



Machine designation	Weight ^a		L5		H		H4	
	Injection unit		mm	in	mm	in	mm	in
DUO 16050 / 1000, 1100								
DUO 16050 / 1100 US, 1250 US	28	30.8	950	37	2660	105	1870	74
DUO 16050 / 1300, 1500								
DUO 16050 / 1400 US, 1650 US	28	30.8	950	37	2750	108	1960	77
DUO 16050 / 1700								
DUO 16050 / 1900 US	28	30.8	950	37	2880	113	2090	82
DUO 16050 / 2000, 2300								
DUO 16050 / 2200 US, 2500 US	28	30.8	1100	43	3050	120	2260	89
DUO 16050 / 2500, 2700								
DUO 16050 / 2800 US, 3000 US	28	30.8	1300	51	3300	130	2510	99
DUO 16050 / 3000, 3200								
DUO 16050 / 3300 US, 3500 US	28	30.8	1300	51	3300	130	2510	99

a. in case of construction with increased drive power 1 to / 1.1 US tons excess weight

Speed-controlled electric screw drive (Option)		Normal	Increased rpm	Increased torque
Power	kW	109	136	109
	hp	146	182	146
RPM	min ⁻¹	100	110	85
Torque	Nm @ 60% ED	12900	14000	15200
	lb _r -ft @ 60% Duty	9500	10300	11200
Cooling water consumption	m ³ /h	1.4	1.5	1.4
	US gal/min	6.2	6.6	6.2

Engel Machine Designation		Standard 16050/...			Increased drive power- capacity 16050/...		
		16100	17500	17500	16100	17500	17500
International size designation^a							
Screw diameter	mm	120	135	150	120	135	150
	inches	4.7	5.3	5.9	4.7	5.3	5.9
Screw stroke	mm		620				
	inches		24.4				
Injection capacity	cm ³	7010	8870	10960			
	in ³	428	541	669			
Shotweight (max.)	g (HDPE)	5050	6390	7890			
	oz (HDPE)	178	225	278			
	g (PS)	6450	8160	10080			
	oz (PS)	227	288	356			
Screw torque @ speed	Nm @ min ⁻¹		14000 @ 100			14000 @ 110	
	lb _r -ft @ rpm		10325 @ 100			10325 @ 110	
L/D ratio (3-zone screw)			20				
Recovery rate (3-zone screw) ^b	g/sec	102	138	185	112	152	204
	oz/sec	3.6	4.9	6.5	4	5.4	7.2
L/D ratio (barrier screw)			22				
Recovery rate (barrier screw) ^b	g/sec	159	214	279	175	235	307
	oz/sec	5.6	7.6	9.8	6.2	8.4	10.8
Injection rate ^c	cm ³ /sec	985	1245	1540	1235	1560	1930
	in ³ /sec	60	76	94	75	95	118
Injection rate (at max. pressure) ^c	cm ³ /sec	815	1030	1275	1030	1300	1600
	in ³ /sec	50	63	78	63	79	98
Injection pressure (regenerative)	bar	2080	1640	1330			
	psi	30160	23780	19285			
Injection pressure (max.)	bar	2300	1970	1600			
	psi	33350	28710	23200			
Nozzle contact pressure	kN		210				
	US tons		23.6				
Rated drive power	kW		165			225	
	hp		220			300	
Heating wattage	kW (L/D=20)	89	99	113			
	kW (L/D=22)	98	109	125			
Total power ^d	kW	262	272	286	322	332	346
Current requirement	A @ 400V	445	459	480	556	570	591
	A @ 460V	381	395	412	465	478	495
Hopper capacity	liters		100				
	lbs/kg		110/50				
Water consumption oil cooler 25°C / 77°F	m ³ /h		5.7				
	US gal/min		25				
Oil reservoir capacity	liters		3000				
	US gal		793				

- 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