



\* Also applies to increased drive power option

Machine designation	Weight Injection unit		L4		L5		H		H4	
	to	US tons	mm	in	mm	in	mm	in	mm	in
DUO 75050 / 2500, 2700										
DUO 75050 / 2800 US, 3000 US	65	71.5	12200	480	1300	51	3650	144	2610	103
DUO 75050 / 3000, 3200										
DUO 75050 / 3300 US, 3500 US	65	71.5	12200	480	1300	51	3650	144	2610	103
DUO 75050 / 3600, 4000										
DUO 75050 / 4000 US, 4400 US	66	72.6	12200	480	1500	59	3900	154	2860	113
DUO 75050 / 5000, 5500										
DUO 75050 / 5500 US, 6000 US	67	73.7	12200	480	1750	69	4450	175	3410	134

### Speed-controlled electric screw drive (Option)

		Normal	Increased Torque
Power	kW	295	295
	hp	395	395
RPM	min <sup>-1</sup>	60	45
Torque	Nm @ 60% ED	55800	78000
	lb <sub>r</sub> -ft @ 60% Duty	41100	58000
Cooling water consumption	m <sup>3</sup> /h	1.8	1.8
	US gal/min	7.9	7.9

Engel Machine Designation		Standard 75050/...			Increased drive power 75050/ ...		
		80000	80000	80000	80000	80000	80000
<b>International size designation<sup>a</sup></b>							
Screw diameter	mm	215	230	245	215	230	245
	inches	8.5	9	9.6	8.5	9	9.6
Screw stroke	mm	1050					
	inches	41.3					
Injection capacity	cm <sup>3</sup>	38120	43620	49500			
	in <sup>3</sup>	2326	2662	3021			
Shotweight (max.)	g (HDPE)	27450	31410	35640			
	oz (HDPE)	968	1108	1257			
	g (PS)	35070	40130	45540			
	oz (PS)	1240	1416	1606			
Screw torque @ speed	Nm @min <sup>-1</sup>	55800 @ 60			53200@75		
	lb <sub>r</sub> -ft @rpm	41100 @ 60			39200 @ 75		
L/D ratio (3-zone screw)	L/D						
Recovery rate (3-zone screw) <sup>b</sup>	g/sec oz/sec						
L/D ratio (barrier screw)	L/D	24					
Recovery rate (barrier screw) <sup>b</sup>	g/sec	430	510	600	538	638	750
	oz/sec	15.2	18.0	21.2	19.0	22.5	26.5
Injection rate <sup>c</sup>	cm <sup>3</sup> /sec	2500	2870	3250	2970	3400	3857
	in <sup>3</sup> /sec	153	175	198	181	207	235
Injection rate (at max. pressure) <sup>c</sup>	cm <sup>3</sup> /sec	2020	2320	2630	2420	2770	3140
	in <sup>3</sup> /sec	123	142	161	148	169	192
Injection pressure (regenerative)	bar	1600	1400	1200			
	psi	23200	20300	17400			
Injection pressure (max.)	bar	2100	1840	1600			
	psi	30500	26700	23200			
Nozzle contact pressure	kN	210					
	US tons	24					
Rated drive power	kW	440			528		
	hp	590			708		
Heating wattage	kW (L/D=24)	305	327	349			
Total power <sup>d</sup>	kW	750	780	800	840	860	890
Current requirement	A @ 400V	1240	1270	1300	1410	1440	1480
	A @ 460V	1080	1110	1140	1240	1260	1290
Hopper capacity	liters	120					
	lbs/kg	130/60					
Water consumption oil cooler 25°C / 77°F	m <sup>3</sup> /h	18					
	US gal/min	80					
Oil reservoir capacity	liters	5500					
	US gal	1453					

- a. Injection capacity [cm<sup>3</sup>] x Injection pressure max. [bar] / 1000
- b. Data for HDPE (MVR 190/2,16=5cm<sup>3</sup>/10min) acc. ETR 10100
- c. Theoretical values
- d. Hydraulic motors + filter pump + heat