

EVO Injection Unit Configuration

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Technical Data

DESCRIPTION	UNIT	BL100EKW-EVolution					
International specification		C340			C460		
Screw specification		A	B	C	A	B	C
Screw diameter	mm	32	36	40	36	40	45
L/D ratio		23	23	20.7	23	23	20.4
Theoretical injection capacity	cm³	145	183	226	203	251	318
Shot weight (PS)	g	133	168	208	187	231	292
	oz	4.7	6	7.3	6.6	8.2	10.3
Max. injection rate into Air	cm³/s	161	203	251	203	251	318
Max. injection rate into Air	g/s	146	185	228	185	228	289
Injection pressure	Mpa	236	186	151	228	185	146
Theoretical plasticizing speed	g/S(PS)	13	18	24	19	25	35
Injection stroke	mm	180			200		
Max. injection speed	mm/s	200			200		
Max. screw speed	r/min	290			290		
Sys. Pressure	MPa	18.5			18.5		
Charging Motor	kW	10.5			10.5		
Pump Motor	kW	17.1			22.4		
Number of Motors	PC	2			2		
Heater power	kW	7	7.6		7.8	9.45	
Number of temp. control zones		3+1			3+1		
Clamping force	kN	1000					
Opening stroke	mm	335					
Space between tie bar	mm x mm	405×325					
Min. mould height	mm	150					
Max. mould height	mm	390					
Max. day light	mm	725					
Ejector stroke	mm	110					
Ejector force forward	kN	34					
Ejector force backward	kN	22					
Number of ejector bar	PC	5					
Energy consumption level	kN.h/kg	≤0.4			≤0.4		
Oil tank capacity	L	95			95		
Machine dimensions (L×W×H)	m x m x m	4.5x1.3x2.11			4.5x1.3x2.11		

BL120EKW-EVolution								
C340			C460			C630		
A	B	C	A	B	C	A	B	C
32	36	40	36	40	45	40	45	50
23	23	20.7	23	23	20.4	23	23	20.7
145	183	226	203	251	318	283	358	442
133	168	208	187	231	292	260	329	406
4.7	6	7.3	6.6	8.2	10.3	9.2	11.6	14.4
161	203	251	203	251	318	252	318	393
146	185	228	185	228	289	229	290	358
236	186	151	228	185	146	223	176	142
13	18	24	19	25	35	21	29	39
180			200			225		
200			200			200		
290			290			260		
18.5			18.5			18.5		
10.5			10.5			17.2		
17.1			22.4			30.3		
2			2			2		
7	7.6		7.8	9.45		11.2	14.85	
3+1			3+1			3+1		
1200								
380								
460×360								
160								
450								
830								
120								
34								
22								
5								
≤0.4			≤0.4			≤0.4		
115			115			115		
4.8x1.36x2.15			4.8x1.36x2.15			4.9x1.36x2.15		

Technical Data

DESCRIPTION	UNIT	BL160EKW-EVolution								
International specification		C460			C630			C870		
Screw specification		A	B	C	A	B	C	A	B	C
Screw diameter	mm	36	40	45	40	45	50	45	50	55
L/D ratio		23	23	20.4	23	23	20.7	23	23	20.9
Theoretical injection capacity	cm³	203	251	318	283	358	442	397	491	594
Shot weight (PS)	g	187	231	292	260	328	406	366	451	546
	oz	6.6	8.2	10.3	9.2	11.6	14.4	12.9	15.9	19.3
Max. injection rate into Air	cm³/s	203	251	318	252	318	393	318	392	475
Max. injection rate into Air	g/s	185	228	289	229	290	358	289	357	432
Injection pressure	Mpa	228	185	146	223	176	142	219	178	147
Theoretical plasticizing speed	g/S(PS)	19	25	35	21	29	39	29	39	50
Injection stroke	mm	200			225			250		
Max. injection speed	mm/s	200			200			200		
Max. screw speed	r/min	290			260			260		
Sys. Pressure	MPa	18.5			18.5			18.5		
Charging Motor	kW	10.5			17.2			17.2		
Pump Motor	kW	22.4			30.3			37		
Number of Motors	PC	2			2			2		
Heater power	kW	7.8	9.45		11.2	14.85		11.45	14.85	
Number of temp. control zones		3+1			3+1			3+1		
Clamping force	kN	1600								
Opening stroke	mm	450								
Space between tie bar	mm x mm	510×410								
Min. mould height	mm	180								
Max. mould height	mm	510								
Max. day light	mm	960								
Ejector stroke	mm	140								
Ejector force forward	kN	49								
Ejector force backward	kN	37								
Number of ejector bar	PC	5								
Energy consumption level	kN.h/kg	≤0.4			≤0.4			≤0.4		
Oil tank capacity	L	115			115			115		
Machine dimensions (L×W×H)	m x m x m	5.1x1.45x2.2			5.2x1.45x2.2			5.3x1.45x2.2		

BL200EKW-EVolution								
C630			C870			C1200		
A	B	C	A	B	C	A	B	C
40	45	50	45	50	55	50	55	60
23	23	20.7	23	23	20.9	23	23	21.1
283	358	442	397	491	594	530	641	763
260	329	406	366	451	546	487	590	702
9.2	11.6	14.4	12.9	15.9	19.3	17.2	20.8	24.8
252	318	393	318	392	475	392	475	565
229	290	358	289	357	432	357	432	514
223	176	142	219	178	147	226	187	157
21	29	39	29	39	50	29	39	50
225			250			270		
200			200			200		
260			260			220		
18.5			18.5			17.5		
17.2			17.2			17.2		
30.3			37			47.2		
2			2			2		
11.2	14.85		11.45	14.85		11.45	14.85	
3+1			3+1			4+1		
2000								
500								
560×460								
200								
550								
1050								
150								
49								
37								
5								
≤0.4			≤0.4			≤0.4		
155			155			155		
5.75x1.52x2.4			5.75x1.52x2.4			5.9x1.52x2.4		

Technical Data

DESCRIPTION	UNIT	BL250EKW-EVolution								
International specification		C870			C1200			C1480		
Screw specification		A	B	C	A	B	C	A	B	C
Screw diameter	mm	45	50	55	50	55	60	22	60	65
L/D ratio		23	23	20.9	23	23	21.1	23	23	21.2
Theoretical injection capacity	cm³	397	491	594	530	641	763	689	820	962
Shot weight (PS)	g	366	451	546	487	590	702	634	754	885
	oz	12.9	15.9	19.3	17.2	20.8	24.8	22.4	26.6	31.3
Max. injection rate into Air	cm³/s	318	392	475	392	475	565	475	565	663
Max. injection rate into Air	g/s	289	357	432	357	432	514	432	514	604
Injection pressure	Mpa	219	178	147	226	187	157	216	181	154
Theoretical plasticizing speed	g/S(PS)	29	39	50	29	39	50	46	58	73
Injection stroke	mm	250			270			290		
Max. injection speed	mm/s	200			200			200		
Max. screw speed	r/min	220			220			220		
Sys. Pressure	MPa	18.5			17.5			18.5		
Charging Motor	kW	17.2			17.2			21.4		
Pump Motor	kW	37			47.2			56.1		
Number of Motors	PC	2			2			2		
Heater power	kW	11.45	14.85		11.45	14.85		18.5	21.3	
Number of temp. control zones		3+1			4+1			4+1		
Clamping force	kN	2500								
Opening stroke	mm	570								
Space between tie bar	mm x mm	605×505								
Min. mould height	mm	220								
Max. mould height	mm	600								
Max. day light	mm	1170								
Ejector stroke	mm	150								
Ejector force forward	kN	67								
Ejector force backward	kN	39								
Number of ejector bar	PC	9								
Energy consumption level	kN.h/kg	≤0.4			≤0.4			≤0.4		
Oil tank capacity	L	200			200			200		
Machine dimensions (L×W×H)	m x m x m	6x1.6x2.43			6.1x1.6x2.43			6.2x1.6x2.43		

BL300EKW-EVolution								
C1200			C1480			C2060		
A	B	C	A	B	C	A	B	C
50	55	60	55	60	65	60	65	75
23	23	21.1	23	23	21.2	23	23	19.9
530	641	763	689	820	962	918	1078	1435
487	590	702	634	754	885	845	992	1320
17.2	20.8	24.8	22.4	26.6	31.3	29.9	35	46.7
396	479	570	475	565	663	565	664	883
360	436	518	432	514	604	515	604	804
226	187	157	216	181	154	208	177	133
29	39	50	46	58	73	58	73	106
270			290			325		
202			200			200		
220			220			220		
17.5			18.5			18		
17.2			21.4			30.3		
47.2			56.1			65		
2			2			2		
11.45	14.85		18.5	21.3		24.65	26.25	
4+1			4+1			4+1		
3000								
610								
705×575								
250								
660								
1270								
190								
67								
39								
13								
≤0.4			≤0.4			≤0.4		
200			200			200		
6.6x1.78x2.5			6.6x1.78x2.5			6.7x1.78x2.5		

Technical Data

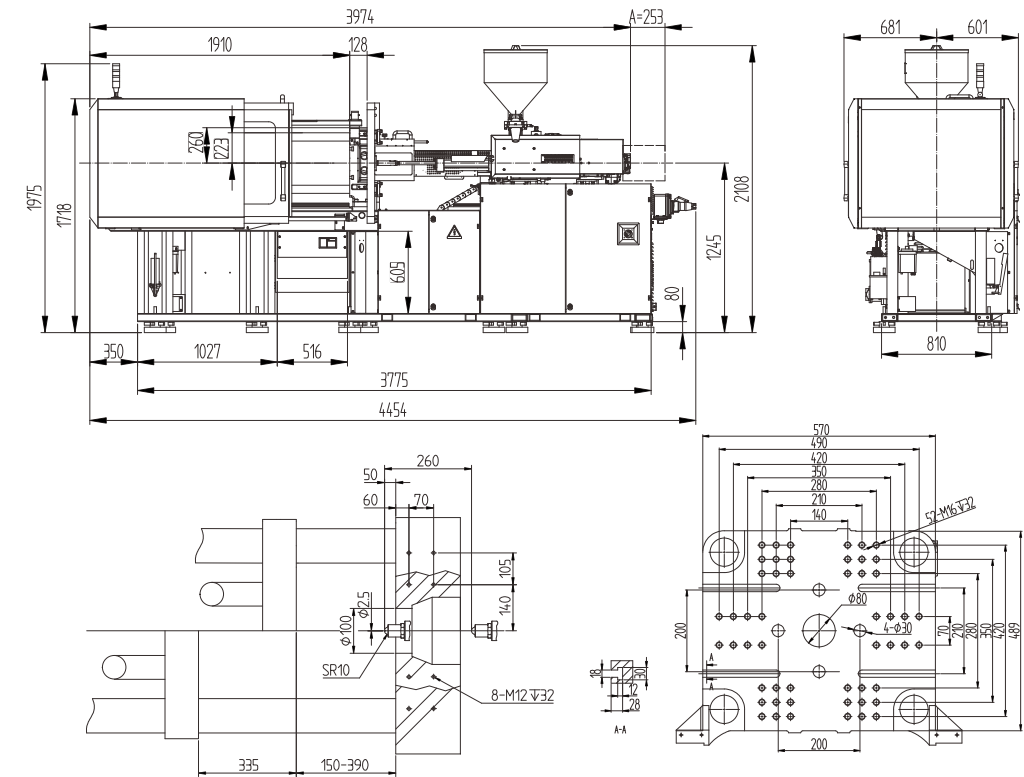
DESCRIPTION	UNIT	BL360EKW-EVolution								
International specification		C1480			C2060			C2500		
Screw specification		A	B	C	A	B	C	A	B	C
Screw diameter	mm	50	55	60	60	65	75	65	70	80
L/D ratio		23	23	21.2	23	23	19.9	23	23	20.1
Theoretical injection capacity	cm³	689	820	962	918	1078	1435	1194	1385	1809
Shot weight (PS)	g	634	754	885	845	992	1320	1098	1274	1664
	oz	22.4	26.6	31.3	29.9	35	46.7	38.8	45	58.8
Max. injection rate into Air	cm³/s	475	565	663	565	664	883	611	709	926
Max. injection rate into Air	g/s	432	514	604	515	604	804	556	645	843
Injection pressure	Mpa	216	181	154	208	177	133	207	179	137
Theoretical plasticizing speed	g/S(PS)	46	58	73	58	73	106	73	82	114
Injection stroke	mm	290			325			360		
Max. injection speed	mm/s	200			200			184		
Max. screw speed	r/min	220			220			220		
Sys. Pressure	MPa	18.5			18			18.0		
Charging Motor	kW	21.4			30.3			30.3		
Pump Motor	kW	56.1			65			75.4		
Number of Motors	PC	2			2			2		
Heater power	kW	18.5	21.3		21.8	26.25		24	26.9	
Number of temp. control zones		4+1			4+1			4+1		
Clamping force	kN	3600								
Opening stroke	mm	660								
Space between tie bar	mm x mm	755×605								
Min. mould height	mm	250								
Max. mould height	mm	730								
Max. day light	mm	1390								
Ejector stroke	mm	190								
Ejector force forward	kN	123								
Ejector force backward	kN	82								
Number of ejector bar	PC	13								
Energy consumption level	kN.h/kg	≤0.4			≤0.4			≤0.4		
Oil tank capacity	L	280			280			280		
Machine dimensions (L×W×H)	m x m x m	7.25x1.95x2.57			7.25x1.95x2.57			7.4x1.95x2.57		

BL400EKW-EVolution								
C2060			C2500			C3000		
A	B	C	A	B	C	A	B	C
60	65	75	65	70	80	70	75	85
23	23	19.9	23	23	20.1	23	23	20.3
918	1078	1435	1194	1385	1809	1423	1634	2099
845	992	1320	1098	1274	1664	1309	1503	1931
29.9	35	46.7	38.8	45	58.8	46.3	53.1	68.2
565	664	883	611	709	926	690	792	1017
515	604	804	556	645	843	628	721	926
208	177	133	207	179	137	213	186	144
58	73	706	73	82	114	84	101	142
325			360			370		
200			184			179		
220			220			220		
18			18			18		
30.3			30.3			40.9		
65			75.1			75.1		
2			2			2		
21.8	26.25		24	25.9		27	33	
4+1			4+1			4+1		
4000								
710								
805×625								
270								
730								
1440								
190								
123								
82								
13								
≤0.4			≤0.4			≤0.4		
280			280			280		
7.3x1.95x2.6			7.4x1.95x2.6			7.5x1.95x2.6		

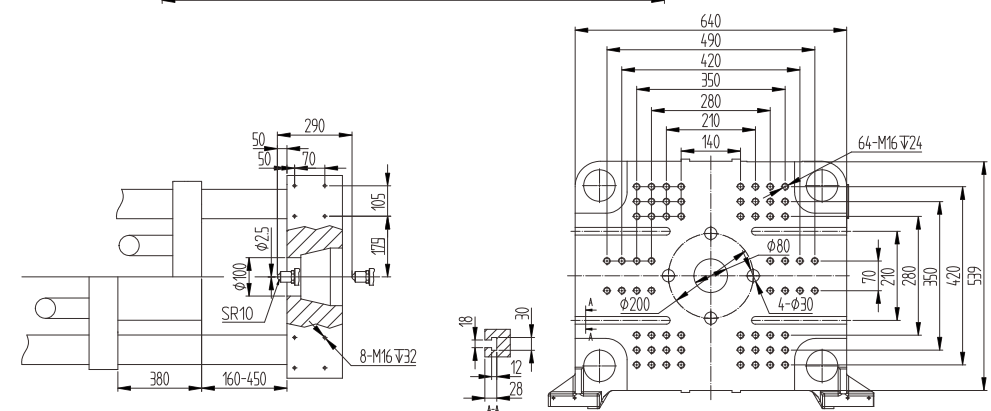
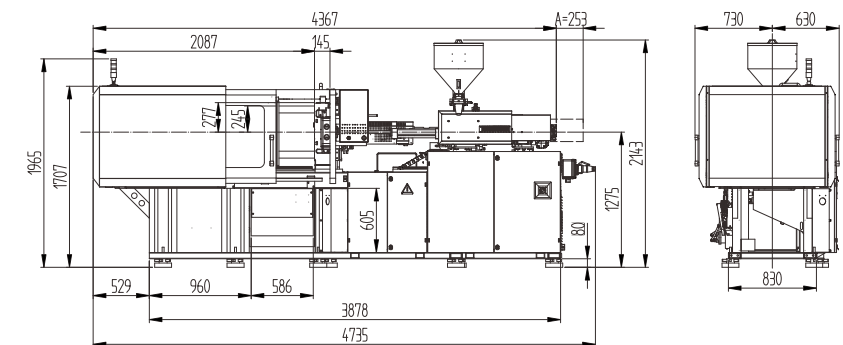
Technical Data

DESCRIPTION	UNIT	BL470EKW-EVolution								
International specification		C2500			C3000			C3700		
Screw specification		A	B	C	A	B	C	A	B	C
Screw diameter	mm	65	70	80	70	75	85	75	80	90
L/D ratio		23	23	20.1	23	23	20.3	23	23	20.4
Theoretical injection capacity	cm³	1194	1385	1809	1423	1634	2099	1832	2085	2639
Shot weight (PS)	g	1098	1274	1664	1309	1503	1931	1686	1918	2428
	oz	38.8	45	58.8	46.3	53.1	68.2	59.6	67.8	85.8
Max. injection rate into Air	cm³/s	611	709	926	690	792	1017	812	924	1170
Max. injection rate into Air	g/s	556	645	843	628	721	926	739	841	1065
Injection pressure	Mpa	207	179	137	213	186	144	205	180	142
Theoretical plasticizing speed	g/S(PS)	73	82	114	84	101	142	99	117	159
Injection stroke	mm	360			370			415		
Max. injection speed	mm/s	184			179			184		
Max. screw speed	r/min	220			220			220		
Sys. Pressure	MPa	18			18			18.0		
Charging Motor	kW	30.3			40.9			70.7		
Pump Motor	kW	75.1			75.1			92.6		
Number of Motors	PC	2			2			2		
Heater power	kW	24	25.9		27	33		31.35	32.95	
Number of temp. control zones		4+1			4+1			5+1		
Clamping force	kN	4700								
Opening stroke	mm	800								
Space between tie bar	mm x mm	855×655								
Min. mould height	mm	330								
Max. mould height	mm	810								
Max. day light	mm	1610								
Ejector stroke	mm	210								
Ejector force forward	kN	123								
Ejector force backward	kN	82								
Number of ejector bar	PC	13								
Energy consumption level	kN.h/kg	≤0.4			≤0.4			≤0.4		
Oil tank capacity	L	350			350			470		
Machine dimensions (L×W×H)	m x m x m	7.91x2.12x2.5			7.91x2.12x2.5			8x2.12x2.5		

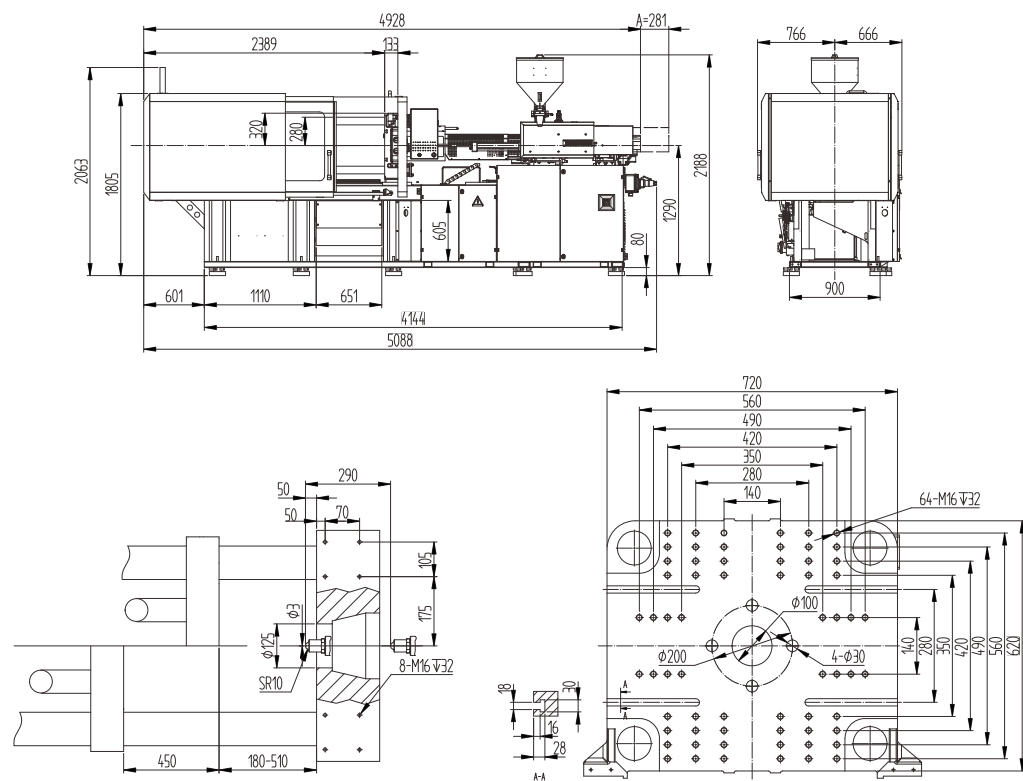
Platen Dimensions & Machine Dimensions



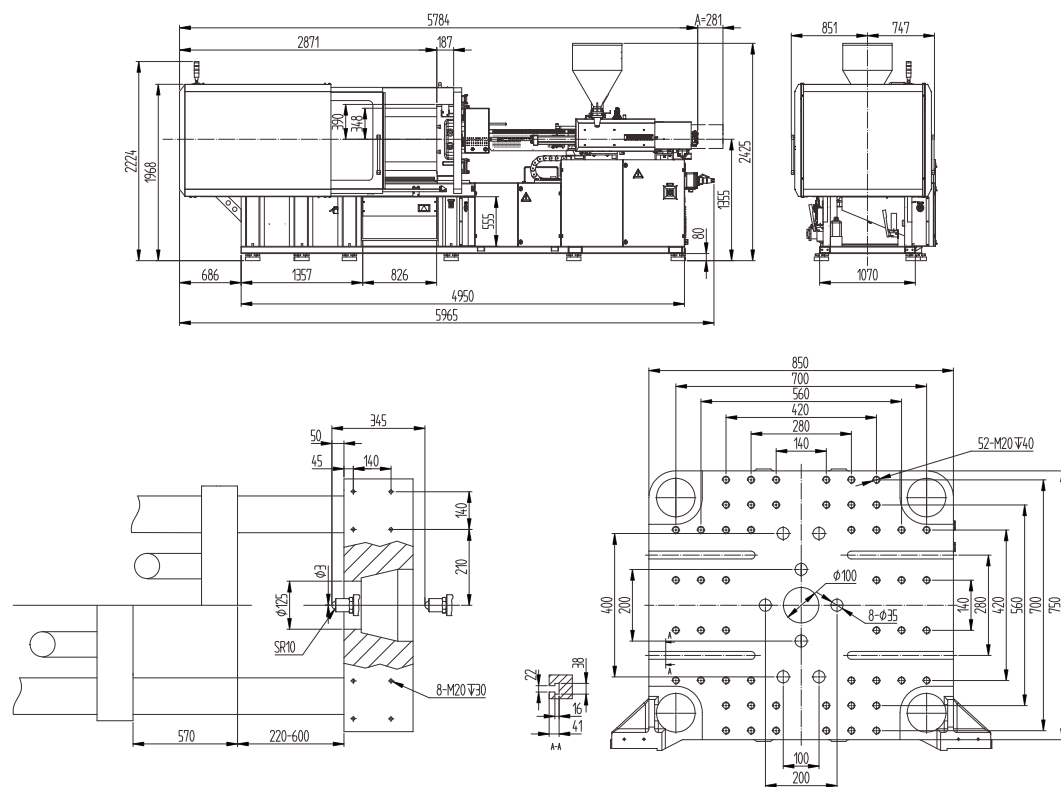
BL100EKW-EVolution



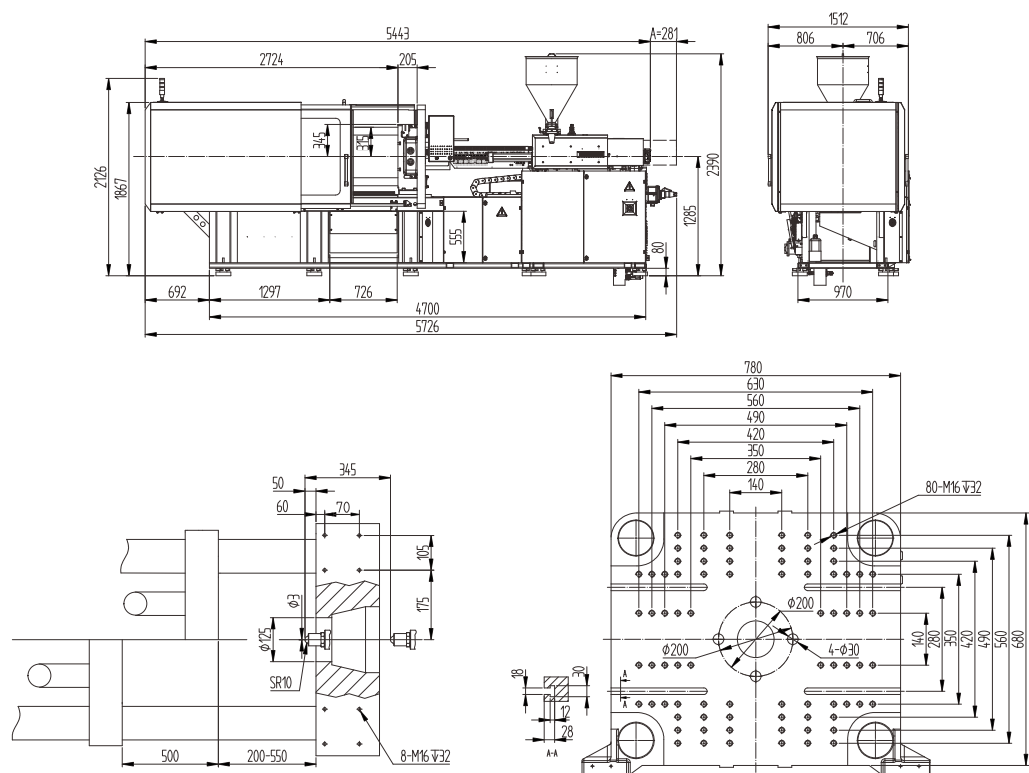
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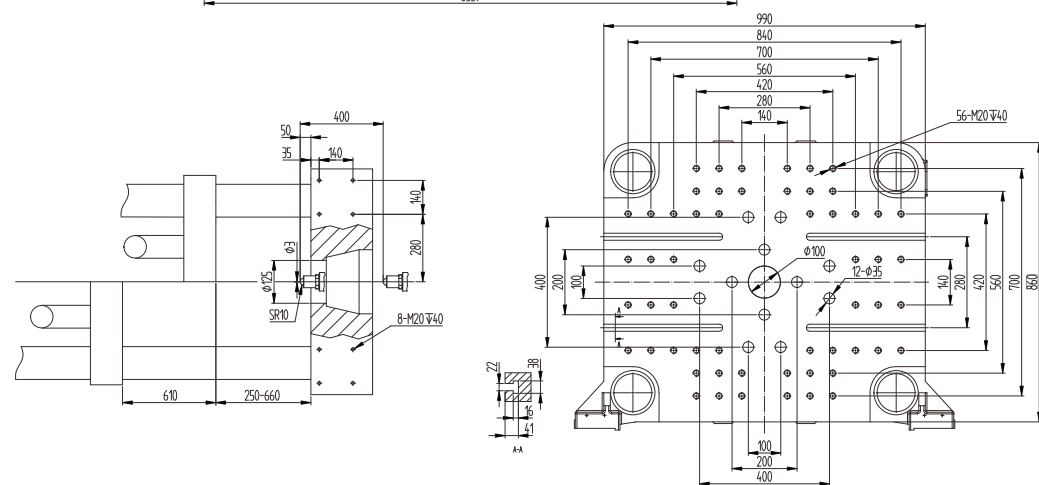
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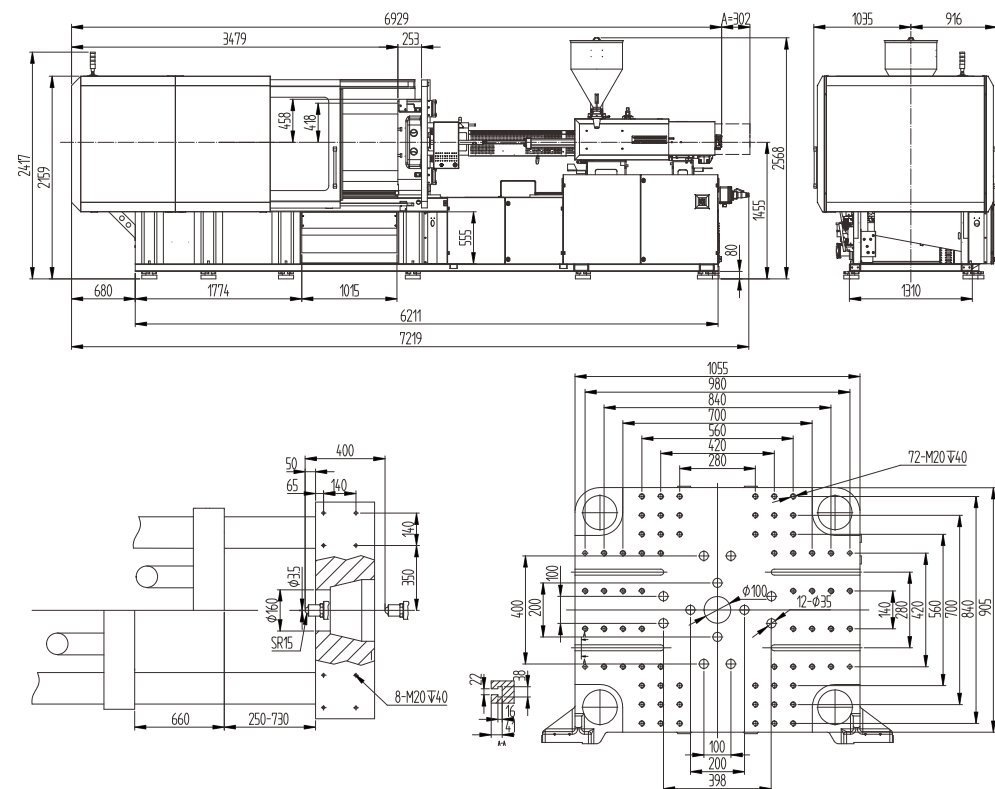
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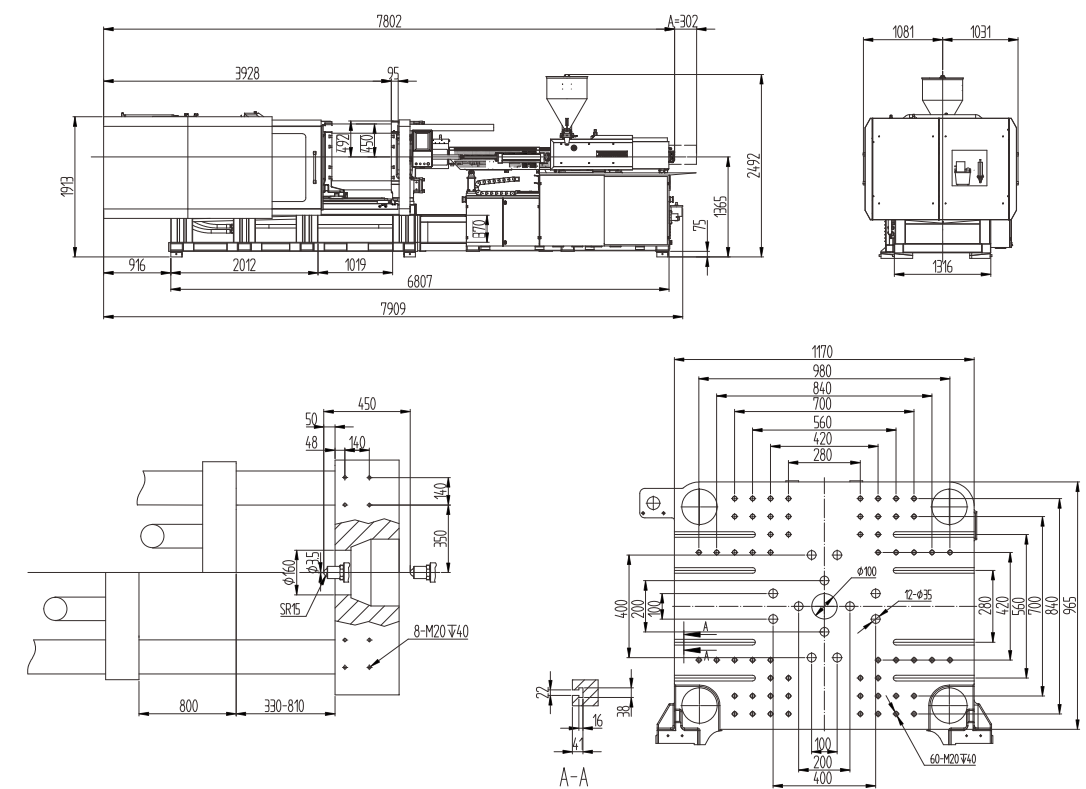
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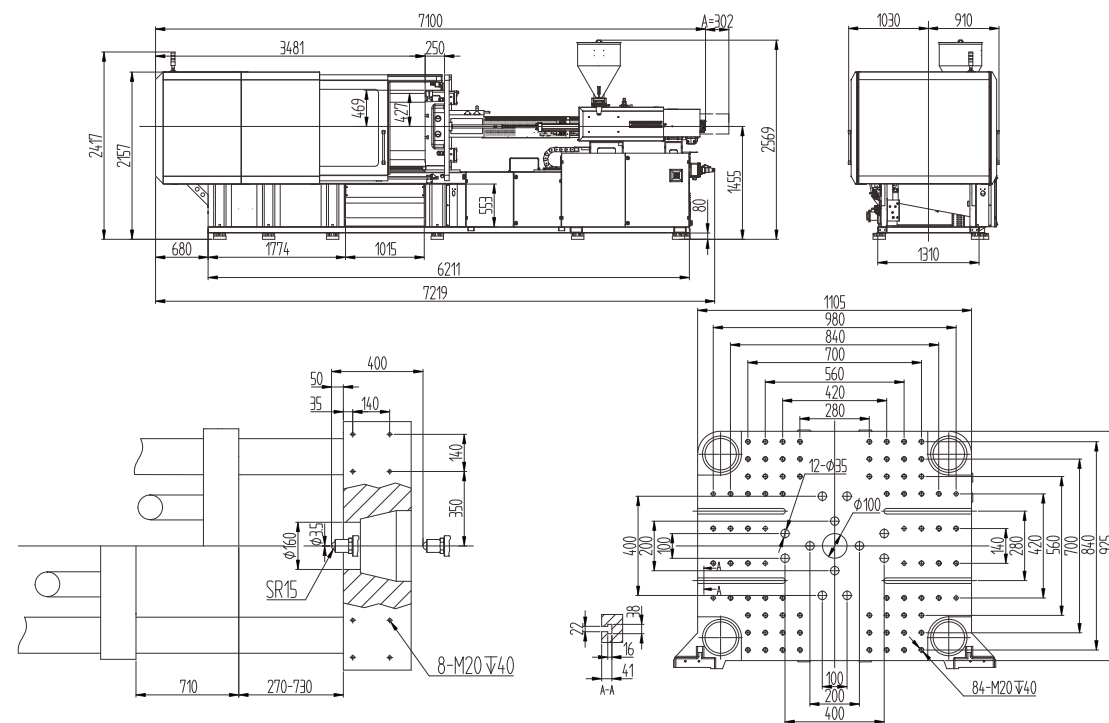
BL300EKW-EVolution



BL360EKW-EVolution



BL470EKW-EVolution



BL400EKW-EVolution