

Our offices and agents



CPMIA  
Energy Saving Award

WELLTEC

Servo-driven Energy Saving Injection Moulding Machine(90-2200T)



WELLTEC

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版本号: JSeIIS-1901W



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**GREENLINE**

Green up your life

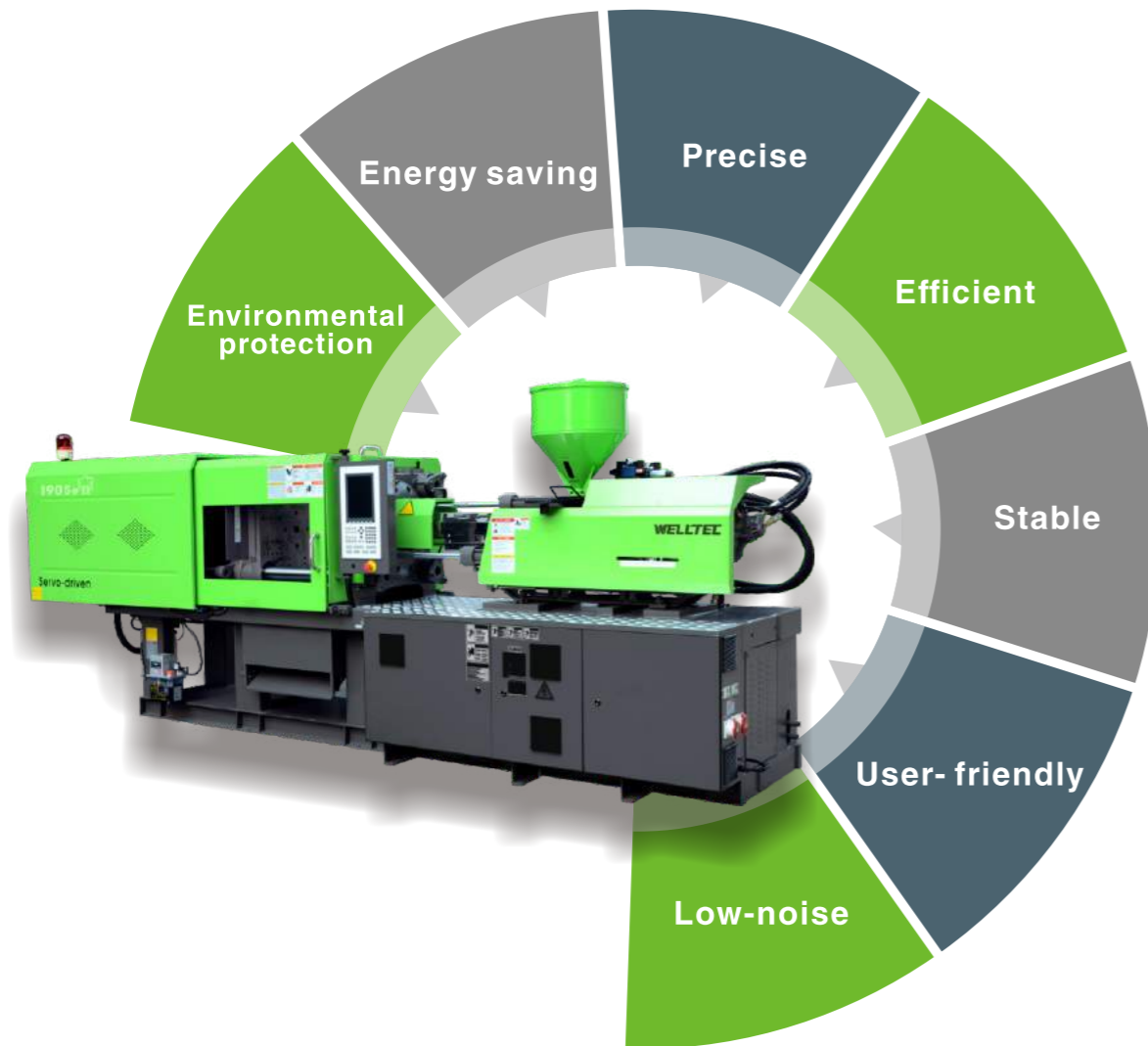


**Higher energy saving  
More eco- friendly  
Enhance your green competitiveness**





KEY FEATURES



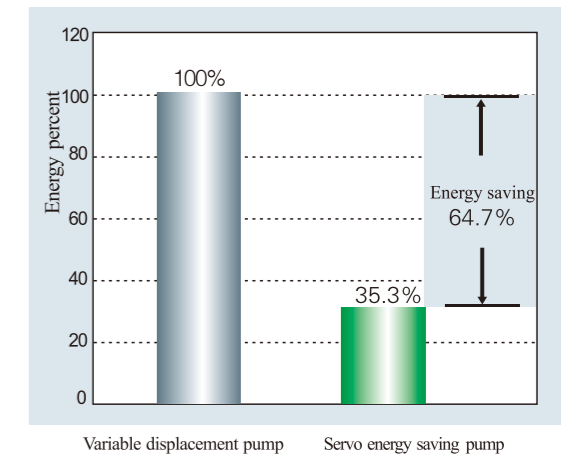
Outstanding features

- 30% higher energy saving than using traditional variable pump
- Suitable for moulding of general purposes and engineering plastics such as Polycarbonate(PC), PMMA and Fibreglass Reinforced Plastics
- Stable and smooth movement supported by AC servo motor
- Effective reduction of energy consumption due to reduced oil and cooling water attained by hydraulic system
- High performance European B&R control system

Excellent energy-saving effect

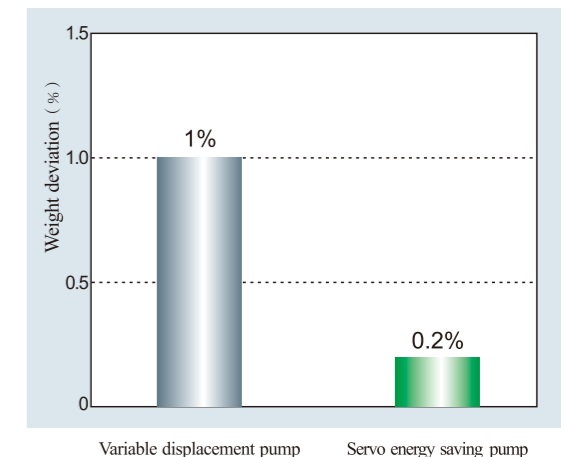
With over 35 years experience in manufacturing of plastics machinery, we have developed “Sell” Greenline injection moulding machine that adopts an advanced servo motor gear pump. Energy saving up to 75% when compared to the traditional injection moulding machines. The saving effect is particularly impressive during cooling and holding pressure.

	Case	
Product	18 L Bucket	
Model	660T Variable pump IMM	660T Servo driven pump IMM
Material	PE	PE
Cycle time	38.5s	37.6s
Inspection time (hour)	24	24
Daily Consumption	2040	720
Sample	100	100
Weight deviation	1%	0.3%



High repeatability on moulding

High repeatability of products and moulding quality resulting from the adoption of servo control system that facilitates accurate injection pressure and real time monitoring of flow rate through a closed-loop control.

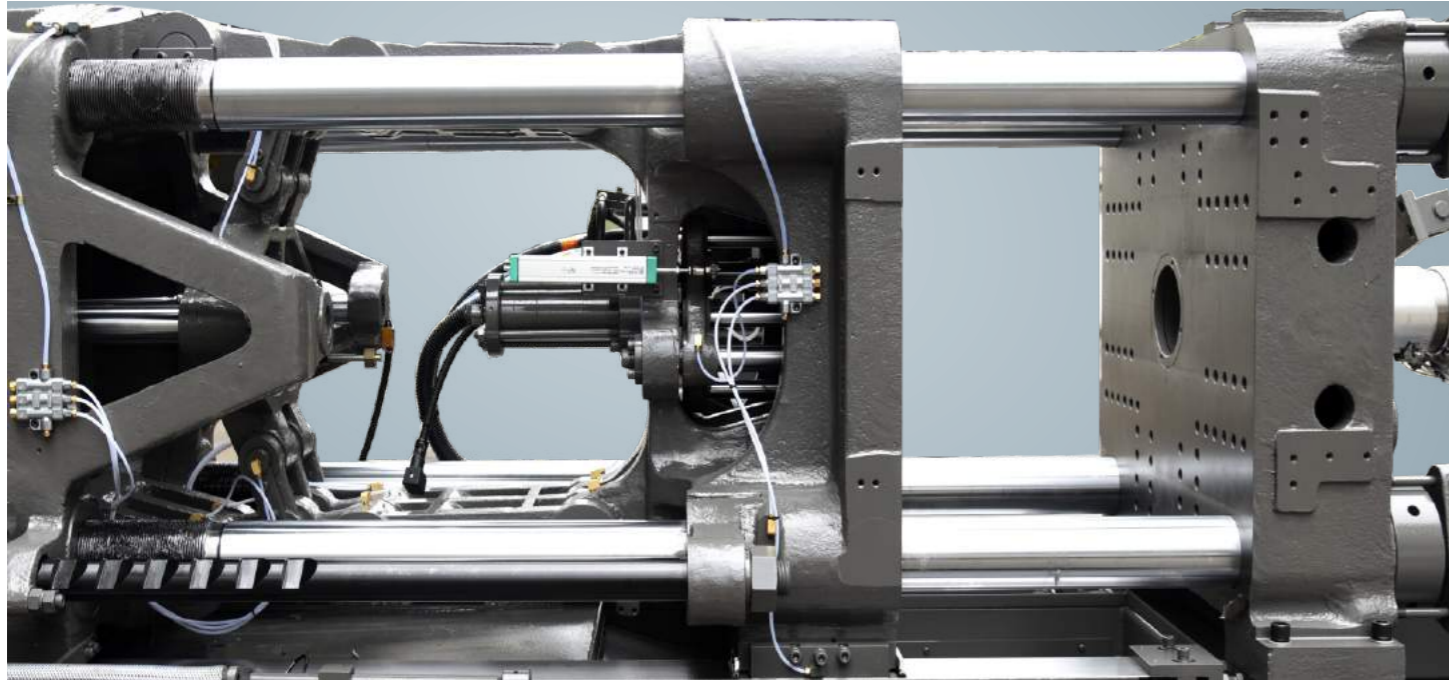


Stable movement

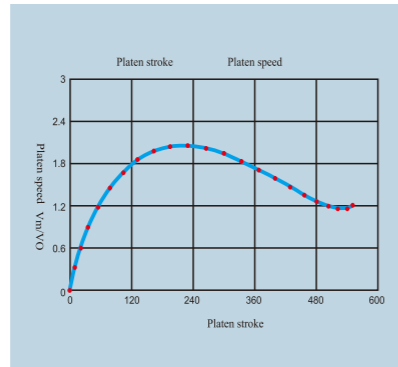
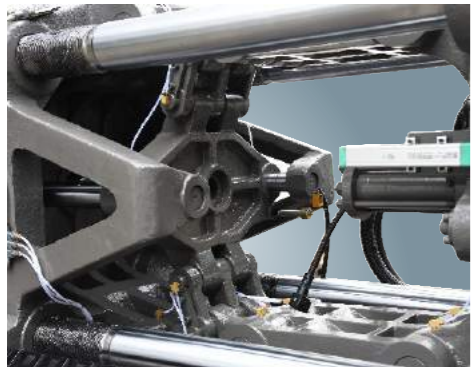
- High stability of movement is attained through a closed-loop control of pressure and flow rate.
- The result is particularly apparent in the operation of low pressure and flow rate.
- Users can adjust the pressure and flow rate to avoid excessive heat. Oil temperature is therefore better controlled.



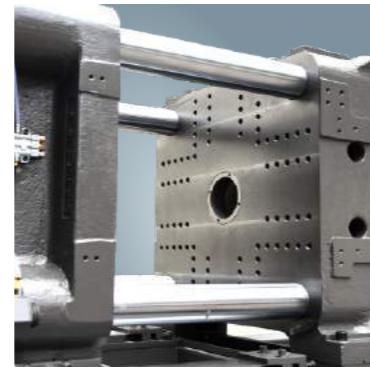
Extra durability achieved through high-strength clamping structure



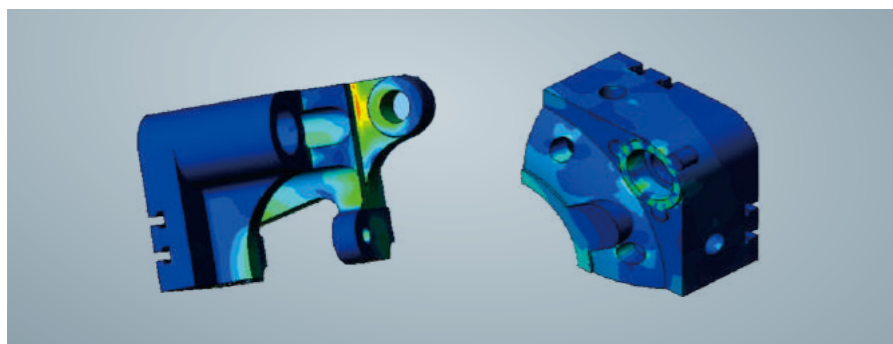
Accurate pause, smooth and speedy movement supported by strengthened toggle



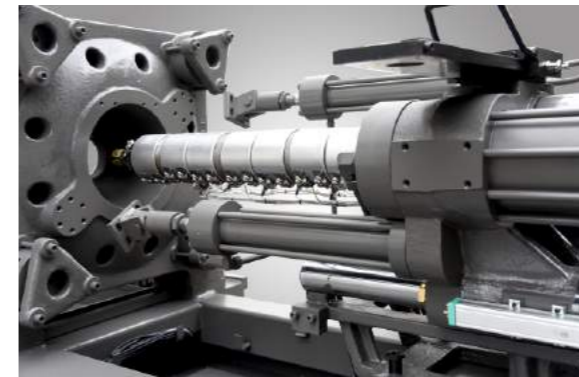
Optimized mould platen design ensures high rigidity and precise products



Reduced deformation and stress attained by optimized mould platen. Durability and products precision are enhanced



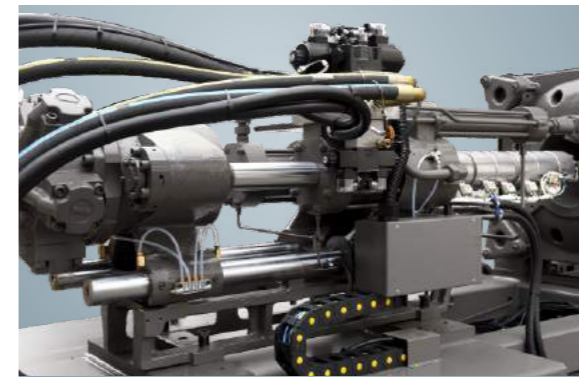
Newly optimized injection unit



Injection transducer ensures high precision control



Easier maintenance supported by modular application



Reduction of noise and strengthened machine life attained through high-performance servo pump



Proportional back pressure standard configuration strengthens the control and regulation of the whole machine







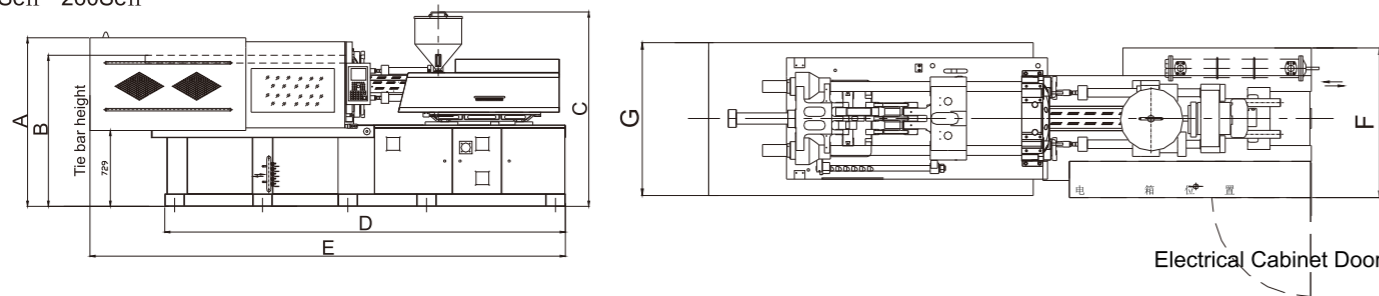
Machine Specifications

ITEM	UNIT	90Se II			130Se II			160Se II			190Se II			260Se II			320Se II			380Se II			450Se II			500Se II			560Se II					660Se II			
		30	35	40	35	40	45	40	45	50	45	50	55	50	55	60	55	60	65	60	70	80	70	80	90	70	80	94	70	80	94	80	90	105	80	90	105
Screw diameter	mm	30	35	40	35	40	45	40	45	50	45	50	55	50	55	60	55	60	65	60	70	80	70	80	90	70	80	94	70	80	94	80	90	105	80	90	105
Theoretical shot volume	cm <sup>3</sup>	116	158	206	180	235	297	261	331	408	369	456	551	499	603	718	660	786	922	927	1262	1649	1424	1860	2354	1486	1940	2679	1486	1940	2679	2212	2799	3810	2212	2799	3810
Shot weight (PS)	g	104	142	185	162	211	268	235	298	368	332	410	496	449	543	646	594	707	830	835	1136	1484	1282	1674	2118	1337	1746	2411	1337	1746	2411	1991	2519	3429	1991	2519	3429
Shot weight (PS)	oz	3.7	5.0	6.6	5.7	7.5	9.5	8.3	10.5	13.0	11.7	14.5	17.5	15.9	19.2	22.8	21.0	25.0	29.3	29.5	40.1	52.4	45.3	59.1	74.9	47.2	61.7	85.2	47.2	61.7	85.2	70.3	89	121.2	70.3	89	121.2
Length/Diameter ratio	L/D	23.8	21.0	18.1	23.7	20.5	18.1	22.5	20.0	18.0	22.5	20.2	18.4	22.2	20.0	18.3	21.9	20.0	18.4	23.5	20.1	17.6	24.1	21.0	18.6	24.0	21.0	18.0	24.0	21.0	18.0	23.6	21.0	18	23.6	21.0	18.0
Injection pressure	MPa	247	181	139	236	181	143	230	181	147	223	181	149	218	180	151	212	179	152	246	180	138	221	169	134	215	165	119	215	165	119	209	165	121	209	165	121
Injection rate	cm <sup>3</sup> /sec	70	95	124	86	113	143	111	141	174	143	176	213	224	271	323	235	279	328	254	346	451	352	460	582	363	474	654	363	474	654	521	660	898	521	660	898
Injection stroke	mm	164			187			208			232			254			278			328			370			386			386			440			440		
Max. screw speed	rpm	200			205			220			185			221			179			157			170			170			170			161			161		
Plasticizing capacity (PS)	g/s	9.3	10.3	15.2	13.1	17.8	21.9	20.4	26.4	29.5	22.2	27.7	31.8	33.0	46.4	55.5	37.7	51.1	55.7	44.8	65.2	90.6	74.7	98.1	111.1	75.7	98.1	130.9	75.7	98.1	130.9	97.7	118.5	179.3	97.7	118.5	179.3
Injection unit force	Ton	3.6			5.7			5.7			5.7			8.9			8.9			11.7			11.7			11.7			11.7			19.8			19.8		
Carriage stroke	mm	255			300			320			360			400			450			435			480			500			550			600			600		
Clamping force	Ton	90			130			160			190			260			320			380			450			500			560			560			660		
Max. daylight	mm	680			820			906			1000			1130			1275			1450			1560			1640			1730			1730			1830		
Clamping stroke	mm	320			410			446			490			550			615			710			740			820			880			880			910		
Distance between tie bars	mm	360×360			410×410			460×460			510×510			580×580			660×660			740×740			780×780			825×825			860×840			860×840			920×920		
Min mould dimension	mm	250×250			280×280			320×320			350×350			400×400			460×460			510×510			540×540			570×570			600×590			600×590			645×645		
Mould thickness range	mm	150~360			150~410			150~460			175~510			200~580			250~660			250~740			300~820			300~820			350~850			350~850			350~920		
Ejector force	Ton	4.0			4.0			4.8			4.8			6.5			6.5			10.8			13.4			13.4			13.4			16.1			16.1		
Ejector stroke	mm	85			100			130			140			160			180			200			250			250			250			240			290		
No. of ejector pins	unit	5			5			5			5			9			13			13			13			13			17			17			21		
Max. motor power	kW	11.8			15.7			16			23.0			32.0			37.7			46.1			56.5			56.5			56.5			79.5			79.5		
System pressure	MPa	17			17			17			17			17			17			17			17			17			17			17			17		
Hydraulic pump capacity	L/min	61			72			90			113			172			176			220			275			275			275			385			385		
No. of heating zone	unit	3+1			3+1			4+1			4+1			5+1			5+1			5+1			5+1			5+1			5+1			5+1			5+1		
Heater power	kW	7.38			7.57			10.72			13.22			15.42			16.42			21.59			24.64			31.00			31.00			32			32		
Total power	kW	20.18			24.27			27.72			37.22			48.42			55.12			68.69			82.14			88.5			88.5			112.5			112.5		
Total current	A	27.6			33.2			37.9			50.9			66.2			75.4			93.9			112.3			121.0			121.0			136.7			136.7		
Machine net weight	Ton	3.13			4.15			5.29			6.53			8.2			10.8			14.4			17.5			19.5			22			23			26		
Oil filling capacity	L	140			160			290			310			430			520			570			620			740			740			1000			1000		

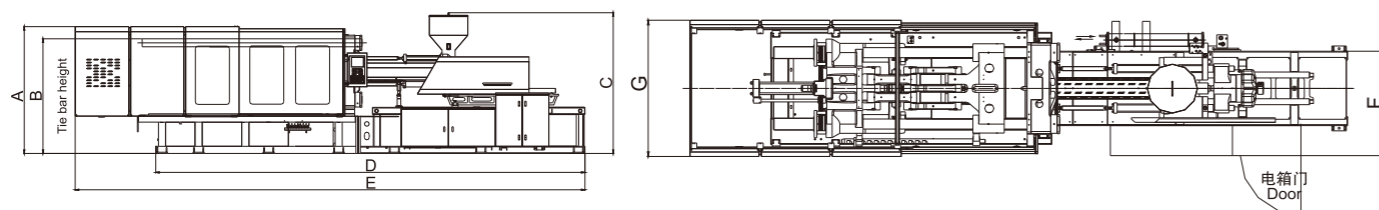
■ We are always working on improvement and reserve the right to change design and specifications without prior notice

Machine Dimensions

90SeII ~260SeII



320SeII ~660SeII



Model:	A	B	C	D	E	F	G
90SeII	1574	1410	1922	3590	4120	1055	1068
130SeII	1670	1502	1918	3852	4571	1135	1159
160SeII	1773	1597	2021	4240	4997	1305	1204
190SeII	1850	1667	2068	4496	5303	1355	1280
260SeII	1915	1722	2069	4762	5671	1525	1378
320SeII	2052	1867	2203	5451	6450	1432	1495
380SeII	2095	1885	2191	6263	7457	1429	1786
450SeII	2159	1890	2196	6998	8211	1436	1906
500SeII	2200	1988	2430	7073	8463	1405	1830
560SeII	2282	2035	2510	7510	8820	1415	1790
660SeII	2341	2125	2487	7729	9103	2194	1942

Remark: C-hopper height for reference only



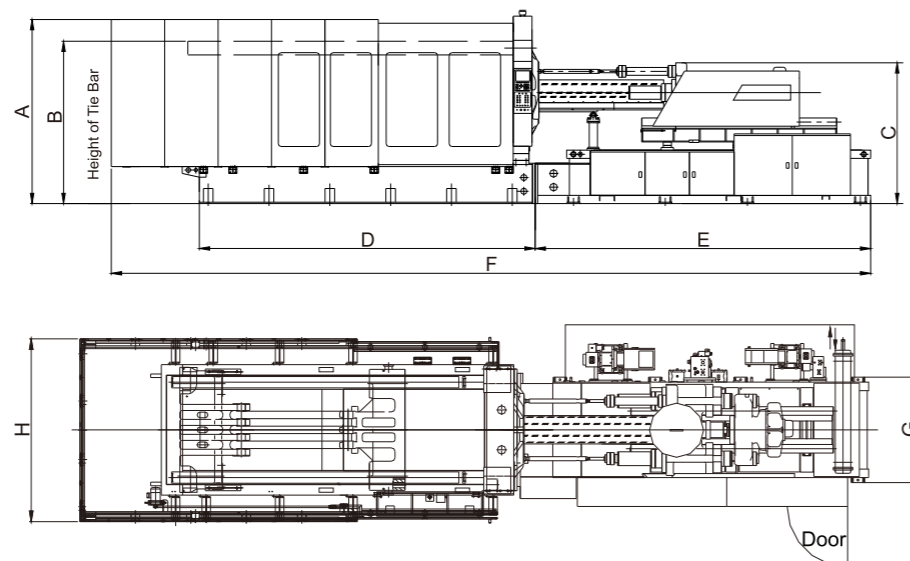
Machine Specifications

ITEM	UNIT	750Se II			850Se II			1000Se II			1250Se II			1500Se II			1800Se II			2200Se II		
		90	100	110	90	100	110	100	110	125	110	125	140	125	135	145	135	145	160	140	160	180
Screw diameter	mm	90	100	110	90	100	110	100	110	125	110	125	140	125	135	145	135	145	160	140	160	180
Theoretical shot volume	cm <sup>3</sup>	2990	3691	4467	2990	3691	4467	3848	4657	6013	5293	6835	8574	7915	9232	10651	9232	10651	12969	11238	14678	18576
Shot weight (PS)	g	2691	3322	4020	2691	3322	4020	3464	4191	5412	4764	6152	7717	7124	8309	9586	8309	9586	11672	10114	13210	16719
Shot weight (PS)	oz	95	117	142	95	117	142	122	148	191	168	217	273	252	294	339	294	339	412	357	467	591
Length / Diameter ratio	L/D	22.6	20.0	18.0	22.6	20.0	18.0	22.3	20.0	17.7	23.3	20.8	18.5	23.0	21.1	19.7	21.1	19.7	17.8	24.9	22.0	19.5
Injection pressure	MPa	212	171	142	212	171	142	209	173	134	233	180	144	218	187	162	187	162	133	221	169	134
Injection rate	cm <sup>3</sup> /sec	572	706	854	572	706	854	651	787	1017	650	839	1052	695	810	935	1053	1215	1480	1024	1338	1693
Plasticizing capacity (PS)	g/s	73	90	121	73	90	121	93	118	154	106	151	184	117	146	173	189	225	235	144	203	261
Injection stroke	mm		470			470			490			557			645			645			730	
Max. screw speed	rpm		124			124			115			104			81			105		89		70
Injection unit force	Ton		19.8			19.8			19.8			19.8			28.8			28.8			29.0	
Carriage stroke	mm		600			600			650			800			800			850			1080	
Clamping force	Ton		750			850			1000			1250			1500			1800			2200	
Max. daylight	mm		2050			2200			2300			2600			2900			3000			3700	
Clamping stroke	mm		1025			1100			1150			1300			1500			1500			1900	
Distance between tie bars	mm		1000×1000			1060×1060			1100×1100			1250×1250			1400×1400			1600×1400			1800×1600	
Min mould dimension	mm		700×700			740×740			780×780			875×875			980×980			1100×980			1260×1100	
Mould thickness range	mm		350~1025			450~1100			450~1150			500~1300			600~1400			700~1500			900~1800	
Ejector force	Ton		25			25			25			25			33			33			39	
Ejector stroke	mm		350			350			350			350			350			380			450	
No. of ejector pins	unit		21			21			21			21			33			33			33	
Max. motor power	kW		83.8			83.8			94.2			112			112			131.9			148.7	
System pressure	MPa		17			17			17			17			17			17			17	
Hydraulic pump capacity	L/min		440			440			495			550			550			715			825	
No. of heating zone	unit		5+1			5+1			5+1			5+1			5+1			5+1			5+1	
Heater power	kW		50			50			58			74			92			92			123	
Total power	kW		132.8			132.8			151.2			185			203			222.9			272.24	
Total current	A		161.4			161.4			182.6			224.9			246.7			270.9			330.9	
Machine net weight	Ton		39.1			43.0			52.0			68.2			100.0			125.0			169.0	
Oil filling capacity	L		1500			1500			1600			1600			2000			2000			2300	

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Machine Dimensions

750Se II ~2200Se II



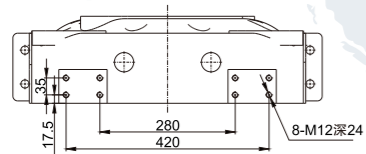
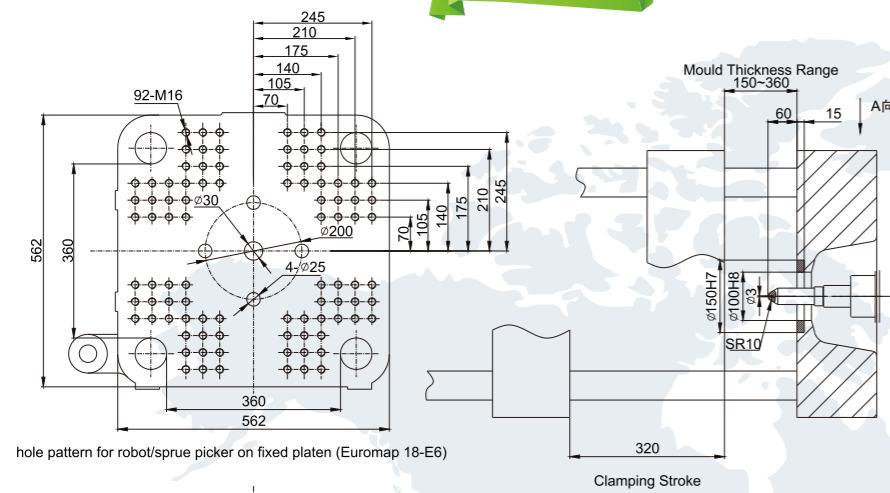
Model:	A	B	C	D	E	F	G	H
750Se II	2539	2227	2635	4318	4497	10192	1410	2295
850Se II	2420	2300	2635	4668	4497	10514	1410	2340
1000Se II	2687	2370	2717	4904	4900	11090	1482	2569
1250Se II	2867	2530	2853	5485	5060	12149	1482	2812
1500Se II	2808	2700	3200	6158	5360	13290	1340	2971
1800Se II	2808	2720	3200	6340	5360	13439	1340	3210
2200Se II	3267	3240	3580	7675	7298	16724	1555	4085

Remark: C-hopper height for reference only

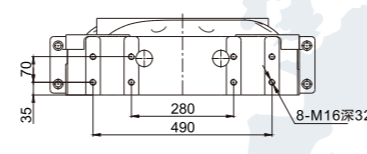
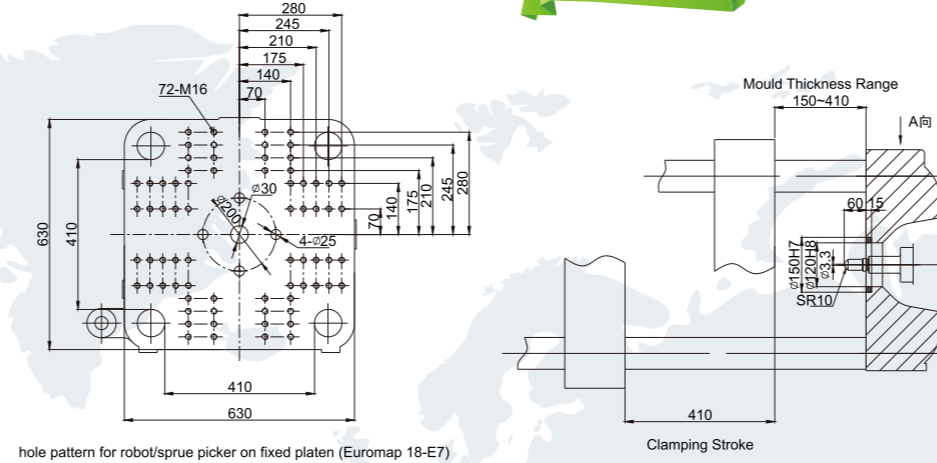


Platen/Nozzle Dimensions

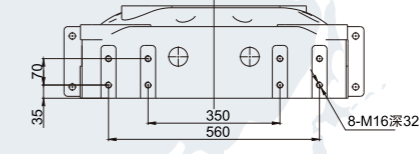
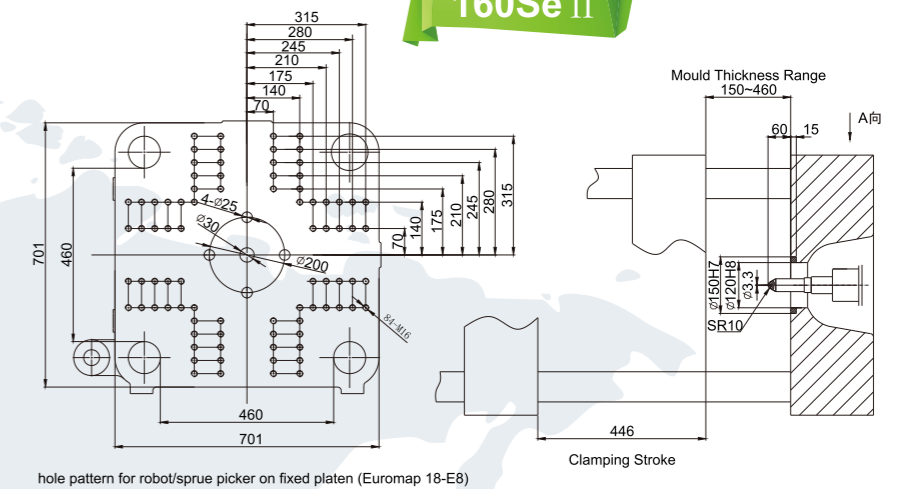
90Se II



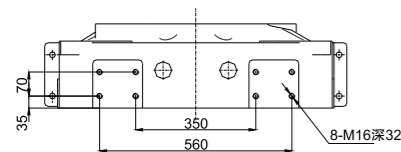
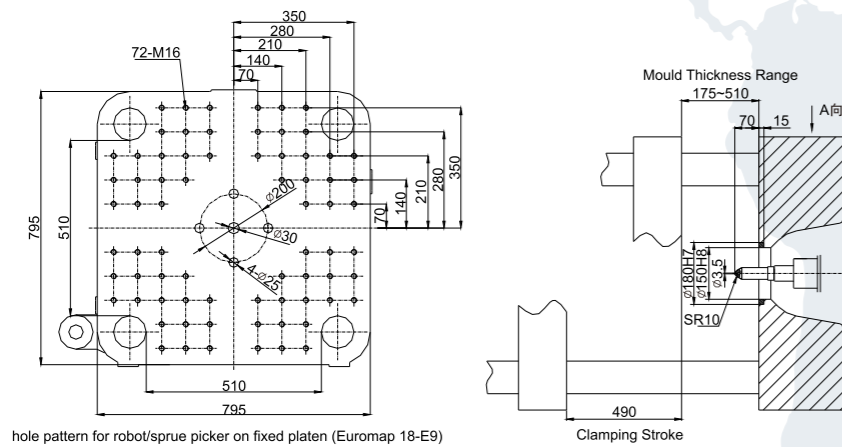
130Se II



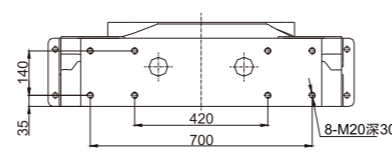
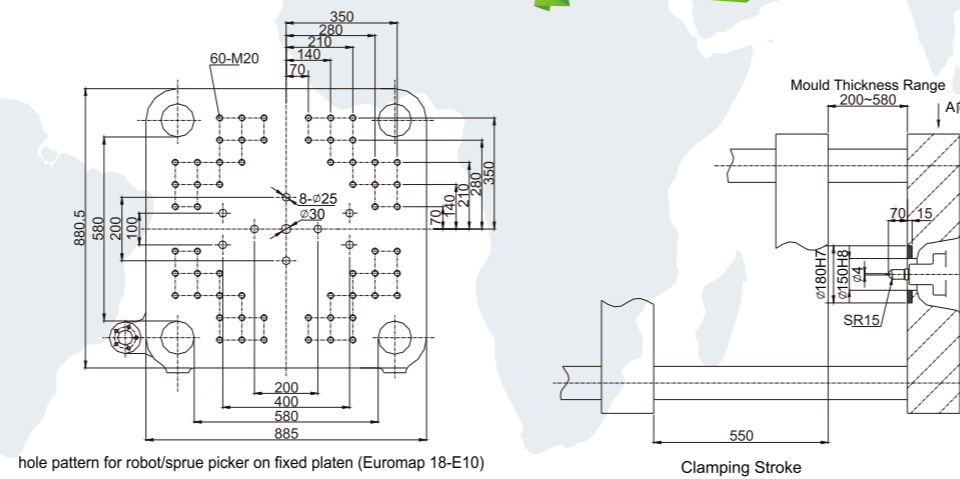
160Se II



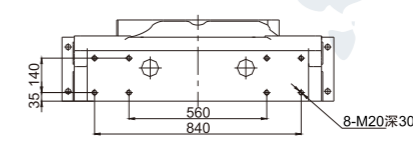
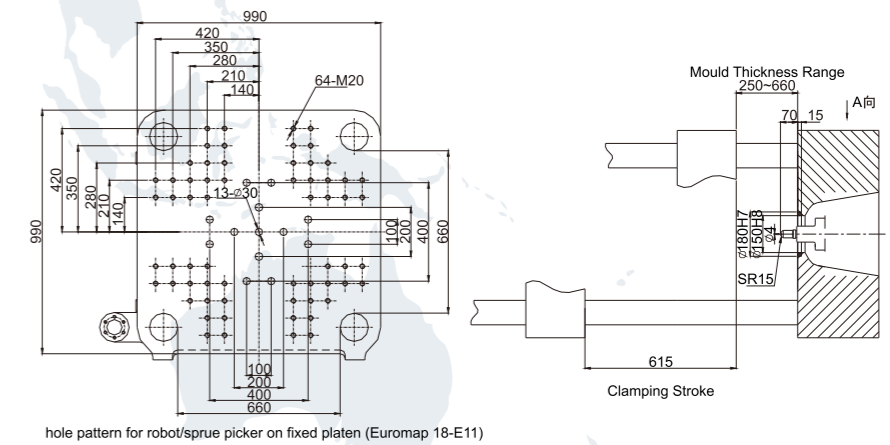
190Se II



260Se II



320Se II

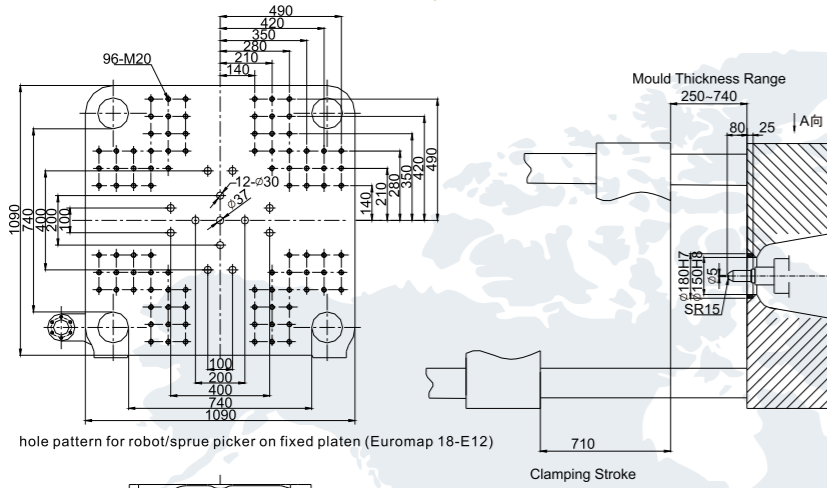






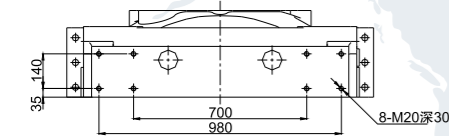
Platen/Nozzle Dimensions

380Se II

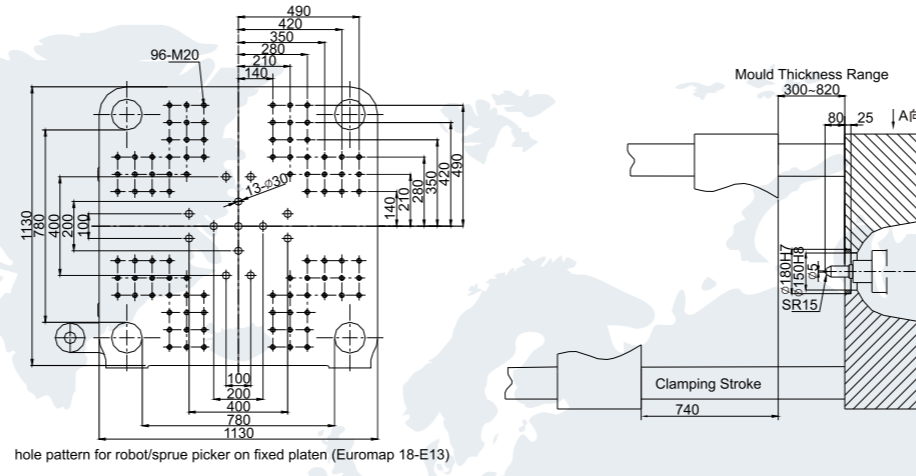


hole pattern for robot/sprue picker on fixed platen (Euomap 18-E12)

Clamping Stroke

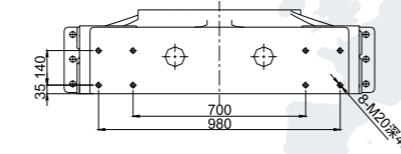


450Se II

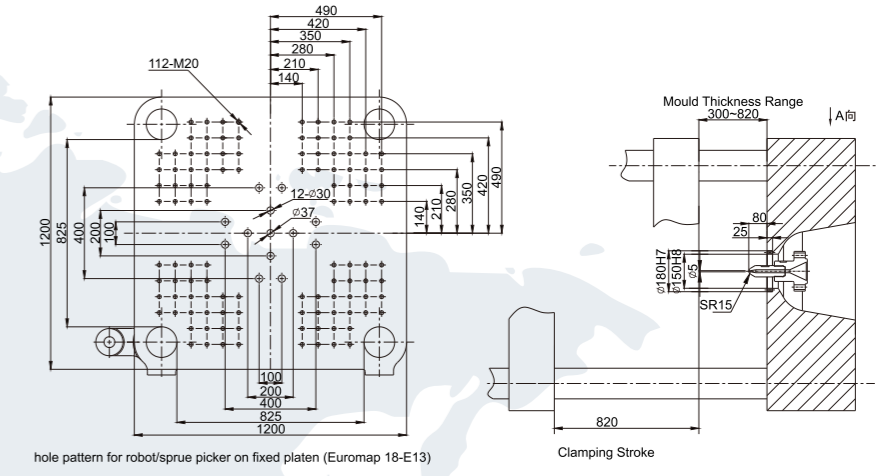


hole pattern for robot/sprue picker on fixed platen (Euomap 18-E13)

Clamping Stroke

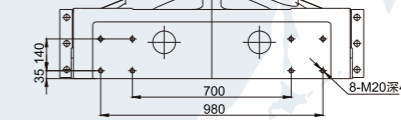


500Se II

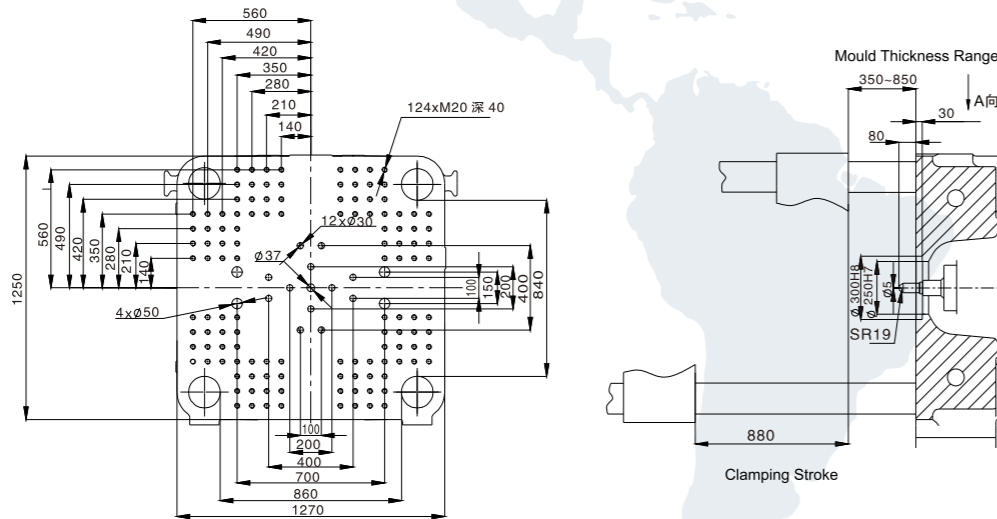


hole pattern for robot/sprue picker on fixed platen (Euomap 18-E13)

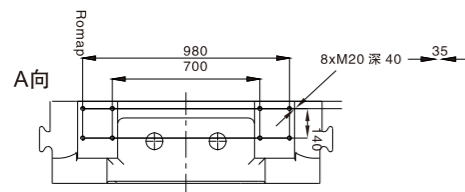
Clamping Stroke



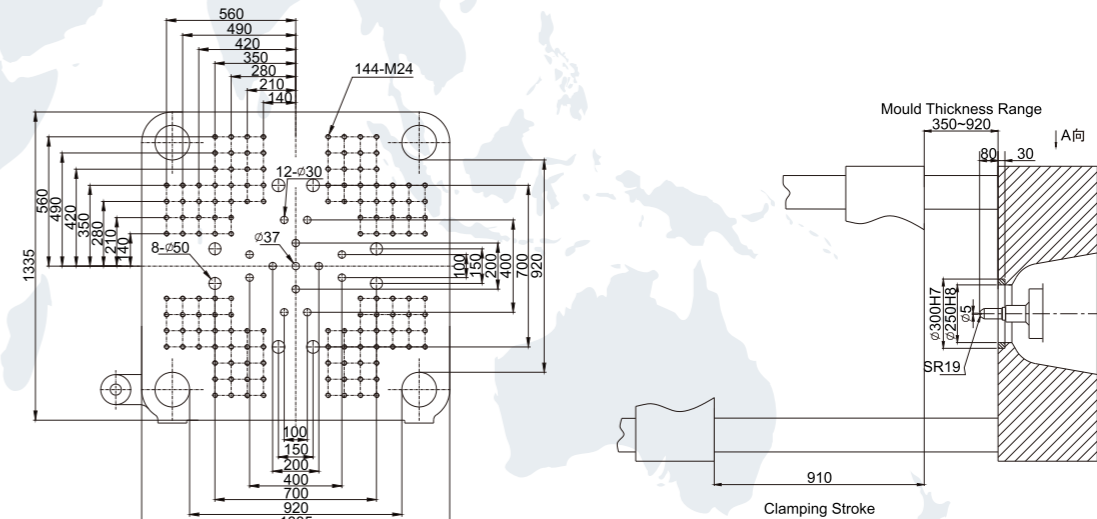
560Se II



Clamping Stroke

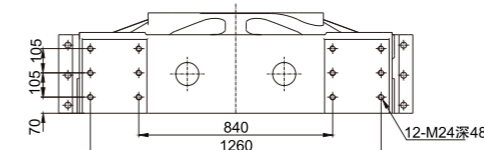


660Se II



hole pattern for robot/sprue picker on fixed platen (Euomap 18-E15)

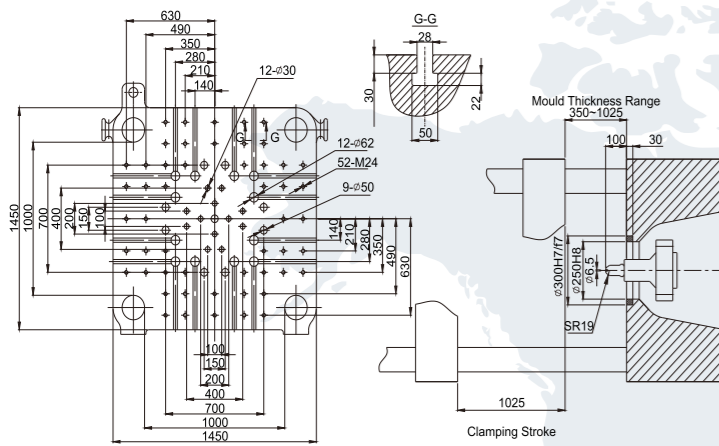
Clamping Stroke



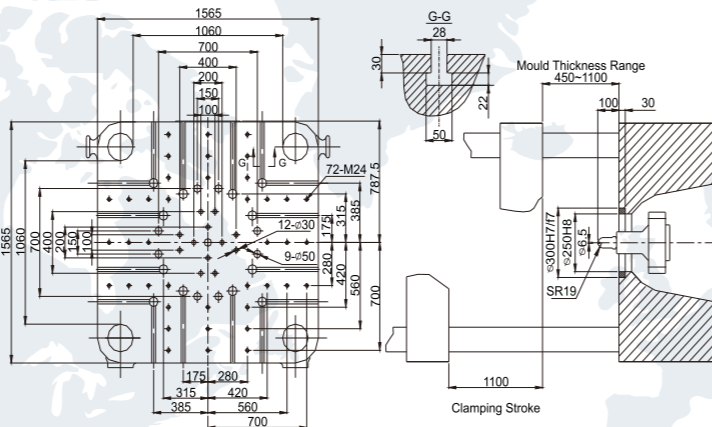


Platen/Nozzle Dimensions

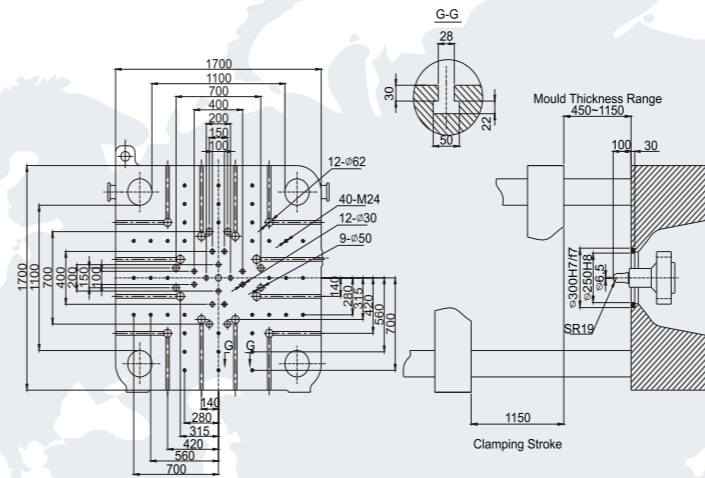
750Se II



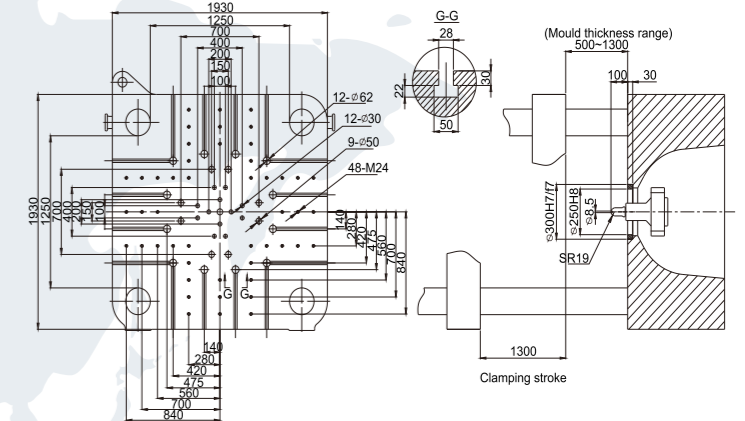
850Se II



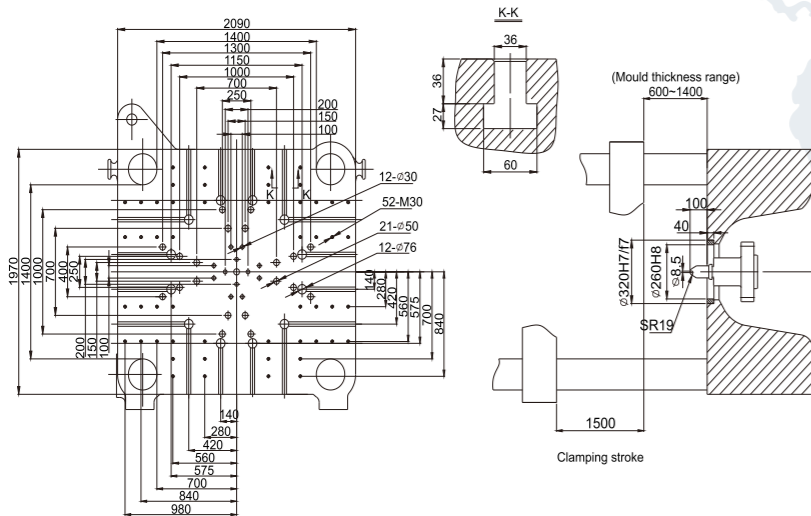
1000Se II



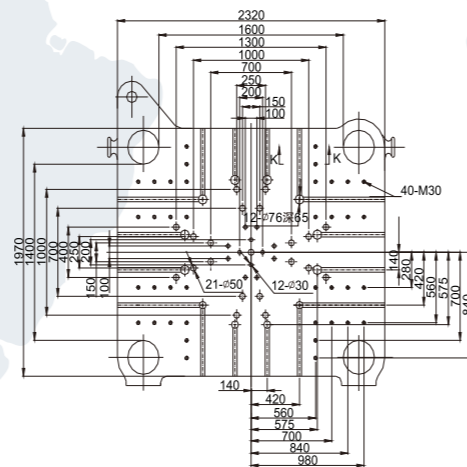
1250Se II



1500Se II



1800Se II



2200Se II

