



Machine designation

Weight Injection unit to US tons

DUO 130000 / 5000, 5500
DUO 130000 / 5500US, 6000US

110 121

Speed-controlled electric screw drive (Option)

Normal

Power	kW	295
	hp	396
RPM	min ⁻¹	43
Torque	Nm @ 60% ED	80200
	lb _r -ft @ 60% Duty	59100
Cooling water consumption	m ³ /h	1.8
	US gal/min	7.9

Engel Machine Designation

International size designation ^a		Standard 130000/...	
		130000	130000
Screw diameter	mm	245	260
	inches	9.6	10.2
Screw stroke	mm	1350	
	inches	53.1	
Injection capacity	cm ³	63640	71680
	in ³	3884	4374
Shotweight (max.)	g (HDPE)	45820	51610
	oz (HDPE)	1620	1820
	g (PS)	58550	65950
	oz (PS)	2070	2330
Screw torque @ speed	Nm @ min ⁻¹		80000 @ 42
	lb _r -ft @ rpm		59000 @ 42
L/D ratio (3-zone screw)			
Recovery rate (3-zone screw) ^b	g/sec		
	oz/sec		
L/D ratio (barrier screw)	L/D	25	
Recovery rate (barrier screw) ^b	g/sec	400	465
	oz/sec	14.1	16.4
Injection rate ^c	cm ³ /sec	3290	3710
	in ³ /sec	201	226
Injection rate (at max. pressure) ^c	cm ³ /sec	2790	3140
	in ³ /sec	170	192
Injection pressure (regenerative)	bar	1600	1400
	psi	23200	20300
Injection pressure (max.)	bar	2000	1800
	psi	29000	26100
Nozzle contact pressure	kN	210	
	US tons	24	
Rated drive power	kW	550	
	hp	738	
Heating wattage	kW (L/D=25)	364	386
Total power ^d	kW	920	950
Current requirement	A @ 400V	1520	1550
	A @ 460V	1330	1360
Hopper capacity	liters	120	
	lbs/kg	130/60	
Water consumption oil cooler 25°C / 77°F	m ³ /h	22.5	
	US gal/min	99	
Oil reservoir capacity	liters	6000	
	US gal	1585	

- 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