

**TOSHIBA MACHINE**

**ECSXII**



Smart All-Electric Molding Solutions.

[www.Toshiba-Machine.com](http://www.Toshiba-Machine.com)

Watch the ECSXII video.



Reach for the impossible. Achieve the incredible.

Europe Specifications - Catalog #ECSXII 9-16

# Meet the Next Generation of All-Electrics





## The ECSXII from Toshiba Machine

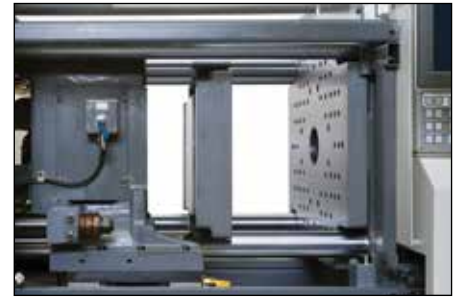
In 2010, Toshiba Machine revolutionized injection molding with the ECSX series of all-electrics. The powerhouse of injection molding, it not only gave molders faster dry cycle times, longer mold life and more uniform clamping force, but more shot sizes from a single machine and the most advanced controller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

Now we've taken the next step. Introducing the all-new ECSXII – all-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



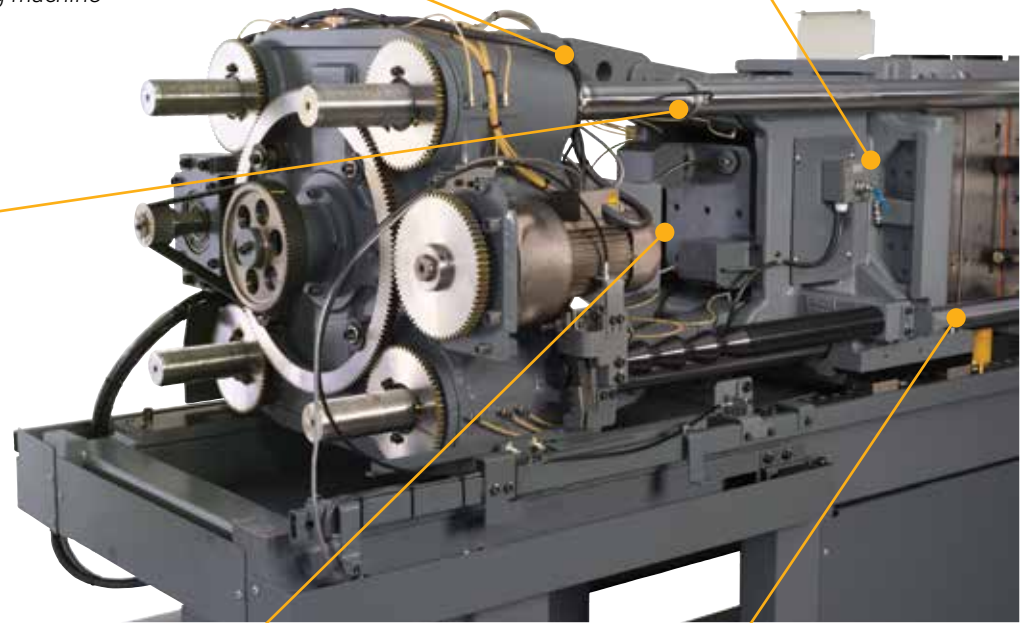
*The ECSXII's 5-point Link-line toggle mechanism is angled to distribute force evenly across the platen, increasing quality and minimizing defects. It has the added benefit of extending mold life and reducing machine maintenance.*



*Two-piece removable platens can be changed out in 15 minutes giving you extraordinary flexibility.*



*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.*



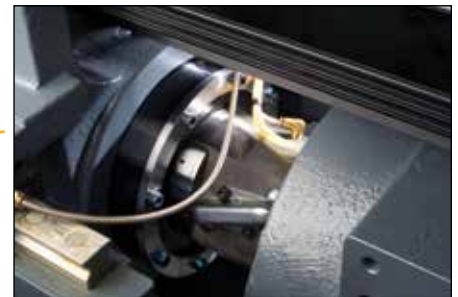
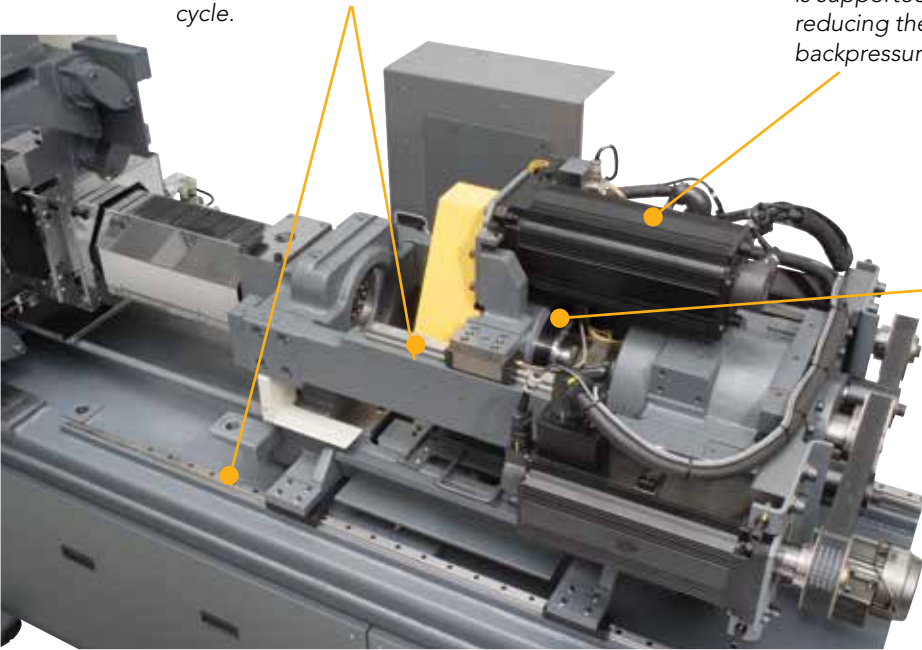
*(S3) Simple, Steady, Smooth – Friction free drive system ensures more accurate injection speed and back pressure control, improving shot-to-shot repeatability throughout the processing cycle.*



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



 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.*

# 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



Integrated control panel



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.

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



## Speed up injection

Optional twin motors are available to boost the ECSXII's injection speed up to 500 mm/sec.



## 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	EC50SXII					EC75SXII					
CLAMP	Clamping Force	kN(tf)	490 (50)					735 (75)					
	Tie Bar Distance	HxV	mm	410 X 360					410 X 360				
	Platen Dimensions	HxV	mm	510 X 460					580 X 530				
	Clamp Stroke		mm	300					300				
	Open Daylight	Max	mm	670					770				
	Mold Height	Min.-Max	mm	150~370					150~470				
	Ejector Force		kN(tf)	20 (2.0)					20 (2.0)				
	Ejector Stroke		mm	70					70				
INJECTION	Injection Unit Code		i1			i1.5		i1.5		i2			
	Barrel Code		YZ	Y	A	Y	A	Y	A	Y	A	B	
	Screw Diameter	mm	20	22	25	25	28	25	28	28	32	36	
	Injection Capacity	cm <sup>3</sup>	31	38	49	55	69	55	69	78	102	130	
	Injection Weight	PS	g	29	35	45	51	63	51	63	72	94	120
		PE	g	23	28	36	40	50	40	50	57	75	95
	Max Injection Pressure	MPa	270	270	220	276	220	276	220	287	220	174	
	Max Holding Pressure	MPa	270	270	220	276	220	276	220	287	220	174	
	Injection Speed	STD	mm/s	300					300				
	Injection Rate	STD	cm <sup>3</sup> /s	94	114	147	147	184	147	184	184	241	305
	Injection Speed	High Duty	mm/s	200					200				
	Injection Rate	High Duty	cm <sup>3</sup> /s	63	76	98	98	123	98	123	123	161	204
	Injection Speed	High Speed	mm/s	500					500				
	Injection Rate	High Speed	cm <sup>3</sup> /s	157	190	245	245	308	245	308	308	402	509
	Plasticizing Capacity	PS	kg/h	14	22	28	25	35	25	35	40	61	83
	Screw Speed (Max)		min-1	430	420	420	390	390	390	390	400	390	350
	Screw Torque		N-m	109	143	204	204	280	204	280	280	407	407
	Nozzle Touch Force		kN(tf)	20 (2.0)					20 (2.0)				
GENERAL	Main Breaker Capacity	STD	A	40			50		50		75		
		High Duty	A	40			50		50		75		
		High Speed	A	75			100		100		125		
	Transformer	STD	kVA	30			30		45		45		
	Heater Capacity		kW	4.8			6.6		6.6		6.8		7.6
	Machine Dimensions	L	m	3.8			3.9		4.0		4.1		4.2
		W		1.3			1.3		1.3		1.3		
H		1.6			1.6		1.6		1.6				
Machine Weight		t	3.0			3.1		3.2		3.3			

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

# ECSXII Specifications

ITEM		Unit	EC100SXII							EC130SXII							
CLAMP	Clamping Force		kN(tf)	980 (100)							1270 (130)						
	Tie Bar Distance	HxV	mm	460 X 410							510 X 460						
	Platen Dimensions		HxV	mm	660 X 610							720 X 670					
	Clamp Stroke			mm	350							400					
	Open Daylight	Max	mm	900							950						
	Mold Height	Min.-Max	mm	180~550							180~550						
	Ejector Force			kN(tf)	30 (3.0)							30(3.0)					
	Ejector Stroke			mm	90							90					
INJECTION	Injection Unit Code			i2			i3			i4			i3		i4		
	Barrel Code			Y	A	B	Y	A	Y	A	B	Y	A	Y	A	B	
	Screw Diameter		mm	28	32	36	32	36	36	40	45	32	36	36	40	45	
	Injection Capacity		cm <sup>3</sup>	78	102	130	115	146	162	201	254	115	146	162	201	254	
	Injection Weight	PS	g	72	94	120	105	134	145	180	230	105	134	145	180	230	
		PE	g	57	75	95	83	106	115	145	185	83	106	115	145	185	
	Max Injection Pressure		MPa	287	220	174	253	200	247	200	158	253	200	247	200	158	
	Max Holding Pressure		MPa	287	220	174	253	200	247	200	158	253	200	247	200	158	
	Injection Speed	STD	mm/s	300							300						
	Injection Rate	STD	cm <sup>3</sup> /s	184	241	305	241	305	305	376	477	241	305	305	376	477	
	Injection Speed	High Duty	mm/s	200							200						
	Injection Rate	High Duty	cm <sup>3</sup> /s	123	161	204	161	204	204	251	318	161	204	204	251	318	
	Injection Speed	High Speed	mm/s	500			400				400						
	Injection Rate	High Speed	cm <sup>3</sup> /s	308	402	509	321	407	407	502	636	321	407	407	502	636	
	Plasticizing Capacity	PS	kg/h	40	61	83	61	83	83	110	120	61	83	83	110	120	
	Screw Speed (Max)		min-1	400	390	350	390	350	350	320	285	390	350	350	320	285	
	Screw Torque		N-m	280	407	407	407	566	566	761	761	407	566	566	761	761	
	Nozzle Touch Force		kN(tf)	17.7 (1.8)							17.7 (1.8)						
GENERAL	Main Breaker Capacity	STD	A	75			75			100			75		100		
		High Duty	A	75			75			100			75		100		
		High Speed	A	125			100			125			100		125		
	Transformer	STD	kVA	45			45			75			45		75		
	Heater Capacity		kW	6.8		7.6	7.9		11.2		11.9	7.9		11.2		11.9	
	Machine Dimensions	L	m	4.6		4.7	4.7		4.8		5.0	4.9		5.0		5.1	
		W		1.3		1.3		1.3			1.5		1.5				
H		1.7		1.7		1.7			1.7		1.7						
Machine Weight		t	4.2			4.3			4.3			5.2		5.3			

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# ECSXII Specifications

	ITEM		Unit	EC180SXII							EC230SXII							
CLAMP	Clamping Force		kN(tf)	1760 (180)							2250 (230)							
	Tie Bar Distance	HxV	mm	560 X 510							610 X 560							
	Platen Dimensions		HxV	mm	790 X 740							880 X 830						
	Clamp Stroke			mm	450							550						
	Open Daylight	Max	mm	1050							1230							
	Mold Height	Min.-Max	mm	220-600							250-680							
	Ejector Force			kN(tf)	49 (5.0)							49 (5.0)						
	Ejector Stroke			mm	130							130						
INJECTION	Injection Unit Code			i4			i6			i8			i6			i8		
	Barrel Code			Y	A	B	Y	A	Y	A	B	Y	A	Y	A	B		
	Screw Diameter		mm	36	40	45	40	45	45	50	55	40	45	45	50	55		
	Injection Capacity		cm <sup>3</sup>	162	201	254	226	286	318	392	475	226	286	318	392	475		
	Injection Weight	PS	g	145	180	230	208	263	292	361	437	208	263	292	361	437		
		PE	g	115	145	185	165	209	232	286	346	165	209	232	286	346		
	Max Injection Pressure		MPa	247	200	158	253	200	247	200	165	253	200	247	200	165		
	Max Holding Pressure		MPa	247	200	158	253	200	247	200	165	253	200	247	200	165		
	Injection Speed	STD	mm/s	300			250			300			250					
	Injection Rate	STD	cm <sup>3</sup> /s	305	376	477	376	477	397	490	593	376	477	397	490	593		
	Injection Speed	High Duty	mm/s	160						160								
	Injection Rate	High Duty	cm <sup>3</sup> /s	204	251	318	201	254	254	314	380	201	254	254	314	380		
	Injection Speed	High Speed	mm/s	400			350			400			350					
	Injection Rate	High Speed	cm <sup>3</sup> /s	407	502	636	502	636	556	687	831	502	636	556	687	831		
	Plasticizing Capacity	PS	kg/h	83	110	120	110	120	120	160	190	110	120	120	160	190		
	Screw Speed (Max)		min-1	350	320	285	320	285	285	255	230	320	285	285	255	230		
	Screw Torque		N-m	566	761	761	761	1058	1058	1421	1421	761	1058	1058	1421	1421		
	Nozzle Touch Force		kN(tf)	29.4 (3.0)							29.4 (3.0)							
GENERAL	Main Breaker Capacity	STD	A	100			125			125			125					
		High Duty	A	100			125			125			125					
		High Speed	A	125			175			175			175					
	Transformer	STD	kVA	75			75			75			75					
	Heater Capacity		kW	11.2		12	13.6		15.2		16	13.6		15.2		16		
	Machine Dimensions	L	m	5.7			5.9			6.0		6.1	6.2		6.3		6.4	
		W		1.6			1.6			1.6		1.7		1.7				
		H		1.8			1.8			1.8		2.0		2.0				
Machine Weight		t	7.0			7.3			7.3			9.2		9.9				

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

# Standard Features

## Injection

- ▶ Open nozzle
- ▶ Barrel
- ▶ 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

## 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 control (coining for clamp)
- ▶ 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
- ▶ Pneumatic control software (electrical interface for: 4 x air blow; 1 x valve-



Quick change heater disconnects

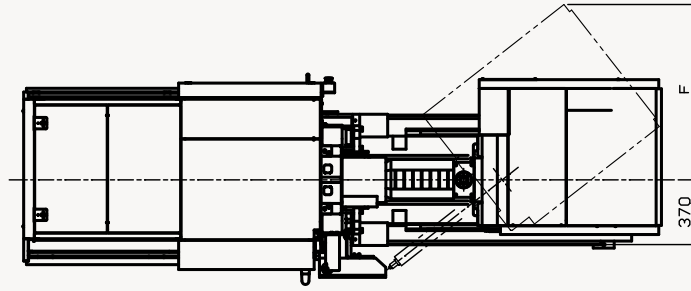
## Controller

- ▶ Six programmable outputs standard
- ▶ Step switch/ten key input
- ▶ Setting data memory for 300 sets of molds
- ▶ EUROMAP67 signal terminal output
- ▶ 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

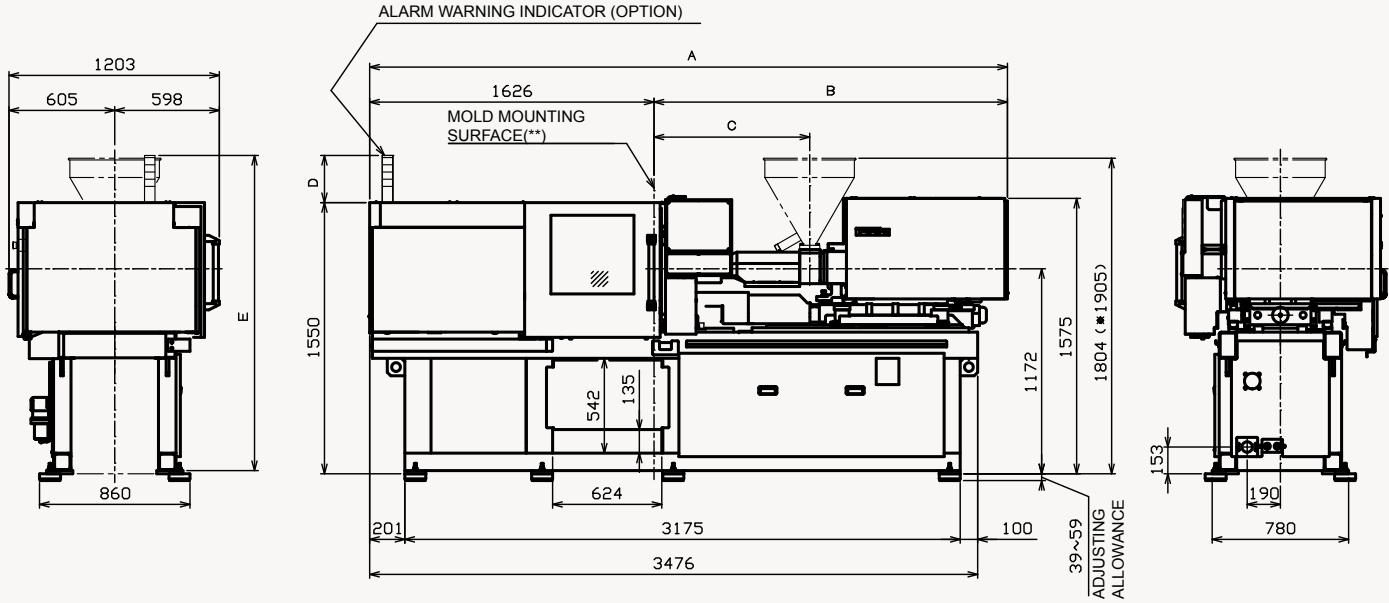
## General

- ▶ Built-in Transformer for 130t, 180t & 230t (standard & high-duty injection speed only)

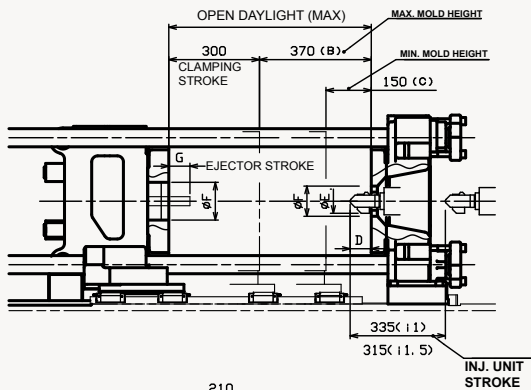
# EC50SXII



- 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 T-slotted mold platen, insulating plates and magnetic clamp unit.



INJECTION UNIT	A	B	C	F	ALARM WARNING INDICATOR (OPTION)	
1A, Y, YZ	3646	2020	890	1002	NUMBER OF LAYERS	D
1, 5A, Y	3817	2191	951	1038	1	146
					2	187
					3	228
					4	269



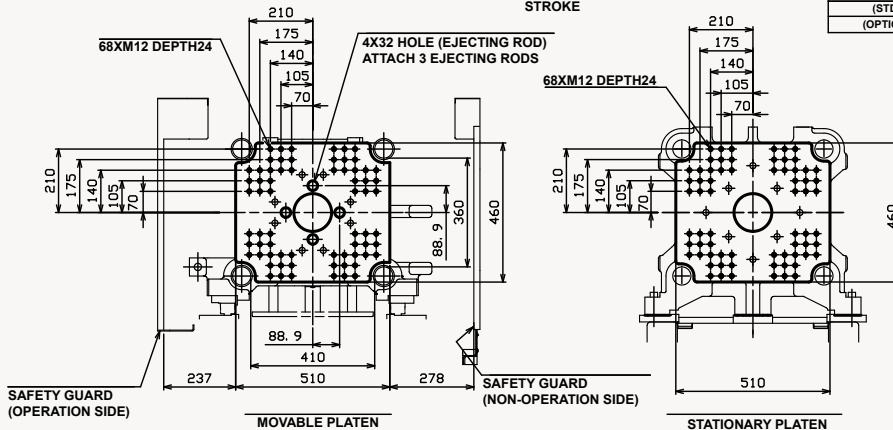
NOZZLE PROJECTION		
1, 5A	(STD)	20
	(OPTION)	55
		90

IN CASE OF OPTIONAL INSULATING PLATES		5mm	10mm
OPEN DAYLIGHT (MAX.)		660	650
MAX. MOLD HEIGHT		360	350
MIN. MOLD HEIGHT		140	130
NOZZLE PROJECTION	1, 5A	(STD)	15
		(OPTION)	50
		85	80

OUTSIDE DIAMETER OF NOZZLE HEATER	
1, 5A	36.7

LOCATING RING HOLE DIAMETER	
(STD)	φ125 <sup>+0.040</sup>

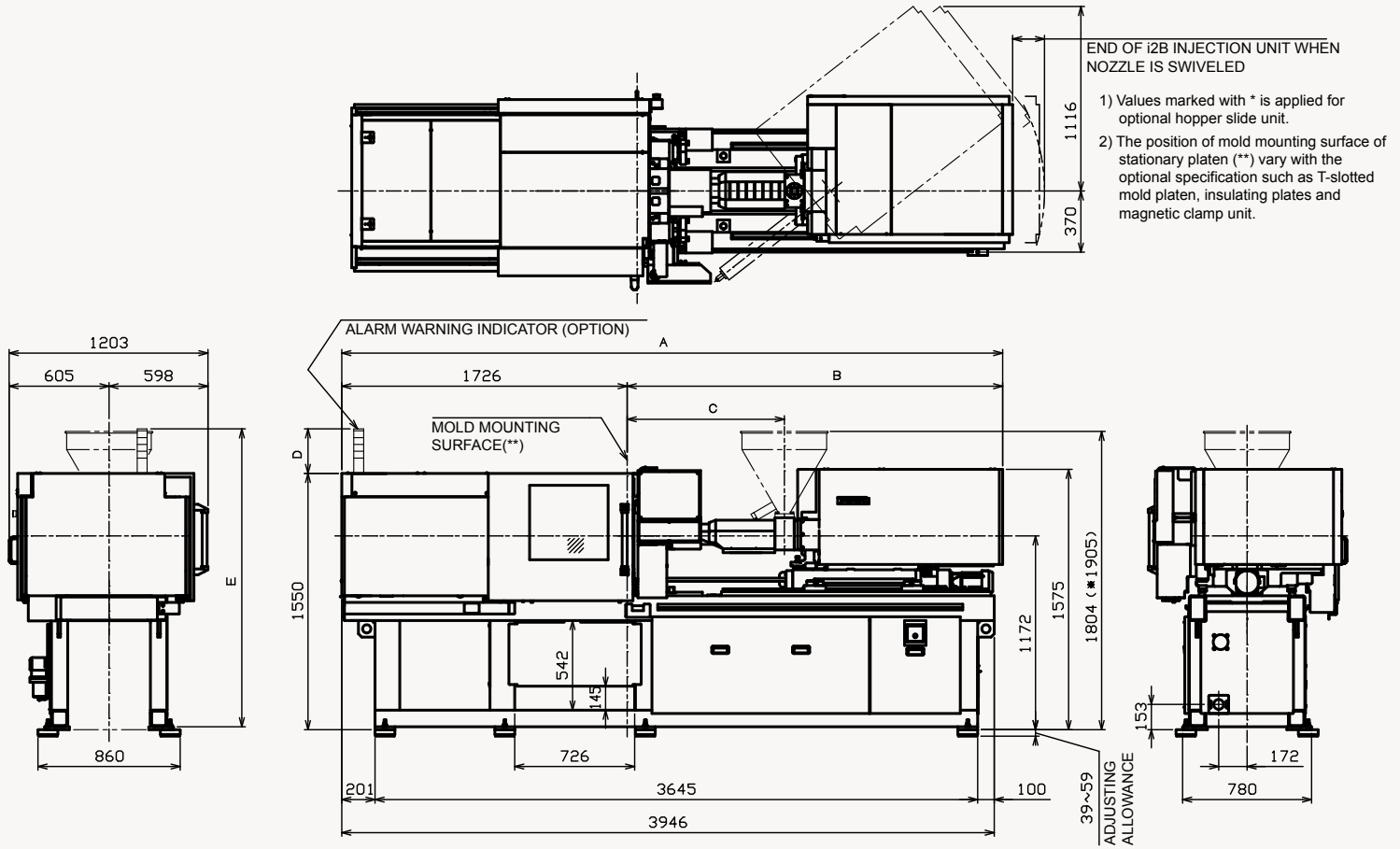
EJECTOR STROKE	
(STD)	70
(OPTION)	100



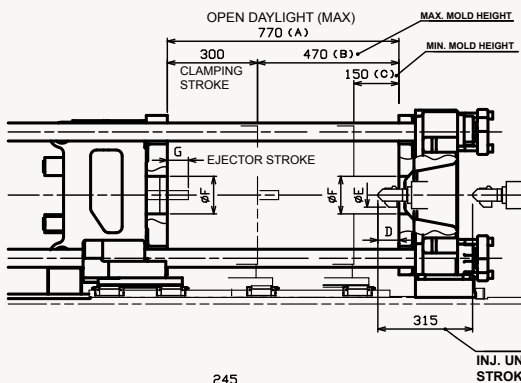
235 (H) X 210 (V)  
 MIN. MOLD DIMENSIONS ARE  
 235 (H) X 210 (V)  
 IN CASE OF MAX. CLAMPING  
 FORCE, DO NOT MOUNT SMALLER  
 MOLD THAN DESCRIBED ABOVE.

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

# EC75SXII



INJECTION UNIT	A	B	C	ALARM WARNING INDICATOR (OPTION)	
				NUMBER OF LAYERS	
1.5A, Y	3997	2271	951	D	E
2A	4079	2353	1033	1	146 1696
2B	4159	2433	1113	2	187 1737
				3	228 1778
				4	269 1819



(D) NOZZLE PROJECTION	
1.5A	(STD) 20
	(OPTION) 55
12Y	(STD) 30
	(OPTION) 65
12A	(STD) 65
	(OPTION) 100
	(OPTION) 135

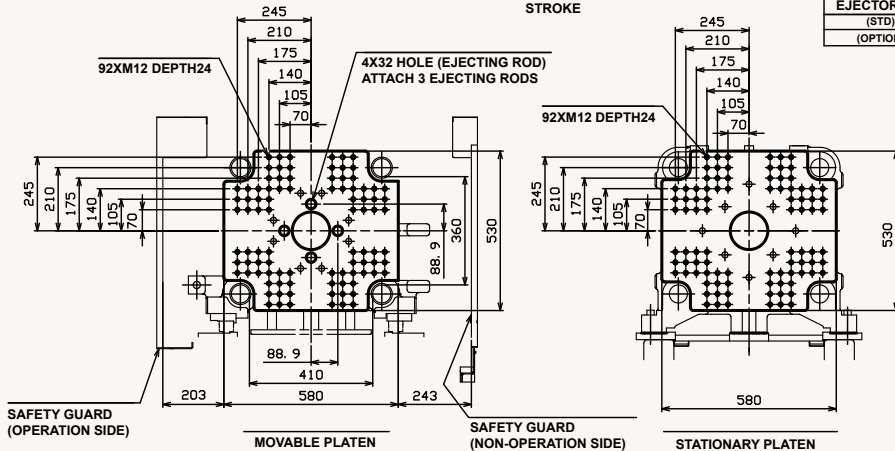
(E) OUTSIDE DIAMETER OF NOZZLE HEATER	
1.5A	36.7
12Y	
12A	80

(F) LOCATING RING HOLE DIAMETER	
(STD)	φ125 <sup>+0.040</sup>

IN CASE OF OPTIONAL INSULATING PLATES			
		5mm	10mm
OPEN DAYLIGHT (MAX.)	(A)	760	750
MAX. MOLD HEIGHT	(B)	460	450
MIN. MOLD HEIGHT	(C)	140	130
NOZZLE PROJECTION	1.5A	(STD)	15 10
		(OPTION)	50 45
	12Y	(STD)	25 20
		(OPTION)	60 55
	12A	(STD)	95 90
		(OPTION)	95 90

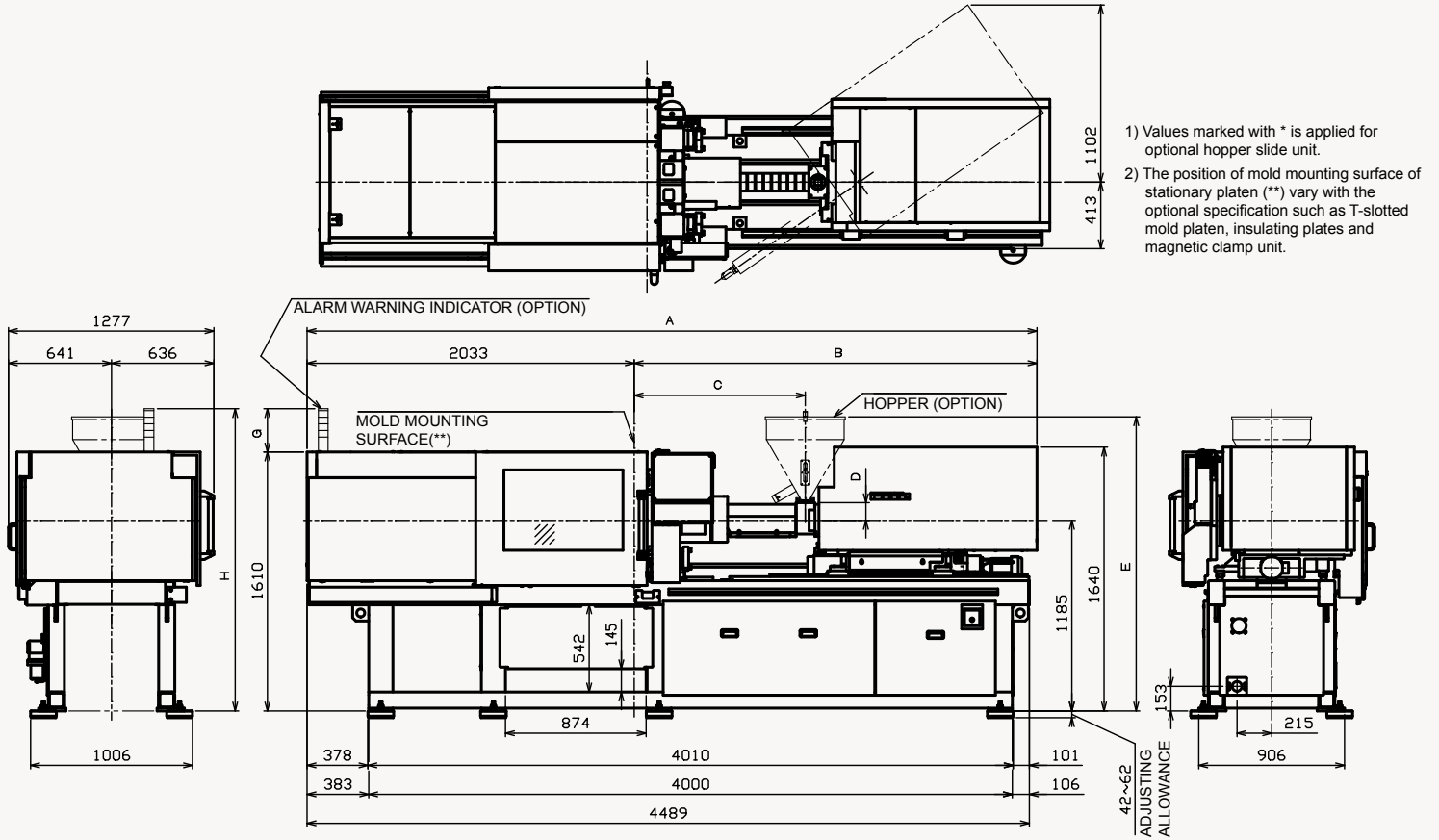
(G) EJECTOR STROKE	
(STD)	70
(OPTION)	100

235 (H) X 210 (V)  
MIN. MOLD DIMENSIONS ARE  
235 (H) X 210 (V)  
IN CASE OF MAX. CLAMPING  
FORCE, DO NOT MOUNT SMALLER  
MOLD THAN DESCRIBED ABOVE



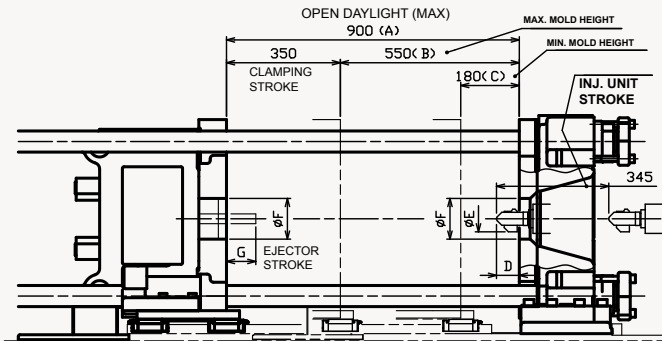
Note: Specifications can change without notice. Contact Toshiba Machine for most current specifications.

# EC100SXII



INJECTION UNIT	A	B	C	D	E
2A, Y	4536	2503	1063	110	1827 (*1928)
2B	4616	2583	1143	110	1827 (*1928)
3A, Y	4632	2599	1159	110	1827 (*1928)
4A, Y	4797	2764	1249	100	1817 (*1918)
4B	4901	2868	1353	100	1817 (*1918)

ALARM WARNING INDICATOR (OPTION)		
NUMBER OF LAYERS	G	H
1	144	1754
2	187	1795
3	226	1836
4	269	1877



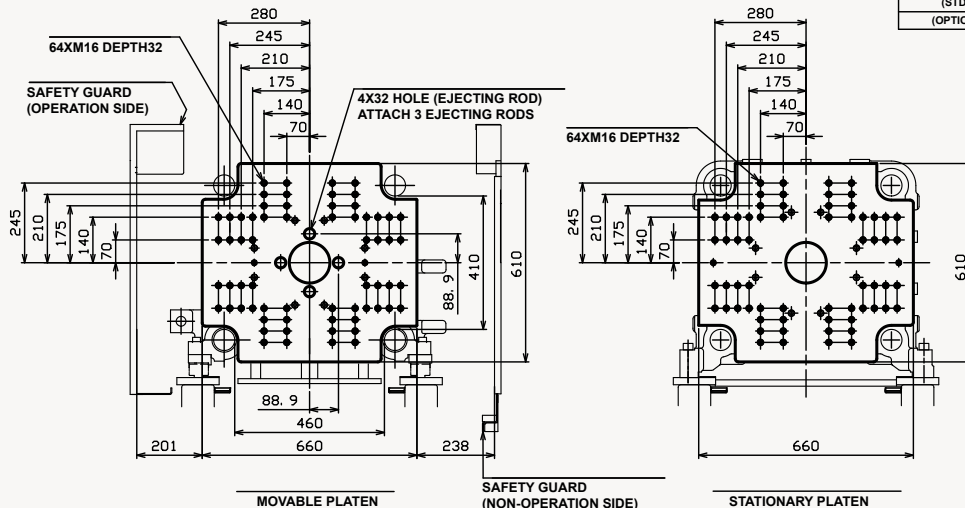
NOZZLE PROJECTION	
(STD)	30
12 Y (OPTION)	65
(A)	100
12 A (STD)	65
(B)	100
(OPTION)	135
(C)	135

(E) OUTSIDE DIAMETER OF NOZZLE HEATER	
12 Y	36.7
12 A	80
(D)	80

LOCATING RING HOLE DIAMETER	
(STD)	$\phi 125^{+0.040}_0$

IN CASE OF OPTIONAL INSULATING PLATES		5mm	10mm
(A) OPEN DAYLIGHT (MAX.)		890	880
(B) MAX. MOLD HEIGHT		540	530
(C) MIN. MOLD HEIGHT		170	160
NOZZLE PROJECTION (D)	12 Y	(STD)	25 20
		(OPTION)	60 55
	12 A	(STD)	95 90
		(OPTION)	60 55
(OPTION)	95 90	130 125	

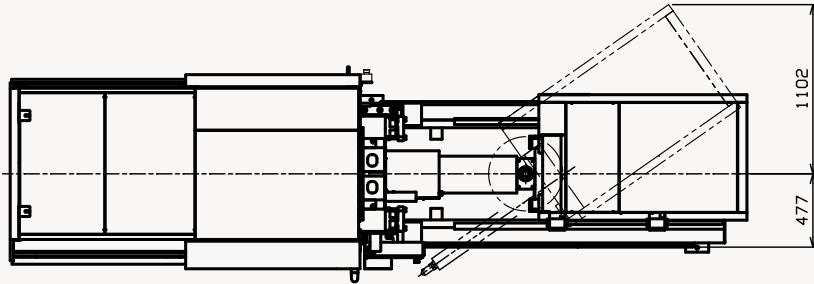
EJECTOR STROKE	
(STD)	90
(OPTION)	120



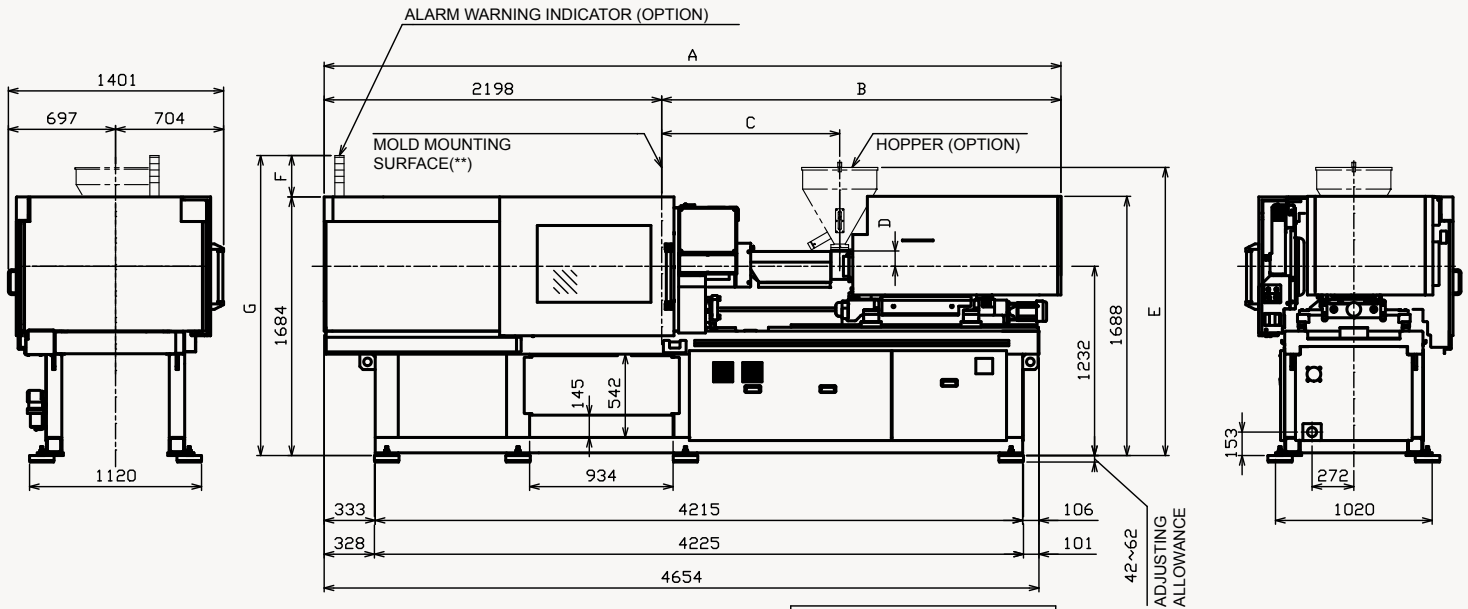
265 (H) X 240 (V)  
 MIN. MOLD DIMENSIONS ARE  
 265 (H) X 240 (V).  
 IN CASE OF MAX. CLAMPING  
 FORCE, DO NOT MOUNT SMALLER  
 MOLD THAN DESCRIBED ABOVE.

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

# EC130SXII

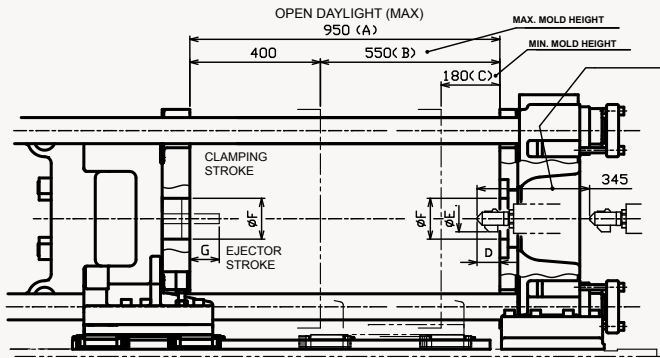


- 1) Values marked with \* is applied for optional hopper slide unit.
- 2) The position of mold mounting surface of stationary platen (\*\*) vary with the optional specification such as T-slotted mold platen, insulating plates and magnetic clamp unit.



INJECTION UNIT	A	B	C	D	E
3A, Y	4812	2614	1174	110	1886 (*1965)
4A, Y	4902	2704	1264	100	1876 (*1955)
4B	5006	2808	1368	100	1876 (*1955)

ALARM WARNING INDICATOR (OPTION)		
NUMBER OF LAYERS	F	G
1	146	1830
2	187	1871
3	228	1912
4	269	1953



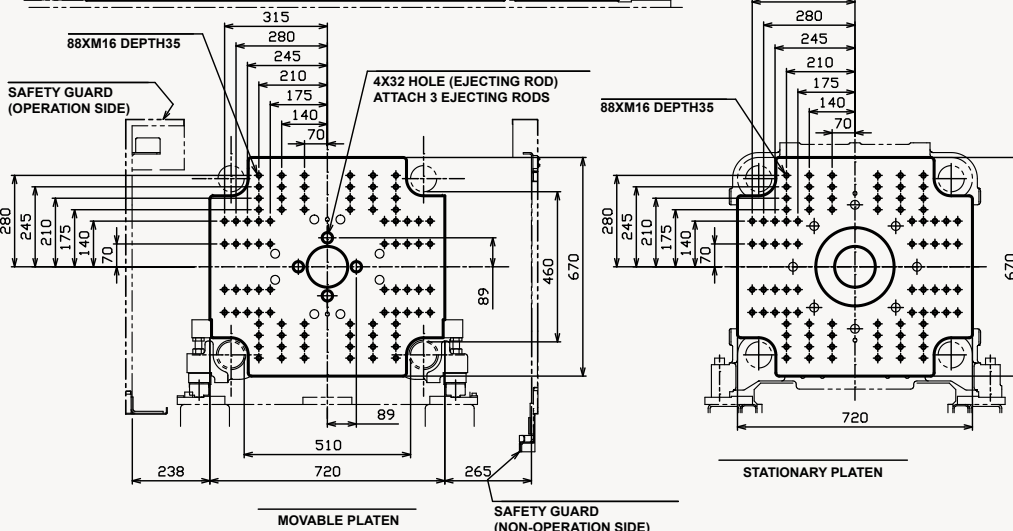
NOZZLE PROJECTION (D)	
(STD)	65
(OPTION)	100
	135

OUTSIDE DIAMETER OF NOZZLE HEATER (E)	
13 A	80

LOCATING RING HOLE DIAMETER	
(STD)	φ125 <sup>+0.040</sup> <sub>0</sub>

IN CASE OF OPTIONAL INSULATING PLATES		
< A >	5mm	10mm
OPEN DAYLIGHT (MAX.)	940	930
< B >		
MAX. MOLD HEIGHT	540	530
< C >		
MIN. MOLD HEIGHT	170	160
NOZZLE PROJECTION < D >	(STD)	60 55
	(OPTION)	95 90
		130 125

EJECTOR STROKE	
(STD)	90
(OPTION)	120

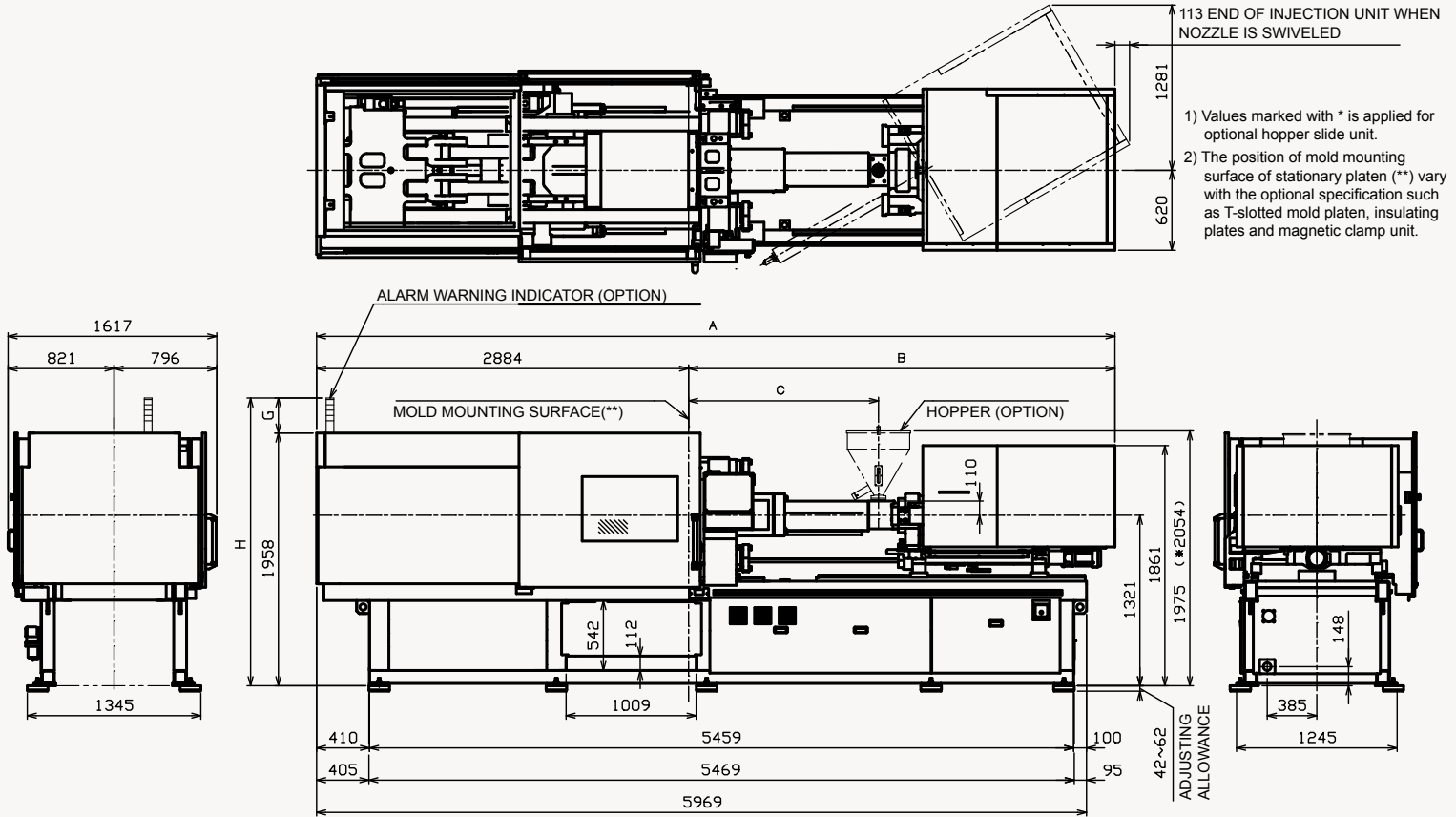


295 (H) X 270 (V)  
 MIN. MOLD DIMENSIONS ARE  
 285 (H) X 270 (V).  
 IN CASE OF MAX. CLAMPING  
 FORCE, DO NOT MOUNT SMALLER  
 MOLD THAN DESCRIBED ABOVE.

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

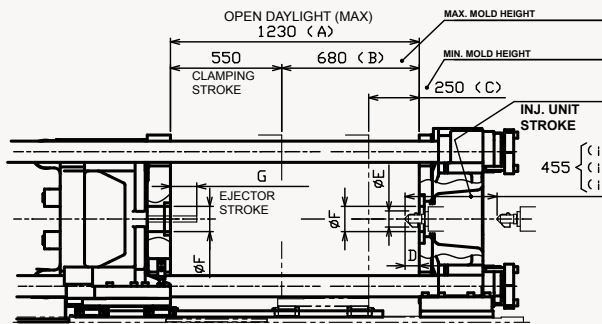


# EC230SXII



INJECTION UNIT	A	B	C
6A, Y	6190	3306	1473
8A, Y	6289	3405	1572
8B	6393	3509	1676

ALARM WARNING INDICATOR (OPTION)		
NUMBER OF LAYERS	G	H
1	146	2104
2	187	2145
3	228	2186
4	269	2227



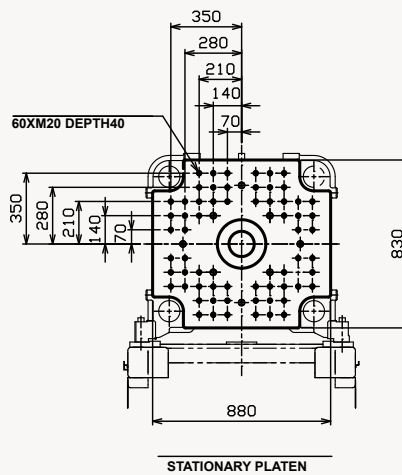
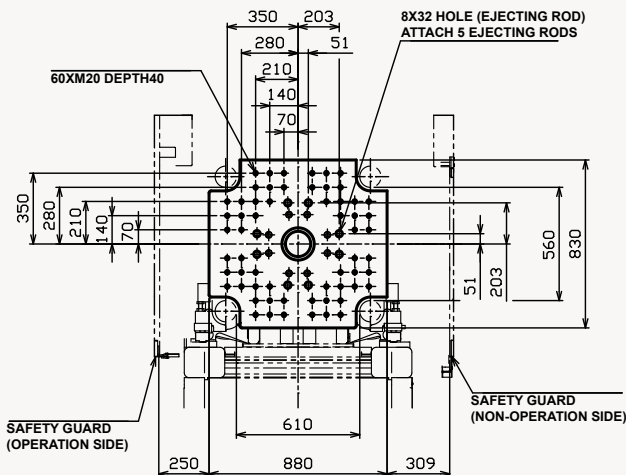
(D) NOZZLE PROJECTION	
14A	(STD) 65
?	(OPTION) 100
	135

(E) OUTSIDE DIAMETER OF NOZZLE HEATER	
14A	80
?	

(F) LOCATING RING HOLE DIAMETER	
(STD)	$\phi 125^{+0.040}_0$
(OPTION)	$\phi 160^{+0.040}_0$

IN CASE OF OPTIONAL INSULATING PLATES		
	5mm	10mm
<A>		
OPEN DAYLIGHT (MAX.)	1220	1210
<B>		
MAX. MOLD HEIGHT	670	660
<C>		
MIN. MOLD HEIGHT	240	230
NOZZLE PROJECTION <D>		
14A	(STD)	60 55
?	(OPTION)	95 90
		130 125

(G) EJECTOR STROKE	
(STD)	130
(OPTION)	180



360 (H) X 335 (V)  
MIN. MOLD DIMENSIONS ARE 360 (H) X 335 (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.

## NOTES

# Offices / Technical Support

## Ask us.

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

**Toshiba Machine (EU) Ltd.**

66 Burners Lane, Kiln Farm  
Milton Keynes, MK11 3HD, UK  
Tel: +44 (0)1908 562327

Email: [sales@toshiba-machine.co.uk](mailto:sales@toshiba-machine.co.uk)



**TOSHIBA MACHINE**

[www.Toshiba-Machine.com](http://www.Toshiba-Machine.com)

