



Machine designation	Weight		L5		H		H4	
	Injection unit		mm	in	mm	in	mm	in
DUO 23050 / 1300, 1500								
DUO 23050 / 1400 US, 1650 US	29	32	950	38	2750	108	1960	72
DUO 23050 / 1700								
DUO 23050 / 1900 US	29	32	950	38	2880	113	2090	82
DUO 23050 / 2000, 2300								
DUO 23050 / 2200 US, 2500 US	29	32	1100	43	3050	120	2260	89
DUO 23050 / 2500, 2700								
DUO 23050 / 2800 US, 3000 US	29	32	1300	51	3300	130	2510	99
DUO 23050 / 3000, 3200								
DUO 23050 / 3300 US, 3500 US	29	32	1300	51	3300	130	2510	99
DUO 23050 / 3600, 4000								
DUO 23050 / 4000US, 4400 US	31	34	1500	59	3550	140	2760	109
DUO 23050 / 5000, 5500								
DUO 23050 / 5500 US, 6000 US	32	35	1750	69	4100	161	3310	130

Speed-controlled electric screw drive (Option)		Normal	Increased rpm	Increased torque
		Power	kW	136
	hp	182	215	182
RPM	min <sup>-1</sup>	85	100	70
Torque	Nm @ 60% ED	18600	18600	23000
	lb <sub>r</sub> -ft @ 60% Duty	13700	13700	17000
Cooling water consumption	m <sup>3</sup> /h	1.5	1.6	1.5
	US gal/min	6.6	7.1	6.6

Engel Machine Designation		Standard 23050/...			Increased drive power- capacity 23050/...		
International size designation <sup>a</sup>		23200	23200	23200	23200	23200	23200
Screw diameter	mm	135	150	160	135	150	160
	inches	5.3	5.9	6.3	5.3	5.9	6.3
Screw stroke	mm		720				
	inches		28.3				
Injection capacity	cm <sup>3</sup>	10310	12720	14480			
	in <sup>3</sup>	629	777	883			
Shotweight (max.)	g (HDPE)	7420	9160	10420			
	oz (HDPE)	262	323	368			
	g (PS)	9490	11700	13320			
	oz (PS)	335	413	470			
Screw torque @ speed	Nm @ min <sup>-1</sup>		18600 @ 85		18600 @ 100		
	lb <sub>r</sub> -ft @ rpm		13730 @ 85		13730 @ 100		
L/D ratio (3-zone screw)		20	20	22			
Recovery rate (3-zone screw) <sup>b</sup>	g/sec	117	157	190	138	185	223
	oz/sec	4.1	5.5	6.7	4.9	6.5	7.9
L/D ratio (barrier screw)			22				
Recovery rate (barrier screw) <sup>b</sup>	g/sec	182	237	279	214	279	328
	oz/sec	6.4	8.4	9.8	7.5	9.8	11.6
Injection rate <sup>c</sup>	cm <sup>3</sup> /sec	1445	1785	2030	1815	2230	2535
	in <sup>3</sup> /sec	88	109	124	111	136	155
Injection rate (at max. pressure) <sup>c</sup>	cm <sup>3</sup> /sec	1120	1380	1570	1405	1725	1965
	in <sup>3</sup> /sec	68	84	96	86	105	120
Injection pressure (regenerative)	bar	1740	1410	1240			
	psi	25200	20400	18000			
Injection pressure (max.)	bar	2250	1820	1600			
	psi	32600	26400	23200			
Nozzle contact pressure	kN		210				
	US tons		24				
Rated drive power	kW		225			270	
	hp		301			362	
Heating wattage	kW (L/D=20)	99	113				
	kW (L/D=22)	110	124	135			
Total power <sup>d</sup>	kW	332	346	368	377	391	413
Current requirement	A @ 400V	570	591	623	648	669	701
	A @ 460V	478	495	523	568	585	613
Hopper capacity	liters		100				
	lbs/kg		110/50				
Water consumption oil cooler 25°C / 77°F	m <sup>3</sup> /h		10.2				
	US gal/min		45				
Oil reservoir capacity	liters		3000				
	US gal		795				

- 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