98.42	114.17 x 98.42	114.17 x 98.42	114.17 x 98.42	114.17 x 98.42	114.17 x 98.42	114.17 x 98.42	114.17 x 98.42	114.17 x 98.42	114.17 x 98.42	114.17 x 98.42	114.17 x 98.42
Distance between the bars (HxV)		72.83 x 55.12	78.74 x 62.99	78.74 x 62.99	78.74 x 62.99	78.74 x 62.99	78.74 x 62.99	78.74 x 62.99	78.74 x 62.99	78.74 x 62.99	78.74 x 62.99	78.74 x 62.99	78.74 x 62.99	78.74 x 62.99	78.74 x 62.99	78.74 x 62.99	78.74 x 62.99
The bar diameter	inches	11.81	12.99	12.99	12.99	12.99	12.99	12.99	12.99	12.99	12.99	12.99	12.99	12.99	12.99	12.99	12.99
Hydraulic ejector stroke	inches	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75	15.75
Hydraulic ejector force	tons	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
INJECTION																	
Screw diameter	mm	120	135	150	160	160	160	160	160	160	160	160	160	160	160	160	160
Screw diameter	inches	4.724	5.315	5.906	6.299	6.299	6.299	6.299	6.299	6.299	6.299	6.299	6.299	6.299	6.299	6.299	6.299
Shot size 1+3	oz	227.6	288.1	355.6	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9	469.9
Injection capacity	in³	427.9	541.6	668.6	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5
Recovery rate 2+3	oz/sec	3.6	4.9	6.5	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
Plasticizing capacity 2+3	lbs/hr	809	1095	1468	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966	1966
Injection rate at max. press. 4	in³/sec	49.1	62.1	76.7	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
Injection rate (regenerative) 4	in³/sec	59.6	75.4	93.1	124.7	124.7	124.7	124.7	124.7	124.7	124.7	124.7	124.7	124.7	124.7	124.7	124.7
Injection velocity at max. press. 4	in/sec	2.8	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
Injection velocity (regenerative) 4	in/sec	3.4	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Screw stroke	inches	24.41	28.35	28.35	28.35	28.35	28.35	28.35	28.35	28.35	28.35	28.35	28.35	28.35	28.35	28.35	28.35
Injection pressure (max)	psi	33220	28725	23273	23200	23200	23200	23200	23200	23200	23200	23200	23200	23200	23200	23200	23200
Injection pressure (regenerative)	psi	30160	23824	19300	17966	17966	17966	17966	17966	17966	17966	17966	17966	17966	17966	17966	17966
Screw speed max (min=25)	rpm	100	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85
Screw torques	ft-lbs	10326	13733	13733	13733	13733	13733	13733	13733	13733	13733	13733	13733	13733	13733	13733	13733
Screw L/D ratio		20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1	20:1
Nozzle stroke	inches	51.18	51.18	51.18	51.18	51.18	51.18	51.18	51.18	51.18	51.18	51.18	51.18	51.18	51.18	51.18	51.18
Nozzle force	US tons	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61
HYDRAULICS																	
Pump capacity (required)	gpm	233	285	233	285	285	285	285	285	285	285	285	285	285	285	285	285
Oil reservoir capacity	US gal	1135	1135	1135	1135	1135	1135	1135	1135	1135	1135	1135	1135	1135	1135	1135	1135
ELECTRICS																	
Power supply available	volts	460/575-3Ph/60Hz	460/575-3Ph/60Hz	460/575-3Ph/60Hz	460/575-3Ph/60Hz	460/575-3Ph/60Hz	460/575-3Ph/60Hz	460/575-3Ph/60Hz	460/575-3Ph/60Hz	460/575-3Ph/60Hz	460/575-3Ph/60Hz	460/575-3Ph/60Hz	460/575-3Ph/60Hz	460/575-3Ph/60Hz	460/575-3Ph/60Hz	460/575-3Ph/60Hz	460/575-3Ph/60Hz
Total rated horsepower	HP	225 + 10	300 + 10	225 + 10	300 + 10	300 + 10	300 + 10	300 + 10	300 + 10	300 + 10	300 + 10	300 + 10	300 + 10	300 + 10	300 + 10	300 + 10	300 + 10
Number of heat control zones		5+N 5+N 6+N	5+N 6+N 6+N	5+N 5+N 6+N	5+N 6+N 6+N	5+N 6+N 6+N	5+N 6+N 6+N	5+N 6+N 6+N	5+N 6+N 6+N	5+N 6+N 6+N	5+N 6+N 6+N	5+N 6+N 6+N	5+N 6+N 6+N	5+N 6+N 6+N	5+N 6+N 6+N	5+N 6+N 6+N	5+N 6+N 6+N
Total heating wattage	kw	62 62 71	77 113 135	62 62 71	77 113 135	77 113 135	77 113 135	77 113 135	77 113 135	77 113 135	77 113 135	77 113 135	77 113 135	77 113 135	77 113 135	77 113 135	77 113 135
GENERAL																	
Dry cycle performance	sec	7.2	7.2	9.0	9.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
Water requirements (max)	gpm	40	44	40	44	44	44	44	44	44	44	44	44	44	44	44	44
Machine dimensions (LxWxH)	inches	582 x 157 x 120	582 x 157 x 120	582 x 169 x 133	582 x 169 x 133	606 x 185 x 148	606 x 185 x 148	634 x 185 x 148	634 x 185 x 148	634 x 185 x 148	634 x 185 x 148	634 x 185 x 148	634 x 185 x 148	634 x 185 x 148	634 x 185 x 148	634 x 185 x 148	634 x 185 x 148
Machine weight	lbs	209475 / 65000	209475 / 80000	264556 / 65000	264556 / 80000	330696 / 80000	330696 / 80000	330696 / 85980	330696 / 85980	330696 / 85980	330696 / 85980	330696 / 85980	330696 / 85980	330696 / 85980	330696 / 85980	330696 / 85980	330696 / 85980
Hopper capacity	lbs	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
Suitable Engel robots		ERC 83, ERC 203, ERC 303	ERC 303	ERC 303	ERC 303	ERC 303	ERC 303	ERC 303	ERC 303	ERC 303	ERC 303	ERC 303	ERC 303	ERC 303	ERC 303	ERC 303	ERC 303

NOTES: 1. Based on polystyrene material. 2. Base. Per Euromap 6 Standard. (NA=Not Available. OR=On Request. Std.=Standard) All data subject to change without notice