TOSHIBA MACHINE

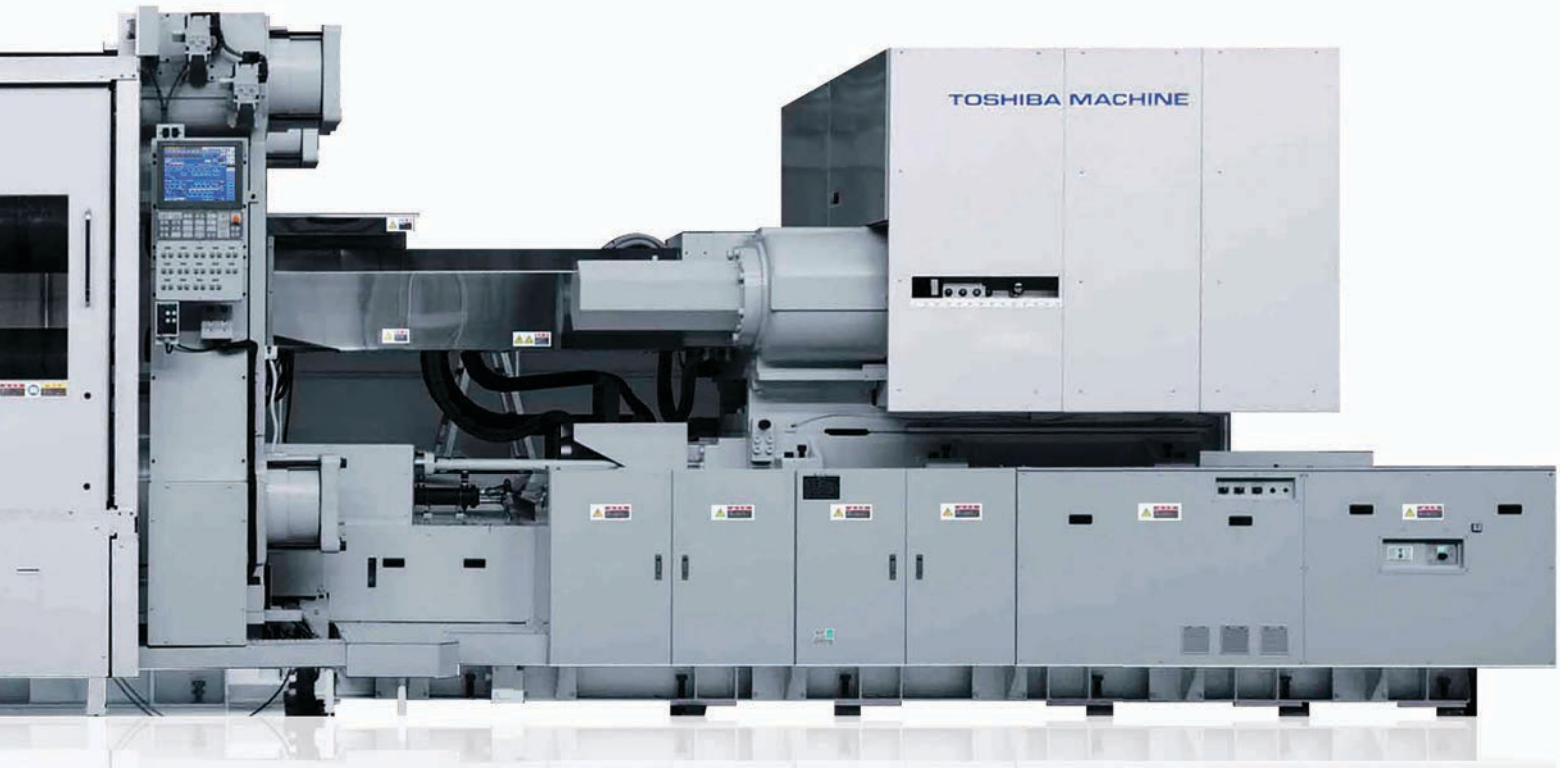
ECSXII

Smart Electric Molding Solutions.

www.Toshiba-Machine.com

Watch the ECSXII video.

Meet the Next Generation of Electrics



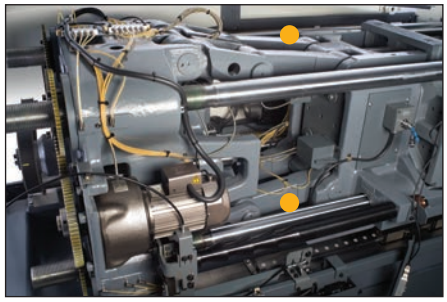
The ECSXII from Toshiba Machine

In 2010, Toshiba 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.

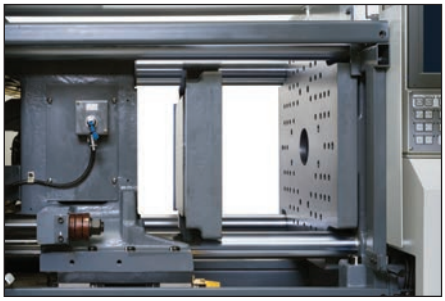
Now we've taken the next step. Introducing the all-new ECSXII – electrics with the same versatility and performance, along with a streamlined frame design, significantly faster injection speeds and new features making your investment work harder and smarter. Extremely flexible and versatile, the new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

Features & Benefits

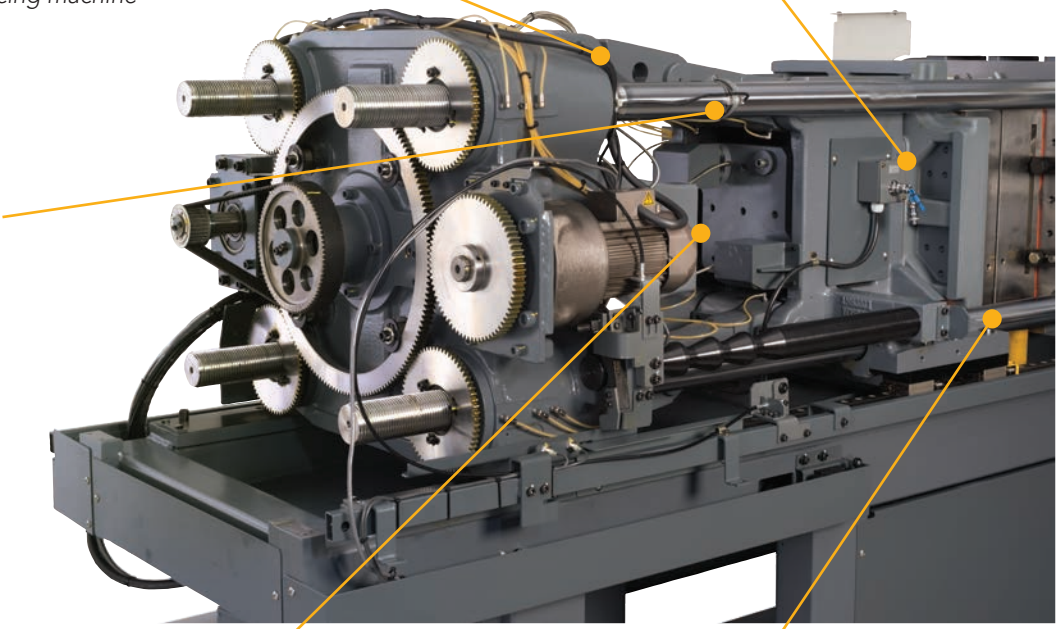
Video

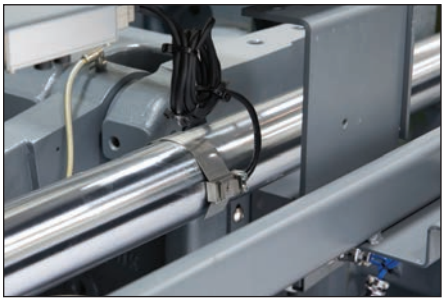


The ECSXII's 5-point Link-line toggle mechanism is angled to distribute force evenly across the platen, increasing quality and minimizing defects. It has the added benefit of extending mold life and reducing machine maintenance.

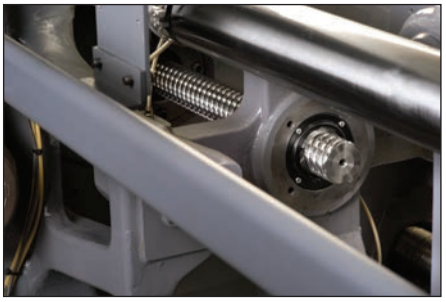


On 30 - 390 ton units the two-piece removable platens can be changed out in 15 minutes giving you extraordinary flexibility. On larger units the moving platen is removable.



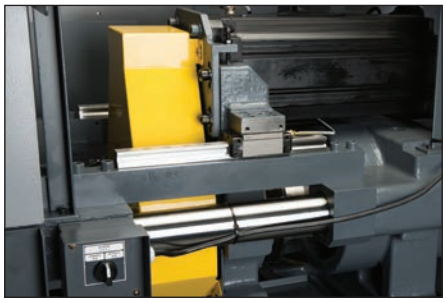


Strain gauge adjusts tonnage automatically and on the fly during the cycle. This ensures accurate tonnage at all times.

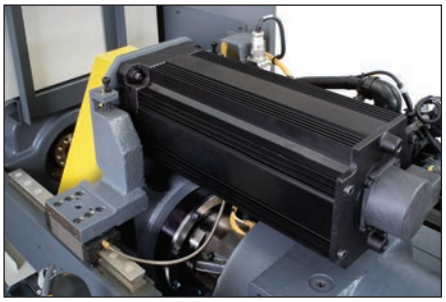


Ball screws are designed to push heavier loads, spreading the load across a much larger surface area than conventional ball screws.

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

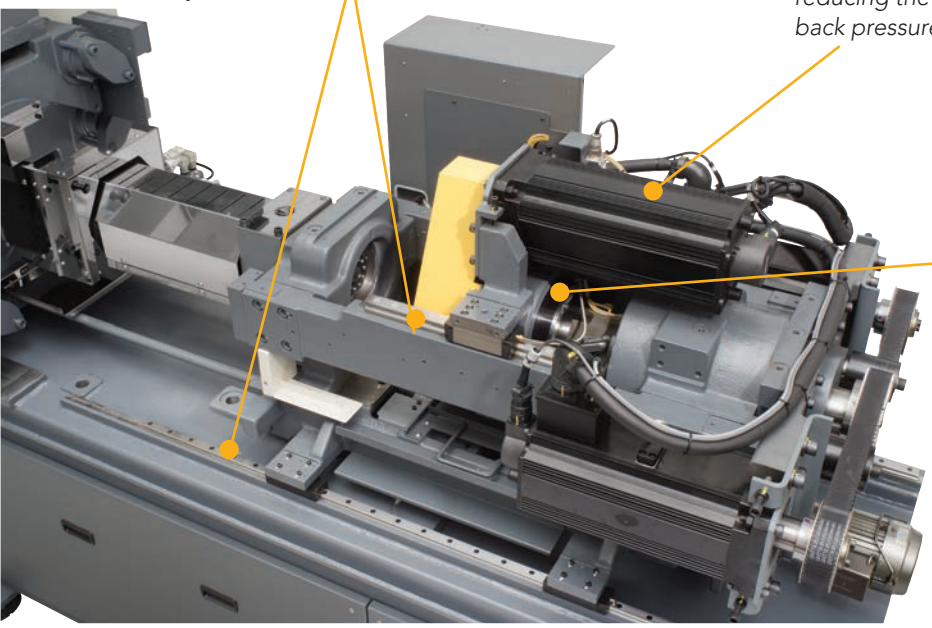


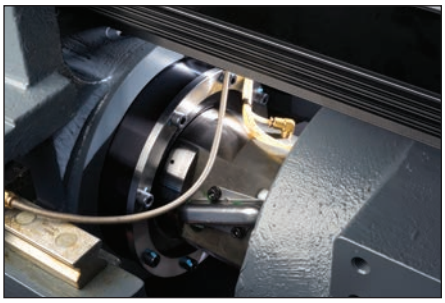
(S3) Simple, Steady, Smooth – Friction free drive system ensures more accurate injection speed and back pressure control, improving shot-to-shot repeatability throughout the processing cycle.



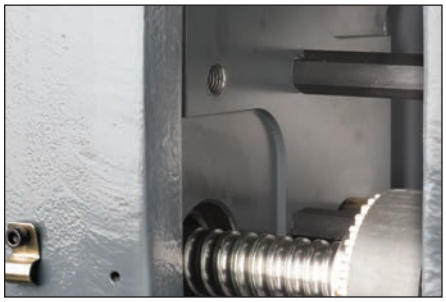
The heavy weight on the injection unit is supported on linear guides, greatly reducing the drag of injection and back pressure.

Video





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.



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, Toshiba'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 Toshiba 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.

Integrated control panel on 30-390 ton units. Box-style control panel on larger units.

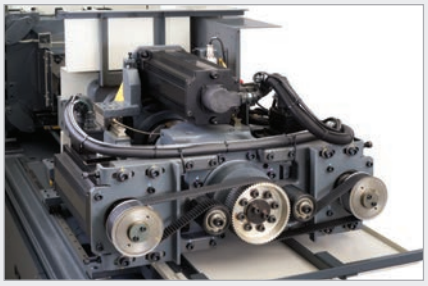
Control on the V50 controller

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.

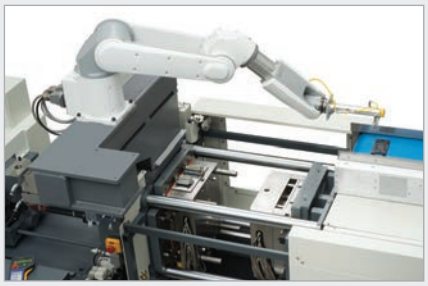
Boost productivity with FIDS

With Toshiba'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.)

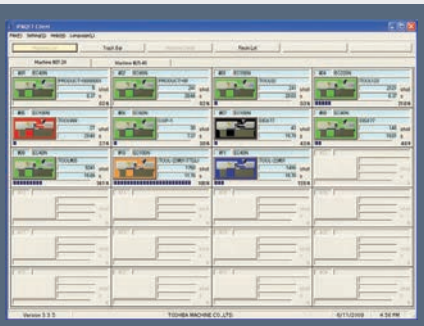


Robot-ready

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	H x V	mm	320 x 290					410 x 360				410 x 360				
		H x V	in	12.6 x 11.4					16.1 x 14.2				16.1 x 14.2				
	Platen Dimension	H x V	mm	440 x 420					510 x 460				580 x 530				
		H x V	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				
	Mold Height	Min. - Max	mm	150 - 330					150 - 370				150 - 470				
		Min. - Max	in	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	Injection Unit			i0.4		i1			U1.5				U22				
	Barrel Code			0.4Y	0.4A	1YZ	1Y	1A	1YZ	1Y	1.5Y	1.5A	1Y	1.5Y	2Y	2A	2B
	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
		PS	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
		PE	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	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	40300	31900	39200	39200	31900	39200	39200	40000	31900	39200	40000	41600	31900	25200
	Injection Velocity	STD	mm/s	525		300			300				300				
		STD	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
		STD	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				
		HIGH	in/s	-		19.7			19.7				19.7				
	Injection Rate	HIGH	cm^3/s	-	-	157	190	245	157	190	245	308	190	245	308	402	509
		HIGH	in^3/s	-	-	9.58	11.6	15.0	9.58	11.6	15.0	18.8	11.6	15.0	18.8	24.5	31.1
	Plasticizing Capacity	PS	g/sec	2.2	3.3	3.9	6.1	7.8	3.9	6.1	6.9	9.7	6.1	6.9	11.1	16.9	23.1
		PS	oz/sec	0.08	0.12	0.14	0.22	0.27	0.14	0.22	0.24	0.34	0.22	0.24	0.39	0.60	0.81
	Screw Speed		RPM	480	480	430	420	420	430	420	390	390	420	390	400	390	350
	Screw Torque		N-m	58	81	109	143	204	109	143	204	280	143	204	280	407	407
			lbf-ft	42.8	59.7	80.4	105	150	80.4	105	150	207	105	150	207	300	300
	Nozzle Touch Force		kN	17.6		17.6			17.6				17.6				
			US Ton	2.0		2.0			2.0				2.0				
GENERAL	Main Breaker Capacity	STD	A	75		75			75		75		75				
	Electric Capacity	STD	kVA	20		22			23		28		23	28	35		
	Main Breaker Capacity	HIGH SPEED	A	-		75			75		100		125				
	Electric Capacity	HIGH SPEED	kVA	-		33			35		42		35	42	53		
	Heater Capacity		kW	3.4		4.8			4.8		6.6		4.8	6.6	6.8		7.6
	Machine Dimensions L x W x H		m	2.9 x 1.0 x 1.6		3.2 x 1.0 x 1.6			3.7 x 1.3 x 1.6		3.9 x 1.3 x 1.6		4.2 x 1.3 x 1.6		4.2 x 1.3 x 1.6		
			ft	9.5 x 3.3 x 5.3		10.3 x 3.3 x 5.3			12.5 x 3.9 x 5.2		12.8 x 3.9 x 5.2		13.2 x 4.0 x 5.2		13.7 x 4.0 x 5.2		
	Machine Weight		t	2.0		2.0			3.0		3.1		3.1	3.2	3.3		
			US Ton	2.2		2.2			3.3		3.4		3.5	3.6	3.6		

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

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 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
			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		cm^3	78	102	130	78	102	162	201	254	78	102	162	201	254
			in^3	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
		PS	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
		PE	g	57	75	95	57	75	115	145	185	57	75	115	145	185
		PE	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
			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
			PSI	41600	31900	25200	41600	31900	35800	29000	22900	41600	31900	35800	29000	22900
	Injection Velocity	STD	mm/s	300			300					300				
		STD	in/s	11.8			11.8					11.8				
	Injection Rate	STD	cm^3/s	184	241	305	184	241	305	376	477	184	241	305	376	477
		STD	in^3/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		400		
		HIGH	in/s	19.7			19.7		15.7			19.7		15.7		
	Injection Rate	HIGH	cm^3/s	308	402	509	308	402	407	502	636	308	402	407	502	636
		HIGH	in^3/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
		PS	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	390	350	400	390	350	320	285	400	390	350	320	285
	Screw Torque		N-m	280	407	407	280	407	566	761	761	280	407	566	761	761
			lbf-ft	207	300	300	207	300	417	561	561	207	300	417	561	561
	Nozzle Touch Force		kN	17.6			17.6					17.6				
			US Ton	2.0			2.0					2.0				
GENERAL	Main Breaker Capacity	STD	A	75			100					100				
	Electric Capacity	STD	kVA	35			35		48			35		48		
	Main Breaker Capacity	HIGH SPEED	A	125			125					125				
	Electric Capacity	HIGH SPEED	kVA	53			53		61			53		61		
	Heater Capacity		kW	6.8		7.6	6.8		11.2		11.9	6.8		11.2		11.9
	Machine Dimensions L x W x H		m	4.7 x 1.3 x 1.7					5.0 x 1.3 x 1.7			4.8 x 1.5 x 1.7		5.0 x 1.4 x 1.7		
			ft	15.2 x 4.2 x 5.4					16.1 x 4.2 x 5.4			15.5 x 4.6 x 5.6		16.4 x 4.6 x 5.6		
	Machine Weight		t	4.2					4.3			5.2		5.3		
			US Ton	4.6					4.7			5.8		5.8		

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ECSXII Specifications

	ITEM		UNIT	EC200SXII							
CLAMP	Clamp Force		tf	180							
			US Ton	198							
	Tie Bar Distance	H x V	mm	560 x 510							
		H x V	in	22.0 x 20.1							
	Platen Dimension	H x V	mm	790 x 740							
		H x V	in	31.1 x 29.1							
	Clamp Stroke		mm	450							
			in	17.7							
	Maximum Daylight		mm	1050							
			in	41.3							
	Mold Height	Min. - Max	mm	200 - 600							
		Min. - Max	in	7.87 - 23.6							
	Ejector Force		tf	5.0							
			US Ton	5.5							
	Ejector Stroke		mm	130							
			in	5.12							
INJECTION	Injection Unit			U34			U48				
	Barrel Code			4Y	4A	4B	4Y	6Y	8Y	8A	8B
	Screw Diameter		mm	36	40	45	36	40	45	50	55
			in	1.42	1.57	1.77	1.42	1.57	1.77	1.97	2.17
	Injection Capacity		cm^3	162	201	254	162	226	318	392	475
			in^3	9.94	12.3	15.5	9.94	13.8	19.4	24.0	29.0
	Shot Volume	PS	g	145	180	230	145	208	292	361	437
		PS	oz	5.11	6.35	8.11	5.11	7.34	10.30	12.73	15.41
		PE	g	115	145	185	115	165	232	286	346
		PE	oz	4.06	5.11	6.52	4.06	5.82	8.18	10.09	12.20
	Maximum Injection Pressure		MPa	247	200	158	247	253	247	200	165
			PSI	35800	29000	22900	35800	36700	35800	29000	23900
	Maximum Holding Pressure		MPa	247	200	158	247	253	247	200	165
			PSI	35800	29000	22900	35800	36700	35800	29000	23900
	Injection Velocity	STD	mm/s	300			250				
		STD	in/s	11.8			9.8				
	Injection Rate	STD	cm^3/s	305	376	477	254	314	397	490	593
		STD	in^3/s	18.61	22.94	29.11	15.5	19.2	24.23	29.90	36.19
	Injection Velocity	HIGH	mm/s	400			400		350		
		HIGH	in/s	15.7			15.7		13.8		
	Injection Rate	HIGH	cm^3/s	407	502	636	407	502	556	687	831
		HIGH	in^3/s	24.84	30.6	38.8	24.84	30.6	33.9	41.9	50.7
	Plasticizing Capacity	STD	g/sec	23.1	30.6	33.3	23.1	30.6	33.3	44.4	52.8
		STD	oz/sec	0.81	1.1	1.2	0.81	1.1	1.18	1.57	1.86
		HIGH	g/sec	-	-	-	-	-	-	-	-
		HIGH	oz/sec	-	-	-	-	-	-	-	-
	Screw Speed	STD	RPM	350	320	285	350	320	285	255	230
		HIGH	RPM	-	-	-	-	-	-	-	-
	Screw Torque	STD	lbf-ft	566	761	761	566	761	1058	1421	1421
		HIGH	lbf-ft	417	561	561	417	561	780	1048	1048
	Nozzle Touch Force		kN	29.4			29.4				
			US Ton	3.3			3.3				
GENERAL	Main Breaker Capacity	STD	A	100			125				
	Electric Capacity	STD	kVA	48			48	59	61		
	Main Breaker Capacity	HIGH SPEED	A	125			175				
	Electric Capacity	HIGH SPEED	kVA	61			61	75	81		
	Heater Capacity		kW	11.2		11.9	11.2	13.6	15.2		15.8
	Machine Dimensions L x W x H		m	5.7 x 1.5 x 1.9			5.7 x 1.5 x 1.9	5.9 x 1.5 x 1.9	6.0x 1.5 x 1.9		
			ft	18.7 x 4.9x 6.2			18.7 x 4.9x 6.2	19.4 x 4.9 x 6.2	19.7 x 4.9 x 6.2		
	Machine Weight		t	7.0			7.3	7.3	7.3		
			US Ton	7.7			8.0	8.0	8.0		

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

ECSXII Specifications

	ITEM		UNIT	EC250SXII							
CLAMP	Clamp Force		tf	230							
			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	70
			in	1.42	1.57	1.77	1.97	2.17	1.97	2.36	2.76
	Injection Capacity		cm^3	162	226	318	392	475	589	848	1155
			in^3	9.94	13.8	19.4	24.0	29.0	35.9	51.8	70.5
	Shot Volume	PS	g	145	208	292	361	437	542	780	1063
			oz	5.11	7.34	10.30	12.78	15.4	19.1	27.5	37.5
		PE	g	115	165	232	286	347	430	619	843
			oz	4.06	5.82	8.18	10.09	12.2	15.20	21.8	29.7
	Maximum Injection Pressure		MPa	247	253	247	200	165	288	200	147
			PSI	35800	36700	35800	29000	23900	41800	29000	21300
	Maximum Holding Pressure		MPa	247	253	247	200	165	288	200	147
			PSI	35800	36700	35800	29000	23900	41800	29000	21300
	Injection Velocity	STD	mm/s	250					160		
			in/s	9.8					6.3		
	Injection Rate	STD	cm^3/s	254	314	397	490	593	314	452	616
			in^3/s	15.5	19.2	24.23	29.90	36.2	19.2	27.6	37.6
	Injection Velocity	HIGH	mm/s	400		350			300		
			in/s	15.7		13.8			11.8		
	Injection Rate	HIGH	cm^3/s	407	502	556	687	831	589	848	1155
			in^3/s	24.8	30.6	38.9	41.9	50.7	35.9	51.8	70.5
	Plasticizing Capacity	STD	g/sec	23.1	30.6	33.3	44.4	52.8	44.4	63.9	75.0
			oz/sec	0.81	1.1	1.18	1.57	1.86	1.57	2.25	2.65
		HIGH	g/sec	-	-	-	-	-	-	52.8	64.6
			oz/sec	-	-	-	-	-	-	1.86	2.28
	Screw Speed	STD	RPM	350	320	285	255	230	255	220	180
		HIGH TORQUE	RPM	-	-	-	-	-	-	180	155
	Screw Torque	STD	lbf-ft	417	561	780	1048	1048	1048	1746	1746
		HIGH TORQUE	lbf-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 Toshiba Machine for most current specifications.

ECSXII Specifications

	ITEM		UNIT	EC310SXII						EC390SXII							
CLAMP	Clamp Force		tf	280						350							
			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 1030							
		H x V	in	40.5 x 37.7						43.7 x 40.6							
	Clamp Stroke		mm	600						650							
			in	23.6						25.6							
	Maximum Daylight		mm	1350						1470							
			in	53.1						57.9							
	Mold Height	Min. - Max	mm	250 - 750						300 - 820							
		Min. - Max	in	9.8 - 29.5						11.8 - 32.3							
	Ejector Force		tf	6.0						6.0							
			US Ton	6.6						6.6							
	Ejector Stroke		mm	150						150							
			in	5.9						5.9							
INJECTION	Injection Unit*			i10			i17			i10			i17			i26	
	Barrel Code			Y	A	B	Y	AT	B	Y	A	B	Y	AT	B	AT	B
	Screw Diameter		mm	45	50	55	50	60	70	45	50	55	50	60	70	70	80
			in	1.77	1.97	2.17	1.97	2.36	2.76	1.77	1.97	2.17	1.97	2.36	2.76	2.76	3.15
	Injection Capacity		cm^3	397	490	593	589	848	1155	397	490	593	589	848	1155	1340	1750
			in^3	24.3	30.0	36.2	35.9	51.8	70.5	24.3	30.0	36.2	35.9	51.8	70.5	82.2	107.4
	Shot Volume	PS	g	365	450	545	542	780	1063	365	450	545	542	780	1063	1230	1610
		PS	oz	12.9	15.9	19.2	19.1	27.5	37.5	12.9	15.9	19.2	19.1	27.5	37.5	43.4	56.8
		PE	g	289	357	432	430	619	843	289	357	432	430	619	843	980	1280
		PE	oz	10.2	12.6	15.2	15.2	21.8	29.7	10.2	12.6	15.2	15.2	21.8	29.7	34.6	45.1
	Maximum Injection Pressure		MPa	247	200	165	288	200	147	247	200	165	288	200	147	190	145
			PSI	35800	29000	23900	41800	29000	21300	35800	29000	23900	41800	29000	21300	27600	21000
	Maximum Holding Pressure		MPa	247	200	165	288	200	147	247	200	165	288	200	147	160	122
			PSI	35800	29000	23900	41800	29000	21300	35800	29000	23900	41800	29000	21300	23200	17700
	Injection Velocity	STD	mm/s	250			160			250			160			160	
		STD	in/s	9.8			6.3			9.8			6.3			6.3	
	Injection Rate	STD	cm^3/s	397	490	593	314	452	616	397	490	593	314	452	616	615	804
		STD	in^3/s	24.3	30.0	36.2	19.2	27.6	37.6	24.3	30.0	36.2	19.2	27.6	37.6	37.6	49.1
	Injection Velocity	HIGH	mm/s	350			300			350			300			-	
		HIGH	in/s	13.8			11.8			13.8			11.8			-	
	Injection Rate	HIGH	cm^3/s	556	687	831	589	848	1155	556	687	831	589	848	1155	-	-
		HIGH	in^3/s	34.0	41.9	50.7	35.9	51.8	70.5	34	41.9	50.7	35.9	51.8	70.5	-	-
	Plasticizing Capacity	STD	g/sec	33.3	44.4	52.8	44.4	63.9	75.0	33.3	44.4	52.8	44.4	63.9	75.0	72.2	94.4
		STD	oz/sec	1.18	1.57	1.86	1.57	2.25	2.65	1.18	1.57	1.86	1.57	2.25	2.65	2.55	3.33
		HIGH	g/sec	-	-	-	-	52.8	64.6	-	-	-	-	52.8	64.6	47.2	63.9
		HIGH	oz/sec	-	-	-	-	1.86	2.28	-	-	-	-	1.86	2.28	1.67	2.25
	Screw Speed	STD	RPM	285	255	230	255	220	180	285	255	230	255	220	180	180	170
		HIGH TORQUE	RPM	-	-	-	-	180	155	-	-	-	-	180	155	120	120
	Screw Torque	STD	lbf-ft	780	1048	1048	1048	1746	1746	780	1048	1048	1048	1746	1746	1903	1903
		HIGH TORQUE	lbf-ft	-	-	-	-	2139	2139	-	-	-	-	2139	2139	2441	2441
	Nozzle Touch Force		kN	29.4			29.4			29.4			29.4			44.1	
			US Ton	3.3			3.3			3.3			3.3			5.0	
GENERAL	Main Breaker Capacity	STD	A	125			175			125			175			200	
	Electric Capacity	STD	kVA	61			61			61			61			73	
	Main Breaker Capacity	HIGH SPEED	A	175			225			175			225			-	
	Electric Capacity	HIGH SPEED	kVA	81			103			81			100			-	
	Heater Capacity		kW	15.2		15.8	21.7		25.5	15.2		15.8	21.7		25.5	26.5	
	Machine Dimensions L x W x H		m	6.7 x 2.0 x 2.2		6.8 x 2.0 x 2.2	6.8 x 2.0 x 2.2		7.0 x 2.0 x 2.2	7.2x2.1x2.2		7.2x2.1x2.2	7.2x2.1x2.2		7.3x2.1x2.2	7.6x2.1x2.2	
			ft	22.0x6.4x7.1		22.3 x 6.4 x 7.1	22.1 x 6.4 x 7.1		22.8 x 6.6 x 7.1	23.4x6.6x7.1		23.4x6.6.7.1	23.4x6.6x7.1		23.8x6.6x7.1	24.9x6.6x7.1	
	Machine Weight		t	12.5			13.8			15.3			16.5			17.5	
			US Ton	13.7			15.2			16.7			18.2			19.1	

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

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

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			
		H x V	in	34.2 x 31.8							38.1 x 35.8			
	Platen Dimension	H x V	mm	1230 x 1160							1365 x 1300			
		H x V	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			
		Min. - Max	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		i36	
	Barrel Code			Y	AT	B	AT	B	AT	B	AT	B	AT	B
	Screw Diameter		mm	50	60	70	70	80	80	90	70	80	80	90
			in	1.97	2.36	2.76	2.76	3.15	3.15	3.54	2.76	3.15	3.15	3.54
	Injection Capacity		cm^3	589	848	1155	1340	1750	1880	2380	1340	1750	1880	2380
			in^3	35.9	51.8	70.5	82.2	107	115	146	82.2	107	115	146
	Shot Volume	PS	g	542	780	1063	1230	1610	1730	2190	1230	1610	1730	2190
		PS	oz	19.1	27.5	37.5	43.4	56.8	61.0	77.2	43.4	56.8	61.0	77.2
		PE	g	430	619	843	980	1280	1370	1740	980	1280	1370	1740
		PE	oz	15.2	21.8	29.7	34.6	45.1	48.3	61.4	34.6	45.1	48.3	61.4
	Maximum Injection Pressure		MPa	288	200	147	190	145	190	150	190	145	190	150
			PSI	41800	29000	21300	27600	21000	27600	21800	27600	21000	27600	21800
	Maximum Holding Pressure		MPa	288	200	147	160	122	160	126	160	122	160	126
			PSI	41800	29000	21300	23200	17700	23200	18300	23200	17700	23200	18300
	Injection Velocity	STD	mm/s	160			160		140		160		140	
		STD	in/s	6.3			6.3		5.5		6.3		5.5	
	Injection Rate	STD	cm^3/s	314	452	616	615	804	704	891	615	804	704	891
		STD	in^3/s	19.2	27.6	37.6	37.6	49.1	42.9	54.4	37.6	49.1	42.9	54.4
	Injection Velocity	HIGH	mm/s	300			-		-		-		-	
		HIGH	in/s	11.8			-		-		-		-	
	Injection Rate	HIGH	cm^3/s	589	848	1155	-	-	-	-	-	-	-	-
		HIGH	in^3/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	72.2	94.4	94.4	111.1
		STD	oz/sec	1.57	2.25	2.65	2.55	3.33	3.33	3.92	2.55	3.33	3.33	3.92
		HIGH	g/sec	-	52.8	64.6	47.2	63.9	61.1	77.8	47.2	63.9	61.1	77.8
		HIGH	oz/sec	-	1.86	2.28	1.67	2.25	2.16	2.74	1.67	2.25	2.16	2.74
	Screw Speed	STD	RPM	255	220	180	180	170	170	150	180	170	170	150
		HIGH TORQUE	RPM	-	180	155	120	120	115	115	120	120	115	115
	Screw Torque	STD	lbf-ft	1048	1746	1746	1903	1903	2441	2441	1903	1903	2441	2441
		HIGH TORQUE	lbf-ft	-	2139	2139	2441	2441	3400	3400	2441	2441	3400	3400
	Nozzle Touch Force		kN	29.4			44.1		58.8		44.1		58.8	
			US Ton	3.3			5.0		6.0		5.0		6.0	
GENERAL	Main Breaker Capacity	STD	A	175			200		200		200		200	
	Electric Capacity	STD	kVA	76			83		89		84		90	
	Main Breaker Capacity	HIGH SPEED	A	225			-		-		-		-	
	Electric Capacity	HIGH SPEED	kVA	103			-		-		-		-	
	Heater Capacity		kW	21.7		25.5	26.5		34.3		26.5		34.3	
	Machine Dimensions L x W x H		m	8.1 x 2.2 x 2.2			8.1 x 2.2 x 2.2		8.6x2.2x2.4	8.6x2.2x2.4	8.4 x 2.3 x 2.2		8.9 x 2.3 x 2.4	8.9 x 2.3 x 2.3
			ft	26.5 x 7.0 x 7.3			26.5x7.0x7.3		28.0x7.0x7.7	28.0x7.0x7.7	27.6 x 7.5 x 7.3		29.1x7.5x7.7	29.1x7.5x7.7
	Machine Weight		t	21.7			22.5		23.9		27.1		28.5	
			US Ton	23.9			24.9		26.4		29.9		31.4	

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

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

ECSX Specifications

	ITEM		UNIT	EC720SX				EC950SX				EC1450SX		EC1950SX			
CLAMP	Clamp force		tf	650				850				1300		1800			
			USTon	716.5				937				1433		1980			
	Tie bar distance	H x V	mm	1060 x 960				1320 x 1320				1400 x 1400		1850 x 1660			
		H x V	in	41.7 x 37.7				51.9 x 51.9				55.1 x 55.1		72.8 x 65.4			
	Platen dimension	H x V	mm	1500 x 1400				1790 x 1790				2000 x 2000		2600 x 2350			
		H x V	in	59.0 x 55.1				70.4 x 70.4				78.7 x 78.7		102.4 x 92.5			
	Clamp Stroke		mm	1000				1200				1500		1700			
			in	39.4				47.2				59		66.9			
	Maximum daylight		mm	2050				2300				2800		3200			
			in	80.7				90.6				110.2		126.0			
	Mold Height	Min.x Max	mm	450 x 1050				500 x 1100				650 x 1300		800 x 1500			
		Min.x Max	in	17.7 x 41.3				19.6 x 43.3				25.6 x 51.2		31.5 x 59.1			
	Ejector force		tf	18				18				28.5		44.0			
			USTon	19.8				19.8				31.4		48.5			
	Ejector Stroke		mm	200				200				250		300			
			in	7.9				7.9				9.8		11.8			
INJECTION	Injection Unit			i61		i78		i61		i78		i120		i120		i155	
	Barrel code			AT	B	AT	B	AT	B	AT	B	AT	B	A	B	A	B
	Screw Diameter		mm	95	105	105	120	95	105	105	120	115	125	115	125	125	140
			in	3.74	4.13	4.13	4.72	3.74	4.13	4.13	4.72	4.53	4.92	4.53	4.92	4.92	5.51
	Injection Capacity		cm^3	3150	3850	4320	5650	3150	3850	4320	5650	6560	7750	6560	7750	8430	10570
			in^3	192.2	234.9	263.6	344.8	192.2	234.9	263.6	344.8	400.3	472.9	401	474	515	646
	Shot Volume	PS	g	2898	3542	3974	5198	2898	3542	3974	5198	6040	7130	6040	7130	7750	9730
			oz	102.2	124.9	140.2	183.3	102.2	124.9	140.2	183.3	213.1	251.5	213	251	273	343
		PE	g	2300	2811	3154	4125	2300	2811	3154	4125	4790	5660	4790	5660	6150	7720
			oz	81.1	99.2	111.3	145.5	81.1	99.2	111.3	145.5	167.0	199.6	169	200	217	272
	Maximum Injection Pressure		MPa	180	147	180	138	180	147	180	138	180	152	180	152	180	143
			PSI	26,100	21,300	26100	20000	26,100	21,300	26100	20000	26100	22000	26100	22000	26100	20700
	Maximum Holding Pressure		MPa	150	123	150	115	150	123	150	115	150	127	150	127	150	119
			PSI	21,800	17,800	21,800	16,700	21,800	17,800	21,800	16,700	21800	18400	21800	18400	21800	17300
	Injection Rate	STD	cm^3/s	1063	1299	1299	1696	1063	1299	1299	1696	1450	1710	1450	1710	1650	2070
			in^3/s	64.9	79.3	79.3	103.5	64.9	79.3	79.3	103.5	88.5	104.3	88.5	104.4	100.7	126.3
	Injection Velocity	STD	mm/s	150		150		150		150		140		140		135	
			in/s	5.9		5.9		5.9		5.9		5.5		5.51		5.31	
	Plasticizing capacity (PS)	STD	g/sec	116.7	136.1	136.1	161.1	116.7	136.1	136.1	161.1	144.4	161.1	180.6	202.8	202.8	244.4
			oz/sec	4.1	4.8	4.8	5.7	4.1	4.8	4.8	5.7	5.1	5.7	6.37	7.15	7.15	8.62
		HIGH TORQUE	g/sec	80.6	102.8	75	102.8	80.6	102.8	75	102.8	102.8	122.2	-	-	-	-
			oz/sec	2.8	3.6	2.6	3.6	2.8	3.6	2.6	3.6	3.6	4.3	-	-	-	-
	Screw torque	STD	Nm	5500	5500	7090	7090	5500	5500	7090	7090	9150	9150	8660	8660	9264	11430
			ft-lbf	4057	4057	5229	5229	4057	4057	5229	5229	6749	6749	6388	6388	6833	8431
		HIGH TORQUE	Nm	7090	7090	10300	10300	7090	7090	10300	10300	13700	13700	-	-	-	-
			ft-lbf	5229	5229	7597	7597	5229	5229	7597	7597	10105	10105	-	-	-	-
	Screw speed	STD	RPM	140	127	127	110	140	127	127	110	110	101	138	127	127	114
		HIGH TORQUE	RPM	95	95	71	71	95	95	71	71	78	78	-	-	-	-
	Nozzle touch force		kN	58.7				58.7				101		92.4		92.4	
			USTon	6.6				6.6				10.3		10.4		10.4	
General	Main Breaker Capacity		A	300		350		300		350		400		500		500	
	Electric Capacity		kVa	121		147.4		121		147.4		166.3		196.5		209.5	
	Heater Capacity		kW	44.0		57.2		44.0		57.2		69.4		69.2	75.7	76.3	92.6
	Machine Dimensions L x W x H		m	9.8 x 2.6 x 2.7		10.1 x 2.6 x 2.7	10.4 x 2.6 x 2.7	10.6 x 2.9 x 2.7		10.6 x 2.9 x 2.7	10.6 x 2.9 x 2.7	12.8 x 3.2 x 3.2		13.7 x 3.8 x 3.5		13.9 x 3.8 x 3.5	
			ft	32.1 x 8.6 x 8.9		33.2 x 8.6 x 8.9	34.1 x 8.6 x 8.9	34.8 x 9.5 x 8.9		34.8 x 9.5 x 8.9	35.8 x 9.5 x 8.9	42.8 x 10.5 x 10.5		45.0 x 12.5 x 11.5		45.0 x 12.5 x 11.5	
	Machine Weight		t	40.0		41.5		53.5		55.0		89		132		142	
			US Ton	44.1		45.7		59.0		60.6		98.1		146		157	

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
- 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

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
- 3-step high-speed programmed control
- Prestrol/Injection Compression software is standard, but additional hardware may be required. Contact factory for details.
- Clamp pressure digital display in two steps
- Sensitive mold protection control - provides torque monitor and limiter in two high-speed ranges, and torque/time limiter in low-pressure clamp range
- Automatic mold thickness adjust circuit
- Low pressure and slow speed circuit for mold set-up mode
- Lock-up delay timer
- Lock-up speed digital setting
- Setting of number of repeated ejections
- 3-step ejection speed programmed control
- 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

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
- Profile display/storing/measure functions
- Quality monitoring
- Diagnostic function
- Operation select function at production completion
- MOLDLYZER
- iPAQET LITE
- LCD touch panel
- High-Speed control cycle
- List setting screen
- Operation indicator
- External output signal customize function
- Password function

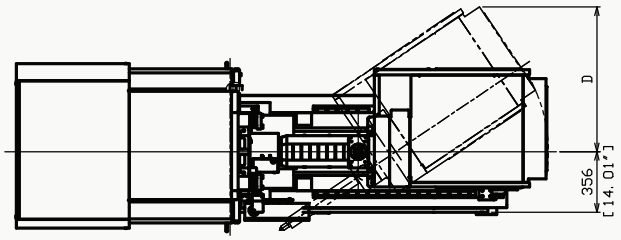
Note: Specifications can change without notice. Contact Toshiba Machine for most current specifications.

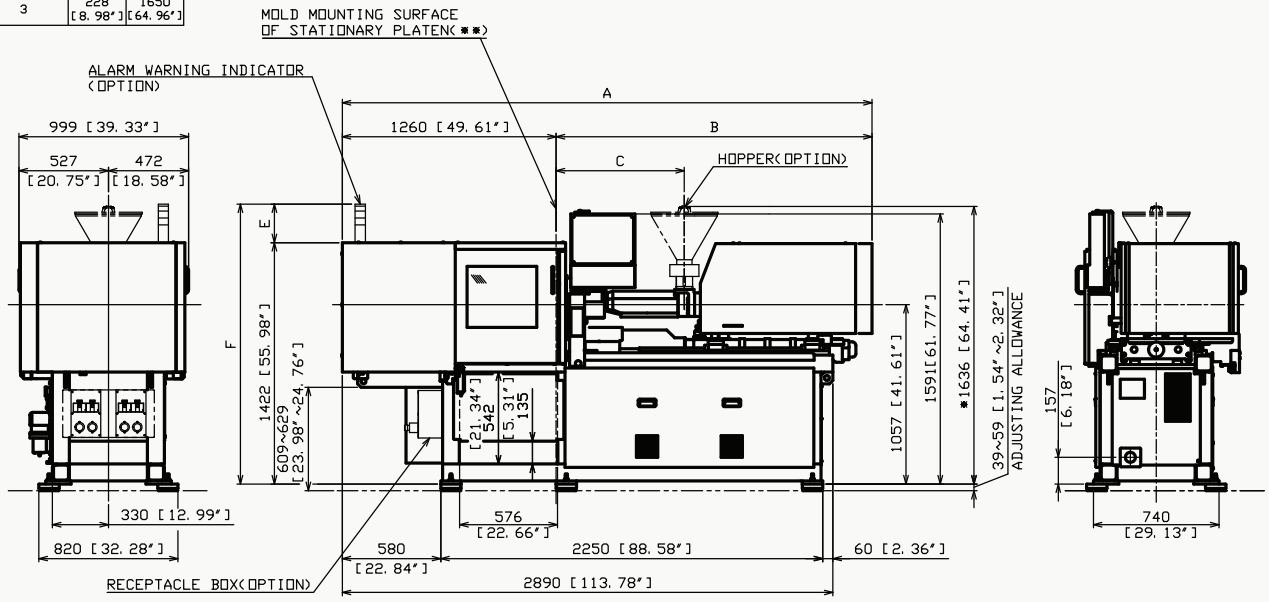
EC30SXII

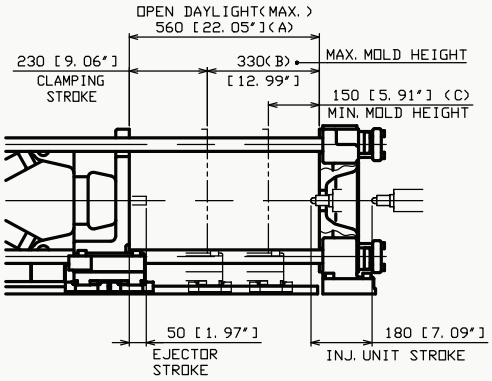
INJECTION UNIT		A	B	C	D
↑0.4		2895 [113.98"]	1635 [64.37"]	625 [24.61"]	842 [33.15"]
↑1	A/Y	3121 [122.87"]	1861 [73.26"]	755 [29.72"]	853 [33.58"]
	YZ	3081 [121.30"]	1821 [71.69"]	715 [28.15"]	

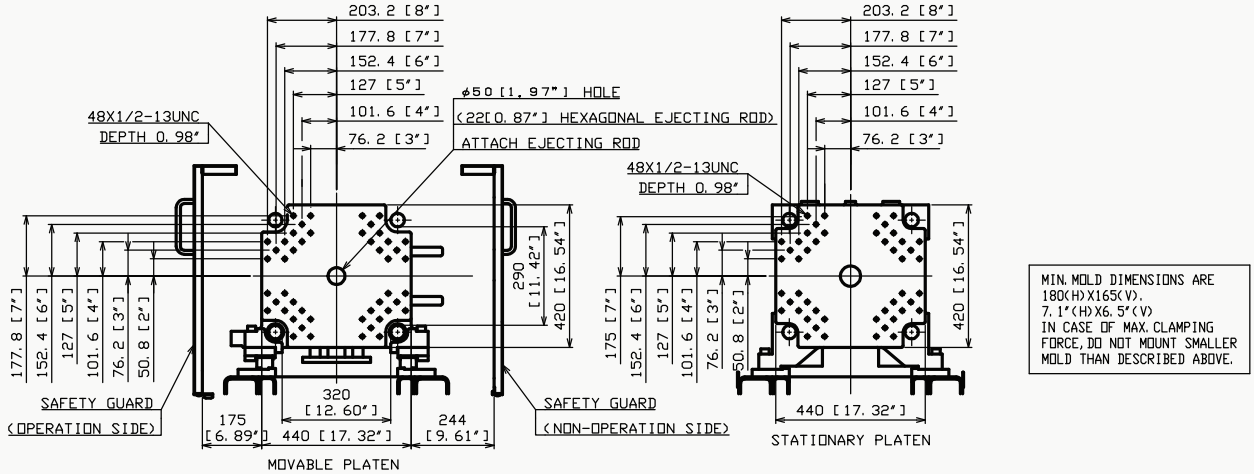
ALARM WARNING INDICATOR (OPTION)		
NUMBER OF LAYERS	E	F
1	146 [5.75"]	1568 [61.73"]
3	228 [8.98"]	1650 [64.96"]

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





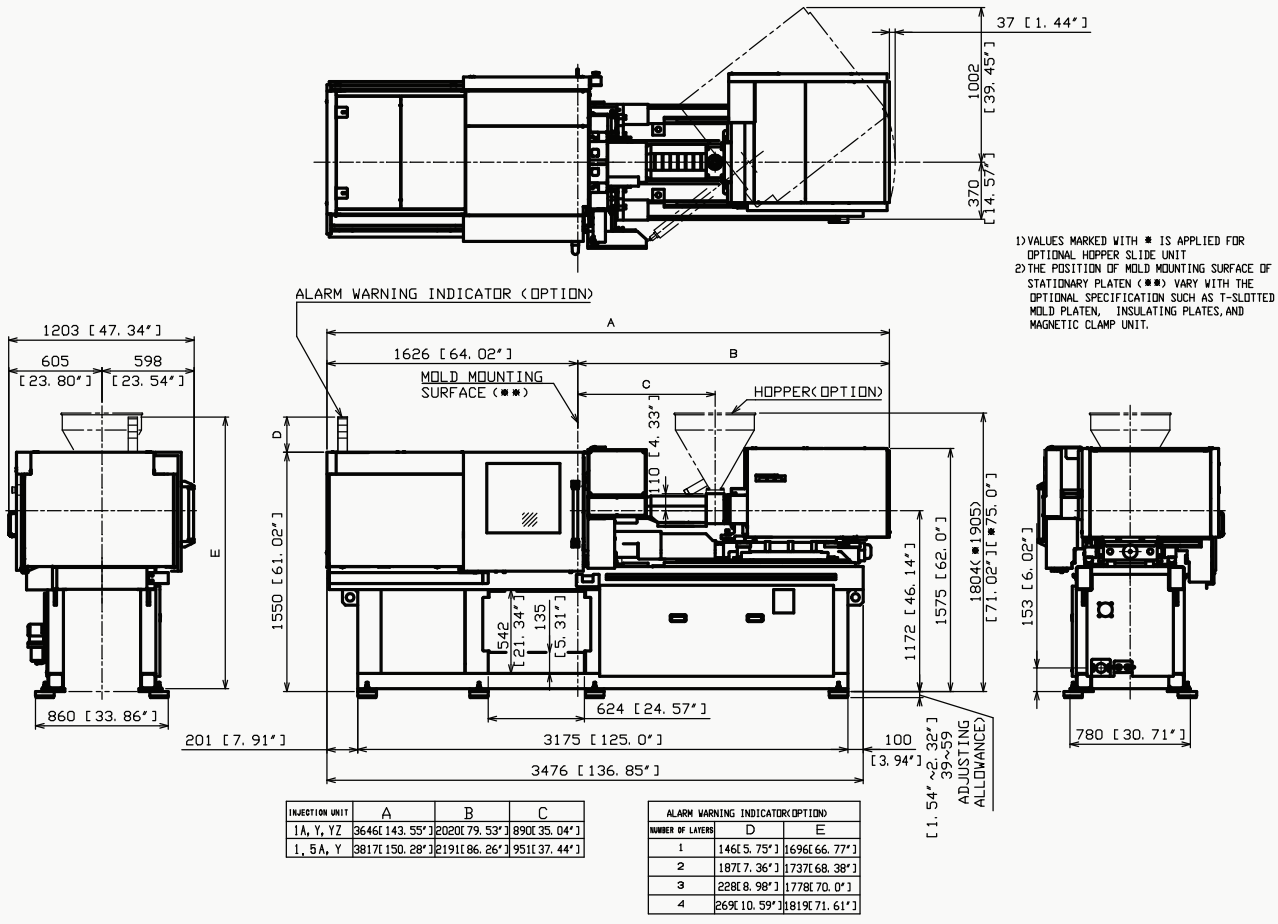




MIN. MOLD DIMENSIONS ARE
180(H)X165(V).
7.1"(H)X6.5"(V)
IN CASE OF MAX. CLAMPING FORCE, DO NOT MOUNT SMALLER MOLD THAN DESCRIBED ABOVE.

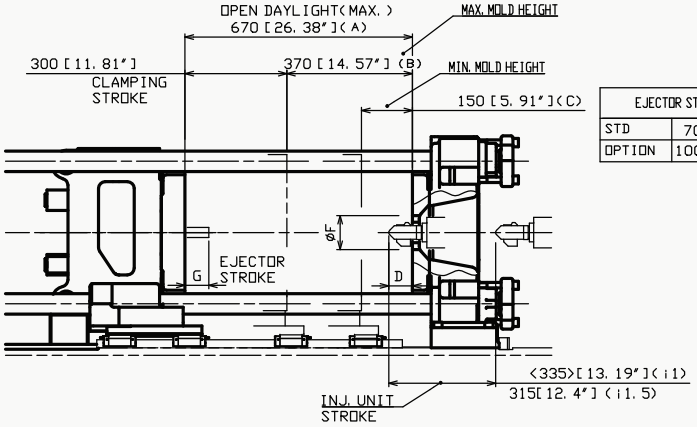
Note: Specifications can change without notice. Contact Toshiba Machine for most current specifications.

EC55SXII

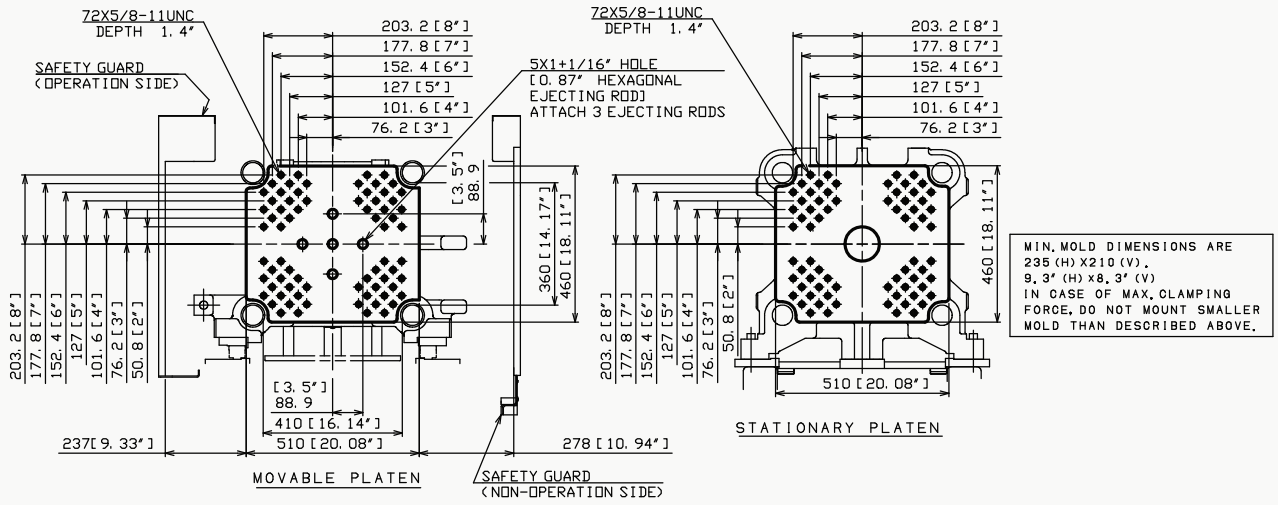


INJECTION UNIT	A	B	C
1A, Y, YZ	3646[143.55"]	2020[79.53"]	890[35.04"]
1, 5A, Y	3817[150.28"]	2191[86.26"]	951[37.44"]

ALARM WARNING INDICATOR(OPTION)		
NUMBER OF LAYERS	D	E
1	146[5.75"]	1696[66.77"]
2	187[7.36"]	1737[68.38"]
3	228[8.98"]	1778[70.0"]
4	269[10.59"]	1819[71.61"]

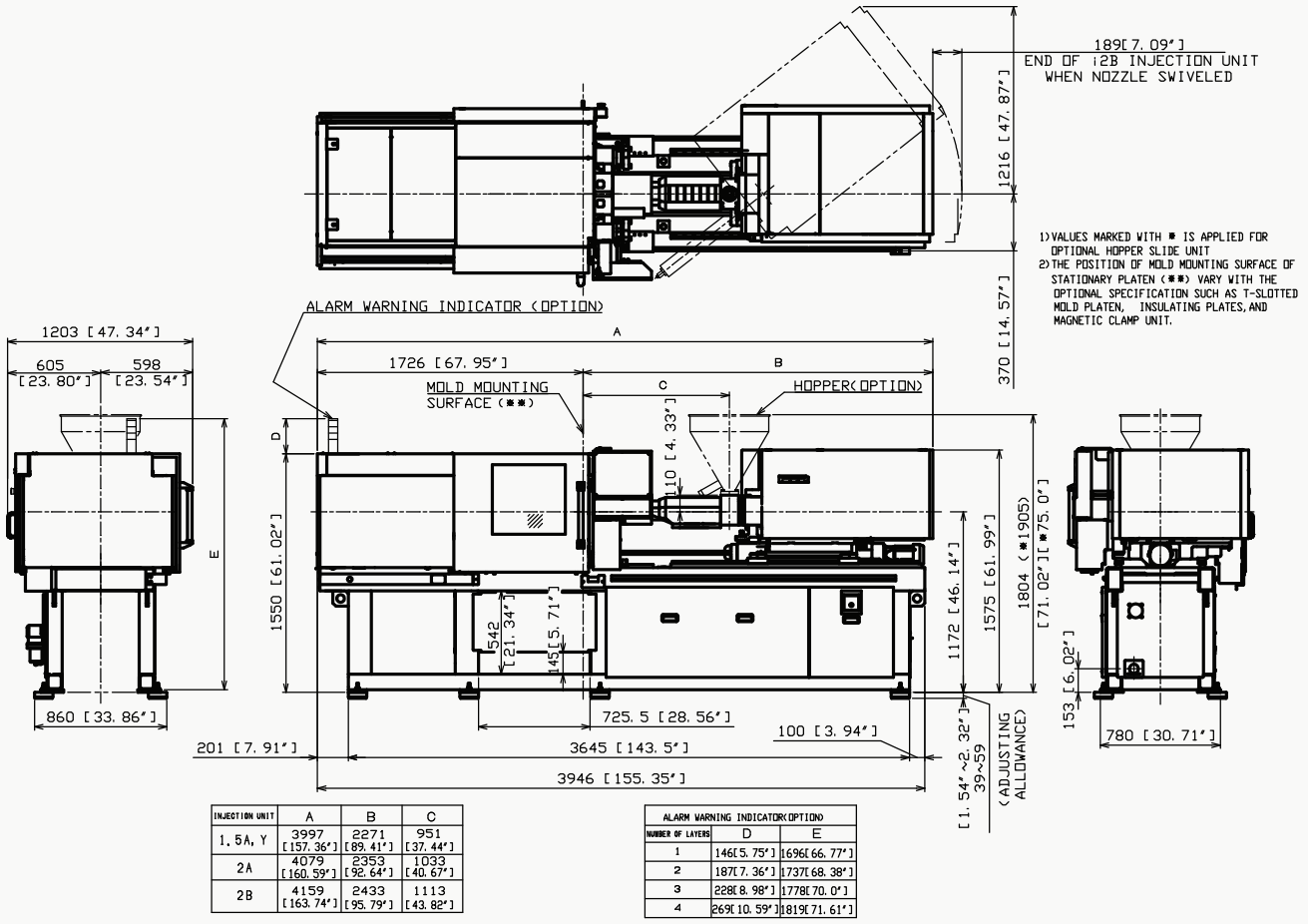


EJECTOR STROKE (G)	
STD	70 [2.76"]
OPTION	100 [3.94"]



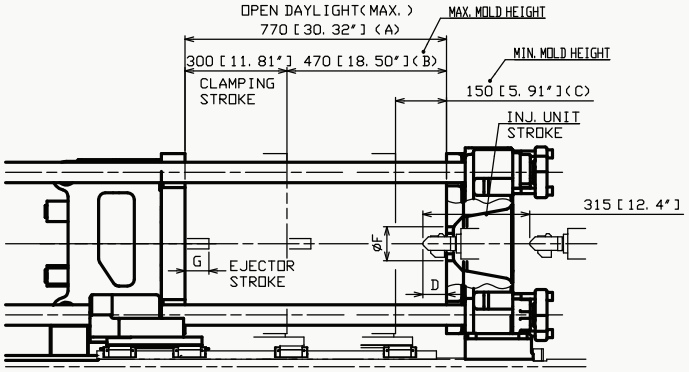
Note: Specifications can change without notice. Contact Toshiba Machine for most current specifications.

EC85SXII

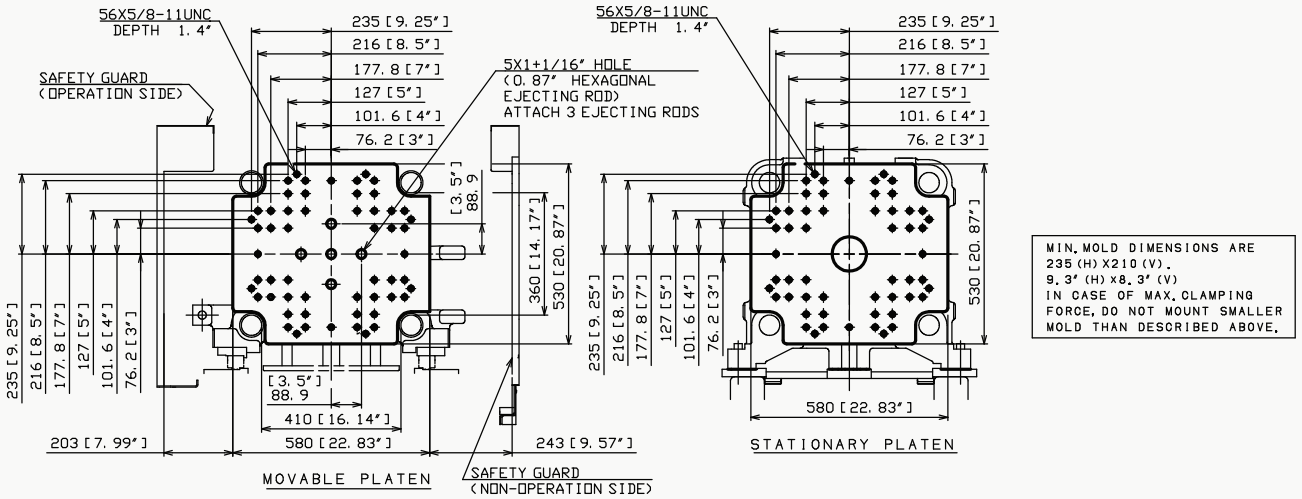


INJECTION UNIT	A	B	C
1.5A, Y	3997 [157.36"]	2271 [89.41"]	951 [37.44"]
2A	4079 [160.59"]	2353 [92.64"]	1033 [40.67"]
2B	4159 [163.74"]	2433 [95.79"]	1113 [43.82"]

ALARM WARNING INDICATOR(OPTION)		
NUMBER OF LAYERS	D	E
1	146[5.75"]	1696[66.77"]
2	187[7.36"]	1737[68.38"]
3	228[8.98"]	1778[70.0"]
4	269[10.59"]	1819[71.61"]



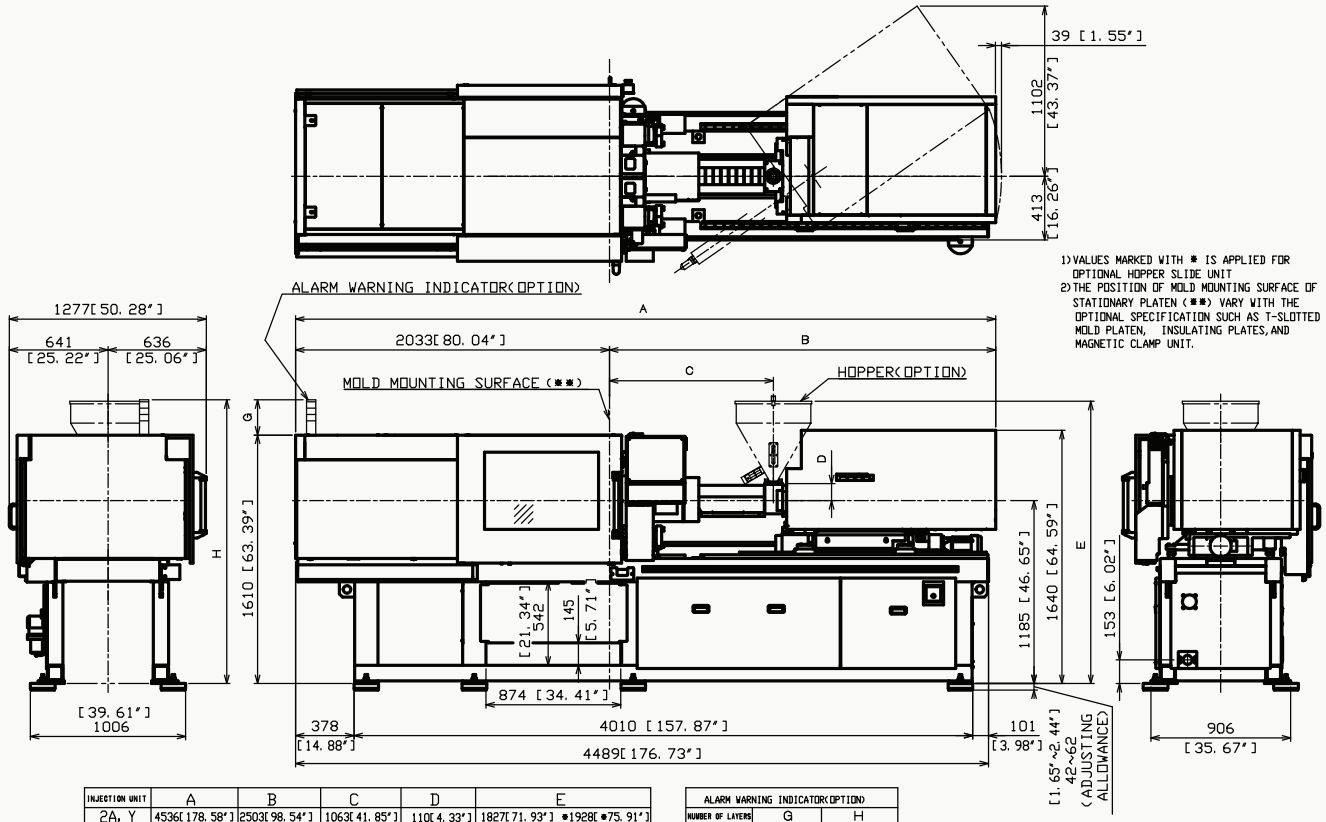
EJECTOR STROKE (G)	
STD	70 [2.76"]
OPTION	100 [3.94"]



MIN. MOLD DIMENSIONS ARE
235 (H) X210 (V),
9.3" (H) X8.3" (V)
IN CASE OF MAX. CLAMPING FORCE, DO NOT MOUNT SMALLER MOLD THAN DESCRIBED ABOVE.

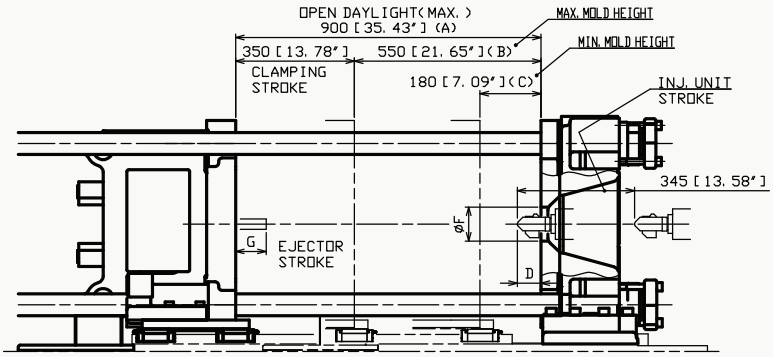
Note: Specifications can change without notice. Contact Toshiba Machine for most current specifications.

EC110SXII

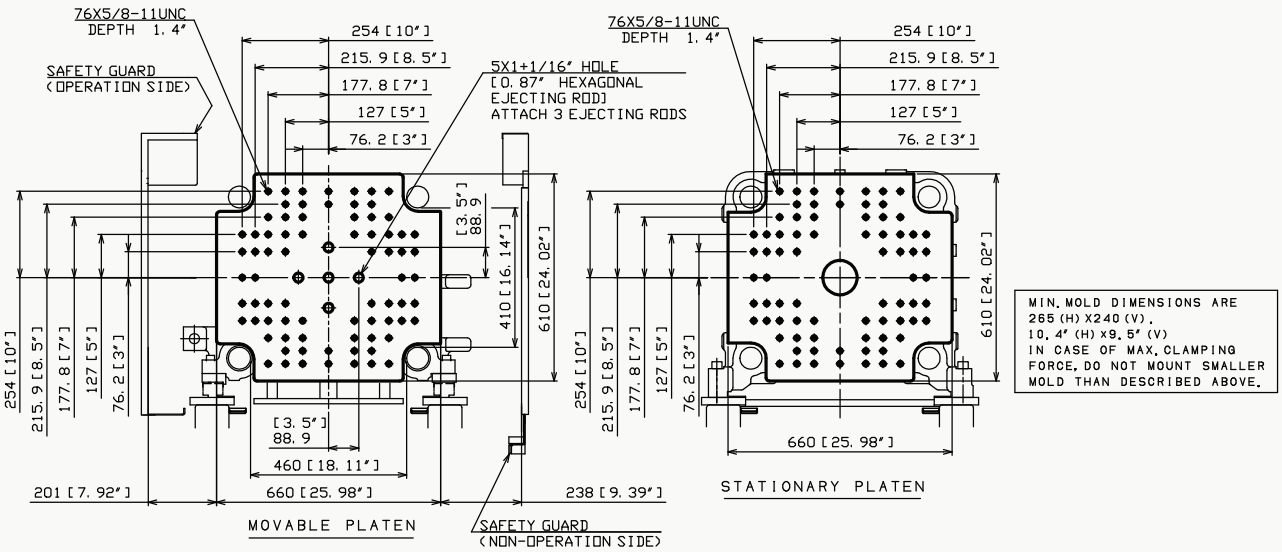


INJECTION UNIT	A	B	C	D	E
2A, Y	4536[178.58"]	2503[98.54"]	1063[41.85"]	110[4.33"]	1827[71.93"] *1928[*75.91"]
2B	4616[181.73"]	2583[101.69"]	1143[45.0"]	110[4.33"]	1827[71.93"] *1928[*75.91"]
4A, Y	4797[188.86"]	2764[108.82"]	1249[49.17"]	100[3.94"]	1817[71.54"] *1918[*75.51"]
4B	4901[192.95"]	2868[112.91"]	1353[53.27"]	100[3.94"]	1817[71.54"] *1918[*75.51"]

ALARM WARNING INDICATOR(OPTION)		
NUMBER OF LAYERS	G	H
1	146[5.75"]	1756[69.14"]
2	187[7.36"]	1797[70.75"]
3	228[8.98"]	1838[72.37"]
4	269[10.59"]	1879[73.98"]

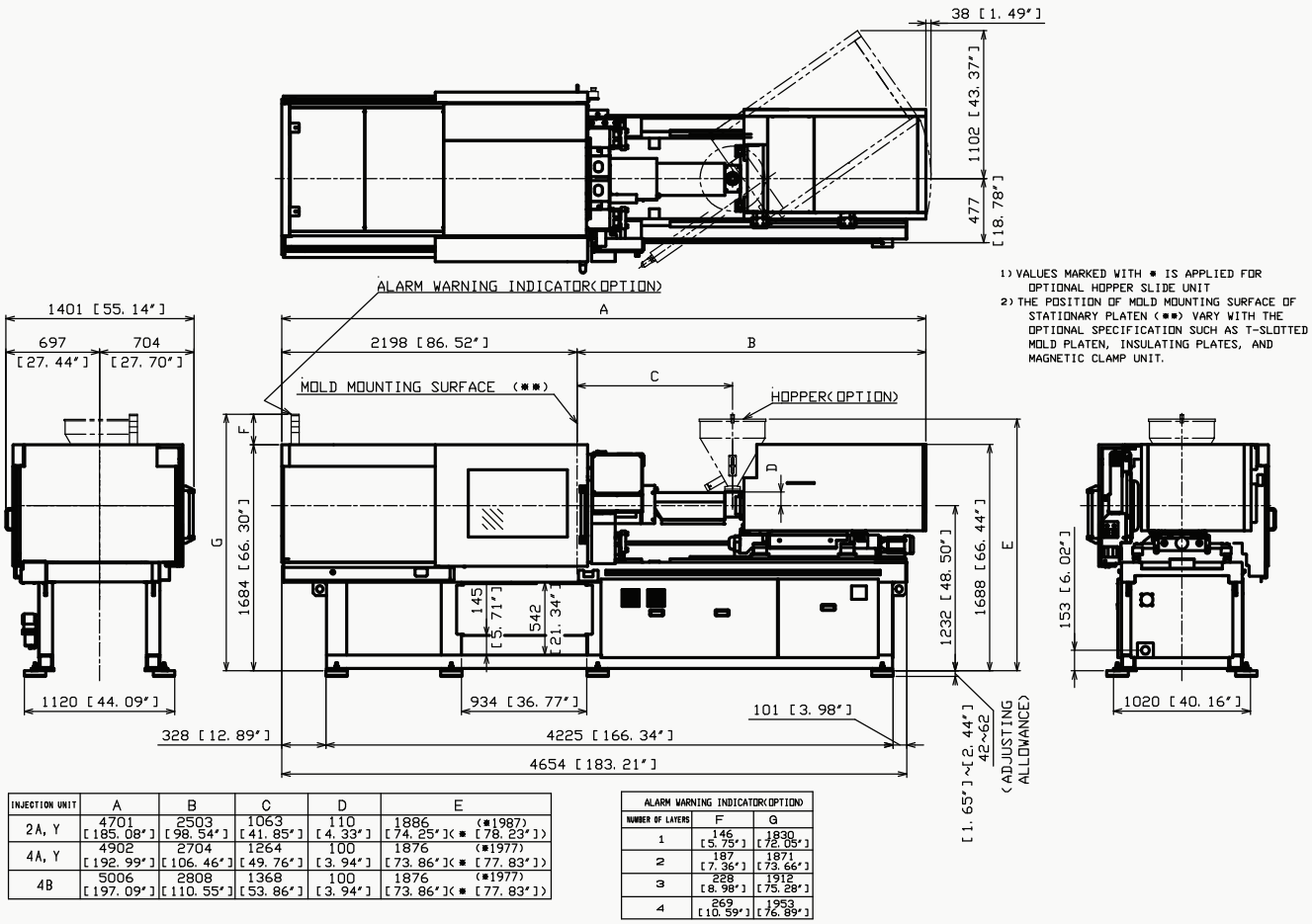


EJECTOR STROKE	
STD	90 [3.54"]
OPTION	120 [4.72"]



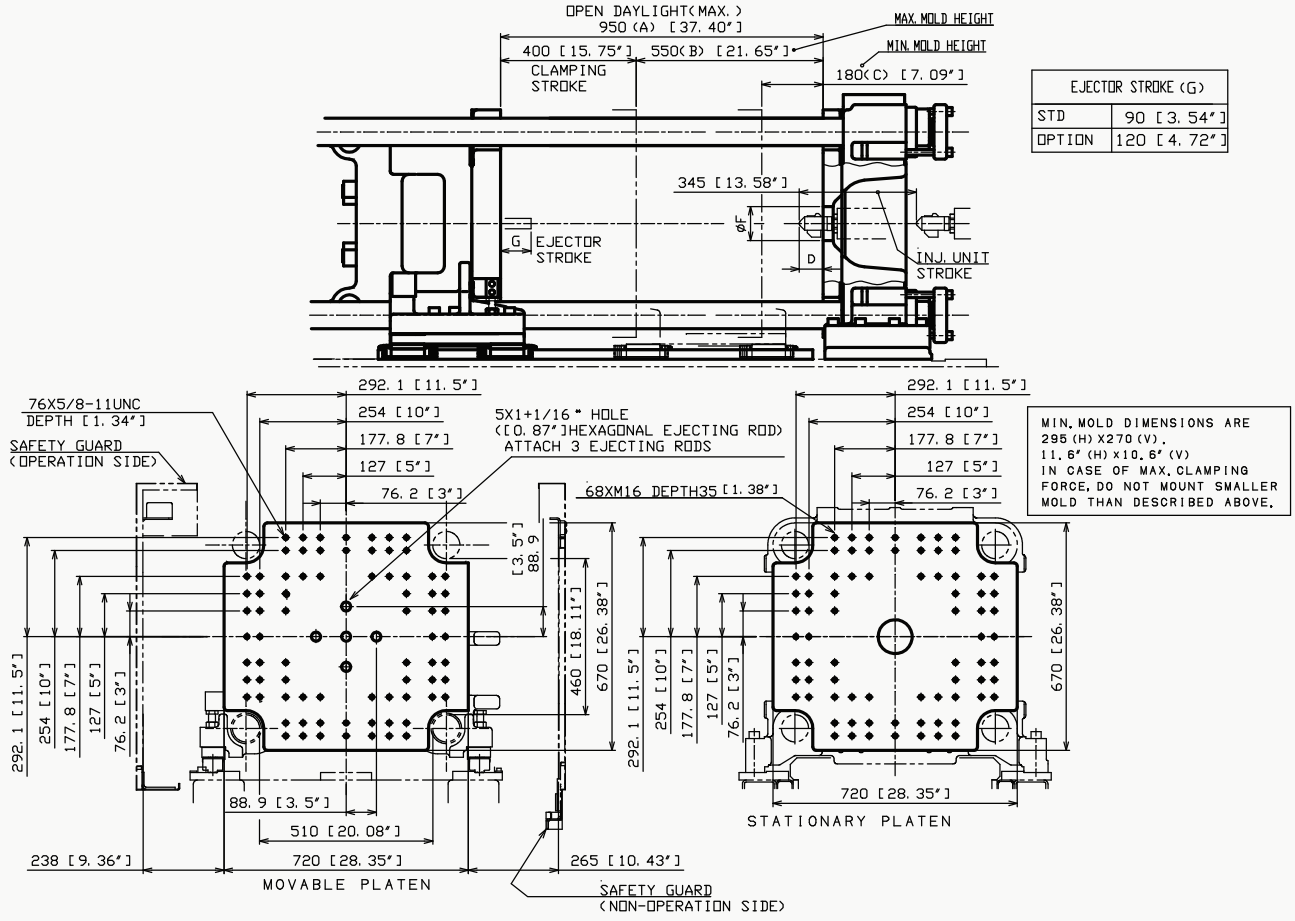
Note: Specifications can change without notice. Contact Toshiba Machine for most current specifications.

EC140SXII



INJECTION UNIT	A	B	C	D	E
2A, Y	4701 [185.08"]	2503 [98.54"]	1063 [41.85"]	110 [4.33"]	1886 [74.25"](*1987) (* [78.23"])
4A, Y	4902 [192.99"]	2704 [106.46"]	1264 [49.76"]	100 [3.94"]	1876 [73.86"](*1977) (* [77.83"])
4B	5006 [197.09"]	2808 [110.55"]	1368 [53.86"]	100 [3.94"]	1876 [73.86"](*1977) (* [77.83"])

ALARM WARNING INDICATOR(OPTION)		
NUMBER OF LAYERS	F	G
1	146 [5.75"]	1830 [72.05"]
2	187 [7.36"]	1871 [73.66"]
3	228 [8.98"]	1912 [75.28"]
4	269 [10.59"]	1953 [76.89"]

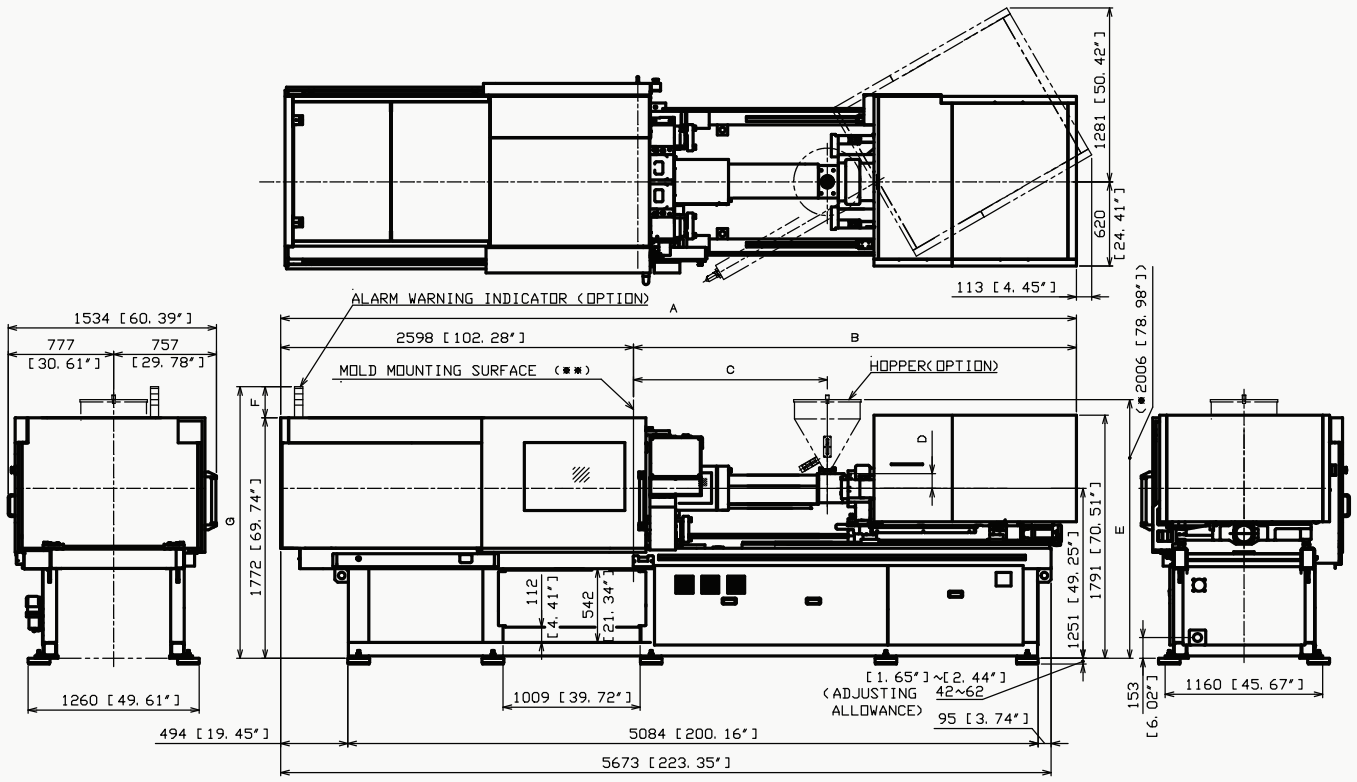


EJECTOR STROKE (G)	
STD	90 [3.54"]
OPTION	120 [4.72"]

MIN. MOLD DIMENSIONS ARE
295 (H) X270 (V),
11.6" (H) x10.6" (V)
IN CASE OF MAX. CLAMPING FORCE, DO NOT MOUNT SMALLER MOLD THAN DESCRIBED ABOVE.

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

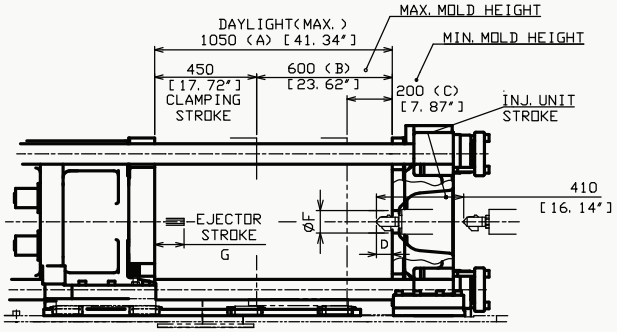
EC200SXII



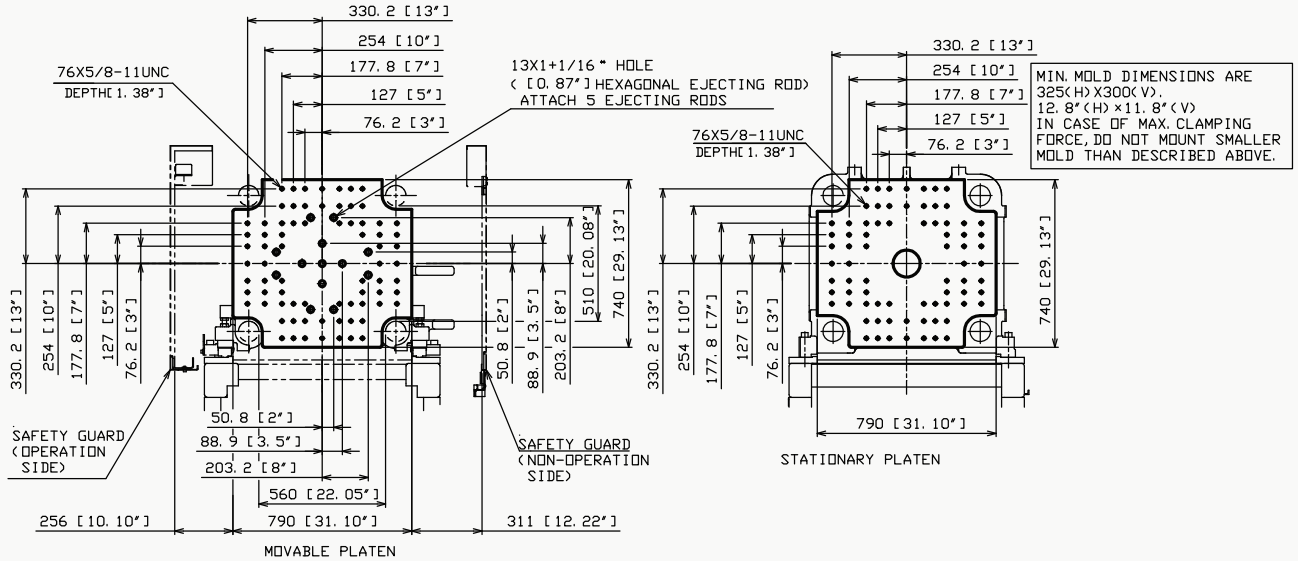
1) VALUES MARKED WITH * IS APPLIED FOR OPTIONAL HOPPER SLIDE UNIT
2) THE POSITION OF MOLD MOUNTING SURFACE(**) VARY WITH THE OPTIONAL SPECIFICATION SUCH AS T-SLOTTED MOLD PLATEN, INSULATING PLATES, AND MAGNETIC CLAMP UNIT.

INJECTION UNIT	A	B	C	D	E
4A, Y	5672 [223.31"]	3074 [121.02"]	1314 [51.32"]	100 [3.94"]	1895 [74.61"]
4B	5776 [227.40"]	3178 [125.12"]	1418 [55.83"]	100 [3.94"]	1895 [74.61"]
6A, Y	5859 [230.67"]	3261 [128.39"]	1428 [56.22"]	110 [4.33"]	1905 [75.00"]
8A, Y	5958 [234.57"]	3360 [132.28"]	1527 [60.12"]	110 [4.33"]	1905 [75.00"]
8B	6062 [238.66"]	3464 [136.38"]	1631 [64.21"]	110 [4.33"]	1905 [75.00"]

ALARM WARNING INDICATOR(OPTION)		
NUMBER OF LAYERS	F	G
1	146 [5.75"]	1918 [75.49"]
2	187 [7.36"]	1959 [77.10"]
3	228 [8.98"]	2000 [78.72"]
4	269 [10.59"]	2041 [80.33"]

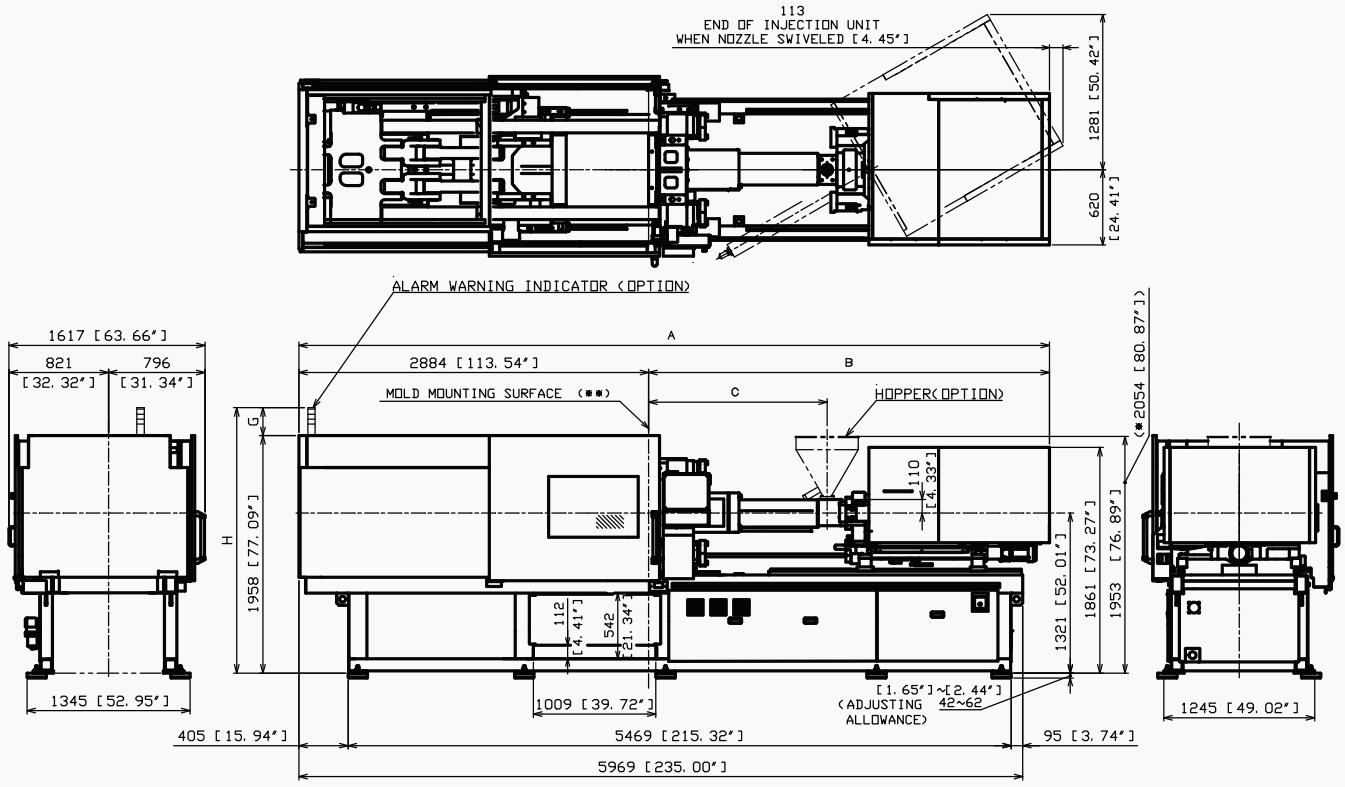


EJECTOR STROKE (G)	
STD	130 [5.12"]
OPTION	180 [7.09"]



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

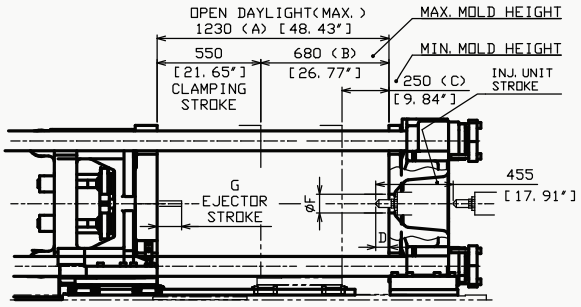
EC250SXII



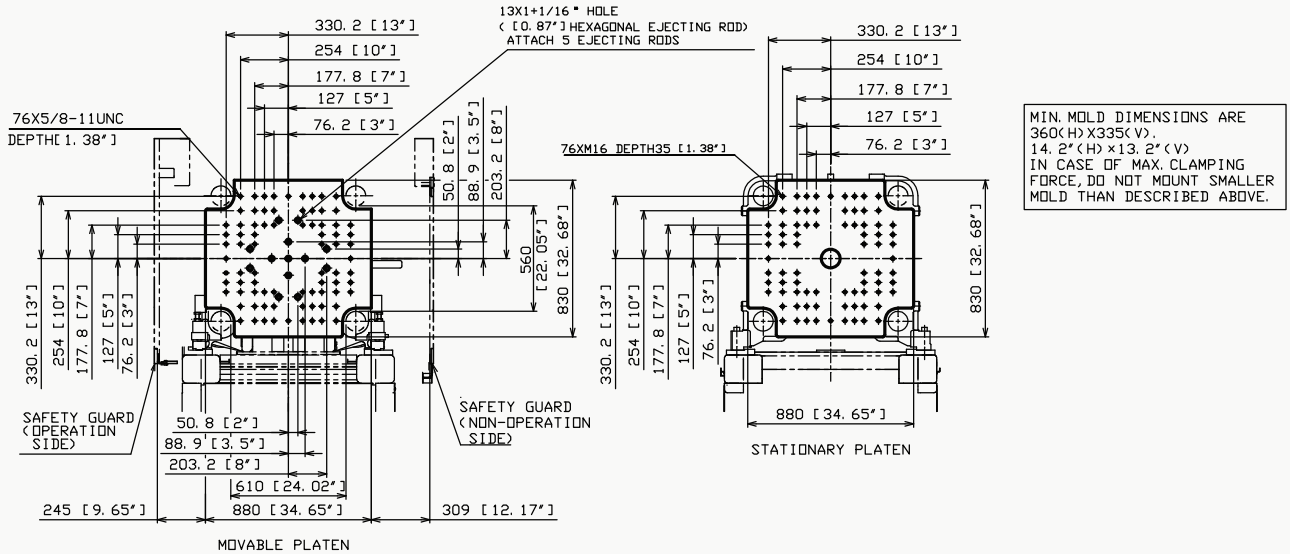
1) VALUES MARKED WITH * IS APPLIED FOR OPTIONAL HOPPER SLIDE UNIT
2) THE POSITION OF MOLD MOUNTING SURFACE(**) VARY WITH THE OPTIONAL SPECIFICATION SUCH AS T-SLOTTED MOLD PLATEN, INSULATING PLATES, AND MAGNETIC CLAMP UNIT.

INJECTION UNIT	A	B	C
4Y	6003 [236.34"]	3119 [122.80"]	1359 [53.50"]
6A, Y	6190 [243.70"]	3306 [130.16"]	1473 [57.99"]
8A, Y	6289 [247.60"]	3405 [134.05"]	1572 [61.89"]
8B	6393 [251.69"]	3509 [138.15"]	1676 [65.98"]

ALARM WARNING INDICATOR(OPTION)		
NUMBER OF LAYERS	F	G
1	146 [5.75"]	2104 [82.84"]
2	187 [7.36"]	2145 [84.45"]
3	228 [8.98"]	2186 [86.07"]
4	269 [10.59"]	2227 [87.68"]



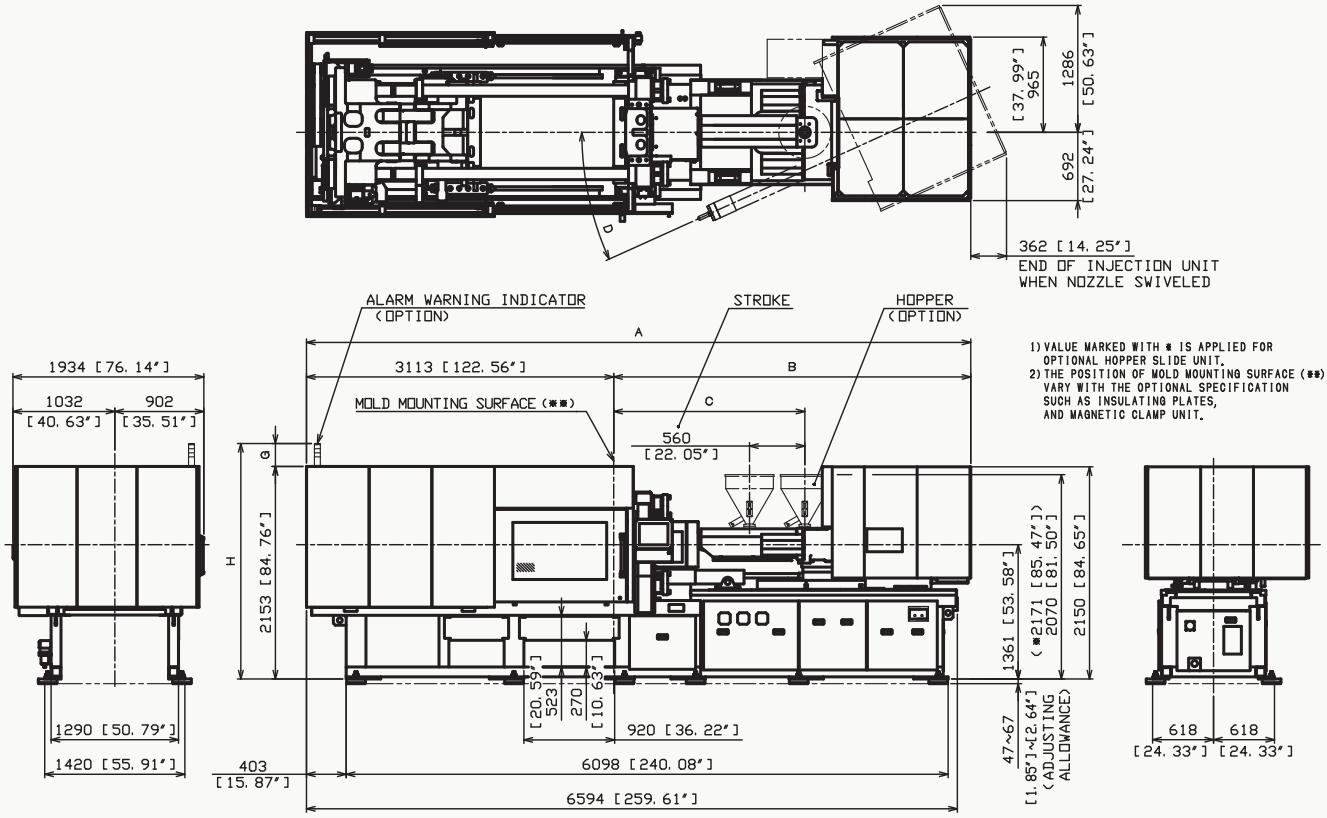
EJECTOR STROKE (G)	
STD	130 [5.12"]
OPTION	180 [7.09"]



MIN. MOLD DIMENSIONS ARE
360(H)X335(V).
14.2"(H)×13.2"(V)
IN CASE OF MAX. CLAMPING FORCE, DO NOT MOUNT SMALLER MOLD THAN DESCRIBED ABOVE.

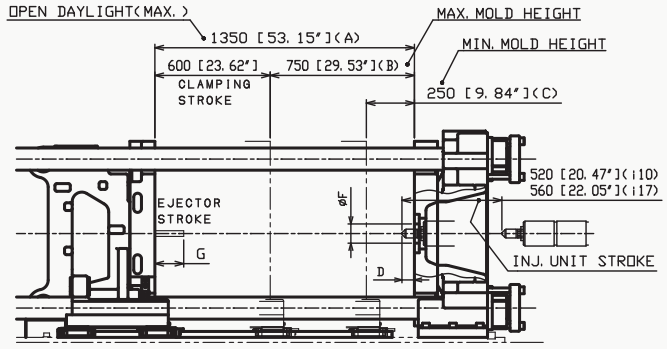
Note: Specifications can change without notice. Contact Toshiba Machine for most current specifications.

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)		
NUMBER OF LAYERS	D	E
1	151 [5.95"]	2304 [90.71"]
3	233 [9.17"]	2386 [93.93"]

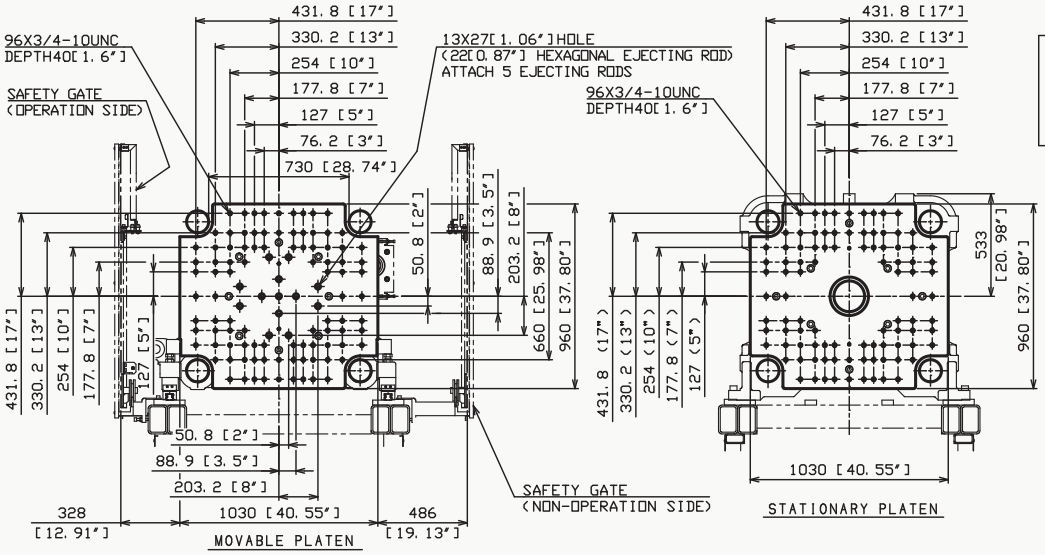


LOCATING RING HOLE DIAMETER (F)	
STD	ø101.6 +0.035 [ø4"]

NOZZLE PROJECTION (D)		
i10	STD (6" BODY)	86 [3.39"]
i17	STD (6" BODY)	48 [1.89"]

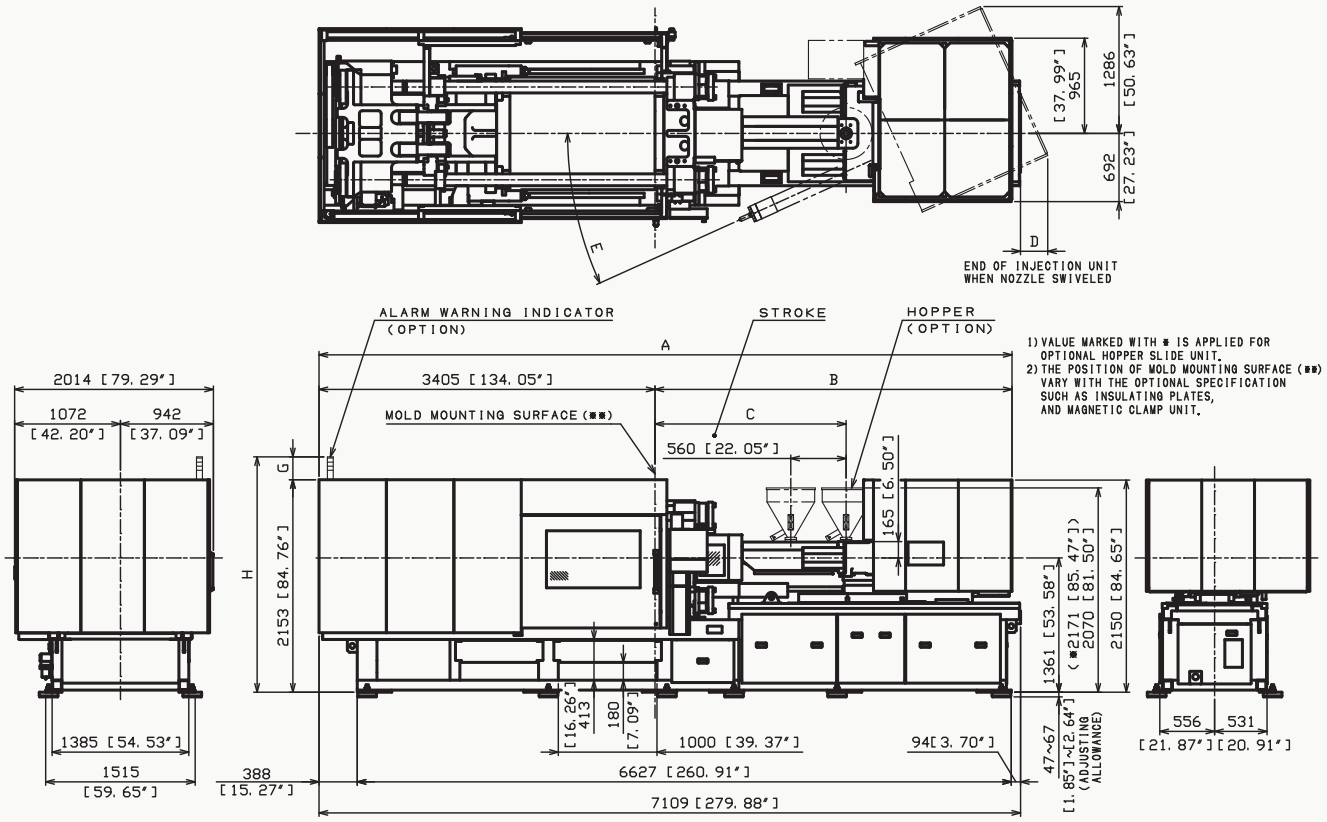
EJECTOR STROKE (G)	
STD	150 [5.9"]

IN CASE OF OPTIONAL INSULATING PLATES			5mm [0.20"]	10mm [0.39"]
OPEN DAYLIGHT (MAX.) (A)			1340 [52.76"]	1330 [52.36"]
MAX. MOLD HEIGHT (B)			740 [29.13"]	730 [28.74"]
MIN. MOLD HEIGHT (C)			240 [9.45"]	230 [9.06"]
NOZZLE PROJECTION (D)	i10	STD (6" BODY)	81 [3.19"]	76 [2.99"]
	i17	STD (6" BODY)	43 [1.69"]	38 [1.5"]



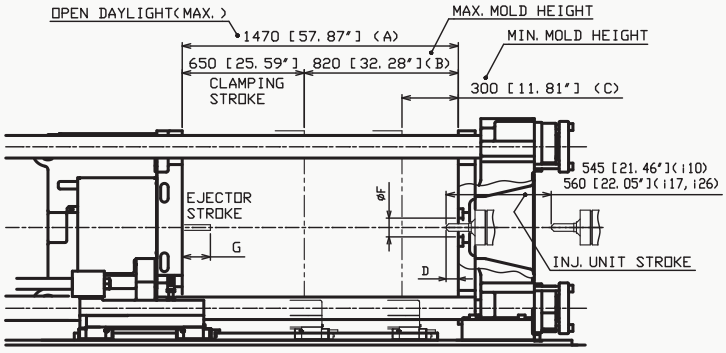
MIN. MOLD DIMENSIONS ARE 425 (H) X390 (V).
(16.7" (H) ×15.4" (V))
IN CASE OF MAX. CLAMPING FORCE, DO NOT MOUNT SMALLER MOLD THAN DESCRIBED ABOVE.

EC390SXII



INJECTION UNIT	A	B	C	D	E
i17AT, Y	7022 [276.45"]	3617 [142.40"]	1936 [76.22"]	276 [10.87"]	24.3°
i17B, BH	7227 [284.52"]	3822 [150.47"]	2141 [84.29"]	483 [19.02"]	24.5°

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

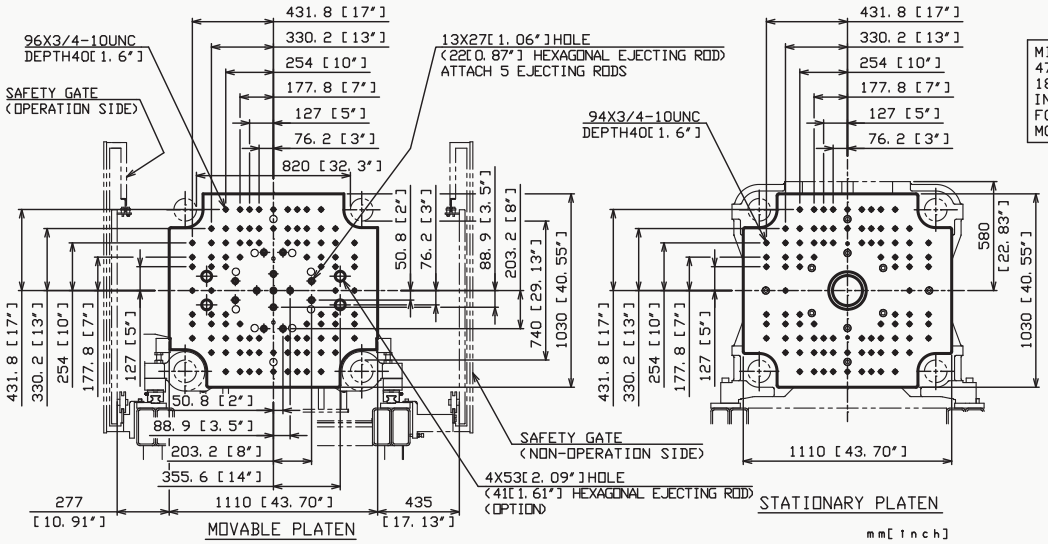


LOCATING RING HOLE DIAMETER (F)	
STD	ϕ101.6 $^{+0.035}_{0}$ [ϕ4"]

EJECTOR STROKE (G)	
STD	150 [5.91"]

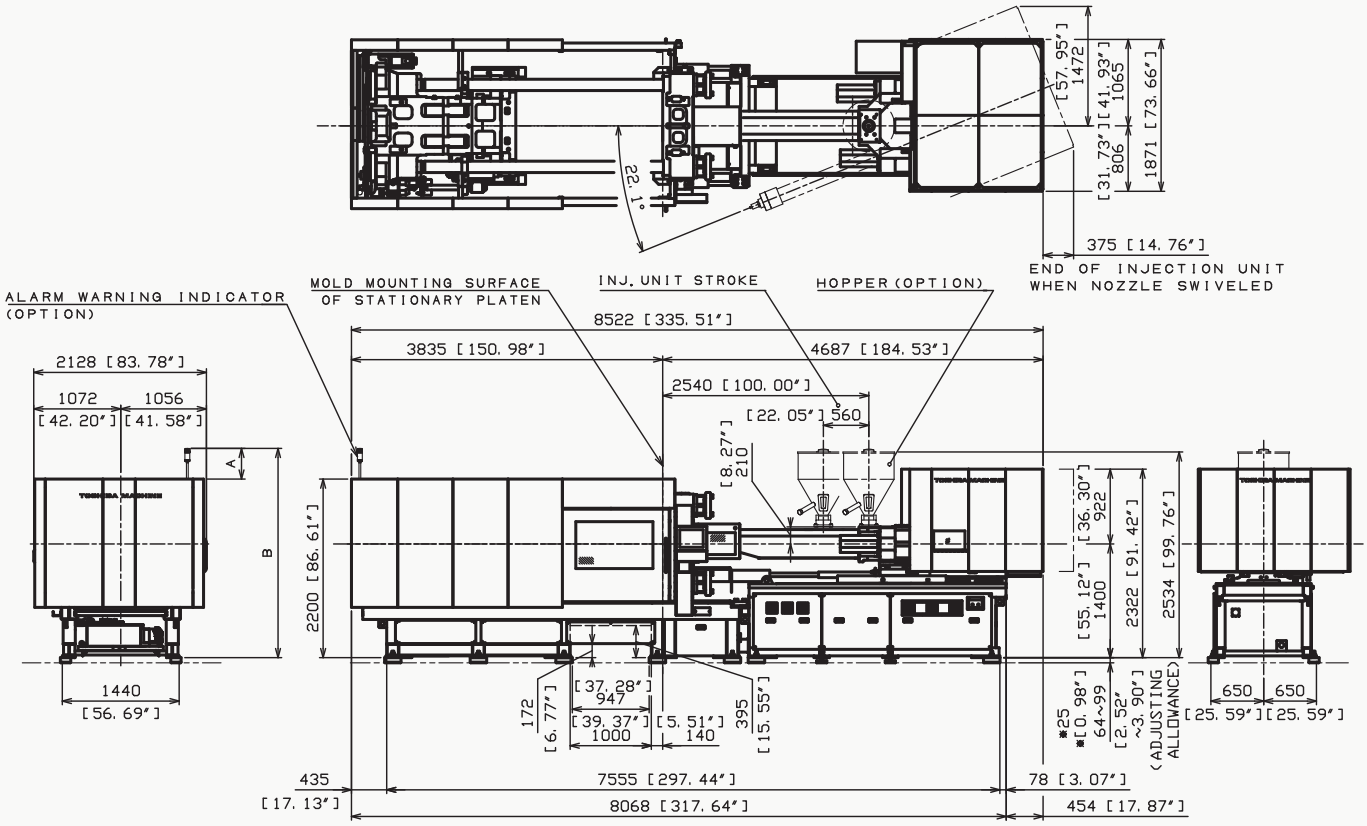
NOZZLE PROJECTION (D)		
i10	STD (6" BODY)	86 [3.39"]
i17	STD (6" BODY)	48 [1.89"]
i26	STD (6" BODY)	55 [2.17"]

IN CASE OF OPTIONAL INSULATING PLATES			5mm [0.20"]	10mm [0.39"]
OPEN DAYLIGHT (MAX.) (A)			1460 [57.48"]	1450 [57.09"]
MAX. MOLD HEIGHT (B)			810 [31.89"]	800 [31.5"]
MIN. MOLD HEIGHT (C)			290 [11.42"]	280 [11.02"]
NOZZLE PROJECTION (D)	i10	STD (6" BODY)	81 [3.19"]	76 [2.99"]
	i17	STD (6" BODY)	43 [1.69"]	38 [1.5"]
	i26	STD (6" BODY)	50 [1.97"]	45 [1.77"]



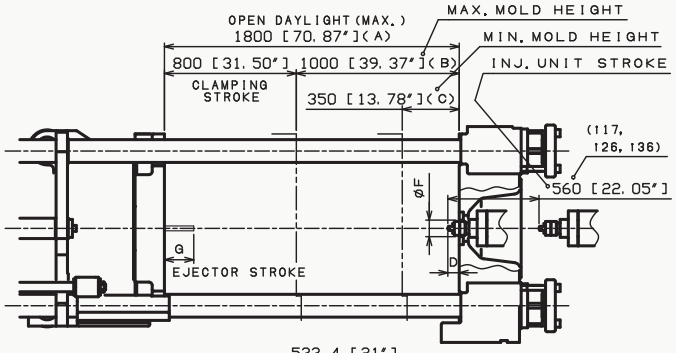
MIN. MOLD DIMENSIONS ARE 470 (H) X430 (V).
18.5" (H) X16.9" (V)
IN CASE OF MAX. CLAMPING FORCE, DO NOT MOUNT SMALLER MOLD THAN DESCRIBED ABOVE.

EC500SXII



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.

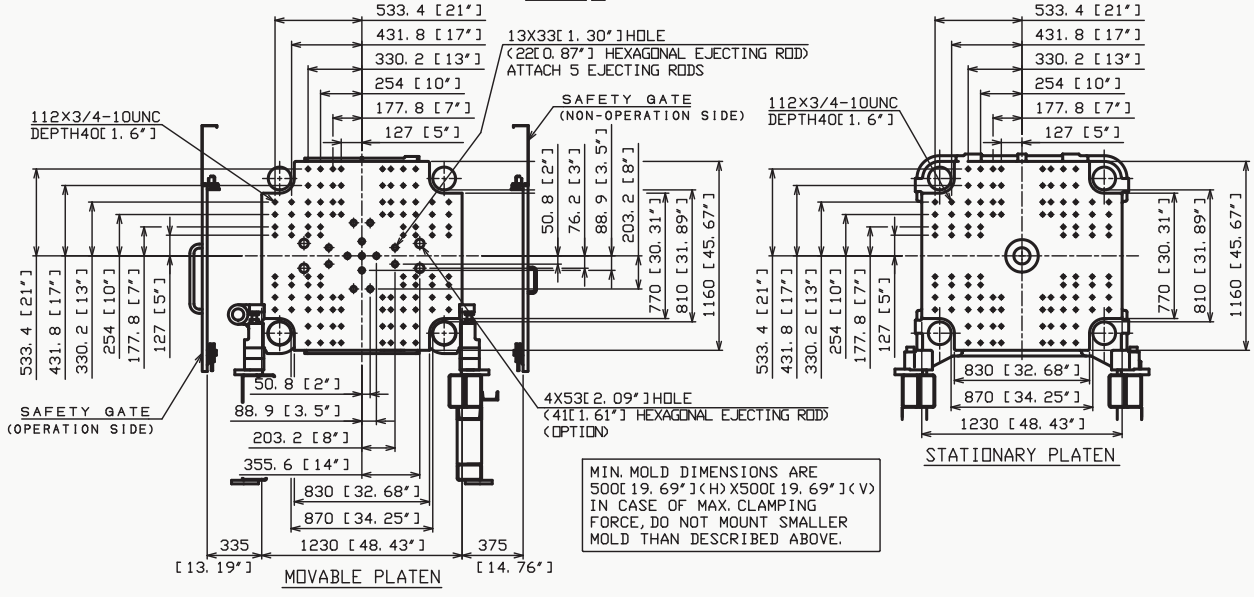


LOCATING RING HOLE DIAMETER (F)	
STD	ø101.6 +0.035 0 [ø4"]

EJECTOR STROKE (G)	
STD	180 [7.09"]

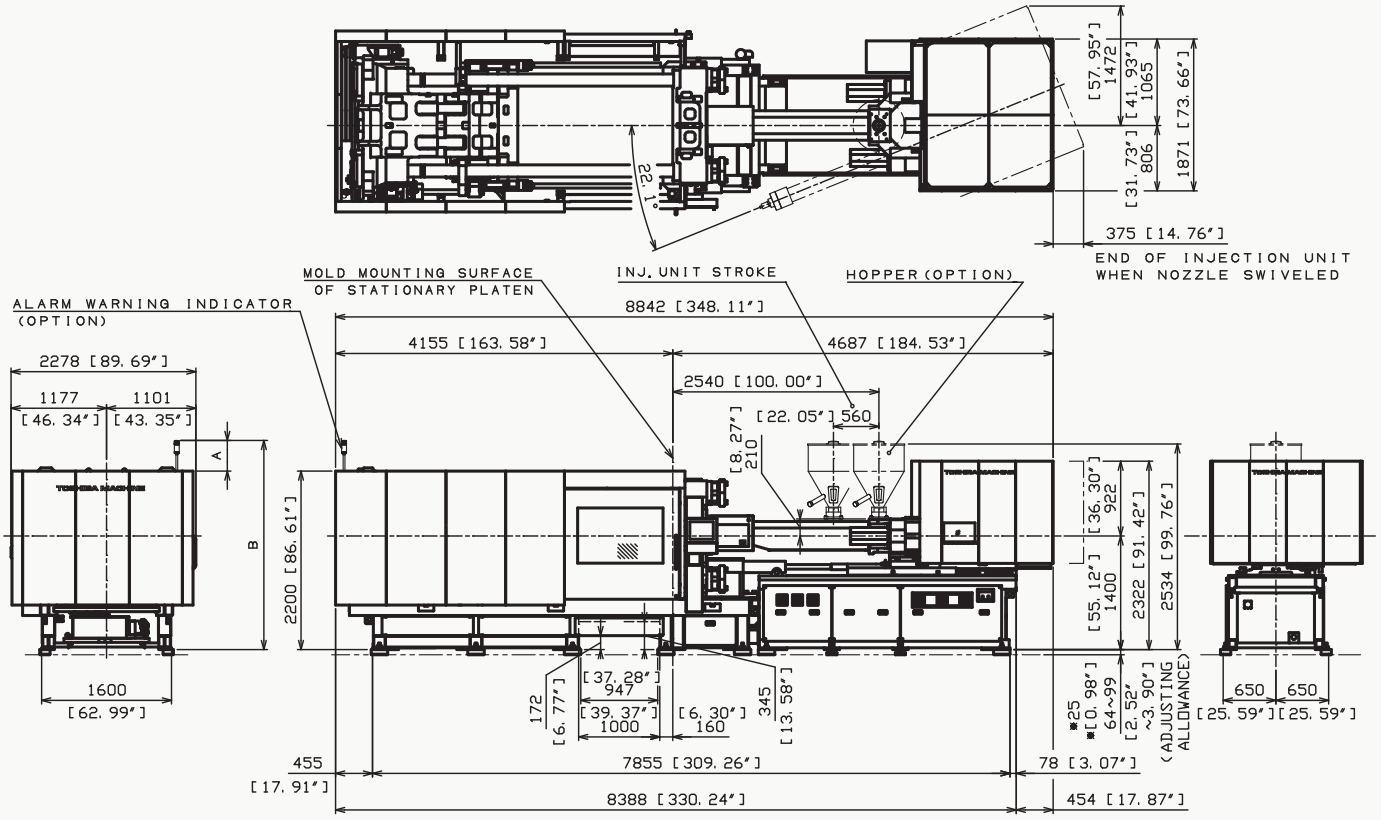
NOZZLE PROJECTION (D)		
i17 / i26 / i36	STD (6" BODY)	65 [2.56"]

IN CASE OF OPTIONAL INSULATING PLATES		5mm [0.20"]	10mm [0.39"]
OPEN DAYLIGHT (MAX.) (A)		1790 [70.47"]	1780 [70.08"]
MAX. MOLD HEIGHT (B)		990 [38.98"]	980 [38.58"]
MIN. MOLD HEIGHT (C)		340 [13.39"]	330 [12.99"]
NOZZLE PROJECTION (D)	i17 / i26 / i36 STD (6" BODY)	60 [2.36"]	55 [2.17"]



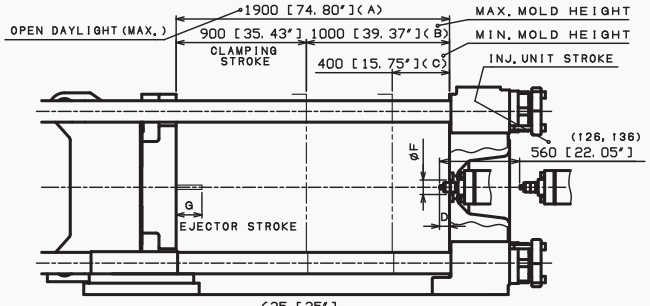
MIN. MOLD DIMENSIONS ARE 500 [19.69"] (H) X500 [19.69"] (V) IN CASE OF MAX. CLAMPING FORCE, DO NOT MOUNT SMALLER MOLD THAN DESCRIBED ABOVE.

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.

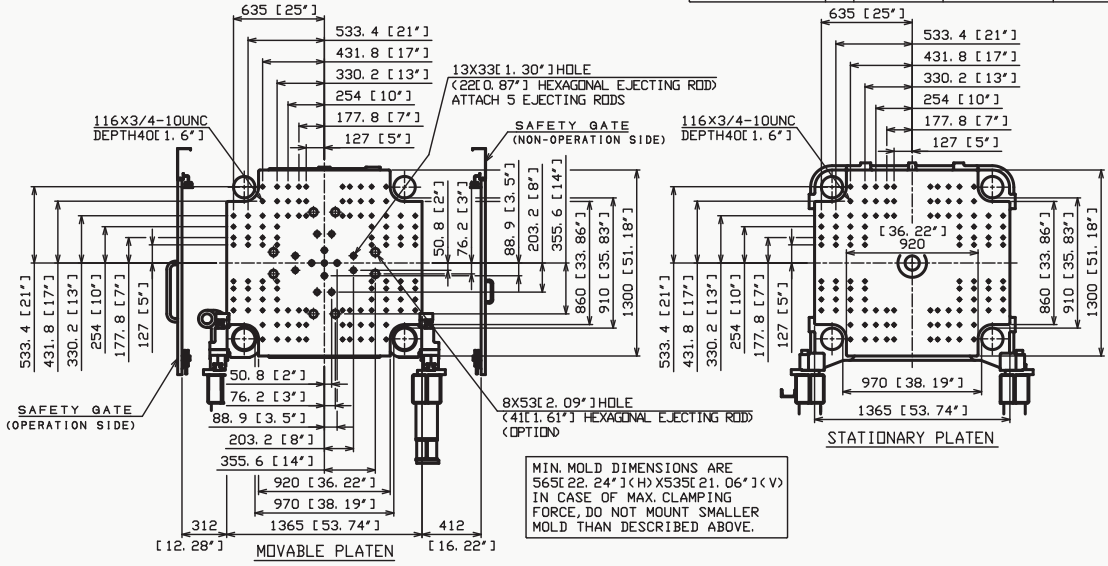


LOCATING RING HOLE DIAMETER (F)	
STD	ø101.6 +0.035 −0 [ø4"]

EJECTOR STROKE (G)	
STD	180 [7.09"]

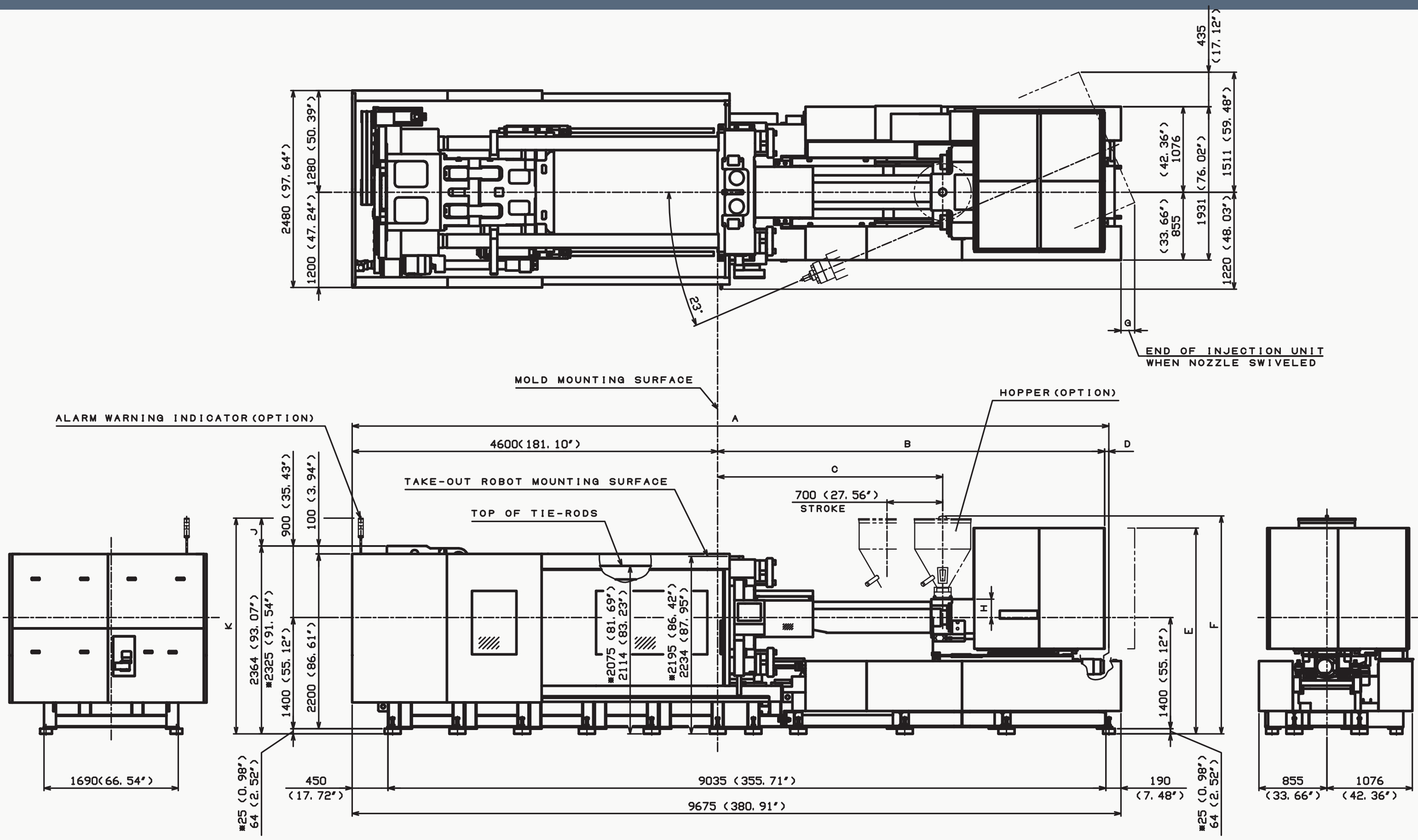
NOZZLE PROJECTION (D)			
i26	STD (6" BODY)	65 [2.56"]
i36		

IN CASE OF OPTIONAL INSULATING PLATES		5mm [0.20"]	10mm [0.39"]
OPEN DAYLIGHT (MAX.) (A)		1890 [74.41"]	1880 [74.02"]
MAX. MOLD HEIGHT (B)		990 [38.98"]	980 [38.58"]
MIN. MOLD HEIGHT (C)		390 [15.35"]	380 [14.96"]
NOZZLE PROJECTION (D)	i26 / i36 STD (6" BODY)	60 [2.36"]	55 [2.17"]



MIN. MOLD DIMENSIONS ARE 565[22.24"](H) X535[21.06"](V) IN CASE OF MAX. CLAMPING FORCE, DO NOT MOUNT SMALLER MOLD THAN DESCRIBED ABOVE.

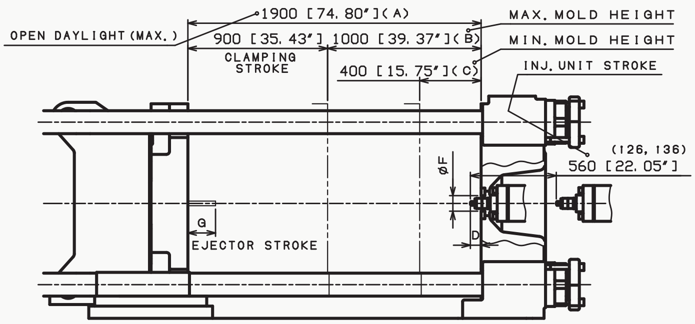
EC720SX



DIMENSION *MARK IS THE FOUNDATION BOLT SPECIFICATION.

射出ユニット INJECTION UNIT	A	B	C	D	E	F	G	H
61A	9470(372.83″)	4870(191.73″)	2832(111.50″)	-11(-0.43″)	2590(101.97″) *2551(100.43″)	⟨2742 (107.95″)⟩ ⟨*2703 (106.42″)⟩	167(6.57″)	230(9.06″)
61AT, B	9670(380.71″)	5070(199.61″)	3032(119.37″)	-11(-0.43″)	2590(101.97″) *2551(100.43″)	⟨2742 (107.95″)⟩ ⟨*2703 (106.42″)⟩	367(14.45″)	230(9.06″)
78A	9948(391.65″)	5302(208.74″)	3059(120.43″)	46(1.81″)	2640(103.94″) *2601(102.40″)	⟨2787 (109.72″)⟩ ⟨*2748 (108.19″)⟩	580(22.83″)	275(10.83″)
78AT, B	10248(403.46″)	5602(220.55″)	3359(132.24″)	46(1.81″)	2640(103.94″) *2601(102.40″)	⟨2787 (109.72″)⟩ ⟨*2748 (108.19″)⟩	880(34.65″)	275(10.83″)

異常警告表示灯（オプション） ALARM WARNING INDICATOR (OPTION)		
段数 NUMBER OF LAYERS	J	K
1	365(14.37″)	2729 (107.44″) *2690 (105.91″)
2	405(15.94″)	2769 (109.02″) *2730 (107.48″)
3	450(17.72″)	2814 (110.79″) *2775 (109.25″)

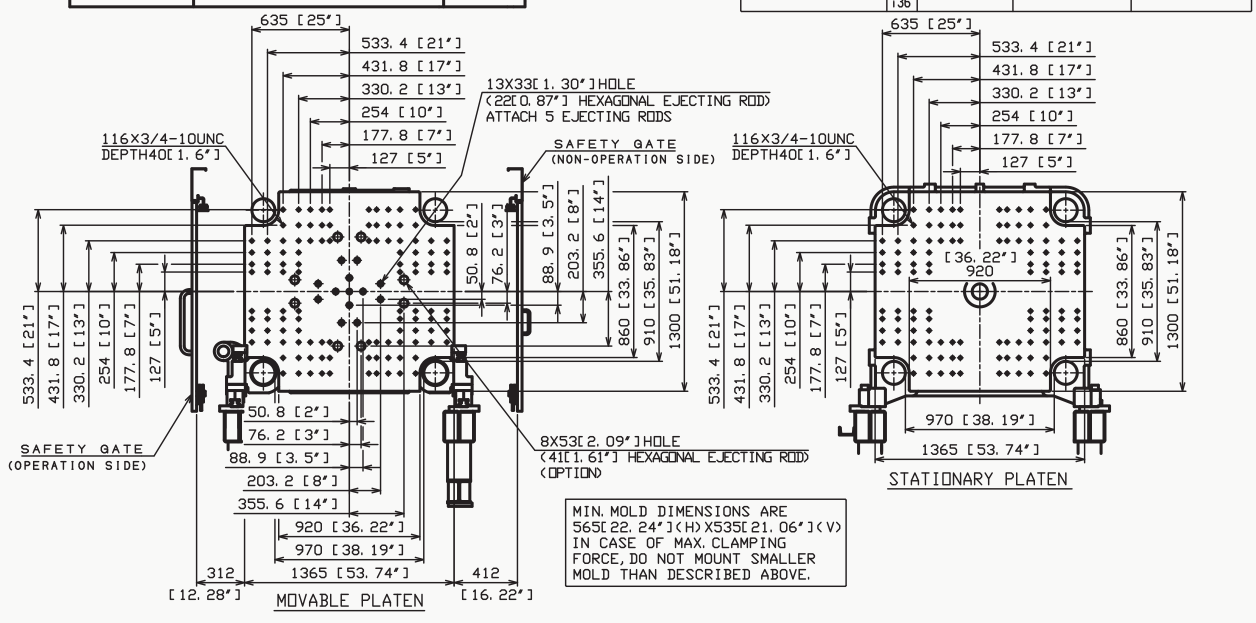


LOCATING RING HOLE DIAMETER (F)	
STD	$\phi 101.6^{+0.035}_{0}$ [Ø4″]

EJECTOR STROKE (G)	
STD	180 [7.09″]

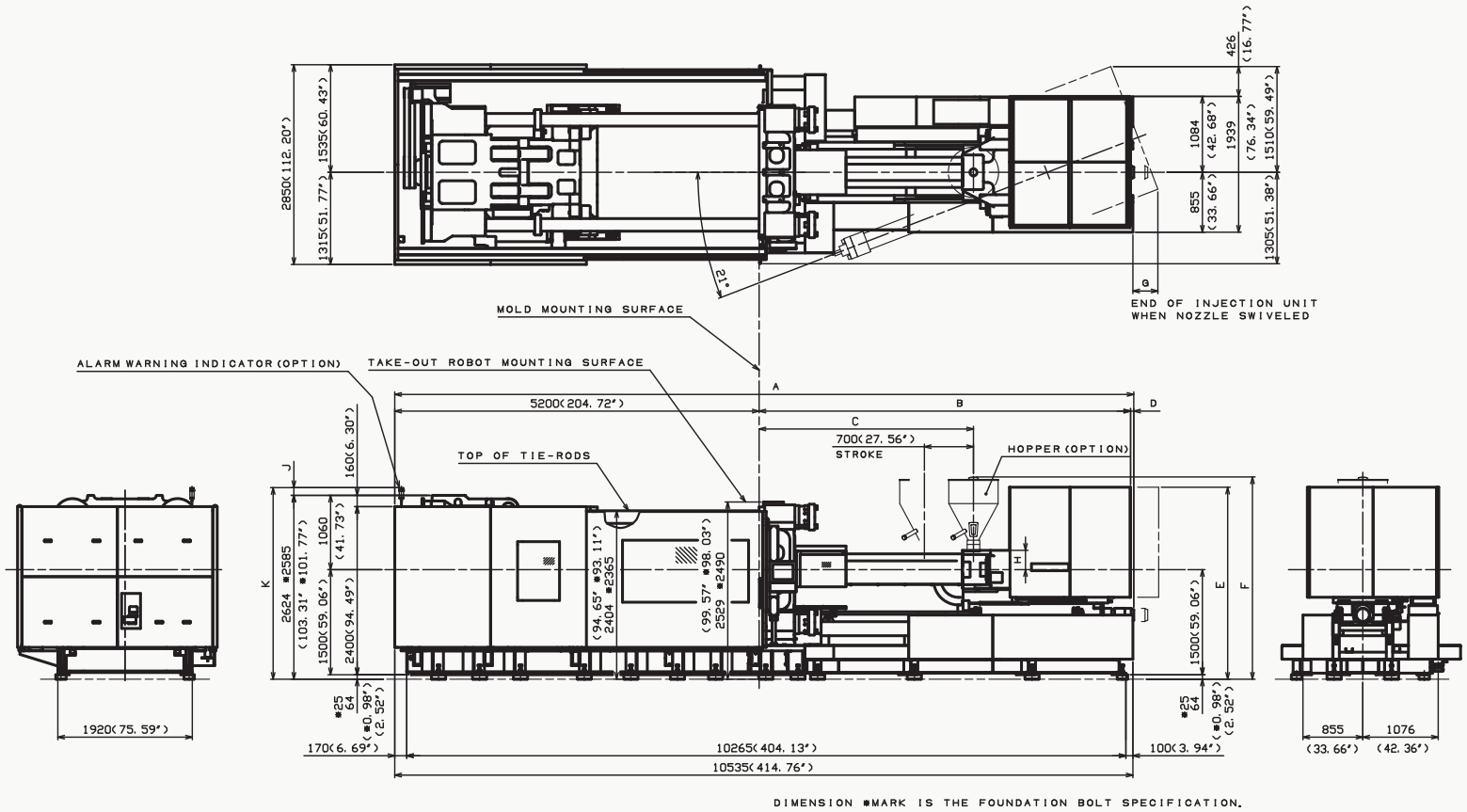
NOZZLE PROJECTION (D)		
i26 / i36	STD (6″ BODY)	65 [2.56″]

IN CASE OF OPTIONAL INSULATING PLATES		5mm [0.20″]	10mm [0.39″]
OPEN DAYLIGHT (MAX.) (A)		1890 [74.41″]	1880 [74.02″]
MAX. MOLD HEIGHT (B)		990 [38.98″]	980 [38.58″]
MIN. MOLD HEIGHT (C)		390 [15.35″]	380 [14.96″]
NOZZLE PROJECTION (D)	i26 / i36 STD (6″ BODY)	60 [2.36″]	55 [2.17″]



MIN. MOLD DIMENSIONS ARE 565[22.24″](H)X535[21.06″](V)
IN CASE OF MAX. CLAMPING FORCE, DO NOT MOUNT SMALLER MOLD THAN DESCRIBED ABOVE.

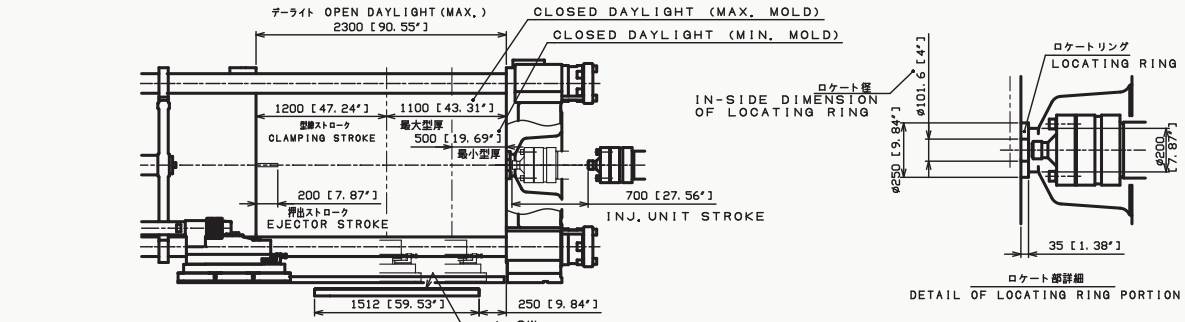
EC950SX

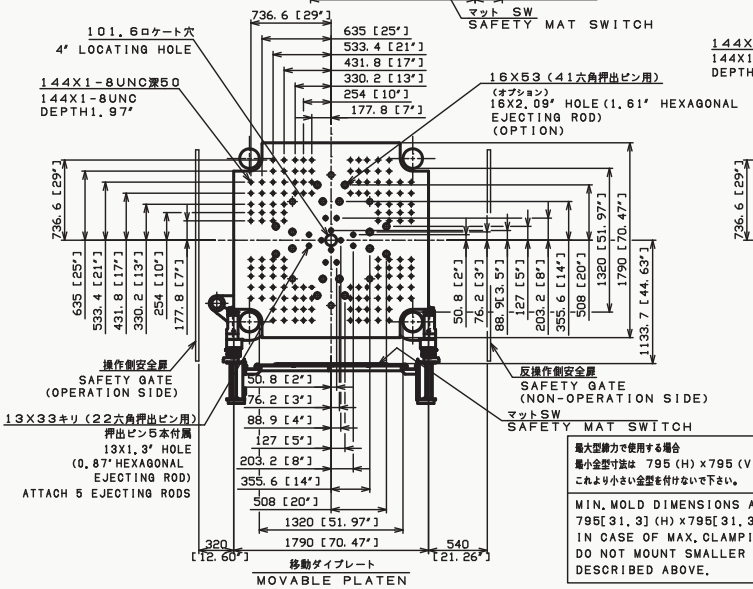


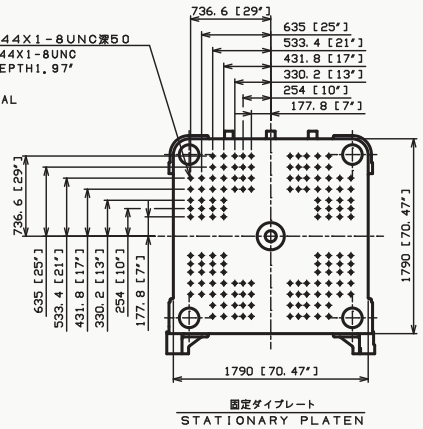
DIMENSION ※MARK IS THE FOUNDATION BOLT SPECIFICATION.

INJECTION UNIT	A	B	C	D	E	F	G	H
61A	10070 (396.46")	4870 (191.73")	2832 (111.50")	−11 (−0.43")	2690 (105.91") ※2651 (※104.37")	(2842) (※2803) (111.89") (※110.35")	−93 (−3.66")	230 (9.06")
61B, AT	10270 (404.33")	5070 (199.61")	3032 (119.37")	−11 (−0.43")	2690 (105.91") ※2651 (※104.37")	(2842) (※2803) (111.89") (※110.35")	107 (4.21")	230 (9.06")
78A	10548 (415.28")	5302 (208.74")	3059 (120.43")	46 (1.81")	2740 (107.87") ※2701 (※106.34")	(2887) (※2848) (113.66") (※112.13")	320 (12.60")	275 (10.83")
78B, AT	10848 (427.09")	5602 (220.55")	3359 (132.24")	46 (1.81")	2740 (107.87") ※2701 (※106.34")	(2887) (※2848) (113.66") (※112.13")	620 (24.41")	275 (10.83")

ALARM WARNING INDICATOR (OPTION)		
NUMBER OF LAYERS	J	K
1	111 (4.37")	2735 (※2696) (107.68") (※106.14")
2	152 (5.98")	2776 (※2737) (109.29") (※107.76")
3	193 (7.60")	2817 (※2778) (110.91") (※109.37")



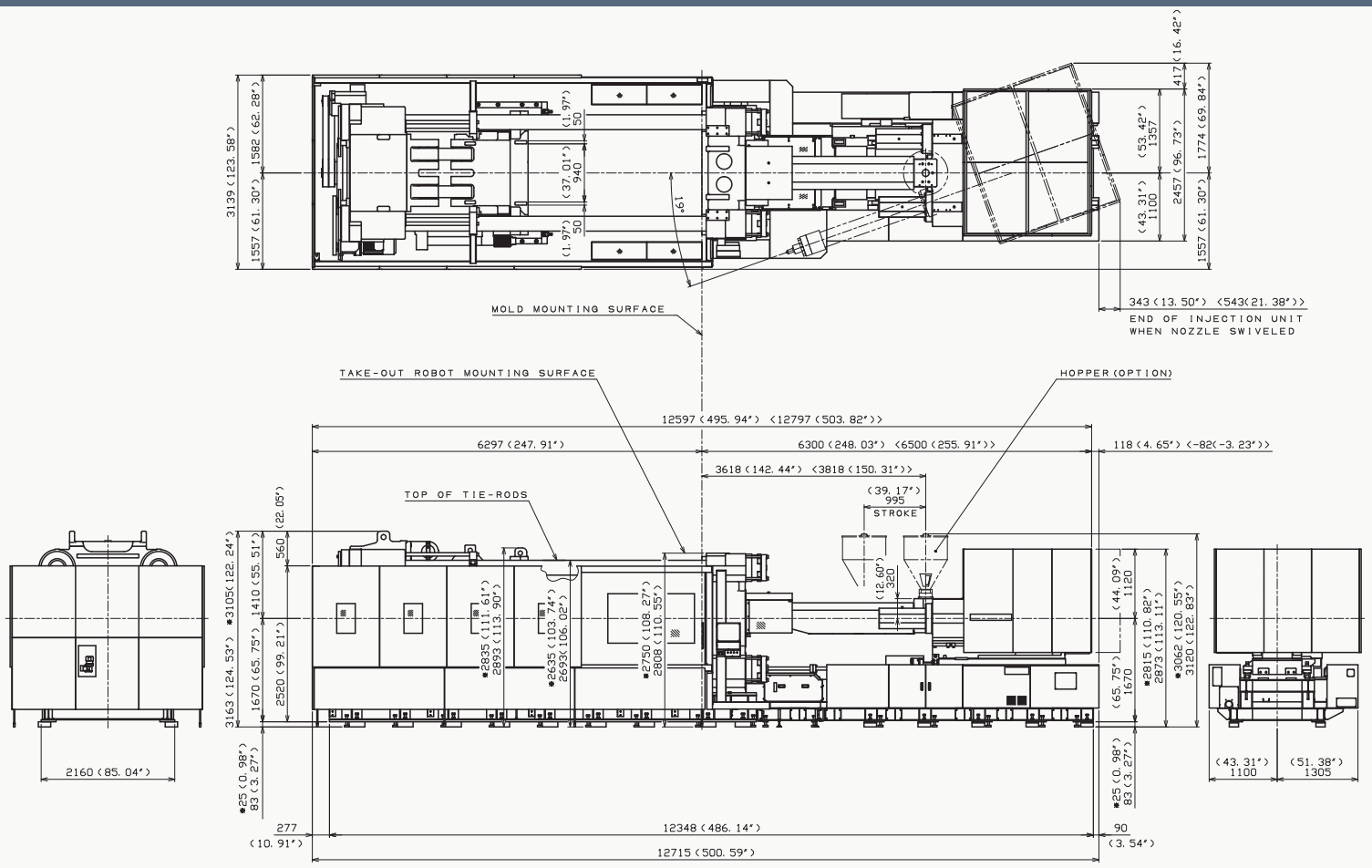




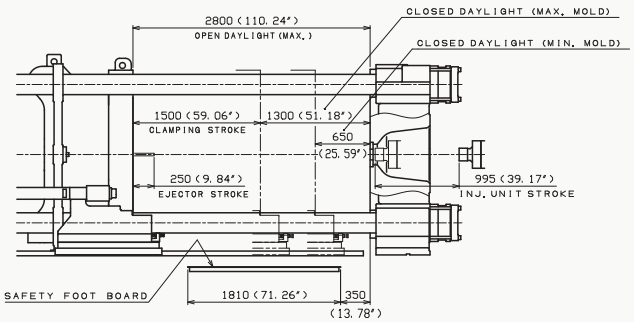
最大型締力で使用する場合
最小金型寸法は 795 (H) x795 (V) です。
これより小さい金型を付けないで下さい。

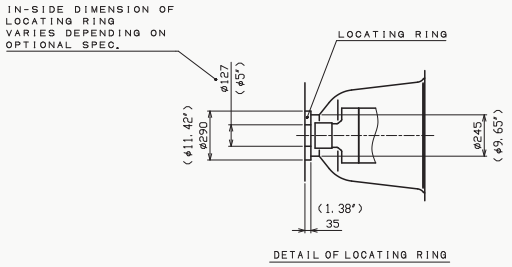
MIN. MOLD DIMENSIONS ARE 795[31.3] (H) x795[31.3] (V). IN CASE OF MAX. CLAMPING FORCE, DO NOT MOUNT SMALLER MOLD THAN DESCRIBED ABOVE.

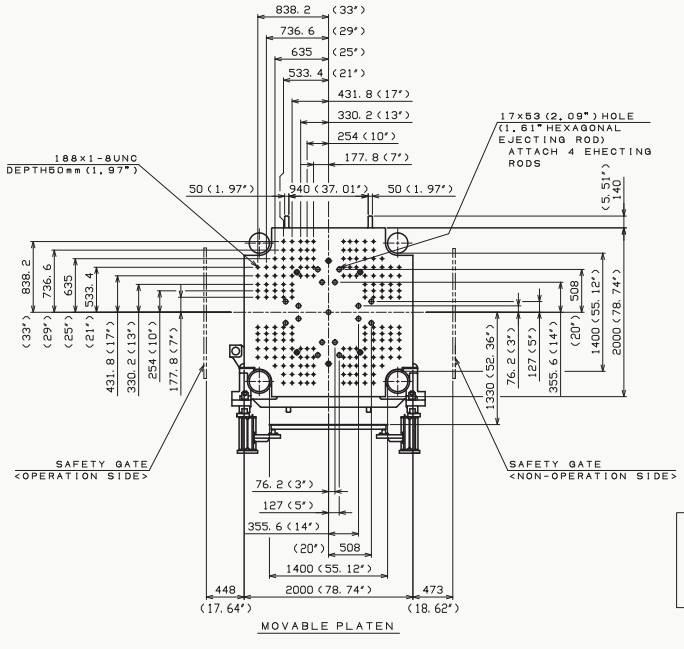
EC1450SX

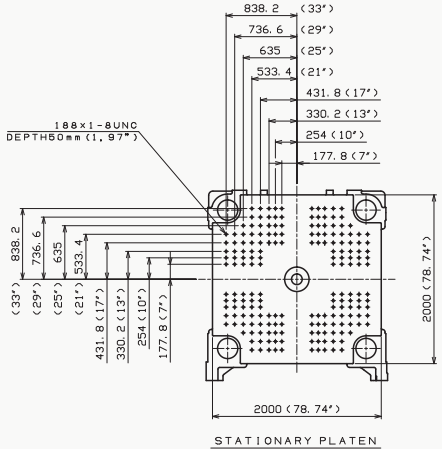


1. DIMENSION IN ( ) IS 1120B INJECTION UNIT.
2. DIMENSION ✱MARK IS THE FOUNDATION BOLT SPECIFICATION.



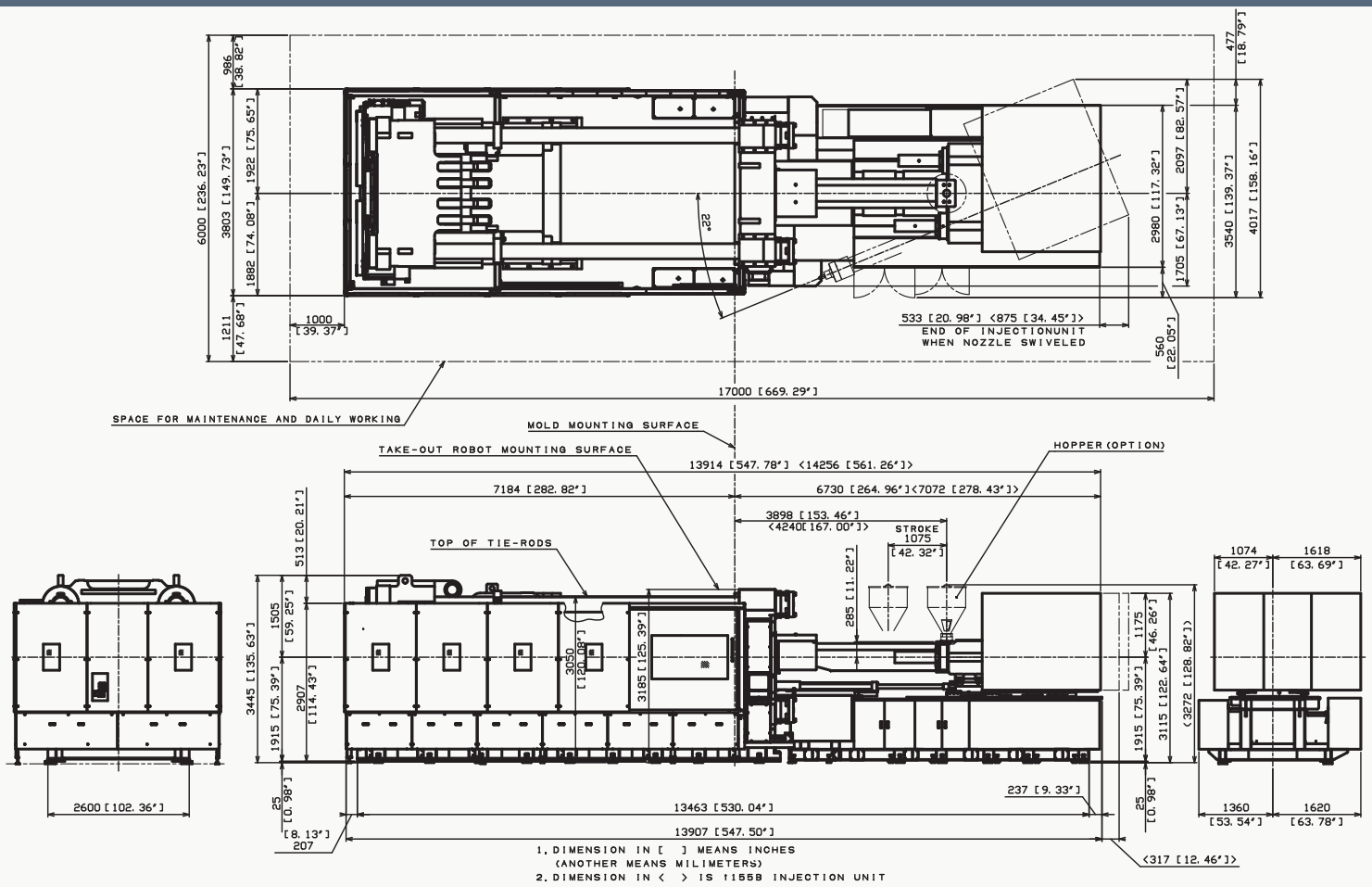


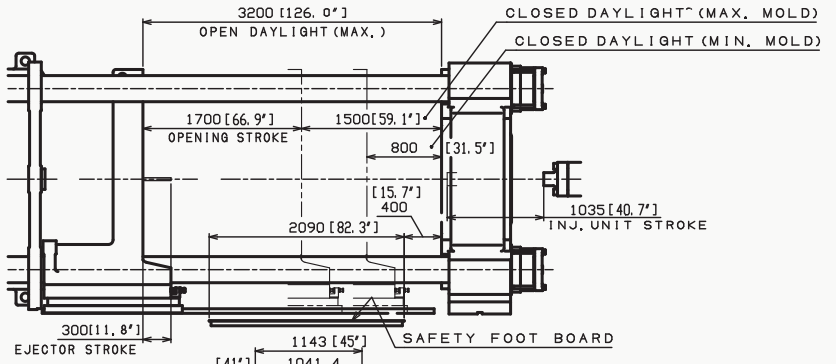


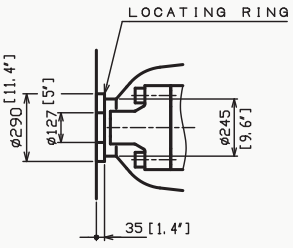


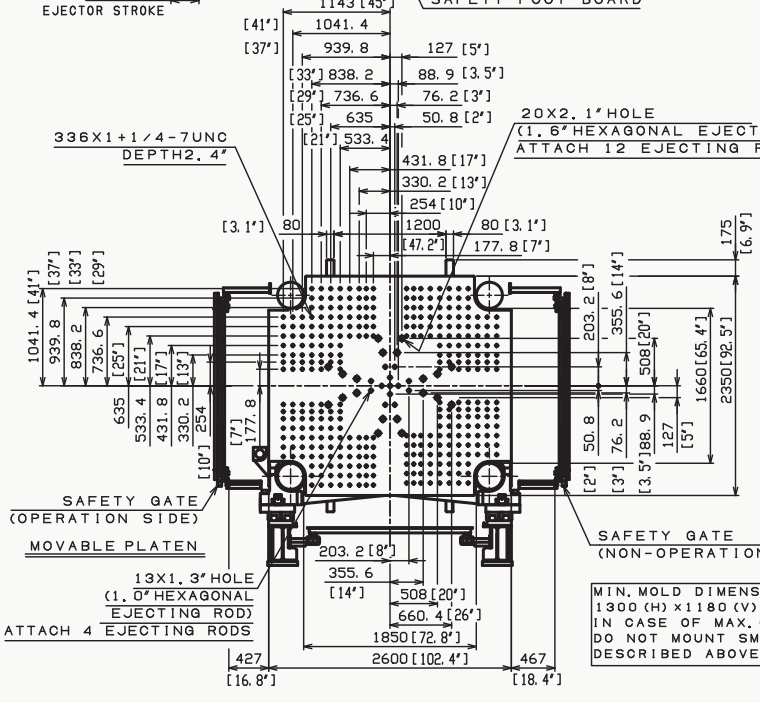
MIN. MOLD DIMENSIONS ARE
820(H)×820(V).
(32.28"(H))×(32.28"(V)).
IN CASE OF MAX. CLAMPING FORCE.
DO NOT MOUNT SMALLER MOLD THAN DESCRIBED ABOVE.

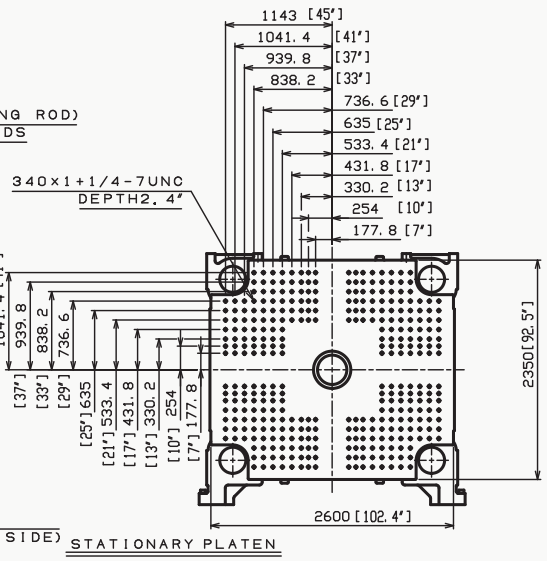
EC1950SX











MIN. MOLD DIMENSIONS ARE
1300 (H) x 1180 (V), 51.2" (H) x 46.5" (V)
IN CASE OF MAX. CLAMPING FORCE,
DO NOT MOUNT SMALLER MOLD THAN
DESCRIBED ABOVE.

mm [Inch]

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