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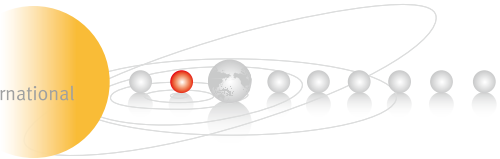
Zhafir Zeres Series



ZERES

Specifications / International
400-3600kN

Zhafir Partner:



Technical data **ZE400**

CLAMPING UNIT		ZE400	
Clamping force	kN	400	
Mold opening stroke	mm	235	
Mold height min	mm	150	
Mold height max	mm	320	
Max. daylight	mm	555	
Dist. between tie bars (H×V)	mm	320×280	
Min. mold dimension	mm	205×180	
Ejector stroke	mm	60	
Ejector force	kN	9.8	
Size of mold platen (H×V)	mm	462×422	

		A	B	A	B	C
Screw diameter	mm	16	19	19	22	26
Screw L/D ratio	L/D	21	20	20	20	17
Injection volume (theoretical)	cm ³	12	17	21	36	50
Injection weight (PS)	g	10.9	15.4	19.1	32.8	45.5
Screw speed	rpm	400		400		
Plasticizing rate (PS)	g/s	2.5	3.8	3.8	6.0	8.8
Nozzle contact force	kN	9.8		9.8		
Heating power	kW	4.3	4.6	4.4	5.6	5.6

INJECTION UNIT		50		80		
Injection speed	mm/s	200		200		
Injection rate (PS)	g/s	35	49	49	66	92
Injection pressure	MPa	280	260	260	220	157
	bar	2800	2600	2600	2200	1570
Holding pressure	MPa	234	198	208	175	125
	bar	2340	1980	2080	1750	1250

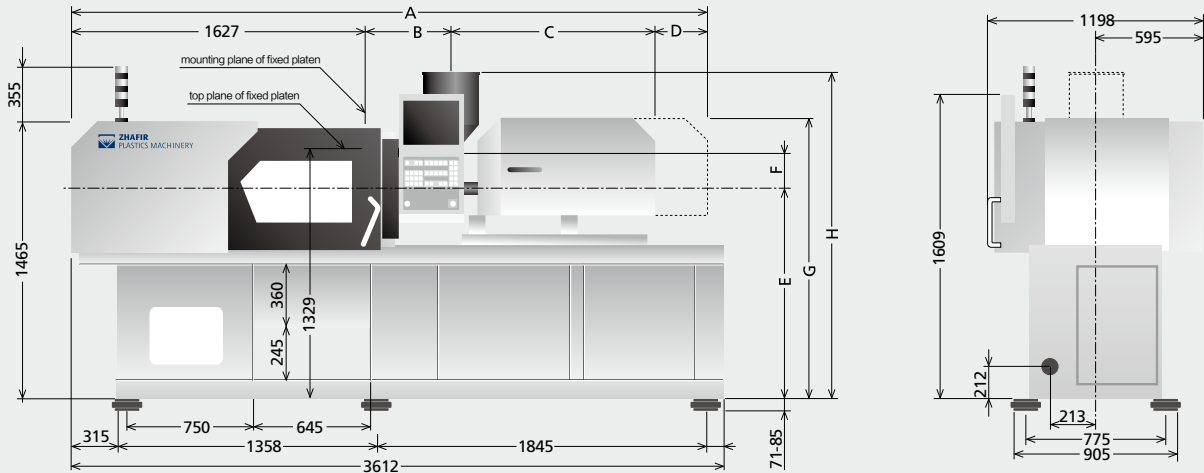
INJECTION UNIT		50h		80h		
Injection speed	mm/s	350		350		
Injection rate (PS)	g/s	61	86	86	116	162
Injection pressure	MPa	280	260	260	220	157
	bar	2800	2600	2600	2200	1570
Holding pressure	MPa	234	198	208	175	125
	bar	2340	1980	2080	1750	1250

OTHERS		50:8/13 50h:12/20		80:10/17 80h:15/26	
Connection power	kW/A				
Pressure	MPa	14		14	
Flow	l/min	23		23	
Oil tank	l	45		45	
Hopper capacity	l	15		15	
Machine dimension	m	3.7×1.2×1.9		3.7×1.2×1.9	
Machine weight	t	2.5		2.5	

We reserve the right to make changes as a result of further technical advantages.

Machine dimensions

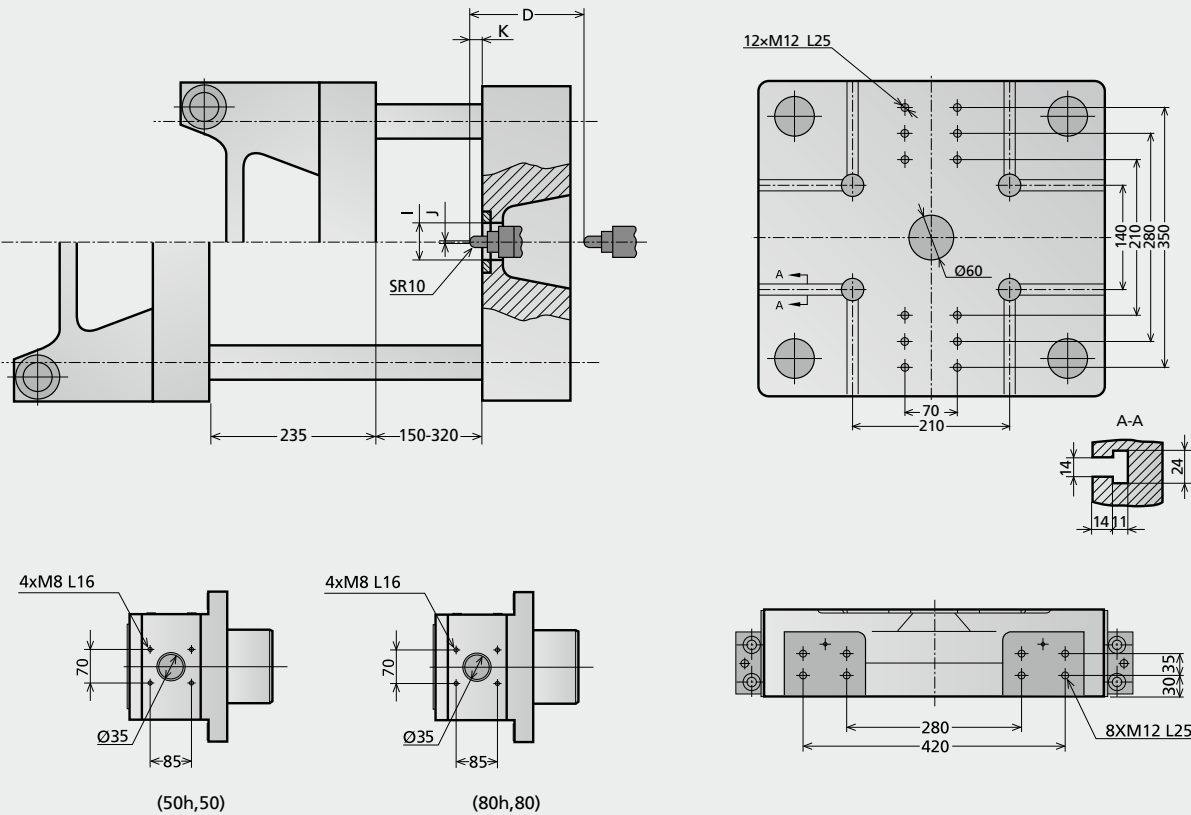
unit: mm



INJECTION UNIT	A	B	C	D	E	F	G	H	I	J	K
80,80h	3566	477	1172	290	1112	184	1510	1745	Ø100	Ø2.2	50
50,50h	3475	424	1134	290	1112	184	1510	1745	Ø100	Ø2	45

Platen dimensions

unit: mm



Technical data ZE600

CLAMPING UNIT

		ZE600
Clamping force	kN	600
Mold opening stroke	mm	270
Mold height min	mm	150
Mold height max	mm	370
Max. daylight	mm	640
Dist. between tie bars (H×V)	mm	370×320
Min. mold dimension	mm	240×205
Ejector stroke	mm	70
Ejector force	kN	19.6
Size of mold platen (H×V)	mm	546×500

		A	B	C	A	B	C
Screw diameter	mm	19	22	26	22	26	30
Screw L/D ratio	L/D	20	20	17	20	20	17.4
Injection volume (theoretical)	cm ³	21	36	50	36	58	77
Injection weight (PS)	g	19.1	32.8	45.5	32.8	52	70
Screw speed	rpm		400			400	
Plasticizing rate (PS)	g/s	3.8	6.0	8.8	6.0	8.8	13
Nozzle contact force	kN		14.7			14.7	
Heating power	kW	4.4	5.6	5.6	6.0	7.8	7.8
INJECTION UNIT			80			120	
Injection speed	mm/s		200			200	
Injection rate (PS)	g/s	49	66	92	66	92	123
Injection pressure	MPa	260	220	157	280	220	165
	bar	2600	2200	1570	2800	2200	1650
Holding pressure	MPa	208	175	125	220	160	120
	bar	2080	1750	1250	2200	1600	1200
INJECTION UNIT			80h			120h	
Injection speed	mm/s		350			350	
Injection rate (PS)	g/s	86	116	162	116	162	216
Injection pressure	MPa	260	220	157	280	220	165
	bar	2600	2200	1570	2800	2200	1650
Holding pressure	MPa	208	175	125	220	160	120
	bar	2080	1750	1250	2200	1600	1200

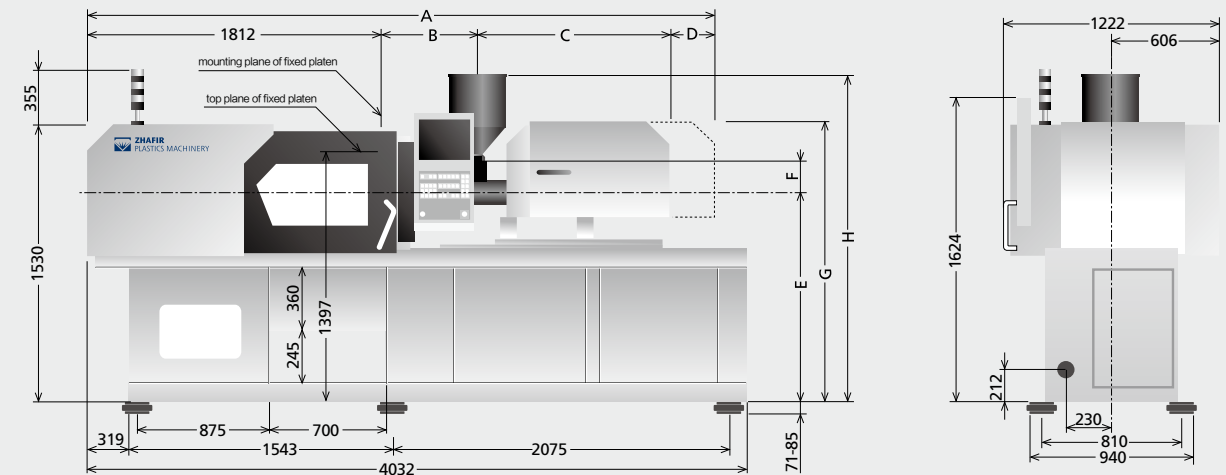
OTHERS

Connection power	kW/A	80:10/17 80h:15/26	120:14/24 120h:21/35
Pressure	MPa	14	14
Flow	l/min	31	31
Oil tank	l	58	58
Hopper capacity	l	15	15
Machine dimension	m	4.1×1.3×1.9	4.1×1.3×1.9
Machine weight	t	2.8	3

We reserve the right to make changes as a result of further technical advantages.

Machine dimensions

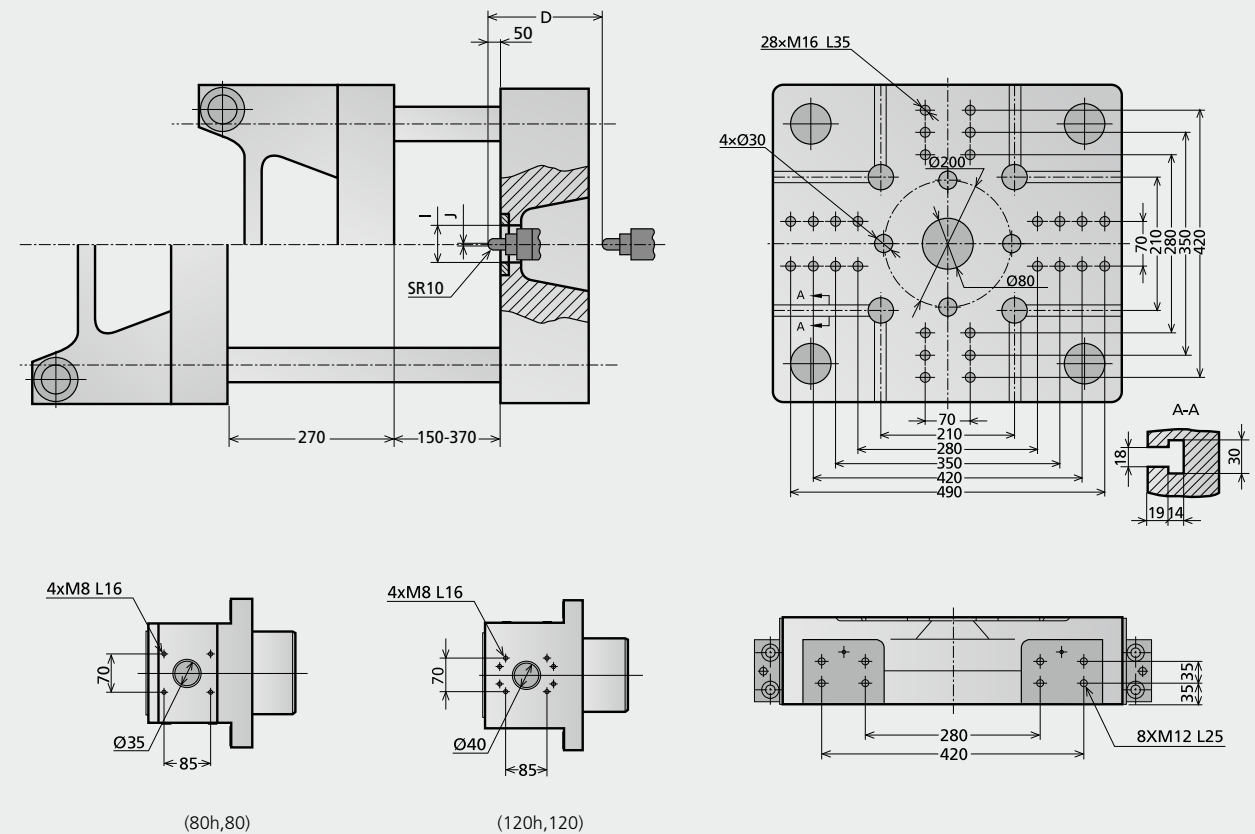
unit: mm



INJECTION UNIT	A	B	C	D	E	F	G	H	I	J
120,120h	3922	579	1241	290	1142	184	1546	1850	Ø100	Ø2.5
80,80h	3751	477	1172	290	1142	184	1539	1776	Ø100	Ø2.2

Platen dimensions

unit: mm



Technical data ZE900

CLAMPING UNIT

		ZE900
Clamping force	kN	900
Mold opening stroke	mm	320
Mold height min	mm	150
Mold height max	mm	410
Max. daylight	mm	730
Dist. between tie bars (H×V)	mm	420×370
Min. mold dimension	mm	270×240
Ejector stroke	mm	80
Ejector force	kN	19.6
Size of mold platen (H×V)	mm	617×570

		A	B	C	A	B	C	AA	A	B	C
Screw diameter	mm	22	26	30	26	28	30	26	28	32	36
Screw L/D ratio	L/D	20	20	17.4	21	21	19.6	21	21	21	18.6
Injection volume (theoretical)	cm ³	36	58	77	58	67	77	61	70	100	127
Injection weight (PS)	g	32.8	52	70	52	61	70	55	64	91	115
Screw speed	rpm		400			400			400		
Plasticizing rate (PS)	g/s	6.0	8.8	13	8.8	11	13	8.8	11	16	22
Nozzle contact force	kN		19.6			19.6			19.6		
Heating power	kW	6.0	7.8	7.8	7.4	7.4	7.4	6.9	7.8	9.2	9.2
INJECTION UNIT		120			160				210		
Injection speed	mm/s	200			200				200		
Injection rate (PS)	g/s	66	92	123	92	107	123	92	107	140	177
Injection pressure	MPa	280	220	165	260	220	192	280	260	200	160
	bar	2800	2200	1650	2600	2200	1920	2800	2600	2000	1600
Holding pressure	MPa	220	160	120	160	138	120	224	206	160	126
	bar	2200	1600	1200	1600	1380	1200	2240	2060	1600	1260
INJECTION UNIT		120h			160h				210h		
Injection speed	mm/s	350			350				350		
Injection rate (PS)	g/s	116	162	216	162	188	216	162	188	245	311
Injection pressure	MPa	280	220	165	260	220	192	280	260	200	160
	bar	2800	2200	1650	2600	2200	1920	2800	2600	2000	1600
Holding pressure	MPa	220	160	120	160	138	120	224	206	160	126
	bar	2200	1600	1200	1600	1380	1200	2240	2060	1600	1260

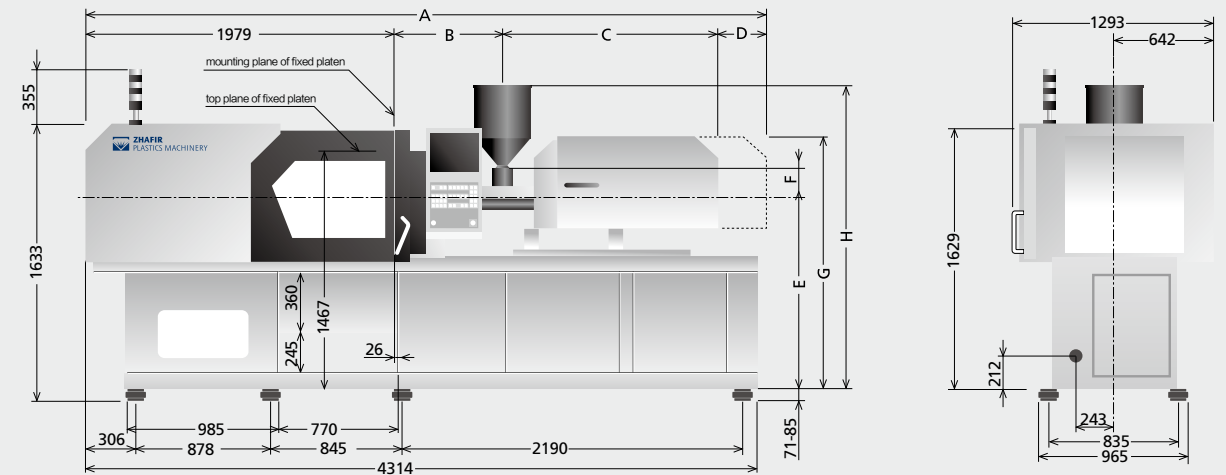
OTHERS

Connection power	kW/A	120:14/24 120h:21/35	160:14/23 160h:21/35	210:17/28 210h:26/43
Pressure	MPa	14	14	14
Flow	l/min	31	31	31
Oil tank	l	58	58	58
Hopper capacity	l	15	15	25
Machine dimension	m	4.2×1.3×2.0	4.4×1.3×2.0	4.4×1.3×2.0
Machine weight	t	4.1	4.1	4.3

We reserve the right to make changes as a result of further technical advantages.

Machine dimensions

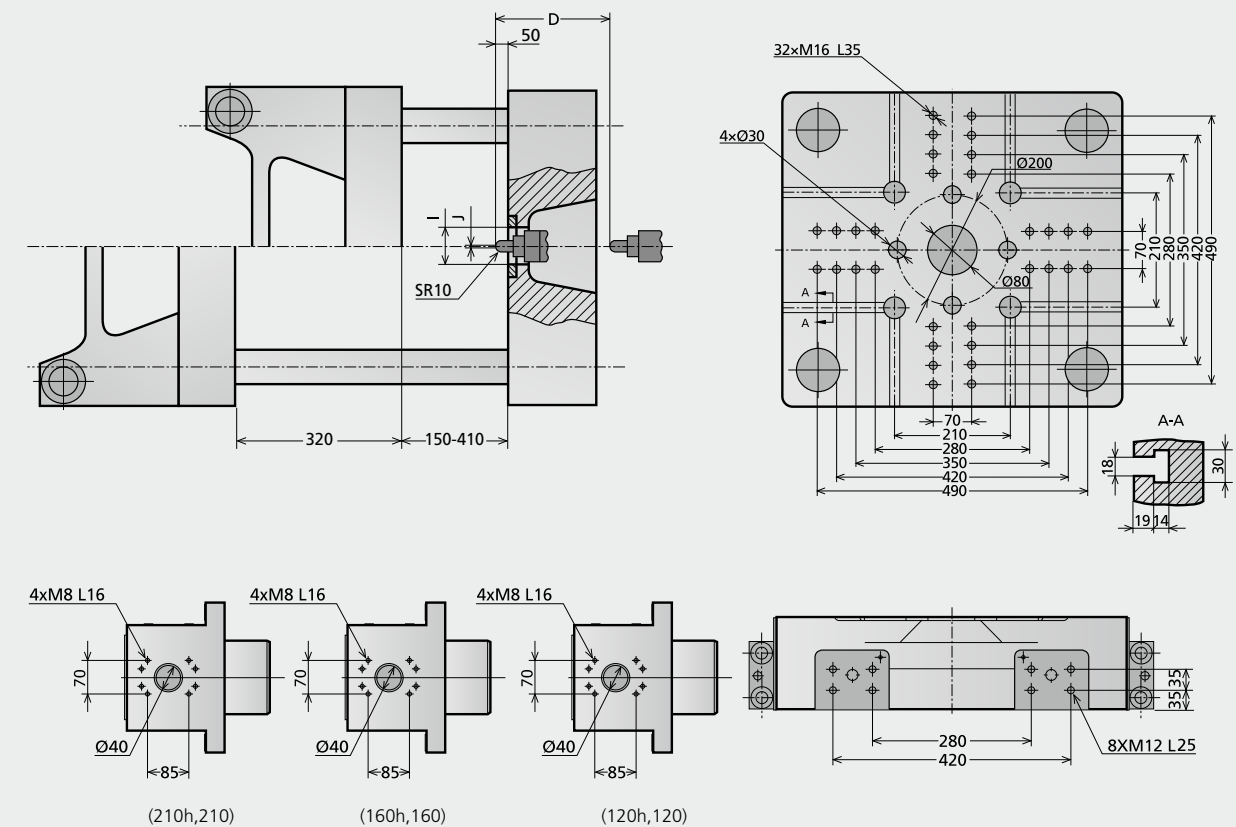
unit: mm



INJECTION UNIT	A	B	C	D	E	F	G	H	I	J
210,210h	4340	696	1350	315	1177	184	1593	1864	Ø125	Ø2.5
160,160h	4300	676	1330	315	1177	184	1593	1864	Ø125	Ø2.5
120,120h	4102	579	1229	315	1177	184	1584	1864	Ø125	Ø2.5

Platen dimensions

unit: mm



Technical data ZE1200

CLAMPING UNIT

		ZE1200
Clamping force	kN	1200
Mold opening stroke	mm	360
Mold height min	mm	150
Mold height max	mm	480
Max. daylight	mm	840
Dist. between tie bars (H×V)	mm	470×420
Min. mold dimension	mm	305×270
Ejector stroke	mm	100
Ejector force	kN	29.4
Size of mold platen (H×V)	mm	690×640

		A	B	C	AA	A	B	C	AA	A	B	C	A	B	C
Screw diameter	mm	26	28	30	26	28	32	36	30	32	36	40	36	40	45
Screw L/D ratio	L/D	21	21	19.6	21	21	21	18.6	21	22.5	20	18	23.3	21	18.7
Injection volume (theoretical)	cm ³	58	67	77	61	70	100	127	102	116	147	182	173	213	270
Injection weight (PS)	g	52	61	70	55	64	91	115	92	106	134	165	157	194	246
Screw speed	rpm	400			400			400			400				
Plasticizing rate (PS)	g/s	8.8	11	13	8.8	11	16	22	12.8	16	22	30	22	30	42
Nozzle contact force	kN	24.5			24.5			24.5			24.5				
Heating power	kW	7.4	7.4	7.4	6.9	7.8	9.2	9.2	10.4	11.8	11.8	11.8	13.4		

INJECTION UNIT

		160	210	300	430(OP)
Injection speed	mm/s	200	200	200	200
Injection rate (PS)	g/s	92	107	123	177
Injection pressure	MPa	260	220	192	280
	bar	2600	2200	1920	2800
Holding pressure	MPa	160	138	120	224
	bar	1600	1380	1200	2240

INJECTION UNIT

		160h	210h	300h	430h(OP)
Injection speed	mm/s	350	350	300	300
Injection rate (PS)	g/s	162	188	216	329
Injection pressure	MPa	260	220	192	280
	bar	2600	2200	1920	2800
Holding pressure	MPa	160	138	120	224
	bar	1600	1380	1200	2240

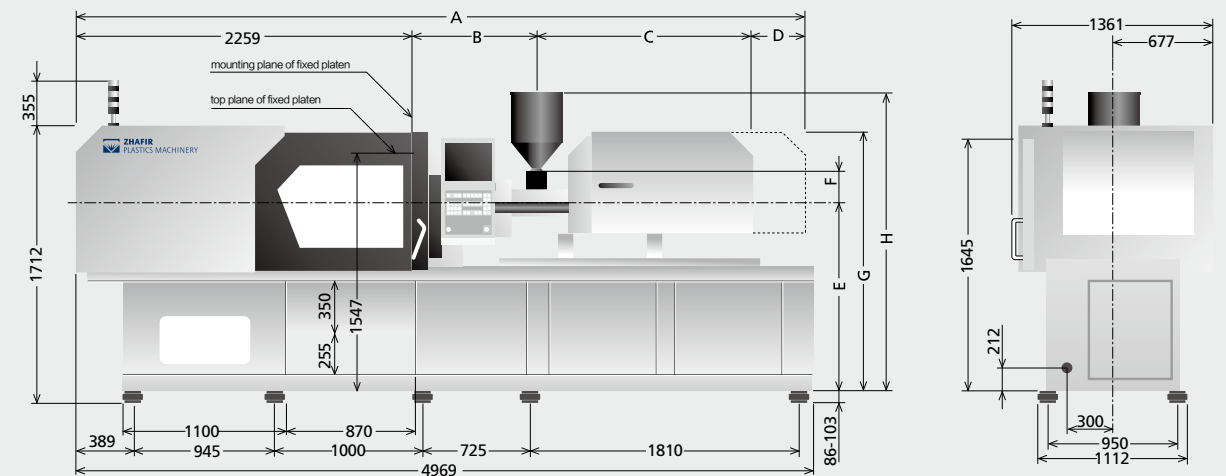
OTHERS

Connection power	kW/A	160:14/23 160h:21/35	210:17/28 210h:26/43	300:22/37 300h:33/55	430:30/50 430h:39/65
Pressure	MPa	14	14	14	14
Flow	l/min	52	52	52	52
Oil tank	l	93	93	93	93
Hopper capacity	l	15	25	25	25
Machine dimension	m	5.0×1.4×2.1	5.0×1.4×2.1	5.0×1.4×2.1	5.4×1.4×2.1
Machine weight	t	5	5.4	5.7	6.2

We reserve the right to make changes as a result of further technical advantages.

Machine dimensions

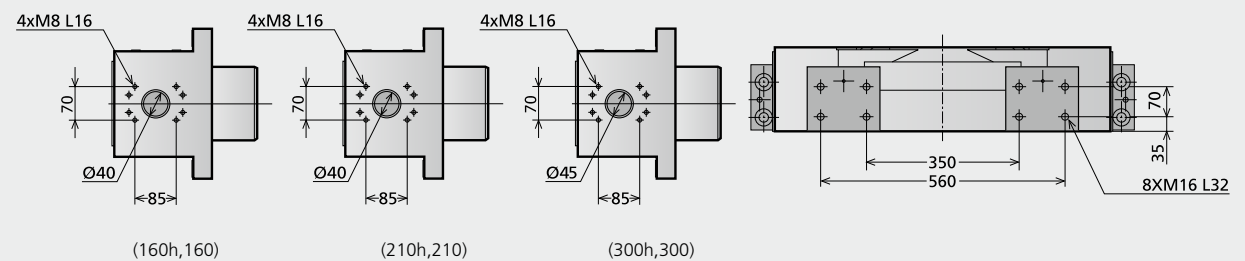
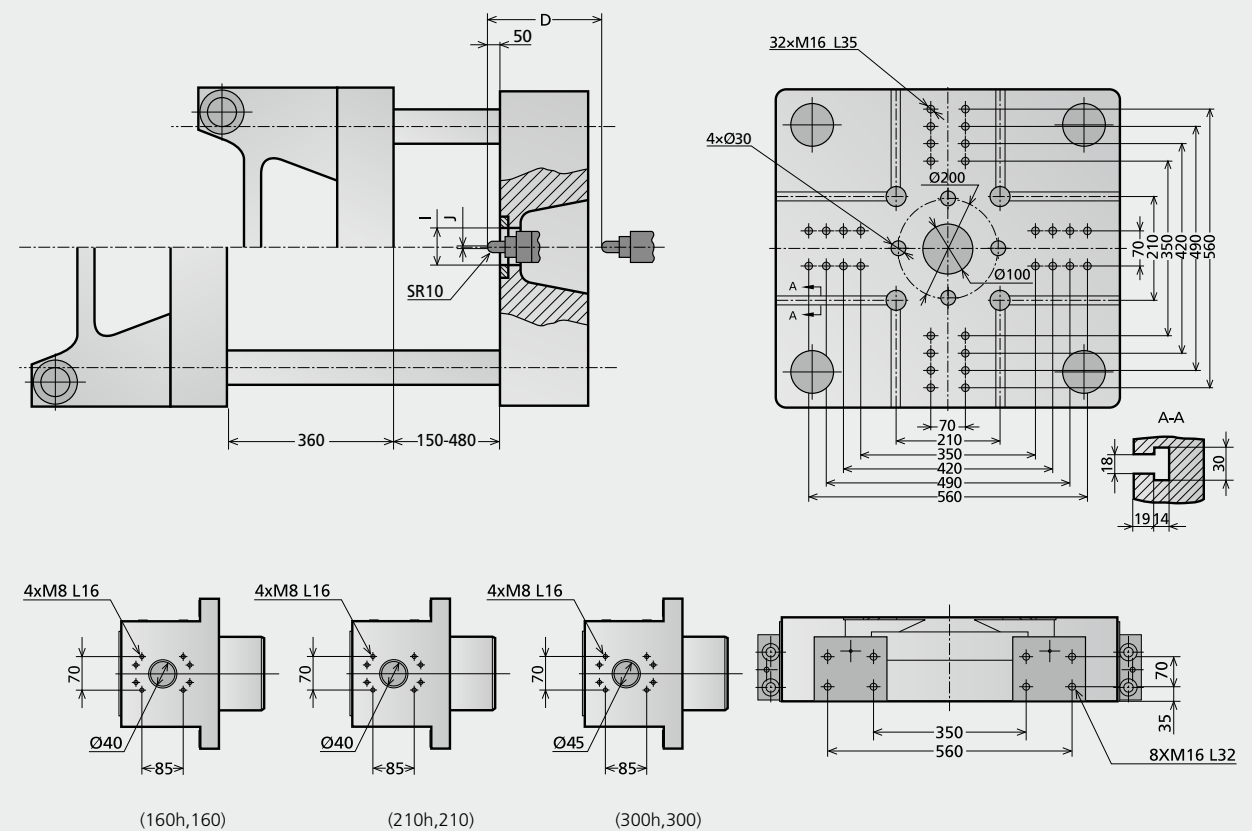
unit: mm



INJECTION UNIT	A	B	C	D	E	F	G	H	I	J
430,430h	5394	983	1782	360	1212	224	1747	1953	Ø125	Ø3
300,300h	4907	833	1445	360	1212	209	1727	1953	Ø125	Ø2.5
210,210h	4620	686	1350	315	1212	184	1638	1930	Ø125	Ø2.5
160,160h	4620	666	1370	315	1212	184	1638	1930	Ø125	Ø2.5

Platen dimensions

unit: mm



Technical data ZE1500

CLAMPING UNIT

		ZE1500
Clamping force	kN	1500
Mold opening stroke	mm	420
Mold height min	mm	180
Mold height max	mm	520
Max. daylight	mm	940
Dist. between tie bars (H×V)	mm	520×470
Min. mold dimension	mm	335×305
Ejector stroke	mm	120
Ejector force	kN	34.3
Size of mold platen (H×V)	mm	770×730

		A	B	C	AA	A	B	C	A	B	C	A	B	C
Screw diameter	mm	28	32	36	30	32	36	40	36	40	45	40	45	50
Screw L/D ratio	L/D	21	21	18.6	21	22.5	20	18	23.3	21	18.7	22.5	20	18
Injection volume (theoretical)	cm ³	70	100	127	102	116	147	182	173	213	270	252	319	394
Injection weight (PS)	g	64	91	115	92	106	134	165	157	194	246	229	290	358
Screw speed	rpm		400			400			400				350	
Plasticizing rate (PS)	g/s	11	16	22	12.8	16	22	30	22	30	42	27	39	50
Nozzle contact force	kN		19.6			29.4			29.4			29.4		
Heating power	kW	7.8	9.2	9.2	10.4	11.8	11.8	11.8	13.4			14.8		

INJECTION UNIT

		210	300	430	640(OP)
Injection speed	mm/s	200	200	200	160
Injection rate (PS)	g/s	107	140	177	175
Injection pressure	MPa	260	200	160	253
	bar	2600	2000	1600	2530
Holding pressure	MPa	206	160	126	202
	bar	2060	1600	1260	2020

INJECTION UNIT

		210h	300h	430h	640h(OP)
Injection speed	mm/s	350	300	300	250
Injection rate (PS)	g/s	188	245	311	274
Injection pressure	MPa	260	200	160	253
	bar	2600	2000	1600	2530
Holding pressure	MPa	206	160	126	202
	bar	2060	1600	1260	2020

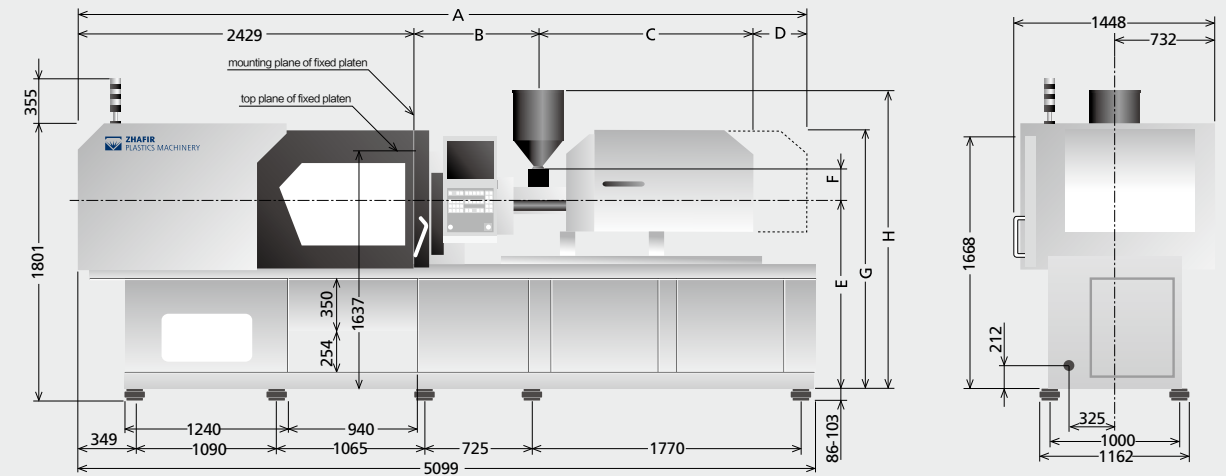
OTHERS

Connection power	kW/A	210:17/28 210h:26/43	300:22/37 300h:33/55	430:30/50 430h:39/65	640:37/62 640h:39/66
Pressure	MPa	14	14	14	14
Flow	l/min	52	52	52	52
Oil tank	l	93	93	93	93
Hopper capacity	l	25	25	25	25
Machine dimension	m	5.1×1.5×2.2	5.2×1.5×2.2	5.7×1.5×2.2	5.8×1.5×2.2
Machine weight	t	6.4	6.6	7.1	7.1

We reserve the right to make changes as a result of further technical advantages.

Machine dimensions

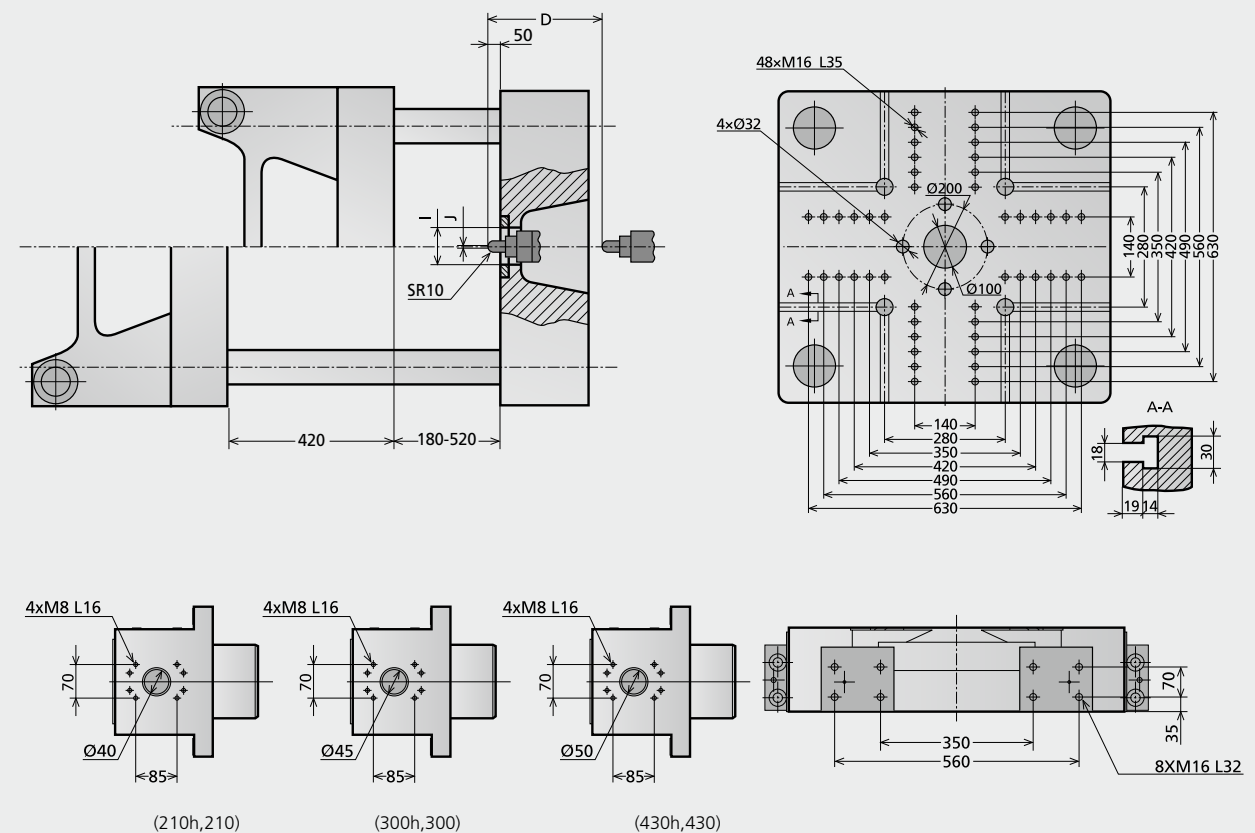
unit: mm



INJECTION UNIT	A	B	C	D	E	F	G	H	I	J
640,640h	5703	1053	1821	400	1267	224	1792	1998	Ø125	Ø 3
430,430h	5604	993	1782	400	1267	224	1792	1998	Ø125	Ø 3
300,300h	5113	843	1441	400	1267	209	1772	1983	Ø125	Ø 2.5
210,210h	4863	696	1338	400	1267	184	1683	1958	Ø125	Ø 2.5

Platen dimensions

unit: mm



Technical data ZE1900

CLAMPING UNIT

		ZE1900
Clamping force	kN	1900
Mold opening stroke	mm	470
Mold height min	mm	200
Mold height max	mm	550
Max. daylight	mm	1020
Dist. between tie bars (H×V)	mm	570×520
Min. mold dimension	mm	370×335
Ejector stroke	mm	130
Ejector force	kN	44.1
Size of mold platen (H×V)	mm	840×790

		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	32	36	40	36	40	45	40	45	50	45	50	55
Screw L/D ratio	L/D	22.5	20	18	23.3	21	18.7	22.5	20	18	22.2	20	18
Injection volume (theoretical)	cm ³	116	147	182	173	213	270	252	319	394	333	412	498
Injection weight (PS)	g	106	134	165	157	194	246	229	290	358	304	375	454
Screw speed	rpm	400			400			350			320		
Plasticizing rate (PS)	g/s	16	22	30	22	30	42	27	39	50	35	46	60
Nozzle contact force	kN	24.5			39.2			39.2			39.2		
Heating power	kW	11.8	11.8	11.8	13.4			14.8			20.2		

INJECTION UNIT

		300			430			640			830(OP)		
Injection speed	mm/s	200			200			160			160		
Injection rate (PS)	g/s	140	177	219	177	219	277	175	222	274	222	274	332
Injection pressure	MPa	253	200	162	247	200	158	253	200	162	247	200	165
	bar	2530	2000	1620	2470	2000	1580	2530	2000	1620	2470	2000	1650
Holding pressure	MPa	202	160	130	197	160	126	202	160	130	197	160	132
	bar	2020	1600	1300	1970	1600	1260	2020	1600	1300	1970	1600	1320

INJECTION UNIT

		300h			430h			640h			830h(OP)		
Injection speed	mm/s	300			300			250			250		
Injection rate (PS)	g/s	210	266	329	266	329	416	274	347	428	347	428	518
Injection pressure	MPa	253	200	162	247	200	158	253	200	162	247	200	165
	bar	2530	2000	1620	2470	2000	1580	2530	2000	1620	2470	2000	1650
Holding pressure	MPa	202	160	130	197	160	126	202	160	130	197	160	132
	bar	2020	1600	1300	1970	1600	1260	2020	1600	1300	1970	1600	1320

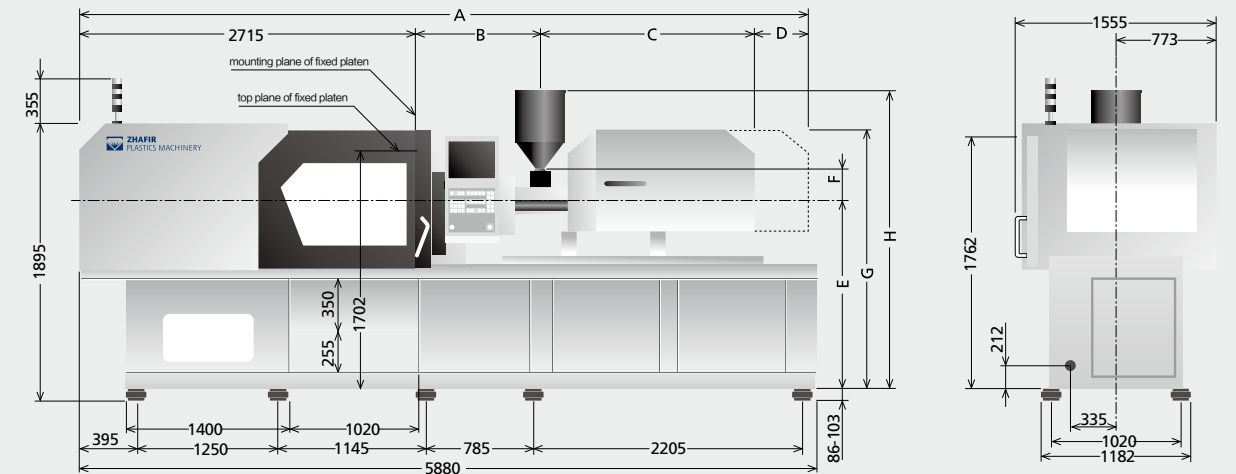
OTHERS

Connection power	kW/A	300:22/37 300h:33/55	430:30/50 430h:39/65	640:37/62 640h:39/66	830:45/76 830h:57/96
Pressure	MPa	14	14	14	14
Flow	l/min	70	70	70	70
Oil tank	l	115	115	115	115
Hopper capacity	l	25	25	25	50
Machine dimension	m	5.5×1.6×2.3	5.9×1.6×2.3	6.0×1.6×2.3	6.3×1.6×2.3
Machine weight	t	7.6	8	8.4	9.3

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Machine dimensions

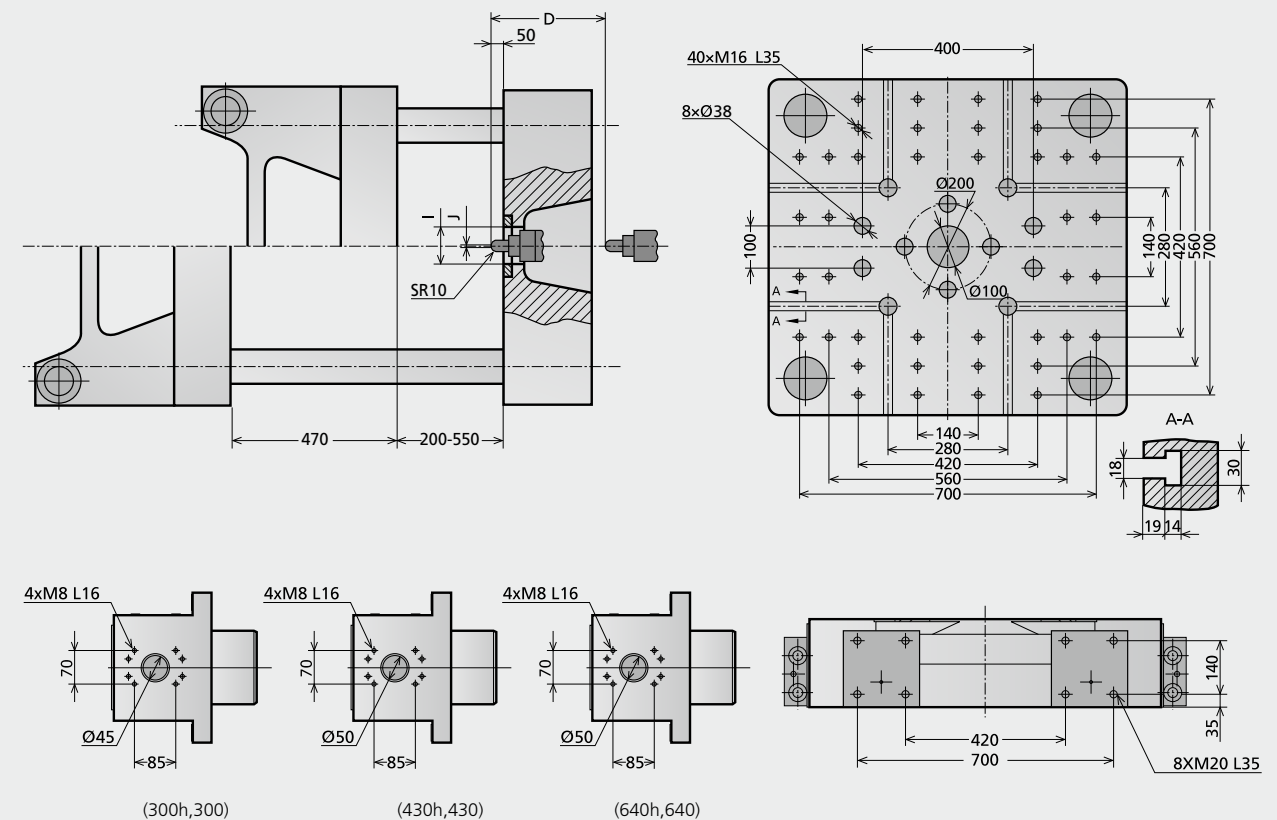
unit: mm



INJECTION UNIT	A	B	C	D	E	F	G	H	I	J
830,830h	6267	1164	1958	430	1302	255	1996	2142	Ø160	Ø3
640,640h	5989	1054	1820	400	1302	214	1827	2023	Ø160	Ø3
430,430h	5891	994	1782	400	1302	224	1827	2033	Ø160	Ø3
300,300h	5403	843	1445	400	1302	209	1807	2018	Ø160	Ø2.5

Platen dimensions

unit: mm



Technical data ZE2300

CLAMPING UNIT

		ZE2300
Clamping force	kN	2300
Mold opening stroke	mm	550
Mold height min	mm	220
Mold height max	mm	600
Max. daylight	mm	1150
Dist. between tie bars (H×V)	mm	620×620
Min. mold dimension	mm	400×400
Ejector stroke	mm	150
Ejector force	kN	49
Size of mold platen (H×V)	mm	917×917

		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	36	40	45	40	45	50	45	50	55	50	55	60
Screw L/D ratio	L/D	23.3	21	18.7	22.5	20	18	22.2	20	18	22	20	18.3
Injection volume (theoretical)	cm ³	173	213	270	252	319	394	333	412	498	471	570	678
Injection weight (PS)	g	157	194	246	229	290	358	304	375	454	428	518	617
Screw speed	rpm		400			350			320			320	
Plasticizing rate (PS)	g/s	22	30	42	27	39	50	35	46	60	52	64	75
Nozzle contact force	kN		29.4			49			49			54	
Heating power	kW		13.4			14.8			20.2			25	

INJECTION UNIT

		200			160			160			160		
Injection speed	mm/s												
Injection rate (PS)	g/s	177	219	277	175	222	274	222	274	332	274	332	395
Injection pressure	MPa	247	200	158	253	200	162	247	200	165	218	180	151
	bar	2470	2000	1580	2530	2000	1620	2470	2000	1650	2180	1800	1510
Holding pressure	MPa	197	160	126	202	160	130	197	160	132	194	160	134
	bar	1970	1600	1260	2020	1600	1300	1970	1600	1320	1940	1600	1340

INJECTION UNIT

		430h			640h			830h			1100h(OP)		
Injection speed	mm/s	300			250			250			250		
Injection rate (PS)	g/s	266	329	416	274	347	428	347	428	518	428	518	617
Injection pressure	MPa	247	200	158	253	200	162	247	200	165	218	180	151
	bar	2470	2000	1580	2530	2000	1620	2470	2000	1650	2180	1800	1510
Holding pressure	MPa	197	160	126	202	160	130	197	160	132	194	160	134
	bar	1970	1600	1260	2020	1600	1300	1970	1600	1320	1940	1600	1340

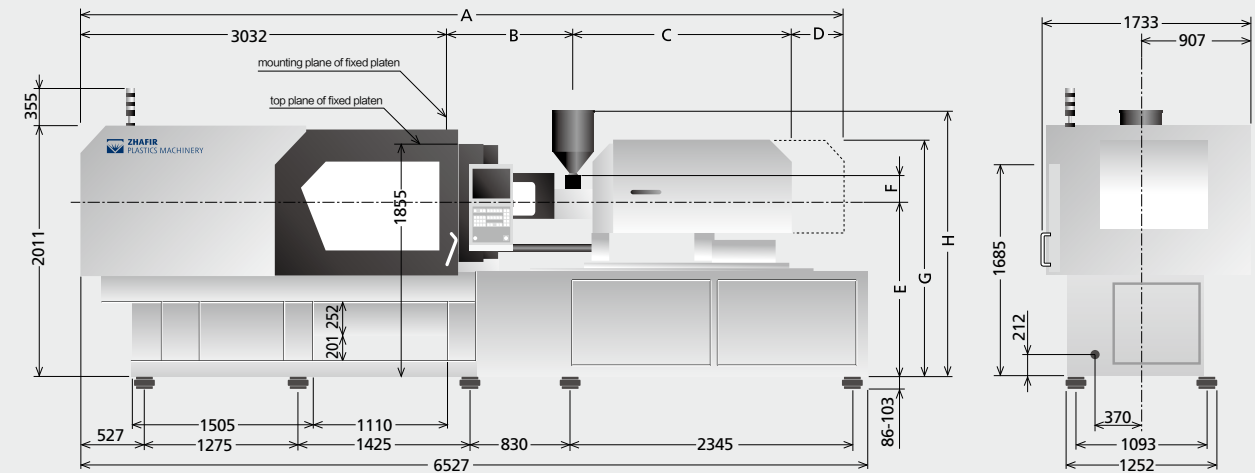
OTHERS

Connection power	kW/A	430:30/50 430h:39/65	640:37/62 640h:39/66	830:45/76 830h:57/96	1100:47/79 1100h:63/105
Pressure	MPa	14	14	14	14
Flow	l/min	80	80	80	80
Oil tank	l	122	122	122	122
Hopper capacity	l	25	25	50	50
Machine dimension	m	6.3×1.8×2.4	6.4×1.8×2.4	6.6×1.8×2.4	6.8×1.8×2.4
Machine weight	t	11.4	11.5	11.7	12.5

We reserve the right to make changes as a result of further technical advantages.

Machine dimensions

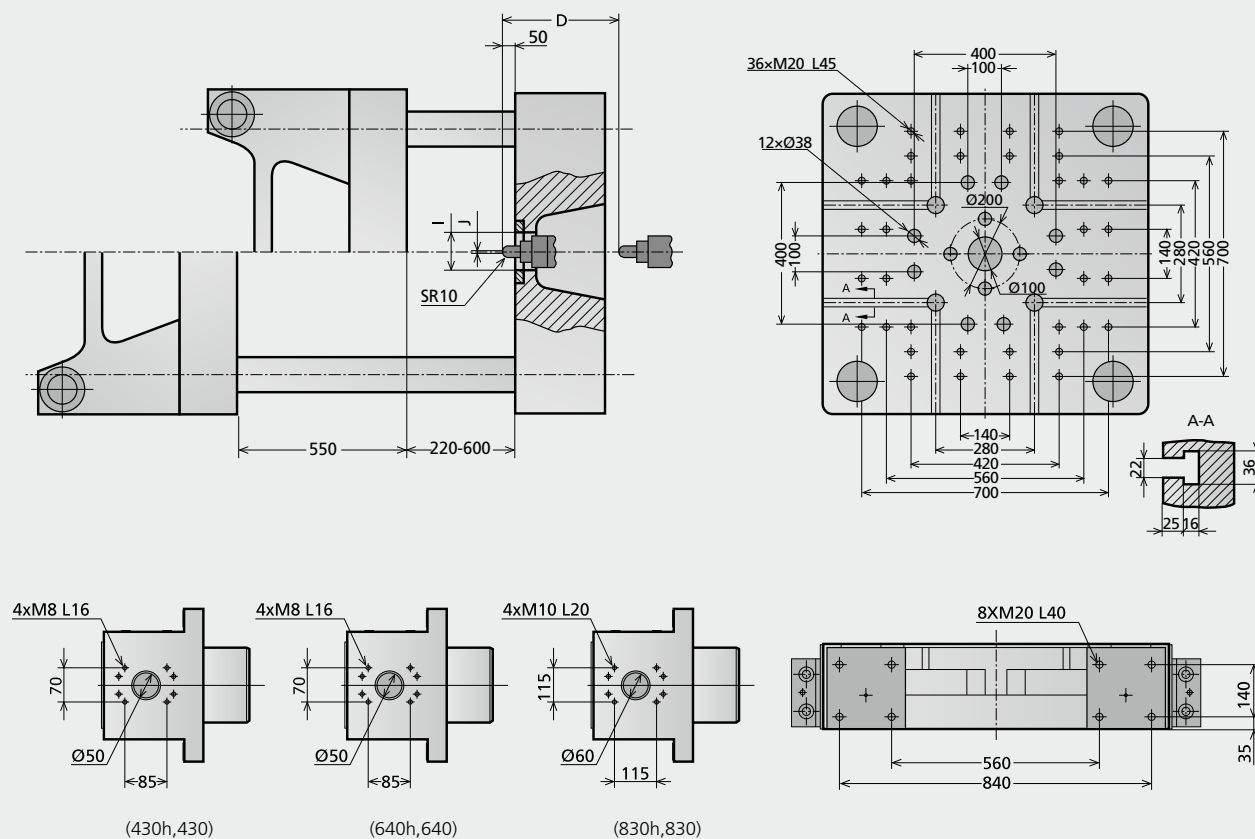
unit: mm



INJECTION UNIT	A	B	C	D	E	F	G	H	I	J
1100,1100h	6759	1318	2016	430	1387	245	2081	2217	Ø160	Ø3
830,830h	6585	1202	1958	430	1387	255	2081	2227	Ø160	Ø3
640,640h	6307	1091	1821	400	1387	214	1912	2108	Ø160	Ø3
430,430h	6207	1030	1782	400	1387	224	1912	2114	Ø160	Ø3

Platen dimensions

unit: mm



Technical data **ZE3000**

CLAMPING UNIT		ZE3000
Clamping force	kN	3000
Mold opening stroke	mm	600
Mold height min	mm	240
Mold height max	mm	650
Max. daylight	mm	1250
Dist. between tie bars (H×V)	mm	720×720
Min. mold dimension	mm	470×470
Ejector stroke	mm	150
Ejector force	kN	58.8
Size of mold platen (H×V)	mm	1042×1042

		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	45	50	55	50	55	60	55	60	65	60	65	70
Screw L/D ratio	L/D	22.2	20	18	22	20	18.3	21.8	20	18.5	21.6	20	18.6
Injection volume (theoretical)	cm ³	333	412	498	471	570	678	617	735	862	791	929	1077
Injection weight (PS)	g	304	375	454	428	518	617	562	668	785	720	845	980
Screw speed	rpm	320			320			300			250		
Plasticizing rate (PS)	g/s	35	46	60	52	64	75	54	64	71	57	68	72
Nozzle contact force	kN	54			54			54			54		
Heating power	kW	20.2			25			29.8			34.4		

INJECTION UNIT		830			1100			1400			1700(OP)		
Injection speed	mm/s	160			160			160			160		
Injection rate (PS)	g/s	222	274	332	274	332	395	332	395	463	395	463	537
Injection pressure	MPa	247	200	165	218	180	151	214	180	153	210	180	155
	bar	2470	2000	1650	2180	1800	1510	2140	1800	1530	2100	1800	1550
Holding pressure	MPa	197	160	132	194	160	134	190	160	136	187	160	138
	bar	1970	1600	1320	1940	1600	1340	1900	1600	1360	1870	1600	1380

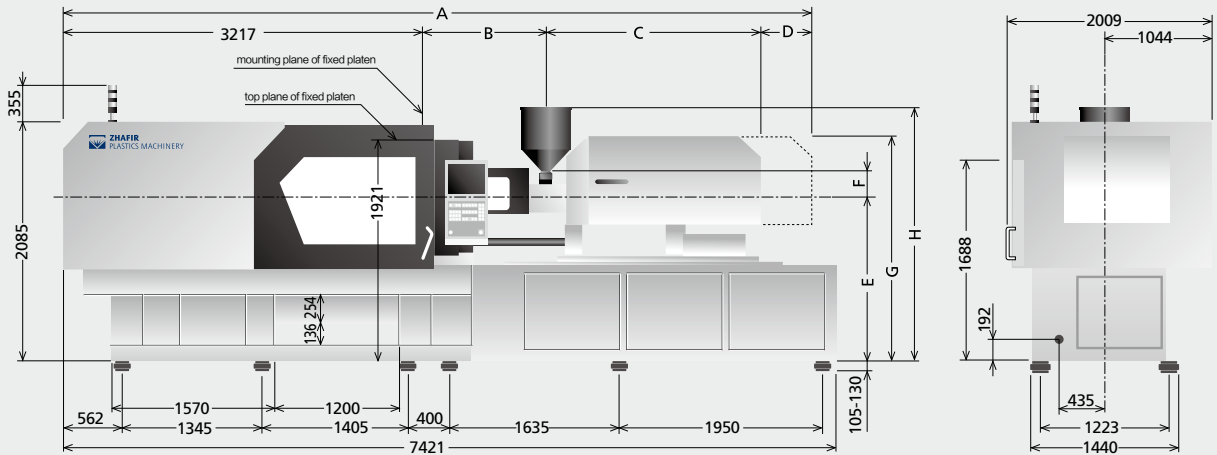
INJECTION UNIT		830h			1100h			1400h			1700h(OP)		
Injection speed	mm/s	250			250			250			250		
Injection rate (PS)	g/s	347	428	518	428	518	617	518	617	724	617	724	840
Injection pressure	MPa	247	200	165	218	180	151	214	180	153	210	180	155
	bar	2470	2000	1650	2180	1800	1510	2140	1800	1530	2100	1800	1550
Holding pressure	MPa	197	160	132	194	160	134	190	160	136	187	160	138
	bar	1970	1600	1320	1940	1600	1340	1900	1600	1360	1870	1600	1380

OTHERS		830:45/76 830h:57/96	1100:47/79 1100h:63/105	1400:71/118 1400h:100/168	1700:83/139 1700h:102/171
Connection power	kW/A	14			
Pressure	MPa	14			
Flow	l/min	100			
Oil tank	l	135			
Hopper capacity	l	50			
Machine dimension	m	7.5×2.1×2.5	7.5×2.1×2.5	7.6×2.1×2.5	7.8×2.1×2.5
Machine weight	t	14.2	14.6	15.7	16

We reserve the right to make changes as a result of further technical advantages.

Machine dimensions

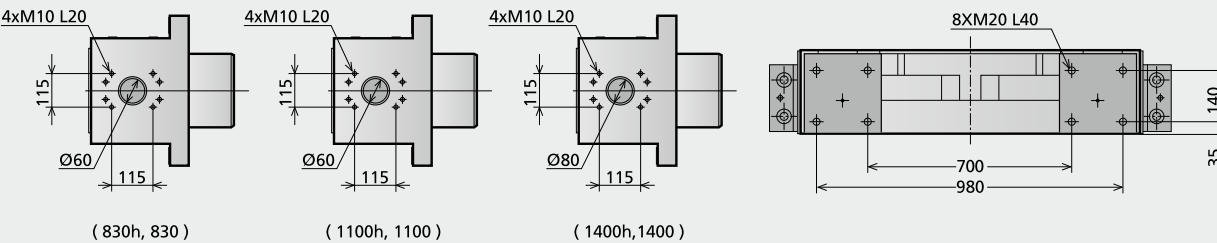
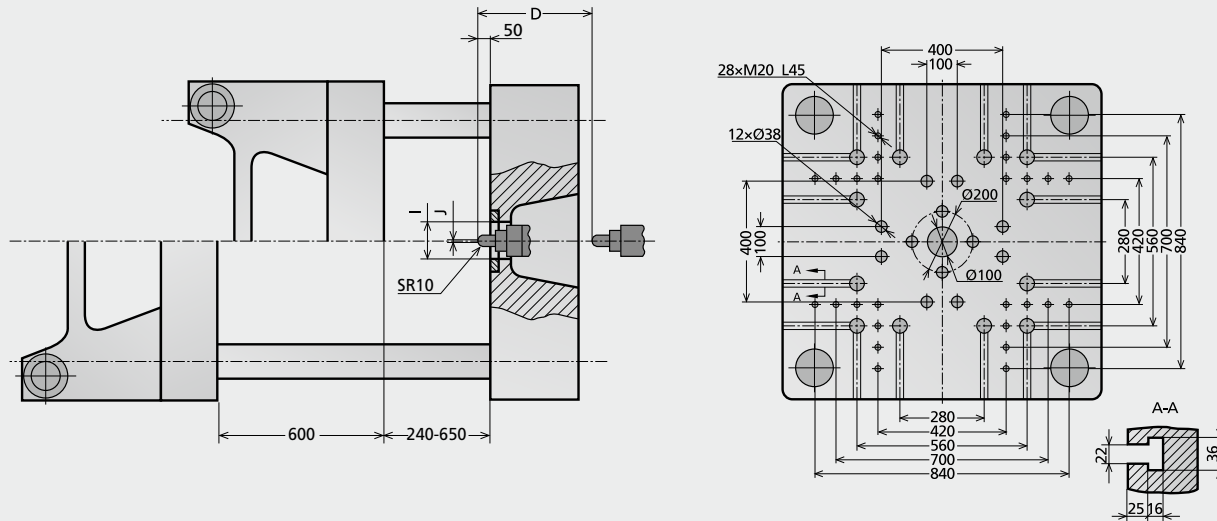
unit: mm



INJECTION UNIT	A	B	C	D	E	F	G	H	I	J
1700,1700h	7719	1527	2415	560	1390	250	2095	2225	Ø160	Ø3
1400,1400h	7519	1361	2381	560	1390	250	2095	2225	Ø160	Ø3
1100,1100h	7073	1281	2015	560	1390	245	2084	2221	Ø160	Ø3
830,830h	6900	1165	1958	560	1390	255	2084	2230	Ø160	Ø3

Platen dimensions

unit: mm



Technical data **ZE3600**

CLAMPING UNIT		ZE3600	
Clamping force	kN	3600	
Mold opening stroke	mm	700	
Mold height min	mm	250	
Mold height max	mm	710	
Max. daylight	mm	1410	
Dist. between tie bars (HxV)	mm	820x820	
Min. mold dimension	mm	540x540	
Ejector stroke	mm	160	
Ejector force	kN	58.8	
Size of mold platen (HxV)	mm	1170x1170	

		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	50	55	60	55	60	65	60	65	70	65	70	80
Screw L/D ratio	L/D	22	20	18.3	21.8	20	18.5	21.6	20	18.6	21.5	20	17.5
Injection volume (theoretical)	cm ³	471	570	678	617	735	862	791	929	1077	1068	1239	1618
Injection weight (PS)	g	428	518	617	562	668	785	720	845	980	972	1127	1472
Screw speed	rpm	320			300			250			210		
Plasticizing rate (PS)	g/s	52	64	75	54	64	71	57	68	72	56	65	80
Nozzle contact force	kN	54			54			54			88.2		
Heating power	kW	25			29.8			34.4			37.8		

INJECTION UNIT		1100			1400			1700			2250(OP)		
Injection speed	mm/s	160			160			160			160		
Injection rate (PS)	g/s	274	332	395	332	395	463	395	463	537	463	537	702
Injection pressure	MPa	218	180	151	214	180	153	210	180	155	210	180	138
	bar	2180	1800	1510	2140	1800	1530	2100	1800	1550	2100	1800	1380
Holding pressure	MPa	194	160	134	190	160	136	187	160	138	190	162	124
	bar	1940	1600	1340	1900	1600	1360	1870	1600	1380	1900	1620	1240

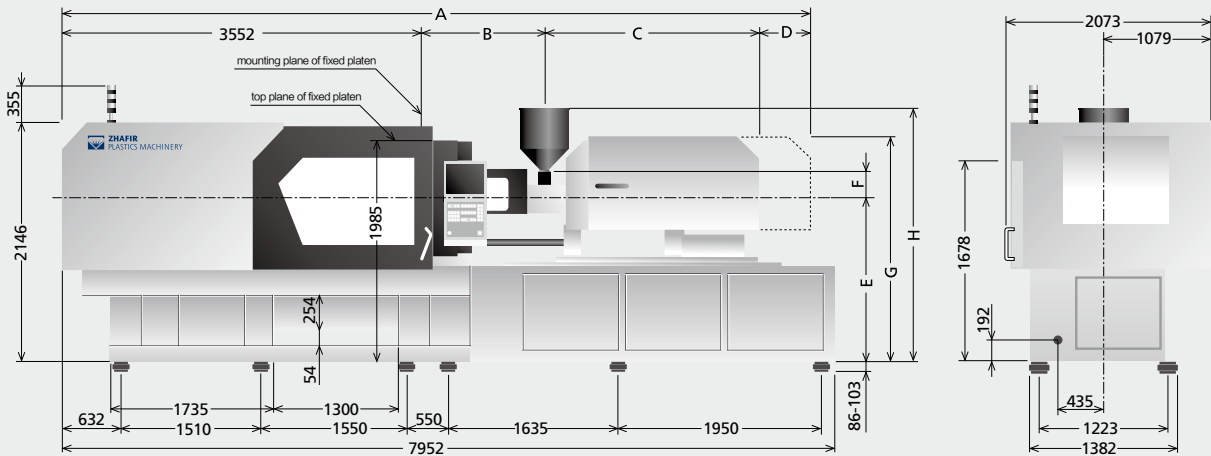
INJECTION UNIT		1100h			1400h			1700h			--		
Injection speed	mm/s	250			250			250			--		
Injection rate (PS)	g/s	428	518	617	518	617	724	617	724	840	--	--	--
Injection pressure	MPa	218	180	151	214	180	153	210	180	155	--	--	--
	bar	2180	1800	1510	2140	1800	1530	2100	1800	1550	--	--	--
Holding pressure	MPa	194	160	134	190	160	136	187	160	138	--	--	--
	bar	1940	1600	1340	1900	1600	1360	1870	1600	1380	--	--	--

OTHERS		1100:47/79 1100h:63/105		1400:71/118 1400h:100/168		1700:83/139 1700h:102/171		2250:77/129	
Connection power	kW/A	14		14		14		14	
Pressure	MPa	100		100		100		100	
Flow	l/min	135		135		135		135	
Oil tank	l	50		50		50		100	
Hopper capacity	l	8.0x2.1x2.6		8.0x2.1x2.6		8.1x2.1x2.6		8.5x2.1x2.6	
Machine dimension	m	17.7		19		19.1		20.9	
Machine weight	t								

We reserve the right to make changes as a result of further technical advantages.

Machine dimensions

unit: mm

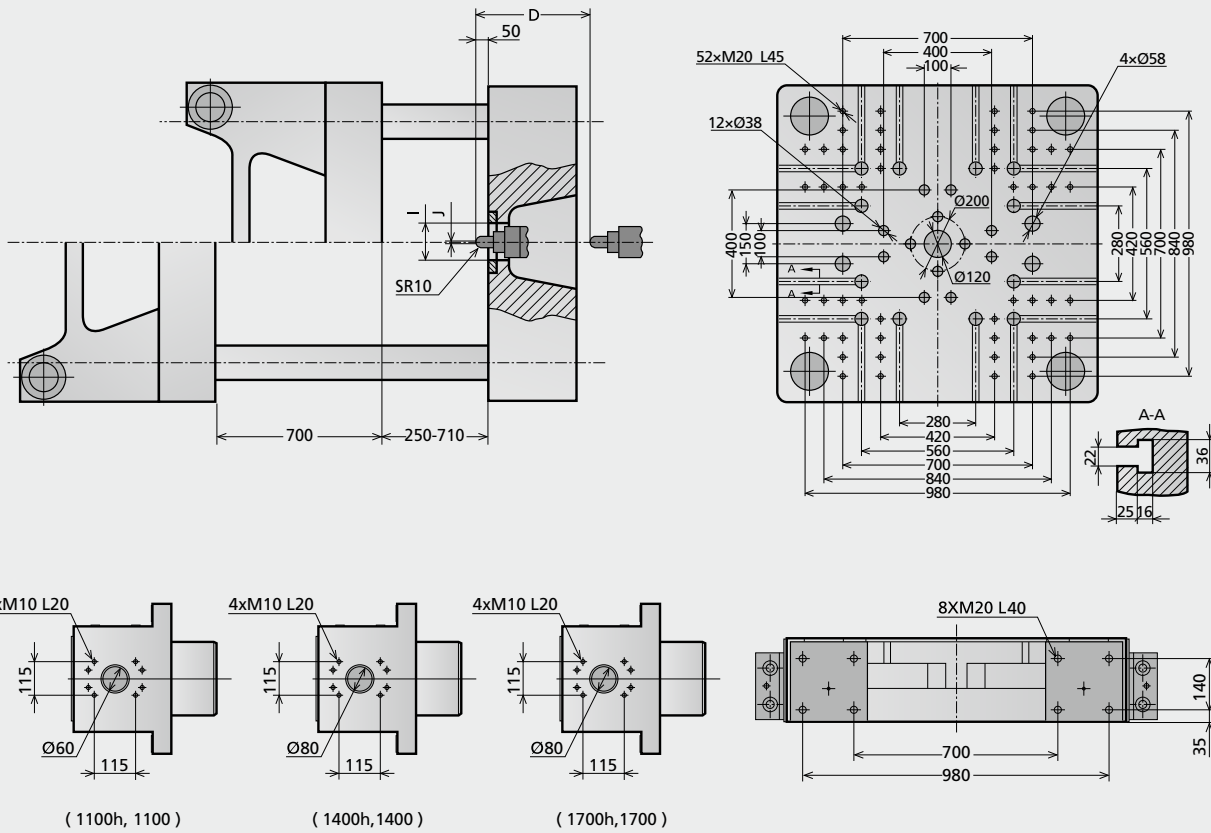


Note:The above machine size does not apply to the 2250 injection unit.

INJECTION UNIT	A	B	C	D	E	F	G	H	I	J
1700,1700h	8054	1527	2415	560	1390	250	2095	2225	Ø200	Ø3
1400,1400h	7854	1361	2381	560	1390	250	2095	2225	Ø200	Ø3
1100,1100h	7407	1280	2015	560	1390	245	2084	2221	Ø200	Ø3

Platen dimensions

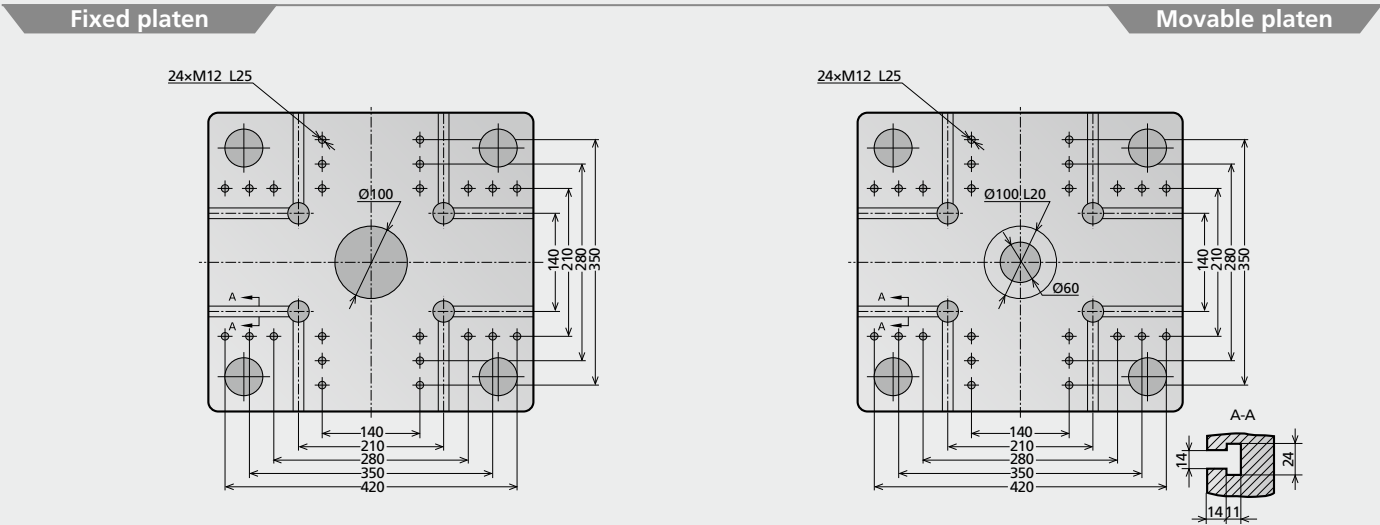
unit: mm



Platen Layout ZE400

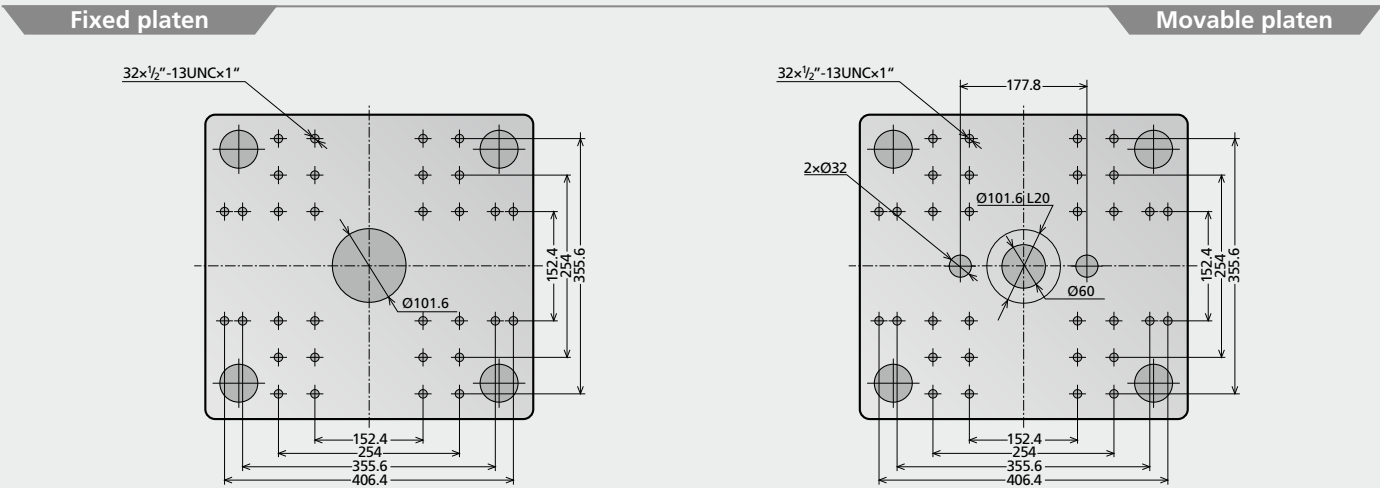
European version

unit: mm



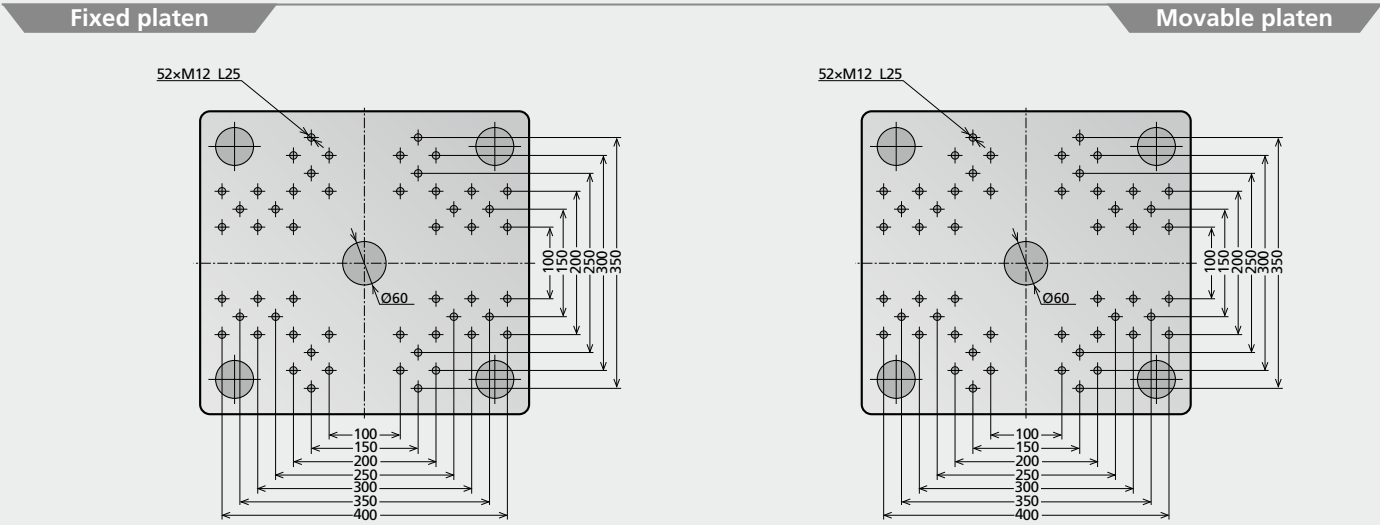
American version

unit: mm



Japanese version

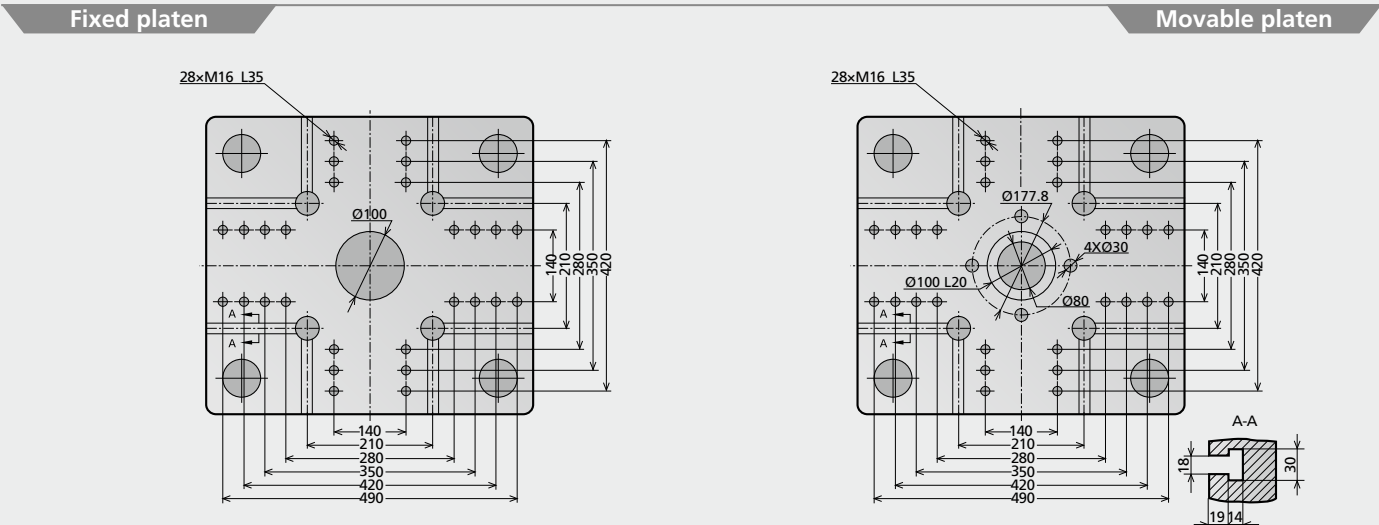
unit: mm



Platen Layout ZE600

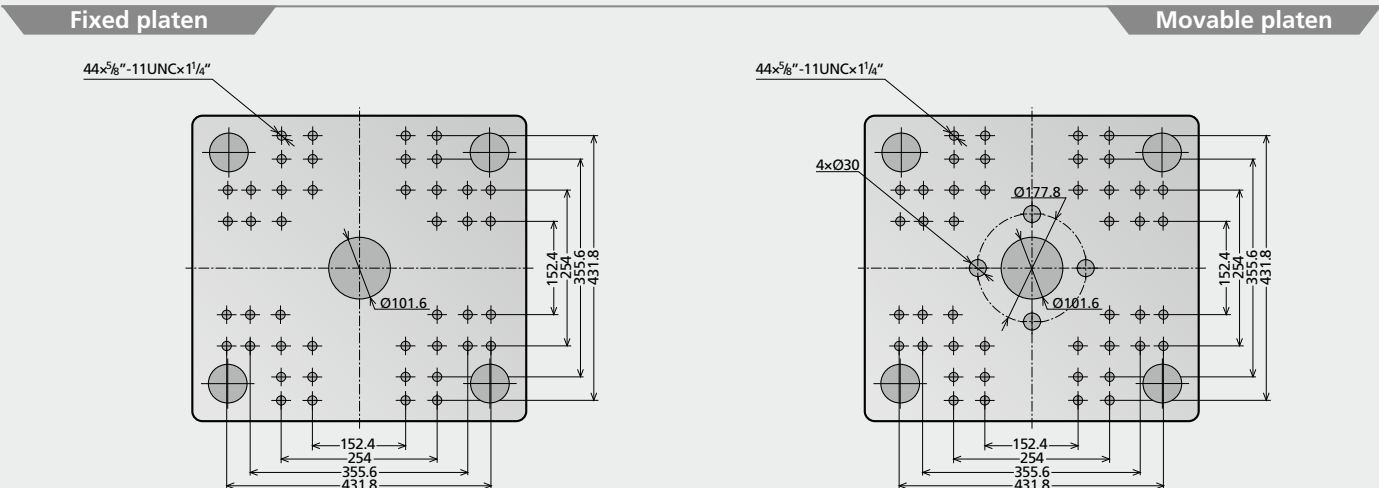
European version

unit: mm



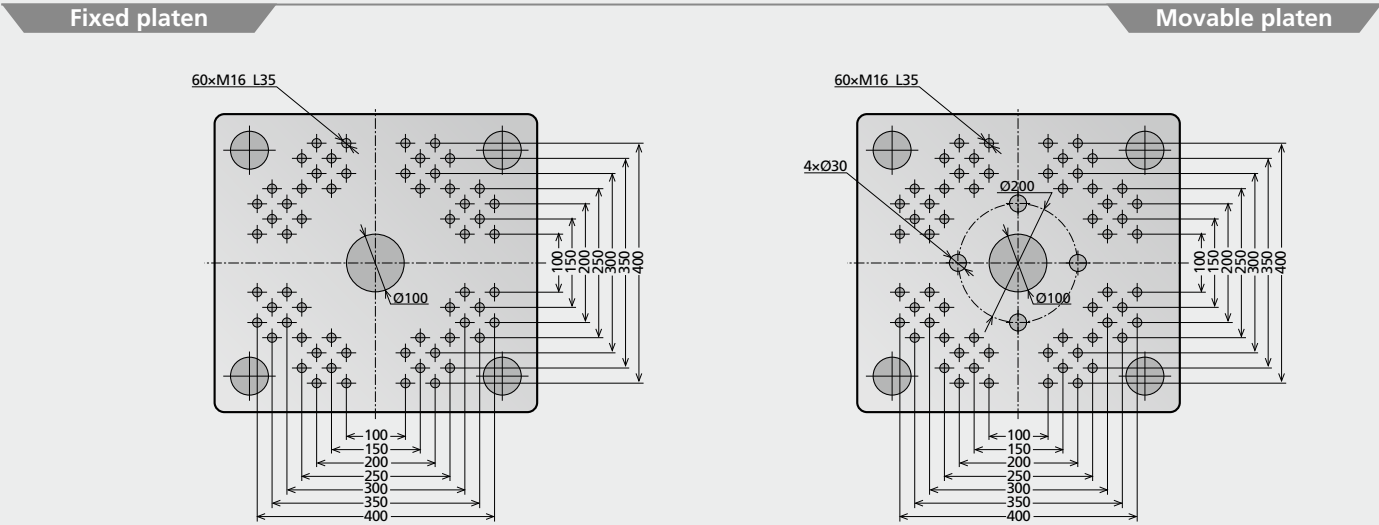
American version

unit: mm



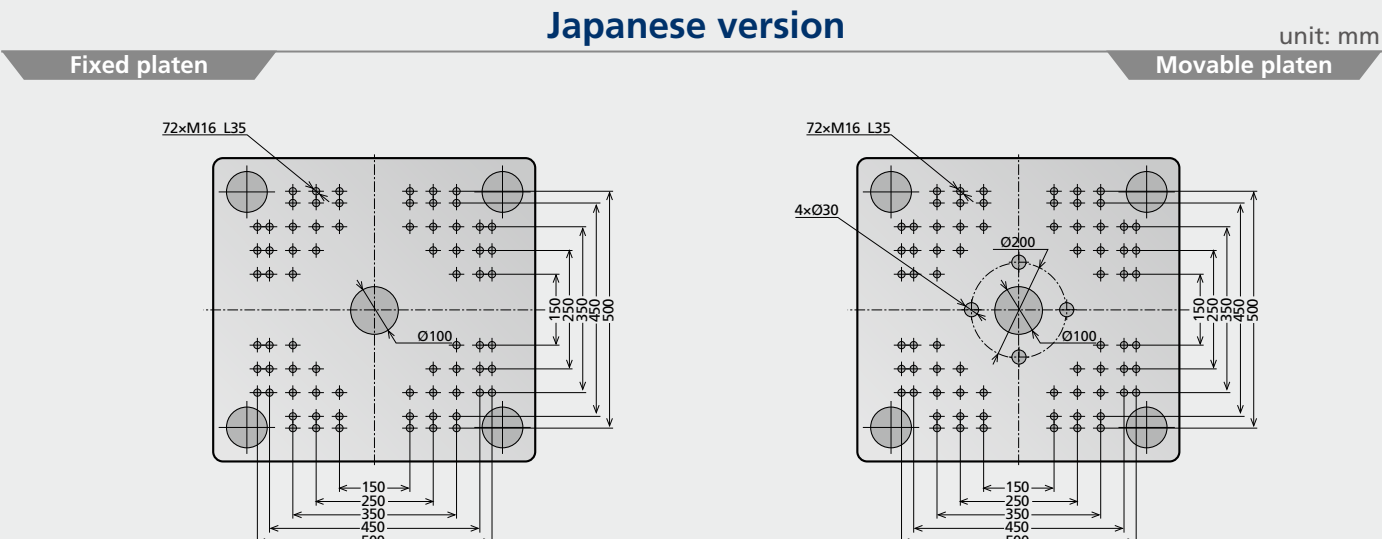
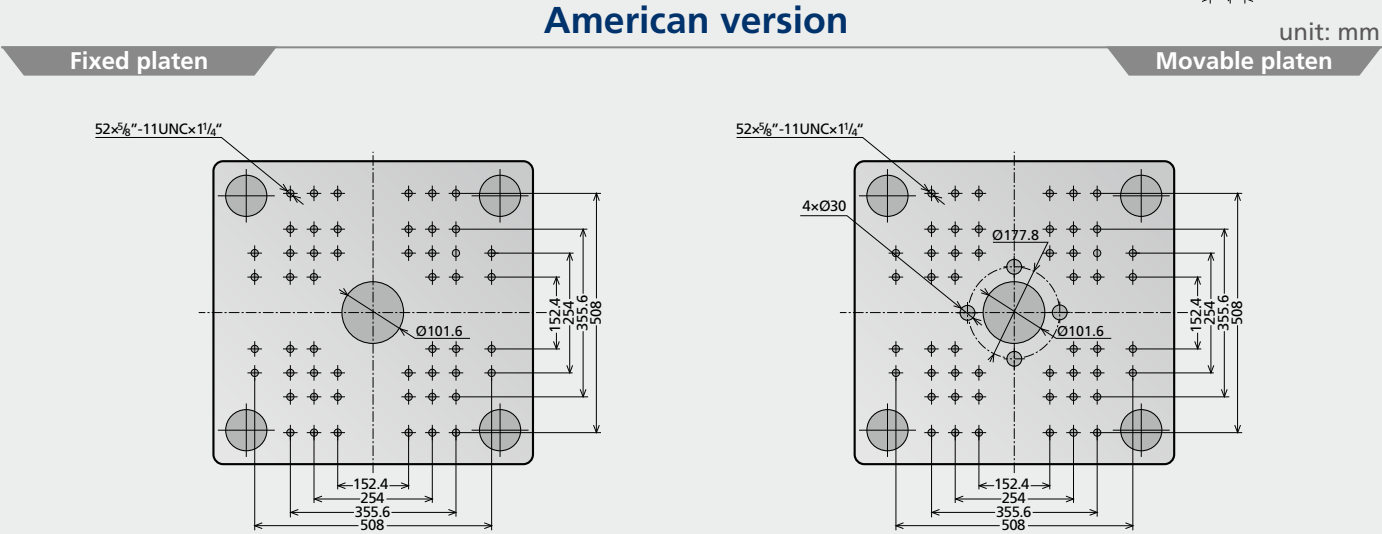
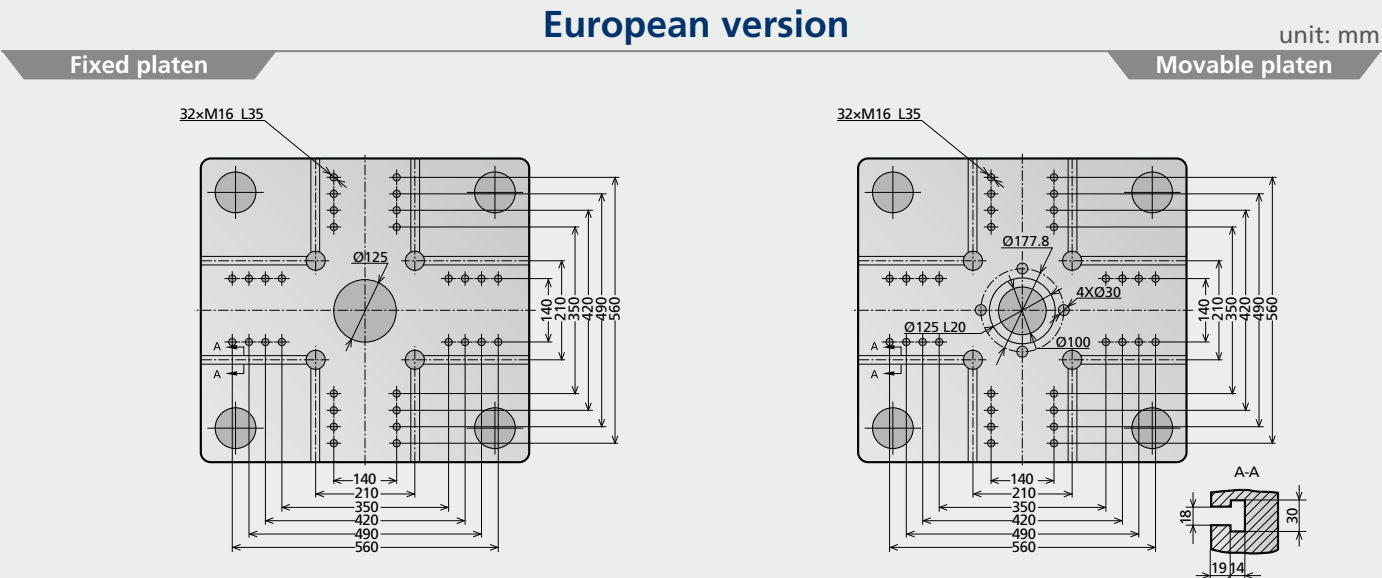
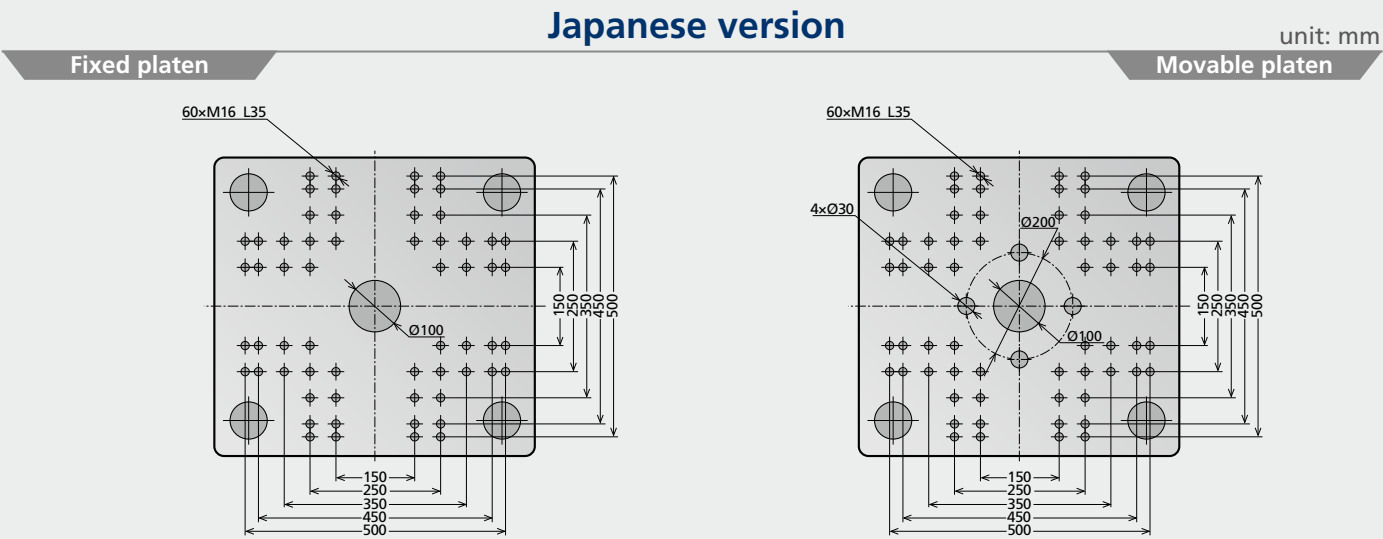
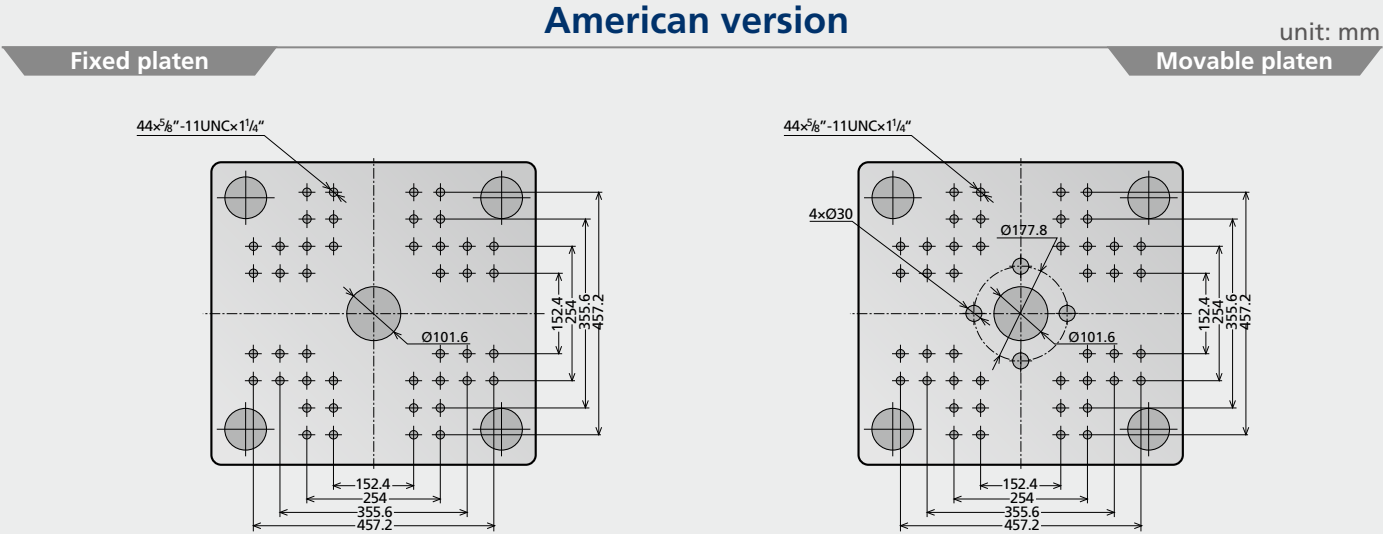
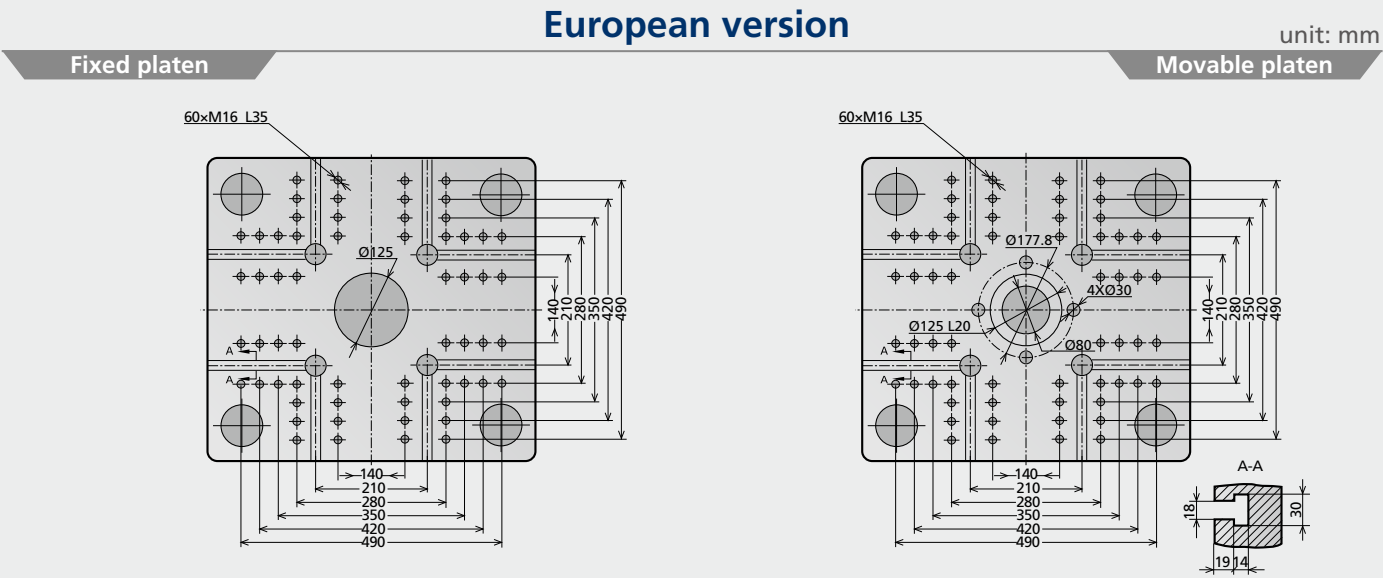
Japanese version

unit: mm



Platen Layout ZE900

Platen Layout ZE1200

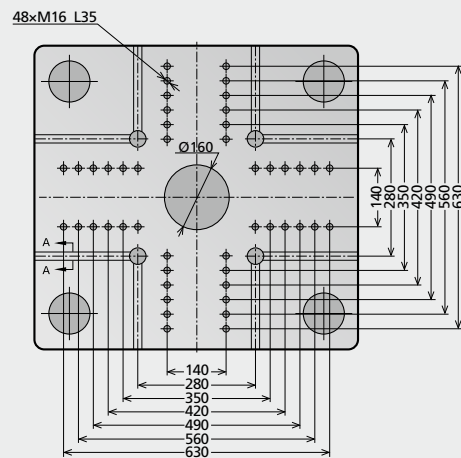


Platen Layout **ZE1500**

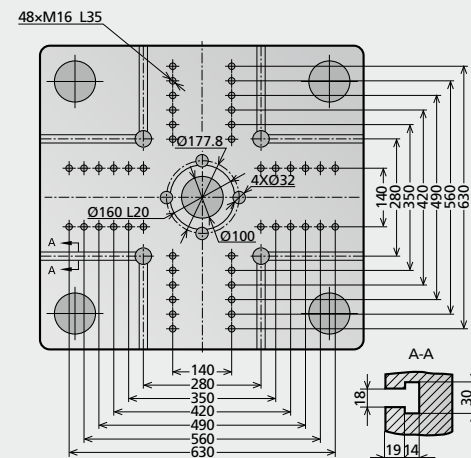
European version

unit: mm

Fixed platen



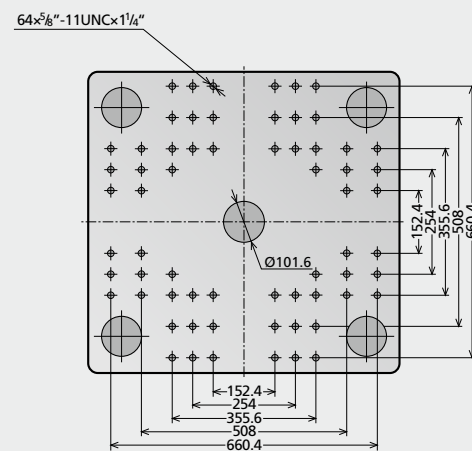
Movable platen



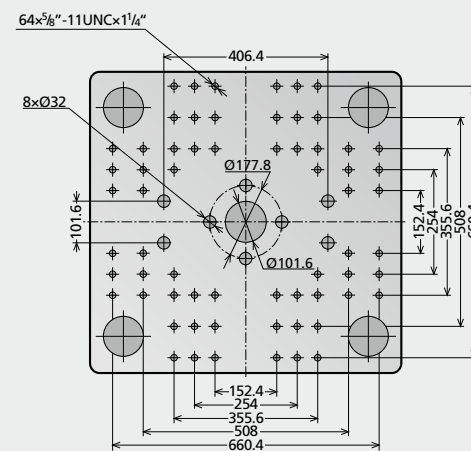
American version

unit: mm

Fixed platen



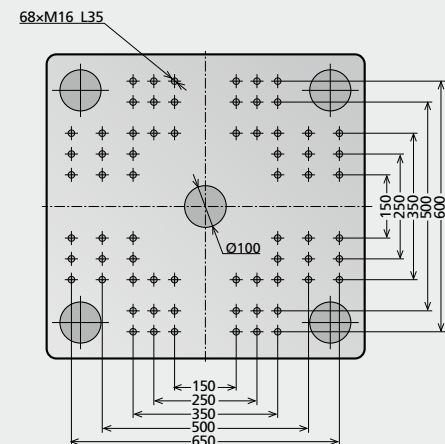
Movable platen



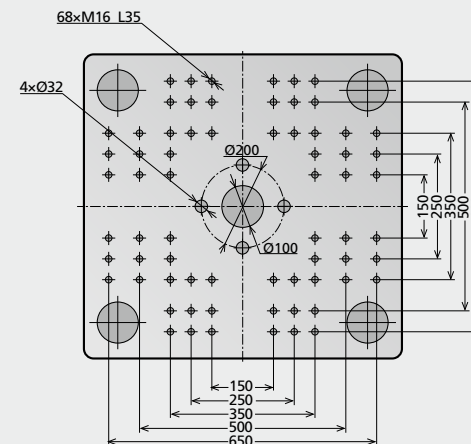
Japanese version

unit: mm

Fixed platen



Movable platen

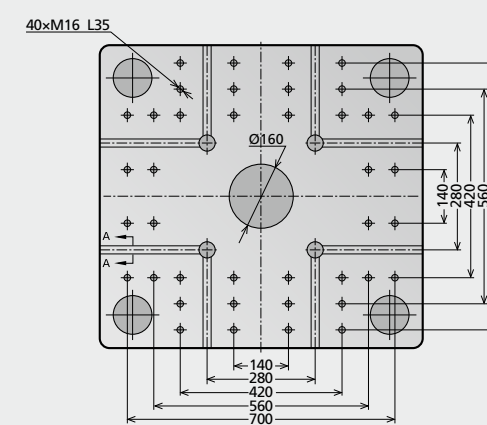


Platen Layout **ZE1900**

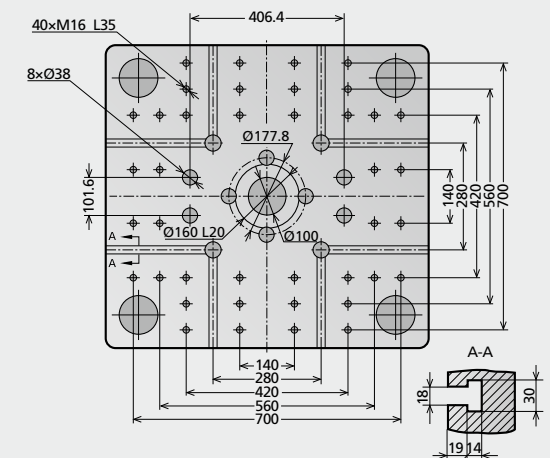
European version

unit: mm

Fixed platen



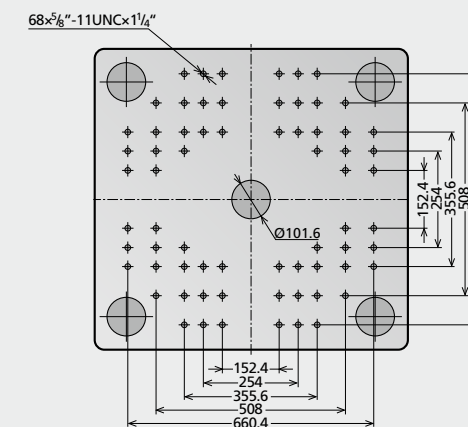
Movable platen



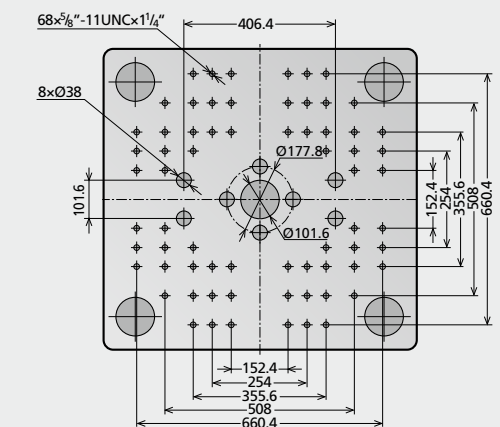
American version

unit: mm

Fixed platen



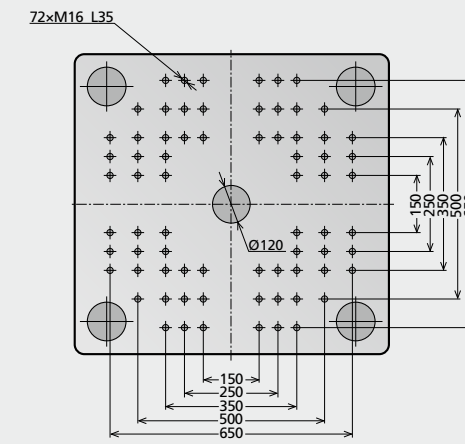
Movable platen



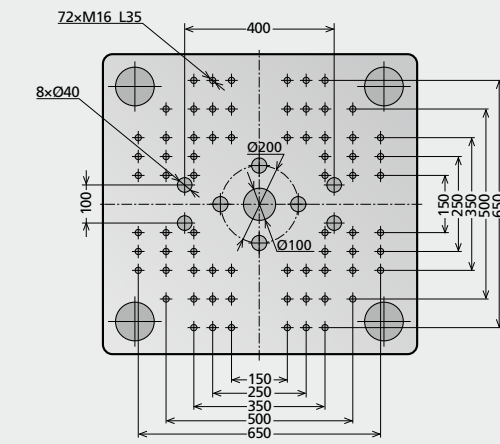
Japanese version

unit: mm

Fixed platen



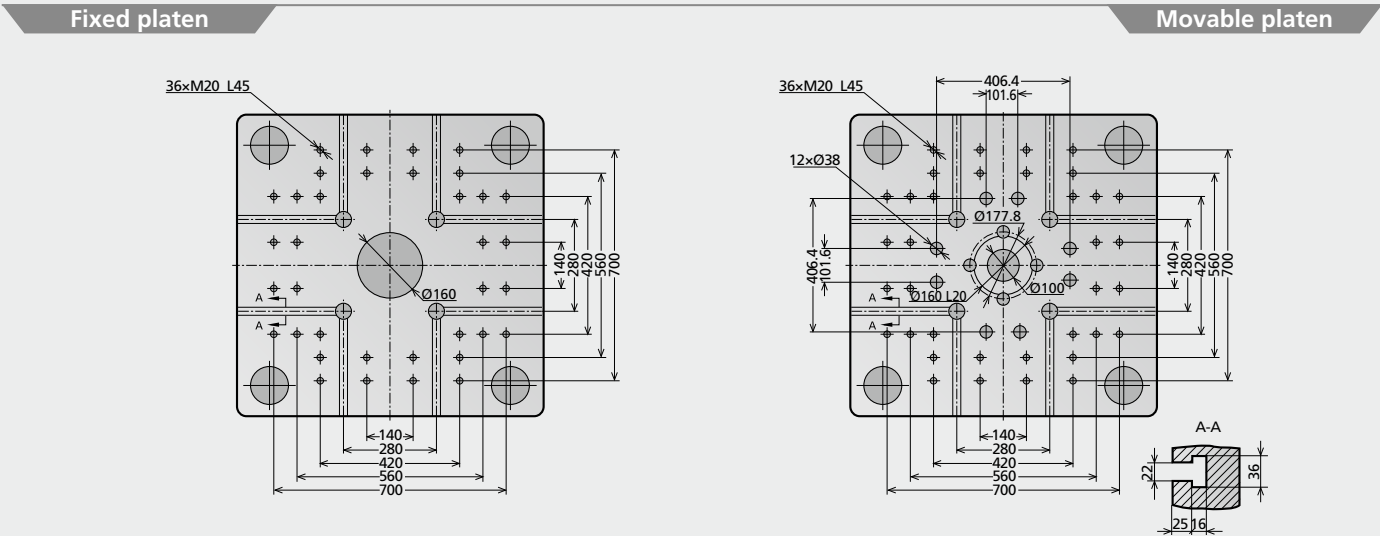
Movable platen



Platen Layout ZE2300

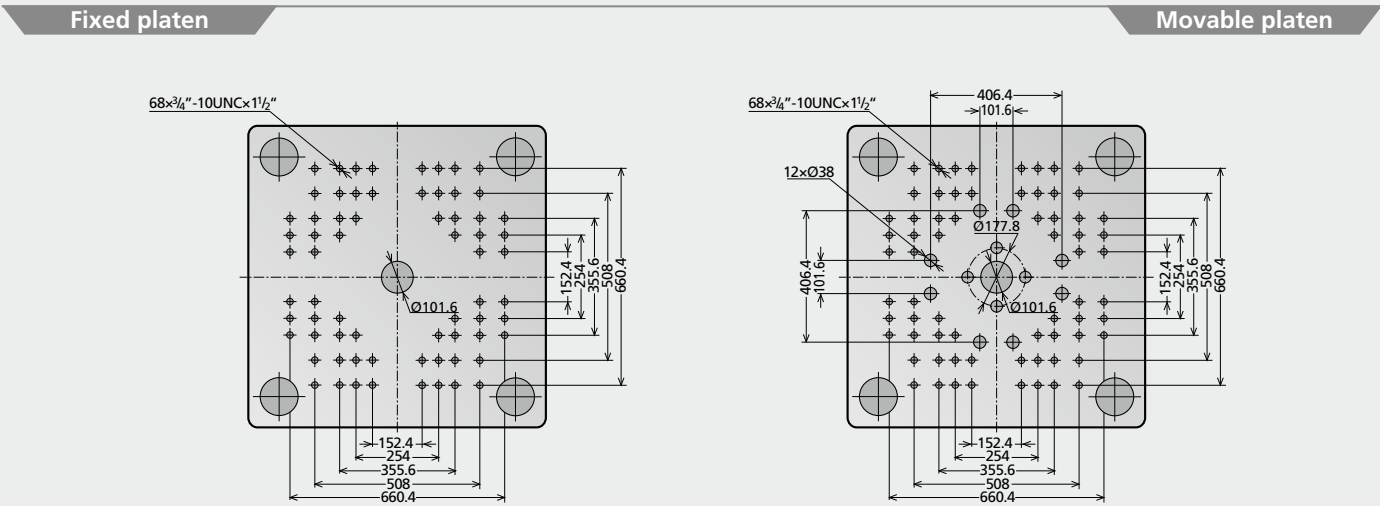
European version

unit: mm



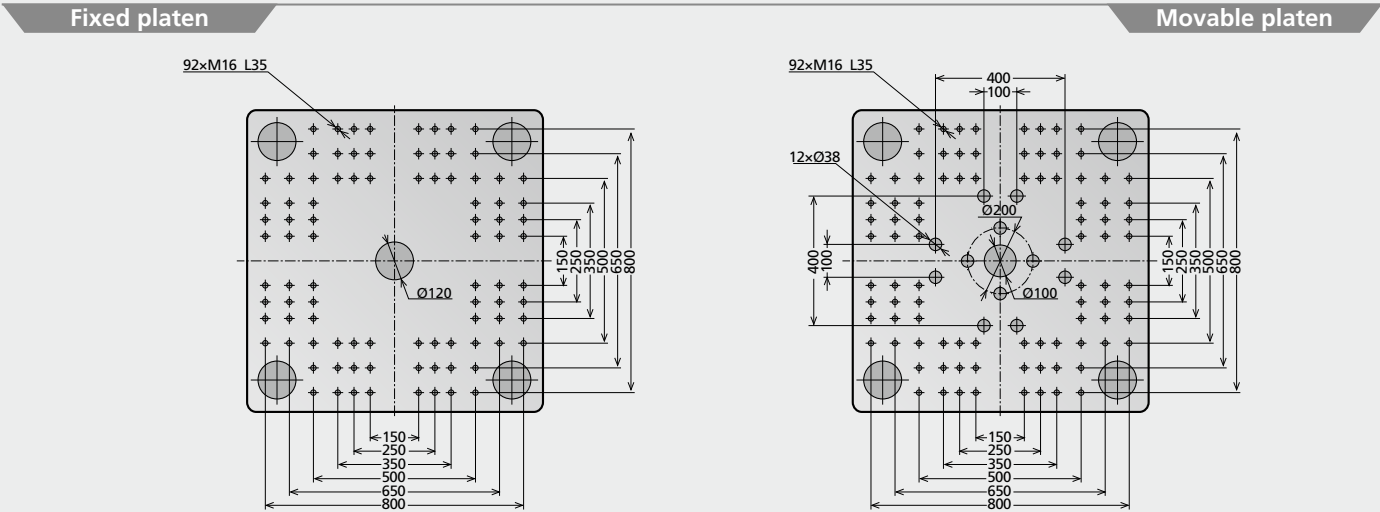
American version

unit: mm



Japanese version

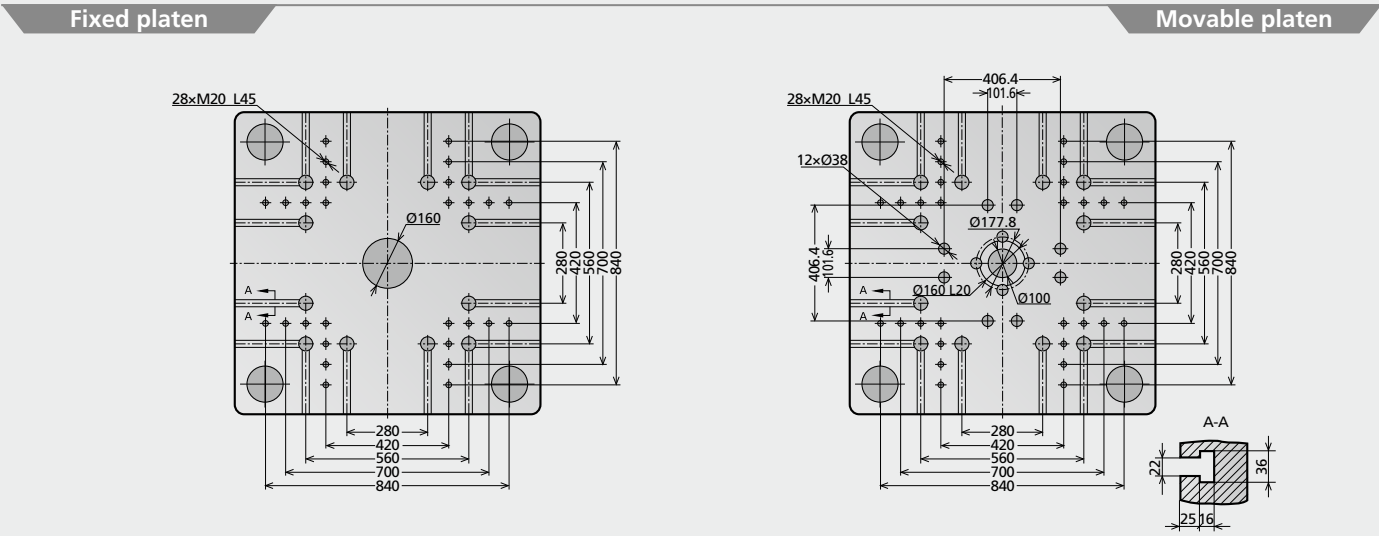
unit: mm



Platen Layout ZE3000

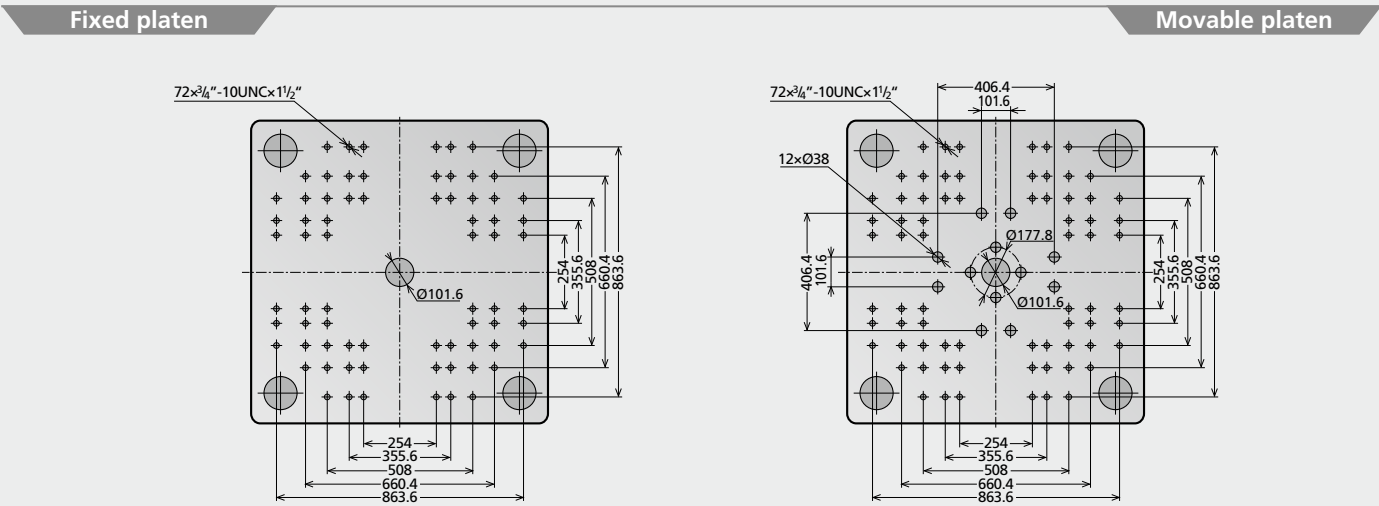
European version

unit: mm



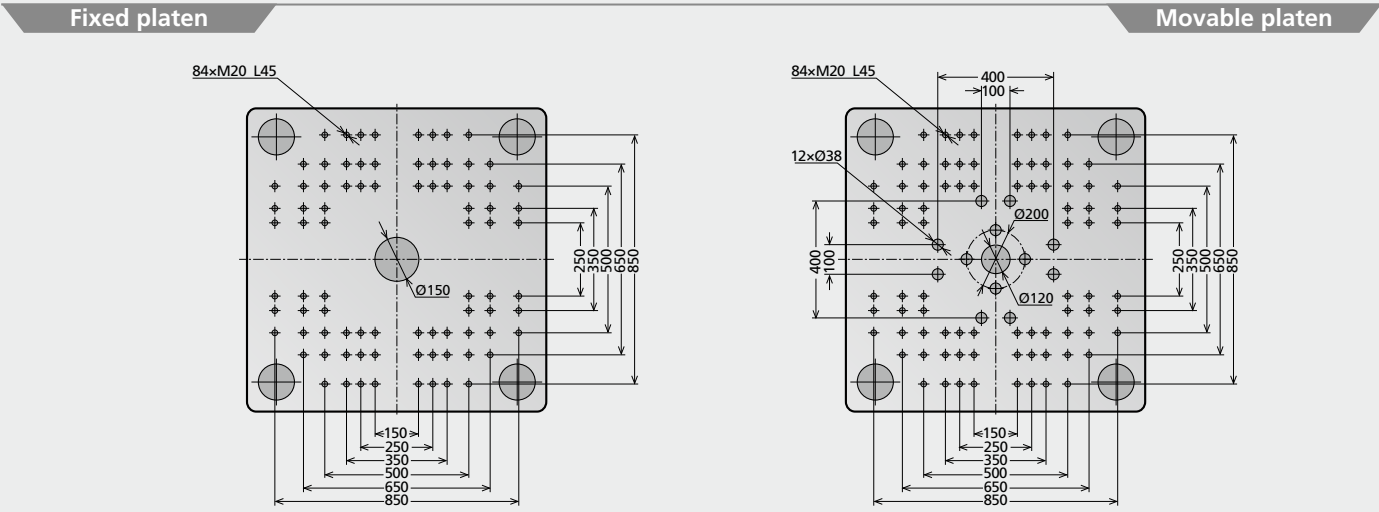
American version

unit: mm



Japanese version

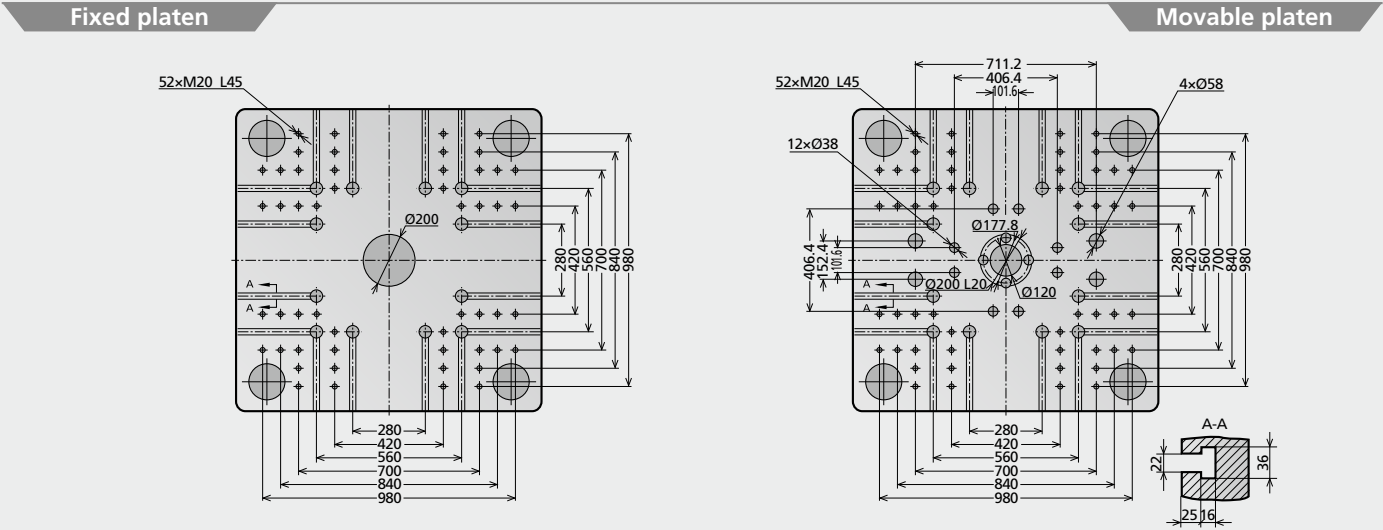
unit: mm



Platen Layout **ZE3600**

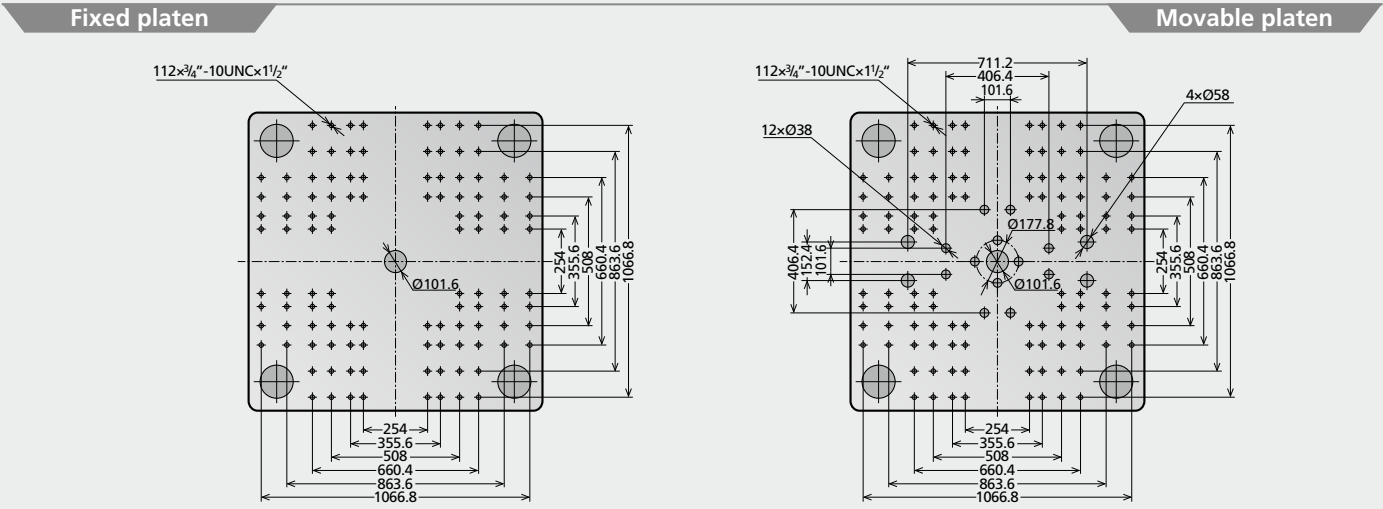
European version

unit: mm



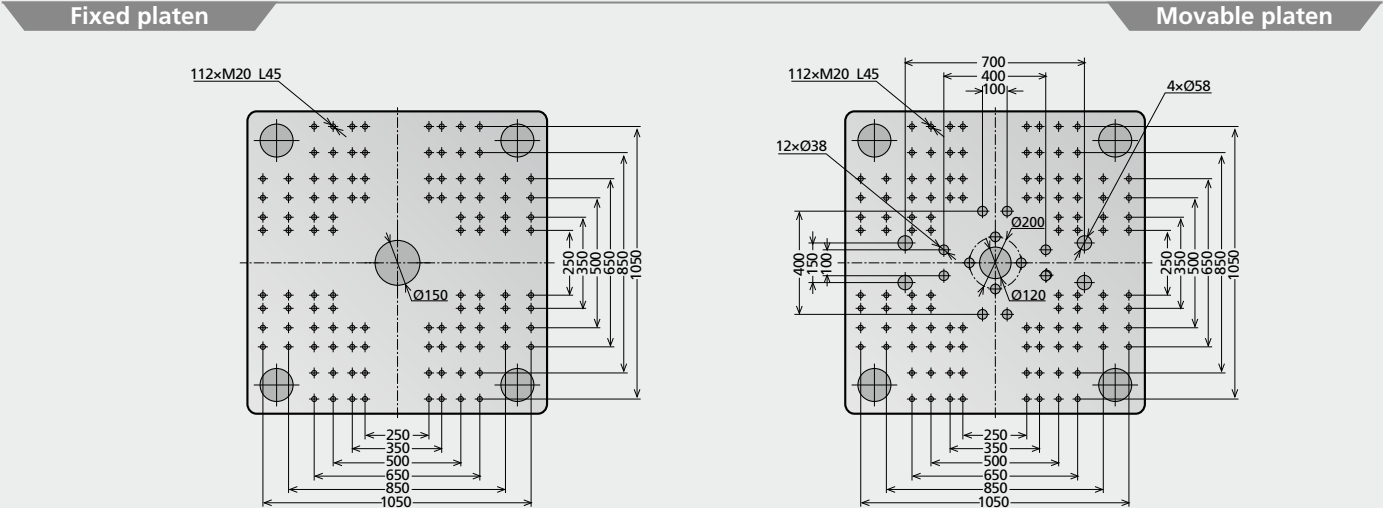
American version

unit: mm



Japanese version

unit: mm



NOTE:

Standard Equipment List

Injection Unit

- » Abrasion-resistant screw unit(open nozzle)
- » Nozzle safety guard
- » 6 Injection steps
- » 4 Pressure holding steps
- » 3 Dosing steps
- » 3 Back pressure steps
- » Screw suck back select(After holding/After dosing)
- » Screw suck back delay function
- » Injection delay function
- » Dosing delay function
- » Intrusion/filling by rotating screw
- » V/P switch over mode(position,time,pressure,speed)
- » Injection speed response mode select
- » Injection pressure segment control
- » Speed limit during holding pressure
- » Screw position setting(unit: 0.01mm)
- » Screw rotation speed setting
- » Holding pressure time setting
- » Mold open available during dosing
- » "Barrel heating closed-loop control (K/J type available)"
- » Barrel temperature holding function
- » Barrel temperature auto tuning function
- » Barrel pre-heating function
- » Barrel temperature synchronous control
- » Material overheating prevention function
- » Screw cold start prevention
- » Auto purge function

- » Screw rotation speed display
- » Setting for nozzle movement
- » Selection of nozzle retract (3 modes)
- » Nozzle contact device (adjustable)
- » Nozzle centre adjustable
- » Feeding throat temperature closed-loop control
- » Injection unit swiveling device
- » Independent nozzle temperature control

Clamping unit

- » 6 mold moving steps
- » Mold safety protection
- » Mold setup mode
- » Injection compression function
- » Clamping force pre-release during cooling
- » Injection during clamping(Pre-injection)
- » 2 Step mold close/clamp process
- » In mold cut function (ejector activate when mold closed)
- » Clamping safety device(Mechanical and Electrical)
- » Adjustable moving platen support
- » Clamping force setting
- » Ejector device
- » Ejector function deactivatable
- » 3 Ejector steps
- » Ejector forward delay function
- » Ejector vibration function
- » Ejector A/B function(2 steps ejector stroke)
- » Eject on the fly

- » Ejector plate return signal confirmation
- » Cooling water distributor(6 sets up to 1500kN, 8 sets for others)
- » In mold ejector pin protection interface
- » Mold installation mode (Low speed mold move)
- » Needle shut off nozzle interface (one spare electrical interface)
- » Emergency stop(Operating and Non-operating sides)
- » Robot mounting layout
- » Central lubrication system
- » S-curve flexible control for mold movement
- » Hydraulic core interface(programmable)

Controller & Monitor

- » 15 inch TFT color touch screen
- » Mold profile data memory (up to 200 sets)
- » Alarm history
- » Data setting record
- » 3 USB R/W interface
- » Injection pressure speed curve display and record
- » Euromap 12 robot interface
- » Multi-language available(Chinese, German, English, Japanese etc.)
- » Metric/Imperial unit select
- » I/O monitor display
- » Printer interface(USB connector)
- » Production cycle monitor
- » Production profile monitor

- » Production data record(5000 cycles display, 100,000 cycles record)
- » Production data graphics
- » Quality parameters tolerance setting
- » Quality abnormal alarm
- » Cycle counter
- » Machine overview display
- » Main data setting fast access
- » Machine maintenance administration
- » Clamping force curve display
- » Barrel temperature monitor
- » Display cycle time sequence in each phase
- » 3 Color alarm lamp(red/yellow/green)
- » Alarm buzzer
- » Injection overfill prevention (HPM)
- » Display of actual performance data
- » Multi-action selectable during machine alarm

Others

- » Standard Zhafir color
- » Adjustable machine pads
- » 3 Power sockets
- » Standard hopper
- » Mold clamber
- » T-screw nuts(for T-slot use)
- » Tools box
- » Spare parts

Options List

Injection Unit

- » Chrome-plating screw unit
- » Corrosion and abrasion resistant screw unit
- » High capacity nozzle heat band
- » Extended nozzle
- » V/P switch based on in-mold pressure
- » Needle shut off nozzle
- » Spring nozzle
- » Nozzle head customization
- » Stainless steel hopper

Clamping unit

- » Air blow
- » Pneumatic ejector
- » Pneumatic core interface (Programable)
- » Valve Gate control interface
- » Glass tube water flowmeter
- » Customized mold platen(T-slot,threaded holes)
- » Mold unscrew electrical interface
- » Mold height extension
- » Mold slide block protection interface
- » Eject compression function
- » Mold auto clamp device (Pneumatic/hydraulic)
- » Intergrated hot runner controller

- » Product drop plate
- » Automatic safety gate on operator side
- » Clamping force automatically controller
- » Quality flap
- » Product drop detector

Controller & Monitor

- » Mold temperature display and control
- » Quality flap interface
- » Heating disconnect detection function
- » Additional cooling water distributor
- » External transformer
- » Euromap 67 robot interface
- » Gas-assisted injection interface
- » Magnetic platen interface
- » Mold cavity pressure detection interface

Others

- » Infrared barrel heating band
- » Barrel heating insulation cover
- » CE certification
- » UL certification

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