

Offices / Technical Support

Shibaura Machine

Ask us.

Shibaura Machine brings a depth of experience and expertise to help you create the ideal molding solution. With locations across the country, plus on-site assistance when you need hands-on help, you get the customer assistance and technical support to help you excel.

Shibaura Machine Company, America – Chicago Head Office

755 Greenleaf Avenue
Elk Grove Village, IL 60007 USA
Ph: 888-593-1616
Email: im-insidesales@shibaura-machine.com
Sales, Service, Technical Center and Technical Support

Shibaura Machine Company, America – Los Angeles Office

1440 South Balboa Avenue
Ontario, CA 91761 USA
Ph: 888-593-1616
Email: im-insidesales@shibaura-machine.com
Sales, Service, Technical Center and Technical Support

Shibaura Machine Company, America – New Jersey Office

1578 Sussex Turnpike South
Randolph, NJ 07869 USA
Ph: 888-593-1616
Email: im-insidesales@shibaura-machine.com
Sales, Service, Technical Center and Technical Support

Shibaura Machine Company, Canada Ltd – Canada Office

6 Shields Court, Suite 101
Markham, ON L3R 4S1 Canada
Ph: 888-593-1616
Email: im-insidesales@shibaura-machine.com
Sales, Service, Technical Center and Technical Support

Shibaura Machine Company, América – Mexico Office

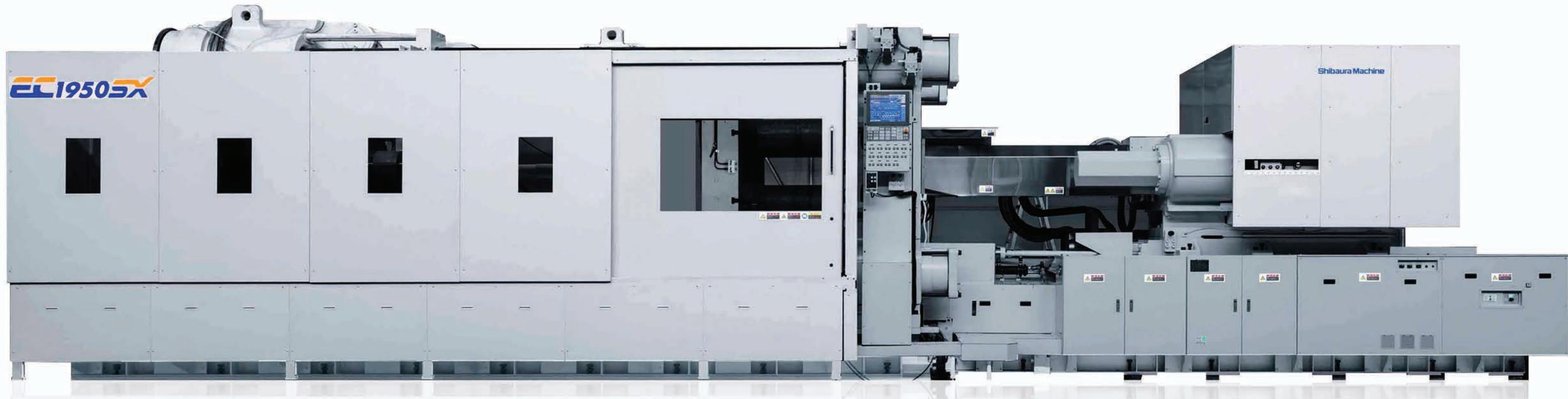
Circuito Luxma No. 115, Polígono Industrial Mileno, 37290
León, Gto, Mexico
Ph: (52) 477-101-8600
Email: im-insidesales@shibaura-machine.com
Sales, Service, Technical Center and Technical Support

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www.Shibaura-Machine.com



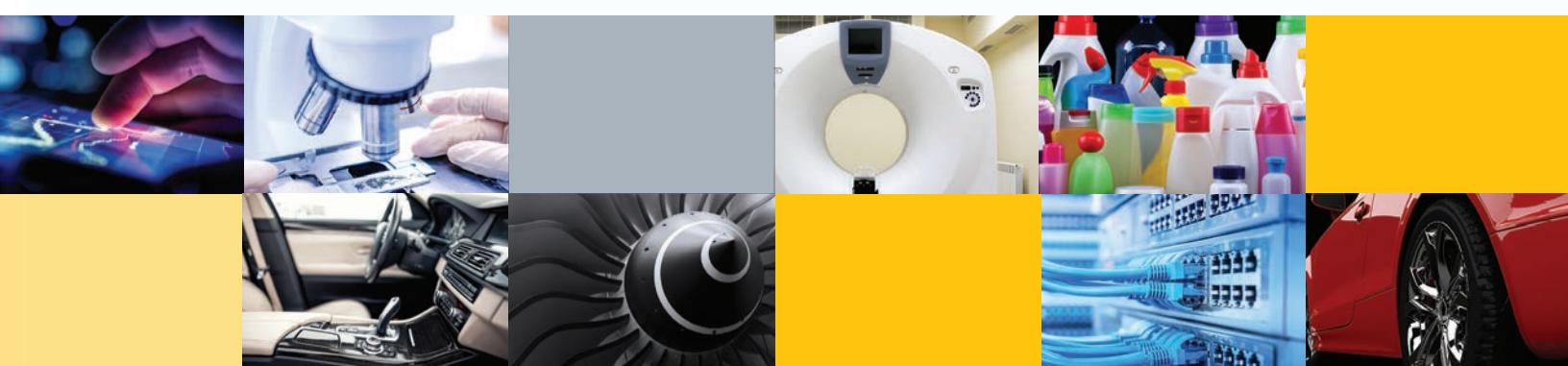
Meet the Next Generation of Electrics



The ECSXII from Shibaura Machine

In 2010, Shibaura Machine revolutionized injection molding with the ECSX series of electrics. The powerhouse of injection molding, it not only gave molders faster dry cycle times, longer mold life and more uniform clamping force, but more shot sizes from a single machine and the most advanced controller on the market.

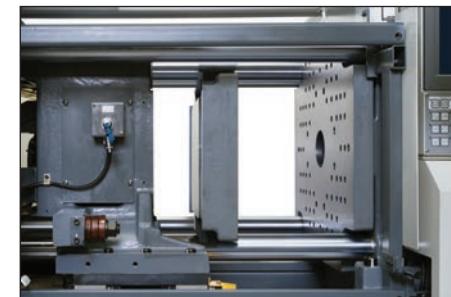
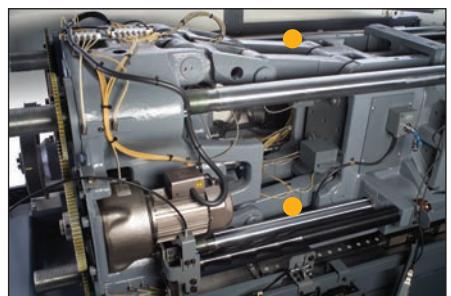
Now we've taken the next step. Introducing the all-new ECSXII – electrics with the same versatility and performance, along with a streamlined frame design, significantly faster injection speeds and new features making your investment work harder and smarter. Extremely flexible and versatile, the new ECSXII is ideal for virtually all molding applications, from automotive and aerospace, to packaging, medical and more.



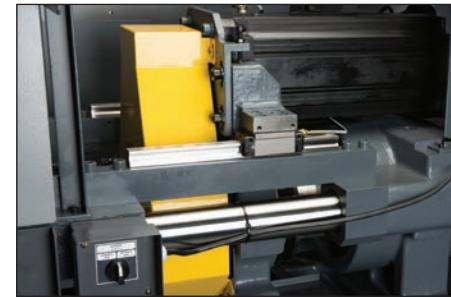
Features & Benefits



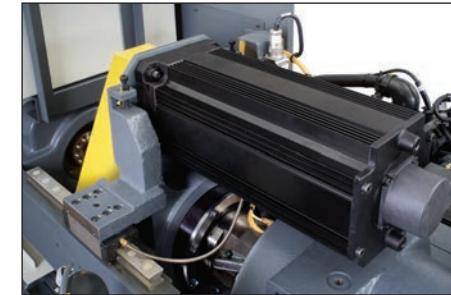
The ECSXII's 5-point Link-line toggle mechanism is angled to distribute force evenly across the platen, increasing quality and minimizing defects. It has the added benefit of extending mold life and reducing machine maintenance.



On 30 - 390 ton units the two-piece removable platens can be changed out in 15 minutes giving you extraordinary flexibility. On larger units the moving platen is removable.



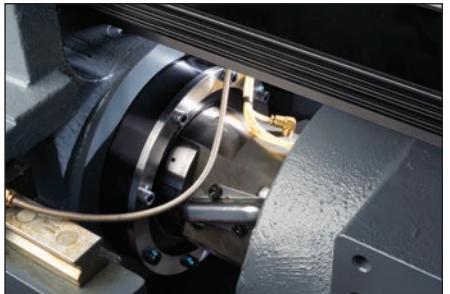
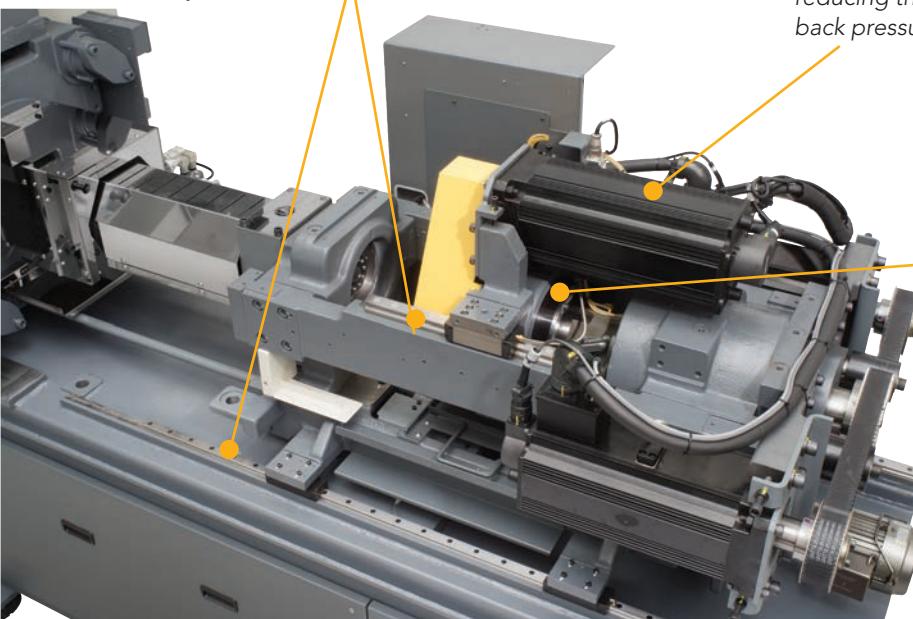
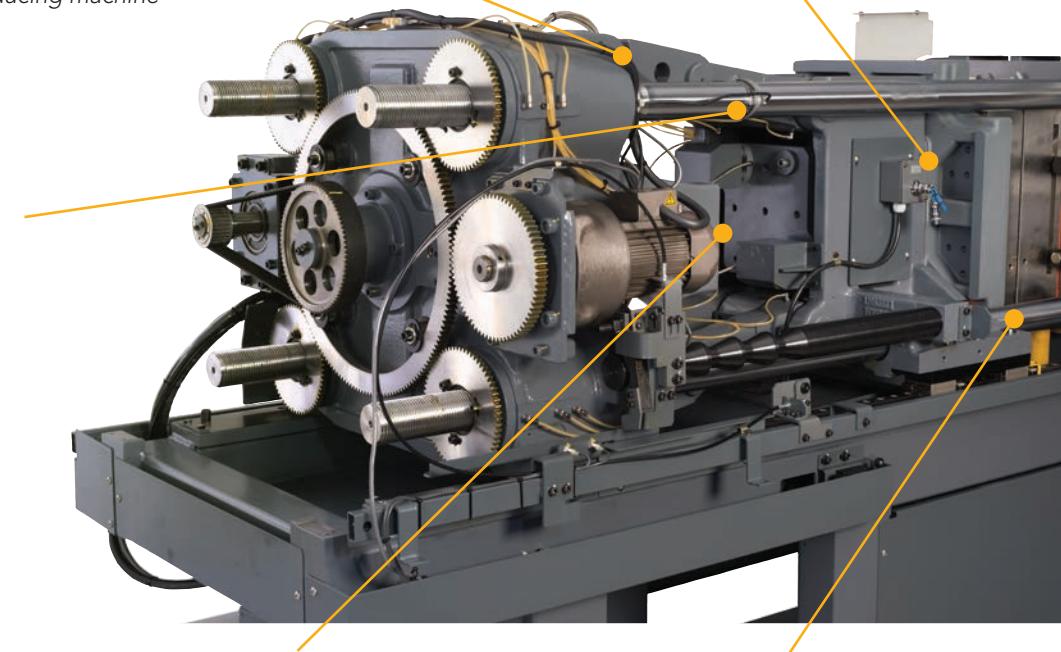
(S3) Simple, Steady, Smooth – Friction free drive system ensures more accurate injection speed and back pressure control, improving shot-to-shot repeatability throughout the processing cycle.



The heavy weight on the injection unit is supported on linear guides, greatly reducing the drag of injection and back pressure.



Strain gauge adjusts tonnage automatically and on the fly during the cycle. This ensures accurate tonnage at all times.



The ECSXII uses an advance load cell which ensures accurate control of injection pressure. In combination with the V50 controller, this load cell achieves Scientific Molding over the balance of the mold without the use of internal transducers.



Ball screws are designed to push heavier loads, spreading the load across a much larger surface area than conventional ball screws.



With bushing-free, grease-free tie bars, there's less chance of contaminating molded parts, increasing your shop's quality.



Easy access to tie in the ejection plate to the press, for faster, easier mold changes.



You can now fit hydraulic power units directly under the ECSXII, thanks to the machine's redesigned, space-saving frame (power units not included). Its streamlined design also allows easy access to electrical panels and components. (Note: 55-250 ton only.)

V50 Controller

Designed into the new ECSXII is the V50, Shibaura's advanced controller that uses real-time input to report molding conditions and make adjustments as needed, resulting in greater part repeatability and fewer rejects.

Molders already using Shibaura machines need little or no training to migrate to the V50 on the new ECSXII. Those who are new to the controller will find its bright, touchscreen programming intuitive and easy-to-use, shortening the learning curve while improving accuracy and productivity.

User customization

With the V50, you can easily customize machine cells without investing in additional OEM programming. Up to 40 user-programmable outputs are available.

The V50 also includes iPAQET Lite data management software. This value-added benefit enhances your investment by providing you with production monitoring, data collection and analysis, and more.

Clamping force dynamic self-tuning (DST-PRESS)

As an option setting, you can allow tie-bar strain sensors to automatically adjust clamping force based on direct feedback of changing molding conditions such as increased heat and expansion. This results in more consistent processing from shot-to-shot throughout the processing cycle.



Injection process condition dynamic self-tuning (DST-FILL)

You can further increase shot consistency by allowing the machine to automatically change barrel temperatures and transfer points to compensate for material viscosity fluctuations.

Additional molding control software

Virtual Hydraulic Injection (VHI) circuit – Replicates the hydraulic cascade effect to create more even flow rates into mold cavities.

High sensitivity 3-stage mold protection – Puts the machine into mold safety/shutdown when torque settings are exceeded during mold clamping.

Ejector torque monitor – Helps prevent tool and part damage.

Shorten Cycle Times with Simultaneous Motion – Standard on the ECSXII

Simultaneous motion is standard on the new ECSXII. Cycle times can be improved up to 30% with the combination of simultaneous motion and high speed movement.

Eject on the fly

Eject parts as the clamp opens, dramatically improving cycle times. In most cases, the mold opens and closes without a pause for ejection.

Lap sequence

Allows injecting as soon as the mold halves touch. Improves cycle time and venting of the tool.

Clamp relax

The clamp immediately relaxes during cooling, taking more time off the cycle.

Additional simultaneous sequences that shrink your cycle times

- Opening the mold while charging.
- Pulling the core in and out on the fly.

Stress reduction

Coining, which allows the injection to start at lower tonnage and increase to full tonnage during injection, reduces internal stress on the parts.

Repeatability at high speeds

Even at top speed, with multiple functions working seamlessly in tandem, there is no loss of precision or accuracy.

Scan to watch the ECSXII simultaneous motion technology in action.



Options for Greater Flexibility & Productivity



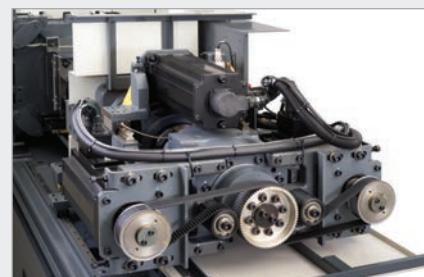
Add secondary units seamlessly

Easily retrofit the two-shot Mold Master secondary injection unit to any ECSXII. Use the stand-alone control for the greatest programming flexibility.



Boost productivity with FIDS

With Shibaura's new FIDS (flexible injection downsize system), you can easily adapt ECSXII machines down to shot sizes as small as 0.43 oz. (Application Specific)



Speed up injection

Optional twin motors are available to boost the ECSXII's injection speed up to 500 mm/sec. (Note: i17 injection unit and below).



Control on the V50 controller

Built-in Mold Master Hot Runner

Minimize your footprint by integrating the control panel into the machine, or controlling the Mold Master Hot Runner on the V50 controller.



Robot-ready

Installing a 6-axis robot on top of the ECSXII's stationary platen saves floor space and adds greater flexibility. (Robots sold separately).



Optional iPAQET Remote Monitoring Management Software

As an option, molders can upgrade to the full version of iPAQET, a powerful data management platform enabling you to monitor up to 48 molding machines from

any location in real-time. iPAQET also provides you with production monitoring, data collection and analysis, machine operation status, resin lot monitoring and more.

ECSXII Specifications

	ITEM	UNIT	EC30SXII				EC55SXII				EC85SXII								
CLAMP	Clamp Force	tf	30				50				75								
		US Ton	33				55				83								
	Tie Bar Distance	mm	320 x 290				410 x 360				410 x 360								
		in	12.6 x 11.4				16.1 x 14.2				16.1 x 14.2								
	Platen Dimension	mm	440 x 420				510 x 460				580 x 530								
		in	17.3 x 16.5				20.1 x 18.1				22.8 x 20.9								
	Clamp Stroke	mm	230				300				300								
		in	9.06				11.8				11.8								
	Maximum Daylight	mm	560				670				770								
		in	22.1				26.4				30.3								
INJECTION	Mold Height	Min. - Max	150 - 330				150 - 370				150 - 470								
		Min. - Max	5.9 - 13.0				5.9 - 14.5				5.9 - 18.5								
	Ejector Force	tf	0.8				2.0				2.0								
		US Ton	0.88				2.2				2.2								
	Ejector Stroke	mm	50				70				70								
		in	1.97				2.76				2.76								
	Injection Unit			i0.4				i1				U1.5							
	Barrel Code			0.4Y	0.4A	1YZ	1Y	1A	1YZ	1Y	1.5Y	1.5A	1Y	1.5Y	2Y	2A	2B		
GENERAL	Screw Diameter	mm	16	18	20	22	25	20	22	25	28	22	25	28	32	36			
		in	0.63	0.71	0.79	0.87	0.98	0.79	0.87	0.98	1.10	0.87	0.98	1.10	1.26	1.42			
	Injection Capacity	cm ³	14	18	31	38	49	31	38	55	69	38	55	78	102	130			
		in ³	0.88	1.12	1.92	2.32	3.00	1.92	2.32	3.35	4.21	2.32	3.35	4.81	6.28	7.95			
	Shot Volume	PS	g	13	16	29	35	45	29	35	51	63	35	51	72	94	120		
		oz	0.46	0.56	1.02	1.23	1.59	1.02	1.23	1.80	2.22	1.23	1.80	2.54	3.32	4.23			
	PE	g	10	13	23	28	36	23	28	40	50	28	40	57	75	95			
		oz	0.35	0.46	0.81	0.99	1.27	0.81	0.99	1.41	1.76	0.99	1.41	2.01	2.65	3.35			
	Maximum Injection Pressure			MPa	278	220	270	270	220	270	270	276	220	270	276	287	220	174	
	PSI			PSI	40300	31900	39200	39200	31900	39200	39200	40000	31900	39200	40000	41600	31900	25200	
	Maximum Holding Pressure			MPa	278	220	270	270	220	270	270	276	220	270	276	287	220	174	
	PSI			PSI	40300	31900	39200	39200	31900	39200	39200	40000	31900	39200	40000	41600	31900	25200	
	Injection Velocity			STD	mm/s	525	300				300				300				
	in/s				20.7	11.8				11.8				11.8					
	Injection Rate			STD	cm ³ /s	106	134	94	114	147	94	114	147	184	114	147	184	241	305
					in ³ /s	6.47	8.18	5.74	6.96	8.97	5.74	6.96	8.97	11.23	6.96	8.97	11.23	14.71	18.61
	Injection Velocity			HIGH	mm/s	-	500				500				500				
					in/s	-	19.7				19.7				19.7				

ECSXII Specifications

	ITEM	UNIT	EC110SXII						EC140SXII										
CLAMP	Clamp Force	tf	100						130										
		US Ton	110						143										
	Tie Bar Distance	H x V	mm	460 x 410						510 x 460									
		H x V	in	18.1 x 16.1						20.1 x 18.1									
	Platen Dimension	H x V	mm	660 x 610						720 x 670									
		H x V	in	26.0 x 24.0						28.3 x 26.4									
	Clamp Stroke	mm	350						400										
		in	13.8						15.7										
	Maximum Daylight	mm	900						950										
		in	35.4						37.4										
	Mold Height	Min. - Max	mm	180 - 550						180 - 550									
		Min. - Max	in	7.1 - 21.7						7.1 - 21.7									
EJECTOR	Ejector Force	tf	3.0						3.0										
		US Ton	3.3						3.3										
	Ejector Stroke	mm	90						90										
		in	3.54						3.54										
INJECTION																			
	Injection Unit		U32			U34			U34										
	Barrel Code		2Y	2A	2B	2Y	2A	4Y	4A	4B	2Y	2A	4Y	4A	4B				
	Screw Diameter		mm	28	32	36	28	32	36	40	45	28	32	36	40	45			
	Screw Diameter		in	1.10	1.26	1.42	1.10	1.26	1.42	1.57	1.77	1.10	1.26	1.42	1.57	1.77			
	Injection Capacity		cm³	78	102	130	78	102	162	201	254	78	102	162	201	254			
	Injection Capacity		in³	4.81	6.28	7.95	4.81	6.28	9.94	12.3	15.5	4.81	6.28	9.94	12.3	15.5			
	Shot Volume	PS	g	72	94	120	72	94	145	180	230	72	94	145	180	230			
			oz	2.54	3.32	4.23	2.54	3.32	5.11	6.35	8.11	2.54	3.32	5.11	6.35	8.11			
	Shot Volume	PE	g	57	75	95	57	75	115	145	185	57	75	115	145	185			
			oz	2.01	2.65	3.35	2.01	2.65	4.06	5.11	6.52	2.01	2.65	4.06	5.11	6.52			
	Maximum Injection Pressure		MPa	287	220	174	287	220	247	200	158	287	220	247	200	158			
	Maximum Injection Pressure		PSI	41600	31900	25200	41600	31900	35800	29000	22900	41600	31900	35800	29000	22900			
	Maximum Holding Pressure		MPa	287	220	174	287	220	247	200	158	287	220	247	200	158			
	Maximum Holding Pressure		PSI	41600	31900	25200	41600	31900	35800	29000	22900	41600	31900	35800	29000	22900			
	Injection Velocity	STD	mm/s	300			300			300			300						
			in/s	11.8			11.8			11.8			11.8						
	Injection Rate	STD	cm³/s	184	241	305	184	241	305	376	477	184	241	305	376	477			
			in³/s	11.23	14.71	18.61	11.23	14.71	18.61	22.94	29.11	11.23	14.71	18.61	22.94	29.11			
	Injection Velocity	HIGH	mm/s	500			500			400			500						
			in/s	19.7			19.7			15.7			19.7						
	Injection Rate	HIGH	cm³/s	308	402	509	308	402	407	502	636	308	402	407	502	636			
			in³/s	18.8	24.5	31.1	18.8	24.5	24.84	30.6	38.8	18.8	24.5	24.84	30.6	38.8			
	Plasticizing Capacity	PS	g/sec	11.1	16.9	23.1	11.1	16.9	23.1	30.6	33.3	11.1	16.9	23.1	30.6	33.3			
			oz/sec	0.39	0.60	0.81	0.39	0.60	0.81	1.1	1.2	0.39	0.60	0.81	1.1	1.2			
	Screw Speed		RPM	400	3														

ECSXII Specifications

	ITEM		UNIT	EC250SXII							
CLAMP	Clamp Force		tf	230							
	Tie Bar Distance		US Ton	254							
	Tie Bar Distance	H x V	mm	610 x 560							
		H x V	in	24.0 x 22.0							
	Platen Dimension	H x V	mm	880 x 830							
		H x V	in	34.6 x 32.7							
	Clamp Stroke		mm	550							
			in	21.7							
	Maximum Daylight		mm	1230							
			in	48.4							
	Mold Height	Min. - Max	mm	250 - 680							
		Min. - Max	in	9.84 - 26.8							
	Ejector Force		tf	5.0							
			US Ton	5.5							
	Ejector Stroke		mm	130							
			in	5.12							
INJECTION	Injection Unit*		U48			U5					
	Barrel Code		4Y	6Y	8Y	8A	8B	17Y	17AT	17B	
	Screw Diameter		mm	36	40	45	50	55	50	60	
			in	1.42	1.57	1.77	1.97	2.17	1.97	2.36	
	Injection Capacity		cm³	162	226	318	392	475	589	848	
			in³	9.94	13.8	19.4	24.0	29.0	35.9	51.8	
	Shot Volume	PS	g	145	208	292	361	437	542	780	
			oz	5.11	7.34	10.30	12.78	15.4	19.1	27.5	
		PE	g	115	165	232	286	347	430	619	
			oz	4.06	5.82	8.18	10.09	12.2	15.20	21.8	
	Maximum Injection Pressure		MPa	247	253	247	200	165	288	200	
			PSI	35800	36700	35800	29000	23900	41800	29000	
	Maximum Holding Pressure		MPa	247	253	247	200	165	288	200	
			PSI	35800	36700	35800	29000	23900	41800	29000	
	Injection Velocity	STD	mm/s	250			160				
			in/s	9.8			6.3				
	Injection Rate	STD	cm³/s	254	314	397	490	593	314	452	
			in³/s	15.5	19.2	24.23	29.90	36.2	19.2	27.6	
	Injection Velocity	HIGH	mm/s	400			350				
			in/s	15.7			13.8				
	Injection Rate	HIGH	cm³/s	407	502	556	687	831	589	848	
			in³/s	24.8	30.6	38.9	41.9	50.7	35.9	51.8	
	Plasticizing Capacity	STD	g/sec	23.1	30.6	33.3	44.4	52.8	44.4	63.9	
			oz/sec	0.81	1.1	1.18	1.57	1.86	1.57	2.25	
		HIGH	g/sec	-	-	-	-	-	52.8	64.6	
			oz/sec	-	-	-	-	-	1.86	2.28	
	Screw Speed	STD	RPM	350	320	285	255	230	255	220	
		HIGHTORQUE	RPM	-	-	-	-	-	180	155	
	Screw Torque	STD	Ibf-ft	417	561	780	1048	1048	1746	1746	
		HIGHTORQUE	Ibf-ft	-	-	-	-	-	2139	2139	
	Nozzle Touch Force		kN	29.4			29.4				
			US Ton	3.3			3.3				
GENERAL	Main Breaker Capacity	STD	A	125			175				
	Electric Capacity		kVA	45	59	61		61			
	Main Breaker Capacity	HIGH SPEED	A	175			225				
	Electric Capacity		kVA	61	75	81		103			
	Heater Capacity		kW	11.2	13.6	15.2	15.8	21.7	25.5		
	Machine Dimensions L x W x H		m	6.0x1.7x2.0	6.2x1.7x2.0	6.4 x 1.7 x 2.0		6.5 x 1.8 x 2.2	6.7 x 1.8 x 2.2		
			ft	19.6x5.4x6.4	20.4x5.4x6.4	21.0x5.4x6.5		21.1x5.4x7.1	21.6x5.4x7.1		
	Machine Weight		t	9.2			11.2				
			US Ton	10.2			12.3				

*EC250SXII-17 through EC610SXII-36 are equipped with built-in hydraulics for nozzle touch & single corepull.

Note: Specifications can change without notice. Contact Shibaura Machine for most current specifications.

ECSXII Specifications

	ITEM		UNIT	EC310SXII				EC390SXII			
CLAMP	Clamp Force		tf	280							350
	Tie Bar Distance		US Ton	309							385
	Tie Bar Distance	H x V	mm	730 x 660							820 x 740
		H x V	in	28.7 x 25.9							32.3 x 29.1
	Platen Dimension	H x V	mm	1030 x 960							1110 x 103

ECSXII Specifications

	ITEM	UNIT	EC500SXII				EC610SXII						
CLAMP	Clamp Force	tf	450				550						
		US Ton	496				606						
Tie Bar Distance	H x V	mm	870 x 810				970 x 910						
		in	34.2 x 31.8				38.1 x 35.8						
Platen Dimension	H x V	mm	1230 x 1160				1365 x 1300						
		in	48.4 x 45.7				53.7 x 51.2						
Clamp Stroke		mm	800				900						
		in	31.5				35.4						
Maximum Daylight		mm	1800				1900						
		in	70.9				74.8						
Mold Height	Min. - Max	mm	350 - 1000				400 - 1000						
		in	13.8 - 39.4				15.7 - 39.4						
Ejector Force		tf	13.0				13.0						
		US Ton	14.3				14.3						
Ejector Stroke		mm	180				180						
		in	7.1				7.1						
INJECTION													
	Injection Unit*		i17		i26		i36		i26				
	Barrel Code		Y	AT	B	AT	B	AT	B	AT			
	Screw Diameter		mm	50	60	70	70	80	90	70			
	in		in	1.97	2.36	2.76	2.76	3.15	3.54	2.76			
	Injection Capacity		cm³	589	848	1155	1340	1750	1880	2380			
	in³		in³	35.9	51.8	70.5	82.2	107	115	146			
	Shot Volume	PS	g	542	780	1063	1230	1610	1730	2190			
			oz	19.1	27.5	37.5	43.4	56.8	61.0	77.2			
	PE		g	430	619	843	980	1280	1370	1740			
			oz	15.2	21.8	29.7	34.6	45.1	48.3	61.4			
	Maximum Injection Pressure		MPa	288	200	147	190	145	190	145			
	PSI		PSI	41800	29000	21300	27600	21000	27600	21000			
	Maximum Holding Pressure		MPa	288	200	147	160	122	126	126			
	PSI		PSI	41800	29000	21300	23200	17700	23200	17700			
	Injection Velocity		mm/s	160		160		140		140			
	in/s		in/s	6.3		6.3		5.5		5.5			
	Injection Rate		STD	cm³/s	314	452	616	615	804	704	891		
	in³/s		STD	in³/s	19.2	27.6	37.6	37.6	49.1	42.9	54.4		
	Injection Velocity		HIGH	mm/s	300		-		-		-		
	in/s		HIGH	mm/s	11.8		-		-		-		
	Injection Rate		HIGH	cm³/s	589	848	1155	-	-	-	-		
	in³/s		HIGH	in³/s	35.9	51.8	70.5	-	-	-	-		
	Plasticizing Capacity		STD	g/sec	44.4	63.9	75.0	72.2	94.4	94.4	111.1		
	in³/sec		STD	oz/sec	1.57	2.25	2.65	2.55	3.33	3.33	3.92		
	Screw Speed		STD	RPM	255	220	180	180	170	170	150		
	HIGHTORQUE		STD	RPM	-	180	155	120	120	115	115		
	Screw Torque		STD	Ibf-ft	1048	1746	1746	1903	1903	2441	2441		
	HIGHTORQUE		STD	Ibf-ft	-	2139	2139	2441	2441	3400	3400		
	Nozzle Touch Force			kN	29.4		44.1		58.8		44.1		
				US Ton	3.3		5.0		6.0		5.0		
GENERAL													
	Main Breaker Capacity	STD	A	175		200		200		200			
	Electric Capacity	STD	kVA	76		83		89		84			
	Main Breaker Capacity	HIGH SPEED	A	225		-		-		-			
	Electric Capacity	HIGH SPEED	kVA	103		-		-		-			
	Heater Capacity		kW	21.7		25.5		26.5		34.3			
	Machine Dimensions L x W x H		m	8.1x2.2x2.2		8.1x2.2x2.2		8.6x2.2x4		8.6x2.2x4			
	Machine Weight		t	21.7		22.5		23.9		27.1			
	Machine Weight		US Ton	23.9		24.9		26.4		29.9			

*EC250SXII-17 through EC610SXII-36 are equipped with built-in hydraulics for nozzle touch & single corepull.

Note: Specifications can change without notice. Contact Shibaura Machine for most current specifications.

ECSX Specifications

	ITEM	UNIT
--	------	------

EC30SXI

Standard Features

Injection

- ▶ Open nozzle
 - ▶ Barrel - anti-corrosion/wear
 - ▶ Standard screw assembly, high kneading DBG design
 - ▶ Hopper inlet rust-preventive sleeve
 - ▶ Barrel heater
 - ▶ Friction-Free Drive
 - ▶ Digital load cell
 - ▶ Purge shield
 - ▶ Double heater cover
 - ▶ DST-Fill
 - ▶ Pressure linear correction
 - ▶ Programmed purge circuit
 - ▶ VHI control
 - ▶ FIT Control

Clamp

- ▶ Link-line toggle unit
 - ▶ Double rigid body platen
 - ▶ Mold platen
 - ▶ Locating hold
 - ▶ Movable platen supporting device
 - ▶ Mechanical safety device
 - ▶ Interface for dual hydraulic core pulls standard
 - ▶ Holes tapped for installation of take-out robot
 - ▶ Ejection servo motor with brake
 - ▶ Mold open while charging (simultaneous motion)
 - ▶ Automatic lubricator
 - ▶ Dynamic acceleration/deceleration control
 - ▶ DST-Press control

Controller

- ▶ Six programmable outputs standard
 - ▶ Step switch/ten key input
 - ▶ Setting data memory for 300 sets of molds
 - ▶ External interface SPI
 - ▶ Digital display
 - ▶ Graphic display

- ▶ Laminar control
 - ▶ ECSXII 12-Speed/8-pressure injection programmed control
 - ▶ Shift to hold mode selection
 - ▶ Shift to hold correction control
 - ▶ Injection speed FF control
 - ▶ Screw speed/back pressure programmed control
 - ▶ Automatic screw back pressure reduction control
 - ▶ Automatic charging deceleration control
 - ▶ Decompress before/after charge
 - ▶ Charge delay timer
 - ▶ Screw cold start prevention device
 - ▶ Heater SSR control
 - ▶ Heater band failure indicating circuit
 - ▶ Hopper Throat temperature controller
 - ▶ Barrel temperature FF control
 - ▶ Programmed heat-up circuit
 - ▶ Simultaneous barrel heat-up control
 - ▶ Barrel Temperature shift circuit
 - ▶ Retention resin overheat prevention circuit
 - ▶ Manual back pressure setting
 - ▶ Quick change heater disconnects

Quick change heater disconnects



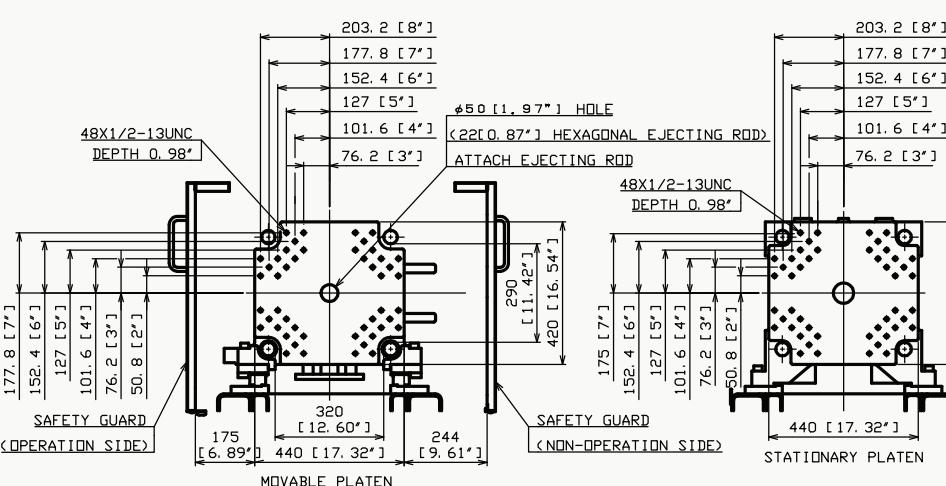
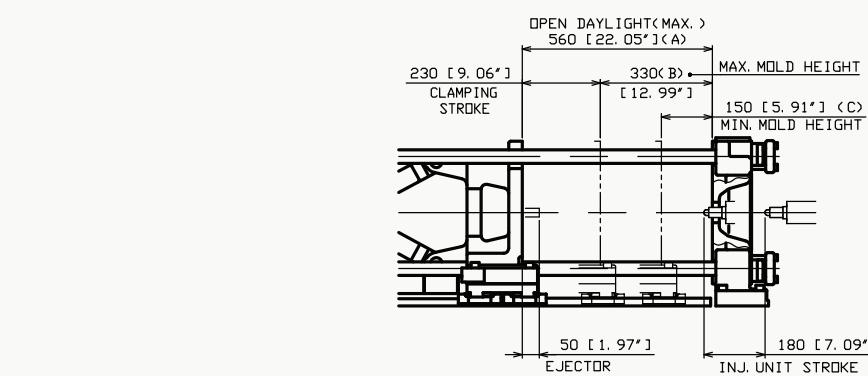
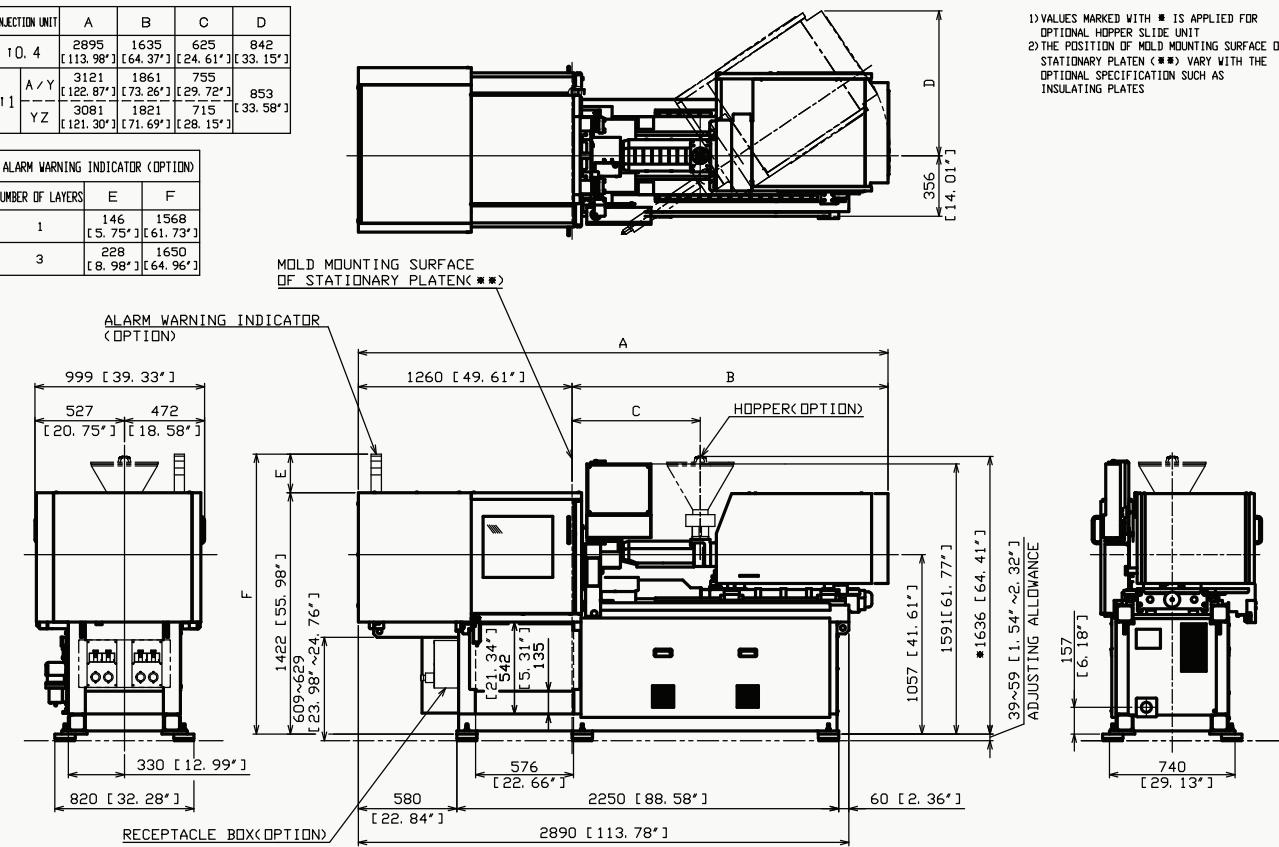
Quick change heating
disconnects

- ▶ Repeated ejection control
 - ▶ RA ejection control
 - ▶ Ejector retraction check circuit
 - ▶ Ejector plate, ejecting rod
 - ▶ Gate cut circuit
 - ▶ Ejection force digital setting
 - ▶ Ejection hold time setting
 - ▶ Ejection during mold opening
 - ▶ Ejection torque monitor
 - ▶ Mold open halt - Enables mold opening at an arbitrary position
 - ▶ Triple core pull interface – 2-hyd. core X 1-Pneumatic (Timer only)
 - ▶ Single valve gate
 - ▶ Double air blow

- ▶ High-Speed control cycle
 - ▶ List setting screen
 - ▶ Operation indicator
 - ▶ External output signal customize function
 - ▶ Password function

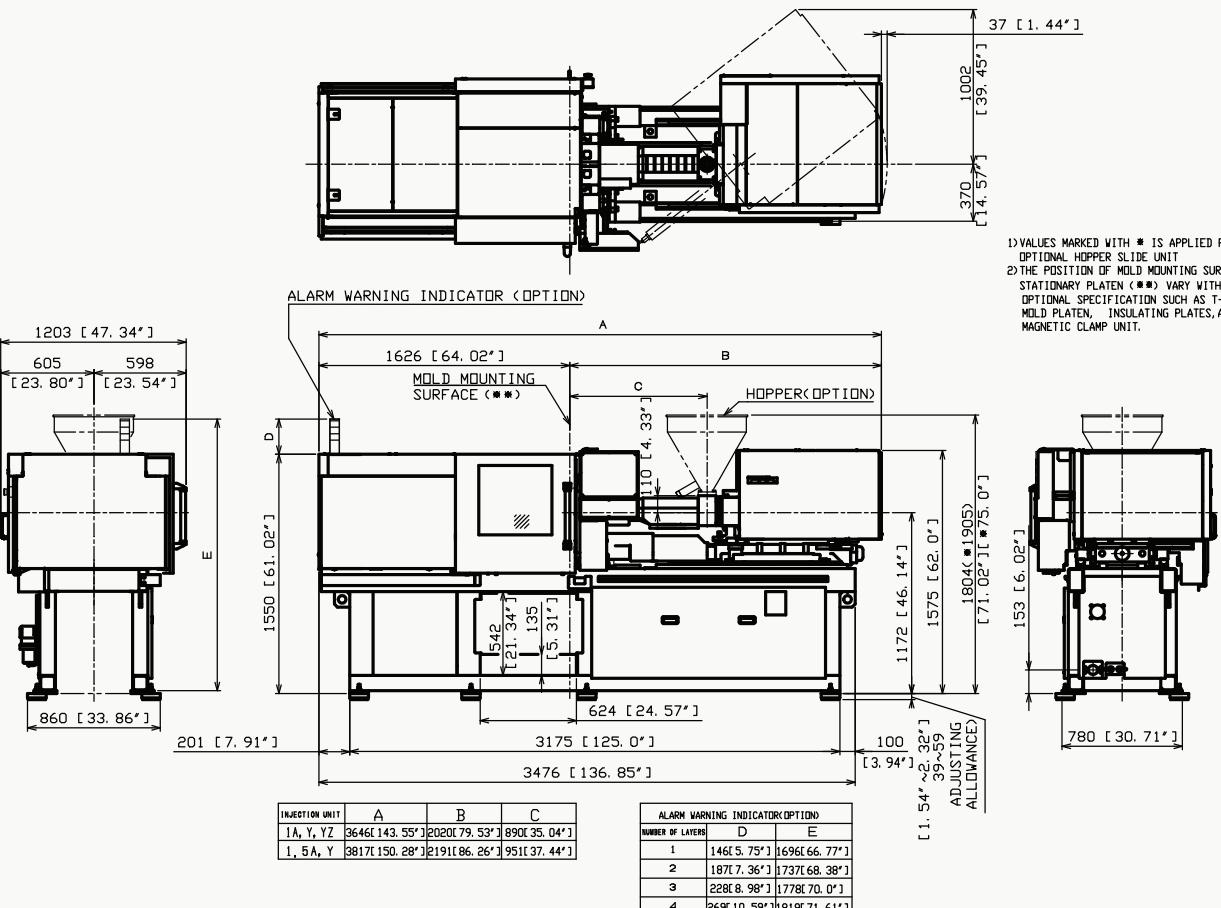
INJECTION UNIT		A	B	C	D
10. 4		2895 [11.98']	1635 [64.37']	625 [24.61']	84 [33.11']
11	A / Y	3121 [122.87']	1861 [73.26']	755 [29.72']	85 [33.11']
	YZ	3081 [121.30']	1821 [71.69']	715 [28.15']	

ALARM WARNING INDICATOR OPTION		
NUMBER OF LAYERS	E	F
1	146 [5.75"]	1568 [61.73"]
3	228 [8.98"]	1650 [64.96"]

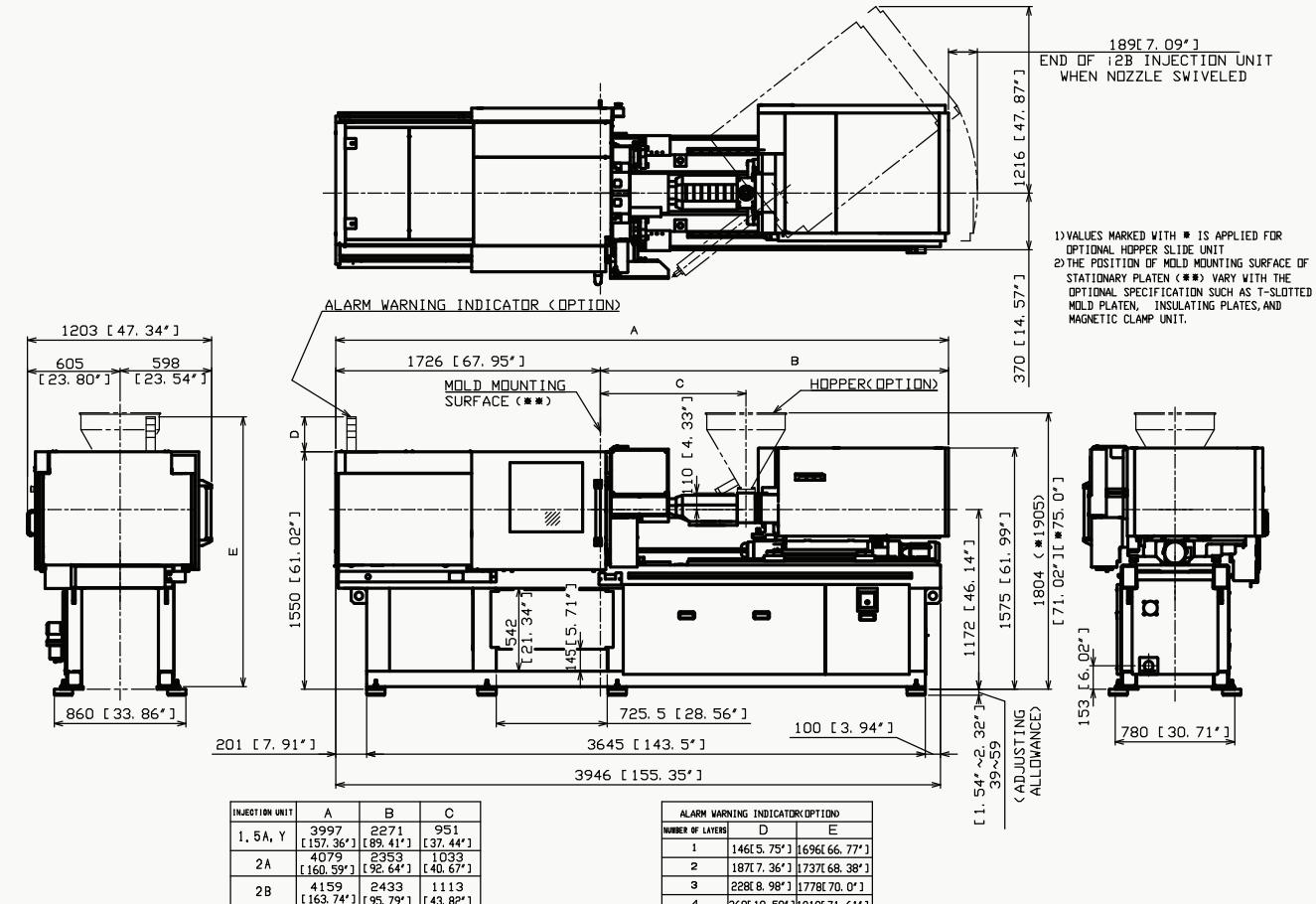


- 1) VALUES MARKED WITH * IS APPLIED FOR
OPTIONAL HOPPER SLIDE UNIT
- 2) THE POSITION OF MOLD MOUNTING SURFACE OF
STATIONARY PLATEN (***) VARY WITH THE
OPTIONAL SPECIFICATION SUCH AS
INSULATING PLATES

EC55SXII



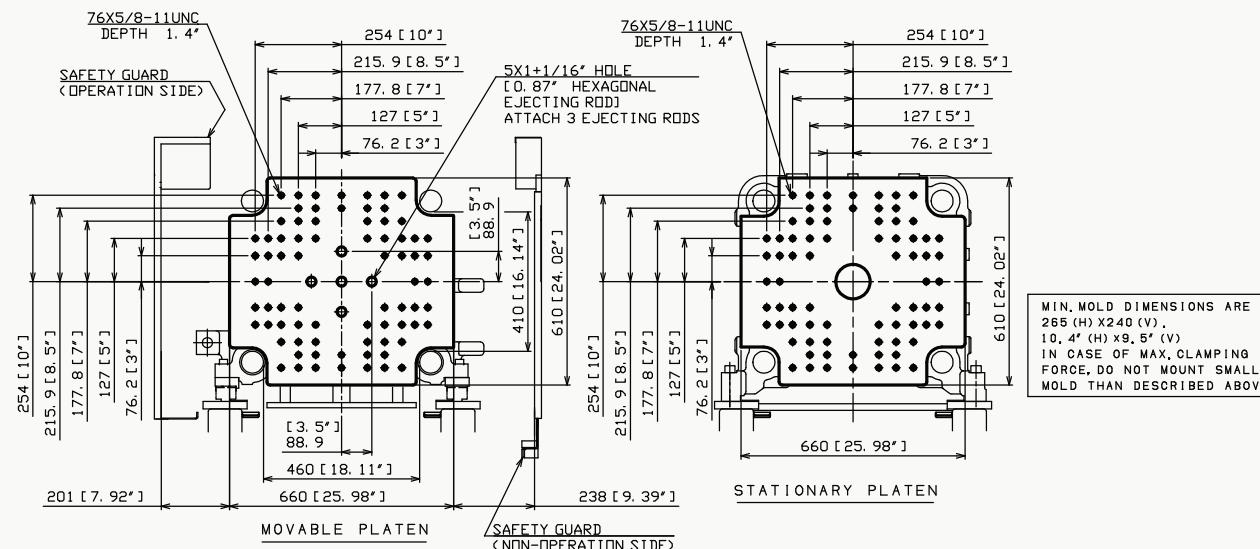
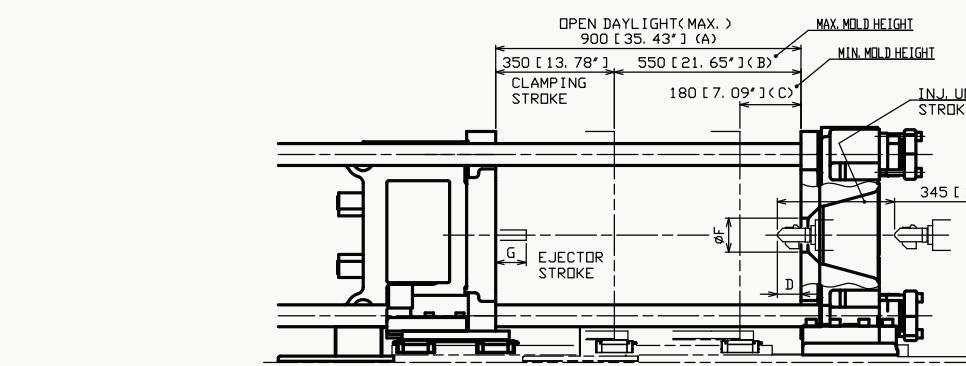
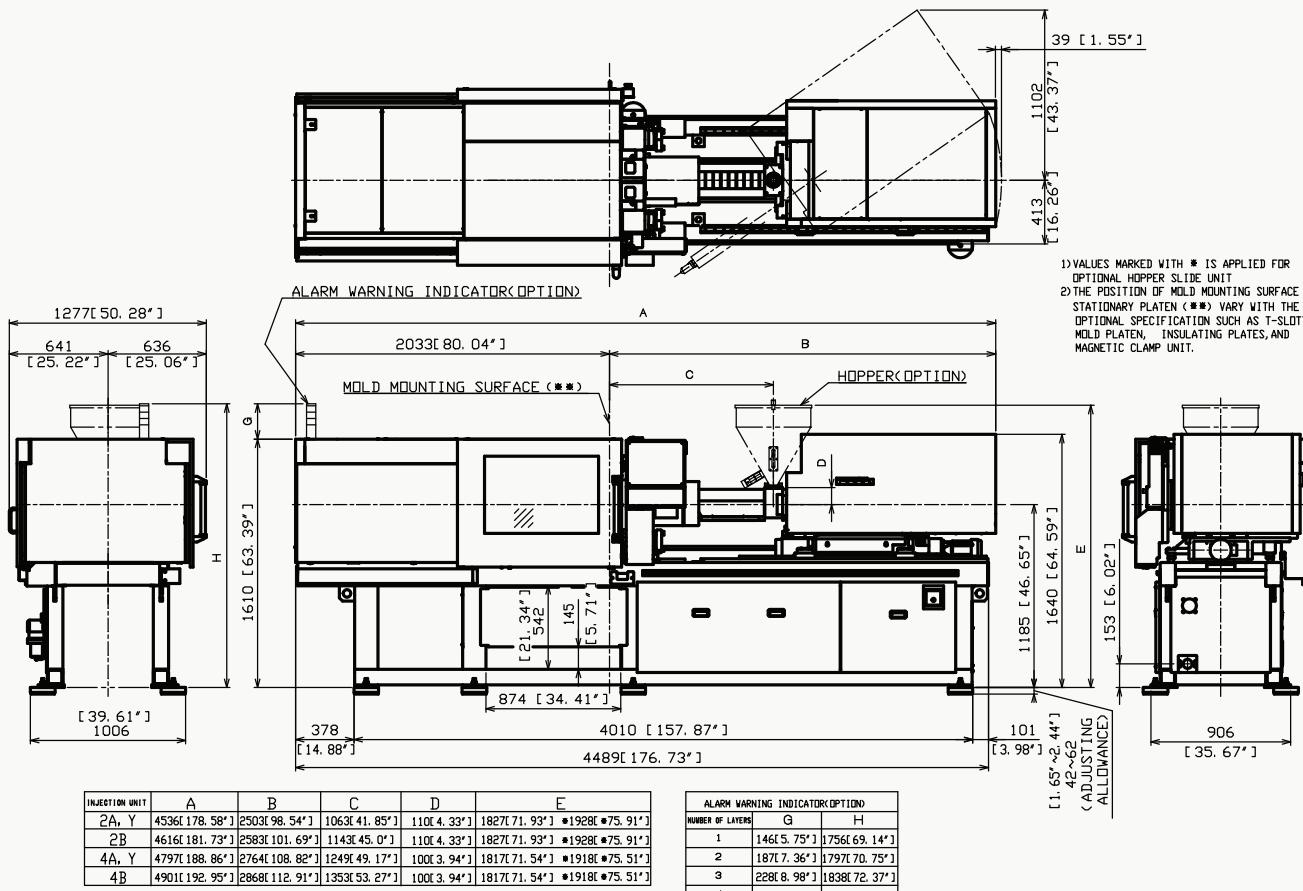
EC85SXII



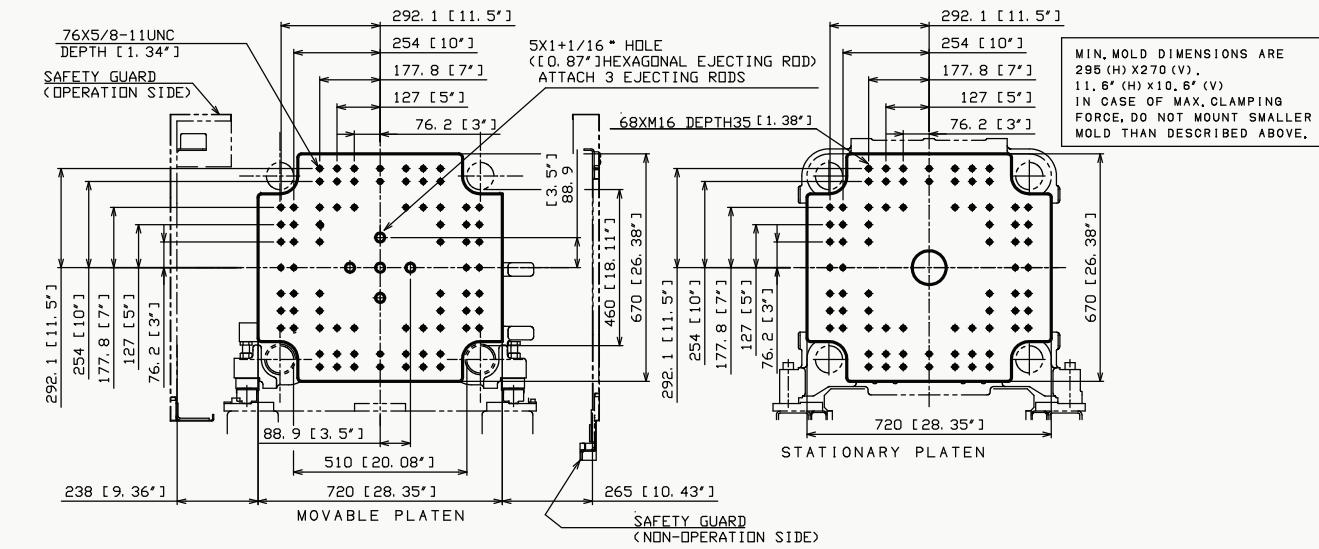
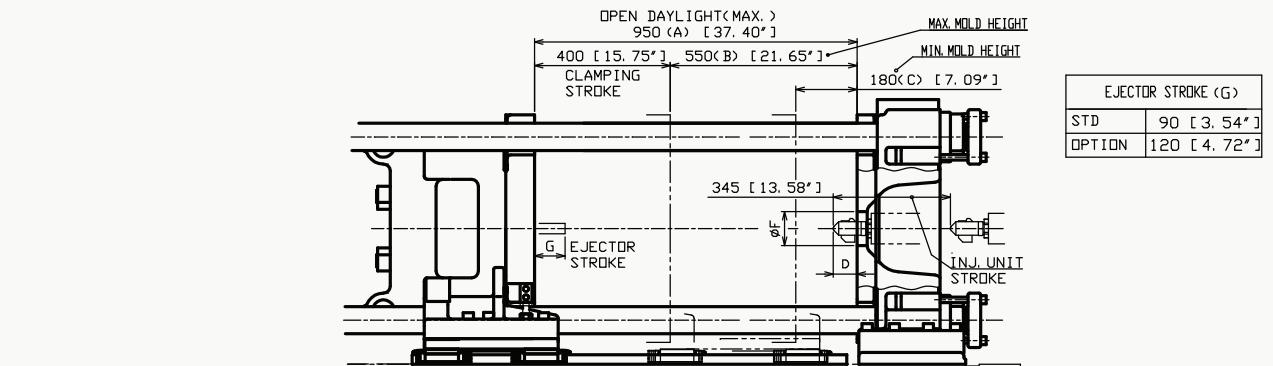
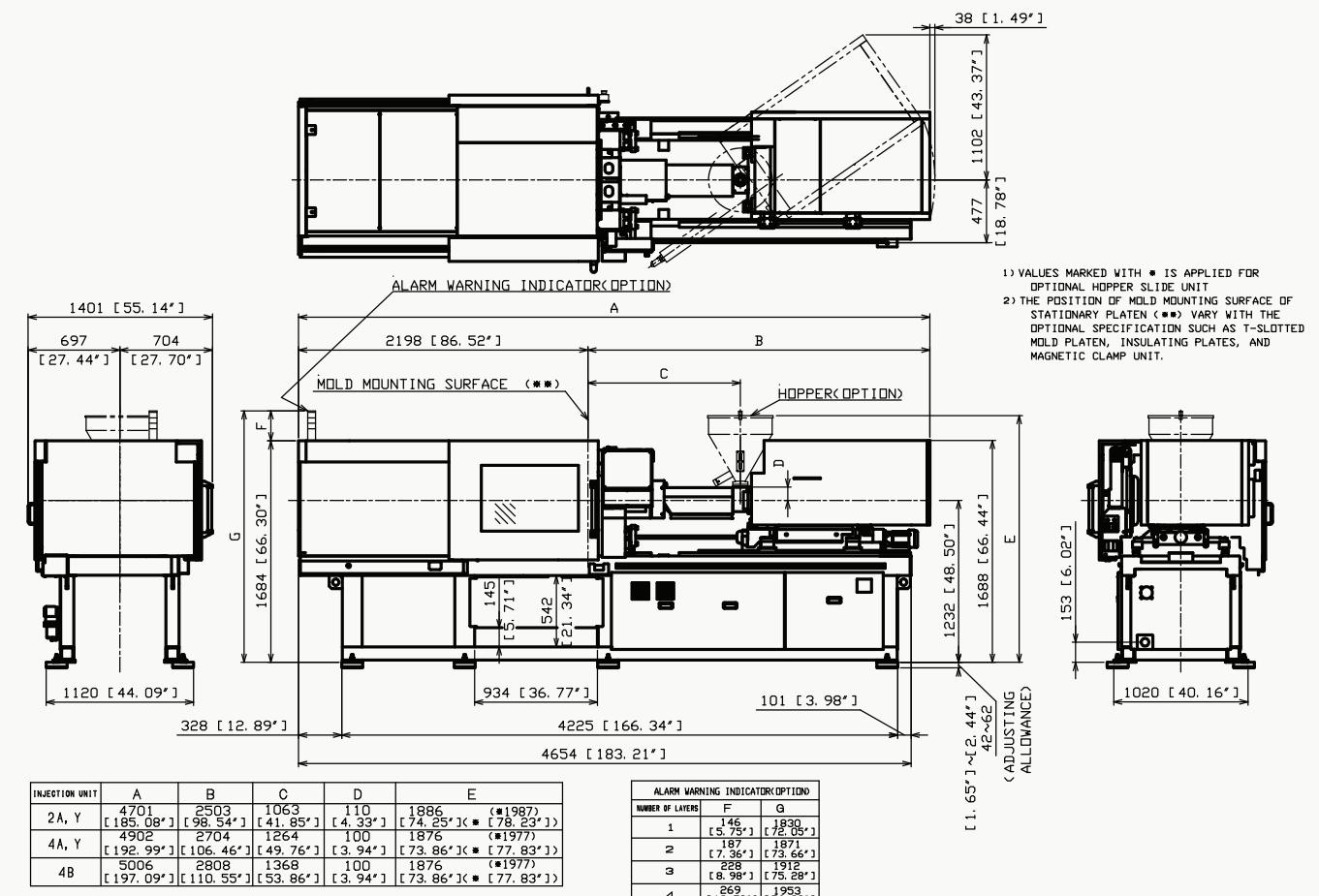
Note: Specifications can change without notice. Contact Shibaura Machine for most current specifications.

Note: Specifications can change without notice. Contact Shibaura Machine for most current specifications.

EC110SXII



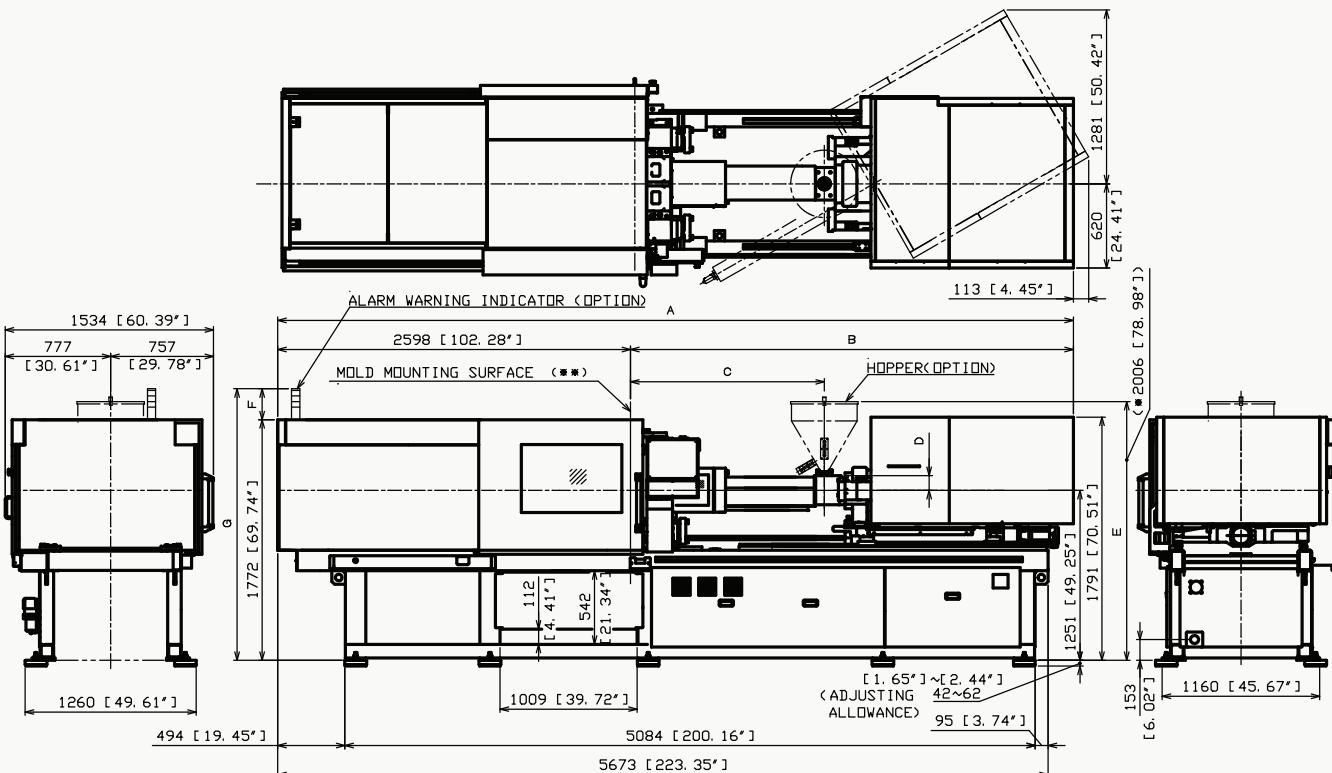
EC140SXII



Note: Specifications can change without notice. Contact Shibaura Machine for most current specifications.

Note: Specifications can change without notice. Contact Shibaura Machine for most current specifications.

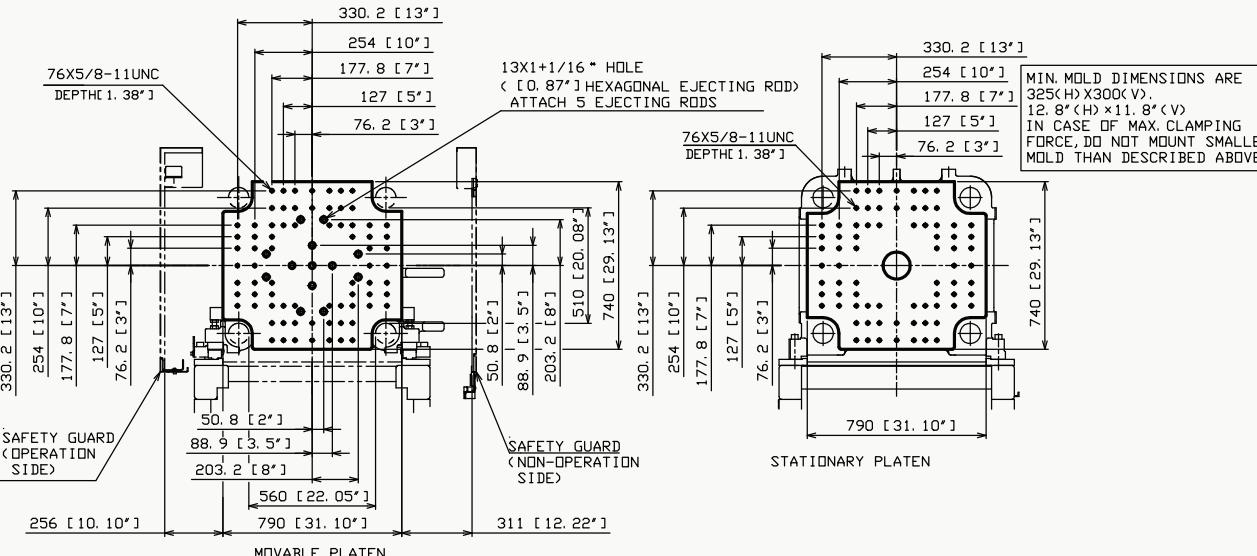
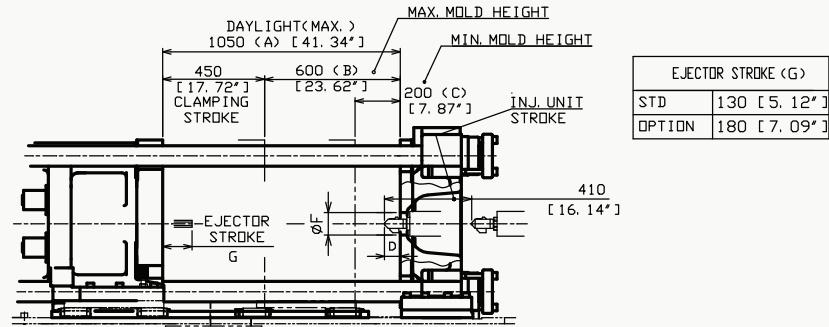
EC200SXII



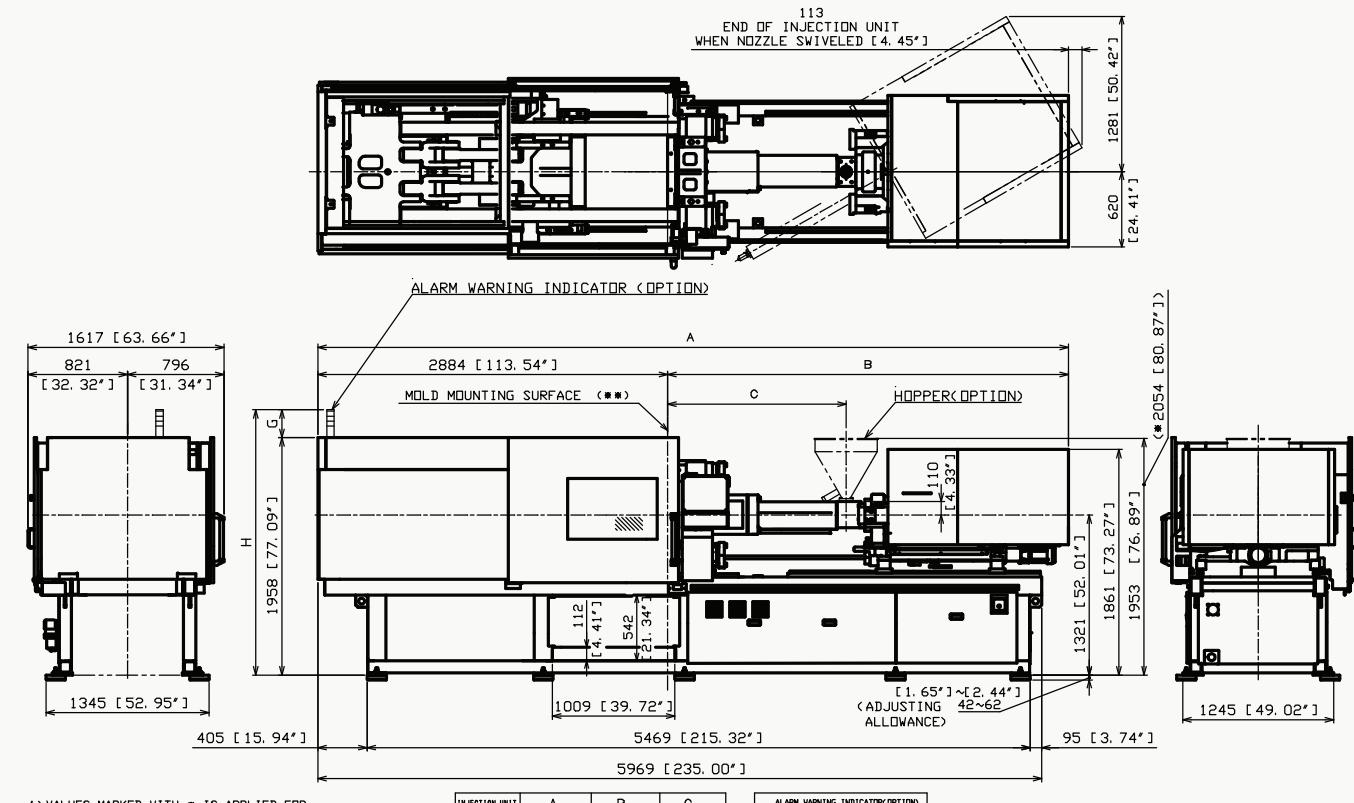
1) VALUES MARKED WITH * IS APPLIED FOR
OPTIONAL HOPPER SLIDE UNIT.
2) THE POSITION OF MOLD MOUNTING SURFACE (**) VARY WITH THE OPTIONAL SPECIFICATION SUCH AS T-SLOTTED MOLD PLATEN, INSULATING PLATES, AND MAGNETIC CLAMP UNIT.

INJECTION UNIT					A	B	C	D	E
ALARM WARNING INDICATOR(OPTION)					F	G			
4A, Y	5678 [223.31"]	3074 [121.02"]	1314 [51.32"]	100 [3.94"]	1895 [74.61"]				
4B	5776 [226.50"]	3178 [123.22"]	1418 [57.13"]	100 [3.94"]	1895 [74.61"]				
6A, Y	5059 [180.67"]	3265 [128.39"]	1429 [56.22"]	110 [4.33"]	1905 [75.00"]				
8A, Y	5958 [207.77"]	3360 [136.38"]	1527 [59.21"]	110 [4.33"]	1905 [75.00"]				
8B	6062 [208.66"]	3464 [136.38"]	1631 [64.21"]	110 [4.33"]	1905 [75.00"]				

INJECTION UNIT					A	B	C	D	E
ALARM WARNING INDICATOR(OPTION)					F	G			
1		146 [5.75"]	1918 [74.45"]						
2		187 [7.36"]	1959 [77.10"]						
3		228 [8.98"]	2000 [78.72"]						
4		269 [10.59"]	2041 [80.33"]						

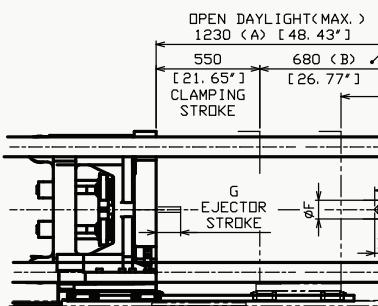


EC250SXII

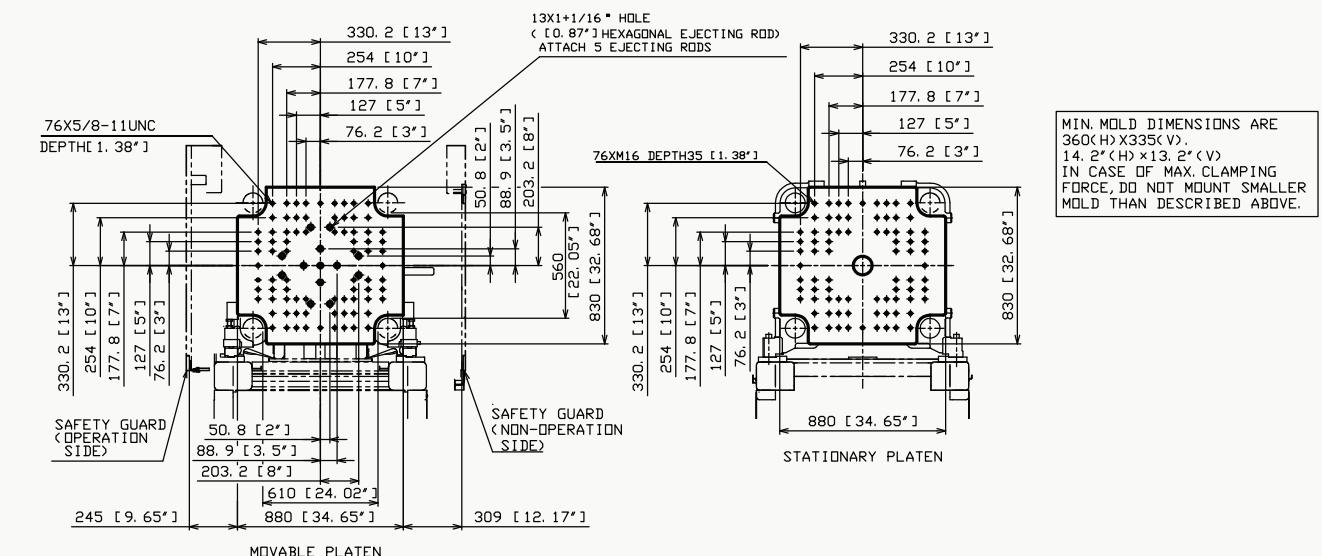


1) VALUES MARKED WITH * IS APPLIED FOR OPTIONAL HOPPER SLIDE UNIT.
2) THE POSITION OF MOLD MOUNTING SURFACE (**) VARY WITH THE OPTIONAL SPECIFICATION SUCH AS T-SLOTTED MOLD PLATEN, INSULATING PLATES, AND MAGNETIC CLAMP UNIT.

INJECTION UNIT					A	B	C	D	E
ALARM WARNING INDICATOR(OPTION)					F	G			
4Y	6003 [236.34"]	3119 [122.80"]	1359 [53.50"]						
6A, Y	6190 [243.70"]	3306 [130.16"]	1473 [57.99"]						
8A, Y	6247 [247.60"]	3140 [134.05"]	1576 [58.97"]						
8B	6393 [251.69"]	2509 [138.15"]	1676 [65.98"]						



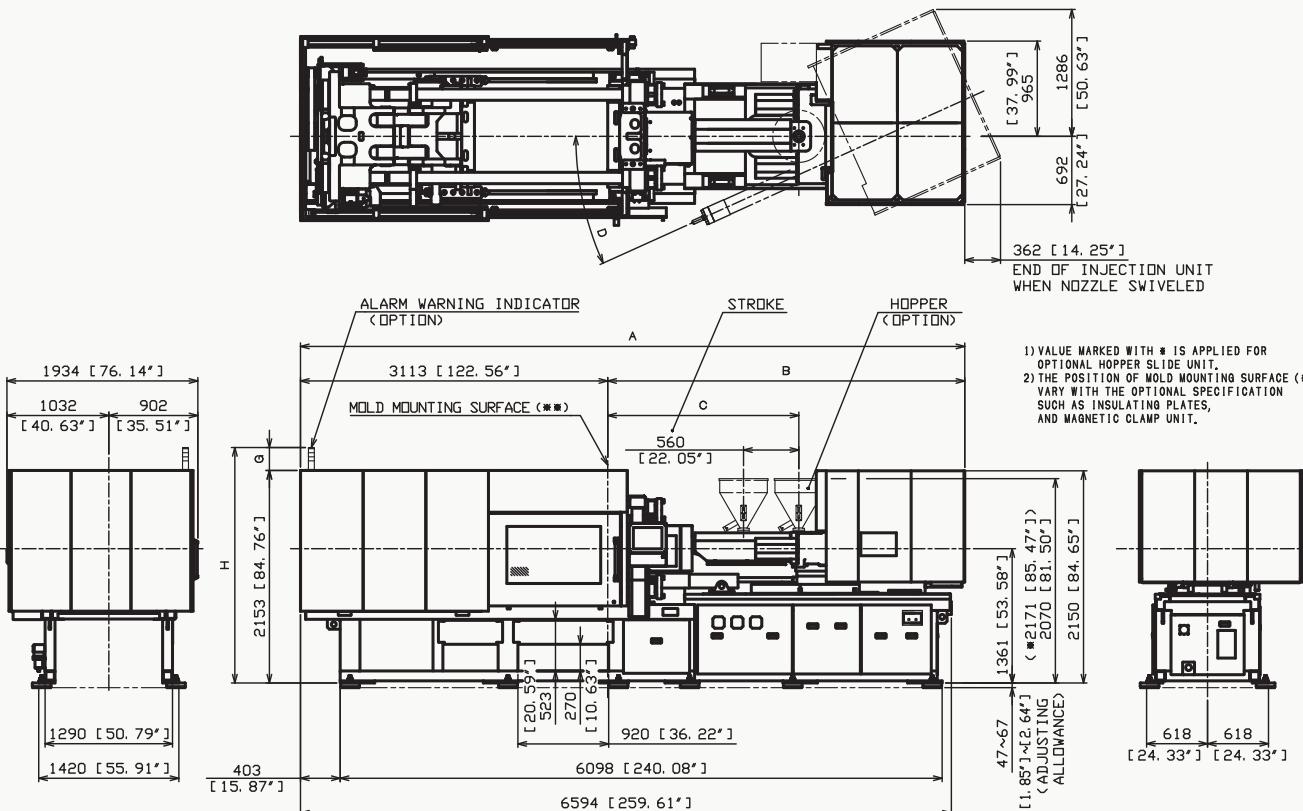
EJECTOR STROKE (G)				
STD 130 [5.12"]				
OPTION 180 [7.09"]				



Note: Specifications can change without notice. Contact Shibaura Machine for most current specifications.

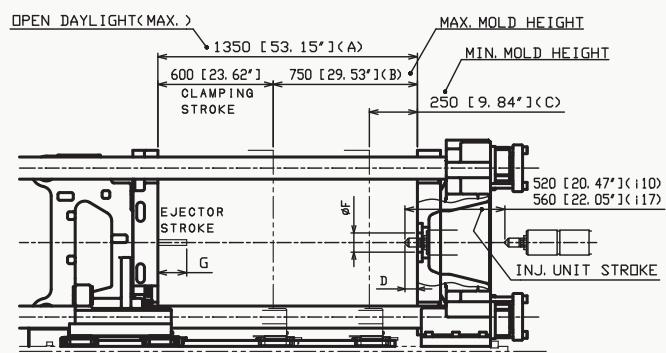
Note: Specifications can change without notice. Contact Shibaura Machine for most current specifications.

EC310SXII



INJECTION UNIT	A	B	C	D
17A, Y	6730 [264.96']	3617 [142.40']	1936 [76.22']	24. 3°
17B, BH	6930 [272.83']	3817 [150.27']	2136 [84.09']	24. 5°

ALARM WARNING INDICATOR (OPTION)	D	E
1	151 [5.95']	2304 [90.71']
3	233 [9.17']	2386 [93.93']



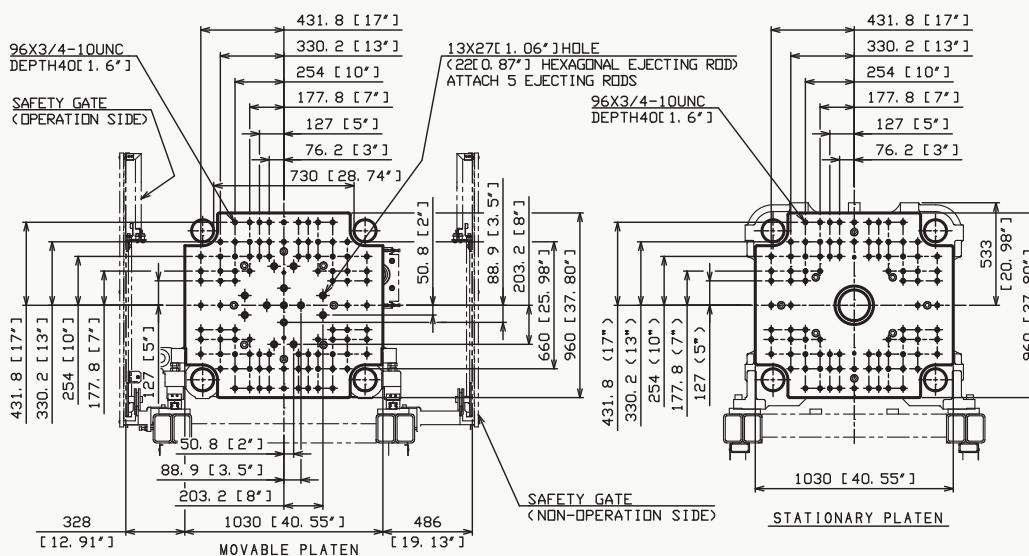
LOCATING RING HOLE DIAMETER (F)	NOZZLE PROJECTION (D)
STD $\#101.6^{+0.035}_{-0.04}$ [Ø4']	i10 STD (6° BODY) 86 [3.39'] i17 STD (6° BODY) 48 [1.89']
STD $\#101.6^{+0.035}_{-0.04}$ [Ø4']	i10 STD (6° BODY) 81 [3.19'] i17 STD (6° BODY) 43 [1.69']

IN CASE OF OPTIONAL INSULATING PLATES:

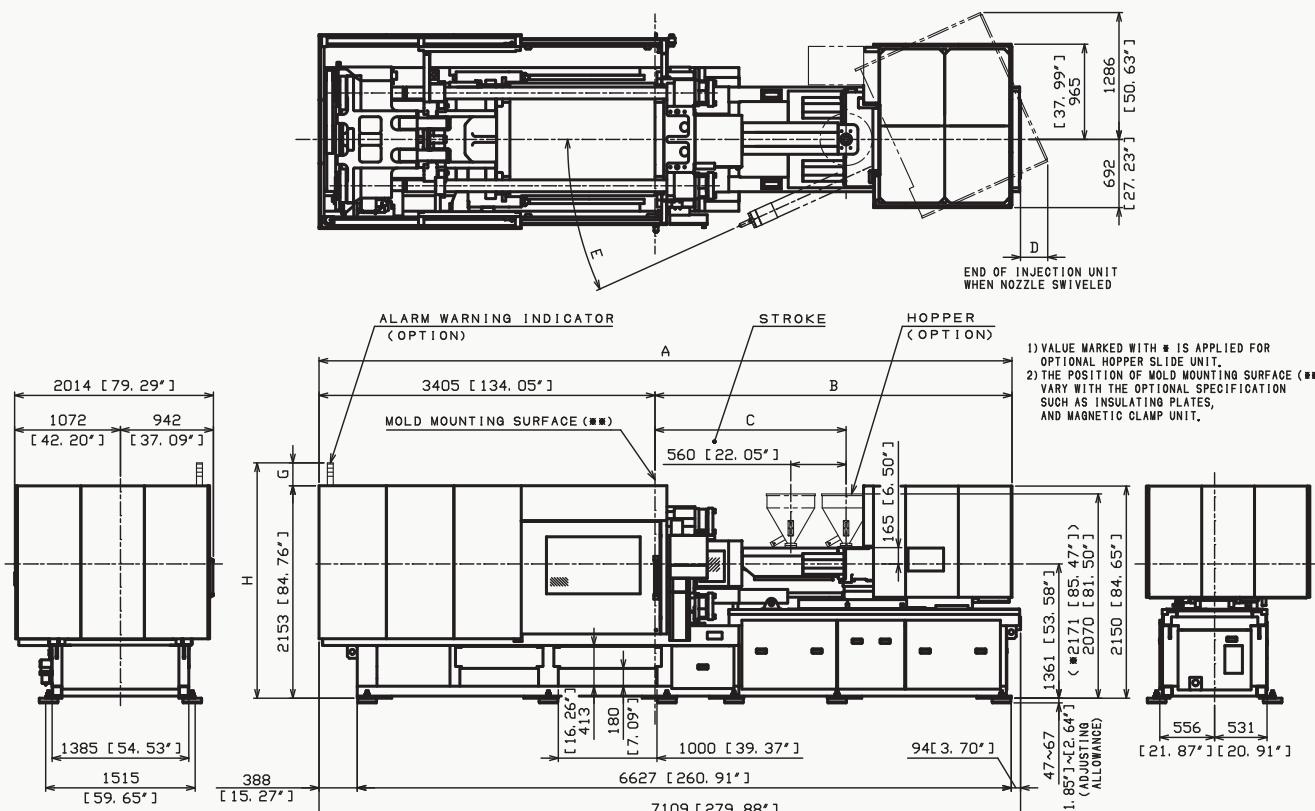
5mm [0.20']	10mm [0.39']
-------------	--------------

Dimensions:

- OPEN DAYLIGHT (MAX.) A: 1340 [52.76']
- MAX. MOLD HEIGHT B: 740 [29.13']
- MIN. MOLD HEIGHT C: 240 [9.45']
- NOZZLE PROJECTION D: i10 STD (6° BODY) 81 [3.19']
i17 STD (6° BODY) 43 [1.69']

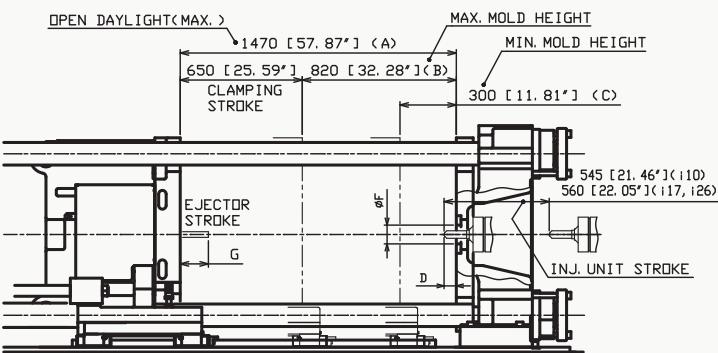


EC390SXII



INJECTION UNIT	A	B	C	D	E
117A, Y	7022 [276.45']	3617 [142.40']	1936 [76.22']	276 [10.87']	24. 3°
117B, BH	7227 [284.52']	3822 [150.47']	2141 [84.29']	483 [19.02']	24. 5°

ALARM WARNING INDICATOR (OPTION)	G	H
1	150 [5.91']	2303 [90.67']
3	232 [9.13']	2385 [93.89']



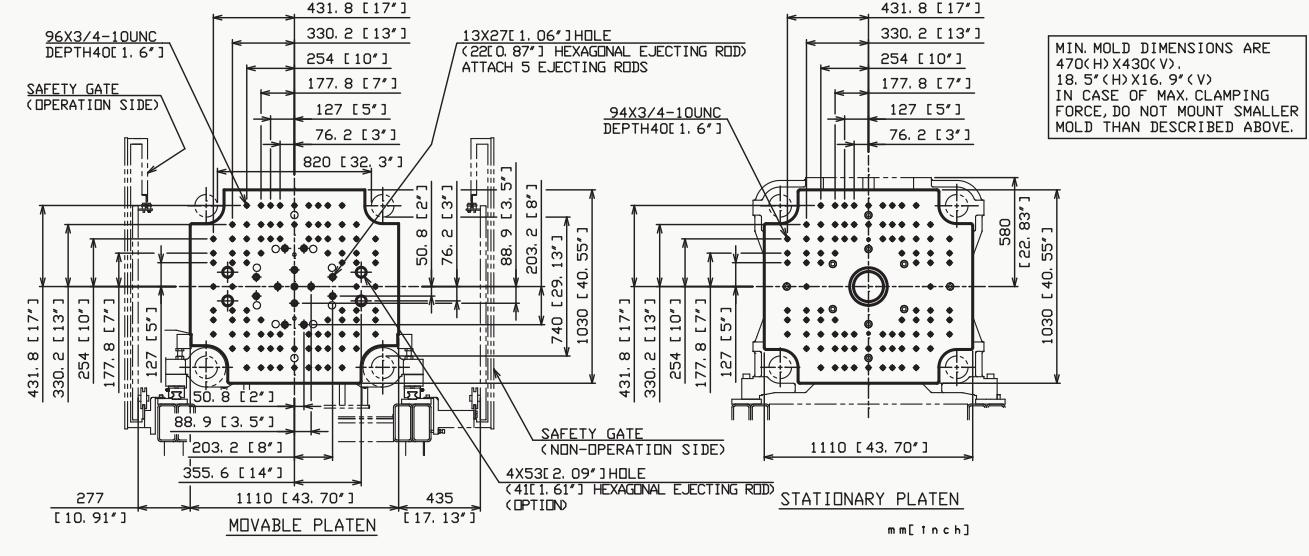
LOCATING RING HOLE DIAMETER (F)	NOZZLE PROJECTION (D)
STD $\#101.6^{+0.035}_{-0.04}$ [Ø4']	i10 STD (6° BODY) 86 [3.39'] i17 STD (6° BODY) 48 [1.89'] i26 STD (6° BODY) 55 [2.17']
STD $\#101.6^{+0.035}_{-0.04}$ [Ø4']	i10 STD (6° BODY) 81 [3.19'] i17 STD (6° BODY) 43 [1.69'] i26 STD (6° BODY) 50 [1.97']

IN CASE OF OPTIONAL INSULATING PLATES:

5mm [0.20']	10mm [0.39']
-------------	--------------

Dimensions:

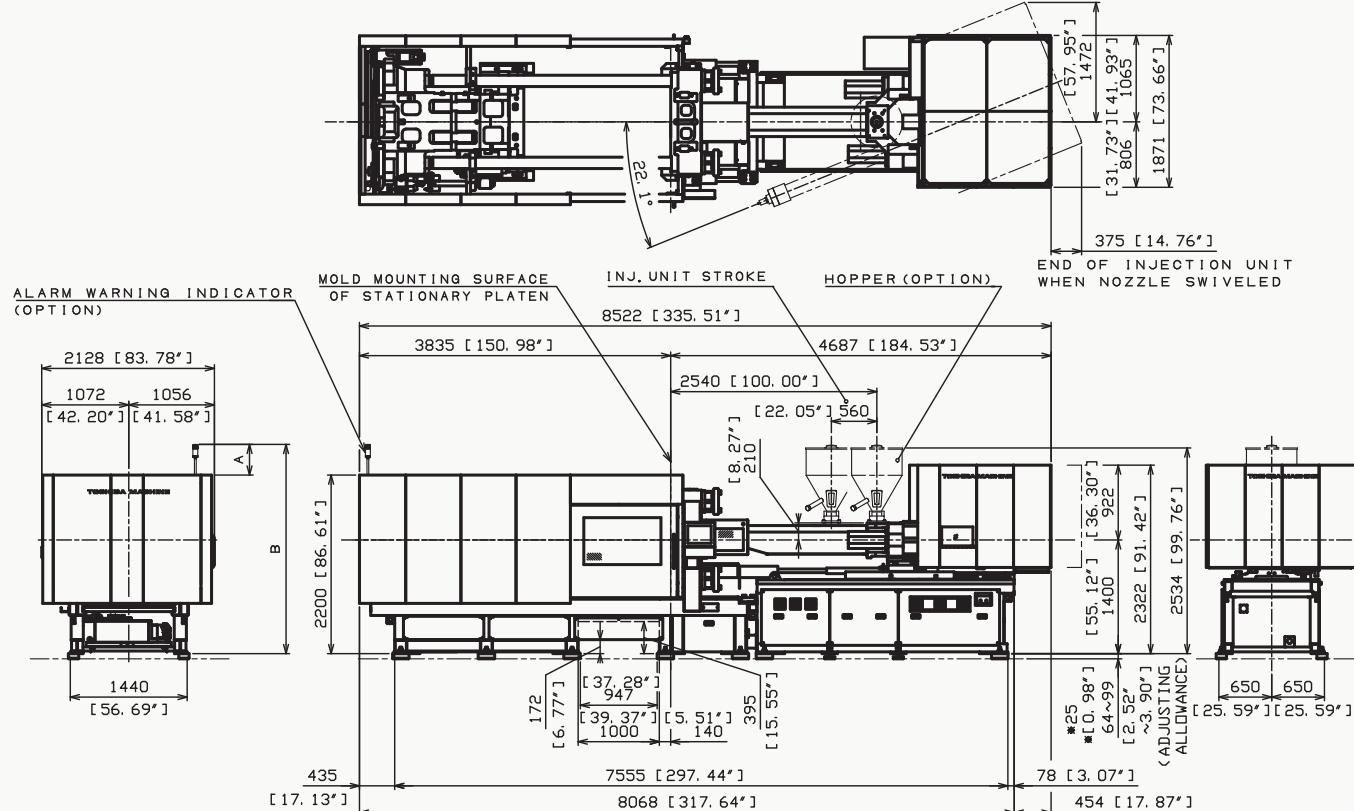
- OPEN DAYLIGHT (MAX.) A: 1460 [57.48']
- MAX. MOLD HEIGHT B: 810 [31.89']
- MIN. MOLD HEIGHT C: 290 [11.42']
- NOZZLE PROJECTION D: i10 STD (6° BODY) 81 [3.19']
i17 STD (6° BODY) 43 [1.69']
i26 STD (6° BODY) 50 [1.97']



Note: Specifications can change without notice. Contact Shibaura Machine for most current specifications.

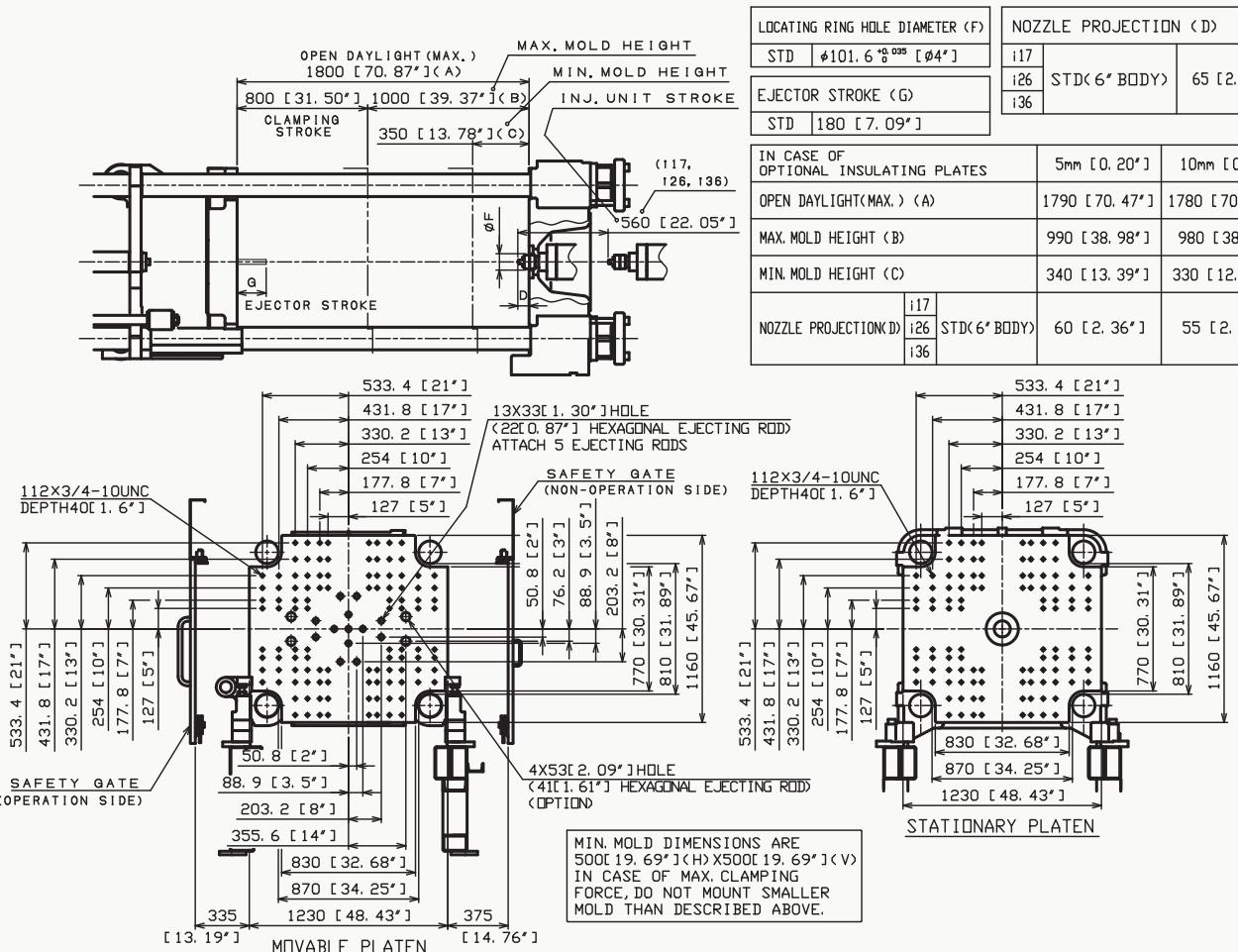
Note: Specifications can change without notice. Contact Shibaura Machine for most current specifications.

EC500SXI

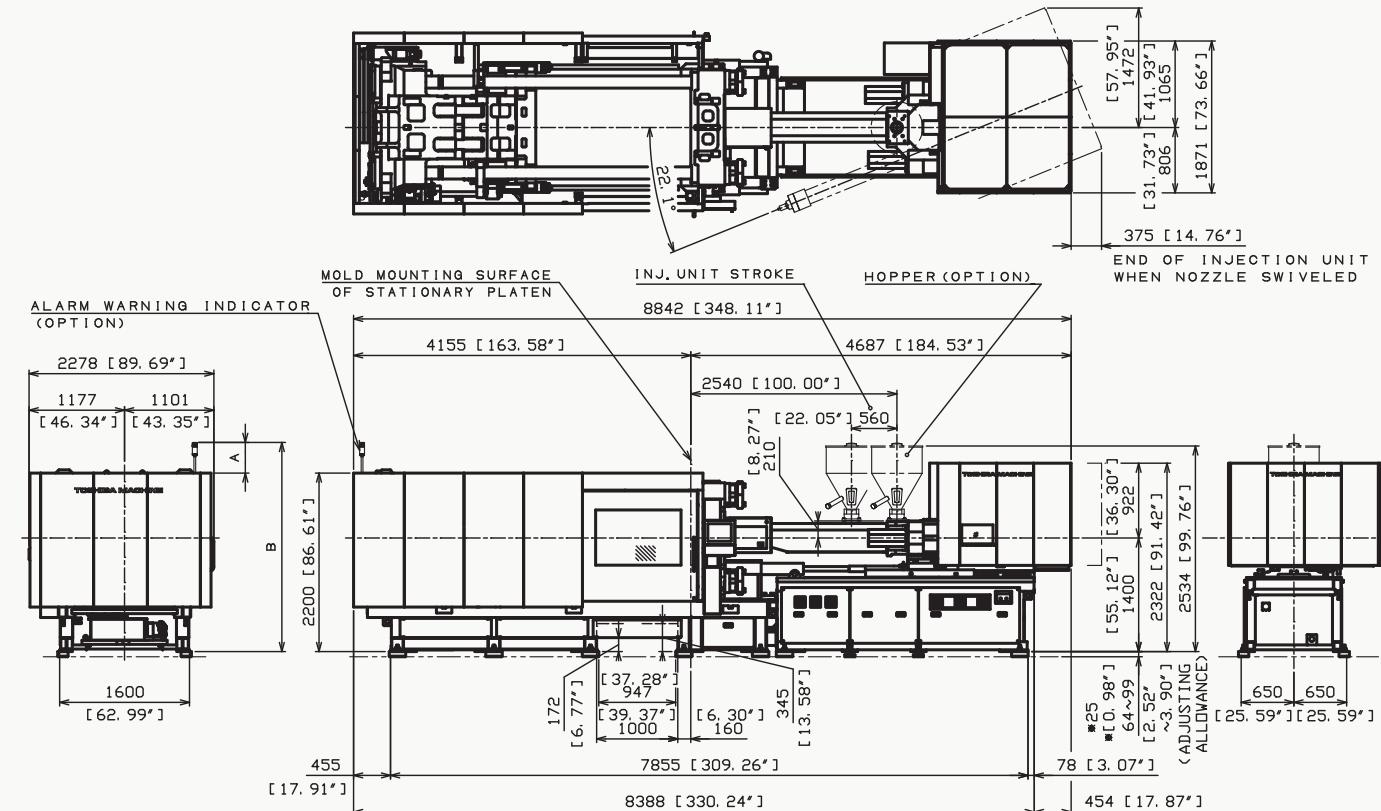


ALARM WARNING INDICATOR (OPTION)		
NUMBER OF LAYERS	A	B
1	378[14.88"]	2578[101.49"]
2	419[16.50"]	2619[103.11"]
3	460[18.11"]	2660[104.72"]

1) DIMENSION *MARK IS THE SPECIFICATION OF ANCHOR LOCKING FOUNDATION.

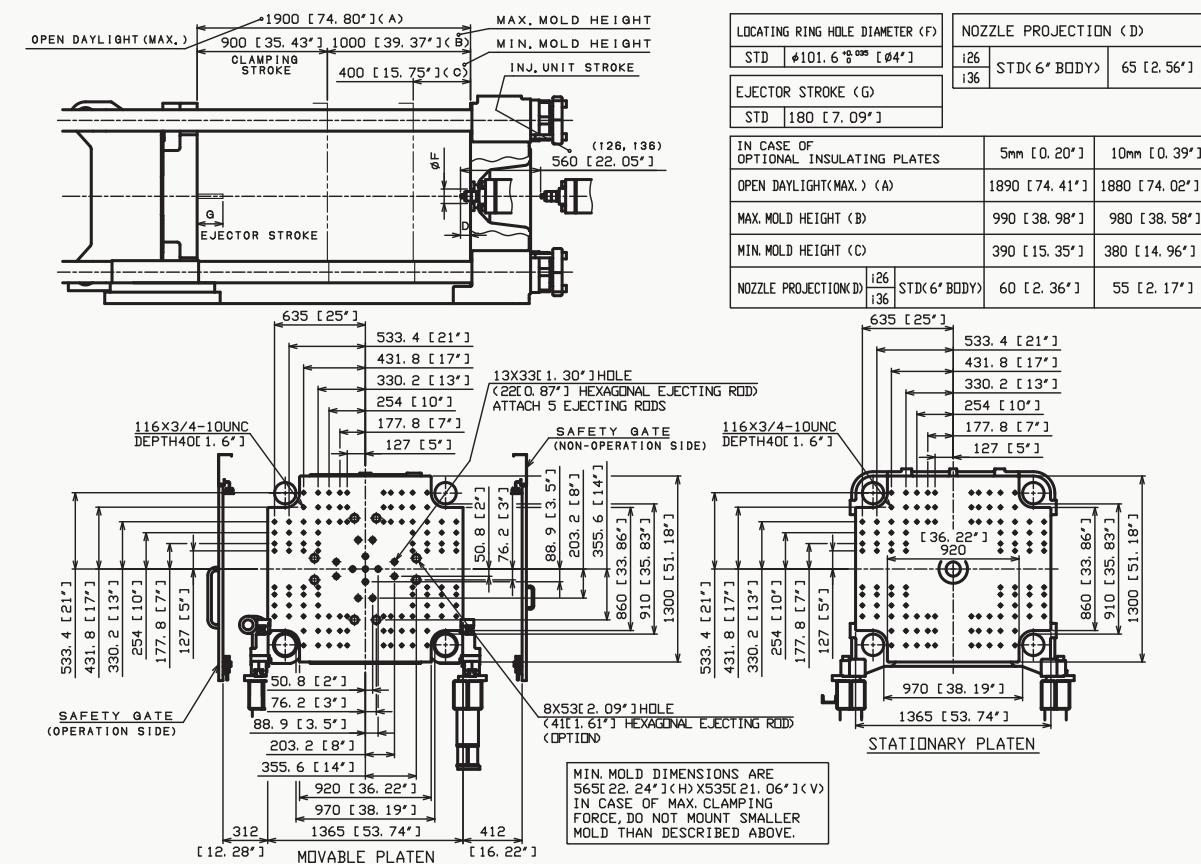


EC610SXII



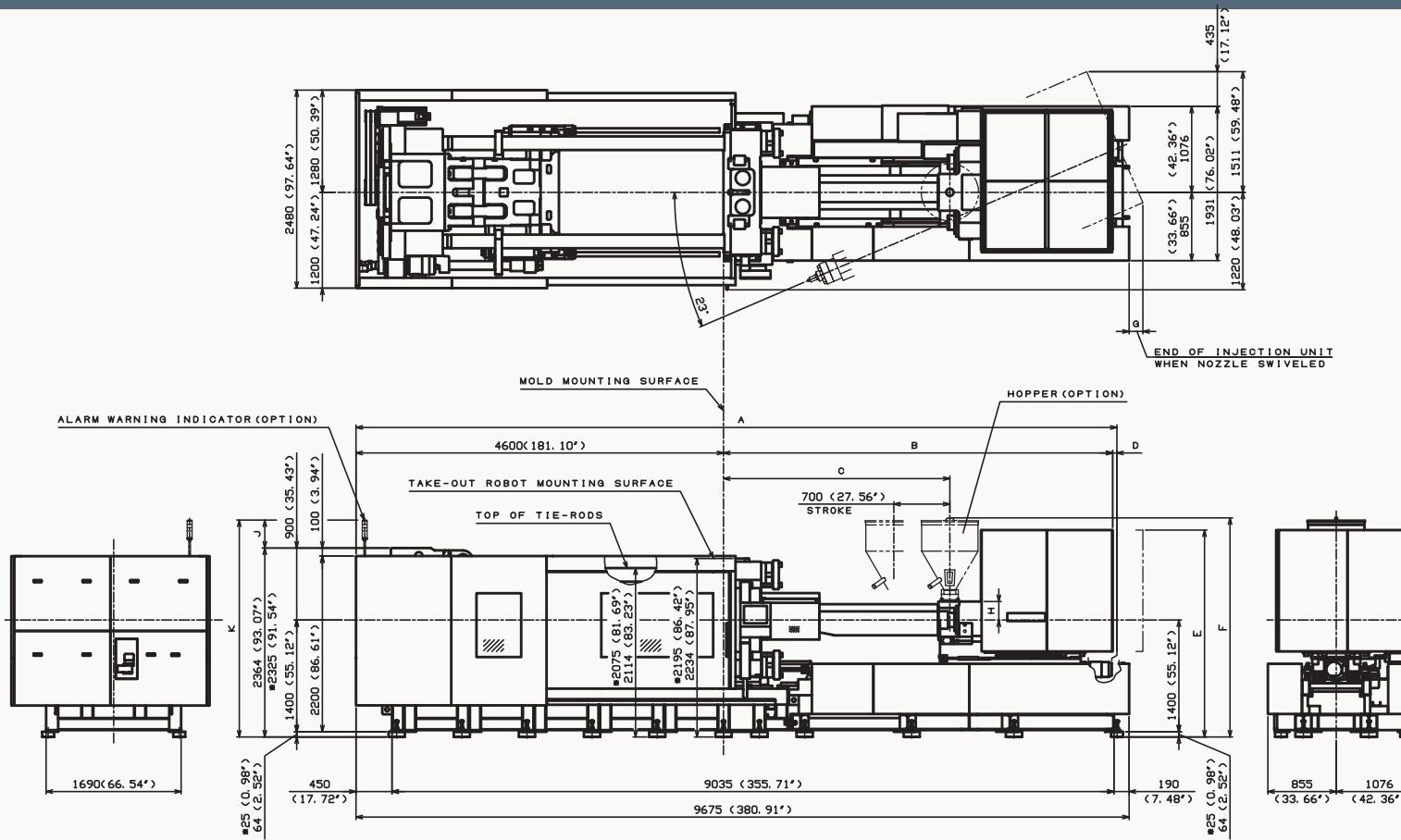
ALARM WARNING INDICATOR (OPTION)		
NUMBER OF LAYERS	A	B
1	378[14.88"]	2578[101.50"]
2	419[16.50"]	2619[103.11"]
3	460[18.11"]	2660[104.72"]

1) DIMENSION *MARK IS THE SPECIFICATION OF
ANCHOR LOCKING FOUNDATION.

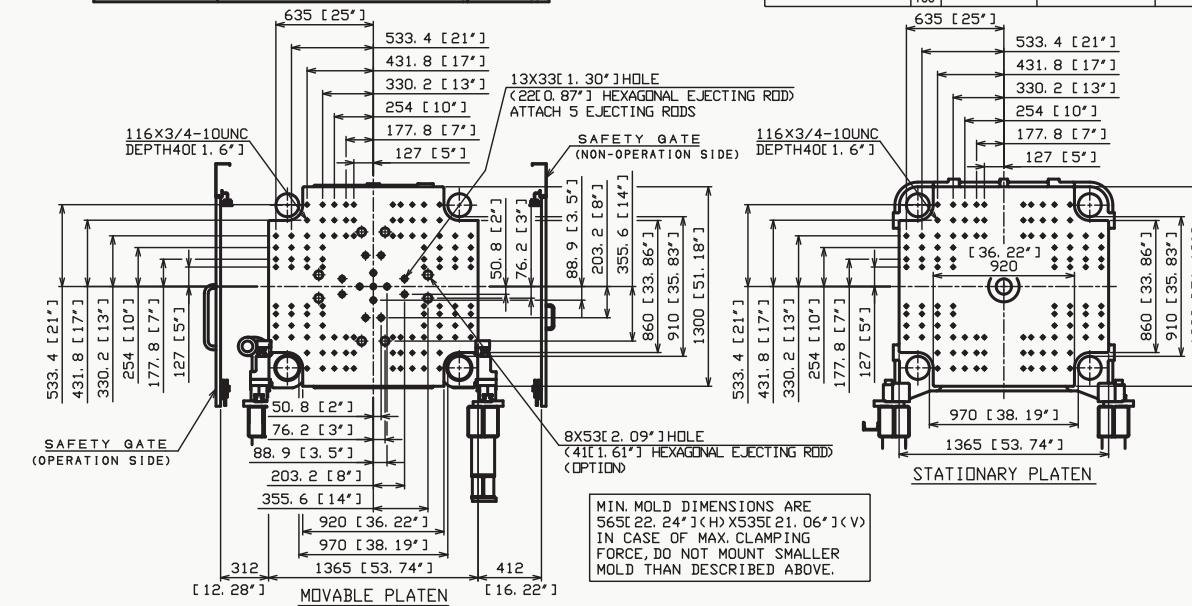
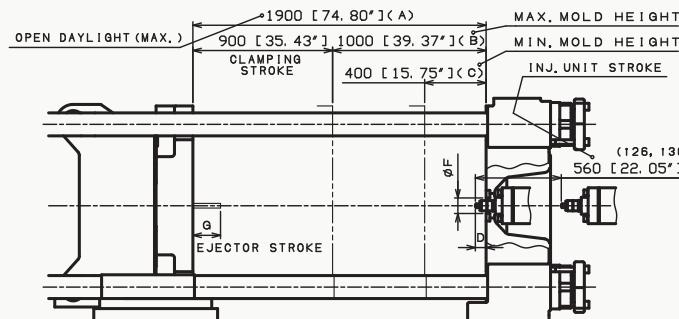


Note: Specifications can change without notice. Contact Shibaura Machine for most current specifications.

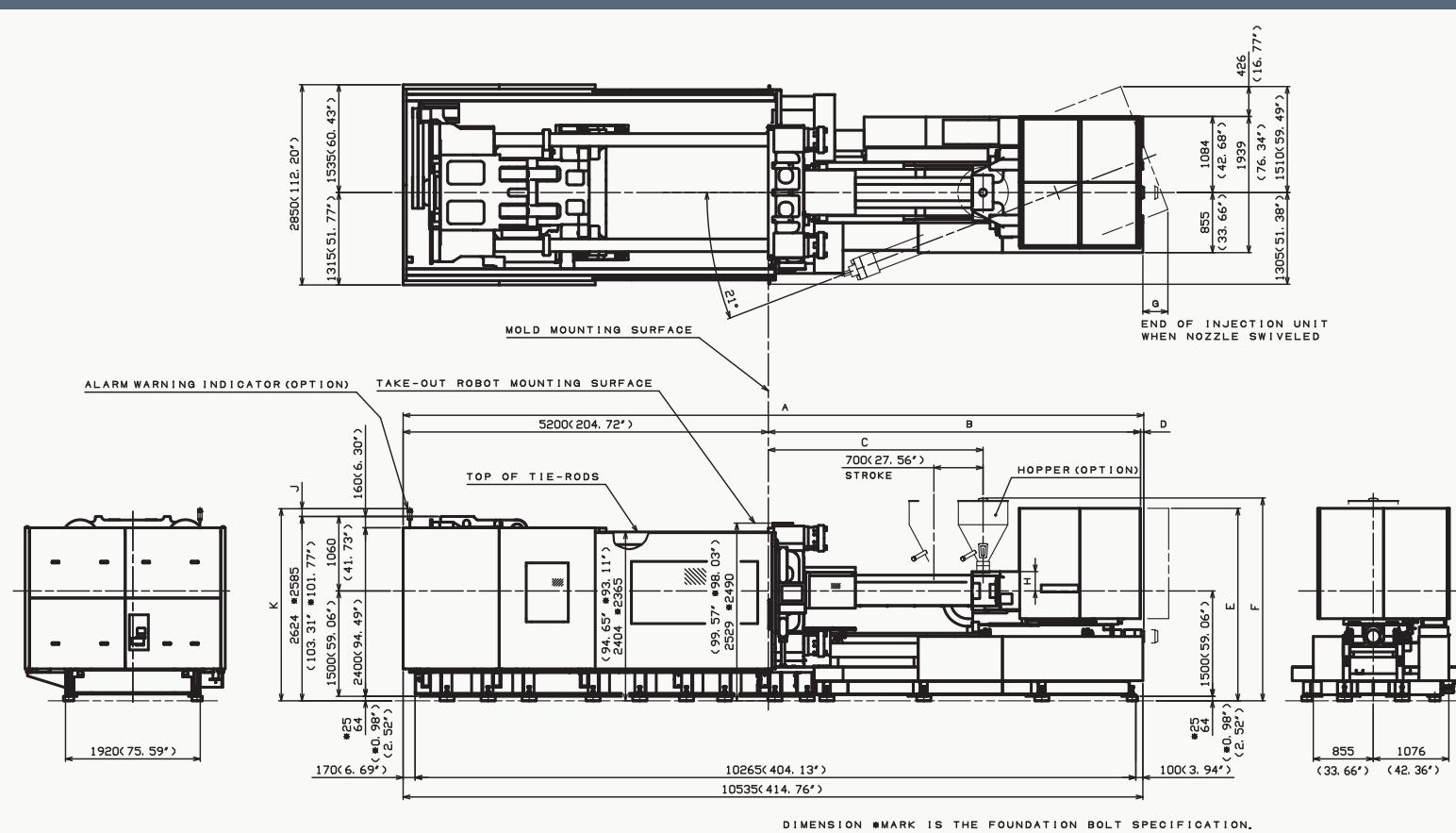
EC720SX



INJECTION UNIT		A	B	C	D	E	F	G	H
61A	9470(372.83")	4970(191.73")	2820(111.59")	-1K(-0.43")	2500(101.97")	#2501(100.49")	(2742 (107.95")	167.6(5.37")	230(9.06")
61AT, B	9670(380.71")	5070(199.61")	3032(118.61")	-1K(-0.43")	2500(101.97")	#2501(100.49")	(2742 (107.95")	367(14.45")	230(9.06")
78A	9948(391.65")	5081(206.74")	3059(120.43")	461(1.81")	2640(103.94")	#2601(102.40")	(2787 (109.72")	(2748 (108.19")	500(22.83") 275(10.89")
78AT, B	10248(403.46")	5602(220.55")	3359(123.24")	461(1.81")	2640(103.94")	#2601(102.40")	(2787 (109.72")	(2748 (108.19")	880(34.65") 275(10.89")

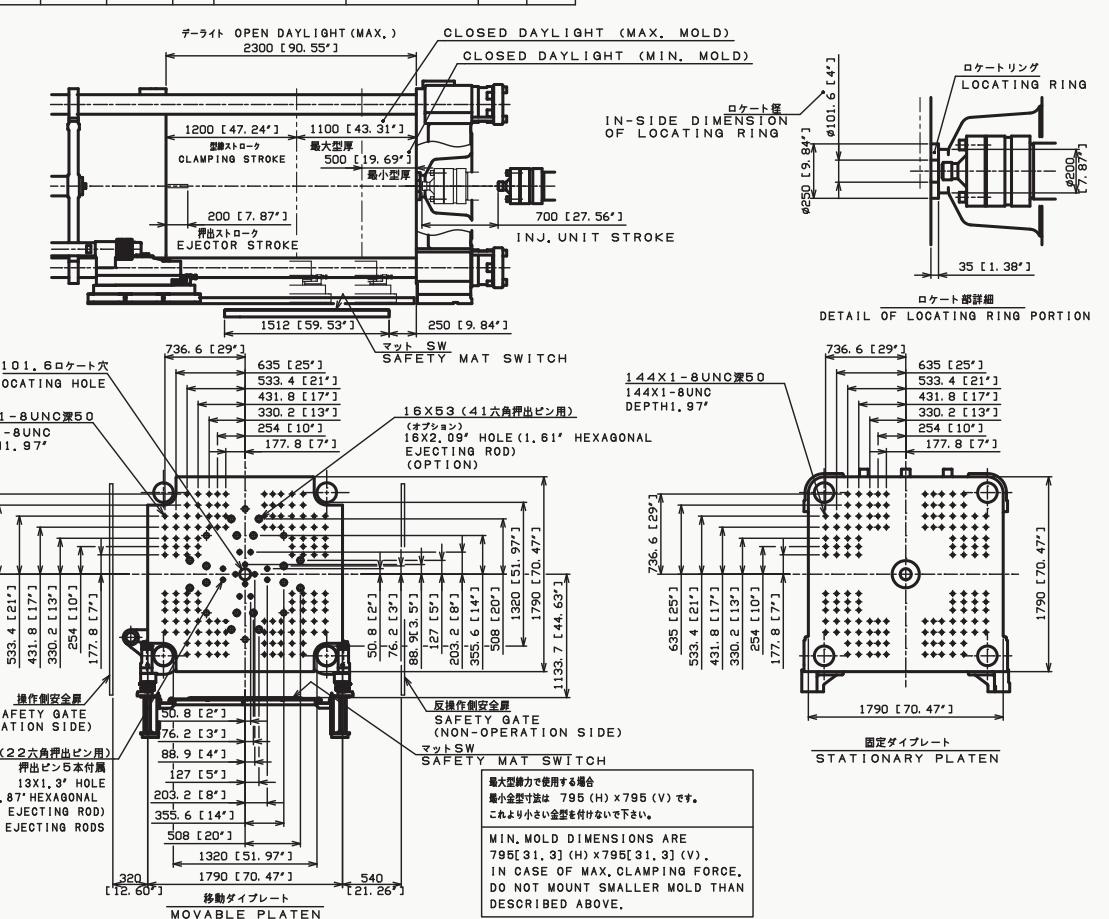


EC950SX

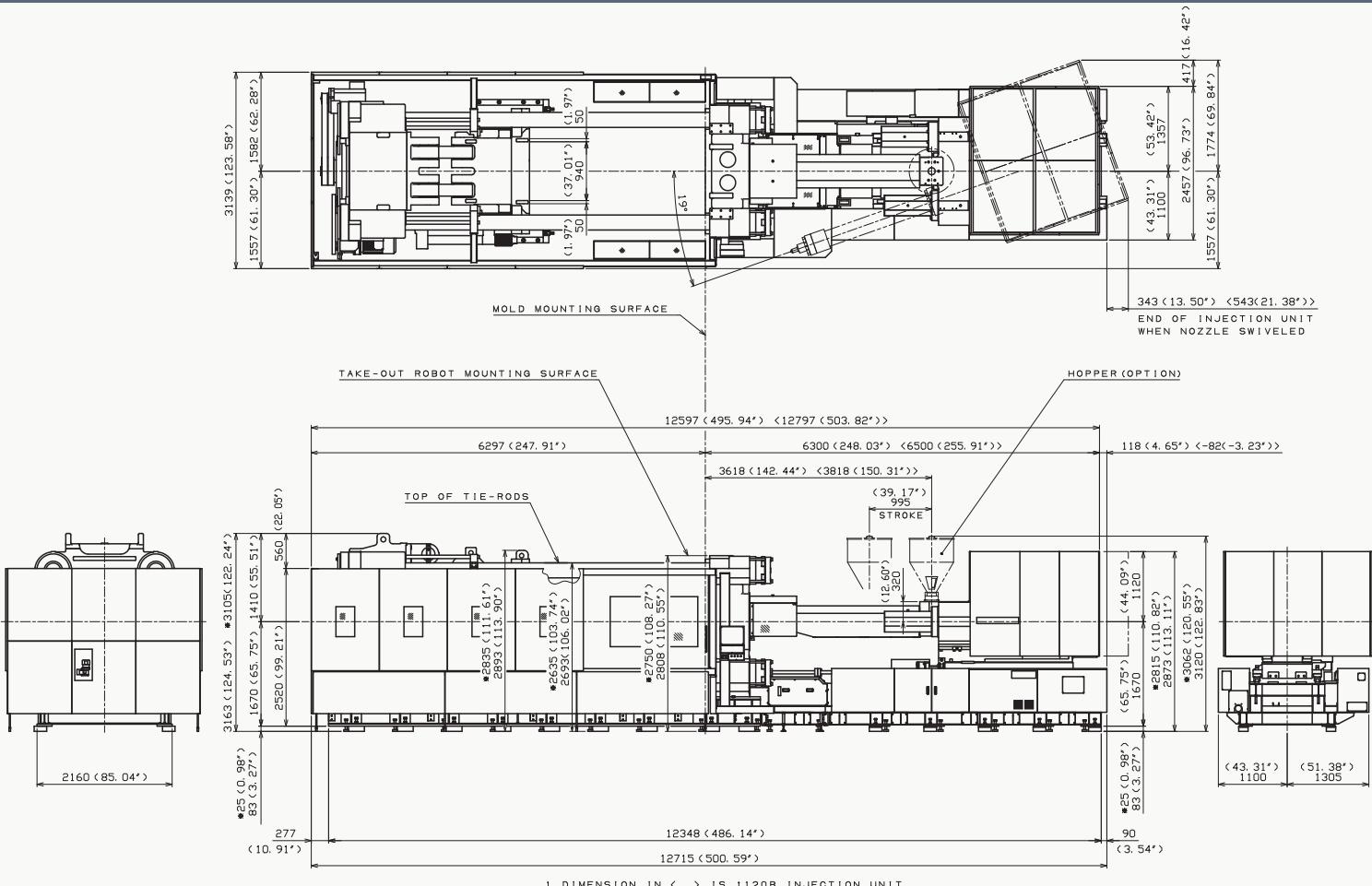


INJECTION UNIT	A	B	C	D	E	F	G	H
61A	10070 (396.46")	4970 (191.73")	2822 (111.59")	-11	2690 (105.91")	#2651 (104.37")	(2842) (111.89")	(2803) (110.35") (-3.66")
61B, AT	10270 (404.33")	5070 (199.61")	3032 (119.37")	-11	2690 (105.91")	#2651 (104.37")	(2842) (111.89")	(2803) (110.35") (4.21") (9.06")
78A	10548 (415.28")	5302 (202.74")	3059 (120.43")	46	2740 (107.87")	#2701 (106.34")	(2887) (113.66")	(2848) (112.13") (12.60") (10.83")
78B, AT	10848 (427.09")	5602 (220.55")	3359 (132.24")	46	2740 (107.87")	#2701 (106.34")	(2887) (113.66")	(2848) (112.13") (24.41") (27.5) (10.83")

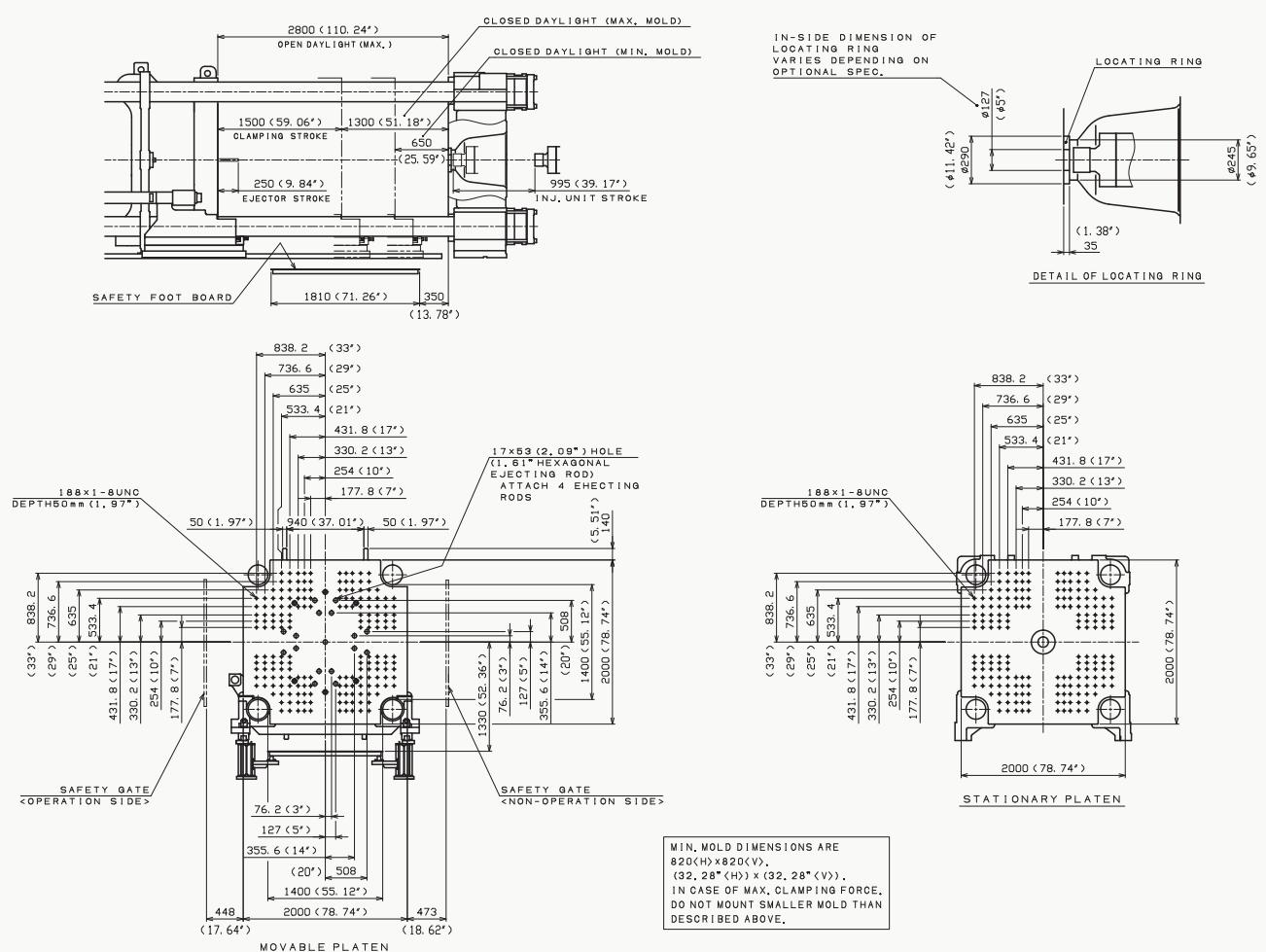
ALARM WARNING INDICATOR (OPTION)	J	K
NUMBER OF LAYERS	111 (4.37")	2735 (107.68") (#105.14")
1	152 (5.98")	2776 (109.29") (#107.76")
2	193 (7.60")	2817 (110.91") (#109.37")



EC1450SX

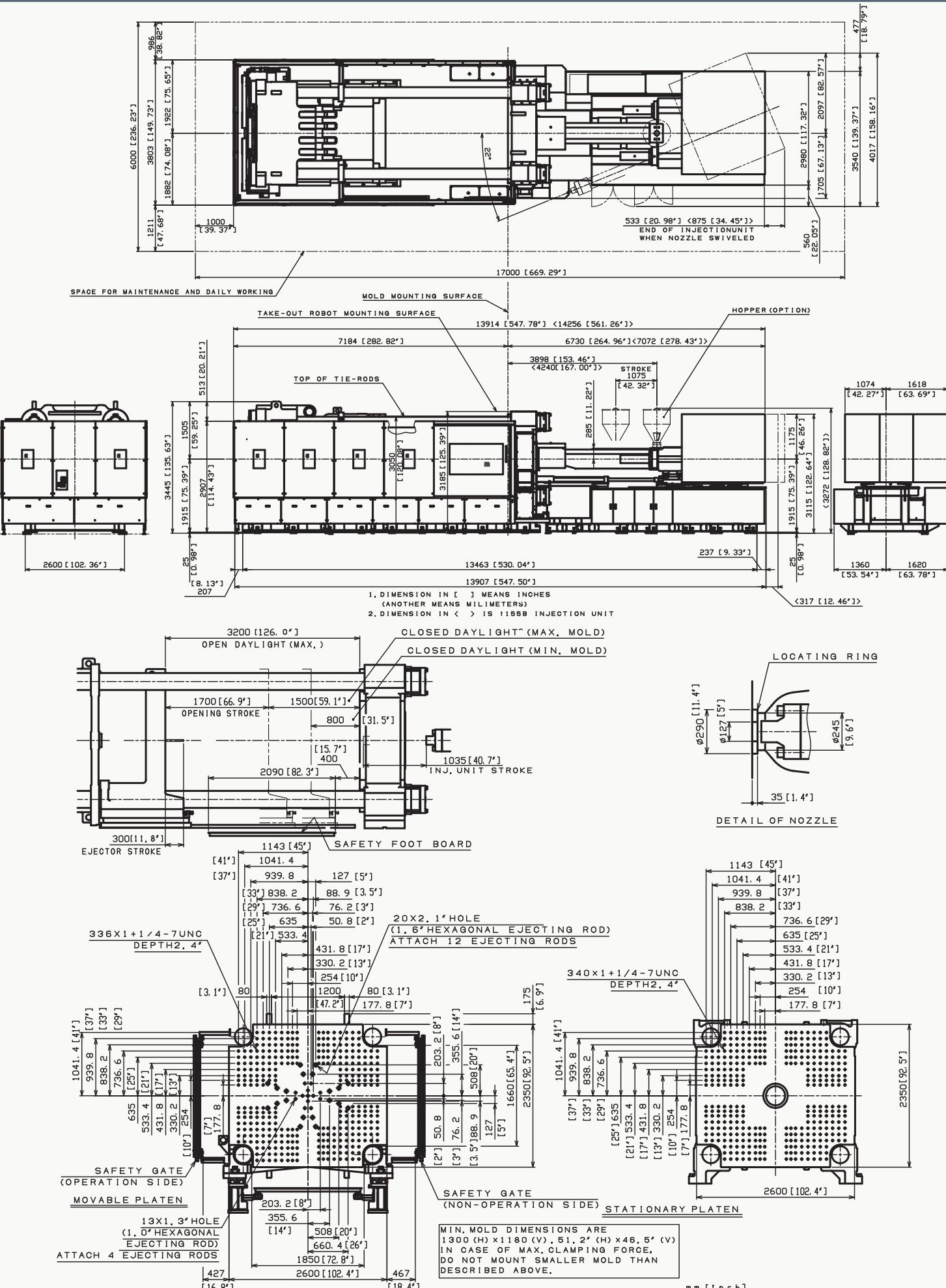


1. DIMENSION IN < > IS 1120B INJECTION UNIT.
2. DIMENSION * MARK IS THE FOUNDATION BOLT SPECIFICATION.

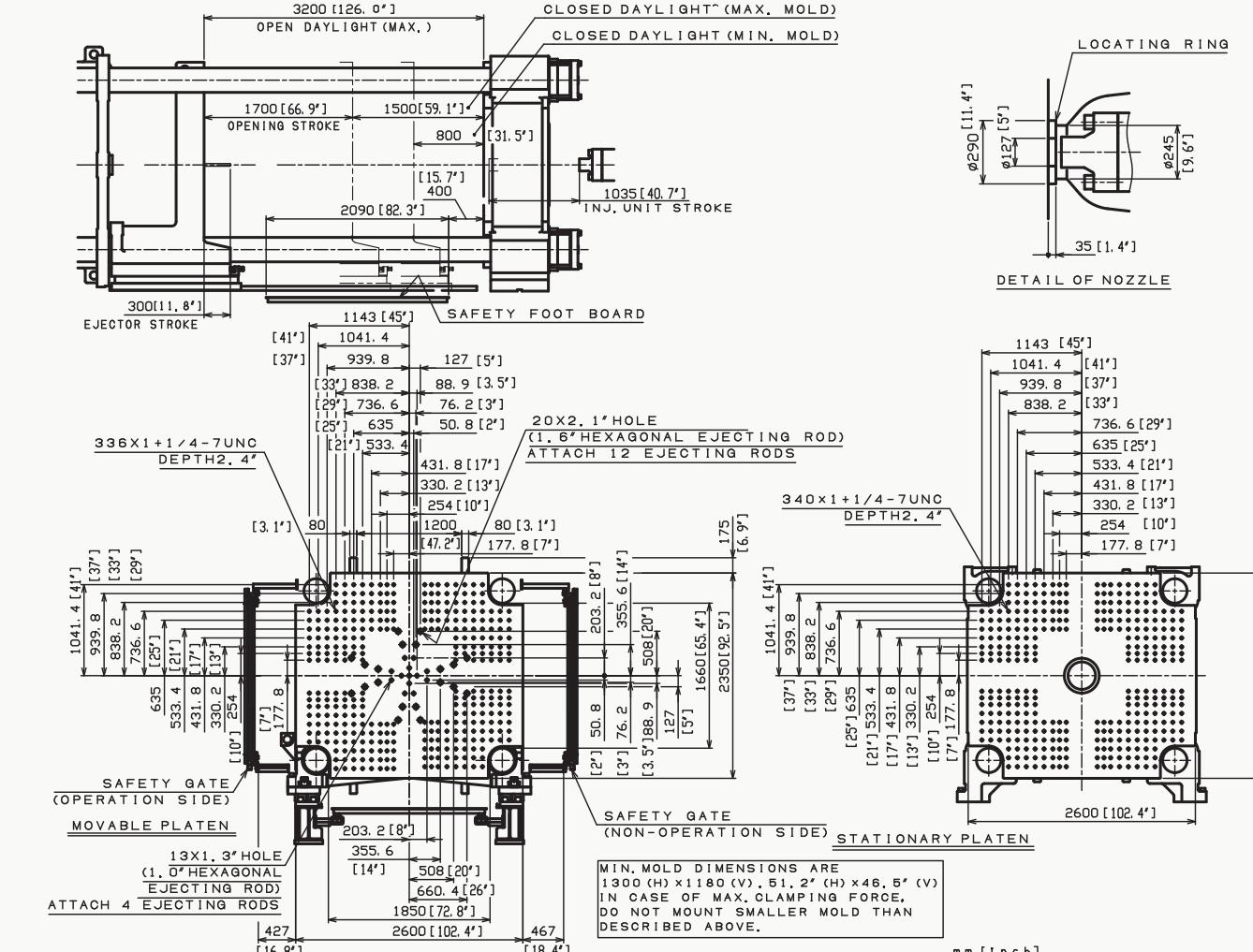


MIN. MOLD DIMENSIONS ARE
820(H) x 820(V),
(32.28"(H) x (32.28"(V)).
IN CASE OF MAX. CLAMPING FORCE,
DO NOT MOUNT SMALLER MOLD THAN
DESCRIBED ABOVE.

EC1950SX



1. DIMENSION IN [] MEANS INCHES
(ANOTHER MEANS MILLIMETERS)
2. DIMENSION IN < > IS 1155B INJECTION UNIT



mm [inch]