



Machine designation	Weight		L4		L5		H		H4	
	Injection unit									
	to	US tons	mm	in	mm	in	mm	in	mm	in
ES 7050 / 500, 600 HL										
ES 7050 / 550 TL US, 660 TL US	17	18.7	5540	218	950	38	2595	102	1885	74
CLASSIC 7050 / 650, 750										
CLASSIC 7050 / 720 US, 830 US	17	18.7	5540	218	600	24	2415	95	1705	67
CLASSIC 7050 / 800, 900										
CLASSIC 7050 / 880 US, 1000 US	17	18.7	5540	218	600	24	2415	95	1705	67
DUO 7050 / 650, 700										
DUO 7050 / 720 US, 770 US	17	18.7	5540	218	600	24	2415	95	1705	67
DUO 7050 / 800, 900										
DUO 7050 / 900 US, 1000 US	17	18.7	5540	218	700	28	2415	92	1705	67
DUO 7050 / 1000, 1100										
DUO 7050 / 1100 US, 1250 US	17	18.7	5540	218	700	28	2550	97	1840	72
DUO 7050 / 1300, 1500										
DUO 7050 / 1400 US, 1650 US	17	18.7	5540	218	950	38	2640	101	1930	76
DUO 7050 / 1700										
DUO 7050 / 1900 US	17	18.7	5540	218	950	38	2770	106	2060	81

Speed-controlled electric screw drive (Option)		Normal	Increased rpm	Increased torque
		Power	kW	75
	hp	100	130	100
RPM	min ⁻¹	130	155	108
Torque	Nm @ 60% ED	6900	7200	8300
	lb _r -ft @ 60% Duty	5100	5300	6100
Cooling water consumption	m ³ /h	1.3	1.4	1.3
	US gal/min	5.6	6.2	5.6

Engel Machine Designation		Standard 7050/...			Increased drive power-capacity 7050/...		
International size designation ^a		7000	8700	8700	7000	8700	8700
Screw diameter	mm	90	105	120	90	105	120
	inches	3.54	4.13	4.72	3.54	4.13	4.72
Screw stroke	mm	480					
	inches	18.9					
Injection capacity	cm ³	3050	4160	5430			
	in ³	186	254	331			
Shotweight (max.)	g (HDPE)	2200	3000	3910			
	oz (HDPE)	77	106	138			
	g (PS)	2810	3830	5000			
	oz (PS)	98.9	135	176			
Screw torque @ speed	Nm @ min ⁻¹	7200 @ 130			7200 @ 155		
	lb _r ft @ rpm	5300 @ 130			5300 @ 155		
L/D ratio (3-zone screw)		20					
Recovery rate (3-zone screw) ^b	g/sec	64	92	132	76	110	158
	oz/sec	2.25	3.24	4.65	2.68	3.87	5.56
L/D ratio (barrier screw)		22					
Recovery rate (barrier screw) ^b	g/sec	100	147	206	119	175	246
	oz/sec	3.6	5.3	7.4	4.2	6.2	8.7
Injection rate ^c	cm ³ /sec	585	800	1040	695	945	1235
	in ³ /sec	35.7	48.8	63.5	42.4	57.7	75.4
Injection rate (at max. pressure) ^c	cm ³ /sec	460	630	820	550	745	975
	in ³ /sec	28.1	38.4	50.0	33.6	45.5	59.5
Injection pressure (regenerative)	bar	2250	1650	1260			
	psi	32610	23954	18343			
Injection pressure (max.)	bar	2300	2090	1600			
	psi	33220	30350	23230			
Nozzle contact pressure	kN	150					
	US tons	16.8					
Rated drive power	kW	110			130		
	hp	150			175		
Heating wattage	kW (L/D=20)	56	68	80			
	kW (L/D=22)	62	75	90			
Total power ^d	kW	174	186	198	194	206	218
Current requirement	A @ 400V	293	311	328	332	350	367
	A @ 460V	255	270	285	283	298	313
Hopper capacity	liters	100					
	lbs/kg	110/50					
Water consumption oil cooler 25°C / 77°F	m ³ /h	4					
	US gal/min	18					
Oil reservoir capacity	liters	1800					
	US gal	476					

- a. Injection capacity [cm³] x Injection pressure max. [bar] / 1000
b. Data for HDPE (MVR 190/2,16=5cm³/10min) acc. ETR 10100
c. Theoretical values
d. Hydraulic motors + filter pump + heat