

EKS Series



The Passionate Pursuit of Perfection

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THIS VERSION WAS PRINTED IN JULY 2019,
ANY DIFFERENCE SPECIFICATION FROM OLD VERSION SHOULD BE SUBJECT TO THIS VERSION.

EKS Series

**EKS Hydraulic Servo Energy
Saving Injection Moulding Machine**



Injection Moulding Machine

ООО "ВИВТЕХ"

127254, Москва, ул. Руставели д. 14, стр. 6 Тел./факс +7 (495) 755-91-45 доб. 103
info@vivtech.ru www.vivtech.ru

Technical Data

DESCRIPTION	UNIT
International specification	
Screw specification	
Screw diameter	mm
L/D ratio	
Theoretical injection capacity	cm³
Shot weight (PS)	g
	OZ
Injection rate into Air	cm³/s
Injection pressure	MPa
Injection stroke	mm
Max. injection speed	mm/s
Screw speed	r/min
Clamping force	kN
Opening stroke	mm
Space between tie bar	mmXmm
Min. mould height	mm
Max. mould height	mm
Max. Daylight	mm
Ejector stroke	mm
Ejector force forward	kN
Ejector force backward	kN
Number of ejector rod	PCS
Sys. Pressure	MPa
Pump Motor	kW
Heater power	kW
Number of temp. control zones	
Hoper capacity	kg
Oil tank capacity	L
Machine dimensions (L×W×H)	m×m×m
Machine weight	ton

BL70EKS/C170				BL100EKS/C340				BL140EKS/C460			
170				340				460			
AA	A	B	C	AA	A	B	C	AA	A	B	C
22	25	28	32	28	32	36	40	32	36	40	45
20	23	23	23	20	23	23	23	20	23	23	23
55	71	89	117	111	145	183	226	161	203	251	318
51	65	82	107	102	133	168	208	148	187	231	292
1.8	2.3	2.9	3.8	3.6	4.7	6.0	7.3	5.2	6.6	8.2	10.3
61	78	98	128	78	102	130	160	105	133	164	208
318	246	196	150	313	239	189	153	291	230	186	147
145				180				200			
160				127				131			
300				280				250			
700				1000				1400			
320				360				420			
360X330				410X360				460X410			
140				160				180			
370				420				470			
690				780				890			
70				100				130			
31				34				49			
20				22				37			
5				5				5			
17.5				17.5				17.5			
8.9				13.4				16.4			
4.6	5.4	6.1	6.9	5.8	6.8	7.9	9	7.8	8.8	10	11.3
3+1				3+1				3+1			
25				25				25			
120				150				180			
3.5×1.2×2.1				4.6×1.4×2.1				5×1.5×2.1			
3.1				3.7				4.5			

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Ejector force forward	kN
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Pump Motor	kW
Heater power	kW
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Hoper capacity	kg
Oil tank capacity	L
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Machine weight	ton

ООО "ВИВТЕХ"

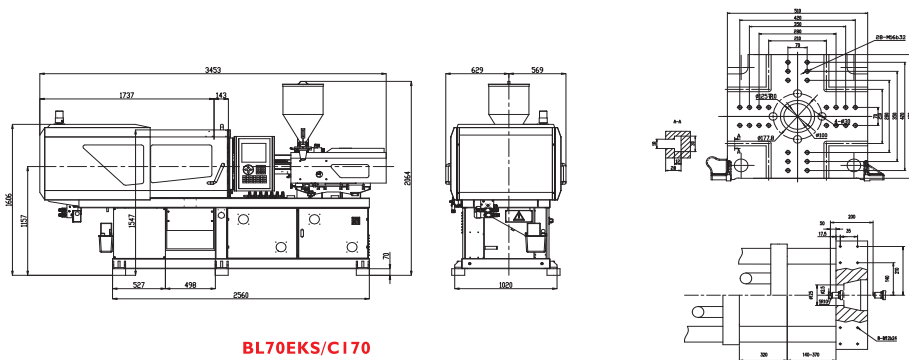
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A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
60	65	75	80	70	75	85	90	75	80	90	95	80	85	90	100	80	90	100	110	90	100	110	120
23	23	23	21.3	23	23	23	21.5	23	23	23	21.7	23	23	23	20.7	23	23	23	21	23	23	23	21
918	1078	1435	1633	1423	1634	2099	2353	1832	2085	2639	2940	2286	2581	2893	3572	2512	3179	3925	4749	3465	4278	5177	6161
845	992	1320	1502	1309	1503	1931	2164	1686	1918	2428	2705	2103	2374	2662	3286	2311	2925	3611	4369	3188	3936	4763	5668
29.9	35.0	46.7	53.1	46.2	53.1	68.2	76.5	59.6	67.8	85.8	95.6	74.3	83.9	94.1	116.1	81.7	103.4	127.6	154.4	112.7	139.1	168.3	200.3
271	318	423	481	361	415	532	597	451	513	649	723	510	576	646	798	547	692	854	1034	666	822	995	1184
226	193	145	127	212	185	144	128	204	179	142	127	210	186	166	134	230	181	147	121	230	186	154	129
325				370				415				455				500				545			
96				94				102				102				106				105			
175				164				158				153				139				122			
3500				4700				5500				6500				7500				8500			
660				750				850				950				1050				1100			
710X660				810X760				860X800				960X860				1060X960				1120X1020			
270				300				350				400				450				450			
720				820				880				1000				1100				1150			
1380				1570				1730				1950				2150				2250			
190				220				220				240				270				300			
68				116				116				152				198				198			
44				72				72				107				129				129			
13				17				17				21				21				21			
17.5				17.5				17.5				17.5				17.5				17.5			
40.9				50.7				16.4 + 40.9				16.4 + 50.7				26.7 + 50.7				50.7 + 50.7			
21.8	24	26.2	26.2	27	29.2	31.4	31.4	32	35.5	37.5	37.5	36	38.3	40.6	40.6	43	48.5	54	59.5	50	54.2	58.4	58.4
4+1				4+1				5+1				5+1				5+1				6+1			
50				50				100				100				100				100			
420				500				750				850				1000				1200			
7.4×2×2.5				8.1×2.2×2.5				9×2.3×2.9				9.7×2.4×3				10.4×2.6×3.1				11.5×2.7×3.1			
12.5				17				20				25				31				40			

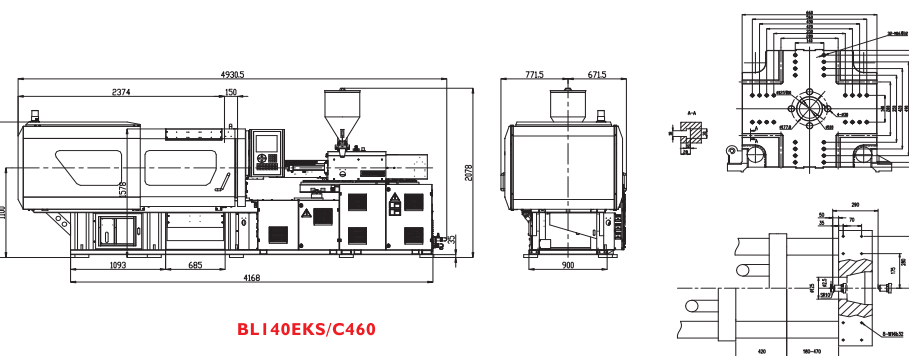
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100	110	120	130	100	110	120	130	110	120	130	140	120	135	145	155	120	135	145	155	140	150	160	170
23	23	23	21.2	23	23	23	21.2	23	23	23	21.3	23	23	23	21.5	23	23	23	21.5	23	23	23	21.6
4671	5652	6726	7894	4671	5652	6726	7894	6079	7235	8491	9847	8195	10372	11966	13673	8195	10372	11966	13673	12078	13865	15775	17809
4297	5199	6188	7262	4297	5199	6188	7262	5593	6656	7811	9059	7540	9543	11009	12579	7540	9543	11009	12579	11112	12756	14513	16384
151.8	183.7	218.7	256.6	151.8	183.7	218.7	256.6	197.6	235.2	276.0	320.1	266.4	337.2	389.0	444.5	266.4	337.2	389.0	444.5	392.6	450.7	512.8	578.9
820	992	1180	1385	820	992	1180	1385	969	1153	1353	1569	1105	1399	1614	1844	1105	1399	1614	1844	1361	1563	1778	2007
215	178	149	127	215	178	149	127	221	186	158	137	236	186	161	141	236	186	161	141	214	186	164	145
595				595				640				725				725				785			
104				104				102				98				98				88			
114				114				108				101				101				80			
10000				12000				14000				16000				18500				22000			
1150				1320				1450				1550				1680				1850			
1160X1060				1260X1120				1420X1220				1520X1320				1620X1420				1720X1520			
500				550				650				700				750				750			
1200				1300				1450				1550				1650				1750			
2350				2620				2900				3100				3330				3600			
300				350				350				400				400				450			
222				222				332				332				429				429			
139				139				249				249				330				330			
21				21				29				29				29				33			
17.5				17.5				17.5				17.5				17.5				17.5			
20.5+40.9+50.7				20.5+40.9+50.7				40.9+50.7+50.7				40.9+40.9+40.9+50.7				40.9+40.9+40.9+50.7				40.9+50.7+50.7+50.7			
56.2	60.4	62.4	62.4	56.2	60.4	62.4	62.4	74.6	78.1	81.6	81.6	70.7	76.5	80.7	80.7	89.9	95.7	99.8	99.8	112.1	116.4	120.7	120.7
6+1				6+1				7+1				7+1				7+1				8+1			
200				200				200				200				200				400			
1400				1400				1650				2250				2250				2500			
10.2×2.8×3				11.1×3.3×4.2				12.1×3.5×4.3				13.1×3.6×4.3				14×3.7×4.5				15.9×4.1×4.6			
45				52				67				94				106				132			

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36000				49000				80000				120000			
A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
160	170	185	195	170	190	200	220	210	220	240	260	220	240	260	270
23	23	23	21.7	23	23	23	21.4	23	23	23	22	23	23	23	22.1
18589	20985	24852	27611	23707	29614	32813	39704	41888	45973	54711	64210	57751	68728	80660	86984
17102	19306	22863	25402	21811	27245	30188	36527	38537	42295	50334	59073	53131	63230	74207	80026
604.3	682.2	807.9	897.6	770.7	962.7	1066.7	1290.7	1361.7	1494.5	1778.6	2087.4	1877.4	2234.3	2622.2	2827.8
1546	1745	2067	2296	1700	2124	2354	2848	2251	2470	2940	3450	2213	2633	3090	3333
198	175	148	133	209	167	151	125	190	174	146	124	208	174	149	138
925				1045				1210				1520			
77				75				65				58			
68				69				60				63			
25000				28000				33000				40000			
2000				2100				2200				2350			
1820X1620				1920X1720				2110X1910				2420X2220			
800				900				1000				1100			
1850				1950				2000				2100			
3850				4050				4200				4450			
500				500				550				600			
429				429				577				577			
330				330				443				443			
33				33				25				25			
17.5				17.5				17.5				17.5			
50.7 + 50.7 + 50.7 + 50.7				50.7 + 50.7 + 50.7 + 50.7 + 26.7				50.7 + 50.7 + 50.7 + 50.7 + 40.9 + 40.9				50.7 + 50.7 + 50.7 + 50.7 + 50.7 + 50.7			
175.8	180.7	188.7	188.7	222.7	233.7	239.5	239.5	222.7	229.1	242.9	242.9	246	259.8	274.8	274.8
8+1				8+1				8+1				8+1			
400				400				400				400			
2750				3000				3500				4000			
17×4.3×4.8				18.6×4.5×5				20.2×4.6×5.1				22.5×5.3×5.4			
160				190				265				320			

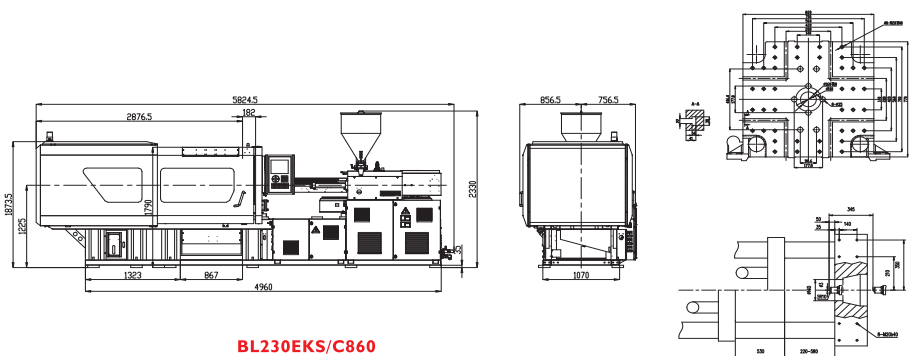
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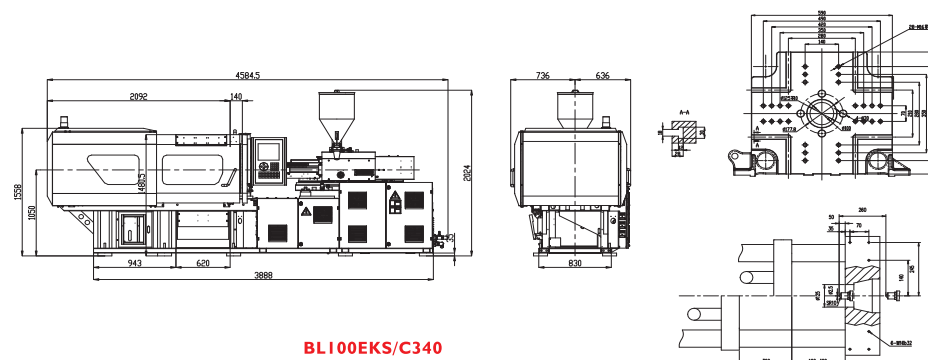
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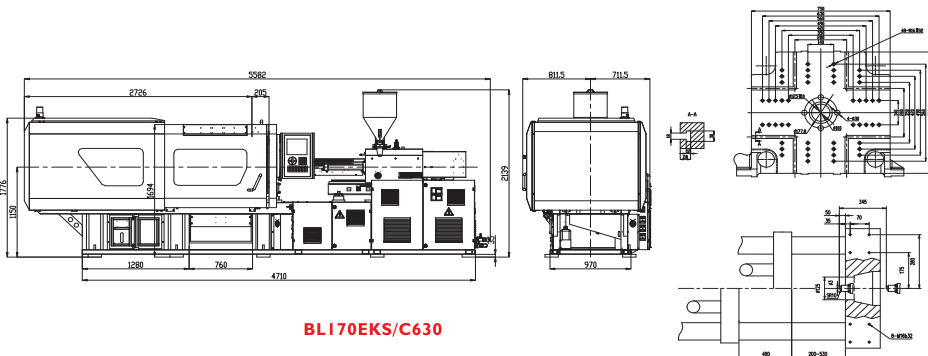
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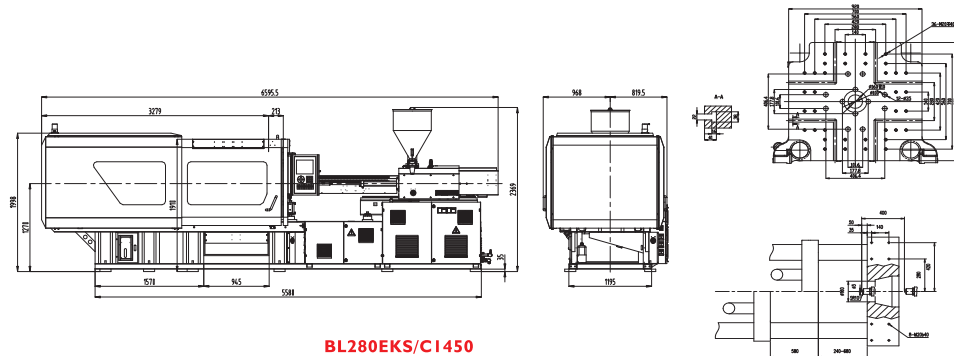
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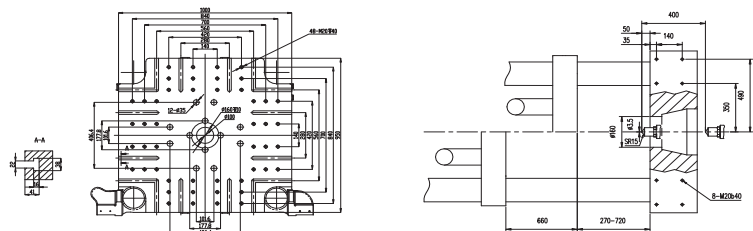


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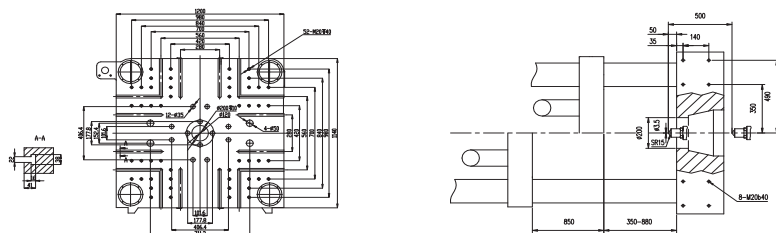
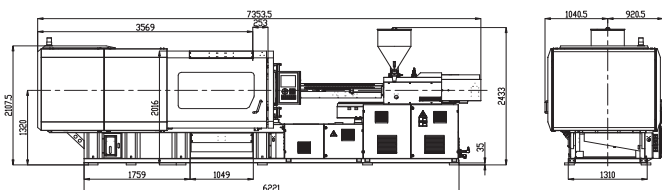
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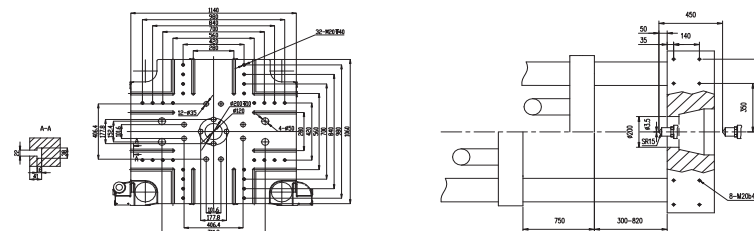
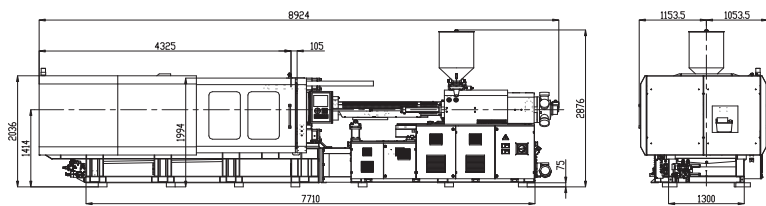
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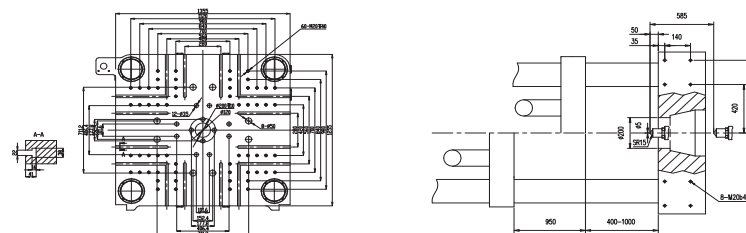
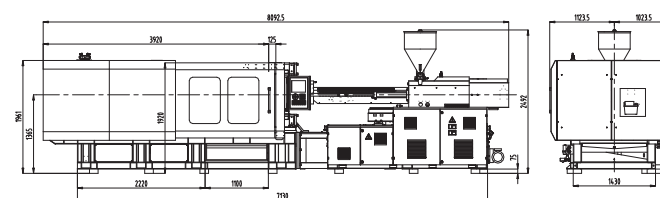
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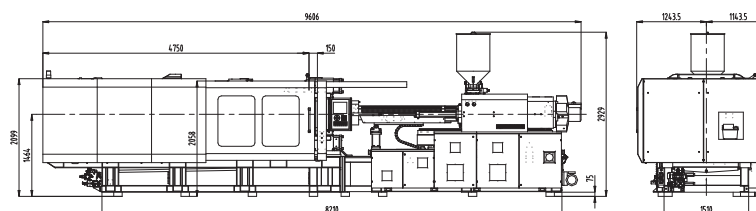
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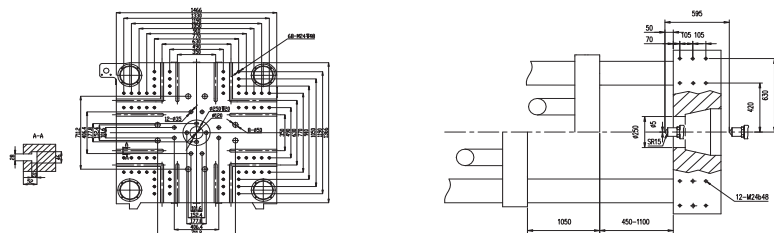
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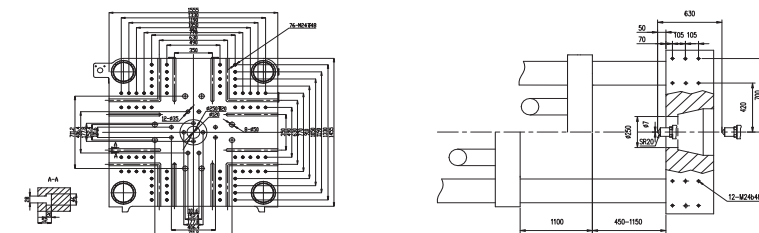
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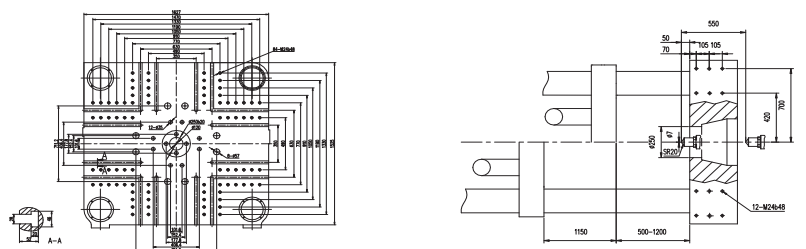
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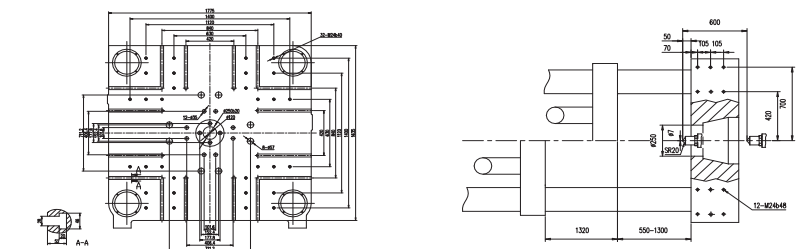
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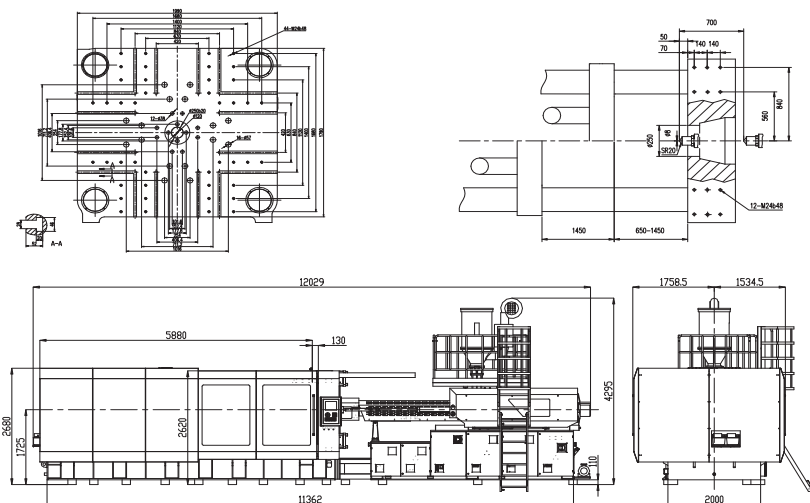


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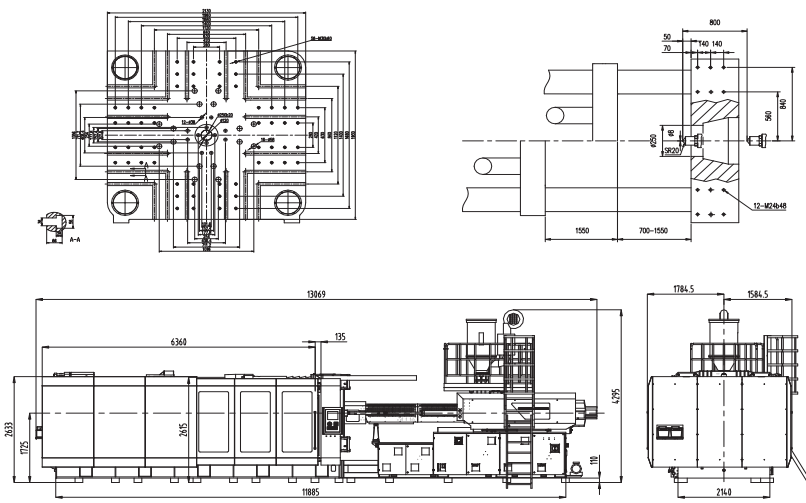
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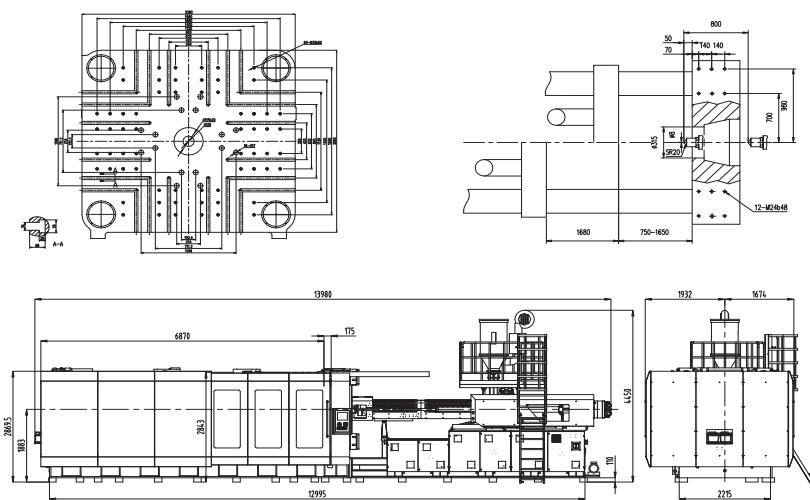
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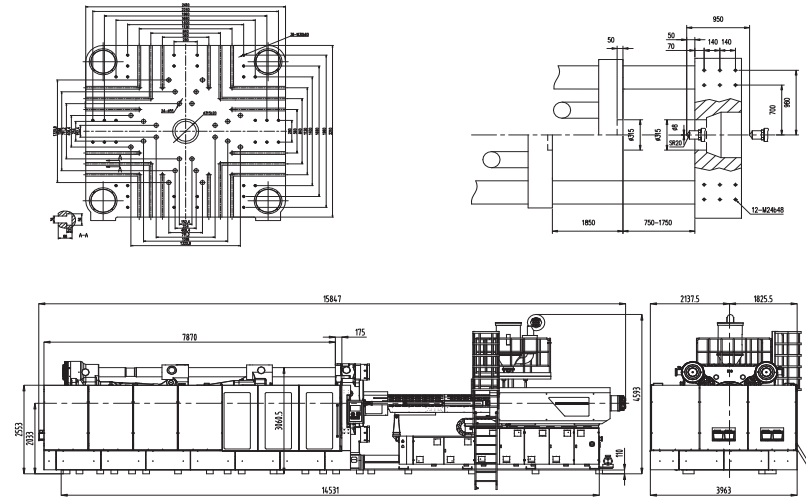
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BLI600EKS/C19300



BLI850EKS/C19300

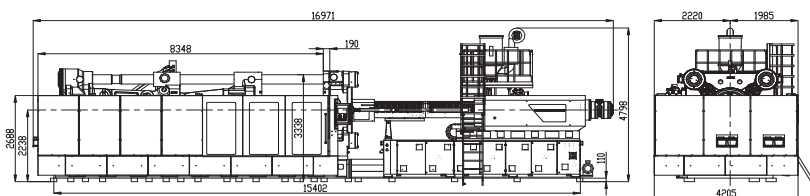
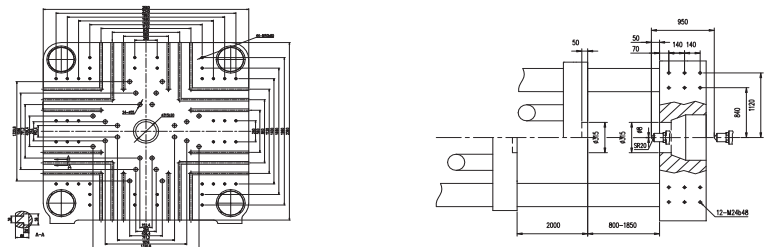


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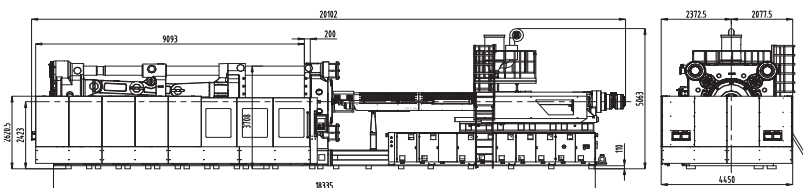
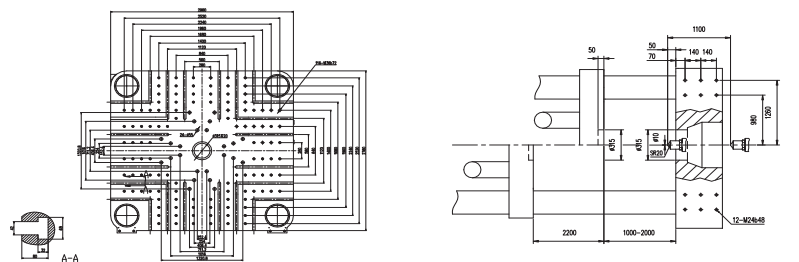
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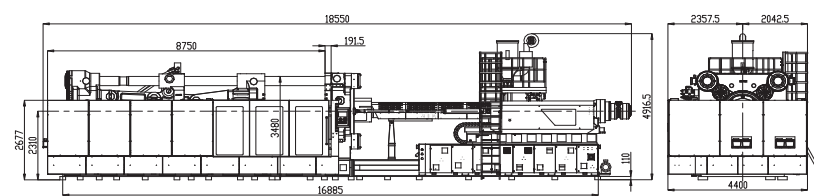
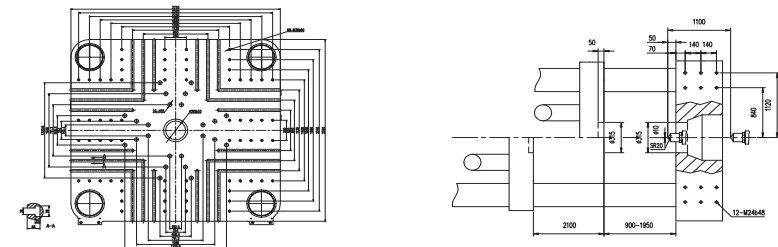
Platen Size



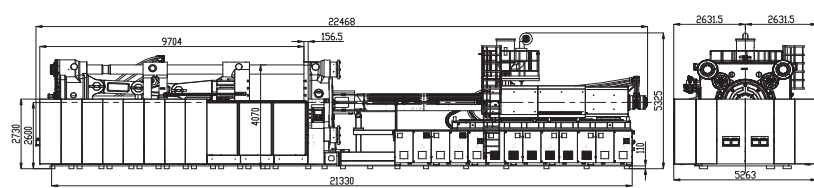
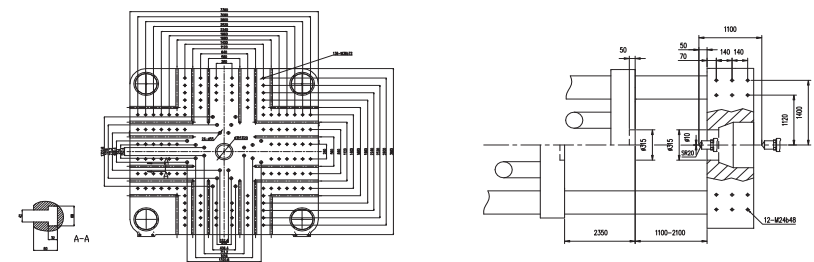
BL2500EKS/C36000



BL3300EKS/C80000



BL2800EKS/C49000



BL4000EKS/C120000

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● Standard ◎ Optional

Clamping Unit	70-470EKS		550-1850EKS		2200-4000EKS	
	Standard	Optional	Standard	Optional	Standard	Optional
Upgraded version of the patented outside five-point mold clamping structure	●		●		●	
Manual lubrication of mold adjustment nut	●		●		●	
Platen /cross head/toggle use qt500-7 high rigid ductile iron	●		●		●	
T slot platen	●		●		●	
The sliding foot of moving plate is supported by linear guideway	●					
Anti-down support in slide shoes of movable platen, high hardness steel strip, reduce the deformation of tie-bar			●		●	
EU2 mold mounting dimension	●		●		●	
Hydraulic and Electric, dual security protection	●		●		●	
hydraulic motor drive gear automatic mould high adjust mould	●		●		●	
Automatic adjustment of clamping force on demand	●		●		●	
EU18 robot postion	●		●		●	
Low pressure mould protect with high precisionlow pressure mould protect with high precision	●		●		●	
Equipped with safety screen in the clamping unit. (1000-4000EKS)			●		●	
Auto-door control and safety switch in its bottom and confirmed button in mold closing.			●		●	
The operation of the open/close mold ,ejection is controlled by a high precision electronic ruler.	●		●		●	
High precision open-close mold positioning control system, positioning repetition accuracy up to ±0.5 mm (patent design)	●		●		●	
Optional:multiple ejector model, saperated setting pressure, speed.	●		●		●	
Equipped with synchronous ejector and core pulling system. (1000-4000EKS)			●		●	
Five process in mold opening and mold closing, adjustable pressure	●		●		●	
Self-detector for volumetric central oil lubrication, equiped with terminal pressure detection	●		●		●	
Fully enclosed safety sheet metal, movable safty door	●		●		●	
Open type security door (1000-4000eks)			●		●	
Safe top cover plate for clamping area (70-280eks)	●					
1 set water manifold	●					
2 sets water manifold			●		●	
Buffer strip for security door	●		●		●	
Magnetic platen		◎		◎		◎
Hydraulic clamper		◎		◎		◎
Moveable tiebar		◎		◎		◎
Mould heat shiled plate		◎		◎		◎
Bigger mould height		◎		◎		◎
Electrolic/dydraulic spin demolding system		◎		◎		◎
Mold lifting rod		◎				
Wider machine cover&door		◎		◎		◎
Heightened frame(70-850eks)		◎				
Central ejector rod reinforce reseting function		◎		◎		◎
Bigger eject force		◎		◎		◎
Bigger eject stroke		◎		◎		◎
Compulsive ejector back device		◎		◎		◎
Machanical safety protection		◎		◎		
Sepecial water manifold(flow meter)		◎		◎		◎
2 air blow		◎		◎		◎
Automatic lubrication of mold adjustment nut		◎		◎		◎
Screw hole platen		◎		◎		◎

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● Standard ◎ Optional

Injection Unit	70-470EKS		550-1850EKS		2200-4000EKS	
	Standard	Optional	Standard	Optional	Standard	Optional
A new type of double cylinder balanced injection system with ultra low oil return resistance	●		●		●	
Linear guide rail support structure	●		●		●	
Low speed but in large torque hydraulic motor	●		●		●	
Design of high quality nitride steel high efficiency plasticizing screw barrel in germany	●		●		●	
Ceramic heating band	●		●		●	
Multi-section pid temperature control for nozzle and barrel	●		●		●	
Fully enclosed heat shield	●		●		●	
Twin injection cylcinder design	●		●		●	
Injection stroke control with precise transducer	●		●		●	
The strimming device of the nozzle	●		●		●	
Time-setting heating function,to start	●		●		●	
Screw anti-fluid device (pull-out/retract/suck back)	●		●		●	
High rigid beam supporting structure	●		●		●	
Six stages of injection,five stages of holding pressure,five stages of charging,pressure/speed can be adjusted	●		●		●	
Screw rotation speed detection	●		●		●	
Auto purge function for cleaning the barrel function	●		●		●	
Proportional back pressure	●		●		●	
Central lubrication in injection unit	●		●		●	
Bearing type mobile hopper seat with ordinary hopper(1 000-4000EKS loading platform)	●		●			
Feeding plate, without hopper (1 000-4000EKS)			●		●	
Barrel supporting structure			●		●	
Anti-slip board for injection base	●		●		●	
Extented nozzle,extent to 50mm.	●			◎		◎
Extented nozzle,extent to 100mm.		◎	●		●	
Spring or hydraulic,penumatic and self-locking nozzle		◎		◎		◎
Hopper temperature control		◎		◎		◎
Enlarging the carriging structure		◎		◎		◎
Reducing shot out the structure		◎		◎		◎
Special special screw barrel (electroplating, alloy, all hard pcmma, pbt,pa, etc.)		◎		◎		◎
Central self-lubrication in injection unit		◎		◎		◎
Infrared heating band		◎		◎		◎
Barrel fan cooling system		◎		◎		◎
Electrical charge		◎		◎		◎
Hydraulic synchronous melting system		◎		◎		◎
Penumatic assistant injection signal interface		◎		◎		◎
Signal interface of color machine		◎		◎		◎
Micro - foaming molding		◎		◎		◎

● Standard ◎ Optional

Control Unit	70-470EKS		550-1850EKS		2200-4000EKS	
	Standard	Optional	Standard	Optional	Standard	Optional
KEBA Computer 12 inch color screen (BL1000EKS-BL4000EKS)			●		●	
KEBA Computer 10 inch color screen (BL70EKS-BL850EKS)	●		●			
Transducer, weak current switch, solenoid valve line, control line with waterproof bellows.	●		●		●	
Equipped set value reference & online operation help function	●		●		●	
Simple robot interface	●		●		●	
Multiple operating language	●		●		●	
Safety really module monitoring	●		●		●	
Tricolor alarm light	●		●		●	
Real-time clamping force monitoring	●		●		●	
The driver adopts ac contactor protection device	●		●		●	
Parameter data protection lock	●		●		●	
Pid automatic temperature control, realizes the cylinder temperature self-correcting	●		●		●	
Heating dual protection and solid state relay control.	●		●		●	
USB interface, easy backup panel application update and mould parameters save	●		●		●	
Have stop memory function, random can store 240 sets mould data	●		●		●	
200 group abnormal alarm and 200 group modify record store	●		●		●	
Multi-level password settings to prevent the error revising/ changing unintentionally and the user could be freely authorized the qualifier to access the related password level as request.	●		●		●	
Input, output point detection and i/o online simulation function, can quickly confirm the machine operation status.	●		●		●	
The front and rear door emergency stop switch protection	●		●		●	
Emergency stop switch protection of mold area (1200-4000eks)			●		●	
Quality data process monitoring interface.	●		●		●	
Production statistical process control real-time list interface (spc)	●		●		●	
Equipped with feeding and detective sensor(70-350EKS)	●					
Socket: 5-core 32A×1+5 core 16A×1, 3-core multi-function ×2	●	◎				
Socket: 5-core 32A×1+5 core 16A×1, 3-core multi-function ×2		◎	●			
Socket: 5-core 32A×2+5 core 16A×1, 3-core multi-function ×2		◎		◎	●	
Real-time energy consumption monitoring		◎		◎		◎
The(euro map)robot interface		◎		◎		◎
Hot runner interface		◎		◎		◎
Reserve air blow, core pulling, ejector backward protection and other kinds of interfaces.		◎		◎		◎
Techmation computer 12 inch color screen		◎		◎		◎
IV3100 computer (10 inch, 12 inch)		◎		◎		◎
Beckhoff computer (10 inch, 12 inch)multiple operating language		◎		◎		◎
Servo system adopts digital (CAN) communication (inovance drive)		◎		◎		◎
Built-in operating instructions for computer (IV3100 computer)		◎		◎		◎
Special requirement socket		◎		◎		◎
Computer network centralized control, network monitoring system.		◎		◎		◎
Injection moulding machine industry 4.0 networking function (RS232/CAN/ETHERCAT)		◎		◎		◎
Front and rear safety door light curtains protection		◎		◎		◎

● Standard ◎ Optional

Hydraulic Unit	70-470EKS		550-1850EKS		2200-4000EKS	
	Standard	Optional	Standard	Optional	Standard	Optional
Servo energing-savingsystem		●		●		●
Oil temperature deviation automatic alarm		●		●		●
Motor overload protection function		●		●		●
Net oil suction filter		●				
Self-sealing soil filter			●		●	
Standard:one core pulling, reserve one core pulling(fixed platen)		●				
Standard with 2 core pulling(1 on fixed & 1 moving),reserve 2 core pulling(1 on fixed & 1 on moving) with core hold and release function.			●		●	
Uncovering high pressure hose with explosion-proof chain		●		●		●
Mold open differential device		●		●		●
Imported famous brand hydraulic control valve.		●		●		●
Imported famous brand hydraulic seals.		●		●		●
Imported nameplate high pressure hose.		●		●		●
Multi-group sequential injection function (electrical interface)		◎		◎		◎
Multi-group sequential injection function (independent 11kw servo pump, ordinary motor, pneumatic valve available.)		◎		◎		◎
High precision bypass filter		◎		◎		◎
Enlarge plasticizing motor		◎		◎		◎
Ejector backward buffering function		◎		◎		◎
Nitrogen injection function (ACC)		◎		◎		
Special numbers of core pulling		◎		◎		◎
Enlarge pump motor power		◎		◎		◎
Injection servo valve		◎		◎		
Injection proportional valve		◎				◎
Mold open/clos proportional valve.		◎		◎		◎
Ejector proportional valve		◎		◎		◎

Other	70-470EKS		550-1850EKS		2200-4000EKS	
	Standard	Optional	Standard	Optional	Standard	Optional
Standard machine color of Bole EKS		●		●		●
Adjustable level pad		●		●		●
Ground steel plate(1850-4000EKS)Ground bolt			●		●	
Spare parts tool box,common tools ,vulnerable parts ,extended nozzle,user's guide		●		●		●
Pick-up platform(1850-4000eks)			●		●	
Machine fixed l-shaped positioning block		◎		◎		◎
Special color (for cover)		◎		◎		◎
Robot		◎		◎		◎
Magnetic shelf		◎		◎		◎
Hopper dryer		◎		◎		◎
Auto-loader		◎		◎		◎
Fumigation wood package		◎		◎		◎
Hydraulic oil		◎		◎		◎
Multiple language warning signs		◎		◎		◎

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