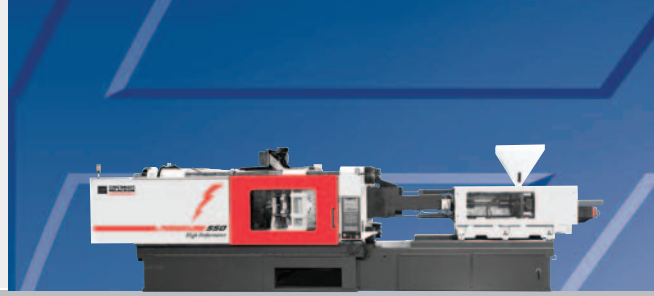




# POWERLINE



## 550

## SPECIFICATIONS

### 30/40/55 - 70mm

Injection Unit Specifications	English					Metric		
		A	B	C		A	B	C
Injection Capacity, Max. GPPS	oz	30	40	55	gm	850	1,134	1,559
Theoretical Disp	in <sup>3</sup>	55.8	74.5	99.2	cm <sup>3</sup>	914	1,221	1,626
Injection Performance, Note 1								
Max. pressure @ rate		35,000 psi @19 in <sup>3</sup> /sec	30,000 psi @18.5 in <sup>3</sup> /sec	22,500 psi @23.5 in <sup>3</sup> /sec		2,414 bar @311 cm <sup>3</sup> /sec	2,069 bar @303 cm <sup>3</sup> /sec	1,552 bar @385 cm <sup>3</sup> /sec
Max. rate @ pressure		28 in <sup>3</sup> /sec@ 26,000 psi	37.5 in <sup>3</sup> /sec @19,500 psi	49.5 in <sup>3</sup> /sec @14,800 psi		459 cm <sup>3</sup> /sec @1,793 bar	615 cm <sup>3</sup> /sec @1,345 bar	812 cm <sup>3</sup> /sec @1,020 bar
Max. Inj Speed, Note 1	in/sec	11.3	11.3	11.3	mm/sec	287	287	287
Max. Pack Press	psi	35,000	30,000	22,500	bar	2,414	2,069	1,552
Max. Pull Back Force	lbs	25,000	25,000	25,000	N	111,205	111,205	111,205
Plunger Stroke	in	22.64	22.64	22.64	mm	575	575	575
Plunger Diameter	in	1.77	2.04	2.36	mm	45	52	60
Extruder L/D Ratio - 70mm								
Std						30:1		
Extruder Performance - 70mm								
Alpha 300/2000(optional)	rpm					265		
Barrel Heat Control								
No. of Pyrometers (barrel/nozzle)			30:1				30:1	
Total Heat Capacity	kw		46.4		kw		46.4	
Sled Pull-in Force	ton		4.1		tonf		3.7	
<b>Clamp Specifications</b>								
Tonnage	ton		550		tonf		500	
Maximum Daylight	in		67.72		mm		1,720	
Max./Min. Mold Height	in		33.07/9.84		mm		840/250	
Max. Mold Wt.	lbs		16,300		kg		7,400	
Max. Clamp Stroke	in		34.64		mm		880	
Clamp Speed								
Euromap Dry Cycle Time	sec		< 3.0		sec		< 3.0	
Platen Size	in		50.8 x 50.8		mm		1,290 x 1,290	
Tie Bar Spacing	in		36.22 x 36.22		mm		920 x 920	
Tie Rod Diameter	in		6.3		mm		160	
Ejector Stroke	in		7.87		mm		200	
Max. Ejector Force	ton		10.7		tonf		9.7	
Max. Eject Speed	in/sec		10.4		mm/sec		265	
<b>Machine Specifications</b>								
Length, Note 2	in		365.3		mm		9,278	
Width	in		91.4		mm		2,320	
Height	in		101.6		mm		2,580	
Centerline Height	in		60.9		mm		1,548	
Shipping Weight	lbs		61,000		kg		27,700	
<b>Electric Specifications</b>								
Input Power Source								
230 VAC +/- 10% 3Ph 60Hz					Std.			
Machine		kVA				67 (25:1 L/D) or 77 (30:1 L/D)		
Optional Core		kVA				11 (10 Hp) or 16 (15 Hp)		
Power Supply		Max. Total Capacity				83 (25:1 L/D) or 93 (30:1 L/D)		
ansformer Size		kVA				93		
Capacity								
<b>Machine Requirements</b>								
Water (Feedthroat)					6 gpm @ 50 psi			
Air					80 psi @ 20 cfm			
Notes: 1) Limitations may apply in certain conditions, 2) Working position with sled fwd								

# 550

# SPECIFICATIONS

## 72/96/130 - 70mm

Injection Unit Specifications	English			Metric		
	A	B	C	A	B	C
Injection Capacity, Max. GPPS	72	96	130	2,041	2,722	3,686
Theoretical Disp	134.1	178.6	243.1	2,198	2,926	3,983
Injection Performance, Note 1						
Max. pressure @ rate	30,000 psi @18.4 in <sup>3</sup> /sec	23,200 psi @24.5 in <sup>3</sup> /sec	17,000 psi @36.9 in <sup>3</sup> /sec	2,069 bar @302 cm <sup>3</sup> /sec	1,600 bar @401 cm <sup>3</sup> /sec	1,172 bar @605 cm <sup>3</sup> /sec
Max. rate @ pressure	48.5 in <sup>3</sup> /sec @15,200 psi	64.6 in <sup>3</sup> /sec @11,440 psi	87.9 in <sup>3</sup> /sec @8,400 psi	795 cm <sup>3</sup> /sec @1048 bar	1,059 cm <sup>3</sup> /sec @789 bar	1,440 cm <sup>3</sup> /sec @580 bar
Max Inj Speed, Note 1	14.75	14.75	14.75	375	375	375
Max Pack Press	30,000	23,200	17,000	2,069	1,600	1,172
Max Pull Back Force	25,000	25,000	25,000	111,205	111,205	111,205
Plunger Stroke	40.75	40.75	40.75	1,035	1,035	1,035
Plunger Diameter	2.04	2.36	2.76	52	60	70
Extruder L/D Ratio-70 mm			30:1			
Extruder Performance-70 mm			265			
Barrel Heat Control						
No. of Pyrometers (barrel/nozzle)			10/1			
Total Heat Capacity			65.25			
Sled Pull-in Force		4.1			3.7	

Clamp Specifications				
Tonnage	ton	550	tonf	500
Maximum Daylight	in	67.72	mm	1,720
Max./Min. Mold Height	in	33.07/9.84	mm	840/250
Max. Mold Wt.	lbs	16,300	kg	7,400
Max. Clamp Stroke	in	34.64	mm	880
Clamp Speed				
Euromap Dry Cycle Time	sec	< 3.0	sec	< 3.0
Platen Size	in	50.8 x 50.8	mm	1,290 x 1,290
Tie Bar Spacing	in	36.22 x 36.22	mm	920 x 920
Tie Rod Diameter	in	6.3	mm	160
Ejector Stroke	in	7.87	mm	200
Max. Ejector Force	ton	10.7	tonf	9.7
Max. Eject Speed	in/sec	10.4	mm/sec	265

Machine Specifications				
Length, Note 2	in	418.7	mm	10,636
Width	in	91.4	mm	2,320
Height	in	101.6	mm	2,580
Centerline Height	in	60.9	mm	1,548
Shipping Weight	lbs	63,820	kg	28,948

Electric Specifications				
Input Power Source				
230 VAC +/- 10% 3Ph 60Hz			Std.	
Power	Machine	kVA		77
Supply	Optional Core	kVA		11 (10 Hp) or 16 (15 Hp)
Capacity	Max. Total Capacity	kVA		93
Machine Transformer Size		kVA		93

Machine Requirements				
Water (Feedthroat)			6 gpm @ 50 psi	
Air			80 psi @ 20 cfm	

Notes: 1) Limitations may apply in certain conditions, 2) Working position with sled fwd



# POWERLINE

## 550

# SPECIFICATIONS



### 45/56/75 - 120mm

Injection Unit Specifications	English					Metric		
		A	B	C		A	B	C
Injection Capacity, Max. GPPS	oz	45	56	75	gm	1,276	1,588	2,128
Theoretical Disp	in <sup>3</sup>	83.4	99.2	135.0	cm <sup>3</sup>	1,366	1,626	2,213
Injection Performance, Note 2								
Max. pressure @ rate		27,500 psi @37.75 in <sup>3</sup> /sec	23,200 psi @44.5 in <sup>3</sup> /sec	17,000 psi @61.21 in <sup>3</sup> /sec		1,896 bar @619 cm <sup>3</sup> /sec	1,600 bar @729 cm <sup>3</sup> /sec	1172 bar @1,003 cm <sup>3</sup> /sec
Max. rate @ pressure		75.5 in <sup>3</sup> /sec @20,210 psi	89.5 in <sup>3</sup> /sec @16,950 psi	121.8 in <sup>3</sup> /sec 12,531 psi		1,237 cm <sup>3</sup> /sec @1,394 bar	1,467 cm <sup>3</sup> /sec @1,169 bar	1,995 cm <sup>3</sup> /sec @864 bar
Max. Inj Speed, Note 2	in/sec	20.5	20.5	20.5	mm/sec	521	521	521
Max. Pack Press	psi	27,500	23,200	17,000	bar	1,896	1,600	1,172
Max. Pull Back Force	lbs	22,000	22,000	22,000	N	97,860	97,860	97,860
Plunger Stroke	in	22.64	22.64	22.64	mm	575	575	575
Plunger Diameter	in	2.165	2.36	2.756	mm	55	60	70
Extruder L/D Ratio-120 mm		25:1	25:1	25:1		25:1	25:1	25:1
Extruder Performance-120 mm								
Alpha 1000/2000	rpm				130			
Barrel Heat Control								
No. of Pyrometers (barrel/nozzle)					10/1			
Total Heat Capacity	kw				121.6			
Sled Pull-in Force	ton	4.1			tonf	3.7		

Clamp Specifications					
Tonnage	ton	550		tonf	500
Maximum Daylight	in	67.72		mm	1,720
Max./Min. Mold Height	in	33.07/9.84		mm	840/250
Max. Mold Wt.	lbs	16,300		kg	7,400
Max. Clamp Stroke	in	34.64		mm	880
Clamp Speed					
Euromap Dry Cycle Time	sec	< 3.0		sec	< 3.0
Platen Size	in	50.8 x 50.8		mm	1,290 x 1,290
Tie Bar Spacing	in	36.22 x 36.22		mm	920 x 920
Tie Rod Diameter	in	6.3		mm	160
Ejector Stroke	in	7.87		mm	200
Max. Ejector Force	ton	10.7		tonf	9.7
Max. Eject Speed	in/sec	10.4		mm/sec	265

Machine Specifications					
Length, Note 3	in	439.1		mm	11,152
Width	in	103.9		mm	2,638
Height	in	101.6		mm	2,580
Centerline Height	in	60.9		mm	1,548
Shipping Weight	lbs	75,000		kg	34,019

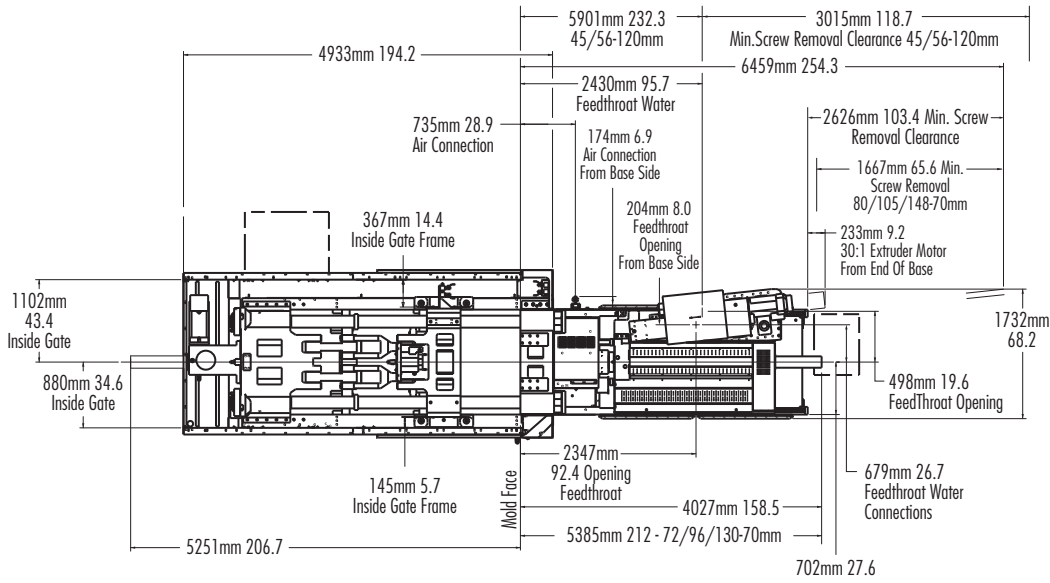
Electric Specifications				
Input Power Source				
460 VAC +/- 10% 3Ph 60Hz				Std.
Power	Machine	kVA	175	
Supply Capacity	Optional Core	kVA	11 (10 Hp) or 16 (15 Hp)	
	Max. Total Capacity	kVA	207	

Machine Requirements	
Water (Feedthroat)	6 gpm @ 50 psi
Air	80 psi @ 20 cfm

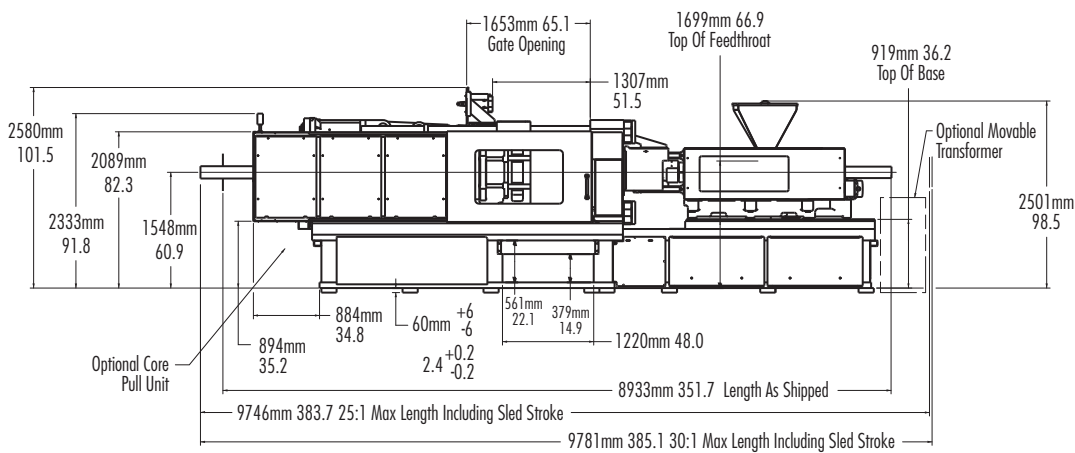
Notes: 1) 54 & 66 available upon special request with limitations 2) Limitations may apply in certain conditions, 3) Working position with sled fwd

# 550

# TEMPLATES



## PLAN



NT550-30/40/55-70mm Shown

## ELEVATION

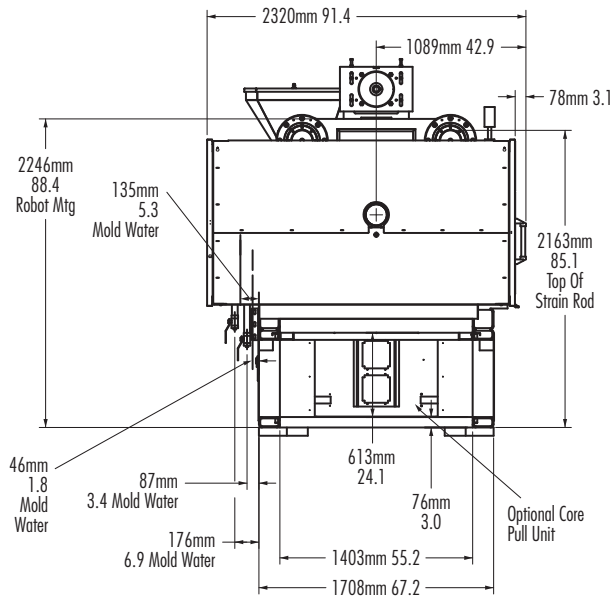
Machine Length Sled Forward		
30/40/55-70mm	72/96/130-70mm	45/56-120mm
365.2	418.7	439.1
9,278mm	10,636mm	11,152mm



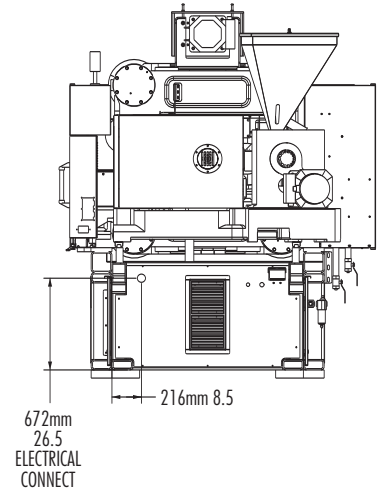
# POWERLINE

## 550

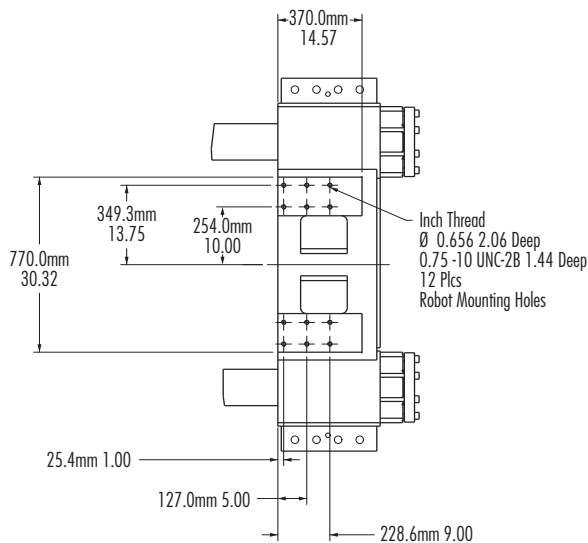
# TEMPLATES



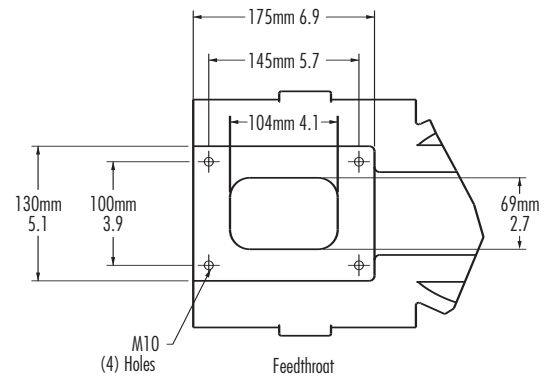
### CLAMP END



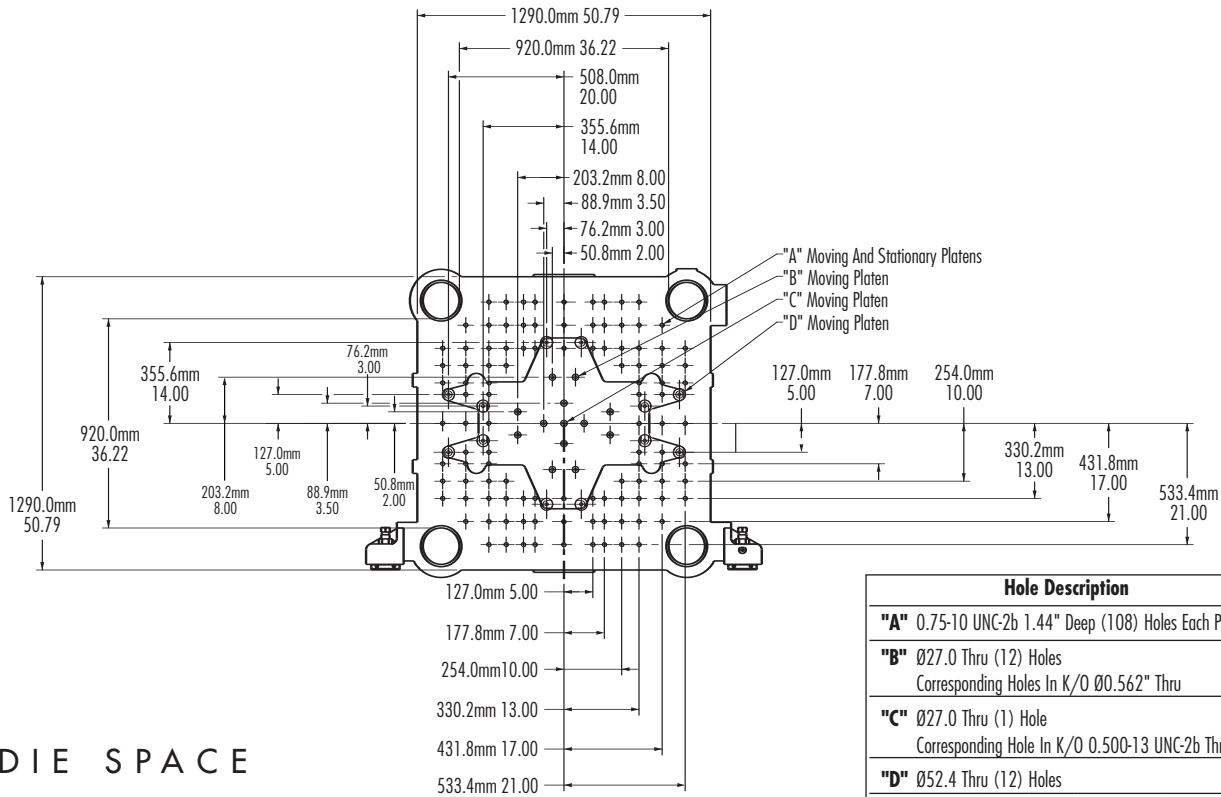
### INJECTION END



### ROBOT MOUNTING PATTERN

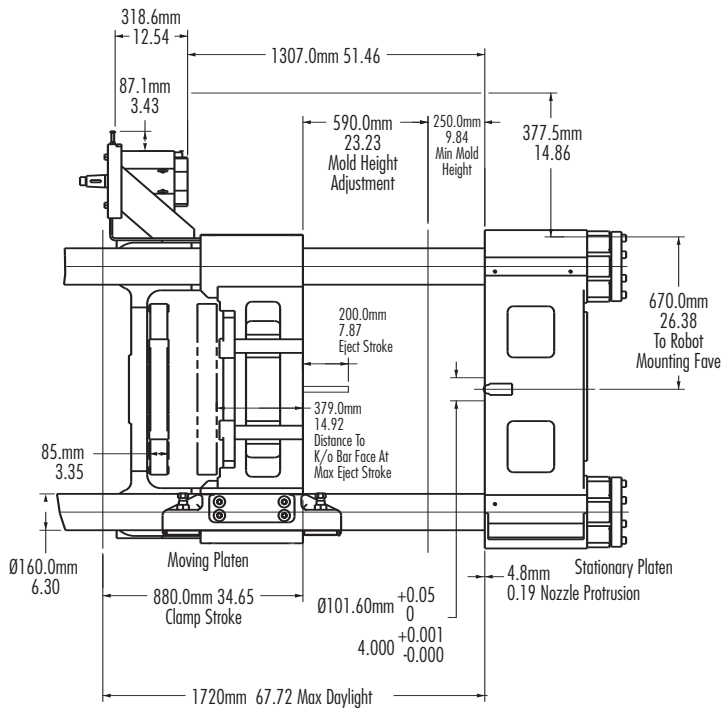


### FEED THROAT 70MM EXTRUDER



Hole Description	
"A"	0.75-10 UNC-2b 1.44" Deep (108) Holes Each Platen
"B"	Ø27.0 Thru (12) Holes Corresponding Holes In K/O Ø0.562" Thru
"C"	Ø27.0 Thru (1) Hole Corresponding Hole In K/O 0.500-13 UNC-2b Thru
"D"	Ø52.4 Thru (12) Holes Corresponding Holes In K/O Ø0.562" Thru

DIE SPACE



PLATEN