

ES 90-450T

All Electric IMM
Technical Parameters



TUP . 202502 . 01B

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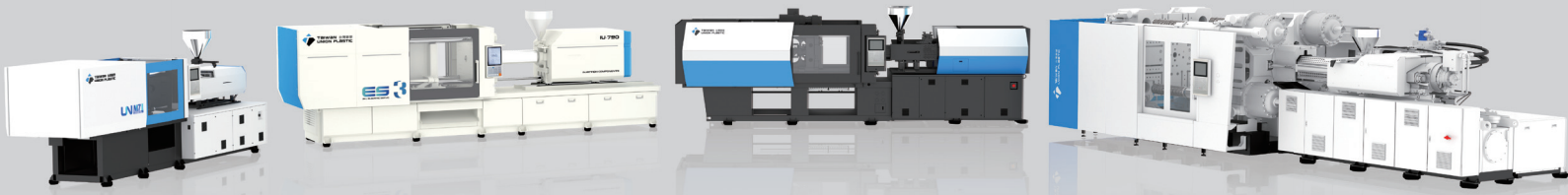
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TUP

TUP was set up in 1984, It is one of the most advanced injection molding equipment manufacturers and complete system solution providers in China.

TUP provides the machines ranging from 90 to 6,600 tons, with the machine matrix of All-electric, Hybrid electric, Multi-components, Two / Three platens, which covers almost all main applications in automotive, packaging, medicals, engineering, 3C, home appliance, logistics etc.

The headquarter is located in hangzhou, zheiiang province, and the other remaining 15 branch offices, sales & service offices are located in China, SEA, America, Europe, Affrica provide the nearby service to our customers.

With regarding to the capability, we have 200,000 square meters of manufacturing base, staffs over 500, annual machine output over 60,000 sets, R&D teams with around 100 skilled people, and annual R&D investment over 50 million of RMB, which coming to 100+ patents and more are on the que.

Technology, never stopping has always been our driving force to proceed. We are striving efforts to make constant progress, taking environmental protection, energy saving and high efficiency as our responsibilities, and are committed to providing customers with more comprehensive and valuable application solutions.



1984
Brand Story



500+
Global Employees



80,000+
Annual Sales by Sets



6,000+
Annual Capacity



100+
Service Regions



200,000m²
Factory Area



TUP-01

TUP-02



All Electric IMM

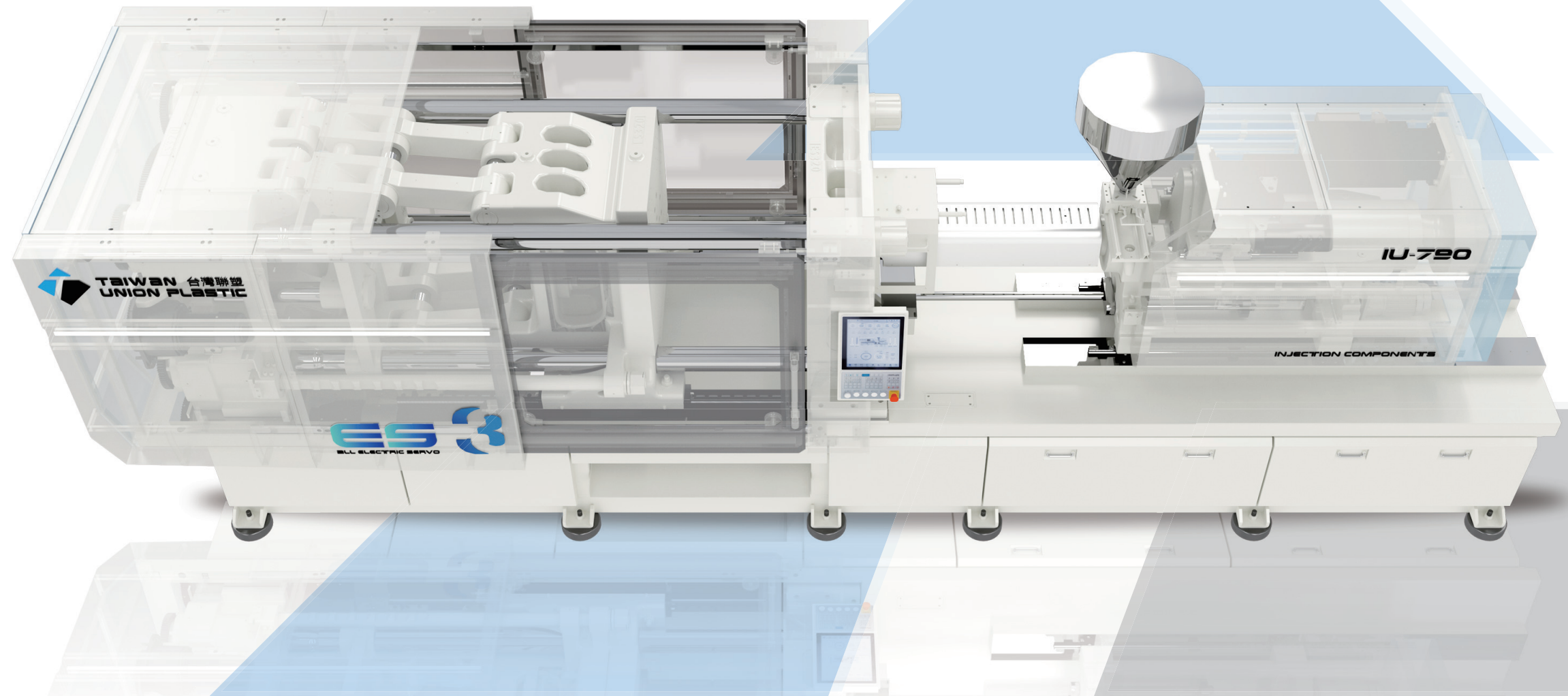
Clamping force ranges from 90-450t, pioneering with the leading dry cycle time and the motion control performnace both in high speed and long holding applications. And the framwork of modular concepts enrich the machine the magic expandability to the multi K and hybrid functions dedicated for the packag-ing, medical, auto and other engineering applications.

Standard injection speed: 200~350mm/s
High injection speed: 450~800mm/s

Application Area



900-4,500kN



MORE PRECISE

Repeatable accuracy of the platen motion position<0.01 mm
Injection position accuracy<0.01 mm
Repeatable accuracy of Injection motion 0.01%



MORE ENERGY EFFICIENT

Save more than 30% energy compared to hydraulic presses
The uptime ratio can be over 95%
Booster for excellent ESG



FASTER

The maximum injection speed can reach 450mm/s
Dry cycle time improved by 20%
Injection response speed<40ms



MORE ADAPTABILITY

Modular design, Flexible combination schemes such as hybrid power, dual plate structure, and electric multi-color.
Multiple levels of hold pressure response mode are available, with multiple injection speeds.

ES90 SPECIFICATIONS

Clamping Unit	Unit	ES90
Clamping Force	kN	900
Mold Opening Stroke	mm	320
Min. Mold Height	mm	150
Max. Mold Height	mm	410
Max. Daylight	mm	730
Platen Size (HxV)	mm	620 × 570
Tie Bar Space (HxV)	mm	420 × 370
Min.Mould Dimension	mm	270 × 270
Max.Mould Weight	t	0.5
Ejection Stroke	mm	80
Ejection Force	kN	20
No.of Ejector Pin Holes	/	5

Injection Unit	Unit	IU60			IU90			IU180		
		A	B	C	A	B	C	A	B	C
Screw Diameter	mm	16	18	20	20	22	26	26	30	34
Screw L/D Ratio	L/D	23.0	22.2	20.0	23.0	23.0	19.5	23.0	23.0	20.0
Theoretical Shot Volume	cm³	20	25	31	35	42	58	64	85	109
Injection Pressure	MPa	259	204	166	266	242	173	283	212	165
Holding Pressusre	MPa	207	163	132	213	194	139	226	170	132
Shot Weight (PS)	g	18	23	29	31	38	53	58	77	99
Plasticizing Capacity (PS)	g/s	4	5	6	6	7	10	10	13	16
Injection Rate (Standard/High)	g/s	64 / 82	81 / 104	100 / 129	57 / 129	69 / 156	97 / 217	97 / 217	129 / 289	165 / 372
Injection Speed (Standard/High)	mm/s	350 / 450			200 / 450			200 / 450		
Plasticizing Stroke	mm	100			110			120		
Screw Rotation Speed	rpm	400			400			400		
Nozzle Contact Force	kN	20			25			25		

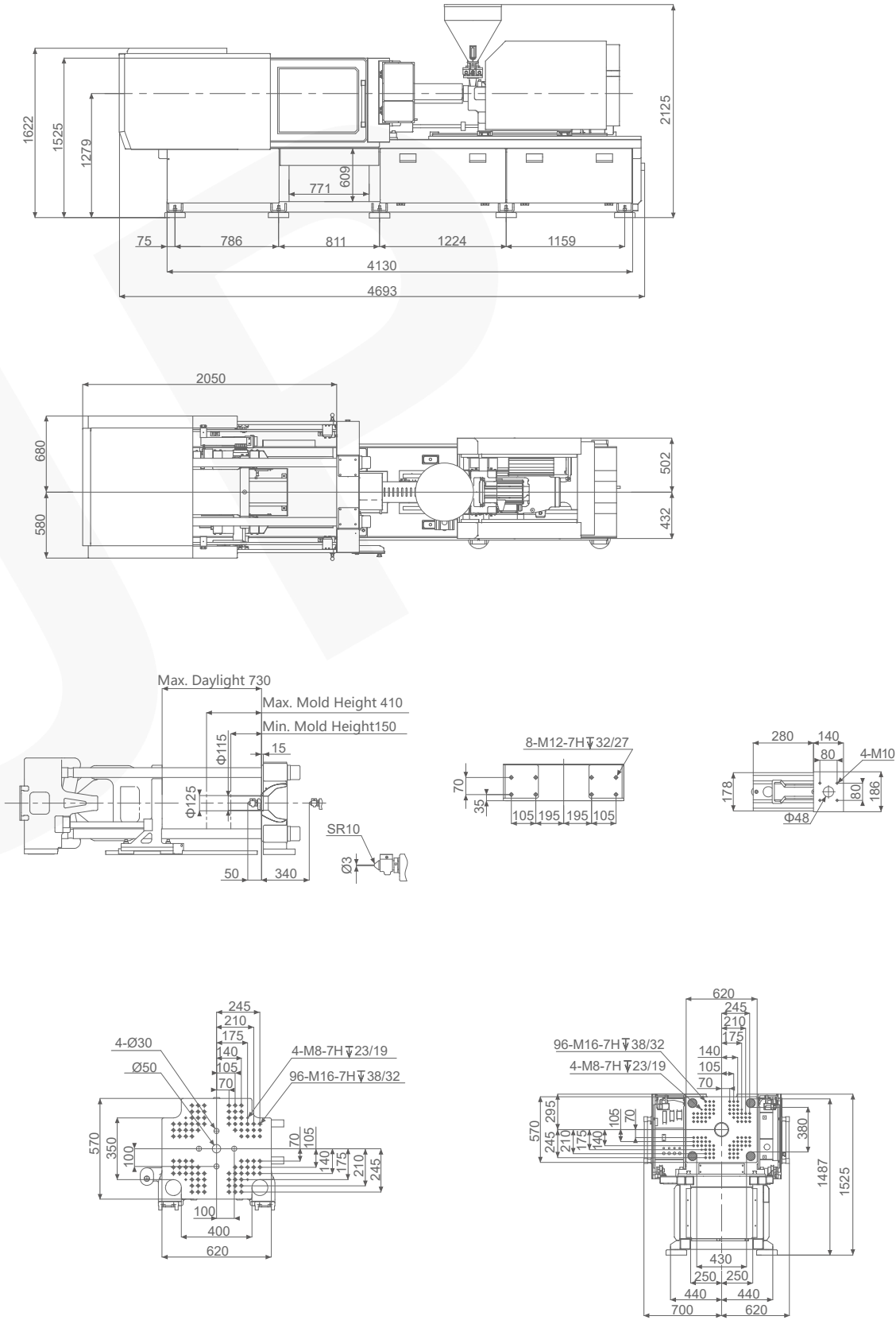
General Data	Unit	IU60			IU90			IU180		
Total Power (Standard/High)	kW	9.7/11.7	10.0/12.0	10.0/12.0	16.2/25.0	17.3/26.1	17.3/26.1	17.0/30.6	18.3/31.9	18.3/31.9
Heating Capacity	kW	4.2	4.5	4.5	5.7	6.8	6.8	6.5	7.8	7.8
Motor Power (Standard/High)	kW	5.5 / 7.5			10.5 / 19.3			10.5 / 24.1		
Heating Zones	/	5			5			5		
Theoretical Weight	t	4.2			4.3			4.4		
Machine Dim. (L×W×H)	m	4.7×1.3×1.6								

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ES90 Machine Size



Unit: mm

ES120 SPECIFICATIONS

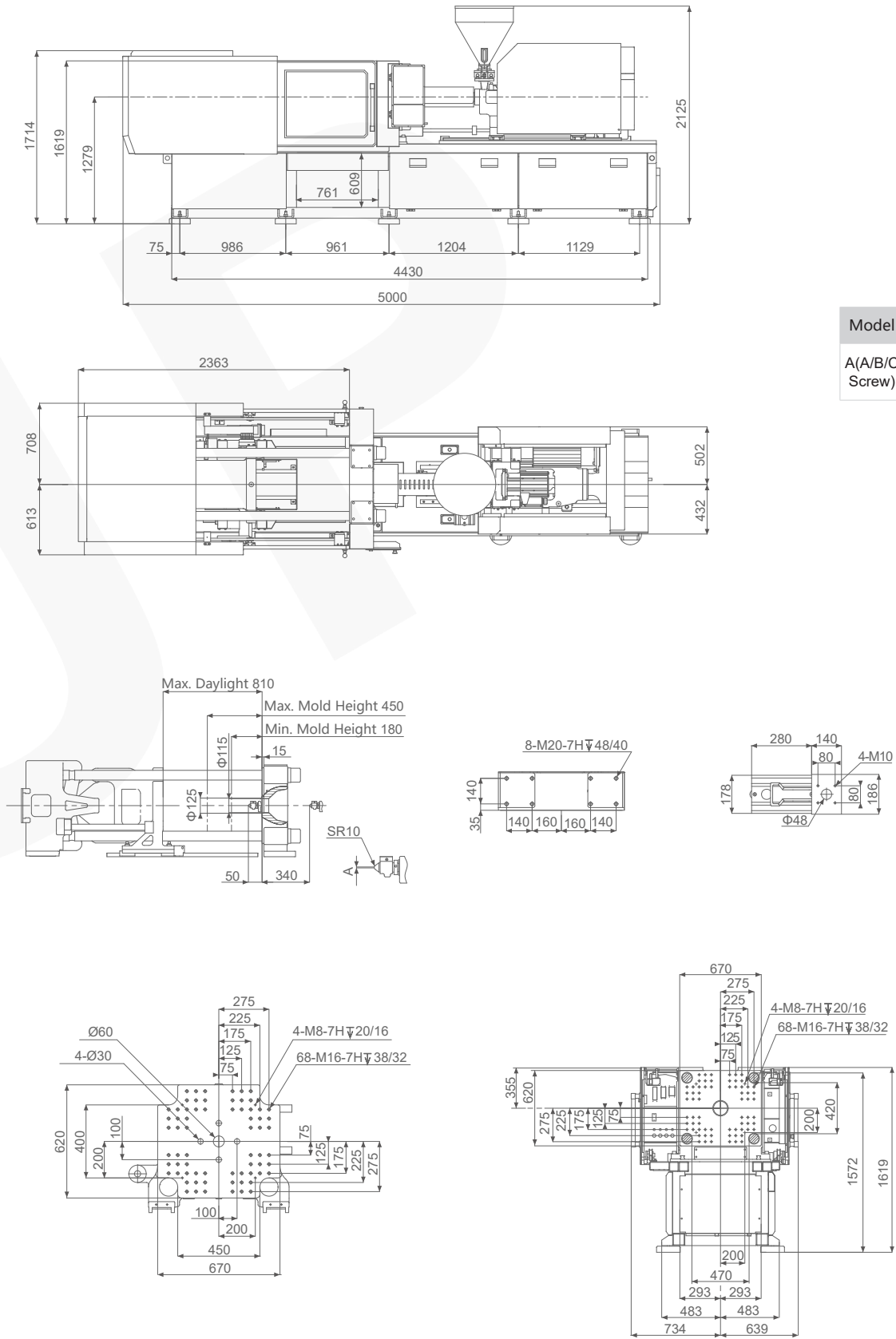
Clamping Unit	Unit	ES120
Clamping Force	kN	1200
Mold Opening Stroke	mm	360
Min. Mold Height	mm	180
Max. Mold Height	mm	450
Max. Daylight	mm	810
Platen Size (HxV)	mm	670 × 620
Tie Bar Space (HxV)	mm	470 × 420
Min.Mould Dimension	mm	305 × 270
Max.Mould Weight	t	0.7
Ejection Stroke	mm	110
Ejection Force	kN	40
No.of Ejector Pin Holes	/	5

Injection Unit	Unit	IU180			IU260		
		A	B	C	A	B	C
Screw Diameter	mm	26	30	34	30	34	38
Screw L/D Ratio	L/D	23.0	23.0	20.0	23.0	22.4	20.0
Theoretical Shot Volume	cm³	64	85	109	99	127	159
Injection Pressure	MPa	283	212	165	272	212	169
Holding Pressusre	MPa	226	170	132	217	169	136
Shot Weight (PS)	g	58	77	99	90	116	144
Plasticizing Capacity (PS)	g/s	10	13	16	13	18	23
Injection Rate (Standard/High)	g/s	97 / 217	129 / 289	165 / 372	129 / 289	165 / 372	206 / 464
Injection Speed (Standard/High)	mm/s	200 / 450			200 / 450		
Plasticizing Stroke	mm	120			140		
Screw Rotation Speed	rpm	400			400		
Nozzle Contact Force	kN	25			25		

General Data	Unit	IU180			IU260		
Total Power (Standard/High)	kW	17.0 / 30.6	18.3 / 31.9	18.3 / 31.9	23.5 / 39.2	25.7 / 41.4	25.7 / 41.4
Heating Capacity	kW	6.5	7.8	7.8	7.8	10.0	10.0
Motor Power (Standard/High)	kW	10.5 / 24.1			15.7 / 31.4		
Heating Zones	/	5			5		
Theoretical Weight	t	5.8			5.9		
Machine Dim. (L×W×H)	m	5.0×1.4×1.7					

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ES120 Machine Size



Model	IU180	IU260
A(A/B/C Screw)	Ø 3	Ø 3 Ø 3 Ø 4

ES160 SPECIFICATIONS

Clamping Unit	Unit	ES160
Clamping Force	kN	1600
Mold Opening Stroke	mm	430
Min. Mold Height	mm	200
Max. Mold Height	mm	500
Max. Daylight	mm	930
Platen Size (HxV)	mm	730 × 690
Tie Bar Space (HxV)	mm	520 × 470
Min.Mould Dimension	mm	335 × 305
Max.Mould Weight	t	1
Ejection Stroke	mm	130
Ejection Force	kN	40
No.of Ejector Pin Holes	/	5

Injection Unit	Unit	IU260			IU410			
		A	B	C	A	B	C	D
Screw Diameter	mm	30	34	38	35	40	40	45
Screw L/D Ratio	L/D	23.0	22.4	20.0	23.0	22.5	25.5	20.0
Theoretical Shot Volume	cm³	99	127	159	154	201	201	254
Injection Pressure	MPa	272	212	169	270	207	207	163
Holding Pressusre	MPa	217	169	136	216	166	166	131
Shot Weight (PS)	g	90	116	144	140	183	183	232
Plasticizing Capacity (PS)	g/s	13	18	24	19	27	43	39
Injection Rate (Standard/High)	g/s	129 / 289	165 / 372	206 / 464	175 / 394	229 / 515	229 / 515	289 / 651
Injection Speed (Standard/High)	mm/s	200 / 450			200 / 450			
Plasticizing Stroke	mm	140			160			
Screw Rotation Speed	rpm	400			400			
Nozzle Contact Force	kN	25			30			

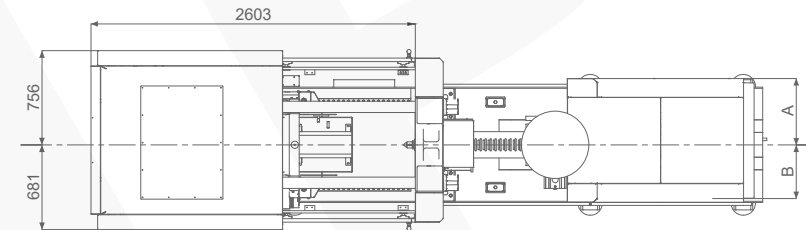
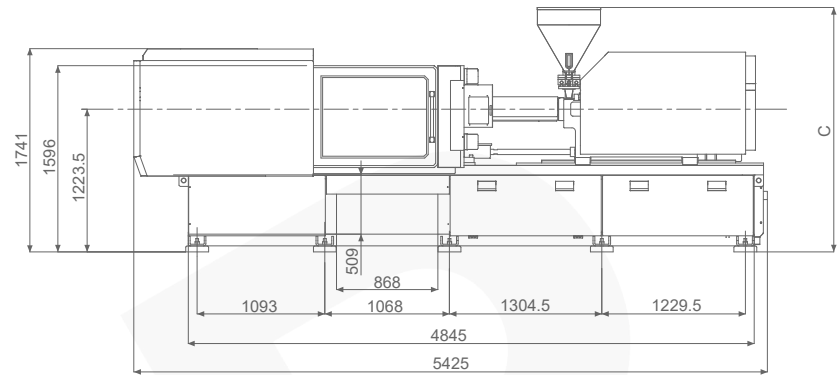
General Data	Unit	IU260			IU410			
Total Power (Standard/High)	kW	23.5 / 39.2	25.7 / 41.4	25.7 / 41.4	31.3 / 46.7	33.7 / 49.1	35.7 / 51.1	33.7 / 49.1
Heating Capacity	kW	7.8	10.0	10.0	12.0	14.4	16.4	14.4
Motor Power (Standard/High)	kW	15.7 / 31.4			19.3 / 34.7			
Heating Zones	/	5			5			
Theoretical Weight	t	6.6			6.7			
Machine Dim. (L×W×H)	m	5.5×1.5×1.8						

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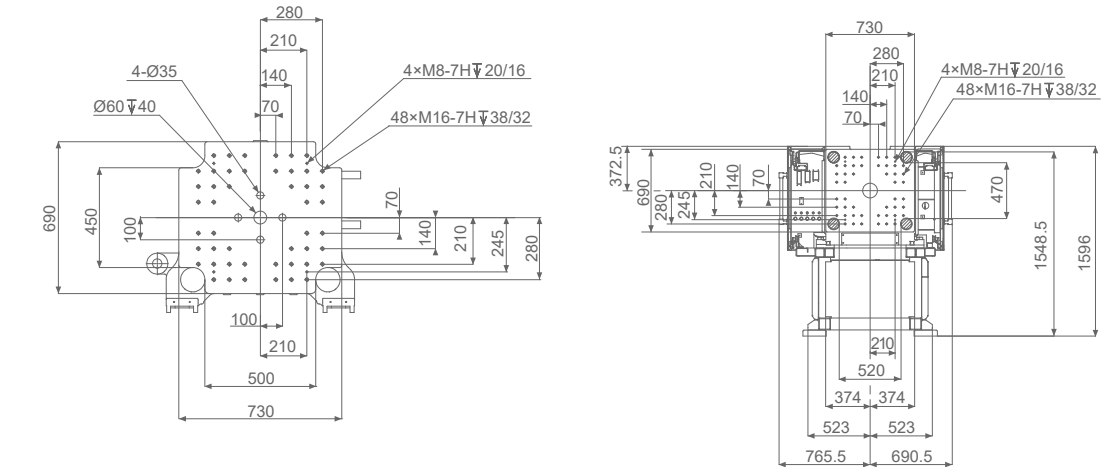
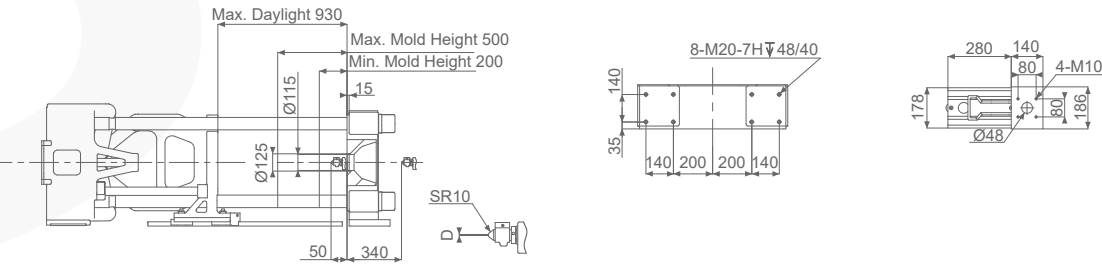
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ES160 Machine Size



Model	IU260	IU410
A	502	532
B	432	462
C	2069.5	2094.5
D(A/ B/C/D Screw)	Ø 3 Ø 3 Ø 4	Ø 3 Ø 4 Ø 4



Unit: mm

ES200 SPECIFICATIONS

Clamping Unit	Unit	ES200							
Clamping Force	kN	2000							
Mold Opening Stroke	mm	480							
Min. Mold Height	mm	250							
Max. Mold Height	mm	550							
Max. Daylight	mm	1030							
Platen Size (HxV)	mm	800 × 760							
Tie Bar Space (HxV)	mm	570 × 520							
Min.Mould Dimension	mm	370 × 335							
Max.Mould Weight	t	1.4							
Ejection Stroke	mm	150							
Ejection Force	kN	45							
No.of Ejector Pin Holes	/	9							

Injection Unit	Unit	IU410				IU580			
		A	B	C	D	A	B	C	D
Screw Diameter	mm	35	40	40	45	40	45	45	50
Screw L/D Ratio	L/D	23.0	22.5	25.5	20.0	22.5	22.2	25.5	20.0
Theoretical Shot Volume	cm³	154	201	201	254	226	286	286	353
Injection Pressure	MPa	270	207	207	163	255	201	201	163
Holding Pressusre	MPa	216	166	166	131	204	161	161	130
Shot Weight (PS)	g	140	183	183	232	206	261	261	322
Plasticizing Capacity (PS)	g/s	19	27	43	39	27	39	63	56
Injection Rate (Standard/High)	g/s	175 / 394	229 / 515	229 / 515	289 / 651	229 / 515	289 / 651	289 / 651	357 / 804
Injection Speed (Standard/High)	mm/s	200 / 450				200 / 450			
Plasticizing Stroke	mm	160				180			
Screw Rotation Speed	rpm	400				400			
Nozzle Contact Force	kN	30				30			

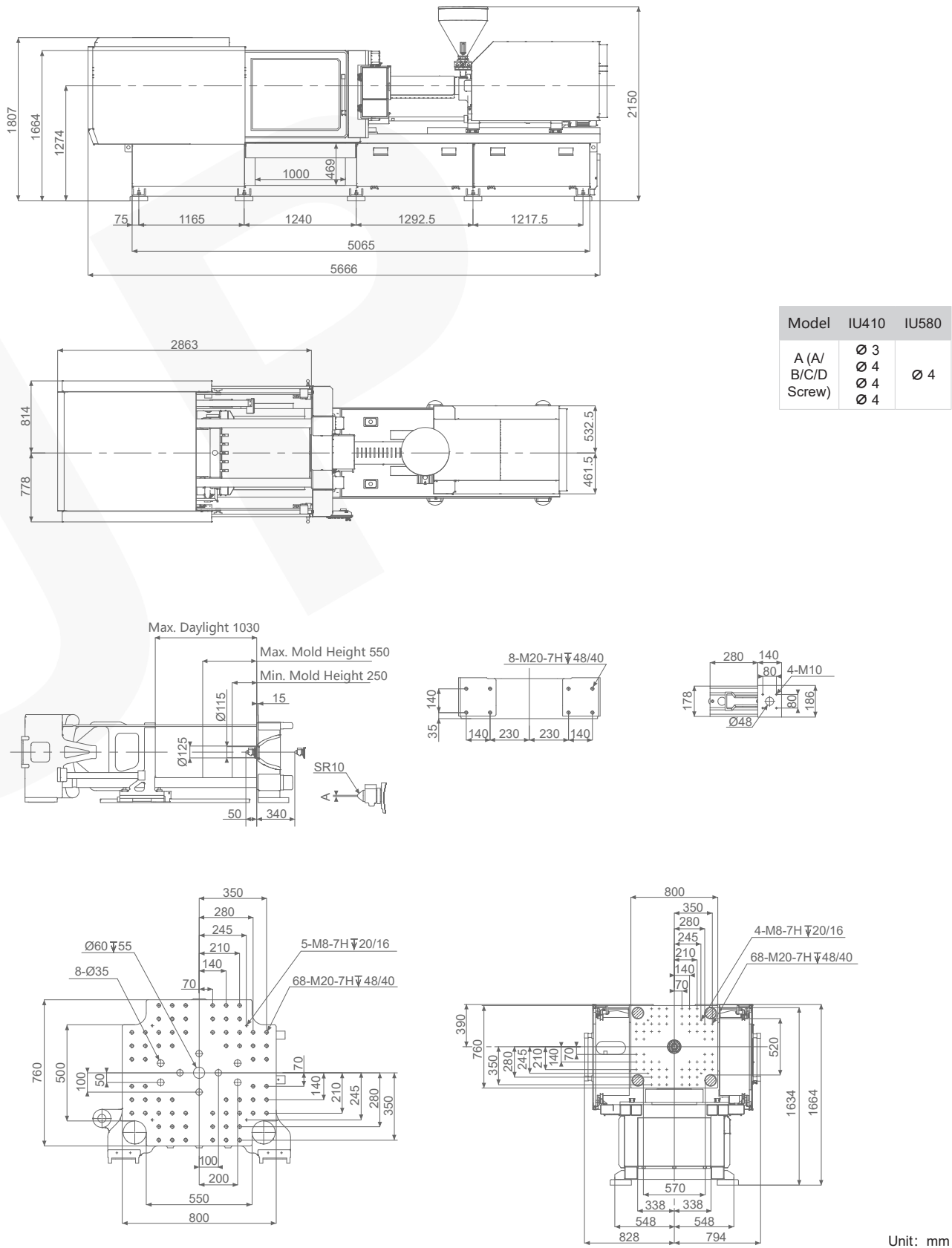
General Data	Unit	IU410				IU580			
Total Power (Standard/High)	kW	31.3/46.7	33.7/49.1	35.7/51.1	33.7/49.1	38.5/59.7	39.4/60.6	42.8/64.0	39.4/60.6
Heating Capacity	kW	12.0	14.4	16.4	14.4	14.4	15.3	18.7	15.3
Motor Power (Standard/High)	kW	19.3 / 34.7				24.1 / 45.3			
Heating Zones	/	5				5			
Theoretical Weight	t	8.5				8.7			
Machine Dim. (L×W×H)	m	5.7×1.6×1.8							

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ES200 Machine Size



Unit: mm

ES260 SPECIFICATIONS

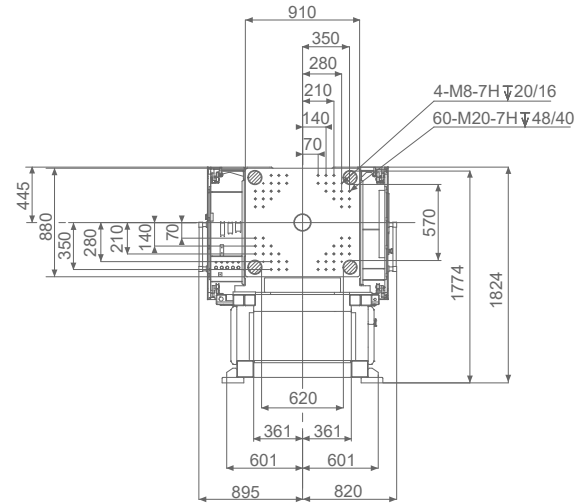
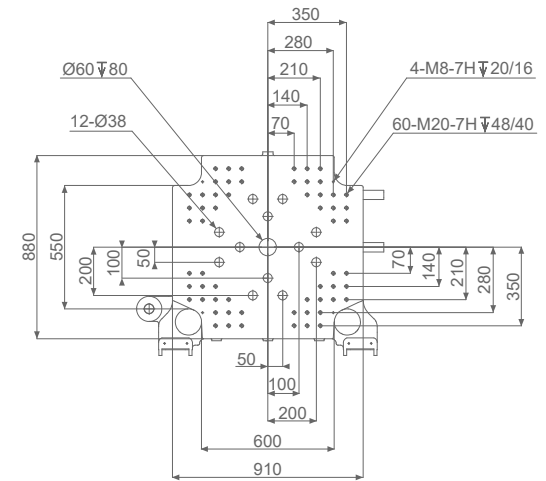
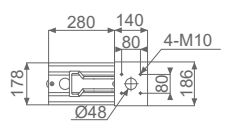
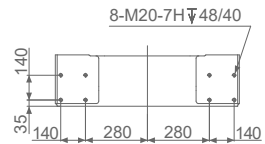
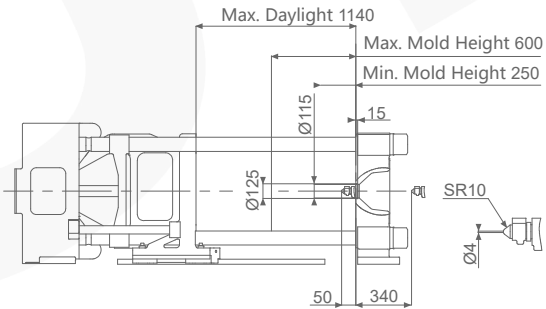
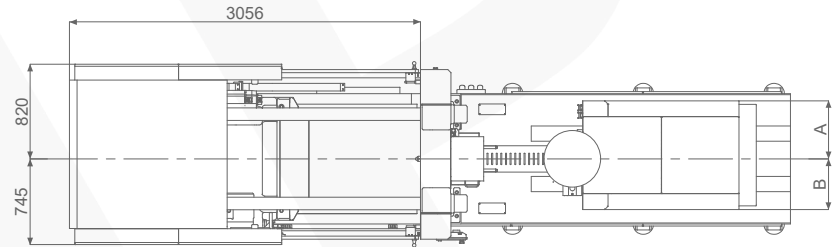
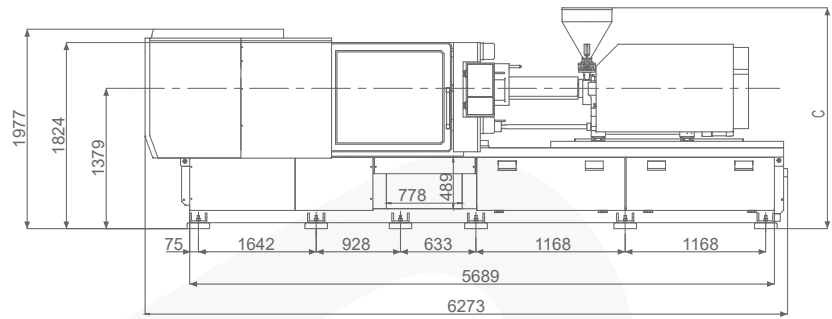
Clamping Unit	Unit	ES260
Clamping Force	kN	2600
Mold Opening Stroke	mm	540
Min. Mold Height	mm	250
Max. Mold Height	mm	600
Max. Daylight	mm	1140
Platen Size (HxV)	mm	910 × 880
Tie Bar Space (HxV)	mm	620 × 570
Min.Mould Dimension	mm	400 × 400
Max.Mould Weight	t	2
Ejection Stroke	mm	160
Ejection Force	kN	59
No.of Ejector Pin Holes	/	13

Injection Unit	Unit	IU580				IU790			
		A	B	C	D	A	B	C	D
Screw Diameter	mm	40	45	45	50	45	50	50	55
Screw L/D Ratio	L/D	22.5	22.2	25.5	20.0	23.0	22.0	25.5	20.0
Theoretical Shot Volume	cm³	226	286	286	353	318	393	393	475
Injection Pressure	MPa	255	201	201	163	249	202	202	167
Holding Pressusre	MPa	204	161	161	130	199	161	161	133
Shot Weight (PS)	g	206	261	261	322	289	357	357	432
Plasticizing Capacity (PS)	g/s	27	39	63	56	34	49	80	63
Injection Rate (Standard/High)	g/s	229 / 515	289 / 651	289 / 651	357 / 804	289 / 651	357 / 804	357 / 804	432 / 973
Injection Speed (Standard/High)	mm/s	200 / 450				200 / 450			
Plasticizing Stroke	mm	180				200			
Screw Rotation Speed	rpm	400				350			
Nozzle Contact Force	kN	30				40			

General Data	Unit	IU580				IU790			
Total Power (Standard/High)	kW	38.5/59.7	39.4/60.6	42.8/64.0	39.4/60.6	41.8/70.6	42.4/71.2	45.3/74.1	42.4/71.2
Heating Capacity	kW	14.4	15.3	18.7	15.3	17.7	18.3	21.2	18.3
Motor Power (Standard/High)	kW	24.1 / 45.3				24.1 / 52.9			
Heating Zones	/	5				5	5	6	5
Theoretical Weight	t	11.3				11.6			
Machine Dim. (L×W×H)	m	6.5×1.8×2.0							

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ES260 Machine Size



Unit: mm

ES320 SPECIFICATIONS

Clamping Unit	Unit	ES320
Clamping Force	kN	3200
Mold Opening Stroke	mm	600
Min. Mold Height	mm	300
Max. Mold Height	mm	720
Max. Daylight	mm	1320
Platen Size (HxV)	mm	1020 × 970
Tie Bar Space (HxV)	mm	730 × 680
Min.Mould Dimension	mm	470 × 470
Max.Mould Weight	t	2.5
Ejection Stroke	mm	170
Ejection Force	kN	68
No.of Ejector Pin Holes	/	13

Injection Unit	Unit	IU790				IU1000			
		A	B	C	D	A	B	C	D
Screw Diameter	mm	45	50	50	55	50	55	55	62
Screw L/D Ratio	L/D	23.0	22.0	25.5	20.0	23.0	22.5	25.5	20.0
Theoretical Shot Volume	cm³	318	393	393	475	432	523	523	664
Injection Pressure	MPa	249	202	202	167	244	202	202	159
Holding Pressusre	MPa	199	161	161	133	196	162	162	127
Shot Weight (PS)	g	289	357	357	432	393	476	476	604
Plasticizing Capacity (PS)	g/s	34	49	80	63	49	63	102	88
Injection Rate (Standard/High)	g/s	289 / 651	357 / 804	357 / 804	432 / 973	357 / 804	432 / 973	432 / 973	549 / 1236
Injection Speed (Standard/High)	mm/s	200 / 450				200 / 450			
Plasticizing Stroke	mm	200				220			
Screw Rotation Speed	rpm	350				350			
Nozzle Contact Force	kN	40				50			

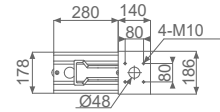
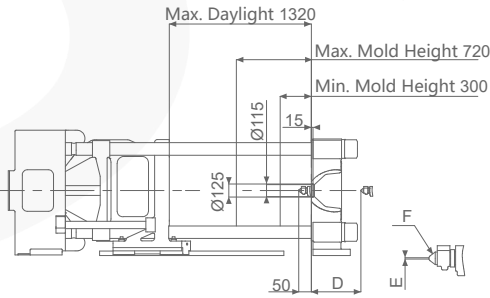
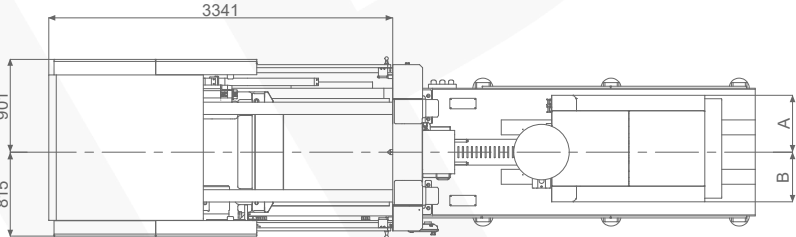
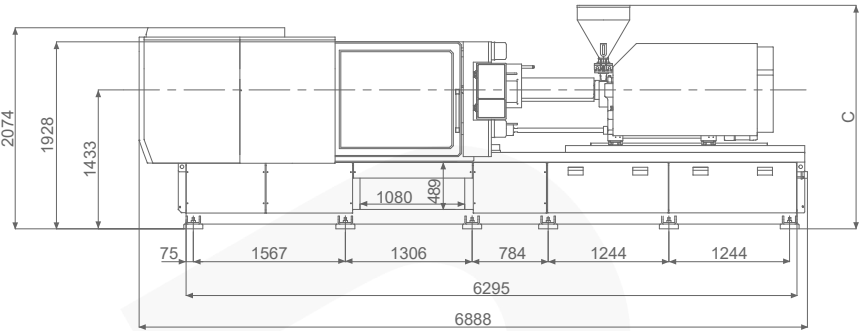
General Data	Unit	IU790				IU1000			
Total Power (Standard/High)	kW	41.8/70.6	42.4/71.2	45.3/74.1	42.4/71.2	50/109.6	53.6/113.2	57/116.6	53.6/113.2
Heating Capacity	kW	17.7	18.3	21.2	18.3	18.6	22.2	25.6	22.2
Motor Power (Standard/High)	kW	24.1 / 52.9				31.4 / 91			
Heating Zones	/	5	5	6	5	6			
Theoretical Weight	t	14.5				15.8			
Machine Dim. (L×W×H)	m	6.9×1.8×2.1							

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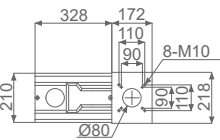
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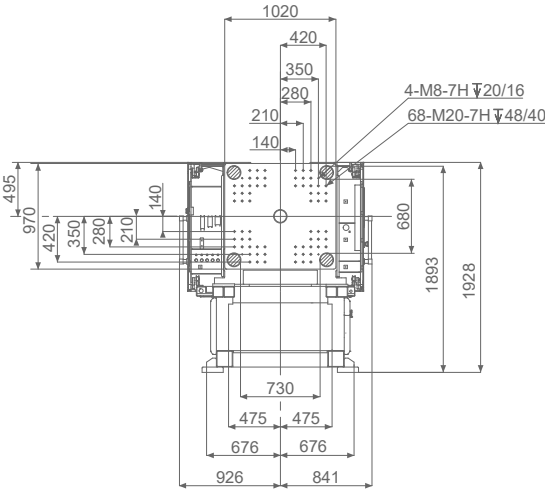
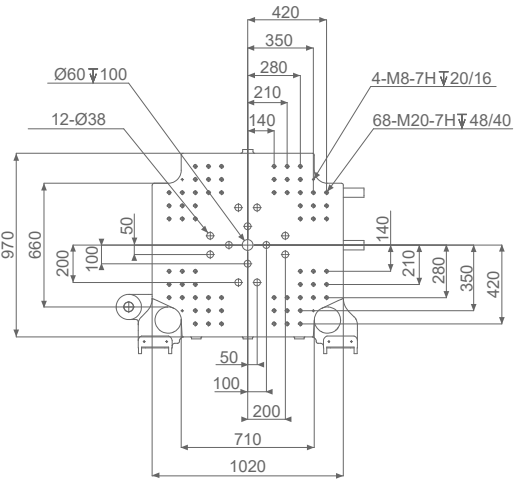
ES320 Machine Size



IU790



IU1000



Unit: mm

General Data	Unit	IU1000				IU1400			
Total Power (Standard/High)	kW	50/109.6	53.6/113.2	57/116.6	53.6/113.2	56.9/113.2	60.3/116.6	61.4/117.7	60.3/116.6
Heating Capacity	kW	18.6	22.2	25.6	22.2	22.2	25.6	26.7	25.6
Motor Power (Standard/High)	kW	31.4 / 91				34.7 / 91			
Heating Zones	/	6				6			
Theoretical Weight	t	21.7				21.9			
Machine Dim. (L×W×H)	m	7.6×1.9×2.2							

TUP-17

TUP-18

ES380 Wide-Platen SPECIFICATIONS

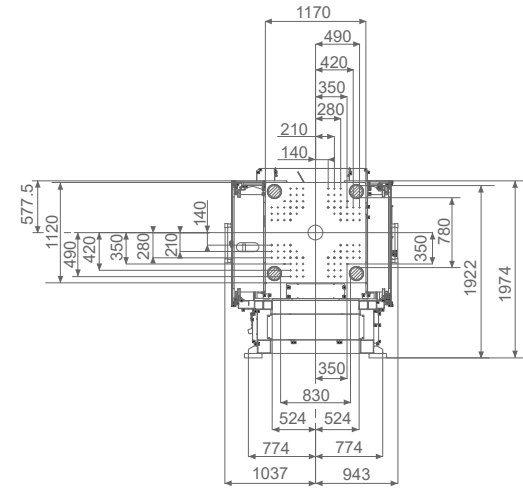
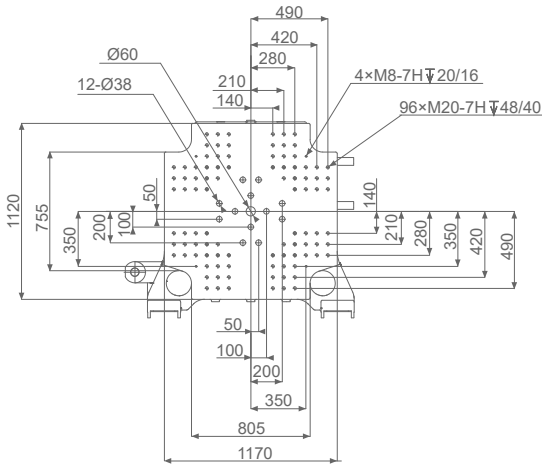
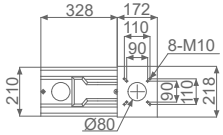
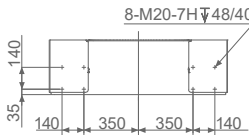
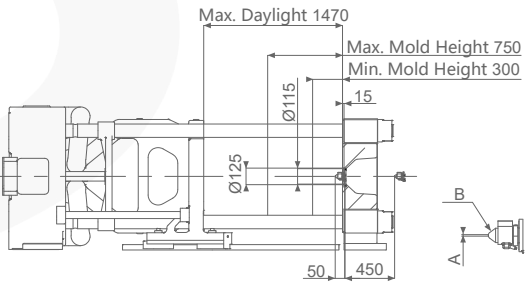
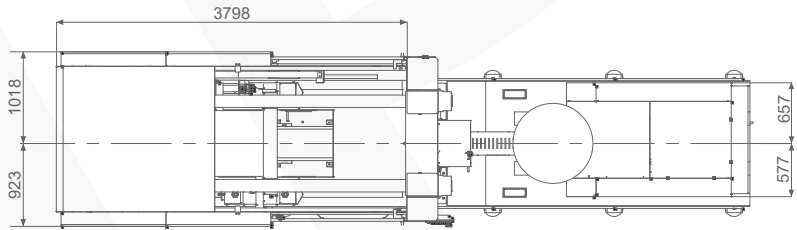
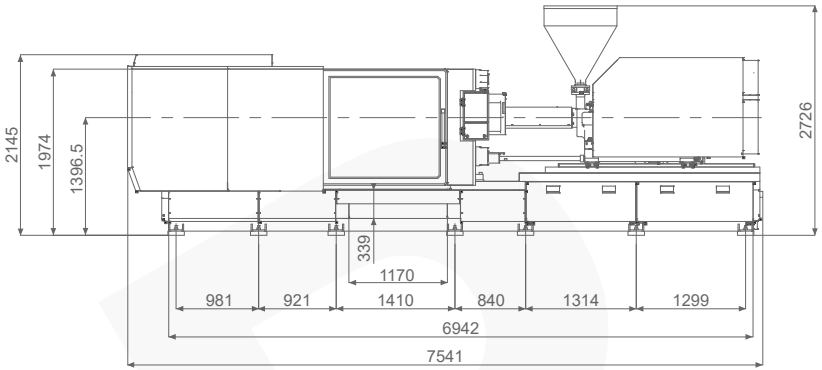
Clamping Unit	Unit	ES380
Clamping Force	kN	3800
Mold Opening Stroke	mm	720
Min. Mold Height	mm	300
Max. Mold Height	mm	750
Max. Daylight	mm	1470
Platen Size (HxV)	mm	1170 × 1120
Tie Bar Space (HxV)	mm	830 × 780
Min.Mould Dimension	mm	540 × 540
Max.Mould Weight	t	3.6
Ejection Stroke	mm	180
Ejection Force	kN	108
No.of Ejector Pin Holes	/	13

Injection Unit	Unit	IU1000				IU1400			
		A	B	C	D	A	B	C	D
Screw Diameter	mm	50	55	55	62	55	62	62	70
Screw L/D Ratio	L/D	23.0	22.5	25.5	20.0	22.5	22.6	25.5	20.0
Theoretical Shot Volume	cm³	432	523	523	664	570	725	725	924
Injection Pressure	MPa	244	202	202	159	248	195	195	153
Holding Pressusre	MPa	196	162	162	127	199	156	156	123
Shot Weight (PS)	g	393	476	476	604	519	659	659	841
Plasticizing Capacity (PS)	g/s	49	63	102	88	63	88	142	120
Injection Rate (Standard/High)	g/s	357 / 804	432 / 973	432 / 973	549 / 1236	432 / 757	549 / 962	549 / 962	700 / 1226
Injection Speed (Standard/High)	mm/s	200 / 450				200 / 350			
Plasticizing Stroke	mm	220				240			
Screw Rotation Speed	rpm	350				350			
Nozzle Contact Force	kN	50				50			

General Data	Unit	IU1000				IU1400			
Total Power(Standard/High)	kW	50/109.6	53.6/113.2	57/116.6	53.6/113.2	56.9/113.2	60.3/116.6	61.4/117.7	60.3/116.6
Heating Capacity	kW	18.6	22.2	25.6	22.2	22.2	25.6	26.7	25.6
Motor Power(Standard/High)	kW	31.4 / 91				34.7 / 91			
Heating Zones	/	6				6			
Theoretical Weight	t	21.7				21.9			
Machine Dim. (L×W×H)	m	7.6×1.9×2.2							

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If you have any other special requirements, please contact us.

ES380 Wide Platen Machine Size



Unit: mm

ES450 SPECIFICATIONS

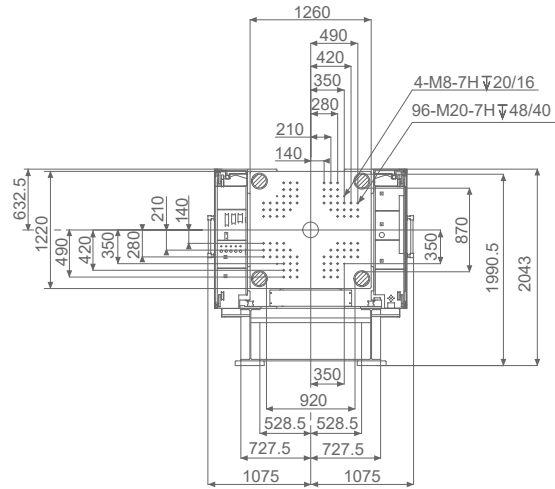
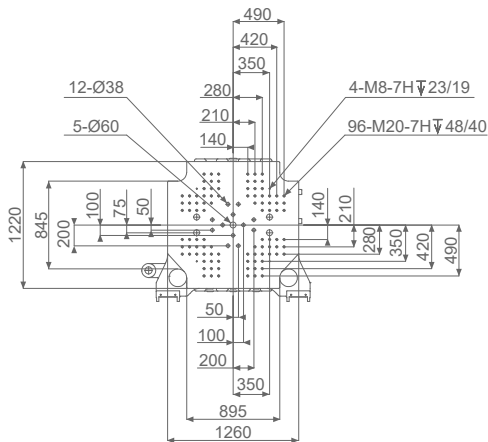
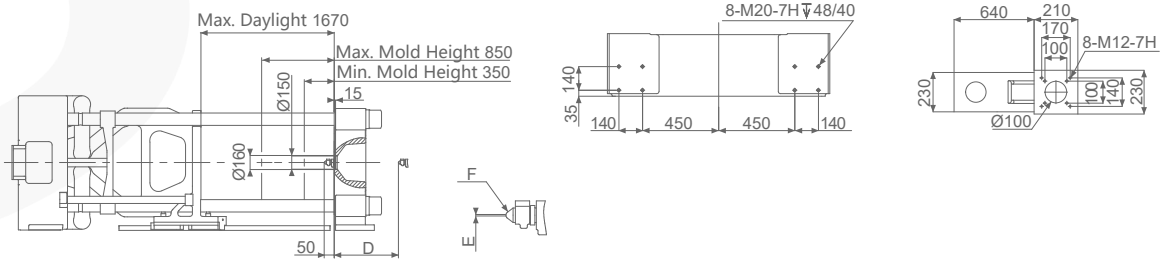
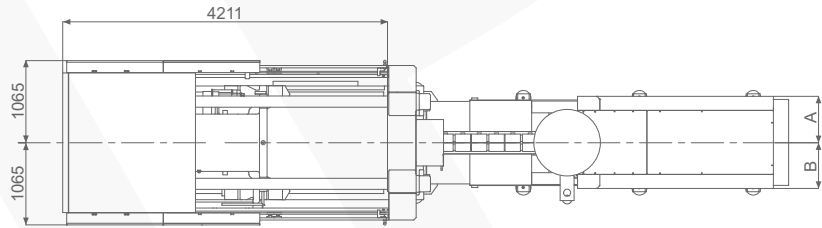
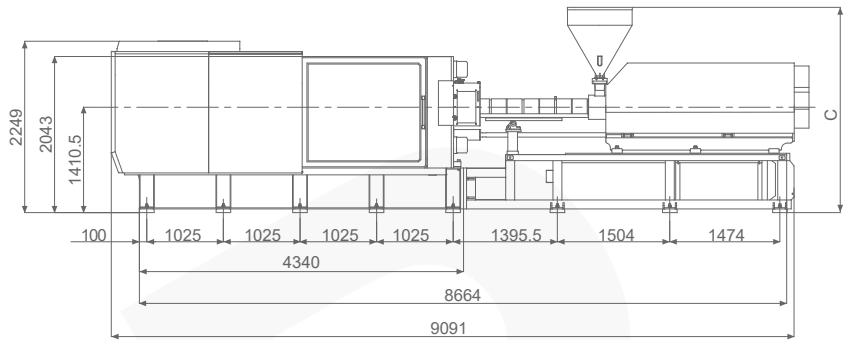
Clamping Unit	Unit	ES450
Clamping Force	kN	4500
Mold Opening Stroke	mm	820
Min. Mold Height	mm	350
Max. Mold Height	mm	850
Max. Daylight	mm	1670
Platen Size (HxV)	mm	1260 × 1220
Tie Bar Space (HxV)	mm	920 × 870
Min.Mould Dimension	mm	645 × 580
Max.Mould Weight	t	7
Ejection Stroke	mm	220
Ejection Force	kN	108
No.of Ejector Pin Holes	/	17

Injection Unit	Unit	IU1400				IU2100				IU3100			
		A	B	C	D	A	B	C	D	A	B	C	D
Screw Diameter	mm	55	62	62	70	62	70	70	80	70	80	80	90
Screw L/D Ratio	L/D	23.0	22.6	25.5	20.0	23.0	22.9	25.5	20.0	23.0	22.5	25.5	20.0
Theoretical Shot Volume	cm³	570	725	725	924	845	1078	1078	1407	1270	1659	1659	2099
Injection Pressure	MPa	248	195	195	153	252	197	197	151	244	187	187	148
Holding Pressusre	MPa	199	156	156	123	201	158	158	121	195	150	150	118
Shot Weight (PS)	g	519	659	659	841	769	981	981	1281	1156	1509	1509	1910
Plasticizing Capacity (PS)	g/s	63	88	142	120	75	103	166	147	96	147	237	187
Injection Rate (Standard/High)	g/s	432/757	549/962	549/962	700/1226	549/962	700/1226	700/1226	915/1601	560/1051	732/1372	732/1372	926/1737
Injection Speed (Standard/High)	mm/s	200 / 350				200 / 350				160 / 300			
Plasticizing Stroke	mm	240				280				330			
Screw Rotation Speed	rpm	350				300				300			
Nozzle Contact Force	kN	50				80				80			

General Data	Unit	IU1400				IU2100				IU3100			
Total Power (Standard/High)	kW	56.9/ 113.2	60.3/ 116.6	61.4/ 117.7	60.3/ 116.6	90.8/ 133.3	94.8/ 137.3	98.7/ 141.2	94.8/ 137.3	96.8/ 139.3	101.2/ 143.7	106.5/ 149	101.2/ 143.7
Heating Capacity	kW	22.2	25.6	26.7	25.6	37.9	41.9	45.8	41.9	43.9	48.3	53.6	48.3
Motor Power (Standard/High)	kW	34.7 / 91				52.9 / 95.4				52.9 / 95.4			
Heating Zones	/	6				7				7			
Theoretical Weight	t	24.1				25.9				26.2			
Machine Dim. (L×W×H)	m	9.1×2.2×2.3											

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ES450 Machine Size



Model	IU1400	IU2100	IU3100
A	657	705	705
B	577	705	705
C	2740	2833.5	2833.5
D	450	800	800
E (A/B/C/D Screw)	Ø 4 Ø 4 Ø 4 Ø 6	Ø 4 Ø 6 Ø 6 Ø 6	Ø 6
F (A/B/C/D Screw)	SR10 SR15 SR15 SR20	SR15 SR20 SR20 SR20	SR20

Unit: mm

ES Standard & Optional Functions

CLAMPING UNIT	STD	OPT
5-point twin toggle mechanism	▲	
Center pressing platen	▲	
5 stages of clamping, free to random setting	▲	
Auto lubrication device	▲	
Low pressure mold protection device	▲	
Auto mold height adjustment	▲	
Clamping unit with linear guide	▲	
Electric interlock device	▲	
Auto mold closing device	▲	
Ejection while mold opening	▲	
Multiple ejection (up to 9 times)	▲	
Ejection holding	▲	
Ejection delay funciton	▲	
Clamping Screw Temperature Monitoring	▲	
Open/Close Mold, Ejection Curve Function	▲	
Vibration Ejection	▲	
Parallel Dual Screw Ejection	▲	
Ejector Guide Rod Linear Bearing	▲	
High-Pressure Stage Mold Clamping Speed Increase	▲	
Low-Pressure Mold Protection Function (AI High Sensitivity Mold Protection)	▲	
Signal Confirmation Function on Ejector Retracting to original Position	▲	
Low-Speed Low-Pressure Mold Open/Close under debugging Mode	▲	
Two-Stage Ejection Program Control	▲	
Mold Cooling Water Distributor	▲	
Clamping Slope Adaptive Control	▲	
Ejection Slope Adaptive Control	▲	
Core Pulling and Threading Function (Two Electrical Interfaces)	▲	
Two Sets of Air valve	▲	
Compression Molding (Mode 1, Mode 2)	▲	
Mold Cavity Venting (Mode 1, Mode 2)	▲	
Graphical Display of Clamping Parameters	▲	
Graphical Display of Ejection Parameters	▲	
Clamping Motion Curve Monitoring	▲	
Mold Cavity Pressure Release	▲	
Hot Runner Valve Gate Control		△
Clamping force close loop control		△
Clamping Screw Cooling - Compressed Air		△
Clamping Screw Cooling - Oil Cooling		△
Platen (T-Slot + Mold Clamp Holes)		△
In-Mold Shearing Function		△
Hydraulic Ejector		△
Extended Maximum Mold Thickness		△
High-Speed Mold Clamping Mechanism		△

▲ Standard function △ Optional function

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ES Standard & Optional Functions

ELECTRIC SYSTEM	STD	OPT
TECHMATION controller	▲	
Motion control soft	▲	
Heating double protection	▲	
Servo motor overload protection	▲	
Emergency stop for safety doors	▲	
Heating controlled by Solid state relay	▲	
Power combination box	▲	
Power socket (10A) x 1	▲	
Tri-color light alarm	▲	
Euromap 12 robot interface	▲	
Common robot interface		△
Euromap 67 robot interface		△
Euromap 13 interface		△
Real-time clamping force monitoring		△
Real-time energy display		△
Hot runner control system and interface		△
Interface for MES		△
CONTROL SYSTEM	STD	OPT
Injection molding curve monitor	▲	
Production data monitoring function	▲	
Fault self-detection	▲	
Multiple language support	▲	
500 sets of mold memory	▲	
Function to Prevent machine idle consumption	▲	
Mold open/close slope PID (high/middle/low)	▲	
Ejector slope PID (high/middle/low)	▲	
injection slope speed PID (high/middle/low)	▲	

▲ Standard function △ Optional function

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OTHERS	STD	OPT
Leveling pad	▲	
Operation manual	▲	
Tool box	▲	
Spare parts	▲	
Mold clamp	▲	
Hopper		△
Hopper dryer		△
Auto loader		△
Shut-off nozzle		△



Modular Injection Unit

Modular injection platform, flexible configuration, multiple choices, quick application matching

	IU60	IU90	IU180	IU260	IU410	IU580	IU790	IU1000	IU1400	IU2100	IU3100
ES90	16 18 20	20 22 26	26 30 34								
ES120			26 30 34	30 34 38							
ES160				30 34 38	35 40 40 45						
ES200					35 40 40 45	40 45 45 50					
ES260						40 45 45 50	45 50 50 55				
ES320							45 50 50 55	50 55 55 62			
ES380								50 55 55 62	55 62 62 70		
ES380 (Wide Platen)								50 55 55 62	55 62 62 70		
ES450									55 62 62 70	62 70 70 80	70 80 80 90

