



The Passionate Pursuit of Perfection

www.shuangma-machinery.com

www.bole-machinery.com

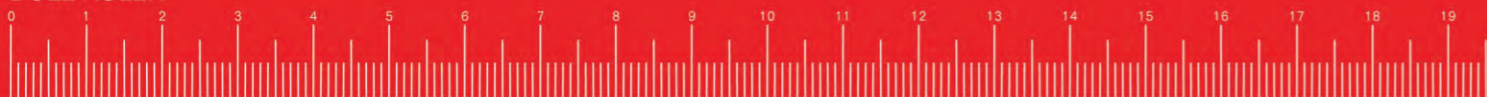
BOLE Customer Service Center

BOLE PLASTIC MACHINERY
NINGBO SHUANGMA MACHINERY INDUSTRY CO.,LTD
ADD:NO.99 WEISAN ROAD,XIAOGANG,NINGBO,CHINA
P.C:315821
TEL:+86-574-86188007
FAX:+86-574-86188008
E-mail: bole-sales@shuangma-machinery.com

THIS CATALOGUE ARE PROTECT BY LAW OF COPY RIGHT. ANY USE WITHOUT THE EXPRESS PERMISSION OF THE LAW OF COPY RIGHT, MUST GET APPROVAL OF SHUANGMA IN ADVANCE.

THIS VERSION WAS PRINTED IN JANUARY 2014,
ANY DIFFERENCE SPECIFICATION FROM OLD VERSION SHOULD BE SUBJECT TO THIS VERSION.

BOLE RULER



BOLE 伯乐
Injection Moulding Machine



BLEK



BL60EK-BL2100EK The technical parameter of BLEK Servo-drive,energy saving series

DESCRIPTION	UNIT	BL60EK			BL90EK			BL120EK			BL160EK			BL200EK			BL260EK			BL320EK			BL400EK				BL500EK				BL600EK			
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	D	A	B	C	D	A	B	C	D			
Screw diameter	in	0.984	1.102	1.260	1.260	1.417	1.575	1.417	1.575	1.772	1.575	1.772	1.969	1.772	1.969	2.165	2.165	2.362	2.559	2.362	2.559	2.756	2.559	2.756	2.953	3.150	2.756	3.150	3.346	3.543	3.150	3.346	3.543	3.937
Screw ratio	mm	25	28	32	32	36	40	36	40	45	40	45	50	45	50	55	55	60	65	60	65	70	65	70	75	80	70	80	85	90	80	85	90	100
Theoretical injection capacity	cu in	4.34	5.45	7.12	8.83	11.18	13.80	12.42	15.34	19.41	17.25	21.84	26.96	24.26	29.96	36.25	42.04	50.04	58.72	55.21	64.80	75.15	73.91	85.72	98.40	111.96	97.46	127.30	143.71	161.11	139.57	157.56	176.64	218.07
Shot weight(PS)	g	71	89	117	145	183	226	204	251	318	283	358	442	398	491	594	689	820	962	905	1062	1232	1211	1405	1613	1835	1597	2086	2355	2640	2287	2582	2895	3574
Injection rate into Air	cu in/s	2.3	2.9	3.8	4.7	5.9	7.3	6.6	8.2	10.3	9.2	11.6	14.3	12.9	15.9	19.3	22.4	26.6	31.2	29.4	34.5	40.0	39.3	45.6	52.3	59.5	51.8	67.7	76.4	85.7	74.2	83.8	93.9	116.0
Injection pressure	MPa	3264	2611	2002	3191	2509	2031	3061	2480	1958	3119	2466	2002	3061	2480	2045	2901	2437	2074	2901	2466	2118	2858	2466	2147	1886	3191	2437	2161	1929	2742	2422	2161	1755
Injection stroke	mm	180	138	100	173	140	100	211	171	135	215	170	138	211	171	141	200	168	143	200	170	146	197	170	148	130	220	168	149	133	189	167	149	121
Max. injection speed	in/s	145	180	225	225	285	355	355	445	555	555	695	875	875	1095	1375	1375	1715	2155	2155	2655	3315	3315	4035	5045	5045	415	525	665	835	835	1045	1315	1645
Max. Screw speed	r/min	126	163	200	200	250	310	310	385	480	480	600	750	750	937	1171	1171	1464	1830	1830	2288	2861	2861	3577	4471	4471	365	463	580	726	726	908	1135	1422
Clamping force	US Ton	67	85	107	133	169	208	187	231	293	260	329	406	366	452	546	634	754	885	832	977	1133	1114	1292	1484	1688	1469	1919	2167	2429	2104	2375	2663	3288
Opening stroke	mm	320	360	420	420	480	530	530	600	660	660	750	830	830	950	1050	1200	1350	1500	1500	1700	1900	1900	2150	2400	2700	2200	2800	3100	3400	3100	3500	3900	4700
Space between tie bar	mm x mm	360 x 330			410 x 360			460 x 410			510 x 460			560 x 510			660 x 610			710 x 660			760 x 710				860 x 800				960 x 860			
Min. mould height(T-slot)	mm	140(105)			160(125)			180(145)			200(165)			220(175)			240(195)			270(225)			300(255)				350(305)				400(355)			
Max. mould height(T-slot)	mm	340(305)			390(355)			460(425)			530(495)			560(515)			610(565)			690(645)			750(705)				800(755)				900(855)			
Max. distance Platen(T-slot)	mm	660(625)			750(715)			880(845)			1010(975)			1090(1045)			1190(1145)			1350(1305)			1500(1455)				1650(1605)				1850(1805)			
Ejector stroke	mm	70	85	100	100	120	140	140	170	200	170	210	250	250	300	350	350	420	500	500	600	700	700	840	1000	1000	210	250	300	350	350	420	500	600
Ejector force forward	US Ton	3	4	5	5	6	8	8	10	12	12	15	18	18	22	27	27	33	40	40	48	58	58	70	84	100	113	137	161	185	185	225	275	335
Ejector force back	US Ton	2	3	4	4	5	6	6	8	10	10	12	15	15	18	22	22	27	33	33	40	48	48	58	70	84	113	137	161	185	185	225	275	335
Number of ejector bar	PC	5	6	8	8	10	12	12	15	18	18	22	27	27	33	40	40	48	58	58	70	84	100	113	137	161	185	225	275	335	335	405	495	595
Sys. Pressure	psi	16	20	25	25	30	37	37	45	55	55	66	81	81	99	121	121	145	176	176	211	255	255	306	367	436	367	459	562	687	687	846	1033	1251
Pump Motor	hp	9	11	14	14	17	21	21	26	32	32	39	48	48	58	71	71	86	105	105	126	154	154	185	226	271	226	283	354	431	431	525	646	786
Heater power	kW	4.4	5.5	7.0	7.0	8.6	10.7	10.7	13.1	16.4	16.4	20.0	24.8	24.8	29.9	36.5	36.5	44.1	53.8	53.8	64.6	79.5	79.5	95.6	116.8	139.9	116.8	145.9	181.7	221.1	221.1	270.8	333.5	406.2
Number of temp. control zones		3+1	4	5	5	6	8	8	10	12	12	15	18	18	22	27	27	33	40	40	48	58	58	70	84	100	32.2	39.9	48.7	59.6	59.6	72.7	89.6	109.5
Hoper capacity	kg	25	31	39	39	48	60	60	73	90	90	109	134	134	163	200	200	243	297	297	356	435	435	523	641	770	100	125	155	190	190	232	287	354
Oil tank capacity	US gal	120	150	190	190	230	280	280	340	420	420	500	610	610	730	890	890	1070	1310	1310	1580	1940	1940	2320	2830	3360	750	930	1160	1430	1430	1740	2150	2640
Machine dimensions(L x W x H)	in x in x in	3.5 x 1.15 x 1.7			3.8 x 1.3 x 1.85			4.35 x 1.35 x 1.85			4.97 x 1.38 x 1.88			5.5 x 1.45 x 2.15			6.1 x 1.48 x 2.2			6.75 x 1.68 x 2.25			7.4 x 1.76 x 2.3				8.1 x 2.2 x 2.6				8.8 x 2.22 x 2.7			
Machine weight	US Ton	2.4	3	3.5	3.5	4.2	5.2	5.2	6.3	7.8	7.8	9.4	11.5	11.5	13.9	17.1	17.1	20.6	25.3	25.3	30.6	37.3	37.3	45.1	55.4	66.7	18.5	23.1	28.7	35.4	35.4	43.1	53.4	65.1

DESCRIPTION	UNIT	BL700EK				BL800EK				BL900EK				BL1100EK				BL1300EK				BL1500EK				BL1700EK				BL2100EK							
		A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D				
Screw diameter	in	3.346	3.543	3.937	4.331	3.543	3.937	4.331	4.724	3.543	3.937	4.331	4.724	3.937	4.331	4.724	5.118	4.331	4.724	5.118	5.512	4.724	5.118	5.512	5.906	5.118	5.512	5.906	6.299	5.512	5.906	6.299	6.693	5.906	6.299	6.693	7.087
Screw ratio	mm	85	90	100	110	90	100	110	120	90	100	110	120	100	110	120	130	110	120	130	140	120	130	140	150	130	140	150	160	140	150	160	170	150	160	170	180
Theoretical injection capacity	cu in	173.14	194.11	239.64	289.97	211.58	261.21	316.06	376.14	211.58	261.21	316.06	376.14	285.17	345.06	410.65	481.94	371.16	441.71	518.39	601.21	469.31	550.79	638.79	733.30	587.24	681.06	781.83	889.55	737.42	846.53	963.16	1087.32	900.45	1024.51	1156.58	1296.65
Shot weight(PS)	g	2837	3181	3927	4752	3467	4280	5179	6164	3467	4280	5179	6164	4673	5654	6729	7898	6082	7238	8495	9852	7691	9026	10468	12017	9623	11161	12812	14577	12084	13872	15783	17818	14756	16789	18953	21248
Injection rate into Air	cu in/s	36.3	40.7	50.2	60.8	37.1	45.8	55.4	65.9	37.1	45.8	55.4	65.9	41.7	50.5	60.1	70.5	52.1	62.0	72.8	84.4	62.0	72.8	84.4	96.9	66.7	77.4	88.8	101.0	79.1	90.8	103.3	116.6	86.0	97.8	110.4	123.8
Injection pressure	psi	2727	2437	1973	1639	3017	2437	2016	1697	3017	2437	2016	1697	2974	2466	2060	1770	2858	2408	2045	1770	2800	2393	2060	1799	2800	2408	2103	1842	2756	2393	2103	1871	2742	2408	2132	1915
Injection stroke	mm	188	168	136	113	208	168	139	117	208	168	139	117	205	170	142	122	197	166	141	122	193	165	142	124	193	166	145	127	190	165	145	129	189	166	147	132
Max. injection speed	in/s	19.69	22.5	28.5	34.5	21.46	26.5	32.5	38.5	21.46	26.5	32.5	38.5	23.43	28.5	34.5	40.5	25.20	30.3	36.3	42.3	26.77	31.9	37.9	43.9	28.54	33.7	39.7	45.7	30.91	36.2	42.2	48.2	32.87	38.2	44.2	50.2
Max. Screw speed	r/min	163	180	225	270	174	210	255	300	174	210	255	300	195	231	276	321	231	276	321	366	276	321	366	411	321	366	411	456	366	411	456	501	411	456	501	546
Clamping force	US Ton	787	899	1011	1123	899	1011	1123	1235	899	1011	1123	1235	1236	1461	1686	1911	1461	1686	1911	2136	1686	1911	2136	2361	1911	2136	2361	2586	2136	2361	2586	2811	2361	2586	2811	3036
Opening stroke	mm	1050	1100	1150	1200	1100	1150	1200	1250	1150	1200	1250	1300	1320	1450	1580	1710	1580	1710	1840	1970	1710	1840	1970	2100	1840											

BL2500EK-BL4000EK The technical parameter of BLEK Servo-drive,energy saving series

伯乐 Injection Moulding Machine

DESCRIPTION	UNIT	BL2500EK								BL2800EK			
		A	B	C	D	A	B	C	D	A	B	C	D
Screw diameter	in	5.906	6.299	6.693	7.087	6.693	7.283	7.874	8.661	6.693	7.283	7.874	8.661
	mm	150	160	170	180	170	185	200	220	170	185	200	220
Screw ratio		23	22	21	20	24	22	20	19	24	22	20	19
Theoretical injection capacity	cu in	900.45	1024.51	1156.58	1296.65	1281.24	1517.31	1773.34	2145.74	1281.24	1517.31	1773.34	2145.74
	cm ³	14756	16789	18953	21248	20996	24864	29060	35162	20996	24864	29060	35162
Shot weight(PS)	g	13575	15446	17437	19548	19316	22875	26735	32349	19316	22875	26735	32349
	oz	478.8	544.8	615.0	689.5	681.3	806.9	943.0	1141.1	681.3	806.9	943.0	1141.1
Injection rate into Air	cu in/s	86.0	97.8	110.4	123.8	88.0	104.3	121.9	147.4	88.0	104.3	121.9	147.4
	cm ³ /s	1409	1603	1809	2028	1443	1709	1997	2416	1443	1709	1997	2416
Injection pressure	psi	2742	2408	2132	1915	2814	2379	2045	1683	2814	2379	2045	1683
	MPa	189	166	147	132	194	164	141	116	194	164	141	116
Injection stroke	in			32.87				36.42				36.42	
	mm			835				925				925	
Max. injection speed	in/s			3.14				2.50				2.50	
	mm/s			79.7				63.5				63.5	
Max. Screw speed	r/min			53				48				48	
Clamping force	US Ton				2810							3147	
	kN				25000							28000	
Opening stroke	in				2000							2100	
	mm												
Space between tie bar	in x in				1820 x 1620							1920 x 1720	
	mm x mm												
Min. mould height(T-slot)	in				800							850	
	mm											1900	
Max. mould height(T-slot)	in				1800							1900	
	mm												
Max. distance Platen(T-slot)	in				3800							4000	
	mm												
Ejector stroke	in				500							500	
	mm				48							48	
Ejector force forward	US Ton				425							425	
	kN				38							38	
Ejector force back	US Ton				334							334	
	kN				33							33	
Number of ejector bar	PC												
Sys. Pressure	psi			16				16				16	
	MPa												
Pump Motor	hp			37+47+47+47				47+47+47+47				47+47+47+47	
	kW												
Heater power	hp			122.9				165.3				165.3	
	kW			8+1				8+1				8+1	
Number of temp. control zones													
Hoper capacity	lbm			400				400				400	
	kg												
Oil tank capacity	US gal			2750				3000				3000	
	L												
Machine dimensions(L x W x H)	in x in x in			17.2 x 3.95 x 4.5				18.1 x 3.95 x 5.1				18.5 x 4.15 x 5.1	
	m x m x m												
Machine weight	US Ton			160				170				190	
	Ton												

DESCRIPTION	UNIT	BL2800EK				BL2880EK				BL4000EK			
		A	B	C	D	A	B	C	D	A	B	C	D
Screw diameter	in	7.874	8.661	9.055	9.449	7.874	8.661	9.055	9.449	9.055	9.449	9.843	10.236
	mm	200	220	230	240	200	220	230	240	230	240	250	260
Screw ratio		24	22	21	20	24	22	21	20	23	22	21	20
Theoretical injection capacity	cu in	2214.28	2679.28	2928.38	3188.56	2214.28	2679.28	2928.38	3188.56	3283.34	3575.05	3879.18	4195.72
	cm ³	36285	43905	47987	52251	36285	43905	47987	52251	53804	58584	63568	68755
Shot weight(PS)	g	33383	40393	44148	48071	33383	40393	44148	48071	49500	53898	58483	63255
	oz	1177.5	1424.8	1557.3	1695.6	1177.5	1424.8	1557.3	1695.6	1746.0	1901.2	2062.9	2231.2
Injection rate into Air	cu in/s	110.8	134.1	146.6	159.6	110.8	134.1	146.6	159.6	153.2	166.9	181.0	195.8
	cm ³ /s	1816	2197	2402	2615	1816	2197	2402	2615	2511	2734	2967	3209
Injection pressure	psi	2800	2321	2118	1944	2800	2321	2118	1944	2437	2234	2060	1900
	MPa	193	160	146	134	193	160	146	134	168	154	142	131
Injection stroke	in			45.47				45.47				50.98	
	mm			1155				1155				1295	
Max. injection speed	in/s			2.28				2.28				2.38	
	mm/s			57.8				57.8				60.5	
Max. Screw speed	r/min			54				54				57	
Clamping force	US Ton			3147				3709				4496	
	kN			28000				33000				40000	
Opening stroke	in				2100			2200				2350	
	mm												
Space between tie bar	in x in				1920 x 1720			2110 x 1910				2420 x 2220	
	mm x mm												
Min. mould height(T-slot)	in			850				950				1100	
	mm												
Max. mould height(T-slot)	in			1900				2000				2100	
	mm												
Max. distance Platen(T-slot)	in			4000				4200				4450	
	mm												
Ejector stroke	in			500				550				600	
	mm			48				64				64	
Ejector force forward	US Ton			425				565				565	
	kN			38				50				50	
Ejector force back	US Ton			334				442				442	
	kN			33				25				25	
Number of ejector bar	PC												
Sys. Pressure	psi			16				16				16	
	MPa												
Pump Motor	hp			47+47	+47+47+47			47+47+47+47+47				47+47+47+47+47+47	
	kW												
Heater power	hp			225.9				225.9				252	
	kW			8+1				8+1				8+1	
Number of temp. control zones													
Hoper capacity	lbm			400				400				400	
	kg												
Oil tank capacity	US gal			3500				3500				4000	
	L												
Machine dimensions(L x W x H)	in x in x in			19.5 x 4.15 x 5.6				20.5 x 4.45 x 5.6				22.5 x 4.65 x 6.0	
	m x m x m												
Machine weight	US Ton			210				255				315	
	Ton												



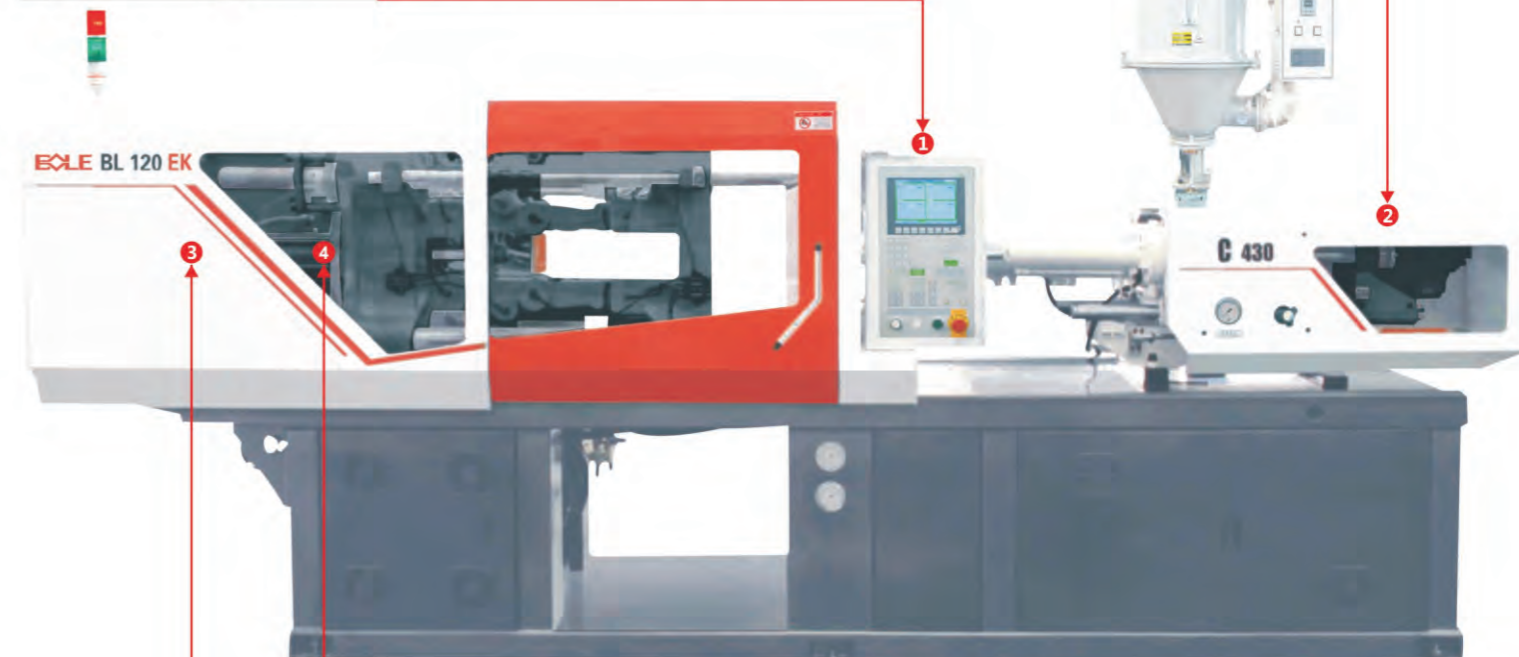
Precise Injection Unit

1. High performance injection unit, with integrated injection base bracket and sliding bushing made of special material to reach the results of rigid holding, low friction, and stable running
2. Special design of screw and barrel to ensure complete mixing of source materials
3. Multiple optional professional plasticizing systems



Intelligent Control Unit

High level special injection molding machine controller, friendly man-machine interface, involving the design idea of human-oriented, to reach real-time monitoring of production process, and quick response of system, precise execution of machine, we meet your personal requirements with easy operation of man-machine interface and optional multiple additional functions.



European style ejector system

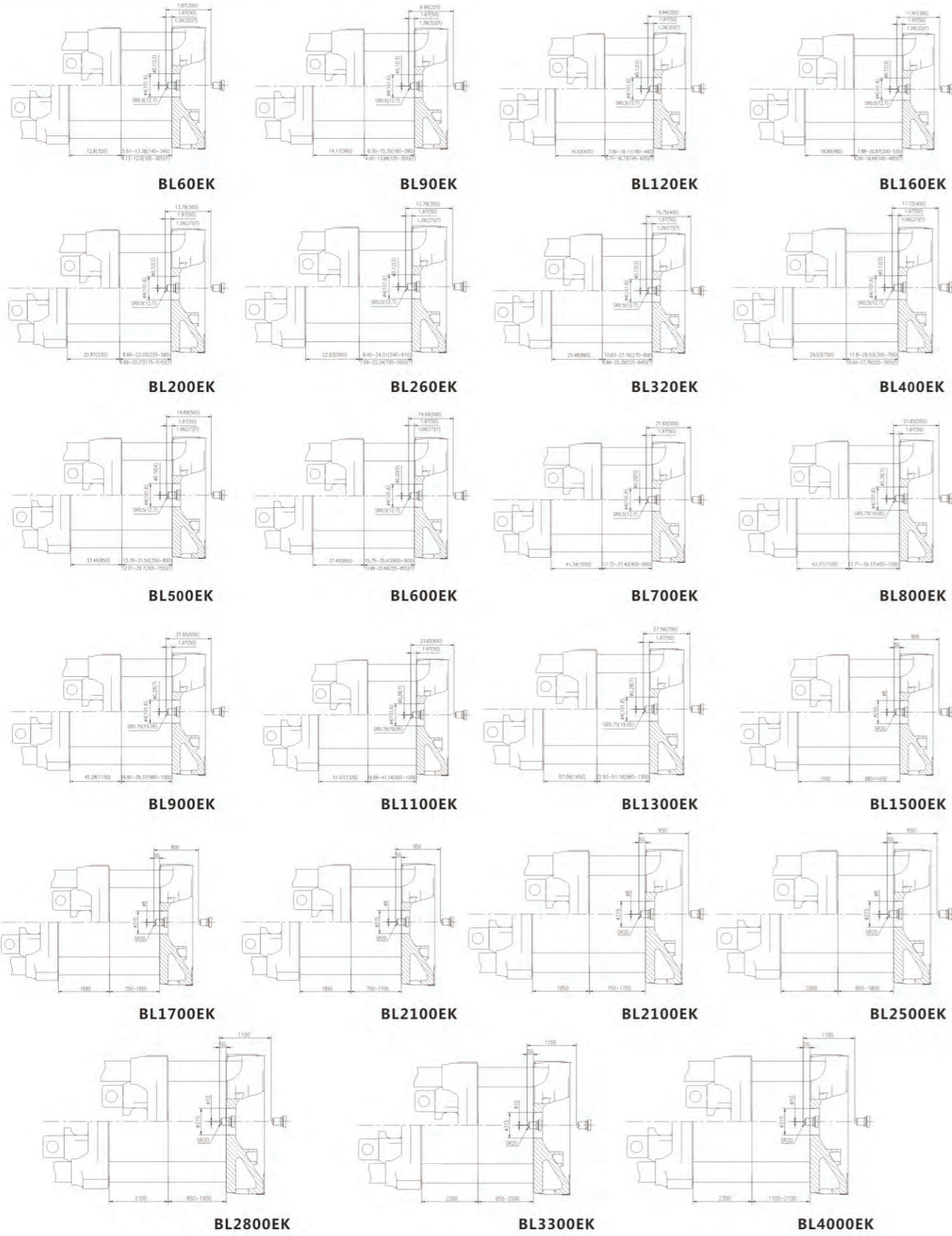


Large model clamping structure

1. Wide template design
2. External bending clamping structure
3. High rigid guided supporting structure
4. Big space between tie-bars
5. Center Clamping
6. Big stroke opening, Longer ejector stroke



Platen dimension lateral drawing



Platen dimension obversel drawing

