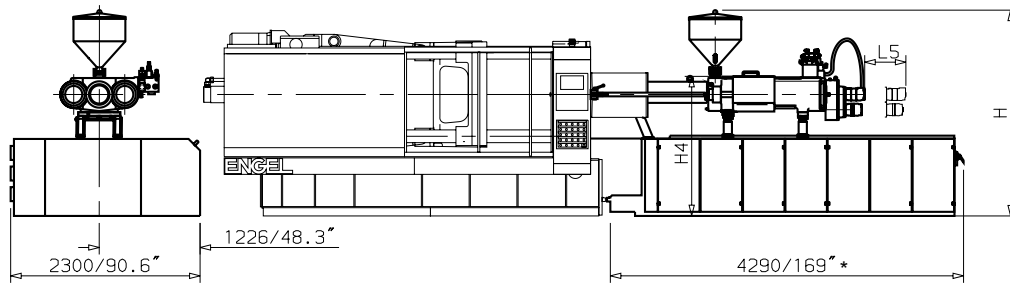


Machine designation

Machine designation	Weight total		L4		H		H4	
	to	US tons	mm	in	mm	in	mm	in
CLASSIC 2050 / 350, 420								
CLASSIC 2050 / 390US, 460US	20.5	22.6	4175	164	2565	101	1830	72
CLASSIC 2050 / 500								
CLASSIC 2050 / 550US	25.5	28	4175	164	2675	105	1940	76



* Also applies to increased drive power option

Machine designation

Machine designation	Weight Injection unit		L5		H		H4	
	to	US tons	mm	in	mm	in	mm	in
ES 2050 / 500, 600 HL								
ES 2050 / 550 TL US, 660 TL US	7.5	8.3	650	26	2680	106	1945	77
CLASSIC 2050 / 350 H TM								
CLASSIC 2050 / 390 H TM US	7.5	8.3	500	26	2505	99	1770	70

Speed-controlled electric screw drive (Option)

		Normal	Increased rpm	Increased torque
		Power	kW	55
	hp	74	74	74
RPM	min ⁻¹	183	205	160
Torque	Nm @ 60% ED	3100	3100	3600
	lb _r -ft @ 60% Duty	2300	2300	2700
Cooling water consumption	m ³ /h	0.8	0.9	0.8
	US gal/min	3.5	4.0	3.5

Engel Machine Designation		Standard 2050/...			Increased drive power-capacity 2050/...		
		2050	2050	2050	2050	2050	2050
International size designation^a							
Screw diameter	mm	60	70	80	60	70	80
	inches	2.36	2.75	3.15	2.36	2.75	3.15
Screw stroke	mm	300					
	inches	11.8					
Injection capacity	cm ³	850	1150	1510			
	in ³	51.7	70.5	92			
Shotweight (max.)	g (HDPE)	610	830	1090			
	oz (HDPE)	22	29	38			
	g (PS)	780	1060	1390			
	oz (PS)	27.5	37.4	49.0			
Screw torque @ speed	Nm	2100	2100	3110	2100	2100	3110
	@min ⁻¹	@183	@183	@183	@205	@205	@205
	lb _r -ft	1550	1550	2290	1550	1550	2290
	@rpm	@183	@183	@183	@205	@205	@205
L/D ratio (3-zone screw)		20					
Recovery rate (3-zone screw) ^b	g/sec	43	64	90	48	72	101
	oz/sec	1.5	2.3	3.2	1.7	2.5	3.6
L/D ratio (barrier screw)		24					
Recovery rate (barrier screw) ^c	g/sec	55	81	114	62	91	128
	oz/sec	1.9	2.9	4.0	2.2	3.2	4.5
Injection rate ^d	cm ³ /sec	323	440	575	383	522	682
	in ³ /sec	19.7	26.9	35.1	23.4	31.9	41.6
Injection rate (at max. pressure) ^d	cm ³ /sec	270	365	478	319	435	568
	in ³ /sec	16.5	22.3	29.2	19.5	26.5	34.7
Injection pressure (regenerative)	bar	2000	1480	1130			
	psi	29000	21500	16400			
Injection pressure (max.)	bar	2400	1780	1360			
	psi	34800	25800	19700			
Nozzle contact pressure	kN	110					
	US tons	12.4					
Rated drive power	kW	45 ^e				55	
	hp	60				75	
Heating wattage	kW (L/D=20)	25	29	34			
	kW (L/D=24)	30	35	41			
Total power ^f	kW	73	77	82	83	87	92
Current requirement	A @ 400V	126	132	139	141	147	154
	A @ 460V	108	119	120	124	129	136
Hopper capacity	liters	120					
	lbs/kg	130/60					
Water consumption oil cooler 25°C / 77°F	m ³ /h	2.6					
	US gal/min	11.4					
Oil reservoir capacity	liters	700/1000					
Frame one-piece / divided	US gal	185/265					

- Injection capacity [cm³] x Injection pressure max. [bar] / 1000
- Values for polystyrene (MVR 200/5=10cm³/10min) according to ETR 10100
- Data for HDPE (MVR 190/2,16=5cm³/10min) acc. ETR 10100
- Theoretical values
- only CLASSIC 350, 420 and 500 (incl. US construction), otherwise 55 kW drive power
- Hydraulic motors + filter pump + heat