NIIGATA

NIIGATA MACHINERY

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V1.0

MV

ALL ELECTRIC INJECTION MOLDING MACHINE

NIIGATA

NIIGATA MACHINERY CO., LTD.

MV Series Specifications

Item				Unit	MV600						MV900									
Injection Unit	LP Specification	Injection Unit		-	80			120			120			160			210			
		Screw	Type	-	A	B	C	A	B	C	A	B	C	A	B	C	AA	A	B	C
			Diameter	mm	19	22	26	22	26	30	22	26	30	26	28	30	26	28	32	36
		Injection stroke		mm	75	95	95	95	110	110	95	110	110	110	110	110	115	115	125	125
		Injection volume (theoretical)	※1	cm^3	21	36	50	36	58	77	36	58	77	58	67	77	61	70	100	127
		Injection weight (PS)	※2	g	19.1	32.8	45.5	32.8	52	70	32.8	52	70	52	61	70	55	64	91	115
		Injection pressure	※3	MPa	260	220	157	280	220	165	280	220	165	260	220	192	280	260	200	160
		Holding pressure	※3	MPa	208	175	125	220	160	120	220	160	120	160	138	120	224	206	160	126
		Injection speed	※4	mm/s	200			200			200			200			200			
		Injection rate (PS)		g/s	49	66	92	66	92	123	66	92	123	92	107	123	92	107	140	177
	Standard Style	Injection Unit		-	80h			120h			120h			160h			210h			
		Screw	Type	-	A	B	C	A	B	C	A	B	C	A	B	C	AA	A	B	C
			Diameter	mm	19	22	26	22	26	30	22	26	30	26	28	30	26	28	32	36
		Injection stroke		mm	75	95	95	95	110	110	95	110	110	110	110	110	115	115	125	125
		Injection volume (theoretical)	※1	cm^3	21	36	50	36	58	77	36	58	77	58	67	77	61	70	100	127
		Injection weight (PS)	※2	g	19.1	32.8	45.5	32.8	52	70	32.8	52	70	52	61	70	55	64	91	115
		Injection pressure	※3	MPa	260	220	157	280	220	165	280	220	165	260	220	192	280	260	200	160
		Holding pressure	※3	MPa	208	175	125	220	160	120	220	160	120	160	138	120	224	206	160	126
		Injection speed	※4	mm/s	350			350			350			350			350			
		Injection rate (PS)		g/s	86	116	162	116	162	216	116	162	216	162	188	216	162	188	245	311
	High-speed Specification	Injection Unit		-	80hs			120hs			120hs			160hs			210hs			
		Screw	Type	-	A	B	C	A	B	C	A	B	C	A	B	C	AA	A	B	C
			Diameter	mm	19	22	26	22	26	30	22	26	30	26	28	30	26	28	32	36
		Injection stroke		mm	75	95	95	95	110	110	95	110	110	110	110	110	115	115	125	125
		Injection volume (theoretical)	※1	cm^3	21	36	50	36	58	77	36	58	77	58	67	77	61	70	100	127
		Injection weight (PS)	※2	g	19.1	32.8	45.5	32.8	52	70	32.8	52	70	52	61	70	55	64	91	115
		Injection pressure	※3	MPa	260	220	157	280	220	165	280	220	165	260	220	192	280	260	200	160
		Holding pressure	※3	MPa	208	175	125	220	160	120	220	160	120	160	138	120	224	206	160	126
		Injection speed	※4	mm/s	500			500			500			500			500			
		Injection rate (PS)		g/s	123	166	231	166	231	308	166	231	308	231	268	308	231	268	351	444
	Screw Rotating Speed			min^{-1}	400			400			400			400			400			
	Plasticizing rate (GPPS)		※5	g/s	3.8	6.0	8.0	6.0	8.8	13	6.0	8.8	13	8.8	11	13	8.5	11	16	19.4
	Nozzle Stroke			mm	290			290			300			300			315			
	Nozzle contact force			kN	9.8			14.7			14.7			19.6			19.6			
	Temp. Zones	Nozzle/Heating Cylinder		-	4			4			4			6			6			
		Hopper Base		-	1			1			1			1			1			
	Heating power			kW	4.5	5.7	5.7	6.0	7.8	7.8	6.0	7.8	7.8	7.5	7.5	7.5	6.9	7.8	9.2	9.2
Clamping Unit	Clamping way			-	Twin toggle						Twin toggle									
	Clamping force			kN	600						900									
	Dist. Between tie-bars			mm	370×370						420×420									
	Size of mold platen			mm	510×510						580×580									
	Mold dimension min.		※6	mm	240×240						270×270									
	Mold opening stroke			mm	270						320									
	Mold height (min./max.)			mm	150/370						150/410									
	Total daylight max.			mm	640						730									
	Ejector stroke			mm	80						80									
	Ejector force		※7	kN	19.6						19.6									
Others	Connection power		※8	kW/A	80:11/19 80h:13/22 80hs:16/28			120:12/21 120h:16/28 120hs:19/33			120:12/21 120h:16/28 120hs:19/33			160:14/24 160h:18/30 160hs:24/41			210:16/26 210h:21/36 210hs:29/48			
	Supply voltage		※9	-	AC460V/3P/60Hz						AC460V/3P/60Hz									
	Machine weight			ton	3			3.05			3.64			3.65			3.7			
	Machine dimension (L×W×H)	Length		m	4.09			4.09			4.33			4.33			4.39			
		Width		m	1.19			1.19			1.23			1.23			1.23			
		Height	※10	m	1.96			1.96			2.03			2.03			2.03			
	Hopper capacity (OP)			L	15			15			15			15			25			
	Cooling water dosage (min.)		※11	L/min	3.3			5			5			5			5			

● Above specification is subject to change due to continuous improvement. The mark of this "OP." shows optional specification.

※1.Injection capacity is shown by "maximum injection pressure"×"calculated injection volume".

※2.Calculated injection volume is determined by multiplying screw cross sectional area and screw stroke.

※3.Injection weight is for polystyrene and 92% of calculated injection volume.

※4.Maximum injection pressure and maximum holding pressure may be limited by molding conditions.

※5.Plasticizing capacity is for polystyrene.

※6.Do not use a mold that is smaller than this size to prevent machine damage.

※7.Ejector force shown is theoretical value.

※8.Total machine power does not include ancillary equipment power. If an equipment shall be installed to the machine, their power should be added to the machine power.

※9.Voltage fluctuation should not exceed more than 10% or fail 10% less than rated power. Voltage should always be the rated value and fluctuation should be allowed only for a short time.

※10.The machine height does not include leveling pads or signal tower.

※11.Water is used for hopper base cooling below 28°C and it should maintain it's pressure between 0.4~0.6Mpa.

MV Series Specifications

Item				Unit	MV1200															MV1500													
Injection Unit	LP Specification	Injection Unit		-	160			210				300				430				210				300				430			640		
		Screw	Type	-	A	B	C	AA	A	B	C	AA	A	B	C	A	B	C	AA	A	B	C	AA	A	B	C	A	B	C	A	B	C
			Diameter	mm	26	28	30	26	28	32	36	30	32	36	40	36	40	45	26	28	32	36	30	32	36	40	36	40	45	40	45	50
		Injection stroke		mm	110	110	110	115	115	125	125	145	145	145	145	170	170	170	115	115	125	125	145	145	145	145	170	170	170	201	201	201
		Injection volume (theoretical)	※1	cm^3	58	67	77	61	70	100	127	102	116	147	182	173	213	270	61	70	100	127	102	116	147	182	173	213	270	252	319	394
		Injection weight (PS)	※2	g	52	61	70	55	64	91	115	92	106	134	165	157	194	246	55	64	91	115	92	106	134	165	157	194	246	229	290	358
		Injection pressure	※3	MPa	260	220	192	280	260	200	160	280	253	200	162	247	200	158	280	260	200	160	280	253	200	162	247	200	158	253	200	162
		Holding pressure	※3	MPa	160	138	120	224	206	160	126	224	202	160	130	197	160	126	224	206	160	126	224	202	160	130	197	160	126	202	160	130
		Injection speed	※4	mm/s	200			200				200				200			200				200				200			160		
		Injection rate (PS)		g/s	92	107	123	92	107	140	177	123	140	177	219	177	219	277	92	107	140	177	123	140	177	219	177	219	277	175	222	274
	Standard Style	Injection Unit		-	160h			210h				300h				430h			210h				300h				430h			640h		
		Screw	Type	-	A	B	C	AA	A	B	C	AA	A	B	C	A	B	C	AA	A	B	C	AA	A	B	C	A	B	C	A	B	C
			Diameter	mm	26	28	30	26	28	32	36	30	32	36	40	36	40	45	26	28	32	36	30	32	36	40	36	40	45	40	45	50
		Injection stroke		mm	110	110	110	115	115	125	125	145	145	145	145	170	170	170	115	115	125	125	145	145	145	145	170	170	170	201	201	201
		Injection volume (theoretical)	※1	cm^3	58	67	77	61	70	100	127	102	116	147	182	173	213	270	61	70	100	127	102	116	147	182	173	213	270	252	319	394
		Injection weight (PS)	※2	g	52	61	70	55	64	91	115	92	106	134	165	157	194	246	55	64	91	115	92	106	134	165	157	194	246	229	290	358
		Injection pressure	※3	MPa	260	220	192	280	260	200	160	280	253	200	162	247	200	158	280	260	200	160	280	253	200	162	247	200	158	253	200	162
		Holding pressure	※3	MPa	160	138	120	224	206	160	126	224	202	160	130	197	160	126	224	206	160	126	224	202	160	130	197	160	126	202	160	130
		Injection speed	※4	mm/s	350			350				300				300			350				300				300			250		
		Injection rate (PS)		g/s	162	188	216	162	188	245	311	185	210	266	329	266	329	416	162	188	245	311	185	210	266	329	266	329	416	274	347	428
	High-speed Specification	Injection Unit		-	160hs			210hs				300hs				430hs			210hs				300hs				430hs			640hs		
		Screw	Type	-	A	B	C	AA	A	B	C	AA	A	B	C	A	B	C	AA	A	B	C	AA	A	B	C	A	B	C	A	B	C
			Diameter	mm	26	28	30	26	28	32	36	30	32	36	40	36	40	45	26	28	32	36	30	32	36	40	36	40	45	40	45	50
		Injection stroke		mm	110	110	110	115	115	125	125	145	145	145	145	170	170	170	115	115	125	125	145	145	145	145	170	170	170	201	201	201
		Injection volume (theoretical)	※1	cm^3	58	67	77	61	70	100	127	102	116	147	182	173	213	270	61	70	100	127	102	116	147	182	173	213	270	252	319	394
		Injection weight (PS)	※2	g	52	61	70	55	64	91	115	92	106	134	165	157	194	246	55	64	91	115	92	106	134	165	157	194	246	229	290	358
		Injection pressure	※3	MPa	260	220	192	280	260	200	160	280	253	200	162	247	200	158	280	260	200	160	280	253	200	162	247	200	158	253	200	162
		Holding pressure	※3	MPa	160	138	120	224	206	160	126	224	202	160	130	197	160	126	224	206	160	126	224	202	160	130	197	160	126	202	160	130
		Injection speed	※4	mm/s	500			500				500				500			500				500				500			350		
		Injection rate (PS)		g/s	231	268	308	231	268	351	444	308	351	444	548	444	548	694	231	268	351	444	308	351	444	548	444	548	694	384	486	600
	Screw Rotating Speed			min^{-1}	400			400				400				400			400				400				400			350		
	Plasticizing rate (GPPS)		※5	g/s	8.8	11	13	8.5	11	16	19.4	13.3	16.6	20.1	27.7	22	30	42	8.5	11	16	19.4	13.3	16.6	20.1	27.7	22	30	42	27	39	50
	Nozzle Stroke			mm	300			315				340				360			315				340				360			390		
	Nozzle contact force			kN	19.6			19.6				24.5				29.4			19.6				24.5				29.4			39.2		
	Temp. Zones	Nozzle/Heating Cylinder		-	6			6				6				6			6				6				6			6		
		Hopper Base		-	1			1				1				1			1				1				1			1		
	Heating power			kW	7.5	7.5	7.5	6.9	7.8	9.2	9.2	10.3	11.9	11.9	11.9	13.5			6.9	7.8	9.2	9.2	10.3	11.9	11.9	11.9	13.5			14.8		
Clamping Unit	Clamping way			-	Twin toggle														Twin toggle													
	Clamping force			kN	1200														1500													
	Dist. Between tie-bars			mm	470×470														520×520													
	Size of mold platen			mm	640×640														740×740													
	Mold dimension min.		※6	mm	305×305														335×335													
	Mold opening stroke			mm	360														420													
	Mold height (min./max.)			mm	150/480														180/520													
	Total daylight max.			mm	840														940													
	Ejector stroke			mm	100														120													
	Ejector force		※7	kN	29.4														34.3													
Others	Connection power		※8	kW/A	160:14/24 160h:18/30 160hs:24/41			210:16/26 210h:21/36 210hs:29/48				300:20/34 300h:26/43 300hs:37/61				430:27/45 430h:31/52 430hs:48/81			210:16/26 210h:21/36 210hs:29/48				300:20/34 300h:26/43 300hs:37/61				430:27/45 430h:31/52 430hs:48/81			640:28/47 640h:32/53 640hs:49/82		
	Supply voltage		※9	-	AC460V/3P/60Hz														AC460V/3P/60Hz													
	Machine weight			ton	4.6			4.65				4.8				5.15			5.8				6				6.3			6.35		
	Machine dimension (L×W×H)	Length		m	4.81			4.81				4.83				5.28			5.26				5.26				5.58			5.71		
		Width		m	1.36			1.36				1.36				1.36			1.41				1.41				1.41			1.41		
		Height	※10	m	2.11			2.11				2.11				2.11			2.21				2.21				2.21			2.21		
	Hopper capacity (OP)			L	15			25				25				25			25				25				25			25		
	Cooling water dosage (min.)		※11	L/min	5			5				5				5			5				5				5			6.7		

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※1.Injection capacity is shown by "maximum injection pressure"×"calculated injection volume".

※2.Calculated injection volume is determined by multiplying screw cross sectional area and screw stroke.

※3.Injection weight is for polystyrene and 92% of calculated injection volume.

※4.Maximum injection pressure and maximum holding pressure may be limited by molding conditions.

※5.Plasticizing capacity is for polystyrene.

※6.Do not use a mold that is smaller than this size to prevent machine damage.

※7.Ejector force shown is theoretical value.

※8.Total machine power does not include ancillary equipment power. If an equipment shall be installed to the machine, their power should be added to the machine power.

※9.Voltage fluctuation should not exceed more than 10% or fail 10% less than rated power. Voltage should always be the rated value and fluctuation should be allowed only for a short time.

※10.The machine height does not include leveling pads or signal tower.

※11.Water is used for hopper base cooling below 28°C and it should maintain it's pressure between 0.4~0.6Mpa.

MV Series Specifications

Item			Unit	MV1900													MV2300											
Injection Unit	LP Specification	Injection Unit	-	300				430			640			830			430			640			830			1100		
		Screw Type	-	AA	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
		Screw Diameter	mm	30	32	36	40	36	40	45	40	45	50	45	50	55	36	40	45	40	45	50	45	50	55	50	55	60
		Injection stroke	mm	145	145	145	145	170	170	170	201	201	201	210	210	210	170	170	170	201	201	201	210	210	210	240	240	240
		Injection volume (theoretical) ※1	cm^3	102	116	147	182	173	213	270	252	319	394	333	412	498	173	213	270	252	319	394	333	412	498	471	570	678
		Injection weight (PS) ※2	g	92	106	134	165	157	194	246	229	290	358	304	375	454	157	194	246	229	290	358	304	375	454	428	518	617
		Injection pressure ※3	MPa	280	253	200	162	247	200	158	253	200	162	247	200	165	247	200	158	253	200	162	247	200	165	218	180	151
		Holding pressure ※3	MPa	224	202	160	130	197	160	126	202	160	130	197	160	132	197	160	126	202	160	130	197	160	132	194	160	134
		Injection speed ※4	mm/s	200				200			160			160			200			160			160			160		
		Injection rate (PS)	g/s	123	140	177	219	177	219	277	175	222	274	222	274	332	177	219	277	175	222	274	222	274	332	274	332	395
	Standard Style	Injection Unit	-	300h				430h			640h			830h			430h			640h			830h			1100h		
		Screw Type	-	AA	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
		Screw Diameter	mm	30	32	36	40	36	40	45	40	45	50	45	50	55	36	40	45	40	45	50	45	50	55	50	55	60
		Injection stroke	mm	145	145	145	145	170	170	170	201	201	201	210	210	210	170	170	170	201	201	201	210	210	210	240	240	240
		Injection volume (theoretical) ※1	cm^3	102	116	147	182	173	213	270	252	319	394	333	412	498	173	213	270	252	319	394	333	412	498	471	570	678
		Injection weight (PS) ※2	g	92	106	134	165	157	194	246	229	290	358	304	375	454	157	194	246	229	290	358	304	375	454	428	518	617
		Injection pressure ※3	MPa	280	253	200	162	247	200	158	253	200	162	247	200	165	247	200	158	253	200	162	247	200	165	218	180	151
		Holding pressure ※3	MPa	224	202	160	130	197	160	126	202	160	130	197	160	132	197	160	126	202	160	130	197	160	132	194	160	134
		Injection speed ※4	mm/s	300				300			250			250			300			250			250			250		
		Injection rate (PS)	g/s	185	210	266	329	266	329	416	274	347	428	347	428	518	266	329	416	274	347	428	347	428	518	428	518	617
	High-speed Specification	Injection Unit	-	300hs				430hs			640hs			830hs			430hs			640hs			830hs			1100hs		
		Screw Type	-	AA	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
		Screw Diameter	mm	30	32	36	40	36	40	45	40	45	50	45	50	55	36	40	45	40	45	50	45	50	55	50	55	60
		Injection stroke	mm	145	145	145	145	170	170	170	201	201	201	210	210	210	170	170	170	201	201	201	210	210	210	240	240	240
		Injection volume (theoretical) ※1	cm^3	102	116	147	182	173	213	270	252	319	394	333	412	498	173	213	270	252	319	394	333	412	498	471	570	678
		Injection weight (PS) ※2	g	92	106	134	165	157	194	246	229	290	358	304	375	454	157	194	246	229	290	358	304	375	454	428	518	617
		Injection pressure ※3	MPa	280	253	200	162	247	200	158	253	200	162	247	200	165	247	200	158	253	200	162	247	200	165	218	180	151
		Holding pressure ※3	MPa	224	202	160	130	197	160	126	202	160	130	197	160	132	197	160	126	202	160	130	197	160	132	194	160	134
		Injection speed ※4	mm/s	500				500			350			350			500			350			350			350		
		Injection rate (PS)	g/s	308	351	444	548	444	548	694	384	486	600	486	600	726	444	548	694	384	486	600	486	600	726	600	726	864
	Screw Rotating Speed		min^{-1}	400				400			350			320			400			350			320			320		
	Plasticizing rate (GPPS) ※5		g/s	13.3	16.6	20.1	27.7	22	30	42	27	39	50	35	46	60	22	30	42	27	39	50	35	46	60	52	64	75
	Nozzle Stroke		mm	360				390			390			450			390			400			450			520		
	Nozzle contact force		kN	24.5				29.4			39.2			49			29.4			39.2			49			54		
	Temp. Zones	Nozzle/Heating Cylinder	-	6				6			6			6			6			6			6			6		
		Hopper Base	-	1				1			1			1			1			1			1			1		
	Heating power		kW	10.3	11.9	11.9	11.9	13.5			14.8			20.2			13.5			14.8			20.2			23		
Clamping Unit	Clamping way		-	Twin toggle													Twin toggle											
	Clamping force		kN	1900													2300											
	Dist. Between tie-bars		mm	570×570													620×620											
	Size of mold platen		mm	800×800													880×880											
	Mold dimension min. ※6		mm	370×370													400×400											
	Mold opening stroke		mm	470													550											
	Mold height (min./max.)		mm	200/550													220/600											
	Total daylight max.		mm	1020													1150											
	Ejector stroke		mm	130													150											
	Ejector force ※7		kN	44.1													49											
Others	Connection power ※8		kW/A	300:20/34 300h:26/43 300hs:37/61				430:27/45 430h:31/52 430hs:48/81			640:28/47 640h:32/53 640hs:49/82			830:34/58 830h:38/65 830hs:58/98			430:27/45 430h:31/52 430hs:48/81			640:28/47 640h:32/53 640hs:49/82			830:34/58 830h:38/65 830hs:58/98			1100:44/74 1100h:44/74 1100hs:69/116		
	Supply voltage ※9		-	AC460V/3P/60Hz													AC460V/3P/60Hz											
	Machine weight		ton	7.25				7.45			7.5			8.2			9.56			9.61			10.35			10.5		
	Machine dimension (L×W×H)	Length	m	5.9				5.9			5.99			6.3			6.15			6.15			6.44			6.71		
		Width	m	1.52				1.52			1.52			1.52			1.64			1.64			1.64			1.64		
		Height ※10	m	2.29				2.29			2.29			2.29			2.39			2.39			2.39			2.39		
	Hopper capacity (OP)		L	25				25			25			50			25			25			50			50		
	Cooling water dosage (min.) ※11		L/min	5				5			6.7			6.7			5			6.7			6.7			6.7		

● Above specification is subject to change due to continuous improvement. The mark of this "OP." shows optional specification.

※1.Injection capacity is shown by "maximum injection pressure"×"calculated injection volume".

※2.Calculated injection volume is determined by multiplying screw cross sectional area and screw stroke.

※3.Injection weight is for polystyrene and 92% of calculated injection volume.

※4.Maximum injection pressure and maximum holding pressure may be limited by molding conditions.

※5.Plasticizing capacity is for polystyrene.

※6.Do not use a mold that is smaller than this size to prevent machine damage.

※7.Ejector force shown is theoretical value.

※8.Total machine power does not include ancillary equipment power. If an equipment shall be installed to the machine, their power should be added to the machine power.

※9.Voltage fluctuation should not exceed more than 10% or fail 10% less than rated power. Voltage should always be the rated value and fluctuation should be allowed only for a short time.

※10.The machine height does not include leveling pads or signal tower.

※11.Water is used for hopper base cooling below 28°C and it should maintain it's pressure between 0.4~0.6Mpa.

MV Series Specifications

Item			Unit	MV3000												MV3600											
Injection Unit	LP Specification	Injection Unit		-	830			1100			1400			1700			1100			1400			1700			2250		
		Screw	Type	-	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
			Diameter	mm	45	50	55	50	55	60	55	60	65	60	65	70	50	55	60	55	60	65	60	65	70	65	70	80
		Injection stroke		mm	210	210	210	240	240	240	260	260	260	280	280	280	240	240	240	260	260	260	280	280	280	322	322	322
		Injection volume (theoretical)	※1	cm^3	333	412	498	471	570	678	617	735	862	791	929	1077	471	570	678	617	735	862	791	929	1077	1068	1239	1618
		Injection weight (PS)	※2	g	304	375	454	428	518	617	562	668	785	720	845	980	428	518	617	562	668	785	720	845	980	972	1127	1472
		Injection pressure	※3	MPa	247	200	165	218	180	151	214	180	153	210	180	155	218	180	151	214	180	153	210	180	155	210	180	138
		Holding pressure	※3	MPa	197	160	132	194	160	134	190	160	136	187	160	138	194	160	134	190	160	136	187	160	138	190	162	124
		Injection speed	※4	mm/s		160			160			160			160			160			160			160			160	
		Injection rate (PS)		g/s	222	274	332	274	332	395	332	395	463	395	463	537	274	332	395	332	395	463	395	463	537	463	537	702
	Standard Style	Injection Unit		-	830h			1100h			1400h			1700h			1100h			1400h			1700h			2250h		
		Screw	Type	-	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
			Diameter	mm	45	50	55	50	55	60	55	60	65	60	65	70	50	55	60	55	60	65	60	65	70	65	70	80
		Injection stroke		mm	210	210	210	240	240	240	260	260	260	280	280	280	240	240	240	260	260	260	280	280	280	322	322	322
		Injection volume (theoretical)	※1	cm^3	333	412	498	471	570	678	617	735	862	791	929	1077	471	570	678	617	735	862	791	929	1077	1068	1239	1618
		Injection weight (PS)	※2	g	304	375	454	428	518	617	562	668	785	720	845	980	428	518	617	562	668	785	720	845	980	972	1127	1472
		Injection pressure	※3	MPa	247	200	165	218	180	151	214	180	153	210	180	155	218	180	151	214	180	153	210	180	155	210	180	138
		Holding pressure	※3	MPa	197	160	132	194	160	134	190	160	136	187	160	138	194	160	134	190	160	136	187	160	138	190	162	124
		Injection speed	※4	mm/s		250			250			250			250			250			250			250			250	
		Injection rate (PS)		g/s	347	428	518	428	518	617	518	617	724	617	724	840	428	518	617	518	617	724	617	724	840	723	839	1097
	High-speed Specification	Injection Unit		-	830hs			1100hs			1400hs			1700hs			1100hs			1400hs			1700hs					
		Screw	Type	-	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C			
			Diameter	mm	45	50	55	50	55	60	55	60	65	60	65	70	50	55	60	55	60	65	60	65	70			
		Injection stroke		mm	210	210	210	240	240	240	260	260	260	280	280	280	240	240	240	260	260	260	280	280	280			
		Injection volume (theoretical)	※1	cm^3	333	412	498	471	570	678	617	735	862	791	929	1077	471	570	678	617	735	862	791	929	1077			
		Injection weight (PS)	※2	g	304	375	454	428	518	617	562	668	785	720	845	980	428	518	617	562	668	785	720	845	980			
		Injection pressure	※3	MPa	247	200	165	218	180	151	214	180	153	210	180	155	218	180	151	214	180	153	210	180	155			
		Holding pressure	※3	MPa	197	160	132	194	160	134	190	160	136	187	160	138	194	160	134	190	160	136	187	160	138			
		Injection speed	※4	mm/s		350			350			350			350			350			350			350					
		Injection rate (PS)		g/s	486	600	726	600	726	864	726	864	1014	864	1014	1176	600	726	864	726	864	1014	864	1014	1176			
	Screw Rotating Speed			min^{-1}	320			320			300			260			320			300			260			240		
	Plasticizing rate (GPPS)		※5	g/s	35	46	60	52	64	75	54	64	71	57	68	72	52	64	75	54	64	71	57	68	72	62	71	80
	Nozzle Stroke			mm	450			520			520			560			520			520			560			610		
	Nozzle contact force			kN	49			54			54			54			54			54			54			85		
	Temp. Zones	Nozzle/Heating Cylinder		-	6			6			6			6			6			6			6			7		
		Hopper Base		-	1			1			1			1			1			1			1			1		
	Heating power			kW	20.2			23			29.3			33.1			23			29.3			33.1			36.1		
Clamping Unit	Clamping way			-	Twin toggle												Twin toggle											
	Clamping force			kN	3000												3600											
	Dist. Between tie-bars			mm	730×730												820×820											
	Size of mold platen			mm	1000×1000												1140×1140											
	Mold dimension min.		※6	mm	470×470												540×540											
	Mold opening stroke			mm	600												730											
	Mold height (min./max.)			mm	280/650												320/710											
	Total daylight max.			mm	1250												1440											
	Ejector stroke			mm	160												160											
	Ejector force		※7	kN	58.8												58.8											
Others	Connection power		※8	kW/A	830:34/58 830h:38/65 830hs:58/98			1100:44/74 1100h:44/74 1100hs:69/116			1400:52/87 1400h:65/109 1400hs:69/115			1700:58/98 1700h:74/125 1700hs:83/139			1100:44/74 1100h:44/74 1100hs:69/116			1400:52/87 1400h:65/109 1400hs:69/115			1700:58/98 1700h:74/125 1700hs:83/139			2250:65/109 2250h:89/150		
	Supply voltage		※9	-	AC460V/3P/60Hz												AC460V/3P/60Hz											
	Machine weight			ton	13.15			13.3			13.3			14			16.08			16.08			16.78			18.36		
	Machine dimension (L×W×H)	Length		m	6.67			6.95			7.03			7.51			7.27			7.35			7.83			7.57		
		Width		m	1.9			1.9			1.9			1.9			1.99			1.99			1.99			1.99		
		Height	※10	m	2.42			2.42			2.42			2.42			2.48			2.48			2.48			2.48		
	Hopper capacity (OP)			L	50			50			50			50			50			50			50			50		
	Cooling water dosage (min.)		※11	L/min	6.7			6.7			6.7			6.7			6.7			6.7			6.7			10		

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※1.Injection capacity is shown by "maximum injection pressure"×"calculated injection volume".

※2.Calculated injection volume is determined by multiplying screw cross sectional area and screw stroke.

※3.Injection weight is for polystyrene and 92% of calculated injection volume.

※4.Maximum injection pressure and maximum holding pressure may be limited by molding conditions.

※5.Plasticizing capacity is for polystyrene.

※6.Do not use a mold that is smaller than this size to prevent machine damage.

※7.Ejector force shown is theoretical value.

※8.Total machine power does not include ancillary equipment power. If an equipment shall be installed to the machine, their power should be added to the machine power.

※9.Voltage fluctuation should not exceed more than 10% or fail 10% less than rated power. Voltage should always be the rated value and fluctuation should be allowed only for a short time.

※10.The machine height does not include leveling pads or signal tower.

※11.Water is used for hopper base cooling below 28°C and it should maintain it's pressure between 0.4~0.6Mpa.

MV Series Specifications

Item			Unit	MV4500												MV5500											
Injection Unit	LP Specification	Injection Unit		-	1400			1700			2250			3350			1400			1700			2250			3350		
		Screw	Type	-	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
			Diameter	mm	55	60	65	60	65	70	65	70	80	75	80	90	55	60	65	60	65	70	65	70	80	75	80	90
		Injection stroke		mm	260	260	260	280	280	280	322	322	322	370	370	370	260	260	260	280	280	280	322	322	322	370	370	370
		Injection volume (theoretical)	※1	cm^3	617	735	862	791	929	1077	1068	1239	1618	1634	1859	2353	617	735	862	791	929	1077	1068	1239	1618	1634	1859	2353
		Injection weight (PS)	※2	g	562	668	785	720	845	980	972	1127	1472	1487	1692	2141	562	668	785	720	845	980	972	1127	1472	1487	1692	2141
		Injection pressure	※3	MPa	214	180	153	210	180	155	210	180	138	205	180	142	214	180	153	210	180	155	210	180	138	205	180	142
		Holding pressure	※3	MPa	190	160	136	187	160	138	190	162	124	185	162	128	190	160	136	187	160	138	190	162	124	185	162	128
		Injection speed	※4	mm/s	160			160			160			160			160			160			160			160		
		Injection rate (PS)		g/s	332	395	463	395	463	537	463	537	702	617	702	889	332	395	463	395	463	537	463	537	702	617	702	889
	Standard Style	Injection Unit		-	1400h			1700h			2250h						1400h			1700h			2250h					
		Screw	Type	-	A	B	C	A	B	C	A	B	C				A	B	C	A	B	C	A	B	C			
			Diameter	mm	55	60	65	60	65	70	65	70	80				55	60	65	60	65	70	65	70	80			
		Injection stroke		mm	260	260	260	280	280	280	322	322	322				260	260	260	280	280	280	322	322	322			
		Injection volume (theoretical)	※1	cm^3	617	735	862	791	929	1077	1068	1239	1618				617	735	862	791	929	1077	1068	1239	1618			
		Injection weight (PS)	※2	g	562	668	785	720	845	980	972	1127	1472				562	668	785	720	845	980	972	1127	1472			
		Injection pressure	※3	MPa	214	180	153	210	180	155	210	180	138				214	180	153	210	180	155	210	180	138			
		Holding pressure	※3	MPa	190	160	136	187	160	138	190	162	124				190	160	136	187	160	138	190	162	124			
		Injection speed	※4	mm/s	250			250			250						250			250			250					
		Injection rate (PS)		g/s	518	617	724	617	724	840	723	839	1097				518	617	724	617	724	840	723	839	1097			
	High-speed Specification	Injection Unit		-	1400hs			1700hs									1400hs			1700hs								
		Screw	Type	-	A	B	C	A	B	C							A	B	C	A	B	C						
			Diameter	mm	55	60	65	60	65	70							55	60	65	60	65	70						
		Injection stroke		mm	260	260	260	280	280	280							260	260	260	280	280	280						
		Injection volume (theoretical)	※1	cm^3	617	735	862	791	929	1077							617	735	862	791	929	1077						
		Injection weight (PS)	※2	g	562	668	785	720	845	980							562	668	785	720	845	980						
		Injection pressure	※3	MPa	214	180	153	210	180	155							214	180	153	210	180	155						
		Holding pressure	※3	MPa	190	160	136	187	160	138							190	160	136	187	160	138						
		Injection speed	※4	mm/s	350			350									350			350								
		Injection rate (PS)		g/s	726	864	1014	864	1014	1176							726	864	1014	864	1014	1176						
	Screw Rotating Speed			min^{-1}	300			260			240			220			300			260			240			220		
	Plasticizing rate (GPPS)		※5	g/s	54	64	71	57	68	72	62	71	88	70	92	105	54	64	71	57	68	72	62	71	88	70	92	105
	Nozzle Stroke			mm	520			560			610			610			560			560			610			720		
	Nozzle contact force			kN	54			54			85			85			54			54			85			85		
	Temp. Zones	Nozzle/Heating Cylinder		-	6			6			7			7			6			6			7			7		
		Hopper Base		-	1			1			1			1			1			1			1			1		
	Heating power			kW	29.3			33.1			36.1			42.6			29.3			33.1			36.1			42.6		
Clamping Unit	Clamping way			-	Twin toggle												Twin toggle											
	Clamping force			kN	4500												5500											
	Dist. Between tie-bars			mm	910×910												970×970											
	Size of mold platen			mm	1250×1250												1320×1320											
	Mold dimension min.		※6	mm	590×590												630×630											
	Mold opening stroke			mm	800												900											
	Mold height (min./max.)			mm	350/810												400/880											
	Total daylight max.			mm	1610												1780											
	Ejector stroke			mm	180												180											
	Ejector force		※7	kN	98												137.2											
Others	Connection power		※8	kW/A	1400:52/87 1400h:65/109 1400hs:69/115			1700:58/98 1700h:74/125 1700hs:83/139			2250:65/109 2250h:89/150			83/138			1400:52/87 1400h:65/109 1400hs:69/115			1700:58/98 1700h:74/125 1700hs:83/139			2250:65/109 2250h:89/150			83/138		
	Supply voltage		※9	-	AC460V/3P/60Hz												AC460V/3P/60Hz											
	Machine weight			ton	21.8			22.5			24.08			24.17			25.74			26.44			28			28.11		
	Machine dimension (L×W×H)	Length		m	8			8.22			8			8.22			8.48			8.62			8.48			8.74		
		Width		m	2.15			2.15			2.15			2.15			2.29			2.29			2.29			2.29		
		Height	※10	m	2.51			2.51			2.51			2.51			2.5			2.5			2.5			2.5		
	Hopper capacity (OP)			L	50			50			50			100			50			50			50			100		
	Cooling water dosage (min.)		※11	L/min	6.7			6.7			10			10			6.7			6.7			10			10		

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※1.Injection capacity is shown by "maximum injection pressure"×"calculated injection volume".

※2.Calculated injection volume is determined by multiplying screw cross sectional area and screw stroke.

※3.Injection weight is for polystyrene and 92% of calculated injection volume.

※4.Maximum injection pressure and maximum holding pressure may be limited by molding conditions.

※5.Plasticizing capacity is for polystyrene.

※6.Do not use a mold that is smaller than this size to prevent machine damage.

※7.Ejector force shown is theoretical value.

※8.Total machine power does not include ancillary equipment power. If an equipment shall be installed to the machine, their power should be added to the machine power.

※9.Voltage fluctuation should not exceed more than 10% or fail 10% less than rated power. Voltage should always be the rated value and fluctuation should be allowed only for a short time.

※10.The machine height does not include leveling pads or signal tower.

※11.Water is used for hopper base cooling below 28°C and it should maintain it's pressure between 0.4~0.6Mpa.

MV Series Specifications

Item				Unit	MV6500											
Injection Unit	LP Specification	Injection Unit		-	1700			2250			3350			5200		
		Screw	Type	-	A	B	C	A	B	C	A	B	C	A	B	C
			Diameter	mm	60	65	70	65	70	80	75	80	90	80	90	100
		Injection stroke		mm	280	280	280	322	322	322	370	370	370	450	450	450
		Injection volume (theoretical)	※1	cm^3	791	929	1077	1068	1239	1618	1634	1859	2353	2261	2862	3534
		Injection weight (PS)	※2	g	720	845	980	972	1127	1472	1487	1692	2141	2058	2605	3216
		Injection pressure	※3	MPa	210	180	155	210	180	138	205	180	142	227	180	145
		Holding pressure	※3	MPa	187	160	138	190	162	124	185	162	128	204	162	131
		Injection speed	※4	mm/s	160			160			160			160		
		Injection rate (PS)		g/s	395	463	537	463	537	702	617	702	889	702	889	1097
	Standard Style	Injection Unit		-	1700h			2250h								
		Screw	Type	-	A	B	C	A	B	C						
			Diameter	mm	60	65	70	65	70	80						
		Injection stroke		mm	280	280	280	322	322	322						
		Injection volume (theoretical)	※1	cm^3	791	929	1077	1068	1239	1618						
		Injection weight (PS)	※2	g	720	845	980	972	1127	1472						
		Injection pressure	※3	MPa	210	180	155	210	180	138						
		Holding pressure	※3	MPa	187	160	138	190	162	124						
		Injection speed	※4	mm/s	250			250								
		Injection rate (PS)		g/s	617	724	840	723	839	1097						
	High-speed Specification	Injection Unit		-	1700hs											
		Screw	Type	-	A	B	C									
			Diameter	mm	60	65	70									
		Injection stroke		mm	280	280	280									
		Injection volume (theoretical)	※1	cm^3	791	929	1077									
		Injection weight (PS)	※2	g	720	845	980									
		Injection pressure	※3	MPa	210	180	155									
		Holding pressure	※3	MPa	187	160	138									
		Injection speed	※4	mm/s	350											
		Injection rate (PS)		g/s	864	1014	1176									
	Screw Rotating Speed			min^{-1}	260			240			220			190		
	Plasticizing rate (GPPS)		※5	g/s	57	68	72	62	71	88	70	92	105	85	107	131
	Nozzle Stroke			mm	560			610			720			720		
	Nozzle contact force			kN	54			85			85			85		
	Temp. Zones	Nozzle/Heating Cylinder		-	6			7			7			6		
		Hopper Base		-	1			1			1			1		
	Heating power			kW	33.1			36.1			42.6			54.3		
Clamping Unit	Clamping way			-	Twin toggle											
	Clamping force			kN	6500											
	Dist. Between tie-bars			mm	1080×1080											
	Size of mold platen			mm	1460×1460											
	Mold dimension min.		※6	mm	700×700											
	Mold opening stroke			mm	1000											
	Mold height (min./max.)			mm	420/1000											
	Total daylight max.			mm	2000											
	Ejector stroke			mm	200											
	Ejector force		※7	kN	196											
Others	Connection power		※8	kW/A	1700:58/98 1700h:74/125 1700hs:83/139			2250:65/109 2250h:89/150			83/138			98/164		
	Supply voltage		※9	-	AC460V/3P/60Hz											
	Machine weight			ton	32.14			33.7			33.8			34.73		
	Machine dimension (L×W×H)	Length		m	9.7			9.7			9.7			9.81		
		Width		m	2.44			2.44			2.44			2.44		
		Height	※10	m	2.7			2.7			2.7			2.7		
	Hopper capacity (OP)			L	50			50			100			100		
	Cooling water dosage (min.)		※11	L/min	6.7			10			10			15.2		

● Above specification is subject to change due to continuous improvement. The mark of this "OP." shows optional specification.

※1.Injection capacity is shown by "maximum injection pressure"×"calculated injection volume".

※2.Calculated injection volume is determined by multiplying screw cross sectional area and screw stroke.

※3.Injection weight is for polystyrene and 92% of calculated injection volume.

※4.Maximum injection pressure and maximum holding pressure may be limited by molding conditions.

※5.Plasticizing capacity is for polystyrene.

※6.Do not use a mold that is smaller than this size to prevent machine damage.

※7.Ejector force shown is theoretical value.

※8.Total machine power does not include ancillary equipment power. If an equipment shall be installed to the machine, their power should be added to the machine power.

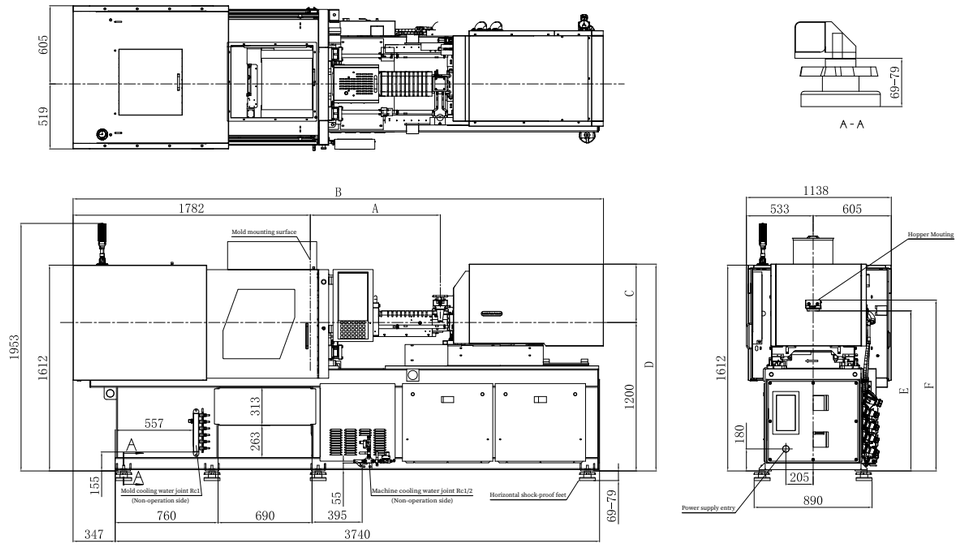
※9.Voltage fluctuation should not exceed more than 10% or fail 10% less than rated power. Voltage should always be the rated value and fluctuation should be allowed only for a short time.

※10.The machine height does not include leveling pads or signal tower.

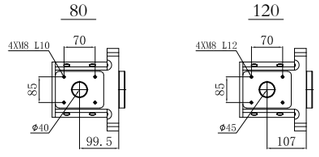
※11.Water is used for hopper base cooling below 28°C and it should maintain it's pressure between 0.4~0.6Mpa.

MV600 Series

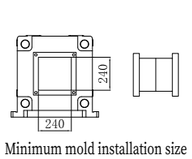
Machine Dimensions

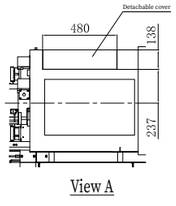


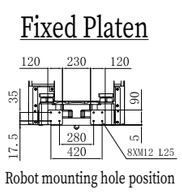
Injection Unit	80			120		
Screw diameter	19	22	26	22	26	30
A	492	579	579	594	691	691
B	3757	3844	3844	3867	3964	3964
C	370			370		
D	1570			1570		
E	1295			1170		
F	1384			1259		

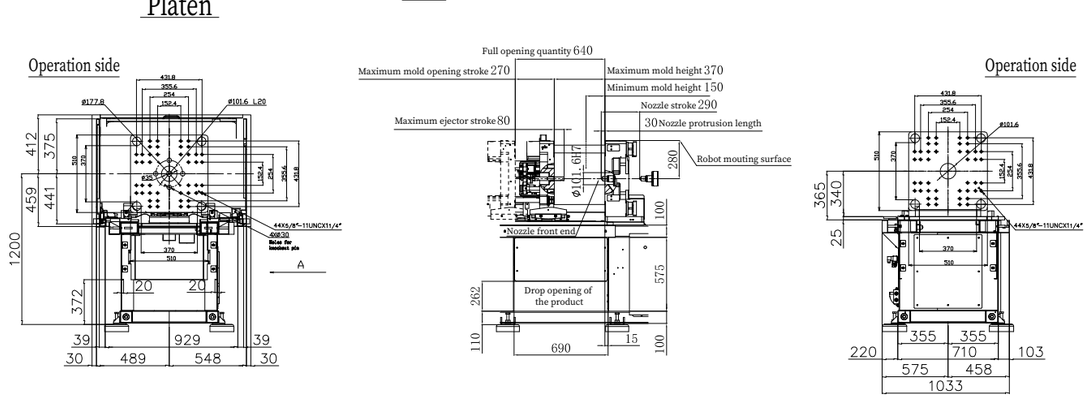


Platen Dimensions



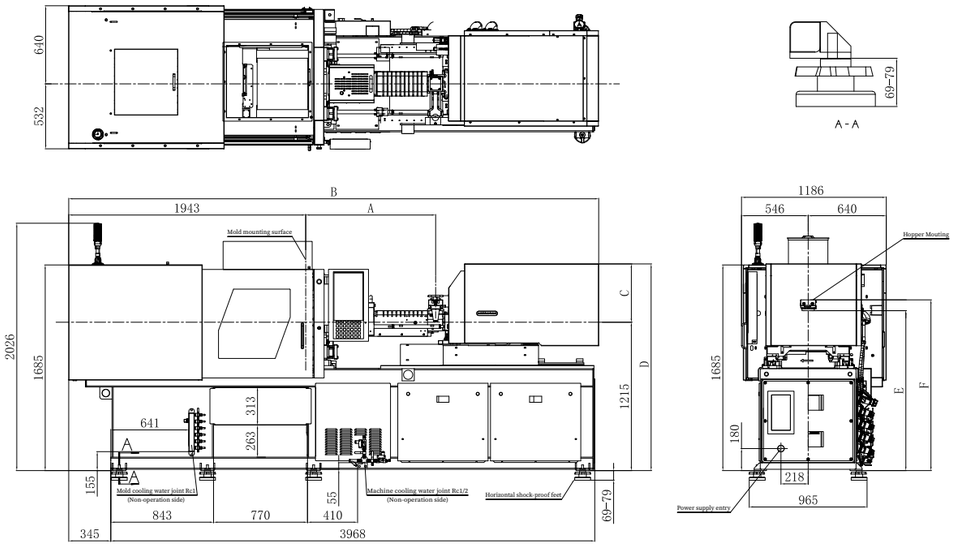




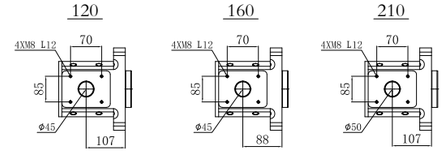


MV900 Series

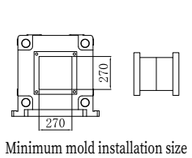
Machine Dimensions

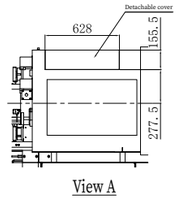


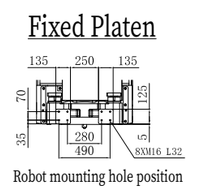
Injection Unit	120			160			210			
Screw diameter	22	26	30	26	28	30	26	28	32	36
A	594	691	691	691	691	691	656	712	792	792
B	4038	4135	4135	4251	4251	4251	4250	4306	4386	4386
C	370			478			478			
D	1585			1693			1693			
E	1310			1310			1310			
F	1399			1399			1399			

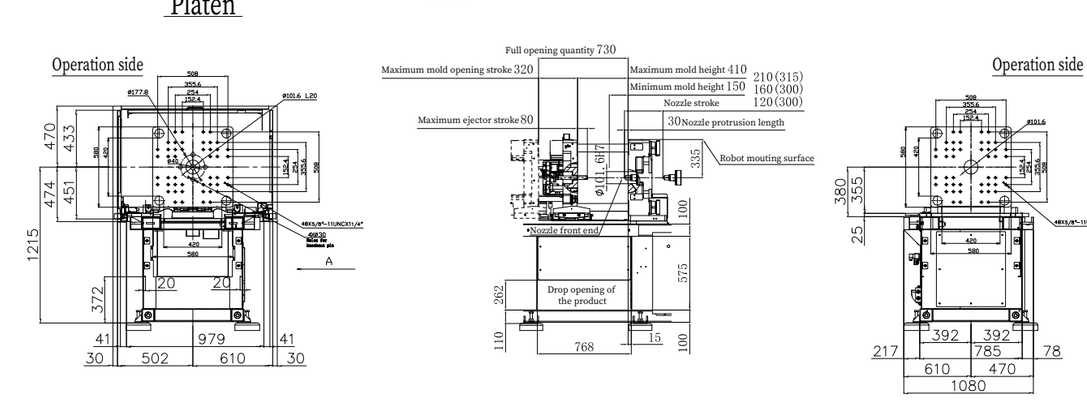


Platen Dimensions



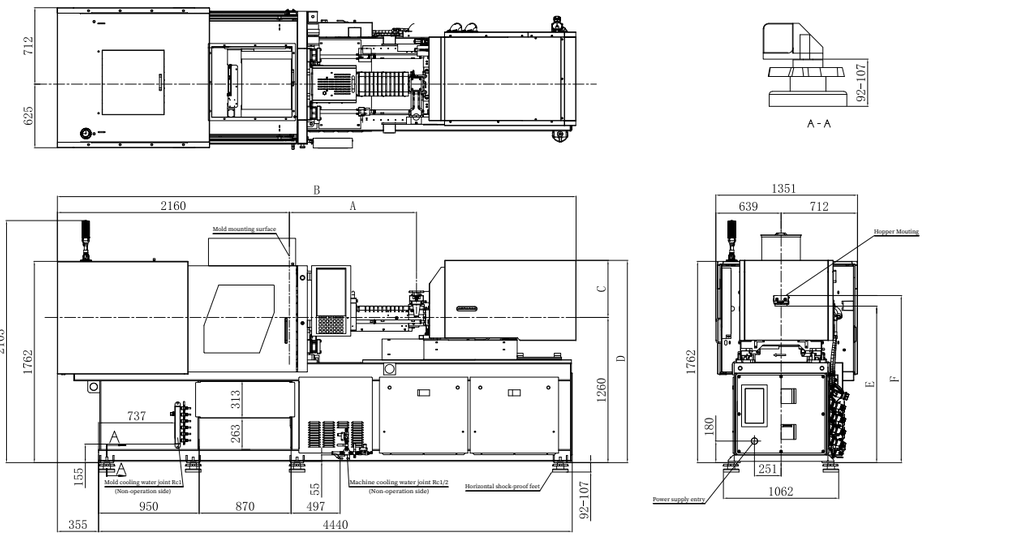




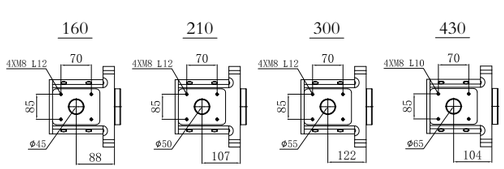


MV1200 Series

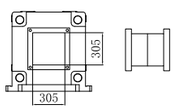
Machine Dimensions



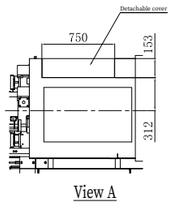
Injection Unit	160			210				300				430		
Screw diameter	26	28	30	26	28	32	36	30	32	36	40	36	40	45
A	691	691	691	656	712	792	792	755	859	859	859	1009	1009	1009
B	4468	4468	4468	4467	4523	4603	4603	4721	4825	4825	4825	5279	5279	5279
C	478			478				493				573		
D	1738			1738				1753				1833		
E	1355			1355				1380				1395		
F	1444			1444				1469				1484		

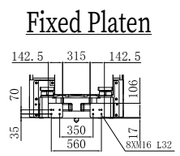


Platen Dimensions



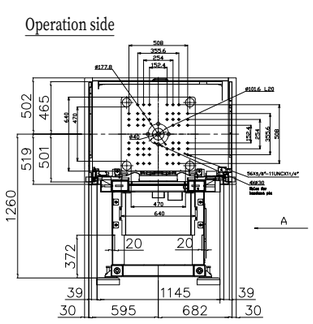
Minimum mold installation size

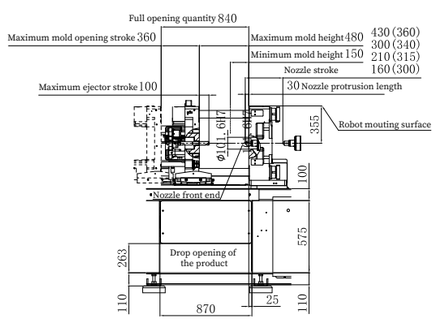


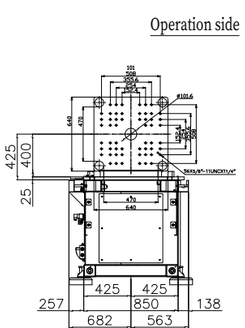


Robot mounting hole position

Platen

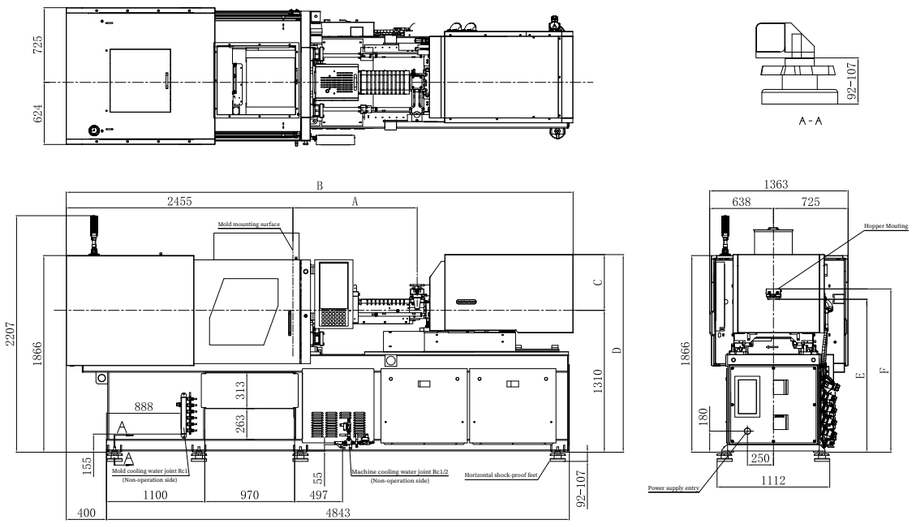




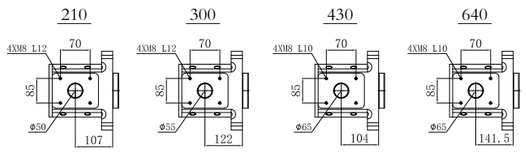


MV1500 Series

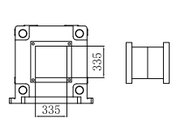
Machine Dimensions



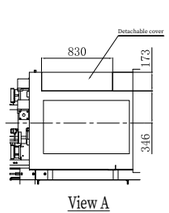
Injection Unit	210				300				430			640		
Screw diameter	26	28	32	36	30	32	36	40	36	40	45	36	40	45
A	656	712	792	792	755	859	859	859	1008	1008	1008	1068	1068	1068
B	4762	4818	4898	4898	5016	5120	5120	5120	5573	5573	5573	5701	5701	5701
C	478				493				573			573		
D	1788				1803				1883			1883		
E	1405				1430				1445			1435		
F	1494				1519				1534			1524		

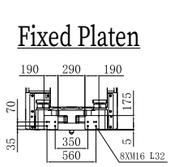


Platen Dimensions



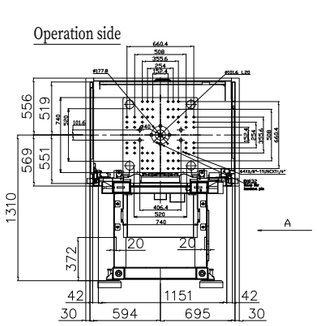
Minimum mold installation size

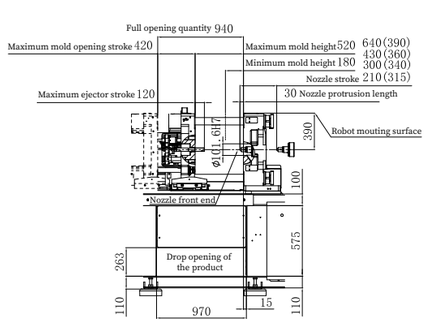


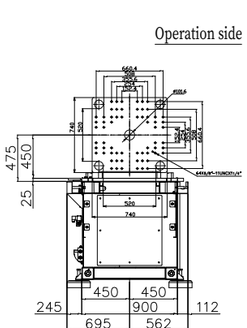


Robot mounting hole position

Platen

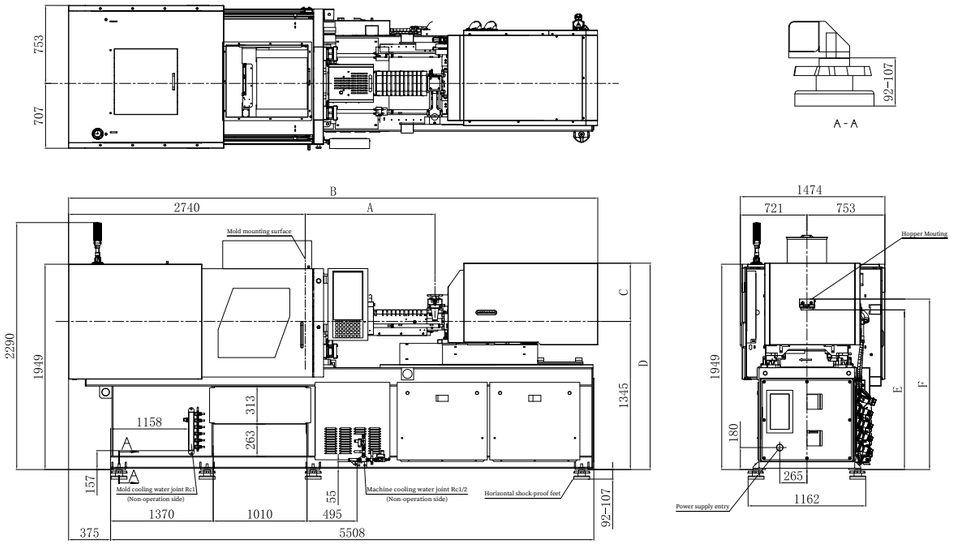






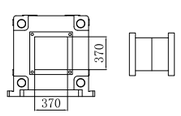
MV1900 Series

Machine Dimensions

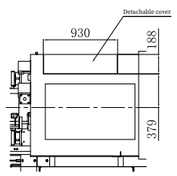


Injection Unit	300				430			640			830		
Screw diameter	30	32	36	40	36	40	45	40	45	50	40	45	55
A	755	859	859	859	1008	1008	1008	1068	1068	1068	1184	1184	1184
B	5321	5425	5425	5425	5888	5888	5888	5986	5986	5986	6302	6302	6302
C	493				573			573			711		
D	1838				1918			1918			2056		
E	1465				1480			1470			1511		
F	1554				1569			1559			1600		

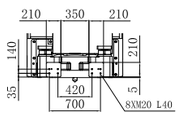
Platen Dimensions



Minimum mold installation size

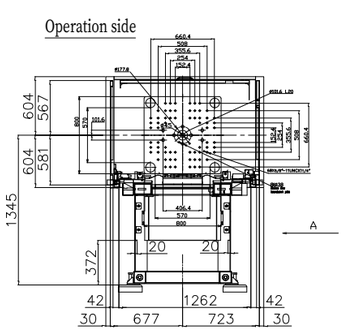


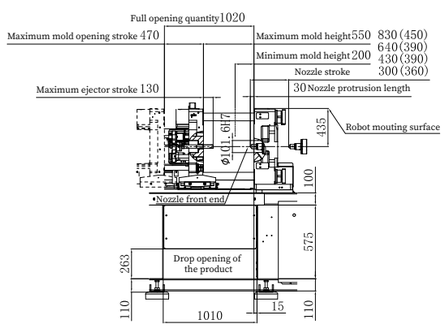
View A

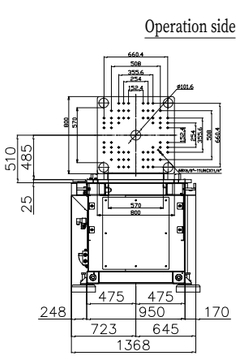


Robot mounting hole position

Platen

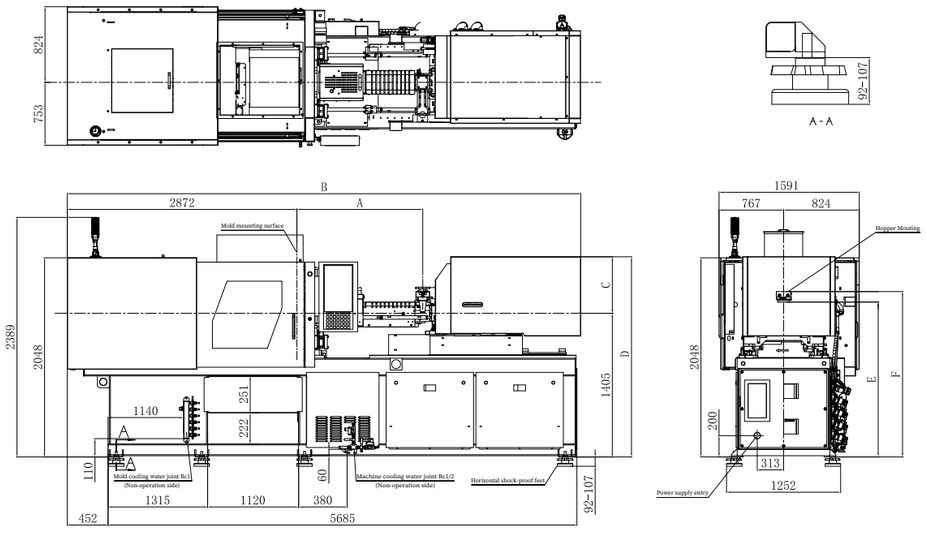




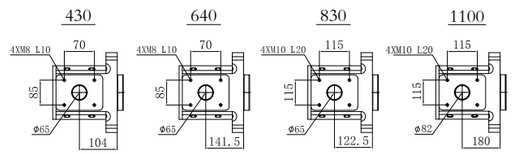


MV2300 Series

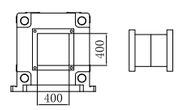
Machine Dimensions



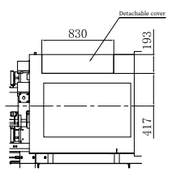
Injection Unit	430			640			830			1100		
Screw diameter	36	40	45	40	45	50	45	50	55	50	55	60
A	1008	1008	1008	1068	1068	1068	1181	1181	1181	1295	1295	1295
B	6020	6020	6020	6128	6128	6128	6431	6431	6431	6707	6707	6707
C	573			573			711			740		
D	1978			1978			2116			2145		
E	1540			1530			1558			1548		
F	1629			1619			1660			1650		



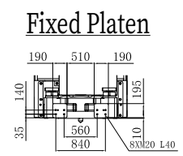
Platen Dimensions



Minimum mold installation size

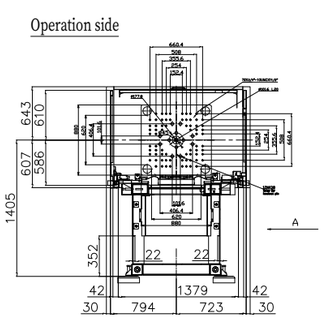


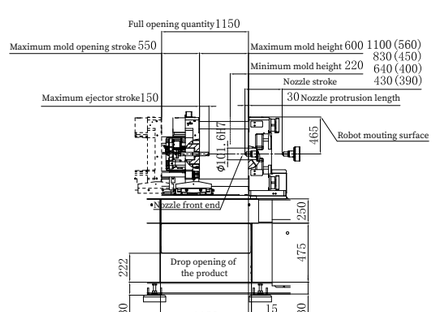
View A

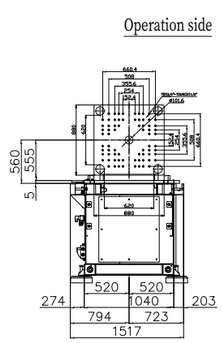


Robot mounting hole position

Platen

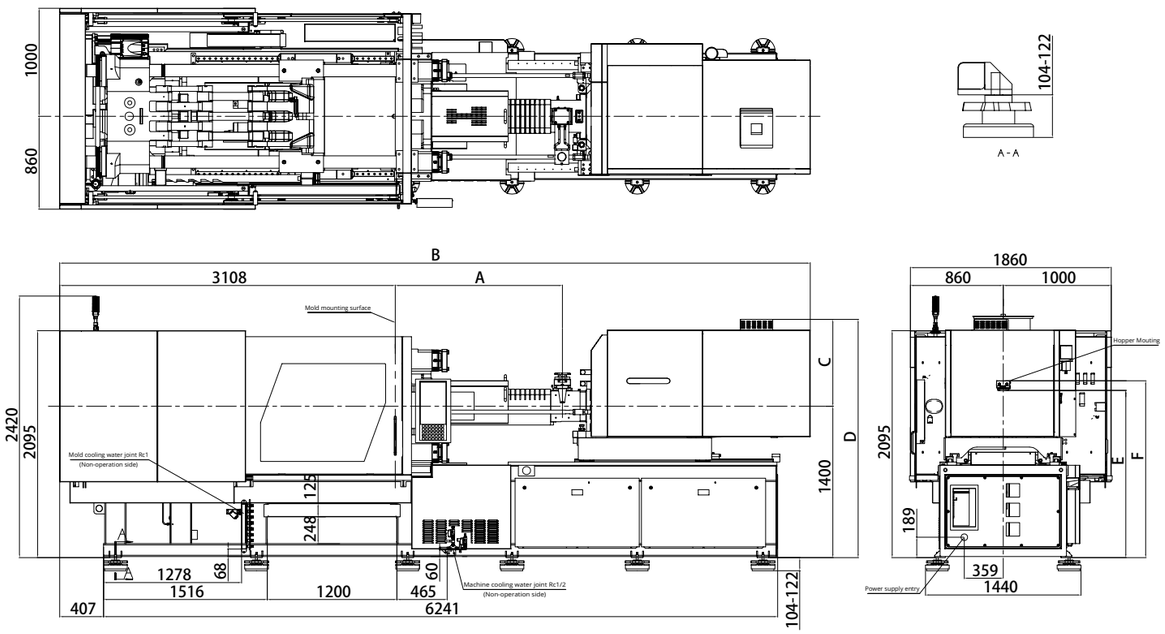




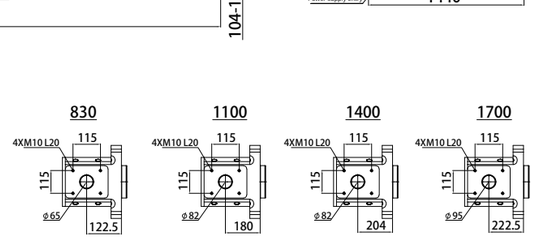


MV3000 系列

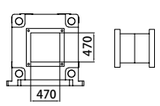
Machine Dimensions



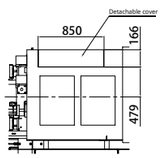
Injection Unit	830			1100			1400			1700		
Screw diameter	45	50	55	50	55	60	55	60	65	60	65	70
A	1181	1181	1181	1295	1295	1295	1383	1383	1383	1543	1543	1543
B	6667	6667	6667	6943	6943	6943	7021	7021	7021	7504	7504	7504
C	711			740			711			803		
D	2111			2140			2111			2203		
E	1553			1543			1543			1548		
F	1655			1645			1645			1650		



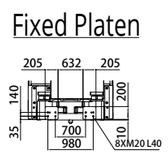
Platen Dimensions



Minimum mold installation size

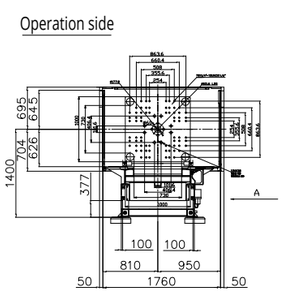


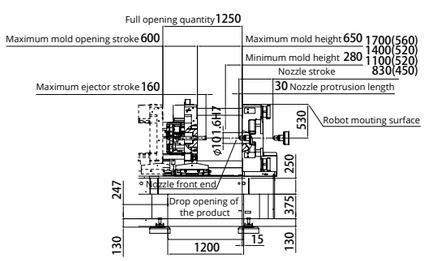
View A

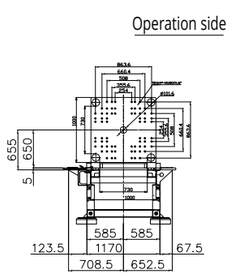


Robot mounting hole position

Platen

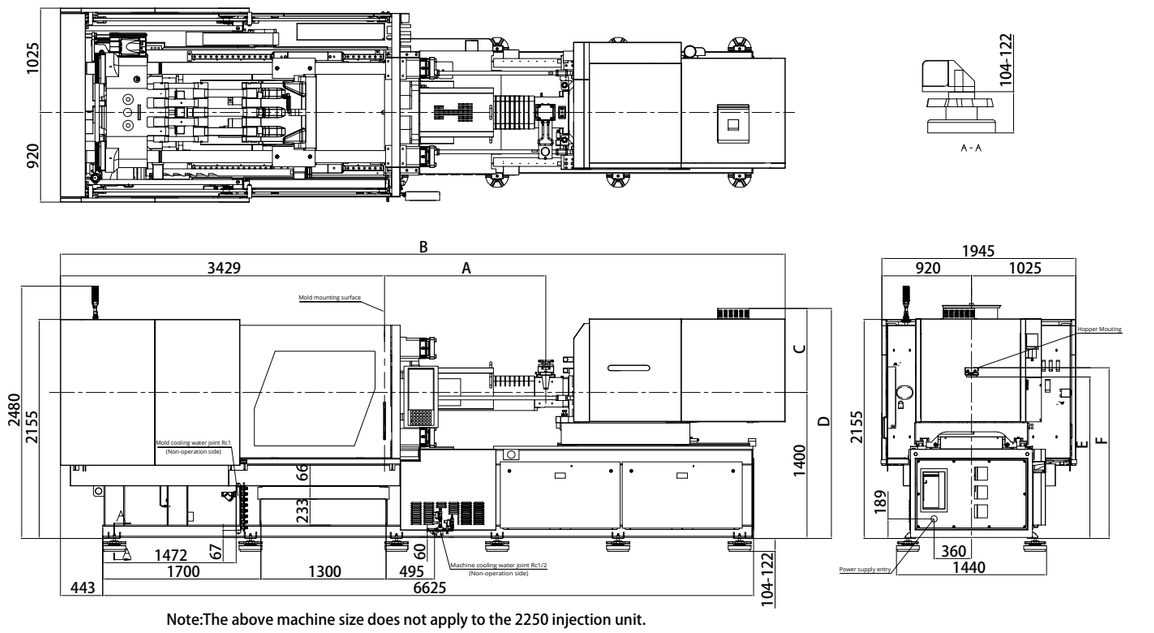






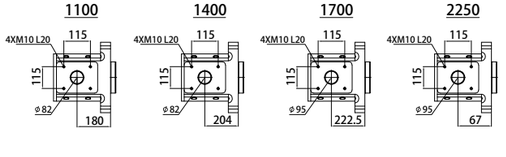
MV3600 系列

Machine Dimensions

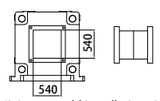


Note:The above machine size does not apply to the 2250 injection unit.

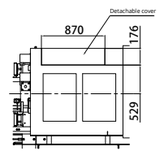
Injection Unit	1100			1400			1700			2250		
Screw diameter	50	55	60	55	60	65	60	65	70	65	70	80
A	1295	1295	1295	1383	1383	1383	1543	1543	1543	1630	1630	1630
B	7264	7264	7264	7342	7342	7342	7825	7825	7825	7560	7560	7560
C	740			711			803			689		
D	2140			2111			2203			2165		
E	1543			1543			1548			1701		
F	1645			1645			1650			1803		



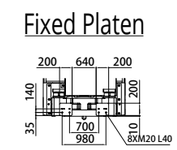
Platen Dimensions



Minimum mold installation size

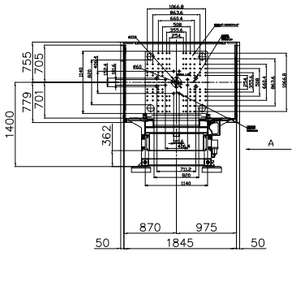


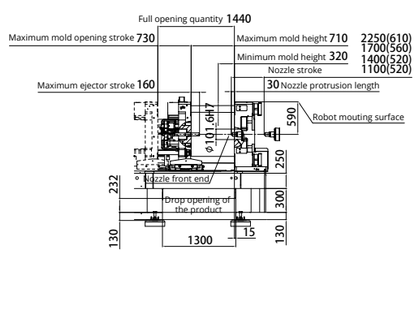
View A

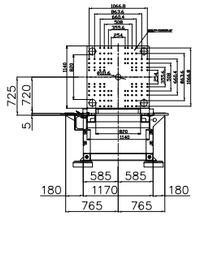


Robot mounting hole position

Platen

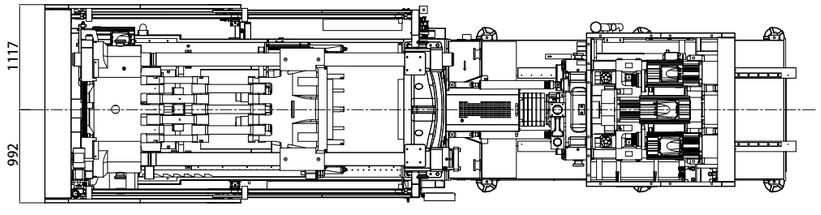


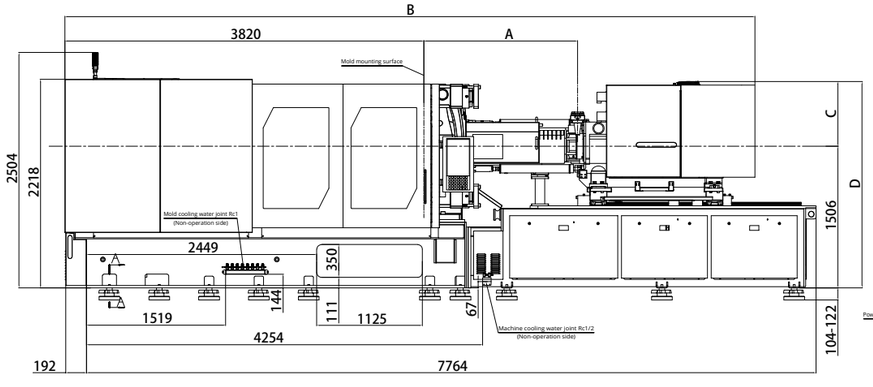


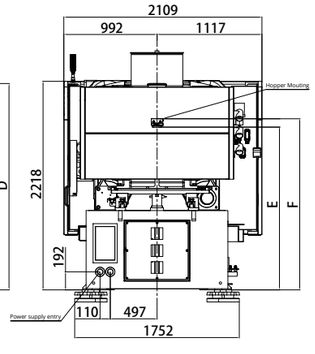


MV4500 Series

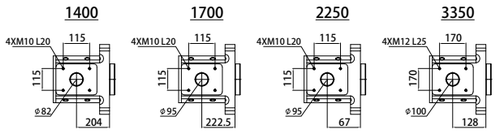
Machine Dimensions



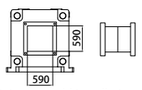




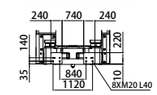
Injection Unit	1400			1700			2250			3350		
Screw diameter	55	60	65	60	65	70	65	70	80	75	80	90
A	1383	1383	1383	1543	1543	1543	1630	1630	1630	1841	1841	1841
B	7733	7733	7733	8216	8216	8216	7950	7950	7950	8219	8219	8219
C	711			803			651			651		
D	2217			2309			2157			2157		
E	1649			1654			1731			1731		
F	1751			1756			1833			1852		



Platen Dimensions

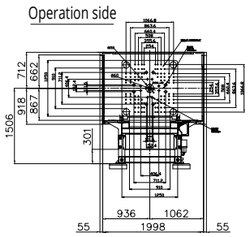


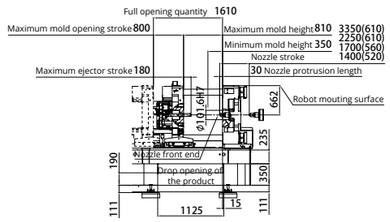
Minimum mold installation size

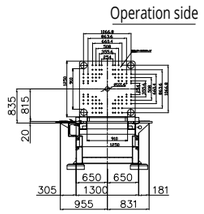


Robot mounting hole position

Platen

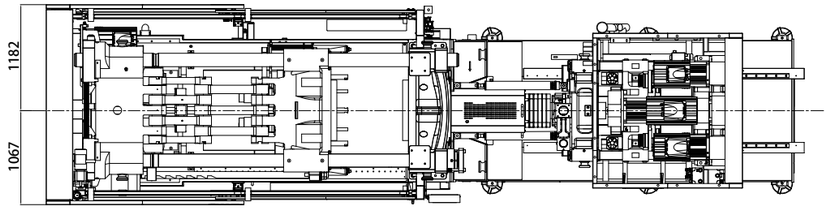


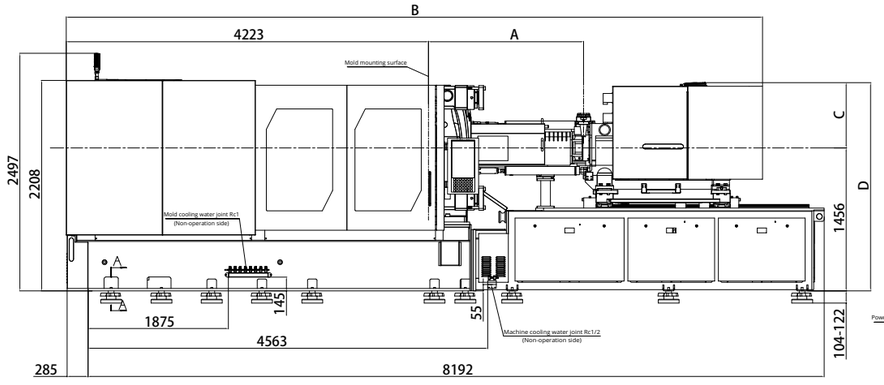


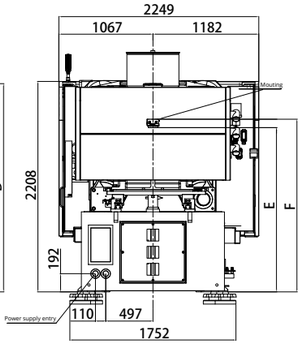


MV5500 Series

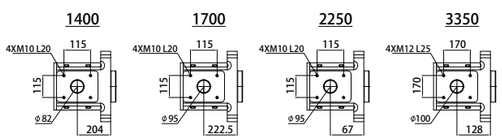
Machine Dimensions



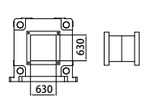




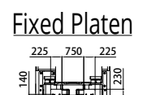
Injection Unit	1400			1700			2250			3350		
Screw diameter	55	60	65	60	65	70	65	70	80	75	80	90
A	1383	1383	1383	1543	1543	1543	1630	1630	1630	1841	1841	1841
B	8176	8176	8176	8619	8619	8619	8353	8353	8353	8732	8732	8732
C	711			803			651			651		
D	2167			2259			2107			2107		
E	1599			1604			1681			1681		
F	1701			1706			1783			1802		



Platen Dimensions

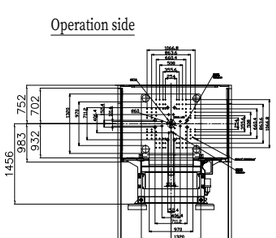


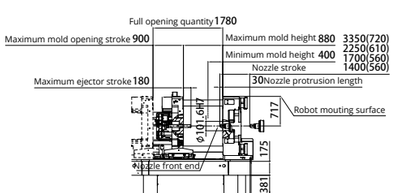
Minimum mold installation size

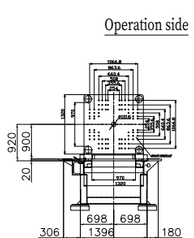


Robot mounting hole position

Platen

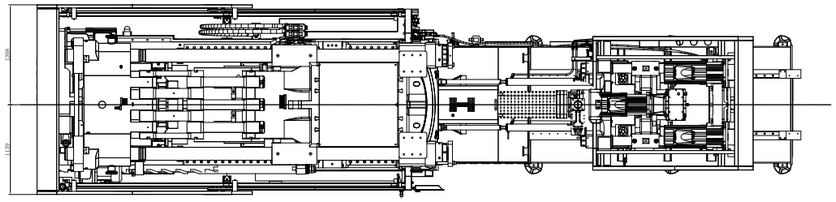


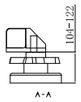


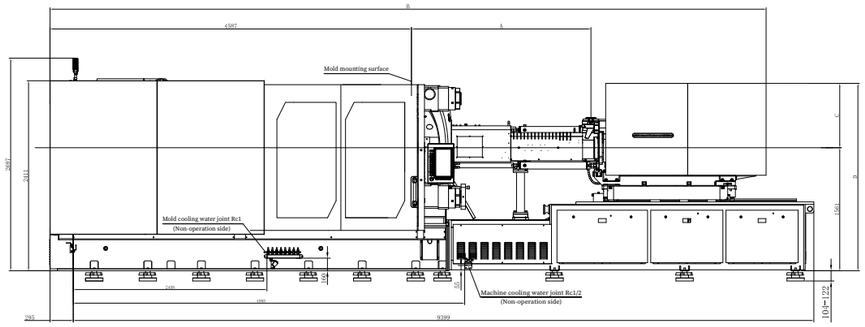


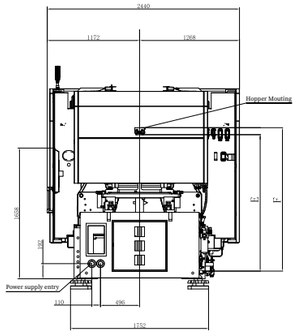
MV6500 Series

Machine Dimensions

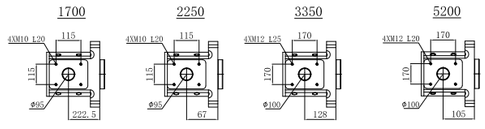




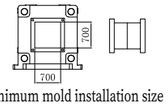




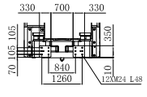
Injection Unit	1700			2250			3350			5200		
Screw diameter	60	65	70	65	70	80	75	80	90	80	90	100
A	1543	1543	1543	1630	1630	1630	1841	1841	1841	2278	2278	2278
B	8983	8983	8983	8717	8717	8717	9096	9096	9096	9808	9808	9808
C	803			651			651			817		
D	2364			2212			2212			2378		
E	1709			1786			1786			1796		
F	1811			1888			1907			1917		



Platen Dimensions



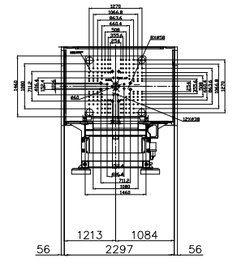
Minimum mold installation size

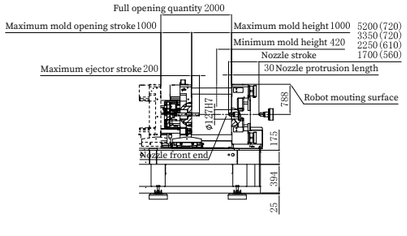


Robot mounting hole position

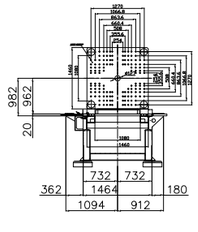
Platen

Operation side





Operation side



MV Series

STANDARD EQUIPMENT LIST

GENERAL EQUIPMENT

1. Basic safety device according to:
   ANSI/PLASTICS B151.1-2017
   NFPA 79:2024
   CSA C22.2 NO. 301:23
2. Colors: RAL9010, RAL5003
3. Power supply: AC 460V/3P/60HZ
4. Sigmatek controller, 15.1 inch touch screen
5. Injection, dosing, platen movement driven independently by servo motor, optical encoder position detection
6. LUBE central lubrication

INJECTION UNIT

1. Abrasion-resistant screw set, general version
2. Open nozzle
3. Barrel heating temperature PID control, SSR
4. Extended nozzle, temperature PID control independently
5. Feeding zone temperature closed-loop control
6. Injection speed 6 steps
7. Speed responding mode adjustable
8. Holding pressure 4 steps
9. Pressure responding mode adjustable
10. V/P switch over methods by position/ time/ pressure combinations
11. Dosing rotation speed 3 steps
12. Back pressure 3 steps
13. HPM over-filling protection function
14. Screw retraction before and/or after dosing
15. 15. Auto purge

CLAMPING UNIT

1. 5-point twin toggle mechanism
2. Center pressing platen
3. Clamping force settable at control panel
4. Automatic mold-height adjustment
5. Platen moving speed 6 steps
6. AI mold protection
7. Clamping force pre-release
8. Ejector speed 3 steps
9. Ejector pressure 3 steps
10. Multi ejection function
11. Ejection parallel to mold opening

FUNCTIONS & CONTROLS

1. Multi-language available (Chinese, German, English, Japanese etc.)
2. Metric/Imperial unit selectable
3. Dosing parallel to mold opening
4. Injection compression
5. Production assistant device function
6. Maintenance alert
7. 5000 cycles process data recording
8. Amendment report
9. Alarm record
10. Quality control function
11. Mold profile data memory (up to 200 sets)
12. 2 USB interface
13. USB printer interface
14. Injection speed & pressure curve
15. 1 free programmable I/O
16. Mold ejector protection interface
17. EUROMAP 12 interface for handling device
18. 3 color alarm lamp (red/yellow/green)

OTHERS

1. Tool kit & spare parts package
2. Leveling pads
3. Documents with machine
4. Operating manual