



* at execution with increased drive power 9500 / 374"

Machine designation	Weight		L4 *		L5		H		H4		
	to	US tons	mm	in	mm	in	mm	in	mm	in	
DUO 45050 / 2500, 2700											
DUO 45050 / 2800 US, 3000 US	41	45	8220	324	1300	51	3300	130	2530	100	
DUO 45050 / 3000, 3200											
DUO 45050 / 3300 US, 3500 US	41	45	8220	324	1300	51	3300	130	2530	100	
DUO 45050 / 3600, 4000											
DUO 45050 / 4000 US, 4400 US	42	46.2	8220	324	1500	59	3550	140	2780	109	
DUO 45050 / 5000, 5500											
DUO 45050 / 5500 US, 6000 US	44	48.4	8030	316	1750	69	4100	161	3330	131	

a. at execution with increased drive power 4 to / 4.4 US tons overweight

Speed-controlled electric screw drive (Option)		Normal	Increased rpm	Increased torque
		Power	kW hp	206 275
RPM	min ⁻¹	60	85	50
Torque	Nm @ 60% ED lb _r -ft @ 60% Duty	40000 29500	40000 29500	49000 36100
Cooling water consumption	m ³ /h US gal/min		1.7 7.4	

Engel Machine Designation		Standard 45050/...			Increased drive power 45050/...		
		46000	46000	46000	46000	46000	46000
International size designation ^a							
Screw diameter	mm	180	190	200	180	190	200
	inches	7.1	7.5	7.9	7.1	7.5	7.9
Screw stroke	mm		900				
	inches		35.4				
Injection capacity	cm ³	22900	25520	28270			
	in ³	1397	1557	1725			
Shotweight (max.)	g (HDPE)	16490	18370	20360			
	oz (HDPE)	582	648	718			
	g (PS)	21070	23480	26010			
	oz (PS)	743	828	917			
Screw torque @ speed	Nm @ min ⁻¹			35000 @ 74			35000 @ 90
	lb-ft @ rpm			25900 @ 74			25900 @ 90
L/D ratio (3-zone screw)			22				
Recovery rate (3-zone screw) ^b	g/sec	224	260	296	272	315	361
	oz/sec	7.9	9.2	10.4	9.6	11.1	12.7
L/D ratio (barrier screw)			22				
Recovery rate (barrier screw) ^b	g/sec	326	374	425	397	454	517
	oz/sec	11.5	13.2	15	14	16	18.2
Injection rate ^c	cm ³ /sec	2170	2420	2680	2630	2932	3248
	in ³ /sec	132	148	164	160	179	198
Injection rate (at max. pressure) ^c	cm ³ /sec	1695	1890	2090	2049	2285	2527
	in ³ /sec	103	115	128	125	139	154
Injection pressure (regenerative)	bar	1570	1410	1270			
	psi	22800	20500	18400			
Injection pressure (max.)	bar	2010	1800	1630			
	psi	29145	26100	23600			
Nozzle contact pressure	kN		210				
	US tons		24				
Rated drive power	kW		330			400	
	hp		443			536	
Heating wattage	kW (L/D=22)	195	206	213			
Total power ^d	kW	534	545	552	600	615	620
Current requirement	A @ 400V	887	903	913	1020	1030	1040
	A @ 460V	775	790	798	890	905	915
Hopper capacity	liters		100				
	lbs/kg		110/50				
Water consumption oil cooler 25°C / 77°F	m ³ /h		14.1				
	US gal/min		62				
Oil reservoir capacity	liters		4000			5500	
	US gal		1060			1450	

- 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