



Machine designation	Weight		L4		L5		H		H4	
	to	US tons	mm	in	mm	in	mm	in	mm	in
ES 4550 / 500, 600 HL										
ES 4550 / 550 TL US, 660 TL US	10	11	4430	174	700	28	2565	101	1875	74
CLASSIC 4550 / 550, 600										
CLASSIC 4550 / 610 US, 660 US	10	11	4530	178	600	24	2385	94	1695	67
CLASSIC 4550 / 650, 750										
CLASSIC 4550 / 720 US, 830 US	10	11	4530	178	600	24	2385	94	1695	67
CLASSIC 4550 / 800, 900										
CLASSIC 4550 / 880 US, 1000 US	10	11	4530	178	600	24	2385	94	1695	67
DUO 4550 / 650, 700										
DUO 4550 / 720 US, 770 US	10	11	4410	174	600	24	2385	94	1695	67
DUO 4550 / 800, 900										
DUO 4550 / 900 US, 1000 US	10	11	4330	170	700	28	2385	94	1695	67

Speed-controlled electric screw drive (Option)		Normal	Increased rpm	Increased torque
		Power	kW	75
	hp	100	130	100
RPM	min ⁻¹	140	180	110
Torque	Nm @ 60% ED	5700	5700	7200
	lb _r -ft @ 60% Duty	4200	4200	5300
Cooling water consumption	m ³ /h	1.4	1.5	1.4
	US gal/min	5.7	6.2	5.7

Engel Machine Designation

International size designation ^a		Standard 4550/...			Increased drive power-capacity 4550/...		
		4500	5400	5400	4500	5400	5400
Screw diameter	mm	80	90	105	80	90	105
	inches	3.15	3.54	4.13	3.15	3.54	4.13
Screw stroke	mm		390				
	inches		15.4				
Injection capacity	cm ³	1960	2480	3380			
	in ³	119.6	151.4	206.1			
Max. Schußgewicht	g (HDPE)	1410	1790	2430			
	oz (HDPE)	50	63	86			
	g (PS)	1800	2280	3110			
	oz (PS)	63.6	80.5	110			
Screw torque @ speed	Nm @ min ⁻¹		5700 @ 140		5700 @ 180		
	lb _r -ft @ rpm		4200 @ 140		4200 @ 180		
L/D ratio (3-zone screw)			22				
Recovery rate (3-zone screw) ^b	g/sec	50	70	100	62	88	127
	oz/sec	1.8	2.5	3.5	2.2	3.1	4.5
L/D Schneckenlänge Barriere			22				
Plastifizierleistung Barriere ^b	g/sec	80	108	159	103	139	204
	oz/sec	2.8	3.8	5.6	3.6	4.9	7.2
Injection rate ^c	cm ³ /sec	420	530	720	570	720	980
	in ³ /sec	25.6	32.3	43.9	34.8	43.9	59.8
Einspritzstrom ^c	cm ³ /sec	370	465	635	500	630	860
	in ³ /sec	22.6	28.4	38.8	30.5	38.4	52.5
Spez. Spritzdruck	bar	2300	1910	1400			
	psi	33400	27700	20300			
Spez. Spritzdruck erhöht	bar	2300	2180	1600			
	psi	33400	31600	23200			
Nozzle contact pressure	kN		150				
	US tons		16.9				
Rated drive power	kW		75		90		
	hp		100		120		
Heating wattage	kW (L/D=22)	53	62	73			
Total power ^d	kW	131	140	151	146	155	166
Current requirement	A @ 400V	220	230	250	250	260	280
	A @ 460V	187	198	212	217	228	242
Hopper capacity	liters		100				
	lbs/kg		110/50				
Water consumption oil cooler 25°C / 77°F	m ³ /h		8.3				
	US gal/min		37				
Oil reservoir capacity	liters		1000				
	US gal		265				

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