



SeKIII Servo-driven Energy Saving Injection Molding Machine (90-660T)



Welltec Machinery Ltd



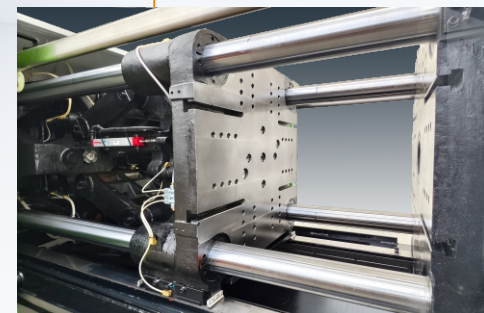
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The newly upgraded **SeKIII** series machines are officially released



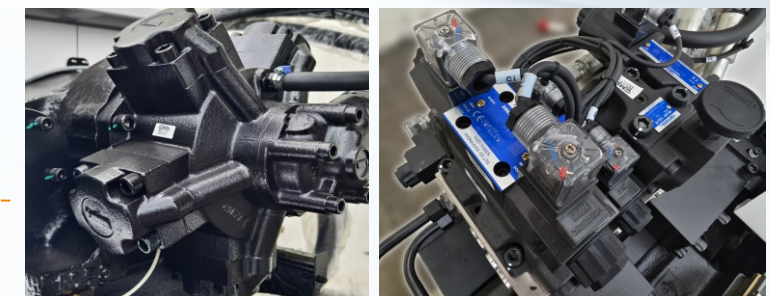
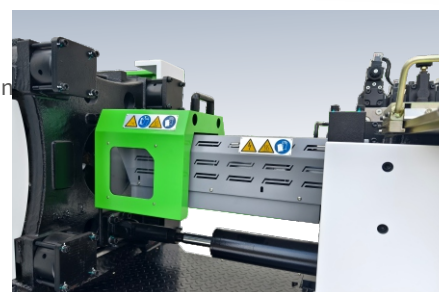
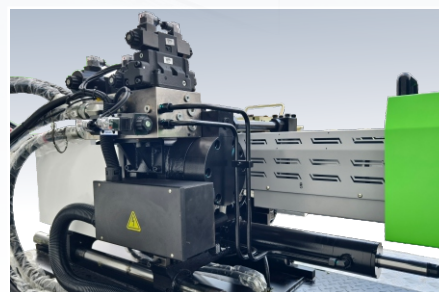
Software & Features

- 10" TFT color touchscreen with intuitive human-machine-interface featuring 9 master function panels for simplified operation and maintenance.
- Precision control algorithms. Fully closed-loop control of mold open/close, injection, plasticizing and ejection, enabling smooth, accurate, high-efficient movement of the machine.
- A large number of commonly-used control functions are built in to meet the needs of various different molds, products and molding processes. Easy for clients to use.



Clamping Unit

- High-strength optimized clamping structure significantly reduces frame deformation.
- Optimized toggle mechanism ensures smoother, faster and more precise mold opening/closing.
- Optimized platen design reduces stress concentrations, ensuring accuracy for the molded products.
- T-slot standard for this whole series ensure easy mold changes and extend platen service life.
- Gear-driven mold adjustment for this whole series to ensure smooth movement and low noise.
- The new sliding design ensures stable and reliable movement of the moving platen.



Hydraulic Control System

- High efficient and stable servo power system.
- Fast response. Stable movement and low noise.
- Optimized hydraulic pipeline design minimizes energy loss.

Next-generation Injection Unit Structure

- Double-layer injection unit with compact structure.
- Optimized injection carriage structure ensures stable and reliable performance.
- Multiple ergonomic designs to enhance operational and maintenance efficiency.

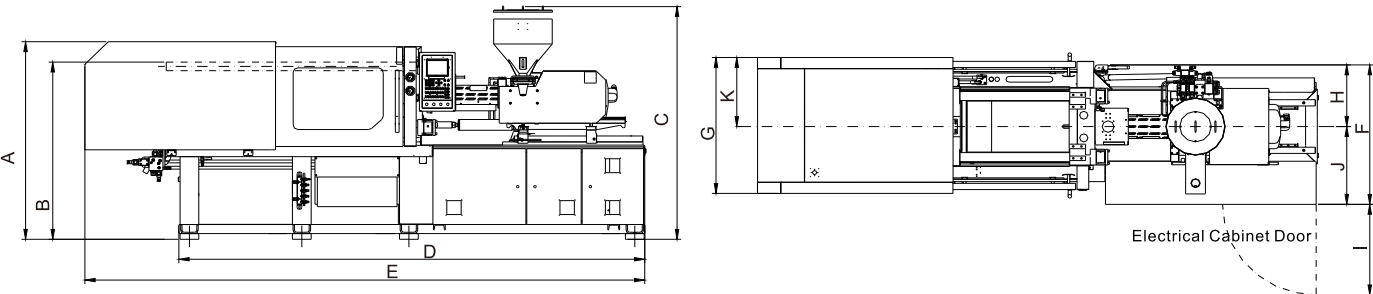
Specifications

ITEM	UNIT	90SeKIII			120SeKIII			160SeKIII		
		900-295			1200-405			1600-605		
Injection unit										
Screw diameter	mm	30	35	40	35	40	45	40	45	50
Theoretical shot volume	cm³	117	159	207	178	232	294	264	334	412
Shot weight (PS)	g	106	144	189	162	212	268	240	304	375
Shot weight (PS)	oz	3.8	5.1	6.7	5.7	7.5	9.5	8.5	10.7	13.3
Length/diameter ratio	L/D	24.0	20.6	18.0	23.4	20.5	18.2	22.5	20.0	18.0
Injection pressure	MPa	254	186	143	229	175	138	223	181	143
Injection rate	g/s	63	85	112	89	116	147	114	145	178
Injection rate	cm³/sec	69	94	123	98	128	162	125	159	196
Injection rate	mm/s	98			102			100		
Injection stroke	mm	165			185			210		
Max. screw speed	rpm	197			219			240		
Plasticising capacity (PS)	g/s	9.3	10.3	15.2	12.0	15.9	20.2	17.4	22.1	27.5
Injection unit force	ton	6			6			6		
Carriage stroke	mm	260			300			320		
Clamping unit										
Clamping force	Ton	90			120			160		
Max. daylight	mm	680			810			930		
Clamping stroke	mm	320			360			430		
Distance btwn. tie bars	mm	360×360			410×410			460×460		
Min. mould dimension	mm	250×250			280×280			320×320		
Mould thickness range	mm	120~360			150~450			160~500		
Ejector force	Ton	4.2			4.2			4.2		
Ejector stroke	mm	100			120			140		
No. of ejector pins	unit	5			5			5		
Power unit										
Max. motor power	kW	11.5			15.7			18.8		
System pressure	MPa	17.5			17.5			17.5		
Hydraulic pump capacity	L/min	60			76.8			96		
No. of heating zones	unit	3+1+1			3+1+1			4+1+1		
Heating power	kW	7.41			10.41			12.55		
Total power	kW	19.91			27.11			32.35		
Total current	A	27.23			37.07			44.24		
General										
Machine weight	Ton	2.82			3.65			4.53		
Oil filling capacity	L	120			154			170		
Machine dimensions (L*W*H)	mm	4070x1152x1615			4630x1131x1667			5077x1201x1746		

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

Machine Dimensions

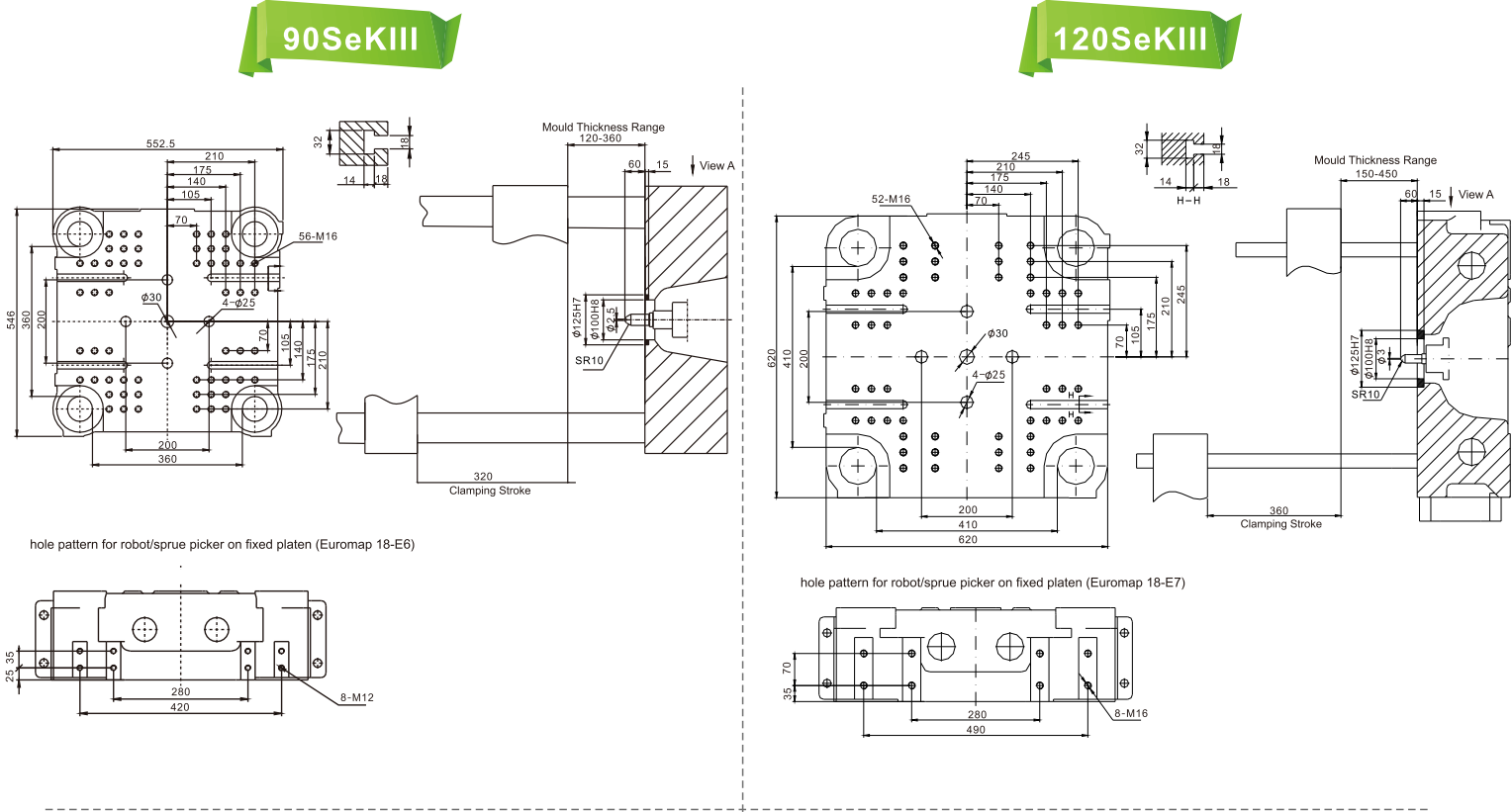
90SeKIII-160SeKIII



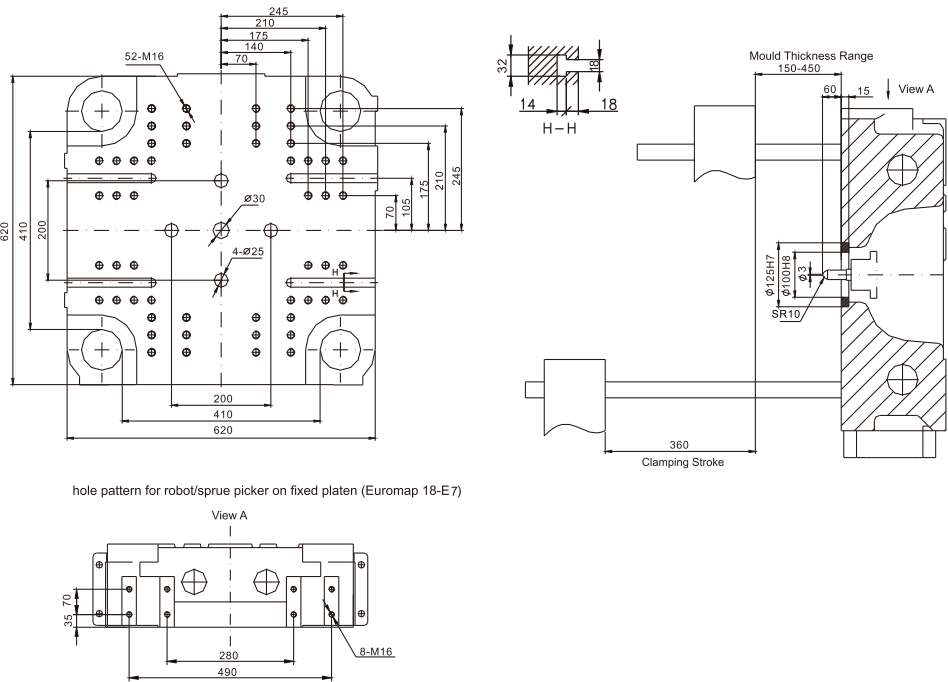
Model:	A	B	C	D	E	F	G	H	I	J	K
90SeKIII	1525	1375	1972	3450	3980	1059	1081	502	800	557	540.5
120SeKIII	1667	1492.5	2015	3635	4378	1109	1131	527	800	582	565.5
160SeKIII	1745.5	1565.5	2060	3980	4783	1232	1201	545	800	687	600.5

Remark: C-hopper height for reference only

Platen/Nozzle Dimensions



160SeKIII



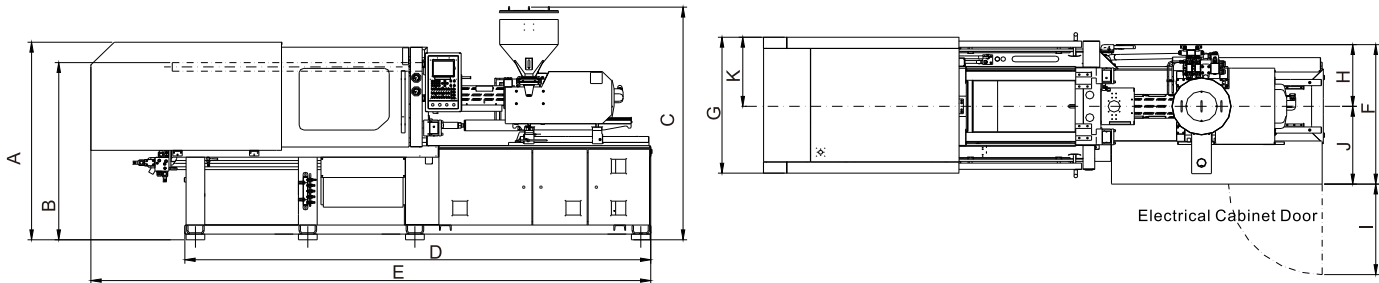
Specifications

ITEM	UNIT	200SeKIII			260SeKIII					
		2000-815			2600-1045			2600-1765		
Injection unit										
Screw diameter	mm	45	50	55	50	55	60	60	65	70
Theoretical shot volume	cm³	374	461	558	511	618	735	877	1029	1193
Shot weight (PS)	g	340	420	508	465	562	669	798	936	1086
Shot weight (PS)	oz	12.0	14.8	18.0	16.4	19.9	23.6	28.2	33.1	38.4
Length/diameter ratio	L/D	22.2	20.0	18.2	22.0	20.0	18.3	22.2	20.5	19.0
Injection pressure	MPa	218	176	146	205	169	142	201	171	148
Injection rate	g/s	146	181	218	196	237	282	253	297	345
Injection rate	cm³/sec	161	198	240	215	261	310	278	327	379
Injection rate	mm/s		101			110			98	
Injection stroke	mm		235			260			310	
Max. screw speed	rpm		200			189			192	
Plasticising capacity (PS)	g/s	24.3	30.2	36.8	24.1	29.3	41.6	42.2	57.6	67.1
Injection unit force	ton		10.1			10.1			10.1	
Carriage stroke	mm		325			350			350	
Clamping unit										
Clamping force	Ton		200			260			260	
Max. daylight	mm		990			1120			1120	
Clamping stroke	mm		470			540			540	
Distance btwn. tie bars	mm		510×510			570X570			570X570	
Min. mould dimension	mm		350×350			400×400			400×400	
Mould thickness range	mm		180~520			200~580			200~580	
Ejector force	Ton		6.7			6.7			6.7	
Ejector stroke	mm		150			160			160	
No. of ejector pins	unit		9			9			9	
Power unit										
Max. motor power	kW		23			31.4			37.7	
System pressure	MPa		17.5			17.5			17.5	
Hydraulic pump capacity	L/min		120			151.2			192	
No. of heating zones	unit		4+1+1			5+1			5+1	
Heating power	kW		15.5			18.9			24.83	
Total power	kW		39.5			51.3			63.53	
Total current	A		54.01			70.15			86.87	
General										
Machine weight	Ton		5.38			6.52			6.63	
Oil filling capacity	L		240			280			280	
Machine dimensions (L*W*H)	mm		5380x1271x1815			5865x1351x1920			5865x1351x1920	

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Machine Dimensions

200SeKIII-260SeKIII

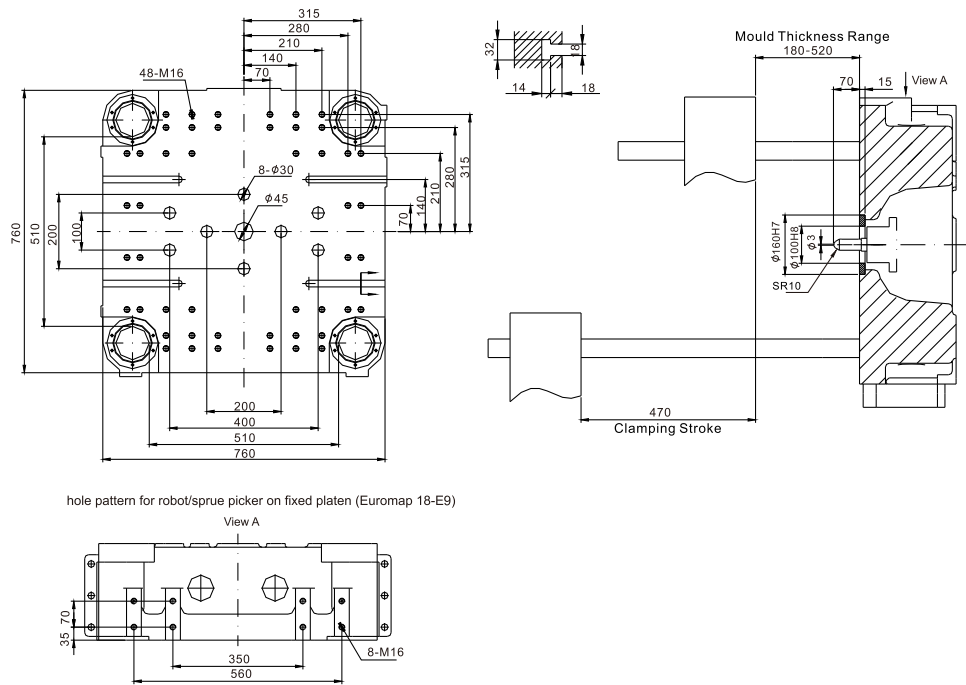


Model:	A	B	C	D	E	F	G	H	I	J	K
200SeKIII	1815	1642.5	2111	4185	5018	1167	1271	547	800	712	645.5
260SeKIII	1920	1737.5	2166	4720	5558	1379	1351	620	800	759	675.5

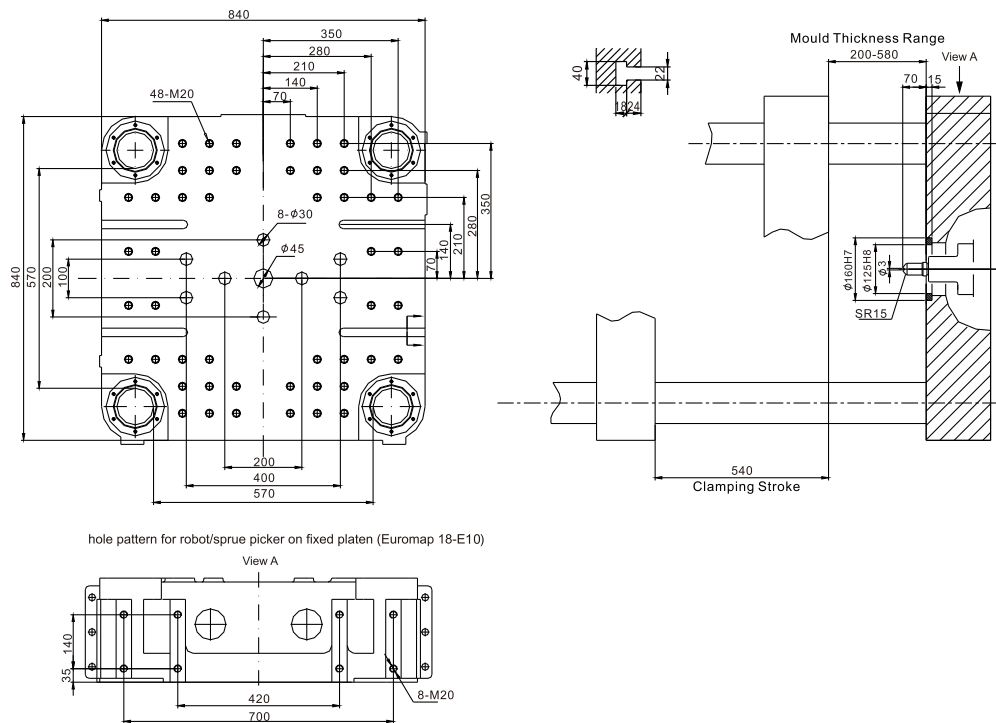
Remark: C-hopper height for reference only

Platen/Nozzle Dimensions

200SeKIII



260SeKIII

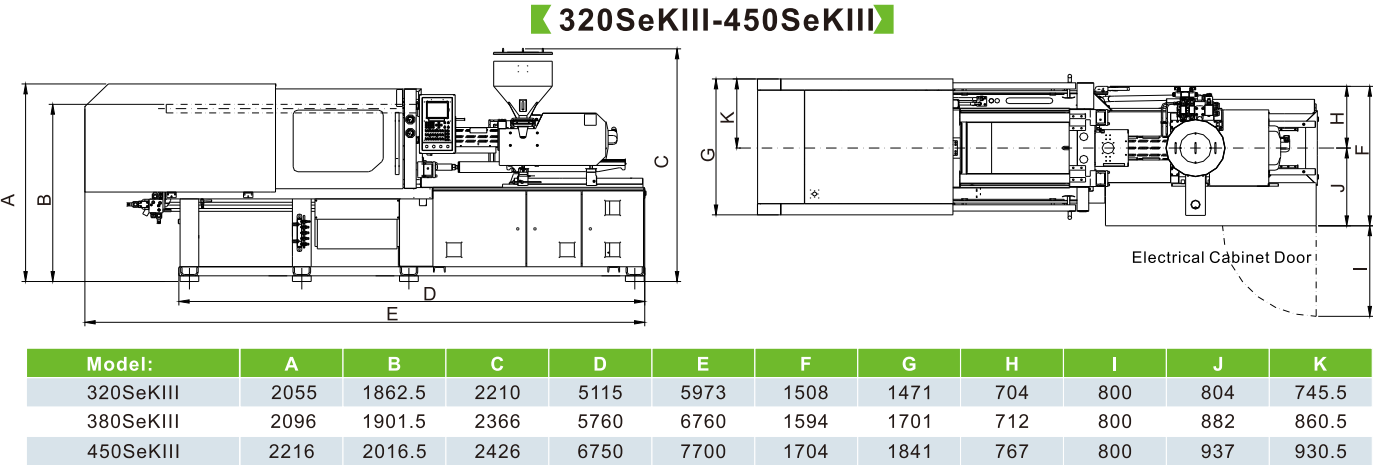


Specifications

ITEM	UNIT	320SeKIII			380SeKIII			450SeKIII		
		3200-1765			3800-2265			4500-3300		
Injection unit										
Screw diameter	mm	60	65	70	65	70	80	70	80	94
Theoretical shot volume	cm³	877	1029	1193	1095	1270	1659	1462	1910	2637
Shot weight (PS)	g	798	936	1086	996	1156	1509	1331	1738	2400
Shot weight (PS)	oz	28.2	33.1	38.4	35	41	53	47	61	85
Length/diameter ratio	L/D	22.2	20.5	19.0	21.5	20.0	17.5	24.0	21.0	17.9
Injection pressure	MPa	201	171	148	207	179	137	226	173	125
Injection rate	g/s	253	297	345	308	357	466	352	460	636
Injection rate	cm³/sec	278	327	379	338	392	512	387	506	698
Injection rate	mm/s	98			102			100		
Injection stroke	mm	310			330			380		
Max. screw speed	rpm	192			170			186		
Plasticising capacity (PS)	g/s	42.2	57.6	67.1	51.0	59.3	78.0	73.6	96.9	134.8
Injection unit force	ton	10.1			12.1			12.1		
Carriage stroke	mm	400			440			480		
Clamping unit										
Clamping force	Ton	320			380			450		
Max. daylight	mm	1260			1370			1580		
Clamping stroke	mm	600			660			780		
Distance btwn. tie bars	mm	660×660			710x710			820x800		
Min. mould dimension	mm	460×460			500x500			570x560		
Mould thickness range	mm	220~660			250-710			300-800		
Ejector force	Ton	6.7			11.1			11.1		
Ejector stroke	mm	170			210			220		
No. of ejector pins	unit	13			13			13		
Power unit										
Max. motor power	kW	37.7			55.3			56.5		
System pressure	MPa	17.5			17.5			17.5		
Hydraulic pump capacity	L/min	192			240			300		
No. of heating zones	unit	5+1			5+1			5+1		
Heating power	kW	24.83			28.99			34.94		
Total power	kW	63.53			85.29			92.44		
Total current	A	86.87			116.63			126.41		
General										
Machine weight	Ton	8.78			12.12			15.22		
Oil filling capacity	L	360			450			550		
Machine dimensions (L*W*H)	mm	6473x1471x2056			7183x1701x2126			7800x1874x2230		

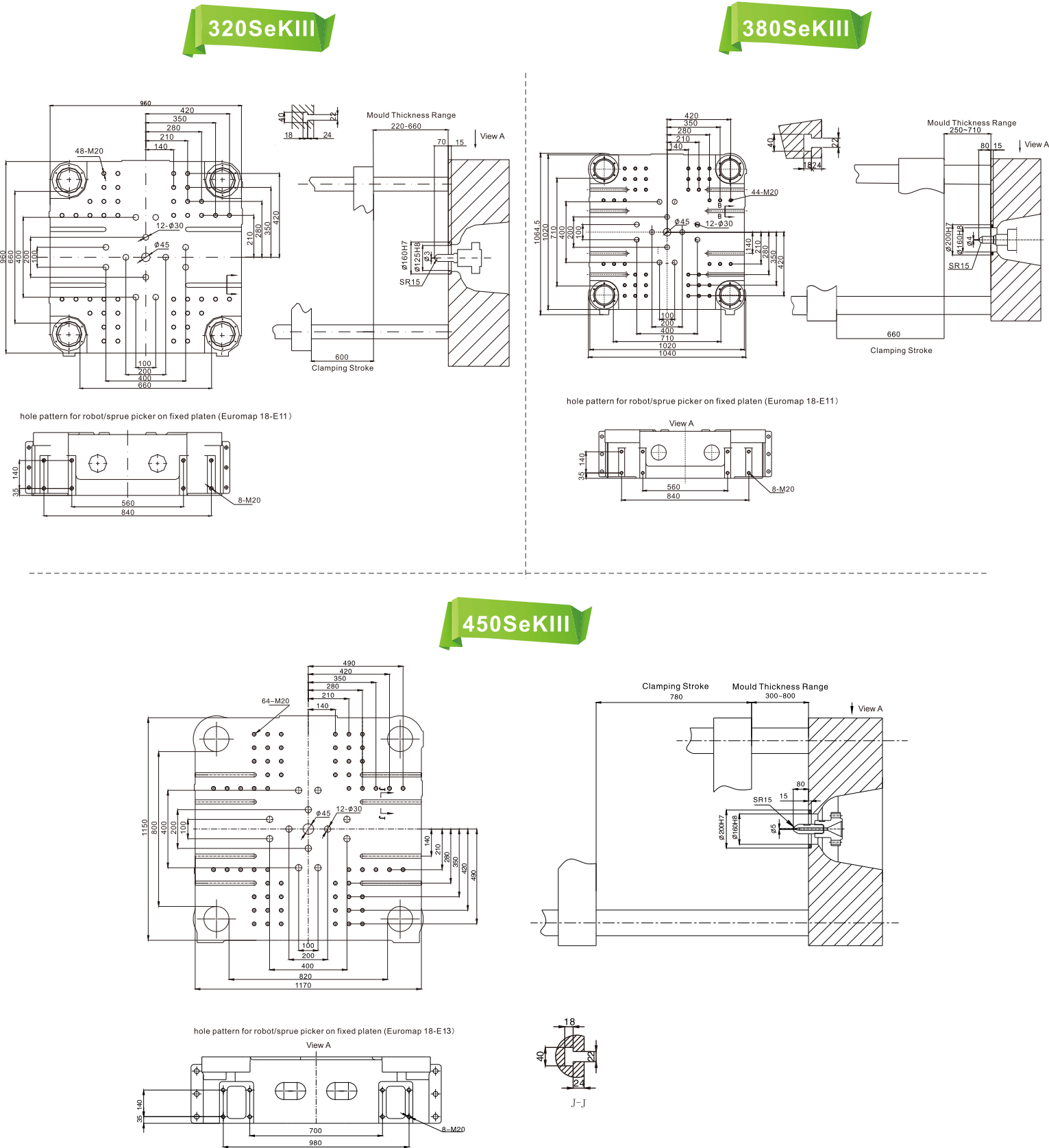
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Machine Dimensions



Remark: C-hopper height for reference only

Platen/Nozzle Dimensions



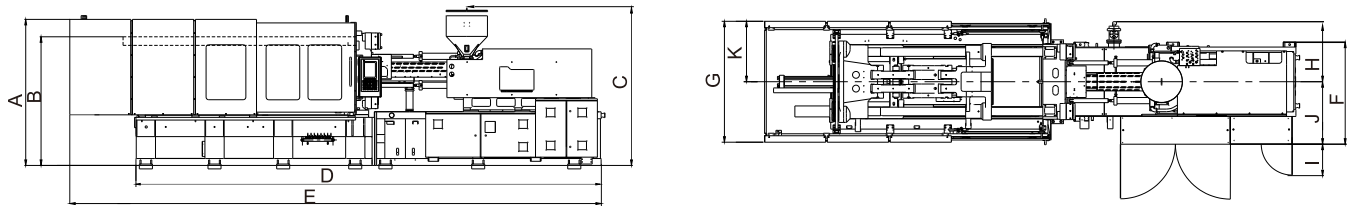
Specifications

ITEM	UNIT	530SeKIII			660SeKIII		
		5300-4762			6600-4762		
Injection unit							
Screw diameter	mm	80	90	105	80	90	105
Theoretical shot volume	cm³	2212	2799	3810	2212	2799	3810
Shot weight (PS)	g	1991	2519	3429	1991	2519	3429
Shot weight (PS)	oz	70.3	89.0	121.2	70.3	89.0	121.2
Length/diameter ratio	L/D	23.6	21	18	23.6	21	18
Injection pressure	MPa	215	170	125	215	170	125
Injection rate	g/s	473	599	815	473	599	815
Injection rate	cm³/sec	520	658	896	520	658	896
Injection rate	mm/s		103			103	
Injection stroke	mm		440			440	
Max. screw speed	rpm		161			161	
Plasticising capacity (PS)	g/s	87.7	106.4	160.9	87.7	106.4	160.9
Injection unit force	ton		20.4			20.4	
Carriage stroke	mm		600			600	
Clamping unit							
Clamping force	Ton		530			660	
Max. daylight	mm		1700			1830	
Clamping stroke	mm		850			910	
Distance btwn. tie bars	mm		840x830			920 x920	
Min. mould dimension	mm		580X580			645x645	
Mould thickness range	mm		300-850			350-920	
Ejector force	Ton		16.6			16.6	
Ejector stroke	mm		240			290	
No. of ejector pins	unit		17			21	
Power unit							
Max. motor power	kW		73.3			73.3	
System pressure	MPa		17.5			17.5	
Hydraulic pump capacity	L/min		384			384	
No. of heating zones	unit		5+1			5+1	
Heating power	kW		35.73			35.73	
Total power	kW		110.03			110.03	
Total current	A		150.5			150.5	
General							
Machine weight	Ton		23			26	
Oil filling capacity	L		775			800	
Machine dimensions (L*W*H)	mm		8995x1900x2274			9157x2193x2310	

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Machine Dimensions

530SeKIII-660SeKIII

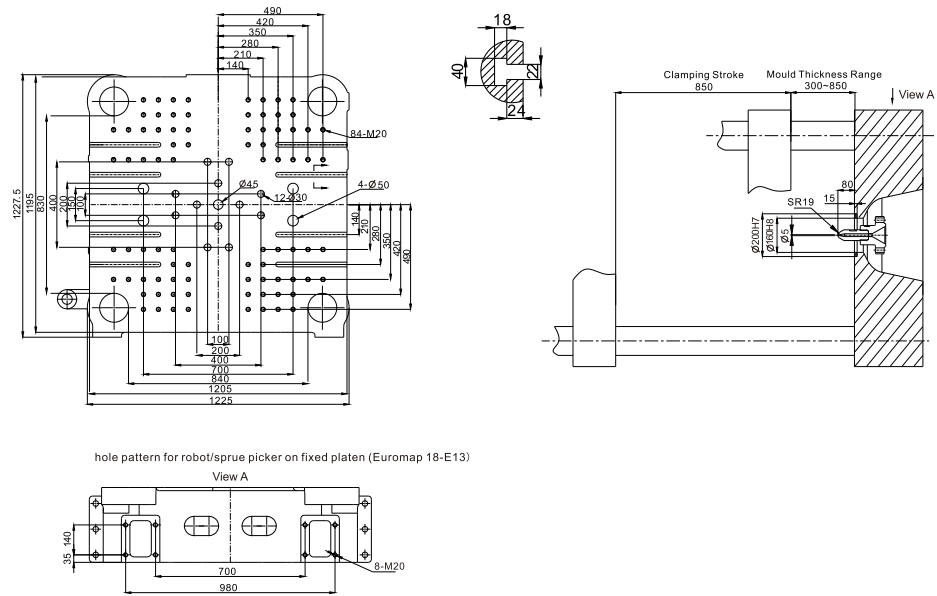


Model:	A	B	C	D	E	F	G	H	I	J	K
530SeKIII	2244	2005	2495	7846	8995	1809	1900	865	800	945	950
660SeKIII	2280	2125	2565	7642	9071	1805	1942	865	850	945	971

Remark: C-hopper height for reference only

Platen/Nozzle Dimensions

530SeKIII



660SeKIII

