

EKS Series



The Passionate Pursuit of Perfection
www.boleamerica.com

BOLE Machinery, Inc.

4706 Hudson Dr.
Stow, OH 44224
Tel: (330) 983-4700
Email: Office@boleamerica.com

EKS Hydraulic Servo Energy-Saving Injection Molding Machine

THE CATALOG IS PROTECTED BY LAW OF COPY RIGHT.
ANY USE WITHOUT THE EXPRESS PERMISSION OF BOLE MACHINERY, INC IS PROHIBITED.

THIS VERSION WAS PRINTED IN MARCH 2020.

EKS Series

EKS Hydraulic Servo Energy Saving Injection Molding Machine



Injection Molding Machine



More than 60 upgrades have been implemented to the mechanical, electric, hydraulic, and software systems making the EKS the top-of-the-line in all-electric injection molding machines.



Excellent Stability

BOLE has increased the structural rigidity of the EKS by 30% to provide greater stability during molding, especially of large molds

Accurate

- BOLE's EKS provides precise mold open/close positioning: +/- 0.0197inch
- Injection positioning accuracy of +/- 0.0079inch

Economical

BOLE's central clamping toggle design saves 2-5% in material for 80% of our Customers compared to traditional edge-clamping toggle designs

Intelligent Networking Management System

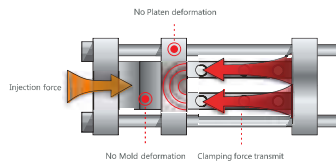
- Designed for Industry 4.0 Intelligent Factories
- High-performance PLC obtains information from all systems including robot, mold temperature controller, cooling and machine accessories.
- Wireless network management system interacts with cell phones to display machine information, operational status, machine downtime, and product analysis at a glance.
- Orders dispatched via computer for greater production efficiency, better production planning and operational control.
- EMS data exchange terminal makes it possible to automate every machine line

Clamping Unit

Center-clamping Structure
 Obtained the National Invention Patent of China
 (Patent No.: ZL2011 10250342.5)

Unique Center Clamping Structure designed to increase overall structural rigidity by 30%

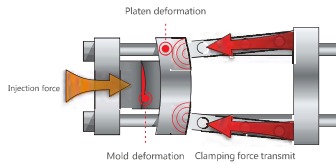
Toggle System Comparison:



BOLE

BOLE Center Clamping Structure

- Provides 100% clamping force efficiency
- 2-5% material savings
- Reduces mold wear and eliminates platen deflection
- Reduces the possibility of part flash, eliminating secondary trim work

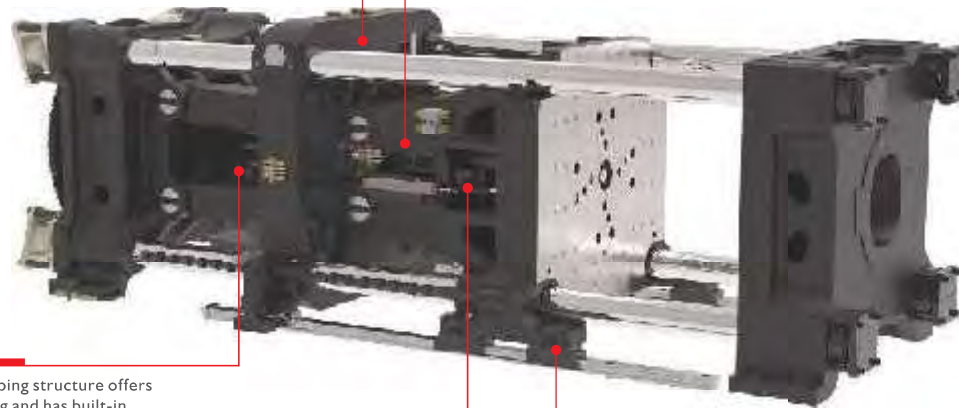


Others

Traditional Toggle Systems

- 80-85% clamping force efficiency
- Platen deflection causes flash, waste of material and increases labor costs to trim parts

Newly designed EKS clamping structure offers improved rigidity for less platen deflection, less mold wear saving on mold maintenance.



Innovative Toggle structure offers greater machine stability, faster speed and shorter dry-cycle times.

280-4000-ton clamping structure offers more tie-bar spacing and has built-in clamping cylinder.

Patented pneumatic fast-forced resetting connector makes assembly and disassembly easy; adaptable to all ejector types.

Optimized platen structure means easy installation of ejector back rod.

Moving platen support structure for 110-1102 US Ton presses uses linear guide rather than tie-bars to keep the mold area clean for clean-room use.

1323 US Ton and above offers a non-slip foot design to increase machine stability for greater reliability when using large molds.

Injection Unit

Offers Precision Design by German Engineers



- German-designed screws are custom-made to meet complex technical requirements for special plasticizing systems.
- All series can be outfitted with A\B\C screws to achieve optimum plasticizing efficiency.

All BOLE series injector units can be fit with A\B\C screw, with L/D ratio of 23:1 to achieve optimum plasticizing with greater efficiency.

Plasticizing unit design of German.

Plasticizing unit design offers German Engineering offering efficiencies in excess of 20% of competing plasticizing units.

An upgraded module design with high rigidity at the injection seat, with a linear guide supporting structure.

Enhanced cooling ring for the barrel offers better temperature control and charge efficiency.

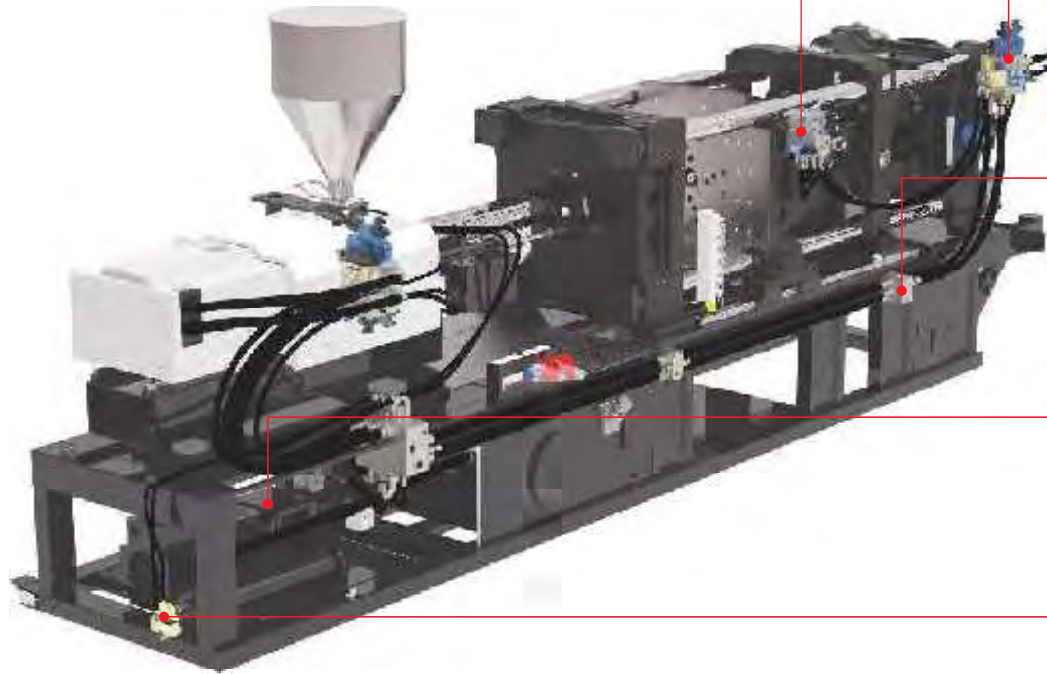
New injection cylinder offers lower injection offers less back resistance.

Stronger charge unit offers greater stability and longer life.

Compatible injection base for three different models.

Hydraulic Unit

Machine comes standard with one set of valve-gated manifold for fast combination.



Special hydraulic system for clamping with patented software algorithms for greater position accuracy of ± 0.0197 inch

Non-welded hydraulic pipe system means solid structure with no leakage problems.

A low momentum servo system offers quick response time (30-50 milliseconds); system pressure rises to 2538 psi. Injection pressure and speed are greatly increased for faster cycle times.

Oil temperature auto-control systems means less cooling water required and more stability in the machine.

Intelligent Software Design

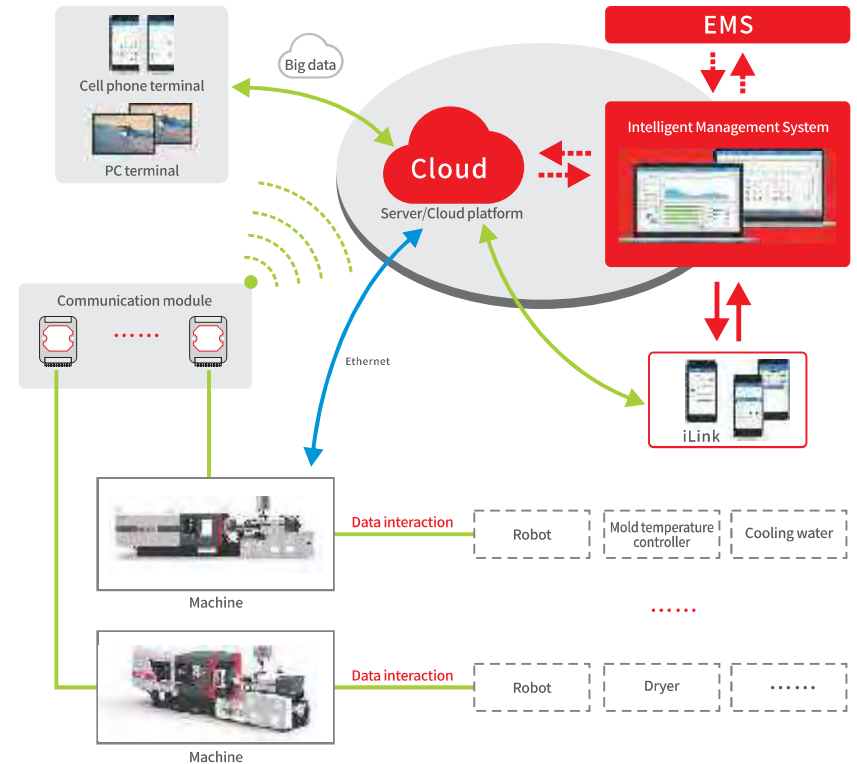
KEBA controller



- Industry 4.0 with BOLE'S new Intelligent Networking Management System.
- Greater accuracy can be achieved with the intelligent control software of Mold Open Positioning providing an accuracy of +/-0.0197 inch with a BOLE EKS injection molding machine.
- Integrated with the patented control software for Intelligent Injection Process Controller, accuracy in repeatability can be achieved.
- BOLE's EKS comes equipped with I/O safety notice to prevent short-circuits.
- Electrical components offer the engineering expertise of vendors including Schneider Electric, Eaton, ABB and Fuji to ensure the highest-quality components for longer service life.
- Independent wiring layout with anti-interference along with an independent control box offers easy installation, and convenience for repair.

Intelligent Networking Management System

March into industry 4.0 ,opening a new era of intelligent factories



The high performance PLC of the BOLE EKS injection molding machine captures the information of the robotics, mold temperature controller, cooling system and other machine accessories. A wireless network management system provides data interaction so that information can be obtained through PC or cell phone for checking processing parameters and operation status remotely. It also offers machine failure incidents as well as product analysis at a glance for better production efficiencies, product planning and scheduling. BOLE provides EMS data exchange terminal making it possible to implement automation through the entire factory for true Industry 4.0 manufacturing.

Technical Data

Description	UNIT	BL750EKS/C4800				BL750EKS/C5900				BL750EKS/C7900				BL850EKS/C5900				BL850EKS/C7900							
Clamping Unit																									
Clamping force	us ton	827																937							
Opening stroke	in	41.34																43.31							
Distance between tie bars (h×v)	in×in	41.7 x 37.8																44.1 x 40.2							
Platen dimension (h×v)	in×in	57.3 x 53.3																61.4 x 57.5							
Min. mold height	in	17.72																17.72							
Max. mold height	in	43.31																45.28							
Max. daylight	in	84.65																88.58							
Ejector stroke	in	10.63																11.81							
Ejector force forward	us ton	21.8																21.8							
Ejector force back	us ton	14.2																14.2							
Number of ejector ping	pc	21																21							
Injection Unit																									
International specification		4800				5900				7900				5900				7900							
Screw specification	mm	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D				
Screw diameter	mm	80	85	90	100	80	90	100	110	90	100	110	120	80	90	100	110	90	100	110	120				
Screw diameter	in	3.15	3.35	3.54	3.94	3.15	3.54	3.94	4.33	3.54	3.94	4.33	4.72	3.15	3.54	3.94	4.33	3.54	3.94	4.33	4.72				
Screw ratio	L/D	23	23	23	21.8	23	23	23	21	23	23	23	21	23	23	23	21	23	23	23	21				
Theoretical shot volume	cu in	139.5	157.5	176.5	218.0	153.3	194.0	239.5	289.8	211.5	261.1	315.9	375.9	153.3	194.0	239.5	289.8	211.5	261.1	315.9	375.9				
Max. shot weight (PS)	g	2103	2374	2662	3286	2311	2925	3611	4369	3188	3936	4763	5668	2311	2925	3611	4369	3188	3936	4763	5668				
Max. shot weight (PS)	oz	74.31	83.89	94.05	116.11	81.66	103.35	127.60	154.39	112.66	139.08	168.29	200.28	81.66	103.35	127.60	154.39	112.66	139.08	168.29	200.28				
Injection rate into the air	cu in/s	36.49	41.19	46.18	57.01	33.36	42.22	52.12	63.07	40.65	50.18	60.72	72.27	40.68	51.49	63.57	76.92	40.65	50.18	60.72	72.27				
Injection rate into the air (PS)	oz/s	19.23	21.70	24.33	30.04	17.58	22.25	27.47	33.23	21.42	26.44	32.00	38.08	21.44	27.13	33.50	40.53	21.42	26.44	32.00	38.08				
Specific Injection pressure	psi	30458	26980	24066	19493	33313	26322	21321	17620	33341	27006	22319	18754	33313	26322	21321	17620	33341	27006	22319	18754				
Screw stroke	in	17.91				19.69				21.46				19.69				21.46							
Max. injection speed	in/s	4.69				4.28				4.12				5.22				4.12							
Max. Screw speed	r/min	179				139				122				169				122							
Theoretical plasticizing speed (PS)	g/s	90.0	106.0	124.0	167.0	80	109	148	189	96.0	130.0	166.0	214.0	84.0	114.0	155.0	198.0	96	130	166	214				
Other																									
System Pressure	psi	2538																2538							
Pump motor	kw	50.7+26.7																50.7+50.7				50.7+50.7			
Heater power	kw	36	38.3	40.6	40.6	43	48.5	54	59.5	50	54.2	58.4	58.4	43	48.5	54	59.5	50	54.2	58.4	58.4				
Number of temp. control zones		5+1								6+1				5+1				6+1							
Energy consumption level	kw.h/kg	≤0.4																≤0.4							
Hopper capacity	lbs	220																220							
Oil tank capacity	us gal	264																317							
Machine dimensions (L×W×H)	ft×ft×ft	34.1 x 8.5 x 10.2								35.8 x 8.5 x 10.2				37.7 x 8.9 x 10.2											
Machine weight	lbs	68343																88185							

Technical Data

Description	UNIT	BL850EKS/C10000				BL1000EKS/C7900				BL1000EKS/C10000				BL1000EKS/C13500				BL1200EKS/C7900							
Clamping Unit																									
Clamping force	us ton	937								1,102								1,323							
Opening stroke	in	43.31								45.28								51.97							
Distance between tie bars (h×v)	in×in	44.1 × 40.2								45.7 × 41.7								49.6 × 44.1							
Platen dimension (h×v)	in×in	61.4 × 57.5								64.1 × 60.0								69.9 × 64.4							
Min. mold height	in	17.72								19.69								21.65							
Max. mold height	in	45.28								47.24								51.18							
Max. daylight	in	88.58								92.52								103.15							
Ejector stroke	in	11.81								11.81								13.78							
Ejector force forward	us ton	21.8								27.3								27.3							
Ejector force back	us ton	14.2								18.2								18.2							
Number of ejector ping	pc	21								21								21							
Injection Unit																									
International specification		10000				7900				10000				13500				7900							
Screw specification	mm	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D				
Screw diameter	mm	100	110	120	130	90	100	110	120	100	110	120	130	110	120	130	140	90	100	110	120				
Screw diameter	in	3.94	4.33	4.72	5.12	3.54	3.94	4.33	4.72	3.94	4.33	4.72	5.12	4.33	4.72	5.12	5.51	3.54	3.94	4.33	4.72				
Screw ratio	L/D	23	23	23	21	23	23	23	21	23	23	23	21	23	23	23	21.3	23	23	23	21				
Theoretical shot volume	cu in	285.0	344.9	410.4	481.7	211.5	261.1	315.9	375.9	285.0	344.9	410.4	481.7	371.0	441.5	518.1	600.9	211.5	261.1	315.9	375.9				
Max. shot weight (PS)	g	4297	5199	6188	7262	3188	3936	4763	5668	4297	5199	6188	7262	5593	6656	7811	9059	3188	3936	4763	5668				
Max. shot weight (PS)	oz	151.84	183.73	218.65	256.61	112.66	139.08	168.29	200.28	151.84	183.73	218.65	256.61	197.62	235.19	276.02	320.12	112.66	139.08	168.29	200.28				
Injection rate into the air	cu in/s	50.01	60.51	72.01	84.52	46.83	57.81	69.95	83.25	50.01	60.51	72.01	84.52	59.12	70.36	82.57	95.76	46.83	57.81	69.95	83.25				
Injection rate into the air (PS)	oz/s	26.35	31.89	37.95	44.53	24.68	30.46	36.86	43.87	26.35	31.89	37.95	44.53	31.15	37.07	43.51	50.46	24.68	30.46	36.86	43.87				
Specific Injection pressure	psi	31219	25801	21680	18473	33341	27006	22319	18754	31219	25801	21680	18473	32094	26968	22979	19813	33341	27006	22319	18754				
Screw stroke	in	23.43				21.46				23.43				25.20				21.46							
Max. injection speed	in/s	4.11				4.75				4.11				4.02				4.75							
Max. Screw speed	r/min	121				141				121				113				141							
Theoretical plasticizing speed (PS)	g/s	129.0	164.0	212.0	253.0	98.0	133.0	170.0	220.0	129	164	212	253	154	198	237	295	98.0	133.0	170.0	220.0				
Other																									
System Pressure	psi	2538								2538								2538							
Pump motor	kw	50.7+40.9+20.5								50.7+40.9+20.5								50.7+40.9+20.5							
Heater power	kw	56.2	60.4	62.4	62.4	50	54.2	58.4	58.4	56.2	60.4	62.4	62.4	74.6	78.1	81.6	81.6	50	54.2	58.4	58.4				
Number of temp. control zones		6+1								6+1								7+1				6+1			
Energy consumption level	kw.h/kg	≤0.4								≤0.4								≤0.4							
Hopper capacity	lbs	441				220								441								441			
Oil tank capacity	us gal	317								370								370							
Machine dimensions (L×W×H)	ft×ft×ft	39.4 × 8.9 × 10.2								33.5 × 9.5 × 9.8								34.4 × 9.5 × 9.8				36.7 × 10.8 × 13.8			
Machine weight	lbs	88185								99208								114640							

Technical Data

Description	UNIT	BLI200EKS/CI0000				BLI200EKS/CI3500				BLI400EKS/CI0000				BLI400EKS/CI3500				BLI400EKS/CI9300			
Clamping Unit																					
Clamping force	us ton	1,323								1,543											
Opening stroke	in	51.97								57.09											
Distance between tie bars (h×v)	in×in	49.6 x 44.1								55.9 x 48.0											
Platen dimension (h×v)	in×in	69.9 x 64.4								78.3 x 70.5											
Min. mold height	in	21.65								25.59											
Max. mold height	in	51.18								57.09											
Max. daylight	in	103.15								114.17											
Ejector stroke	in	13.78								13.78											
Ejector force forward	us ton	27.3								27.3											
Ejector force back	us ton	18.2								18.2											
Number of ejector ping	pc	21								29											
Injection Unit																					
International specification		10000				13500				10000				13500				19300			
Screw specification	mm	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
Screw diameter	mm	100	110	120	130	110	120	130	140	100	110	120	130	110	120	130	140	120	135	145	155
Screw diameter	in	3.94	4.33	4.72	5.12	4.33	4.72	5.12	5.51	3.94	4.33	4.72	5.12	4.33	4.72	5.12	5.51	4.72	5.31	5.71	6.10
Screw ratio	L/D	23	23	23	21.2	23	23	23	21.3	23	23	23	21.2	23	23	23	21.3	23	23	23	21.4
Theoretical shot volume	cu in	285.0	344.9	410.4	481.7	371.0	441.5	518.1	600.9	285.0	344.9	410.4	481.7	371.0	441.5	518.1	600.9	500.1	633.0	730.2	834.4
Max. shot weight (PS)	g	4297	5199	6188	7262	5593	6656	7811	9059	4297	5199	6188	7262	5593	6656	7811	9059	7540	9543	11009	12579
Max. shot weight (PS)	oz	151.84	183.73	218.65	256.61	197.62	235.19	276.02	320.12	151.84	183.73	218.65	256.61	197.62	235.19	276.02	320.12	266.42	337.19	389.00	444.50
Injection rate into the air	cu in/s	50.01	60.51	72.01	84.52	59.12	70.36	82.57	95.76	60.78	73.54	87.52	102.71	59.12	70.36	82.57	95.76	67.45	85.36	98.48	112.53
Injection rate into the air (PS)	oz/s	26.35	31.89	37.95	44.53	31.15	37.07	43.51	50.46	32.02	38.75	46.12	54.12	31.15	37.07	43.51	50.46	35.54	44.98	51.89	59.30
Specific Injection pressure	psi	31219	25801	21680	18473	32094	26968	22979	19813	31219	25801	21680	18473	32094	26968	22979	19813	34159	26990	23396	20474
Screw stroke	in	23.43				25.20				23.43				25.20				28.54			
Max. injection speed	in/s	4.11				4.02				4.99				4.02				3.85			
Max. Screw speed	r/min	121				113				147				113				108			
Theoretical plasticizing speed (PS)	g/s	129	164	212	253	154	198	237	295	135.0	172.0	222.0	265.0	154	198	237	295	188	257	306	369
Other																					
System Pressure	psi	2538								2538											
Pump motor	kw	50.7+40.9+20.5				50.7+50.7+40.9				50.7+50.7+40.9				50.7+40.9+40.9+40.9							
Heater power	kw	56.2	60.4	62.4	62.4	74.6	78.1	81.6	81.6	56.2	60.4	62.4	62.4	74.6	78.1	81.6	81.6	70.7	76.5	80.7	80.7
Number of temp. control zones		6+1				7+1				6+1				7+1							
Energy consumption level	kw.h/kg	≤0.4								≤0.4											
Hopper capacity	lbs	441								441											
Oil tank capacity	us gal	370								436											
Machine dimensions (L×W×H)	ft×ft×ft	36.7 x 10.8 x 13.8				38.4 x 10.8 x 13.8				39.7 x 11.5 x 14.1				41.3 x 11.5 x 14.1							
Machine weight	lbs	114640								147710											

Technical Data

Description	UNIT	BLI600EKS/CI3500	BLI600EKS/CI9300	BLI600EKS/C25000	BLI850EKS/CI3500	BLI850EKS/CI9300															
Clamping Unit																					
Clamping force	us ton	1,764			2,039																
Opening stroke	in	61.02			66.14																
Distance between tie bars (h×v)	in×in	59.8 x 52.0			63.8 x 55.9																
Platen dimension (h×v)	in×in	83.9 x 76.0			89.8 x 81.9																
Min. mold height	in	27.56			29.53																
Max. mold height	in	61.02			64.96																
Max. daylight	in	122.05			131.10																
Ejector stroke	in	15.75			15.75																
Ejector force forward	us ton	40.0			40.0																
Ejector force back	us ton	30.9			30.9																
Number of ejector ping	pc	29			29																
Injection Unit																					
International specification		13500				19300				25000				13500				19300			
Screw specification	mm	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
Screw diameter	mm	110	120	130	140	120	135	145	155	140	150	160	170	110	120	130	140	120	135	145	155
Screw diameter	in	4.33	4.72	5.12	5.51	4.72	5.31	5.71	6.10	5.51	5.91	6.30	6.69	4.33	4.72	5.12	5.51	4.72	5.31	5.71	6.10
Screw ratio	L/D	23	23	23	21.3	23	23	23	21.4	23	23	23	21.6	23	23	23	21.3	23	23	23	21.5
Theoretical shot volume	cu in	371.0	441.5	518.1	600.9	500.1	633.0	730.2	834.4	737.0	846.1	962.7	1086.8	371.0	441.5	518.1	600.9	500.1	633.0	730.2	834.4
Max. shot weight (PS)	g	5593	6656	7811	9059	7540	9543	11009	12579	11112	12756	14513	16384	5593	6656	7811	9059	7540	9543	11009	12579
Max. shot weight (PS)	oz	197.62	235.19	276.02	320.12	266.42	337.19	389.00	444.50	392.64	450.74	512.84	578.95	197.62	235.19	276.02	320.12	266.42	337.19	389.00	444.50
Injection rate into the air	cu in/s	71.79	85.43	100.27	116.28	67.45	85.36	98.48	112.53	83.06	95.35	108.49	122.47	71.79	85.43	100.27	116.28	67.45	85.36	98.48	112.53
Injection rate into the air (PS)	oz/s	37.83	45.02	52.83	61.27	35.54	44.98	51.89	59.30	43.77	50.24	57.17	64.53	37.83	45.02	52.83	61.27	35.54	44.98	51.89	59.30
Specific Injection pressure	psi	32094	26968	22979	19813	34159	26990	23396	20474	31002	27006	23736	21025	32094	26968	22979	19813	34159	26990	23396	20474
Screw stroke	in	25.20				28.54				30.91				25.20				28.54			
Max. injection speed	in/s	4.88				3.85				3.48				4.88				3.85			
Max. Screw speed	r/min	137				108				100				137				108			
Theoretical plasticizing speed (PS)	g/s	161.0	207.0	248.0	309.0	188	257	306	369	260	312	444	546	161.0	207.0	248.0	309.0	188	257	306	369
Other																					
System Pressure	psi	2538				2538				2538				2538							
Pump motor	kw	50.7+40.9+40.9+40.9				50.7+40.9+40.9+40.9				50.7+40.9+40.9+40.9				50.7+40.9+40.9+40.9							
Heater power	kw	74.6	78.1	81.6	81.6	70.7	76.5	80.7	80.7	112.1	116.4	120.7	120.7	74.6	78.1	81.6	81.6	89.9	95.7	99.8	99.8
Number of temp. control zones		7+1				8+1				7+1											
Energy consumption level	kw.h/kg	≤0.4				≤0.4				≤0.4											
Hopper capacity	lbs	441				441				441											
Oil tank capacity	us gal	594				594				594											
Machine dimensions (L×W×H)	ft×ft×ft	43.0 x 11.8 x 14.1				44.3 x 11.8 x 14.1				45.9 x 12.1 x 14.8											
Machine weight	lbs	207235				207235				233690											

Technical Data

Description	UNIT	BL1850EKS/C25000				BL2200EKS/C19300				BL2200EKS/C25000				BL2200EKS/C36000				BL2500EKS/C25000			
Clamping Unit																					
Clamping force	us ton	2,039								2,425								2,756			
Opening stroke	in	66.14								72.83								78.74			
Distance between tie bars (h×v)	in×in	63.8 × 55.9								67.7 × 59.8								71.7 × 63.8			
Platen dimension (h×v)	in×in	89.8 × 81.9								94.9 × 87.0								100.8 × 92.9			
Min. mold height	in	29.53								29.53								31.50			
Max. mold height	in	64.96								68.90								72.83			
Max. daylight	in	131.10								141.73								151.57			
Ejector stroke	in	15.75								17.72								19.69			
Ejector force forward	us ton	40.0								51.3								51.3			
Ejector force back	us ton	30.9								40.2								40.2			
Number of ejector ping	pc	29								33								33			
Injection Unit																					
International specification		25000				19300				25000				36000				25000			
Screw specification	mm	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
Screw diameter	mm	140	150	160	170	120	135	145	155	140	150	170	185	160	170	185	195	140	150	170	185
Screw diameter	in	5.51	5.91	6.30	6.69	4.72	5.31	5.71	6.10	5.51	5.91	6.69	7.28	6.30	6.69	7.28	7.68	5.51	5.91	6.69	7.28
Screw ratio	L/D	23	23	23	21.6	23	23	23	21.5	23	23	22	21.6	23	23	23	21.7	23	23	22	20
Theoretical shot volume	cu in	737.0	846.1	962.7	1086.8	500.1	633.0	730.2	834.4	737.0	846.1	1086.8	1287.0	1134.4	1280.6	1516.5	1684.9	737.0	846.1	1086.8	1287.0
Max. shot weight (PS)	g	11112	12756	14513	16384	7540	9543	11009	12579	11112	12756	16384	19403	17102	19306	22863	25402	11112	12756	16384	19403
Max. shot weight (PS)	oz	392.64	450.74	512.84	578.95	266.42	337.19	389.00	444.50	392.64	450.74	578.95	685.62	604.30	682.20	807.90	897.60	392.64	450.74	578.95	685.62
Injection rate into the air	cu in/s	83.06	95.35	108.49	122.47	75.38	95.41	110.06	125.77	83.06	95.35	122.47	145.04	94.34	106.50	126.12	140.12	87.43	100.37	128.92	152.67
Injection rate into the air (PS)	oz/s	43.77	50.24	57.17	64.53	39.72	50.27	58.00	66.27	43.77	50.24	64.53	76.43	49.71	56.12	66.46	73.84	46.07	52.89	67.93	80.45
Specific Injection pressure	psi	31002	27006	23736	21025	34159	26990	23396	20474	31002	27006	21025	17754	28733	25452	21492	19344	31002	27006	21025	17754
Screw stroke	in	30.91				28.54				30.91				36.42				30.91			
Max. injection speed	in/s	3.48				4.30				3.48				3.03				3.67			
Max. Screw speed	r/min	100				120				100				84				105			
Theoretical plasticizing speed (PS)	g/s	260	312	444	546	191.0	262.0	312.0	376.0	260	312	444	546	319	374	460	552	260.0	312.0	444.0	546.0
Other																					
System Pressure	psi	2538								2538								2538			
Pump motor	kw	50.7+50.7+50.7+40.9								50.7+50.7+50.7+40.9								50.7+50.7+50.7+50.7			
Heater power	kw	112.1	116.4	120.7	120.7	89.9	95.7	99.8	99.8	112.1	116.4	120.7	120.7	175.8	180.7	188.7	188.7	112.1	116.4	120.7	120.7
Number of temp. control zones		8+1				7+1								8+1				8+1			
Energy consumption level	kw.h/kg	≤0.4								≤0.4								≤0.4			
Hopper capacity	lbs	441								882								882			
Oil tank capacity	us gal	594								660								726			
Machine dimensions (L×W×H)	ft×ft×ft	48.9 × 12.1 × 14.8								52.2 × 13.5 × 15.1								54.1 × 13.5 × 15.1			
Machine weight	lbs	233690								291010								352740			

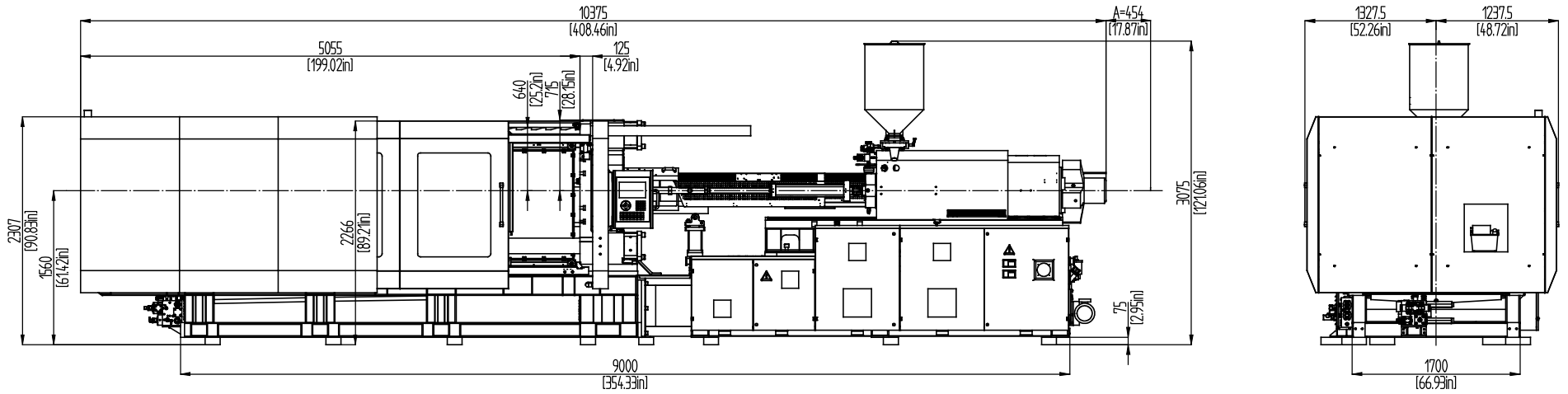
Technical Data

Description	UNIT	BL2500EKS/C36000				BL2500EKS/C49000				BL2800EKS/C36000				BL2800EKS/C49000				BL2800EKS/C80000			
Clamping Unit																					
Clamping force	us ton	2,756								3,086											
Opening stroke	in	78.74								82.68											
Distance between tie bars (h×v)	in×in	71.7 × 63.8								75.6 × 67.7											
Platen dimension (h×v)	in×in	100.8 × 92.9								107.1 × 99.2											
Min. mold height	in	31.50								35.43											
Max. mold height	in	72.83								76.77											
Max. daylight	in	151.57								159.45											
Ejector stroke	in	19.69								19.69											
Ejector force forward	us ton	51.3								51.3											
Ejector force back	us ton	40.2								40.2											
Number of ejector ping	pc	33								33											
Injection Unit																					
International specification		36000				49000				36000				49000				80000			
Screw specification	mm	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
Screw diameter	mm	160	170	185	195	170	190	200	220	160	170	185	195	170	190	200	220	210	220	240	260
Screw diameter	in	6.30	6.69	7.28	7.68	6.69	7.48	7.87	8.66	6.30	6.69	7.28	7.68	6.69	7.48	7.87	8.66	8.27	8.66	9.45	10.24
Screw ratio	L/D	23	23	23	21.7	23	23	23	21.4	23	23	23	21.7	23	23	23	21.4	23	23	23	22
Theoretical shot volume	cu in	1134.4	1280.6	1516.5	1684.9	1446.7	1807.1	2002.4	2422.9	1134.4	1280.6	1516.5	1684.9	1446.7	1807.1	2002.4	2422.9	2556.2	2805.4	3338.7	3918.3
Max. shot weight (PS)	g	17102	19306	22863	25402	21811	27245	30188	36527	17102	19306	22863	25402	21811	27245	30188	36527	38537	42295	50334	59073
Max. shot weight (PS)	oz	604.30	682.20	807.90	897.60	770.70	962.71	1066.71	1290.72	604.30	682.20	807.90	897.60	770.70	962.71	1066.71	1290.72	1361.74	1494.52	1778.60	2087.39
Injection rate into the air	cu in/s	94.34	106.50	126.12	140.12	103.77	129.62	143.63	173.79	109.43	123.54	146.30	162.54	103.77	129.62	143.63	173.79	137.36	150.75	179.41	210.56
Injection rate into the air (PS)	oz/s	49.71	56.12	66.46	73.84	54.68	68.30	75.68	91.58	57.66	65.10	77.09	85.65	54.68	68.30	75.68	91.58	72.38	79.44	94.54	110.95
Specific Injection pressure	psi	28733	25452	21492	19344	30300	24257	21892	18092	28733	25452	21492	19344	30300	24257	21892	18092	27626	25172	21151	18022
Screw stroke	in	36.42				41.14				36.42				41.14				47.64			
Max. injection speed	in/s	3.03				2.95				3.51				2.95				2.56			
Max. Screw speed	r/min	84				81				97				81				67			
Theoretical plasticizing speed (PS)	g/s	319	374	460	552	361	500	573	732	319	374	460	552	361	500	573	732	524	599	743	907
Other																					
System Pressure	psi	2538								2538											
Pump motor	kw	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+26.7				50.7+50.7+50.7+50.7+40.9+40.9							
Heater power	kw	175.8	180.7	188.7	188.7	222.7	233.7	239.5	239.5	175.8	180.7	188.7	188.7	222.7	233.7	239.5	239.5	222.7	229.1	242.9	242.9
Number of temp. control zones		8+1								8+1											
Energy consumption level	kw.h/kg	≤0.4								≤0.4											
Hopper capacity	lbs	882								882											
Oil tank capacity	us gal	726								793											
Machine dimensions (L×W×H)	ft×ft×ft	55.8 × 14.1 × 15.7				59.7 × 14.1 × 15.7				61.0 × 14.8 × 16.4				65.0 × 14.8 × 16.4							
Machine weight	lbs	352740								418878											

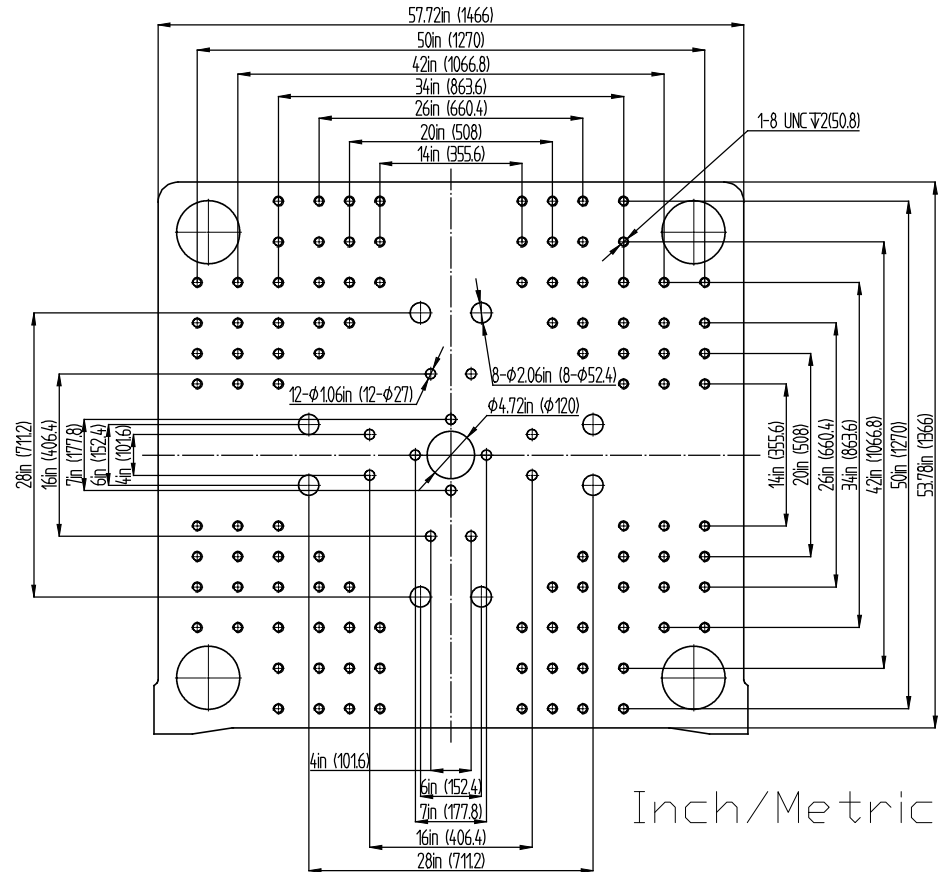
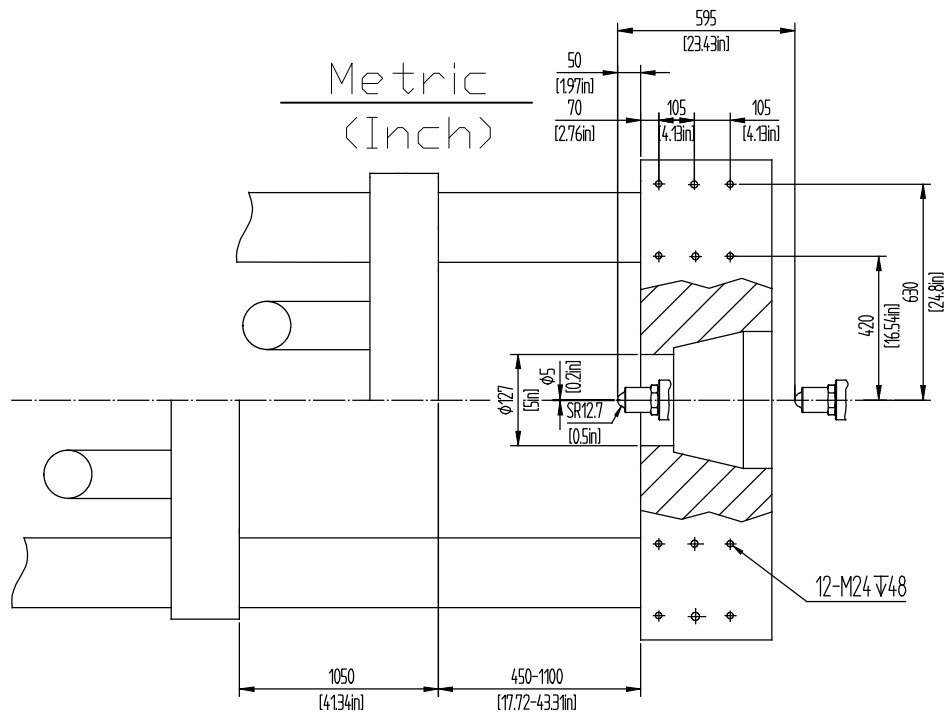
Technical Data

Description	UNIT	BL3300EKS/C49000	BL3300EKS/C80000	BL3300EKS/C120000	BL4000EKS/C80000	BL4000EKS/C120000															
Clamping Unit																					
Clamping force	us ton	3,638			4,409																
Opening stroke	in	86.61			92.52																
Distance between tie bars (h×v)	in×in	83.1 x 75.2			95.3 x 87.4																
Platen dimension (h×v)	in×in	116.5 x 108.7			132.3 x 124.4																
Min. mold height	in	39.37			43.31																
Max. mold height	in	78.74			82.68																
Max. daylight	in	165.35			175.20																
Ejector stroke	in	21.65			23.62																
Ejector force forward	us ton	68.1			68.1																
Ejector force back	us ton	53.2			53.2																
Number of ejector ping	pc	25			25																
Injection Unit																					
International specification		49000				80000				120000				80000				120000			
Screw specification	mm	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
Screw diameter	mm	170	190	200	220	210	220	240	260	220	240	260	270	210	220	240	260	220	240	260	270
Screw diameter	in	6.69	7.48	7.87	8.66	8.27	8.66	9.45	10.24	8.66	9.45	10.24	10.63	8.27	8.66	9.45	10.24	8.66	9.45	10.24	10.63
Screw ratio	L/D	23	23	23	21.4	23	23	23	22	23	23	23	22.1	23	23	23	22	23	23	23	22.1
Theoretical shot volume	cu in	1446.7	1807.1	2002.4	2422.9	2556.2	2805.4	3338.7	3918.3	3524.2	4194.1	4922.2	5308.1	2556.2	2805.4	3338.7	3918.3	3524.2	4194.1	4922.2	5308.1
Max. shot weight (PS)	g	21811	27245	30188	36527	38537	42295	50334	59073	53131	63230	74207	80026	38537	42295	50334	59073	53131	63230	74207	80026
Max. shot weight (PS)	oz	770.70	962.71	1066.71	1290.72	1361.74	1494.52	1778.60	2087.39	1877.41	2234.28	2622.17	2827.76	1361.74	1494.52	1778.60	2087.39	1877.41	2234.28	2622.17	2827.76
Injection rate into the air	cu in/s	125.24	156.44	173.34	209.74	137.36	150.75	179.41	210.56	135.02	160.69	135.02	135.02	147.17	161.52	192.22	225.60	135.02	160.69	188.59	203.37
Injection rate into the air (PS)	oz/s	65.99	82.43	91.34	110.52	72.38	79.44	94.54	110.95	71.15	84.67	71.15	71.15	77.55	85.11	101.29	118.87	71.15	84.67	99.37	107.16
Specific Injection pressure	psi	30300	24257	21892	18092	27626	25172	21151	18022	30112	25302	21559	19992	27626	25172	21151	18022	30112	25302	21559	19992
Screw stroke	in	41.14				47.64				59.84				47.64				59.84			
Max. injection speed	in/s	3.56				2.56				2.29				2.74				2.29			
Max. Screw speed	r/min	89				67				63				79				63			
Theoretical plasticizing speed (PS)	g/s	361	500	573	732	524	599	743	907	568	704	860	945	524	599	743	907	568	704	860	945
Other																					
System Pressure	psi	2538				0				2538											
Pump motor	kw	50.7+50.7+50.7+50.7+40.9+40.9				50.7+50.7+50.7+50.7+50.7+50.7				50.7+50.7+50.7+50.7+50.7+50.7											
Heater power	kw	222.7	233.7	239.5	239.5	222.7	229.1	242.9	242.9	246	259.8	274.8	274.8	246	259.8	274.8	274.8	246	259.8	274.8	274.8
Number of temp. control zones		8+1				5+1				8+1											
Energy consumption level	kw.h/kg	≤0.4				≤0.4				≤0.4											
Hopper capacity	lbs	882				882				882											
Oil tank capacity	us gal	925				925				1057											
Machine dimensions (L×W×H)	ft×ft×ft	66.3 x 15.1 x 16.7				71.9 x 15.1 x 16.7				73.8 x 17.4 x 17.7											
Machine weight	lbs	584225				584225				705479											

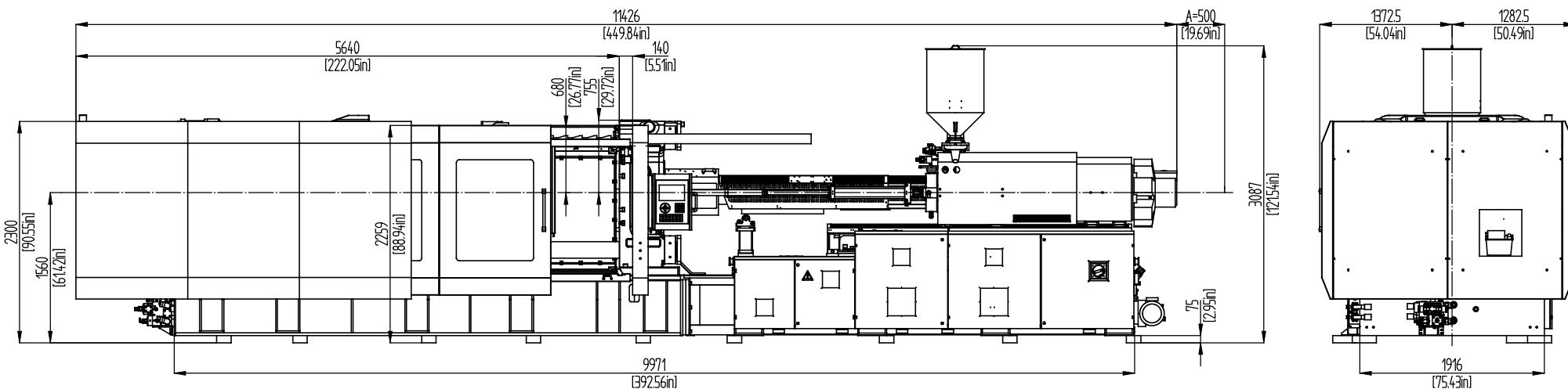
BL750EKS



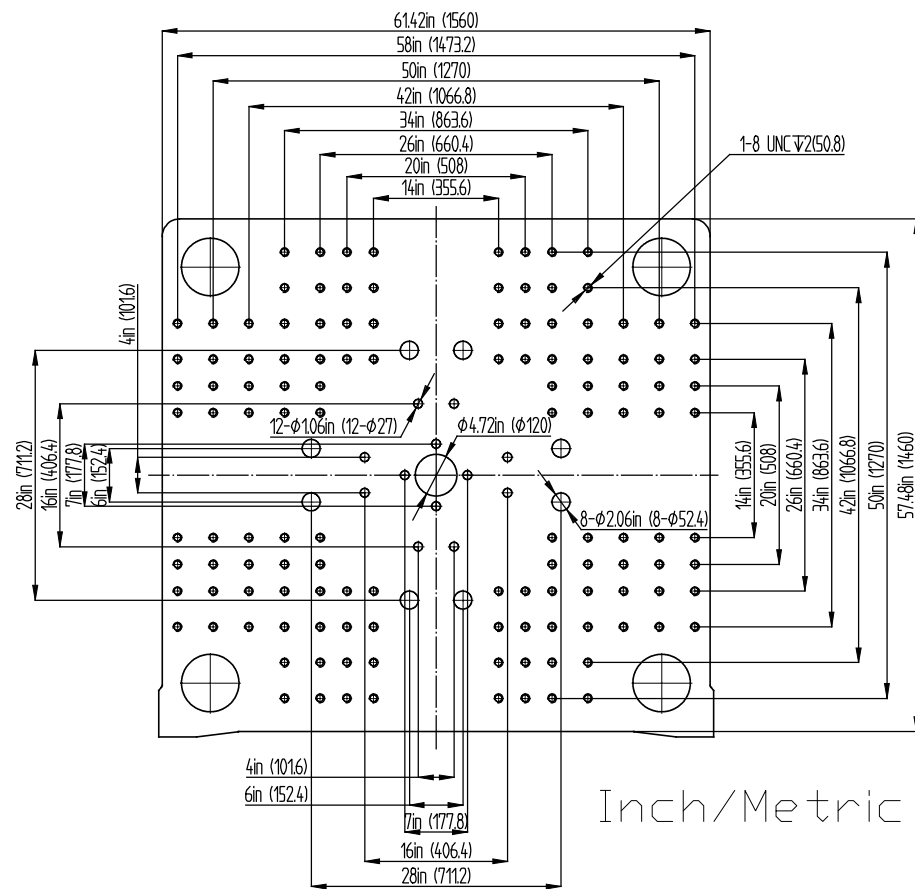
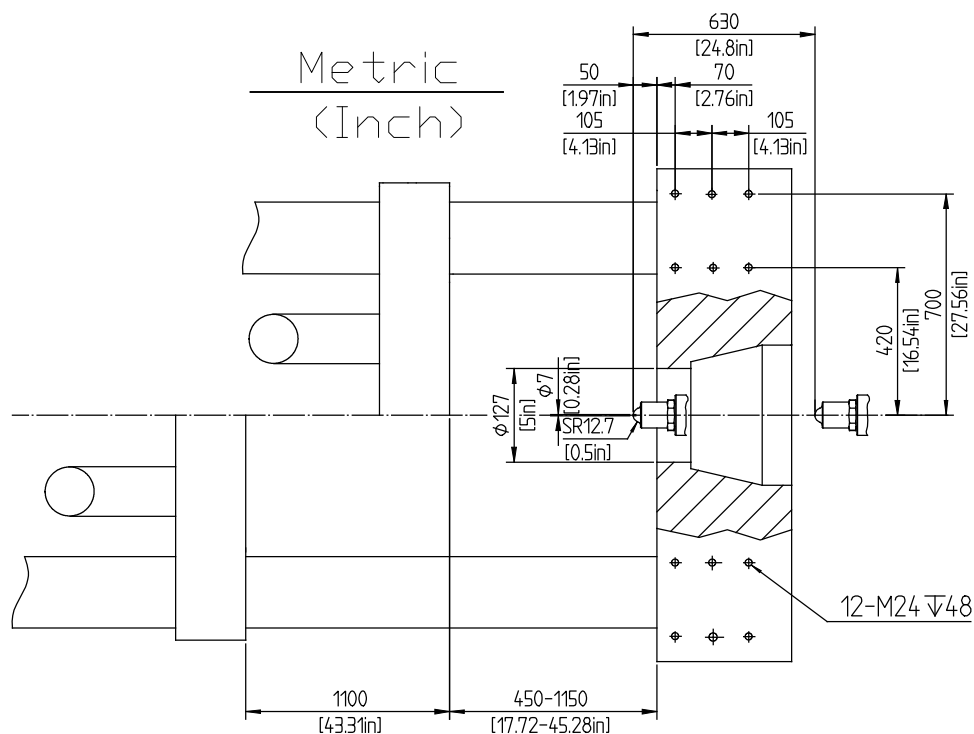
Metric
(Inch)



Inch/Metric

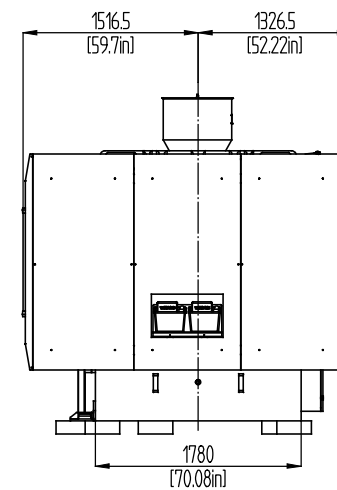
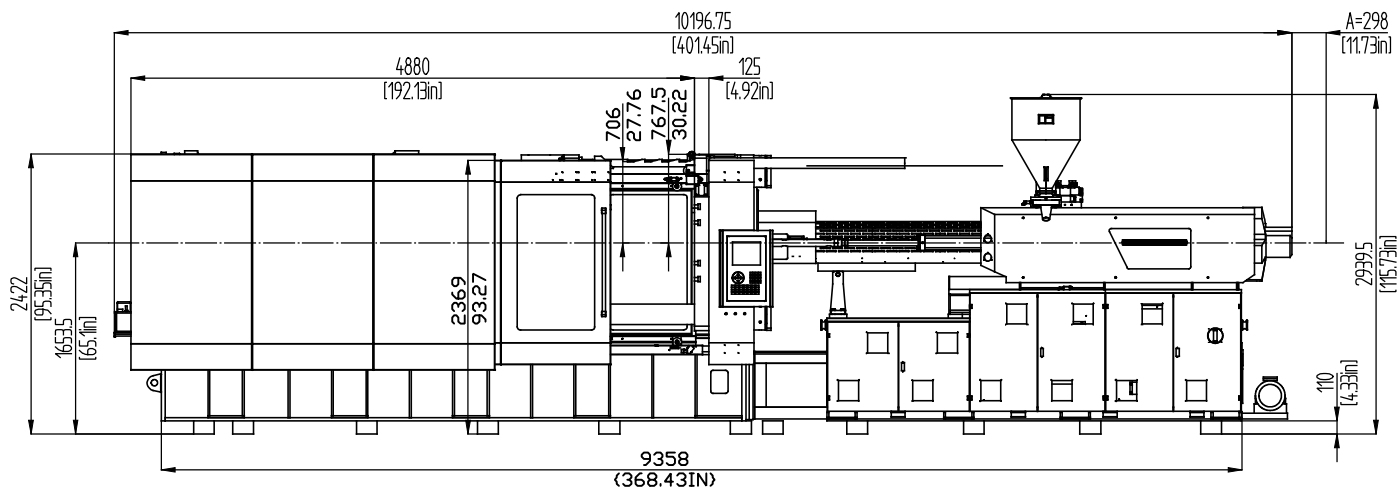


Metric
(Inch)

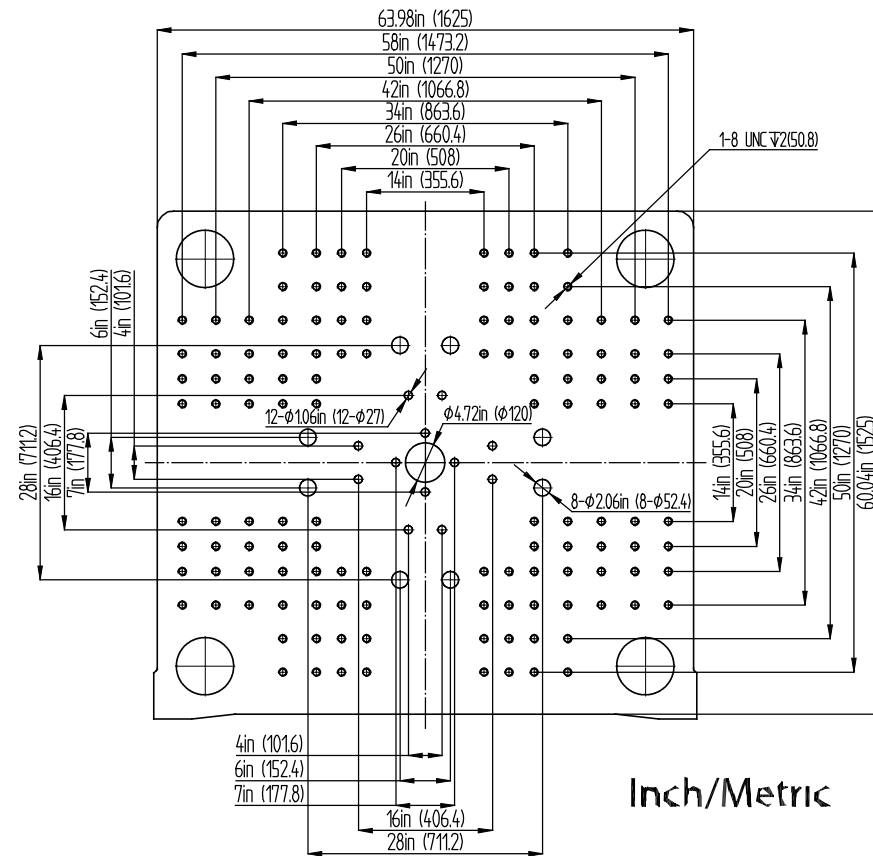
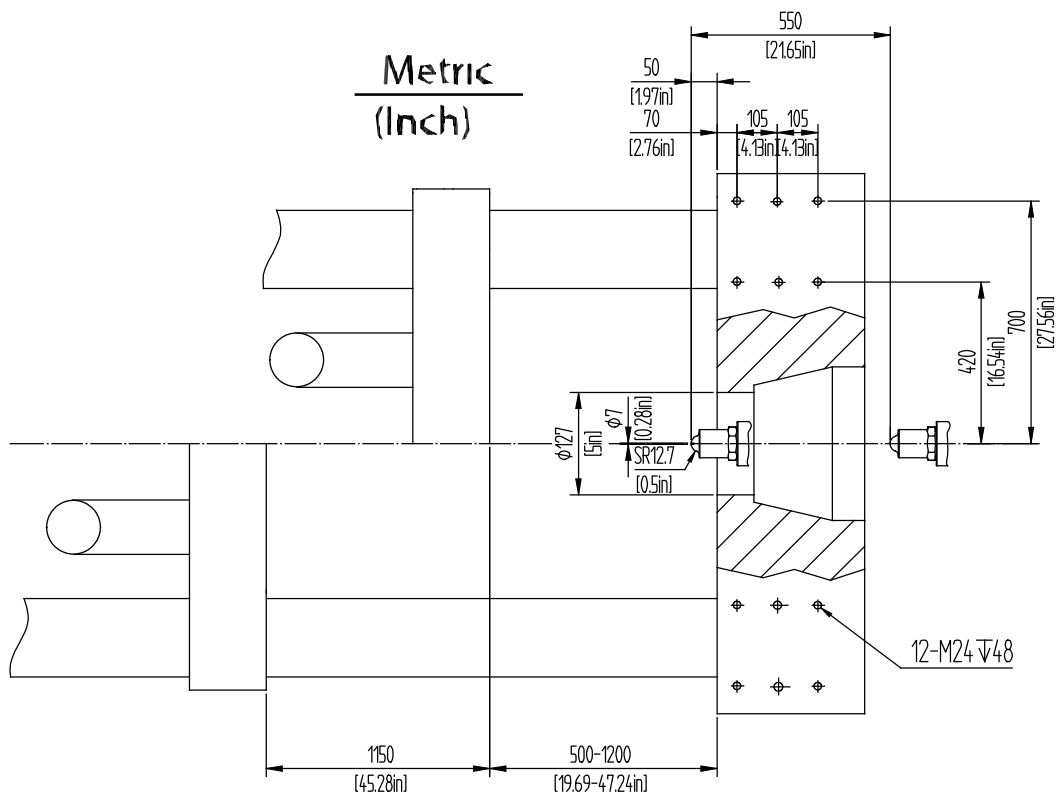


Inch/Metric

BL1000EKS

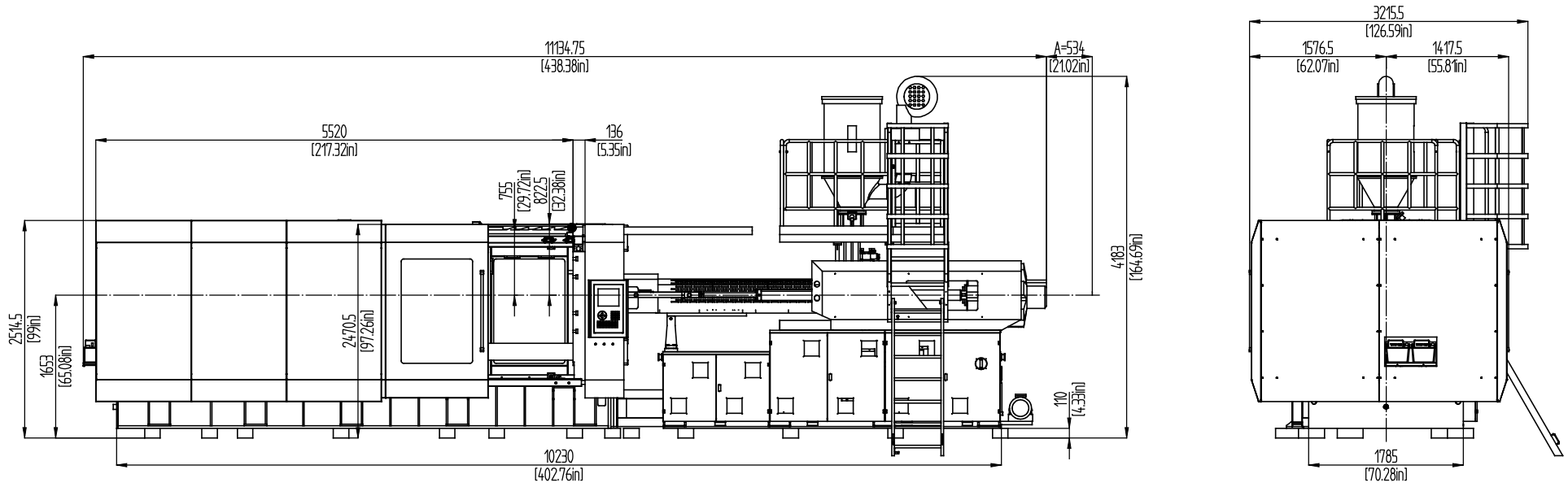


Metric
(Inch)

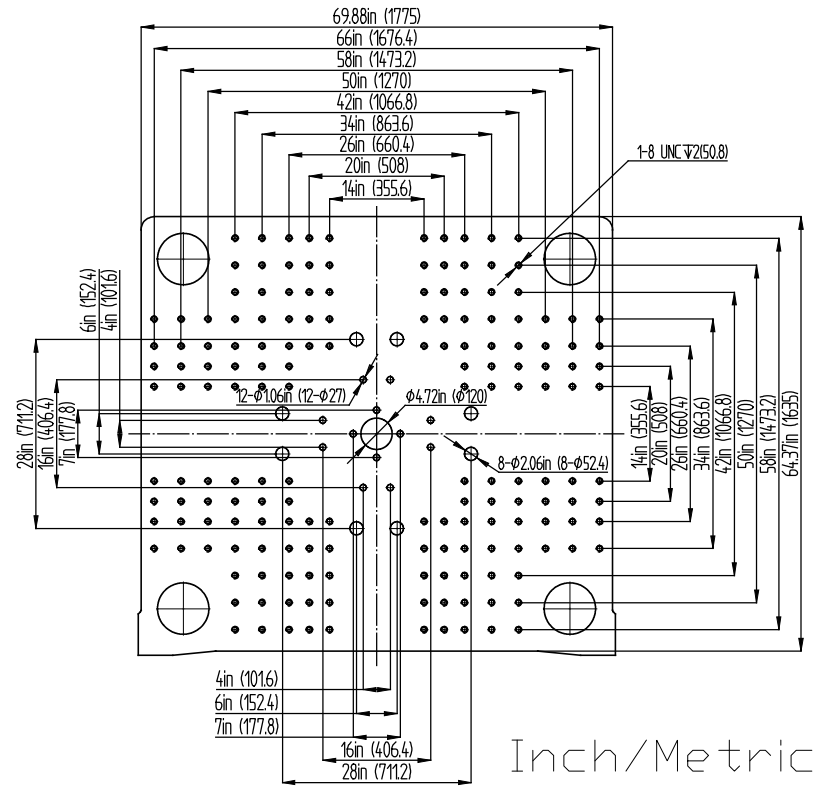
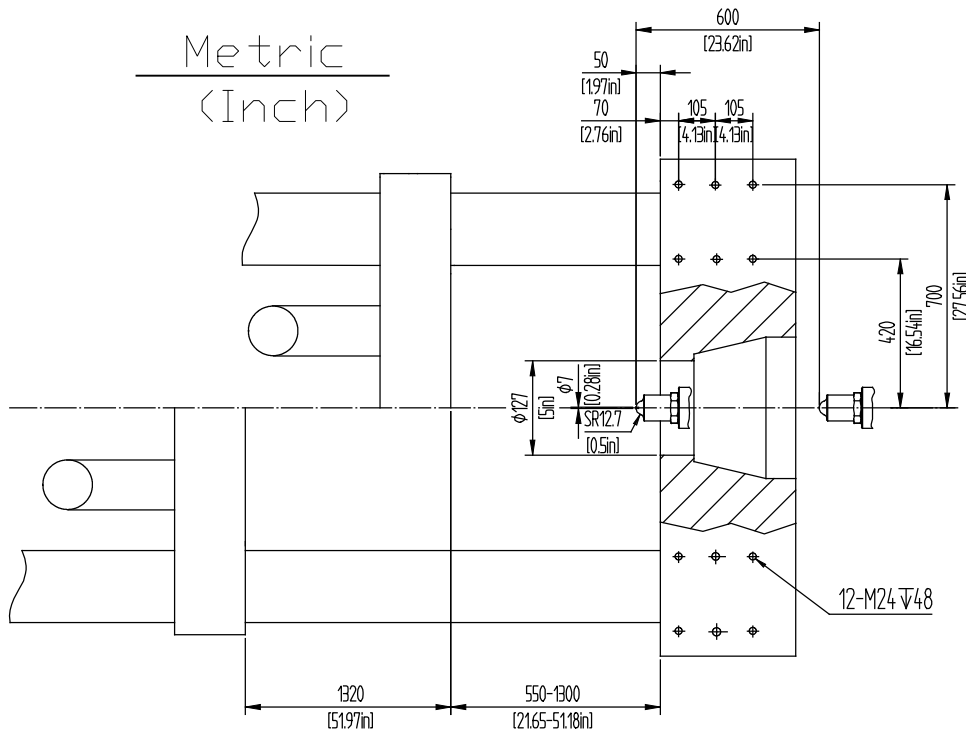


Inch/Metric

BL1200EKS

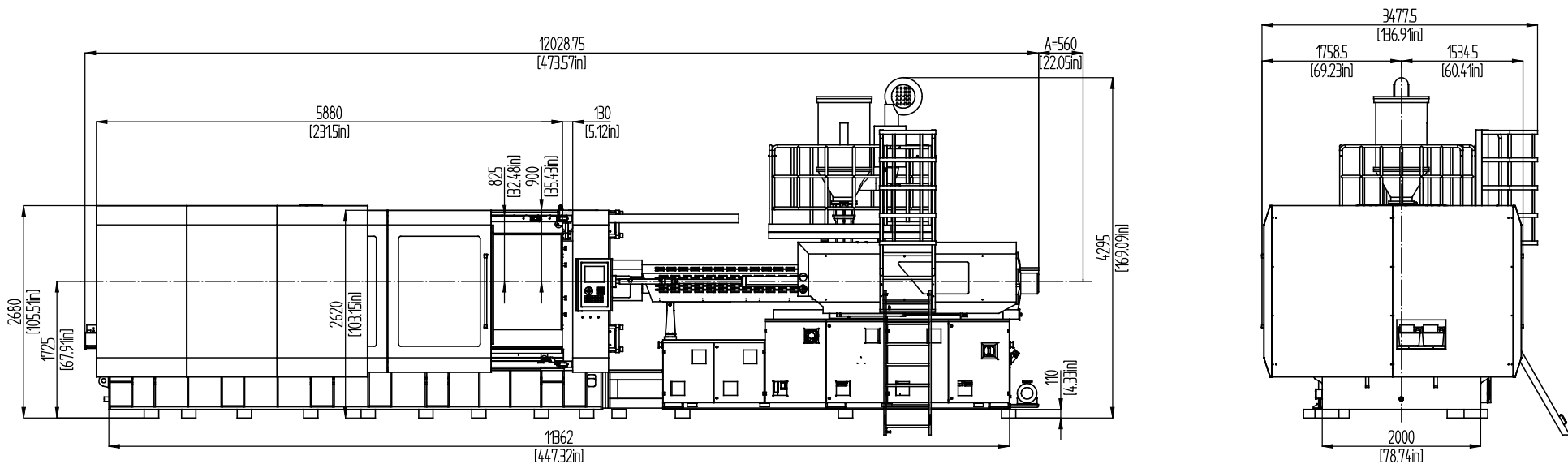


Metric
(Inch)

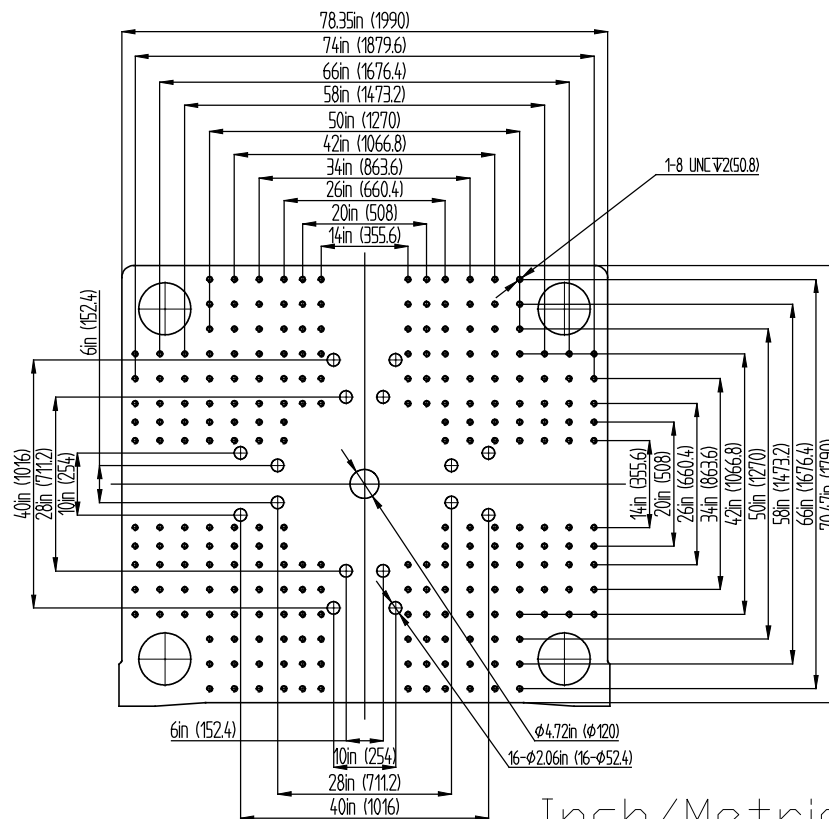
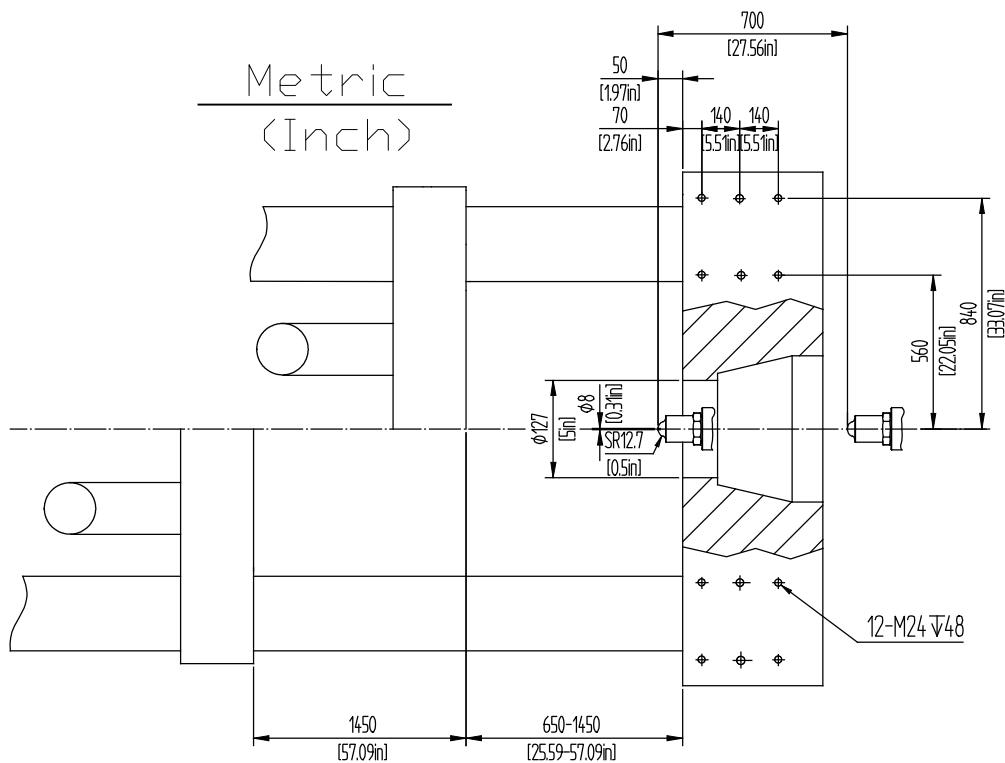


Inch/Metric

BL1400EKS

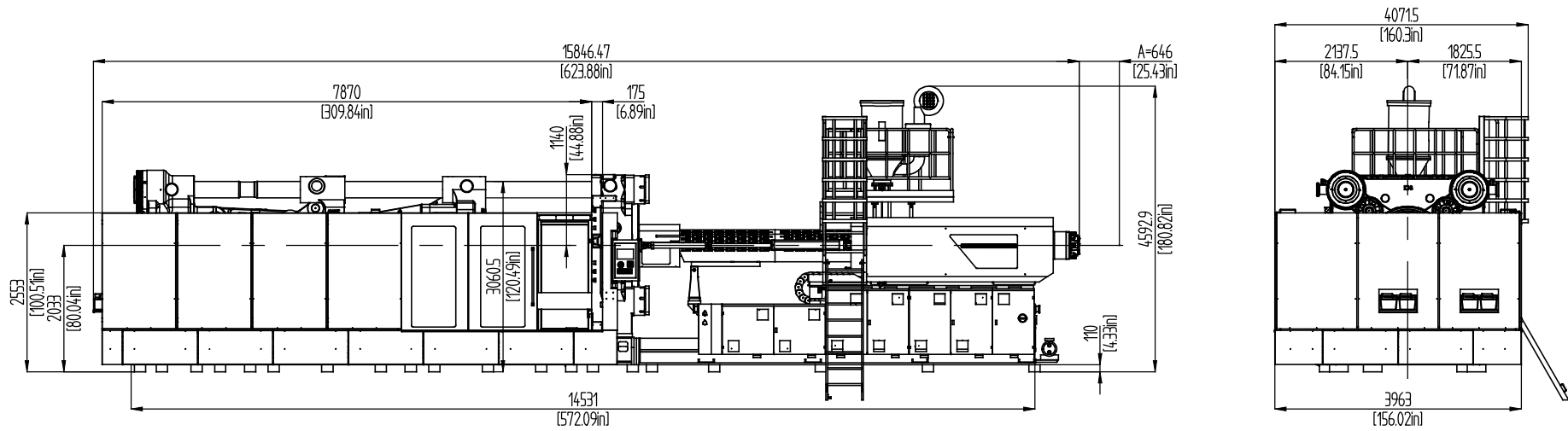


Metric
(Inch)

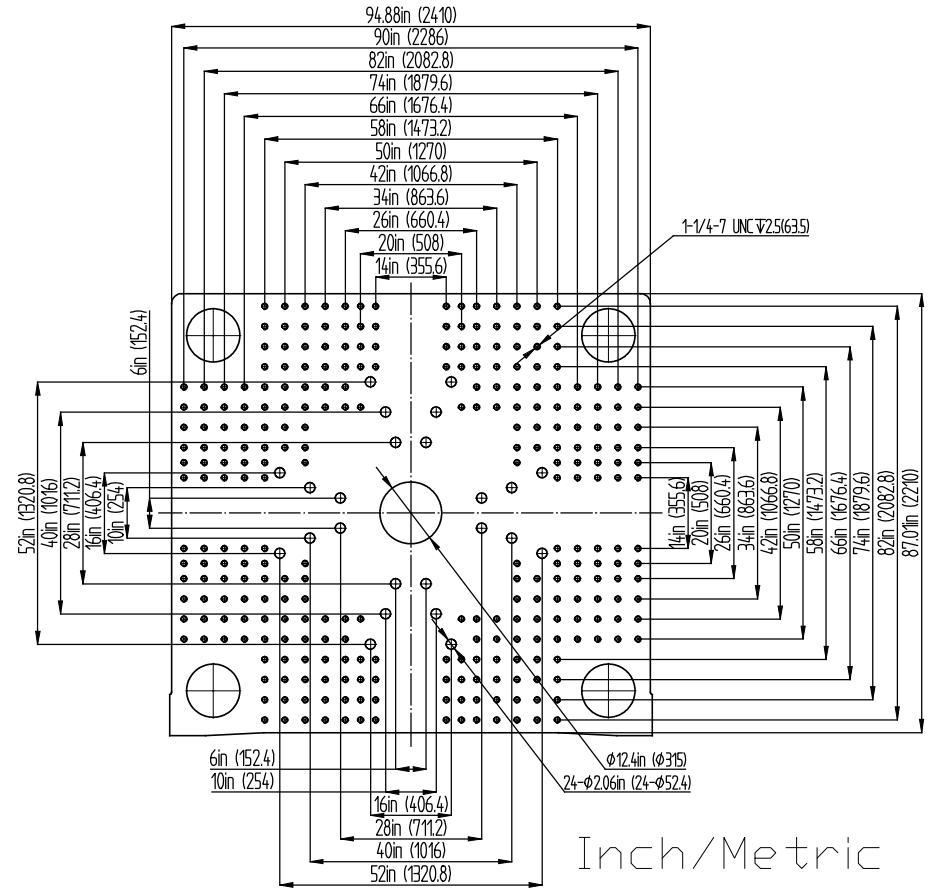
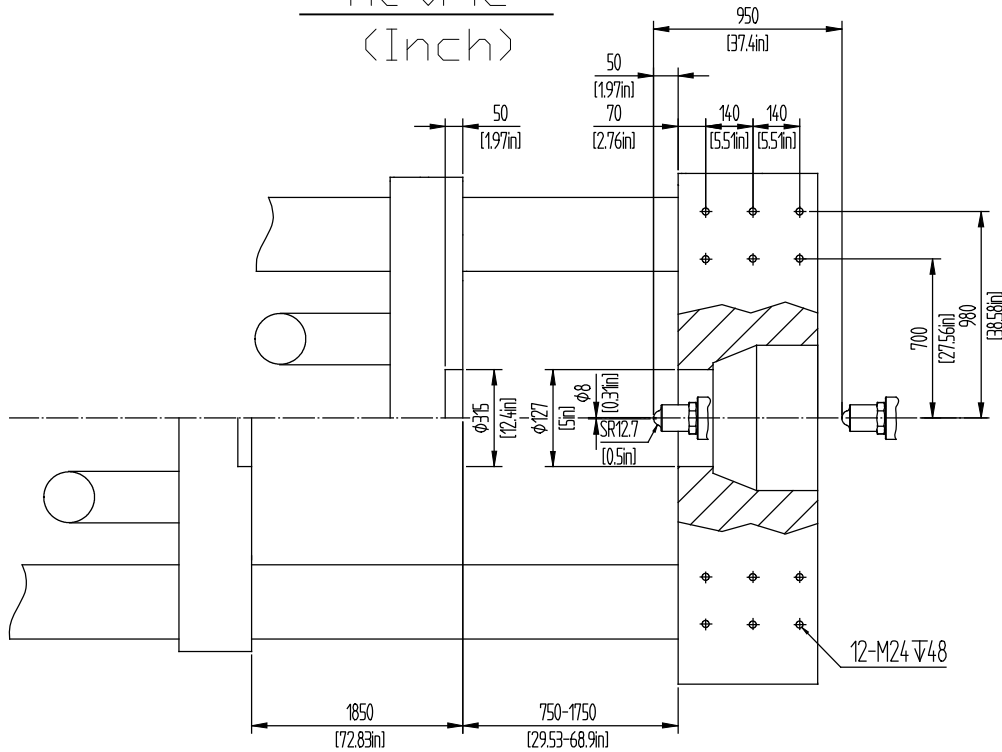


Inch/Metric

BL2200EKS

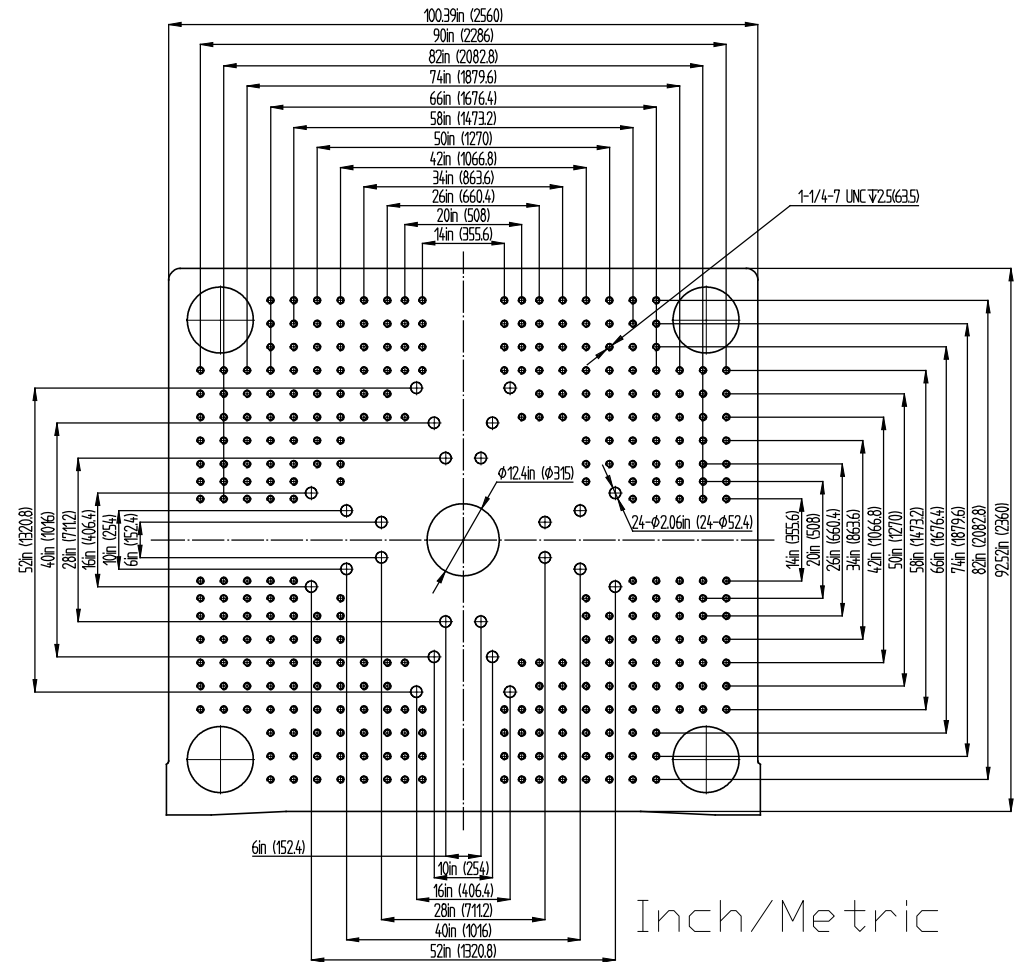
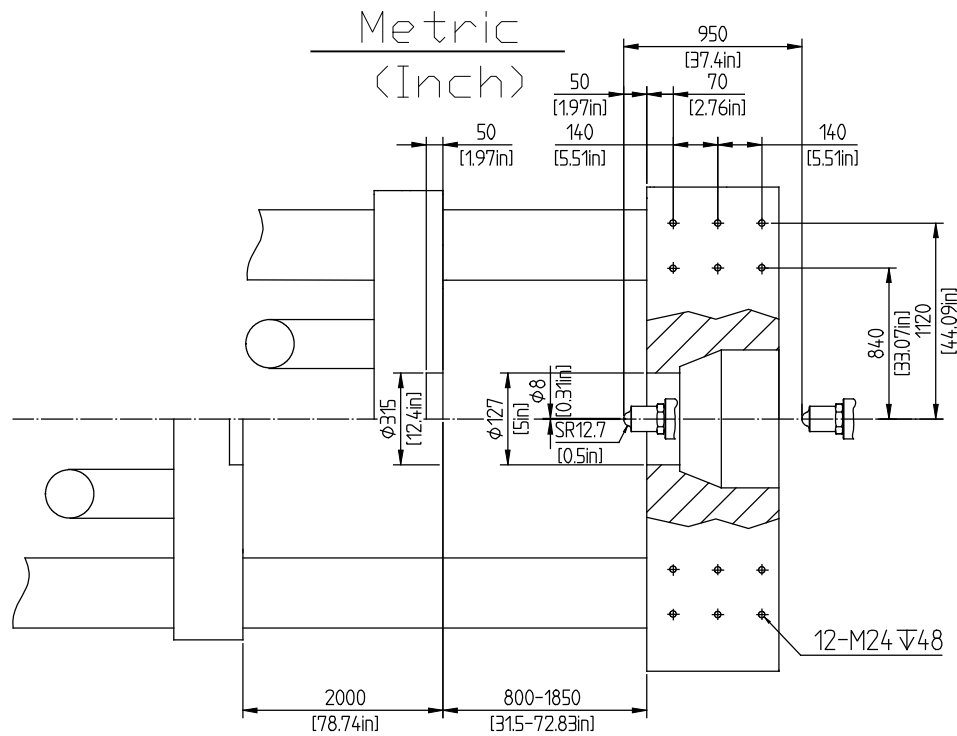
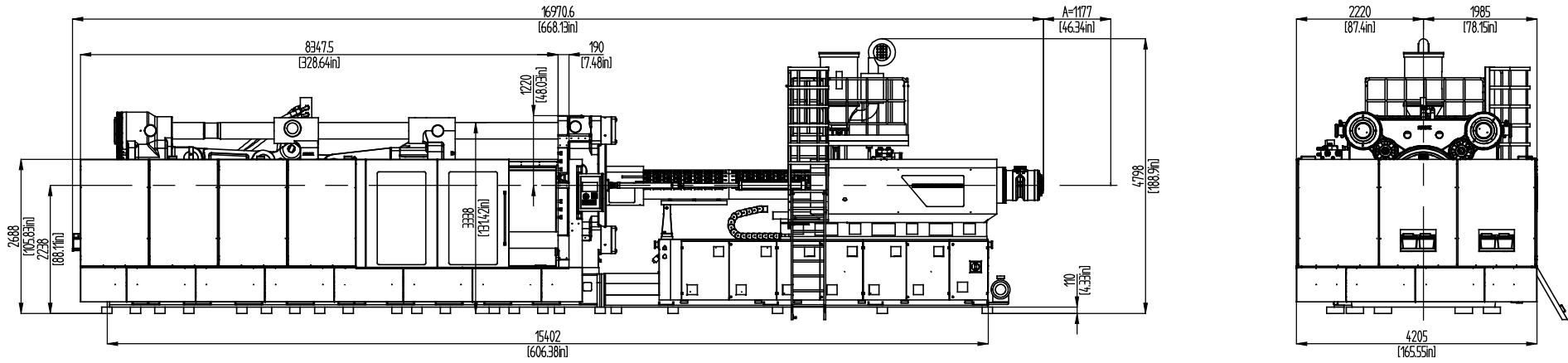


Metric
(Inch)



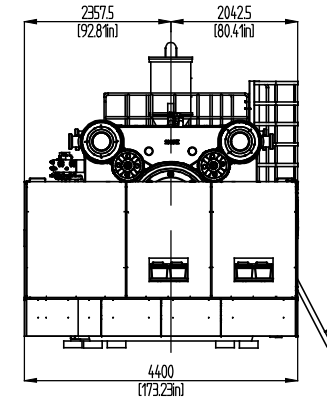
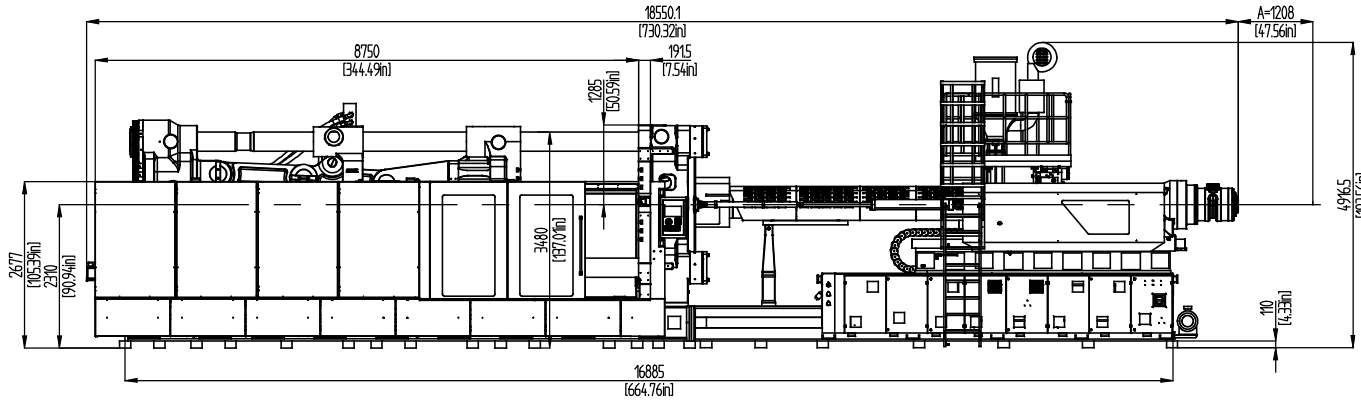
Inch/Metric

BL2500EKS

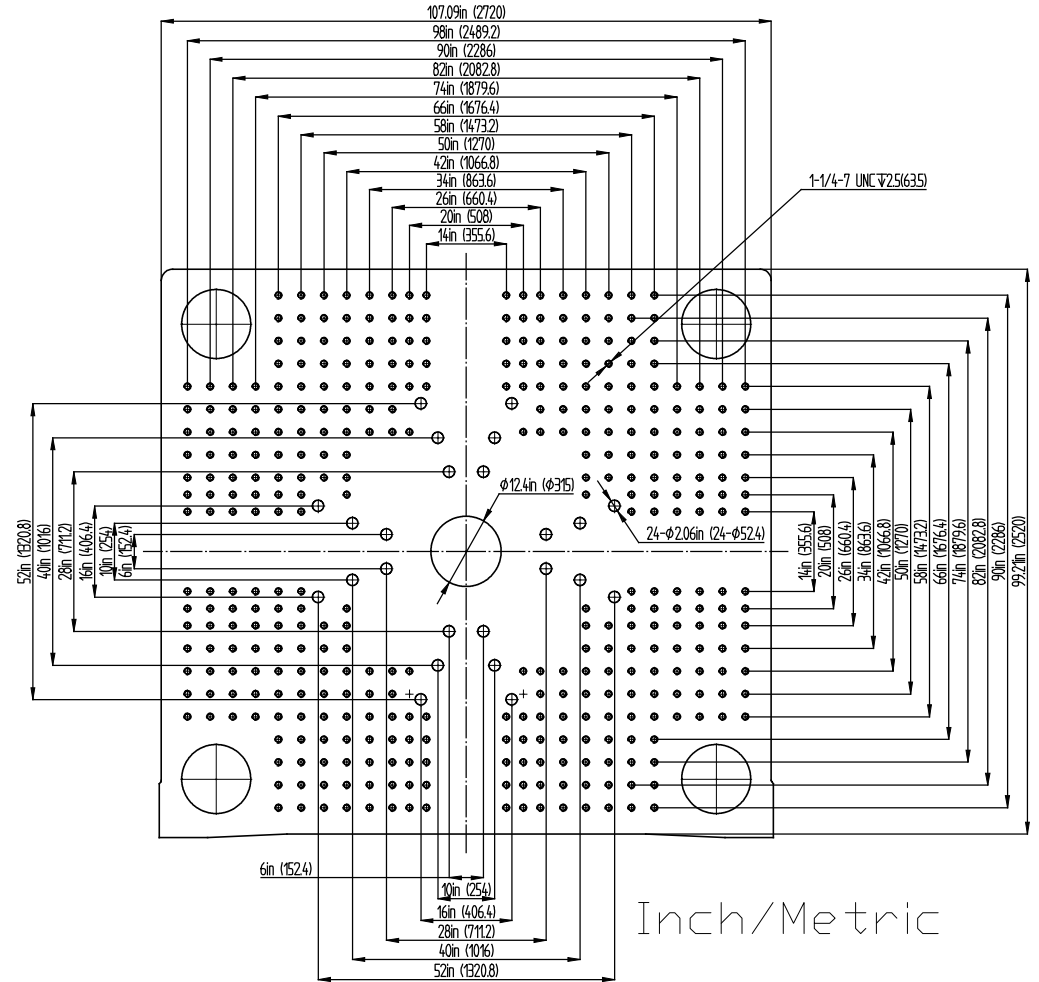
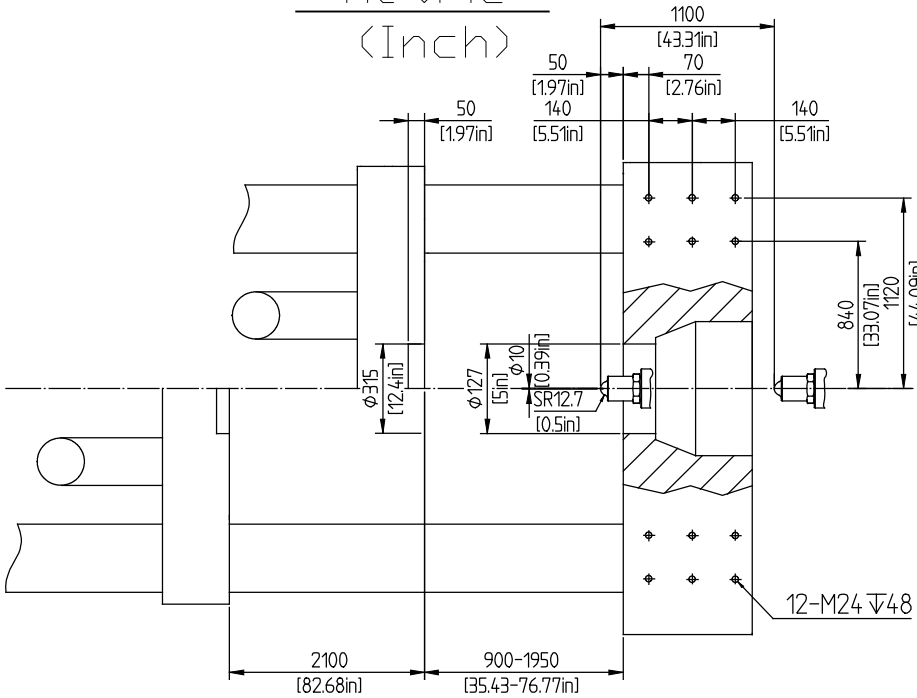


Inch/Metric

BL2800EKS

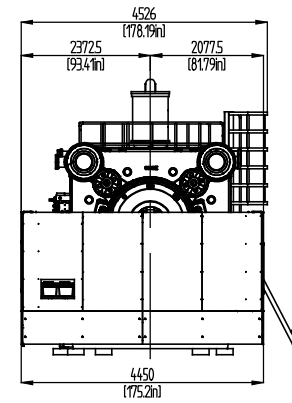
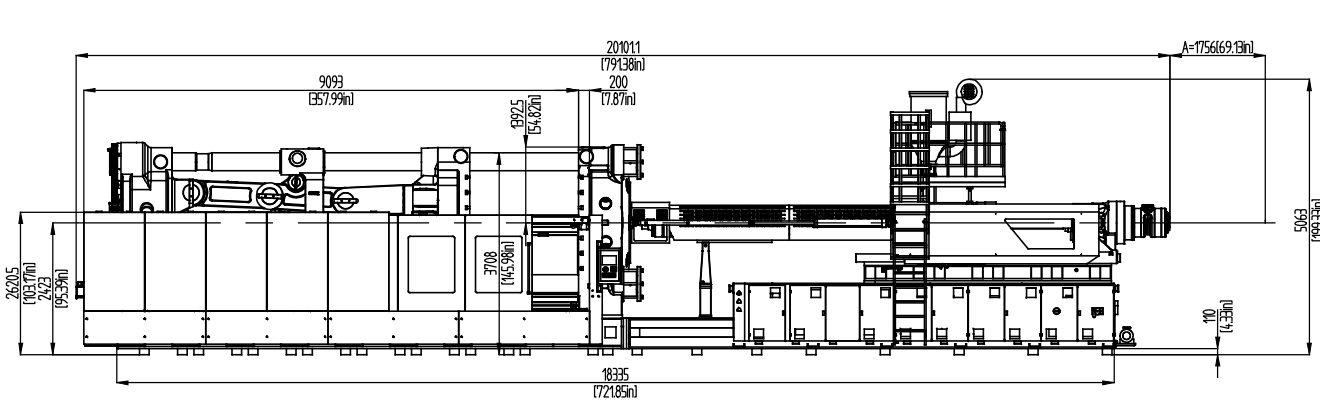


Metric
(Inch)

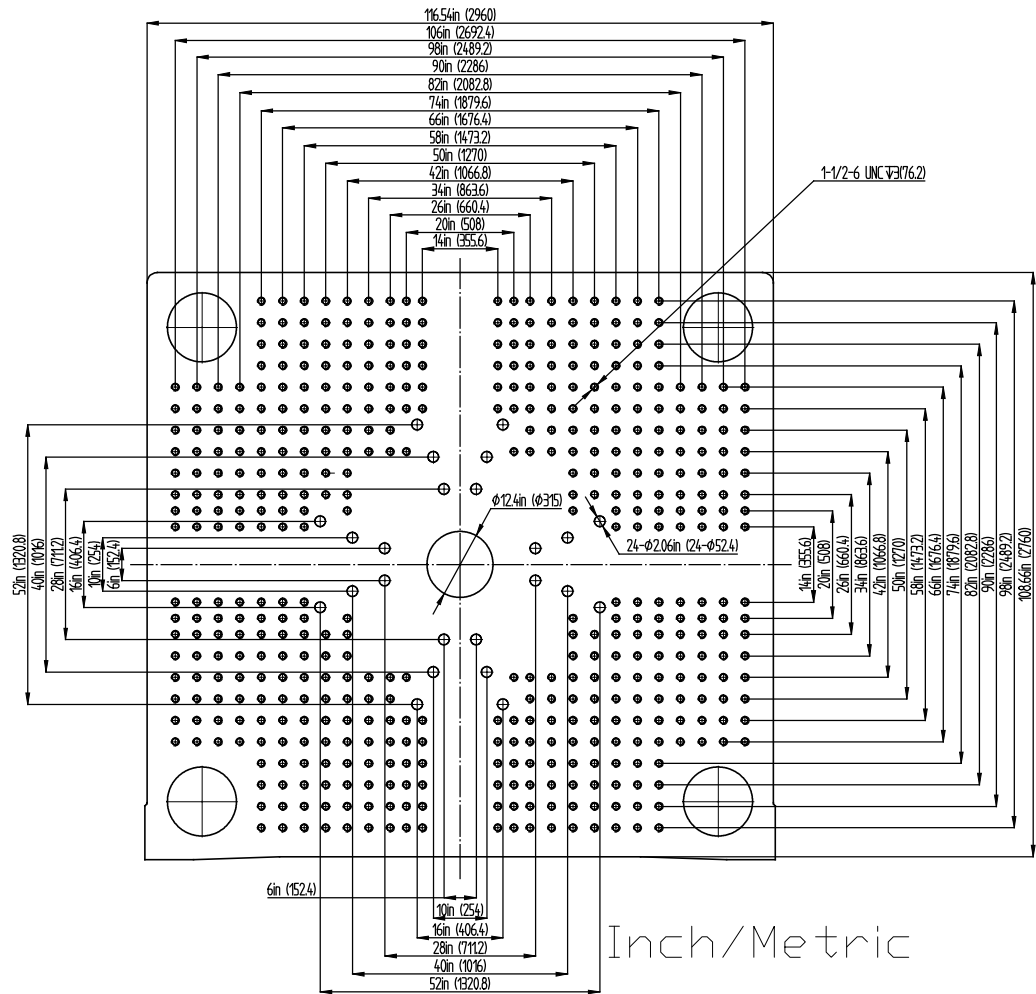
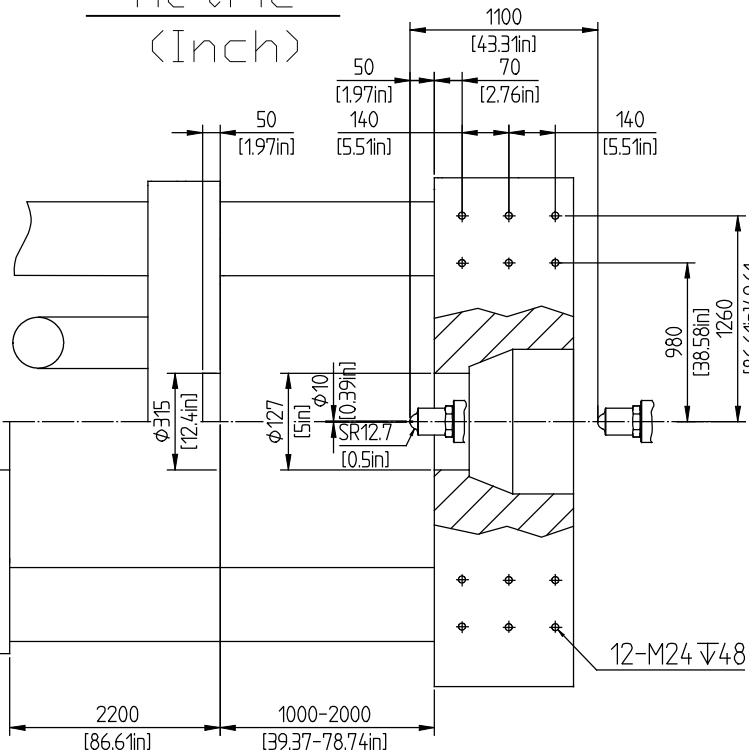


Inch/Metric

BL3300EKS

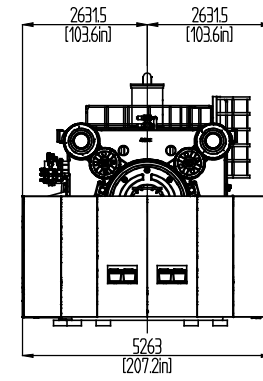
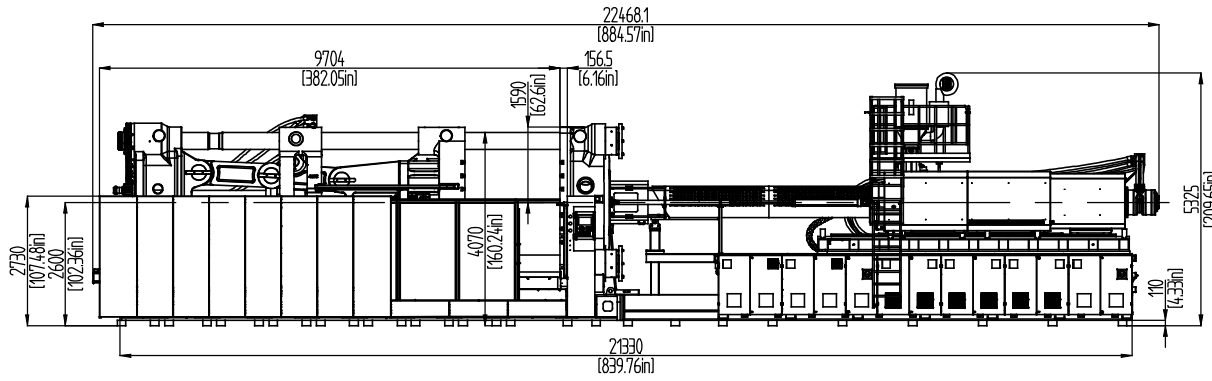


Metric
(Inch)

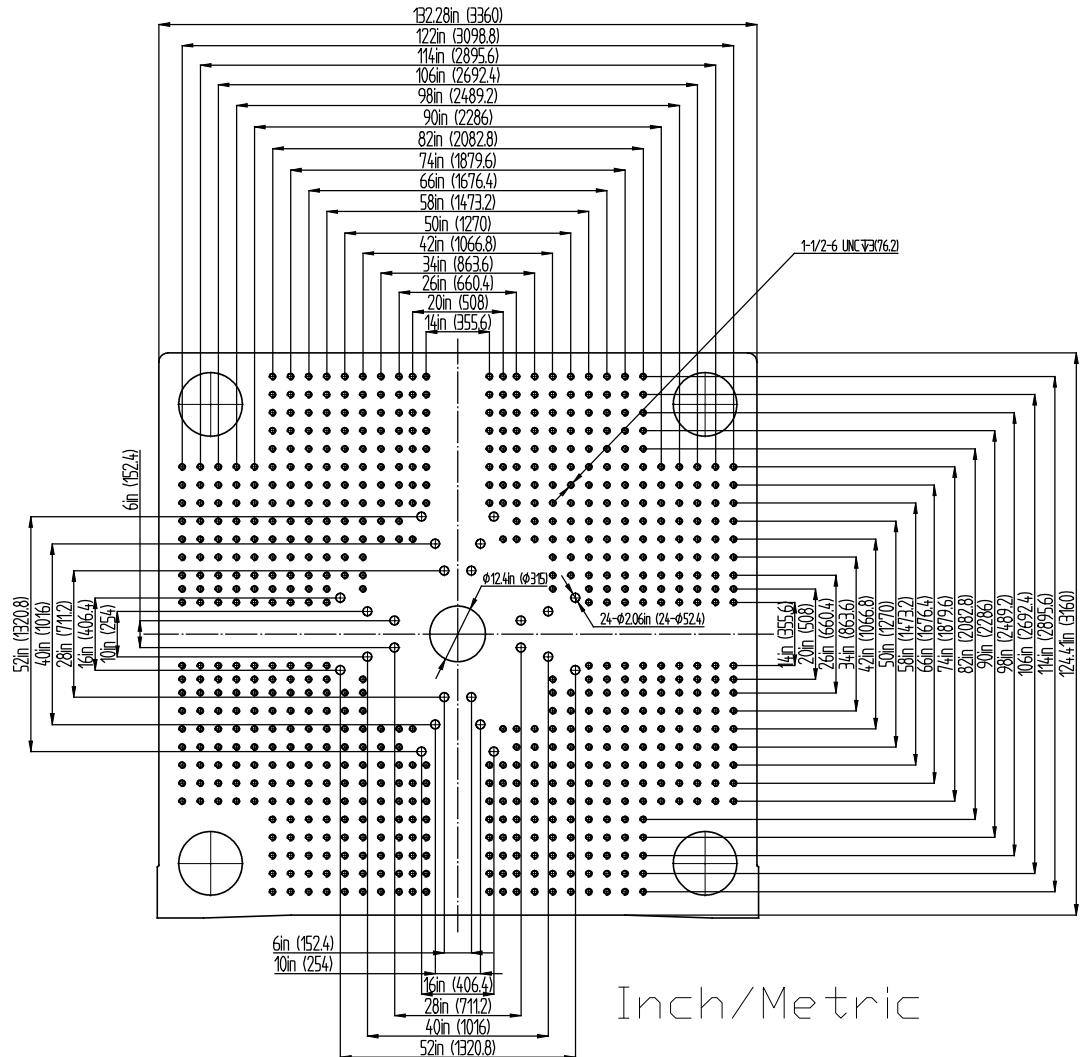
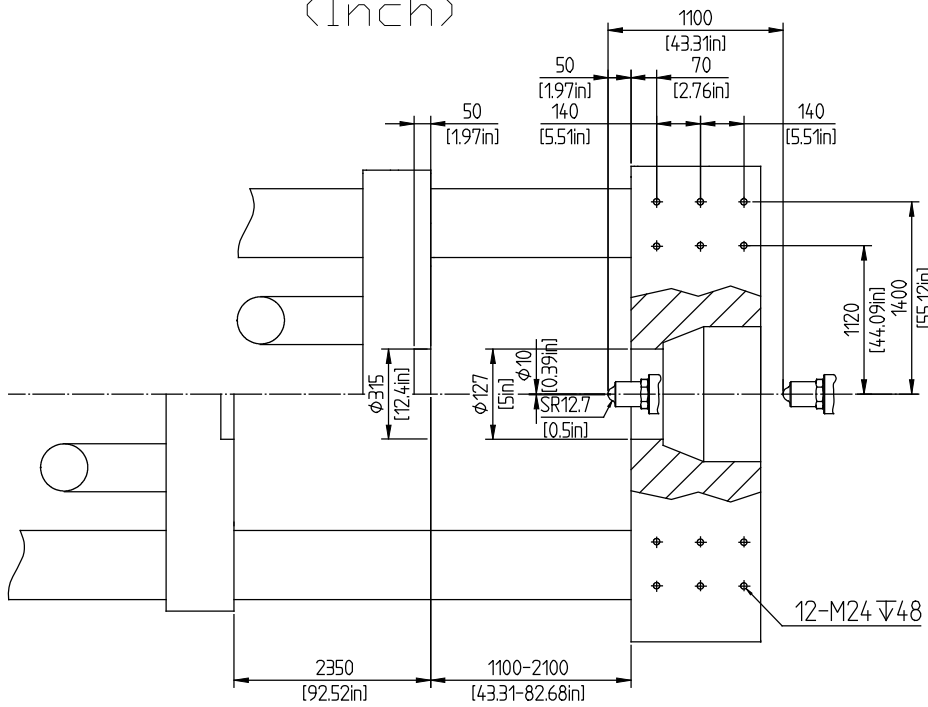


Inch/Metric

BL4000EKS



Metric
(Inch)



Inch/Metric