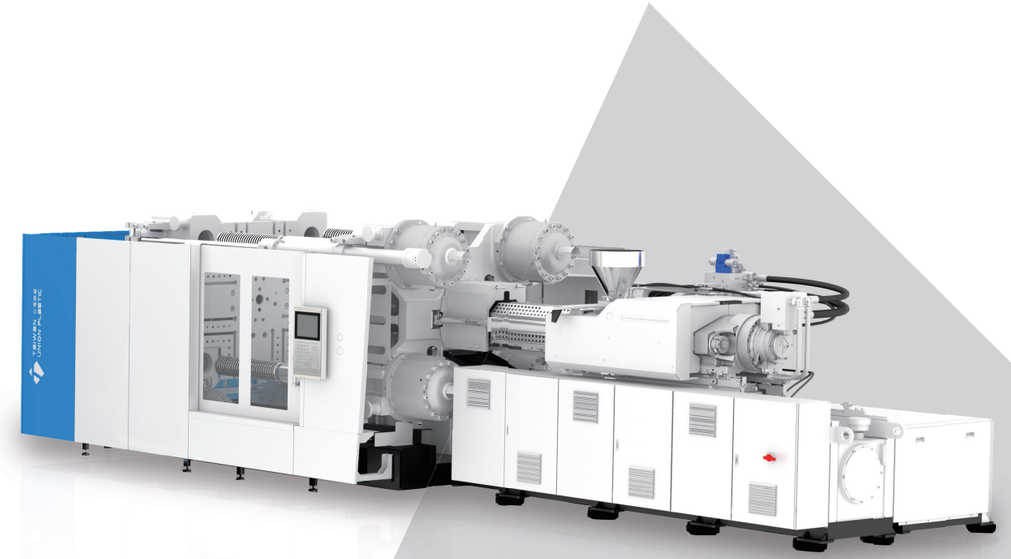
Technology Never Stops!

TAIWAN 台灣聯塑
UNION PLASTIC

HS 450-6600T

Two-platen Series
Technical Parameters



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TUP . 202502 . 02B

TECHNOLOGY NEVER STOPS!

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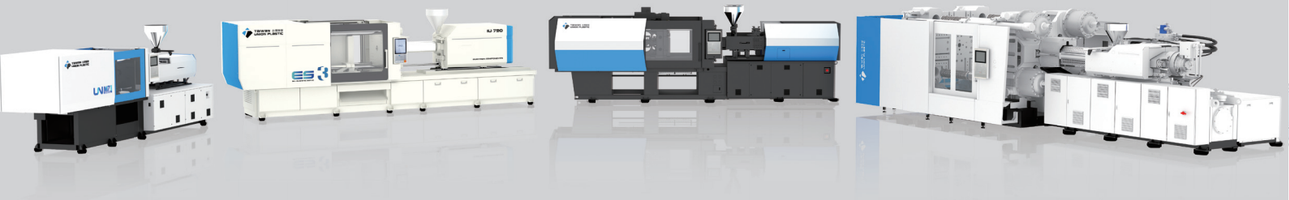


TUP

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

200,000㎡
Factory Area

Two-platen Series

According to the development direction of large-scale injection molding machine, the hydraulic servo-driven Two-platen Series optimizes the design of each component, ensuring the performance indicators of most the parts aligning with the international level. The whole machine has a compact structure, large mold opening stroke, and is suitable for super-large cavity molds such as auto parts, home appliances, logistics, and pipe fittings.

Application Area

MORE STABLE

Large modulus, extendable mold shifting stroke
Mold support weight increased by 15%
Tie bar unbalanced load ≤4%
Barrel temperature control ≤± 1°C

MORE PRECISE

The repeatability of the mold opening position ≤ 0.2mm
Injection repeatability ≤0.1%
Product quality repeatability ≤0.3%
The repeatability of the end position of the injection is ±0.2mm

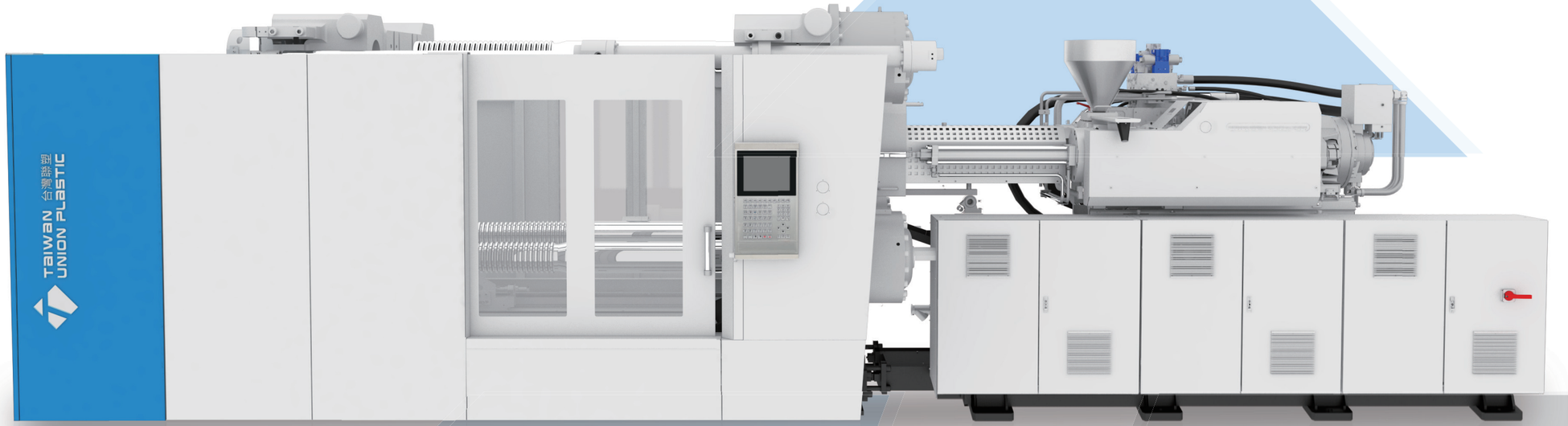
MORE EFFICIENT

The speed of switching the mold is 900mm/s
Efficiency increased by 50% compared to three-platen machine
High response servo system
The plasticizing parts have been fully upgraded

MORE ADAPTABILITY

Modular design, more specs to choose for professional complete solutions
More options like electric charging, tie bar pulling device, automatic mold change, MuCell etc.

4,500-66,000kN



HS450 SPECIFICATIONS

Clamping Unit	Unit	HS450
Clamping Force	kN	4500
Mold Opening Stroke	mm	1250/750
Min. Mold Height	mm	350
Max. Mold Height	mm	850
Max. Daylight	mm	1600
Tie Bar Space (HxV)	mm	810× 800
Ejection Stroke	mm	250
Ejection Force	kN	110
Max.Mould Weight	t	6.5

Injection Unit	Unit	IU2450			IU3700		
		A	B	C	A	B	C
Screw Diameter	mm	65	70	75	70	80	90
Screw L/D Ratio	L/D	21.5	20.0	18.6	22.9	20.0	17.8
Theoretical Shot Volume	cm³	1161	1347	1546	1539	2011	2545
Shot Weight (PS)	g	1057	1226	1407	1401	1830	2316
Injection Rate (PS)	g/s	359	417	479	420	549	694
Injection Pressure	MPa	211	182	159	242	186	147
Plasticizing Capacity (PS)	g/s	32	37	43	41	54	68
Screw Rotation Speed	rpm	152			157		

General Data	Unit	IU2450	IU3700
Heating Capacity	kW	30	38
Motor Power	kW	56+3	74+3
Oil tank capacity	L	650	850
Theoretical Weight	t	20	22
Machine Dim. (L×W×H)	m	6.7×2.3×2.3	7.7×2.3×2.3

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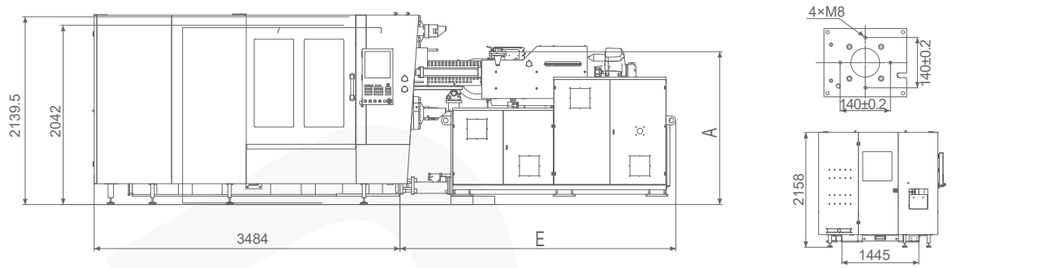
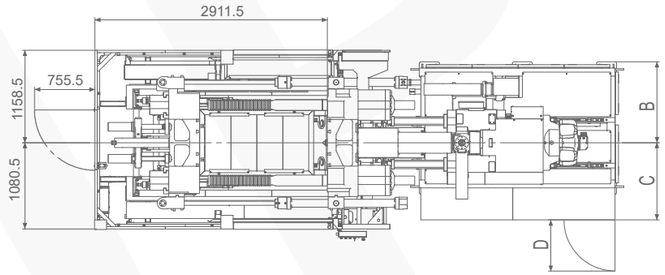
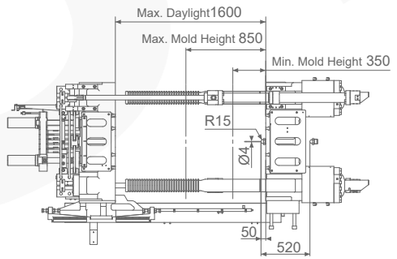
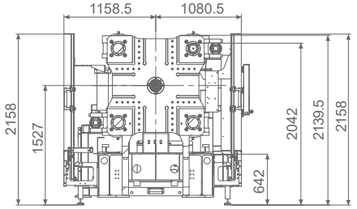
HS450 Machine Size

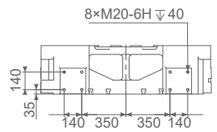


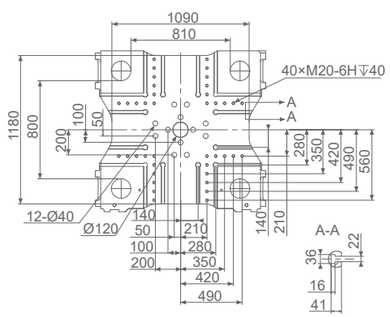


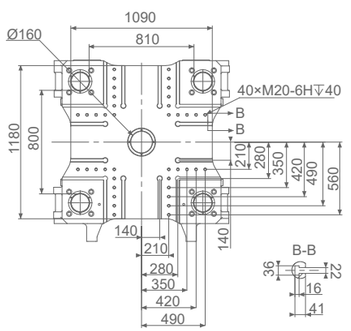
Model	A	B	C	D	E
IU2450	1740.5	1015	966	640	3140
IU3700	1755.5	1569	904	546	4201











unit: mm

HS650 SPECIFICATIONS

Clamping Unit	Unit	HS650
Clamping Force	kN	6500
Mold Opening Stroke	mm	1450/900
Min. Mold Height	mm	400
Max. Mold Height	mm	950
Max. Daylight	mm	1850
Tie Bar Space (HxV)	mm	1040×910
Ejection Stroke	mm	250
Ejection Force	kN	110
Max.Mould Weight	t	9.5

Injection Unit	Unit	IU2450			IU3700			IU5200		
		A	B	C	A	B	C	A	B	C
Screw Diameter	mm	65	70	75	70	80	90	80	90	100
Screw L/D Ratio	L/D	21.5	20.0	18.6	22.9	20.0	17.8	24.8	22.0	19.8
Theoretical Shot Volume	cm³	1161	1347	1546	1539	2011	2545	2262	2863	3534
Shot Weight (PS)	g	1057	1226	1407	1401	1830	2316	2058	2605	3216
Injection Rate (PS)	g/s	359	417	479	420	549	694	549	694	857
Injection Pressure	MPa	211	182	159	242	186	147	233	184	149
Plasticizing Capacity (PS)	g/s	32	37	43	41	54	68	59	74	92
Screw Rotation Speed	rpm	152			157			150		

General Data	Unit	IU2450	IU3700	IU5200
Heating Capacity	kW	30	38	52
Motor Power	kW	56+3	74+3	94+3
Oil tank capacity	L	650	850	1050
Theoretical Weight	t	20	24	26
Machine Dim. (L×W×H)	m	7.5×3.2×2.6	8.4×3.2×2.6	8.5×3.5×2.6

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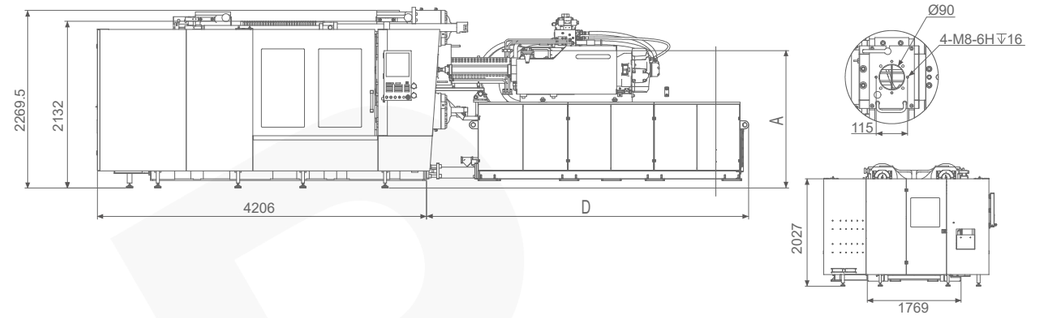
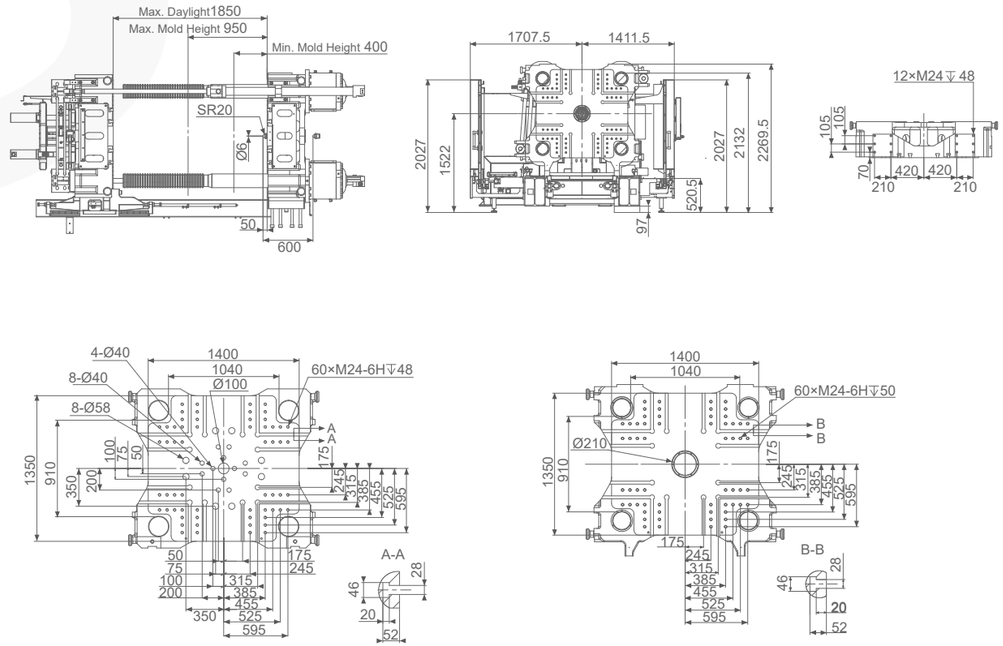
HS650 Machine Size



Model	A	B	C	D
IU2450	1740.5	1015	966	3230
IU3700	1755.5	1569	904	4117.5
IU5200	1847	1389	794	4268



unit: mm

HS850 SPECIFICATIONS

Clamping Unit	Unit	HS850
Clamping Force	kN	8500
Mold Opening Stroke	mm	1600/1100
Min. Mold Height	mm	500
Max. Mold Height	mm	1100
Max. Daylight	mm	2100
Tie Bar Space (HxV)	mm	1180×1000
Ejection Stroke	mm	300
Ejection Force	kN	195
Max.Mould Weight	t	13

Injection Unit	Unit	IU3700			IU5200			IU8700		
		A	B	C	A	B	C	A	B	C
Screw Diameter	mm	70	80	90	80	90	100	100	110	120
Screw L/D Ratio	L/D	22.9	20.0	17.8	24.8	22.0	19.8	24.2	22.0	20.2
Theoretical Shot Volume	cm³	1539	2011	2545	2262	2863	3534	3927	4752	5655
Shot Weight (PS)	g	1401	1830	2316	2058	2605	3216	3574	4324	5146
Injection Rate (PS)	g/s	420	549	694	549	694	857	686	830	988
Injection Pressure	MPa	242	186	147	233	184	149	222	183	154
Plasticizing Capacity (PS)	g/s	41	54	68	59	74	92	122	147	175
Screw Rotation Speed	rpm	157			150			160		

General Data	Unit	IU3700	IU5200	IU8700
Heating Capacity	kW	38	52	67
Motor Power	kW	74+3	94+3	112+4
Oil tank capacity	L	850	1050	1300
Theoretical Weight	t	33	35	37
Machine Dim. (L×W×H)	m	8.9×3.3×2.7	9.0×3.3×2.7	9.3×3.3×2.7

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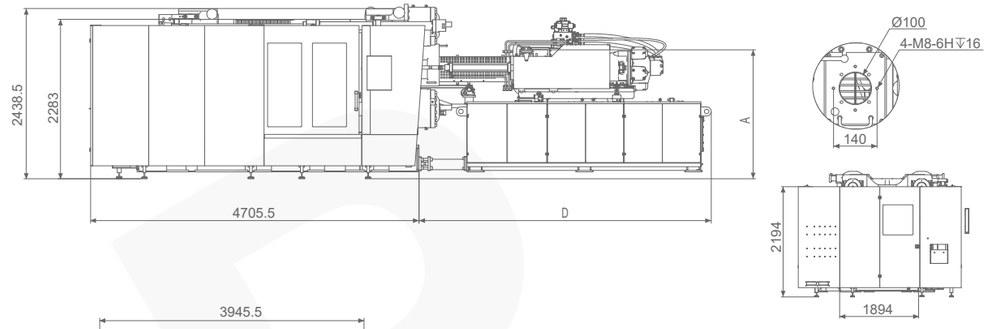
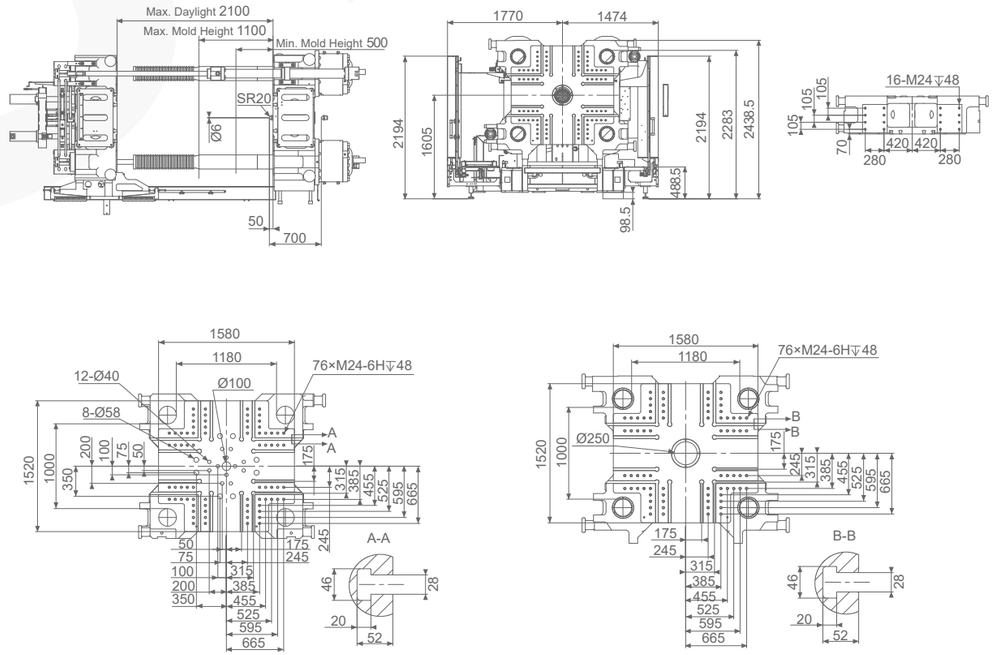
HS850 Machine Size



Model	A	B	C	D
IU3700	1755.5	1569	904	4152
IU5200	1847	1389	794	4185
IU8700	2028	1764	816	4560



unit: mm

HS1200 SPECIFICATIONS

Clamping Unit	Unit	HS1200
Clamping Force	kN	12000
Mold Opening Stroke	mm	2050/1400
Min. Mold Height	mm	600
Max. Mold Height	mm	1250
Max. Daylight	mm	2650
Tie Bar Space (HxV)	mm	1350×1200
Ejection Stroke	mm	350
Ejection Force	kN	230
Max.Mould Weight	t	20

Injection Unit	Unit	IU5200			IU8700			IU13700		
		A	B	C	A	B	C	A	B	C
Screw Diameter	mm	80	90	100	100	110	120	120	130	140
Screw L/D Ratio	L/D	24.8	22.0	19.8	24.2	22.0	20.2	24.0	22.2	20.6
Theoretical Shot Volume	cm^3	2262	2863	3534	3927	4752	5655	6503	7632	8851
Shot Weight (PS)	g	2058	2605	3216	3574	4324	5146	5918	6945	8055
Injection Rate (PS)	g/s	549	694	857	686	830	988	1050	1232	1429
Injection Pressure	MPa	233	184	149	222	183	154	211	180	155
Plasticizing Capacity (PS)	g/s	59	74	92	122	147	175	144	169	196
Screw Rotation Speed	rpm	150			160			110		

General Data	Unit	IU5200	IU8700	IU13700
Heating Capacity	kW	52	67	98
Motor Power	kW	94+3	112+4	159+4
Oil tank capacity	L	1050	1300	1800
Theoretical Weight	t	46	48	52
Machine Dim. (L×W×H)	m	9.7×3.4×2.9	9.9×3.4×2.9	11.3×3.4×2.9

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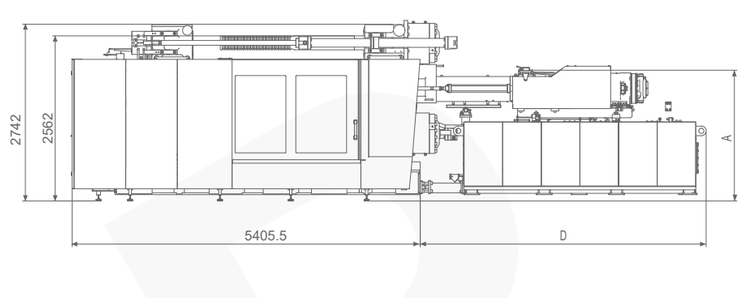
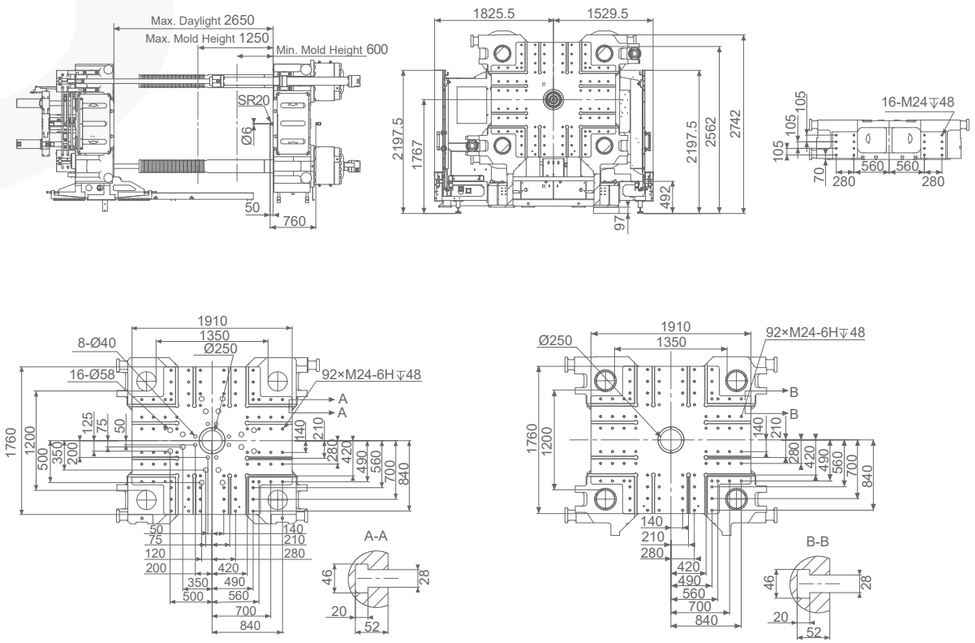
HS1200 Machine Size



Model	A	B	C	D
IU5200	1847	1389	794	4305
IU8700	2028	1764	816	4441
IU13700	2028	1736	938	5858



unit: mm

HS1400 SPECIFICATIONS

Clamping Unit	Unit	HS1400
Clamping Force	kN	14000
Mold Opening Stroke	mm	2350/1600
Min. Mold Height	mm	700
Max. Mold Height	mm	1450
Max. Daylight	mm	3050
Tie Bar Space (HxV)	mm	1460×1360
Ejection Stroke	mm	400
Ejection Force	kN	330
Max.Mould Weight	t	27

Injection Unit	Unit	IU8700			IU13700			IU18200		
		A	B	C	A	B	C	A	B	C
Screw Diameter	mm	100	110	120	120	130	140	130	140	150
Screw L/D Ratio	L/D	24.2	22.0	20.2	24.0	22.2	20.6	24.0	22.3	20.8
Theoretical Shot Volume	cm³	3927	4752	5655	6503	7632	8851	8628	10006	11486
Shot Weight (PS)	g	3574	4324	5146	5918	6945	8055	7851	9105	10453
Injection Rate (PS)	g/s	686	830	988	1050	1232	1429	1136	1317	1512
Injection Pressure	MPa	222	183	154	211	180	155	211	182	159
Plasticizing Capacity (PS)	g/s	122	147	175	144	169	196	174	201	231
Screw Rotation Speed	rpm	160			110			104		

General Data	Unit	IU8700	IU13700	IU18200
Heating Capacity	kW	67	98	110
Motor Power	kW	112+4	159+4	168+5.5
Oil tank capacity	L	1300	1800	2000
Theoretical Weight	t	60	64	66
Machine Dim. (L×W×H)	m	10.7×3.7×3.2	11.7×3.7×3.2	11.9×3.7×3.2

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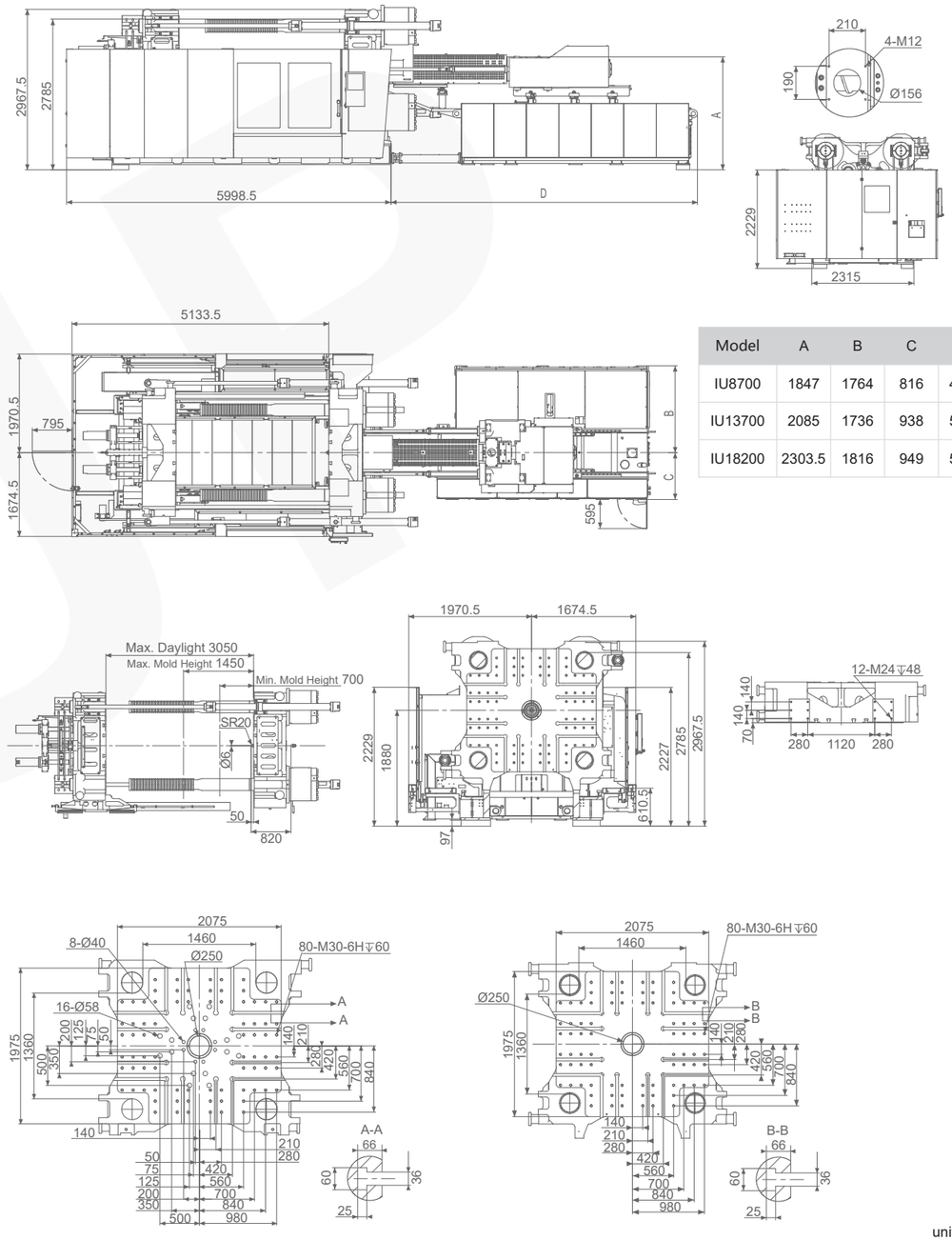
HS1400 Machine Size



Model	A	B	C	D
IU8700	1847	1764	816	4620
IU13700	2085	1736	938	5665
IU18200	2303.5	1816	949	5780

unit: mm

HS1600 SPECIFICATIONS

Clamping Unit	Unit	HS1600
Clamping Force	kN	16000
Mold Opening Stroke	mm	2600/1750
Min. Mold Height	mm	700
Max. Mold Height	mm	1550
Max. Daylight	mm	3300
Tie Bar Space (HxV)	mm	1550×1450
Ejection Stroke	mm	400
Ejection Force	kN	330
Max.Mould Weight	t	33

Injection Unit	Unit	IU8700			IU13700			IU18200		
		A	B	C	A	B	C	A	B	C
Screw Diameter	mm	100	110	120	120	130	140	130	140	150
Screw L/D Ratio	L/D	24.2	22.0	20.2	24.0	22.2	20.6	24.0	22.3	20.8
Theoretical Shot Volume	cm³	3927	4752	5655	6503	7632	8851	8628	10006	11486
Shot Weight (PS)	g	3574	4324	5146	5918	6945	8055	7851	9105	10453
Injection Rate (PS)	g/s	686	830	988	1050	1232	1429	1136	1317	1512
Injection Pressure	MPa	222	183	154	211	180	155	211	182	159
Plasticizing Capacity (PS)	g/s	122	147	175	144	169	196	174	201	231
Screw Rotation Speed	rpm	160			110			104		

General Data	Unit	IU8700	IU13700	IU18200
Heating Capacity	kW	67	98	110
Motor Power	kW	112+4	159+4	168+5.5
Oil tank capacity	L	1300	1800	2000
Theoretical Weight	t	68	73	75
Machine Dim. (L×W×H)	m	11.2×3.8×3.4	12.1×3.8×3.4	12.2×3.8×3.4

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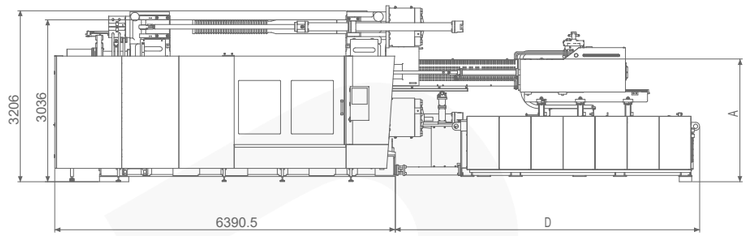
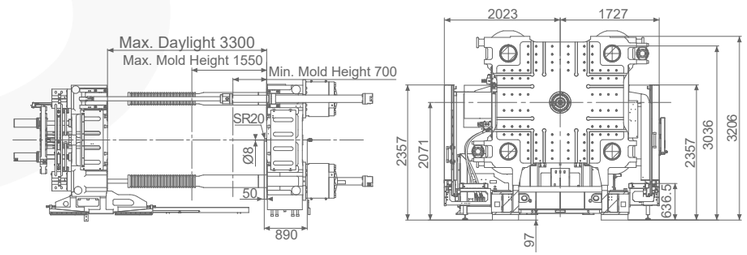
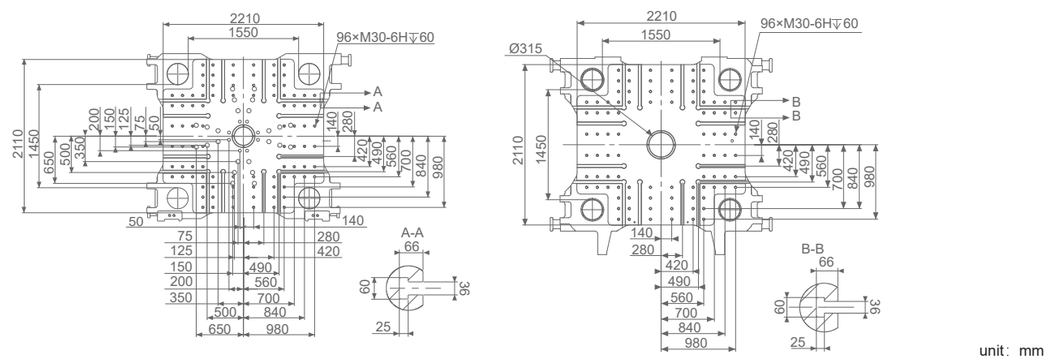
HS1600 Machine Size



Model	A	B	C	D
IU8700	1847	1764	816	4750
IU13700	2085	1736	938	5650
IU18200	2303.5	1816	949	5708





unit: mm

HS1850 SPECIFICATIONS

Clamping Unit	Unit	HS1850
Clamping Force	kN	18500
Mold Opening Stroke	mm	2600/1750
Min. Mold Height	mm	750
Max. Mold Height	mm	1600
Max. Daylight	mm	3350
Tie Bar Space (HxV)	mm	1650×1550
Ejection Stroke	mm	450
Ejection Force	kN	450
Max.Mould Weight	t	40

Injection Unit	Unit	IU13700			IU18200			IU24000		
		A	B	C	A	B	C	A	B	C
Screw Diameter	mm	120	130	140	130	140	150	140	150	160
Screw L/D Ratio	L/D	24.0	22.2	20.6	24.0	22.3	20.8	24.0	22.4	21.0
Theoretical Shot Volume	cm³	6503	7632	8851	8628	10006	11486	11545	13254	15080
Shot Weight (PS)	g	5918	6945	8055	7851	9105	10453	10506	12061	13722
Injection Rate (PS)	g/s	1050	1232	1429	1136	1317	1512	1429	1640	1866
Injection Pressure	MPa	211	180	155	211	182	159	211	184	162
Plasticizing Capacity (PS)	g/s	144	169	196	174	201	231	225	258	294
Screw Rotation Speed	rpm	110			104			108		

General Data	Unit	IU13700	IU18200	IU24000
Heating Capacity	kW	98	110	139
Motor Power	kW	159+4	168+5.5	224+7.5
Oil tank capacity	L	1800	2000	2500
Theoretical Weight	t	88	90	94
Machine Dim. (L×W×H)	m	12.6×3.9×3.4	12.8×3.9×3.4	13.7×3.9×3.4

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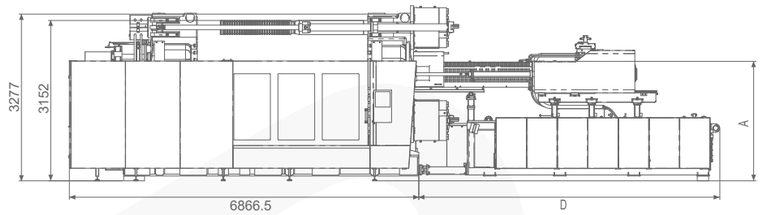
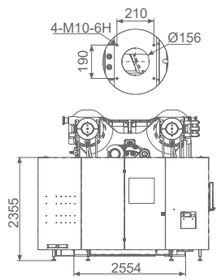
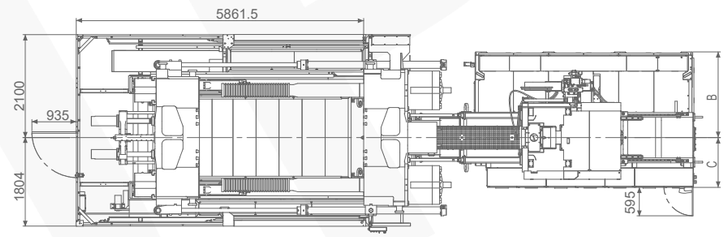
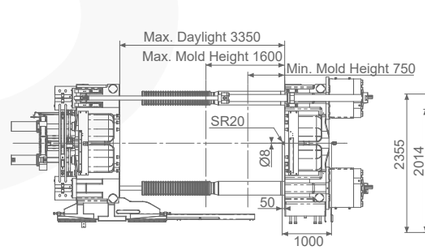
HS1850 Machine Size

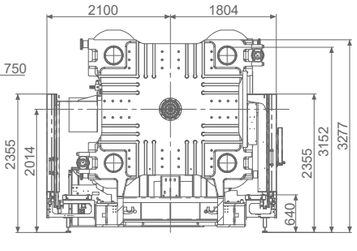


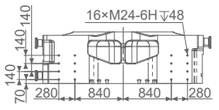


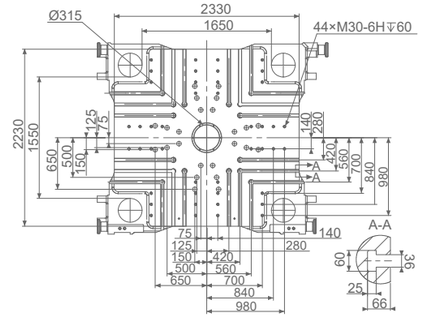


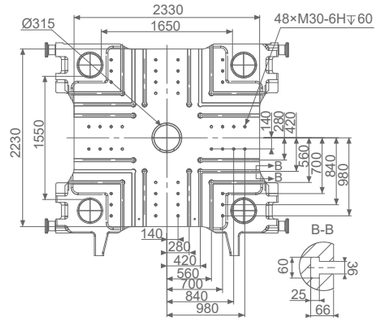
Model	A	B	C	D
IU13700	2322	1736	938	5683
IU18200	2349.5	1816	949	5910
IU24000	2542	1902	1010	6842











unit: mm

HS2100 SPECIFICATIONS

Clamping Unit	Unit	HS2100
Clamping Force	kN	21000
Mold Opening Stroke	mm	2700/1800
Min. Mold Height	mm	800
Max. Mold Height	mm	1700
Max. Daylight	mm	3500
Tie Bar Space (HxV)	mm	1800×1600
Ejection Stroke	mm	450
Ejection Force	kN	450
Max.Mould Weight	t	50

Injection Unit	Unit	IU13700			IU18200			IU24000			IU41000		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw Diameter	mm	120	130	140	130	140	150	140	150	160	160	170	190
Screw L/D Ratio	L/D	24.0	22.2	20.6	24.0	22.3	20.8	24.0	22.4	21.0	24.0	22.6	20.2
Theoretical Shot Volume	cm³	6503	7632	8851	8628	10006	11486	11545	13254	15080	20709	23379	29203
Shot Weight (PS)	g	5918	6945	8055	7851	9105	10453	10506	12061	13722	18846	21275	26575
Injection Rate (PS)	g/s	1050	1232	1429	1136	1317	1512	1429	1640	1866	1501	1694	2116
Injection Pressure	MPa	211	180	155	211	182	159	211	184	162	201	178	143
Plasticizing Capacity (PS)	g/s	144	169	196	174	201	231	225	258	294	233	263	328
Screw Rotation Speed	rpm	110			104			108			75		

General Data	Unit	IU13700	IU18200	IU24000	IU41000
Heating Capacity	kW	98	110	139	183
Motor Power	kW	159+4	168+5.5	224+7.5	224+7.5
Oil tank capacity	L	1800	2000	2500	2500
Theoretical Weight	t	92	96	100	105
Machine Dim. (L×W×H)	m	12.4×4.1×3.9	12.6×4.1×3.9	13.6×4.1×3.9	14.9×4.1×3.9

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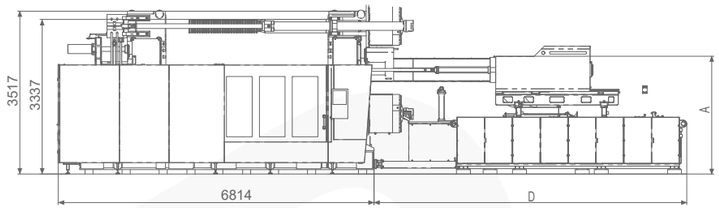
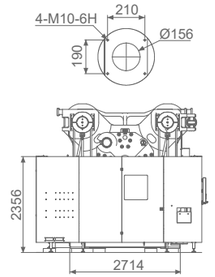
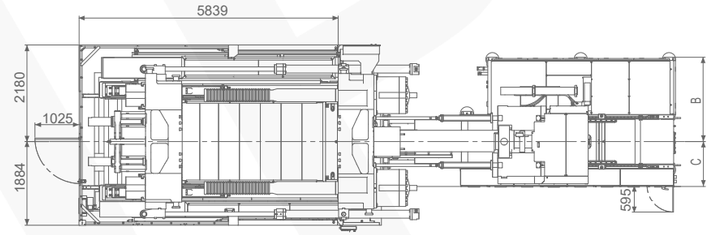
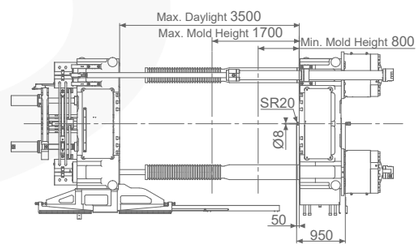
HS2100 Machine Size

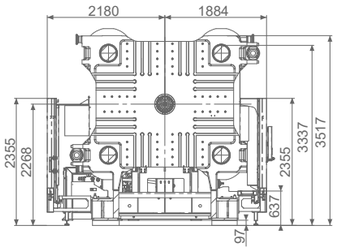


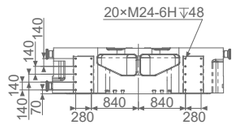


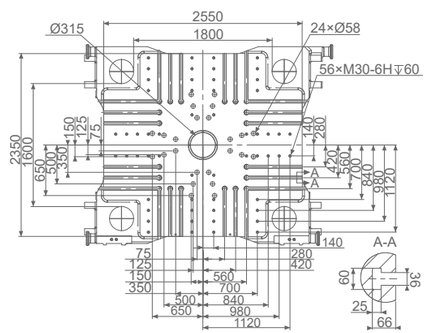


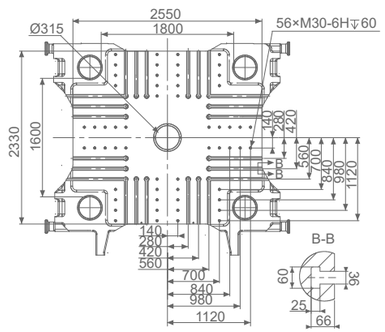
Model	A	B	C	D
IU13700	2425	1736	938	5520
IU18200	2499.5	1816	949	5742.5
IU24000	2542	1902	1010	6748
IU41000	2615	1980	1050	8075











unit: mm

HS2400 SPECIFICATIONS

Clamping Unit	Unit	HS2400
Clamping Force	kN	24000
Mold Opening Stroke	mm	3000/2000
Min. Mold Height	mm	800
Max. Mold Height	mm	1800
Max. Daylight	mm	3800
Tie Bar Space (HxV)	mm	1900×1700
Ejection Stroke	mm	500
Ejection Force	kN	450
Max.Mould Weight	t	59

Injection Unit	Unit	IU18200			IU24000			IU41000		
		A	B	C	A	B	C	A	B	C
Screw Diameter	mm	130	140	150	140	150	160	160	170	190
Screw L/D Ratio	L/D	24.0	22.3	20.8	24.0	22.4	21.0	24.0	22.6	20.2
Theoretical Shot Volume	cm³	8628	10006	11486	11545	13254	15080	20709	23379	29203
Shot Weight (PS)	g	7851	9105	10453	10506	12061	13722	18846	21275	26575
Injection Rate (PS)	g/s	1136	1317	1512	1429	1640	1866	1501	1694	2116
Injection Pressure	MPa	211	182	159	211	184	162	201	178	143
Plasticizing Capacity (PS)	g/s	174	201	231	225	258	294	233	263	328
Screw Rotation Speed	rpm	104			108			75		

General Data	Unit	IU18200	IU24000	IU41000
Heating Capacity	kW	110	139	183
Motor Power	kW	168+5.5	224+7.5	224+7.5
Oil tank capacity	L	2000	2500	2500
Theoretical Weight	t	116	120	125
Machine Dim. (L×W×H)	m	13.1×4.6×3.9	14.1×4.6×3.9	15.3×4.6×3.9

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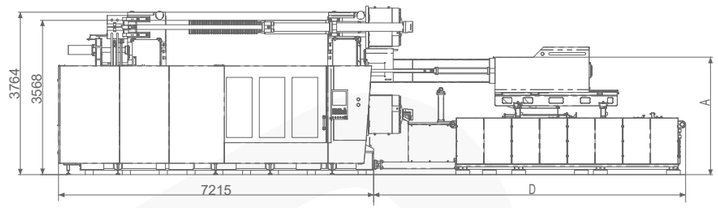
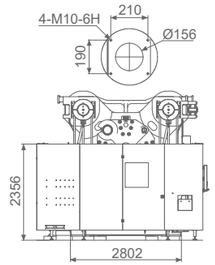
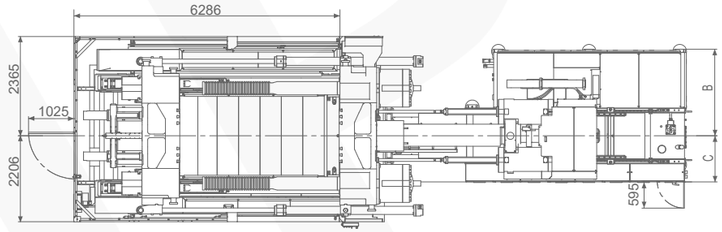
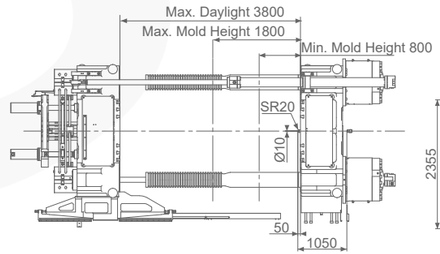
HS2400 Machine Size

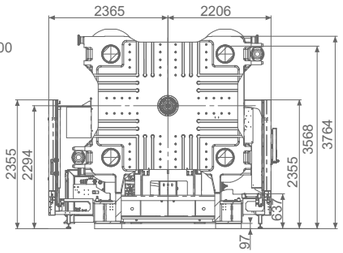


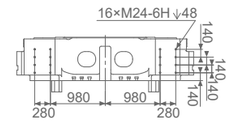


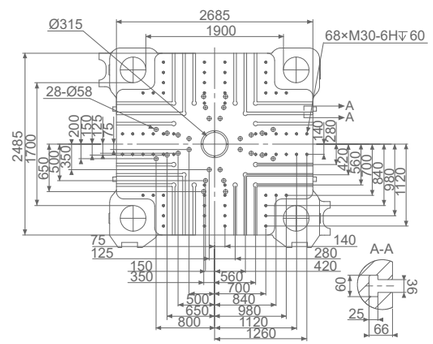


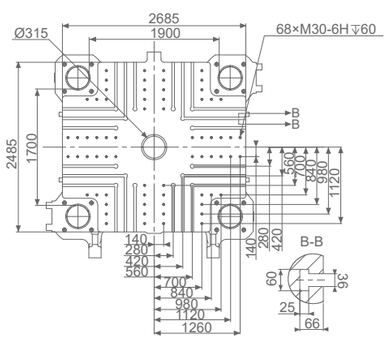
Model	A	B	C	D
IU18200	2303.5	1816	949	5965
IU24000	2542	1902	1010	6898
IU41000	2615	1980	1050	8048











unit: mm

HS2800 SPECIFICATIONS

Clamping Unit	Unit	HS2800
Clamping Force	kN	28000
Mold Opening Stroke	mm	3300/2100
Min. Mold Height	mm	800
Max. Mold Height	mm	2000
Max. Daylight	mm	4100
Tie Bar Space (HxV)	mm	2000×1800
Ejection Stroke	mm	500
Ejection Force	kN	450
Max.Mould Weight	t	66

Injection Unit	Unit	IU24000			IU41000			IU52000			IU61000		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw Diameter	mm	140	150	160	160	170	190	170	180	200	180	200	220
Screw L/D Ratio	L/D	24.0	22.4	21.0	24.0	22.6	20.2	23.0	21.7	19.6	24.5	22.0	20.0
Theoretical Shot Volume	cm³	11545	13254	15080	20709	23379	29203	25422	28501	35186	30536	37699	45616
Shot Weight (PS)	g	10506	12061	13722	18846	21275	26575	23134	25935	32019	27788	34306	41510
Injection Rate (PS)	g/s	1429	1640	1866	1501	1694	2116	1776	1991	2459	1829	2259	2733
Injection Pressure	MPa	211	184	162	201	178	143	205	183	148	200	162	134
Plasticizing Capacity (PS)	g/s	225	258	294	233	263	328	297	333	411	302	374	452
Screw Rotation Speed	rpm	108			75			79			68		

General Data	Unit	IU24000	IU41000	IU52000	IU61000
Heating Capacity	kW	139	183	195	208
Motor Power	kW	224+7.5	224+7.5	271+7.5	271+7.5
Oil tank capacity	L	2500	2500	3000	3000
Theoretical Weight	t	138	141	145	150
Machine Dim. (L×W×H)	m	14.6×4.9×4.1	15.7×4.9×4.1	16.1×4.9×4.1	17.0×4.9×4.1

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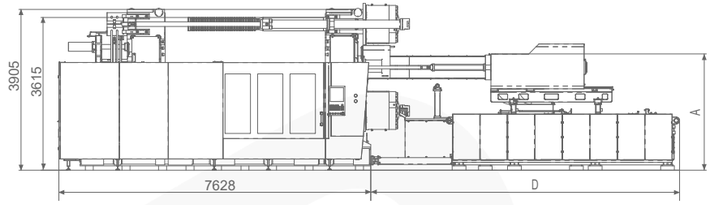
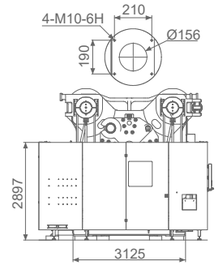
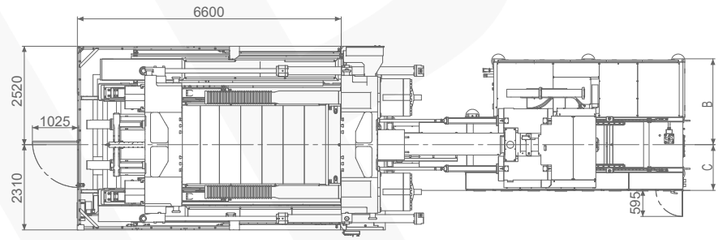
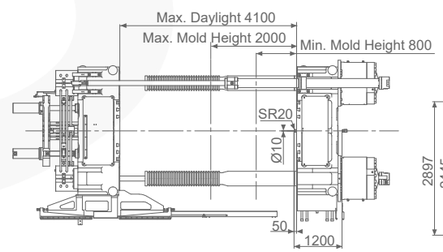
HS2800 Machine Size

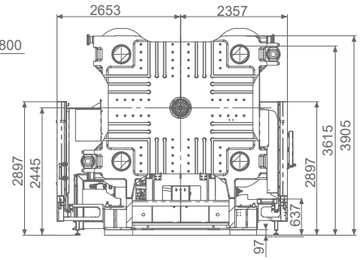


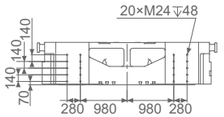


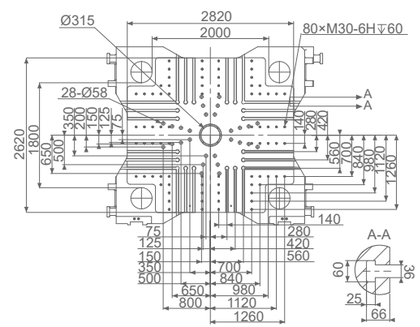


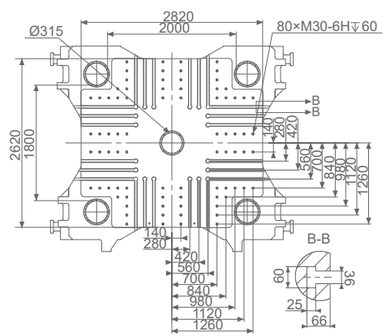
Model	A	B	C	D
IU24000	2542	1902	1010	6898
IU41000	2615	1980	1050	8048
IU52000	2698	2085	1080	8469
IU61000	2749.5	2172.5	1096.5	9350











unit: mm

HS3300 SPECIFICATIONS

Clamping Unit	Unit	HS3300
Clamping Force	kN	33000
Mold Opening Stroke	mm	3200/2200
Min. Mold Height	mm	1000
Max. Mold Height	mm	2000
Max. Daylight	mm	4200
Tie Bar Space (HxV)	mm	2280×1910
Ejection Stroke	mm	550
Ejection Force	kN	580
Max.Mould Weight	t	75

Injection Unit	Unit	IU24000			IU41000			IU52000			IU61000		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw Diameter	mm	140	150	160	160	170	190	170	180	200	180	200	220
Screw L/D Ratio	L/D	24.0	22.4	21.0	24.0	22.6	20.2	23.0	21.7	19.6	24.5	22.0	20.0
Theoretical Shot Volume	cm³	11545	13254	15080	20709	23379	29203	25422	28501	35186	30536	37699	45616
Shot Weight (PS)	g	10506	12061	13722	18846	21275	26575	23134	25935	32019	27788	34306	41510
Injection Rate (PS)	g/s	1429	1640	1866	1501	1694	2116	1776	1991	2459	1829	2259	2733
Injection Pressure	MPa	211	184	162	201	178	143	205	183	148	200	162	134
Plasticizing Capacity (PS)	g/s	225	258	294	233	263	328	297	333	411	302	374	452
Screw Rotation Speed	rpm	108			75			79			68		

General Data	Unit	IU24000	IU41000	IU52000	IU61000
Heating Capacity	kW	139	183	195	208
Motor Power	kW	224+7.5	224+7.5	271+7.5	271+7.5
Oil tank capacity	L	2500	2500	3000	3000
Theoretical Weight	t	160	166	170	174
Machine Dim. (L×W×H)	m	15.0×5.1×4.3	16.2×5.1×4.3	17.2×5.1×4.3	17.2×5.1×4.3

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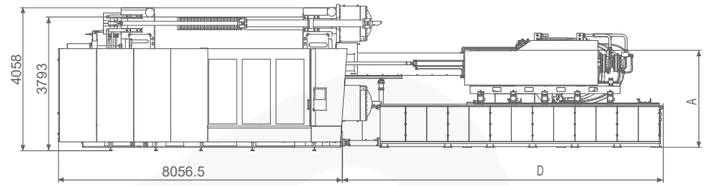
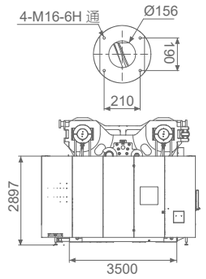
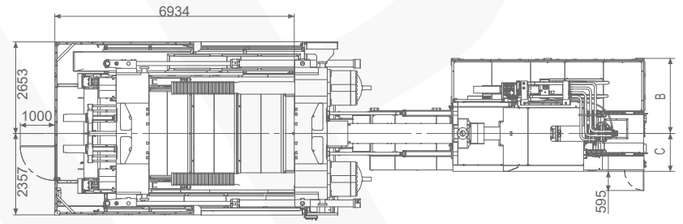
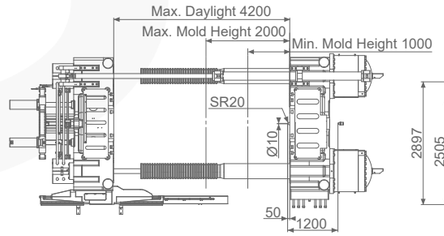
HS3300 Machine Size

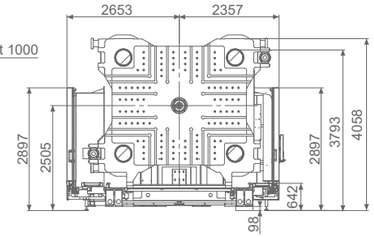


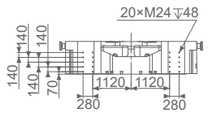


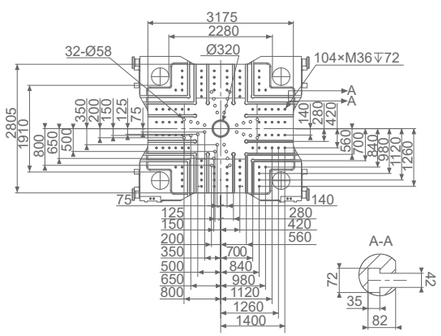


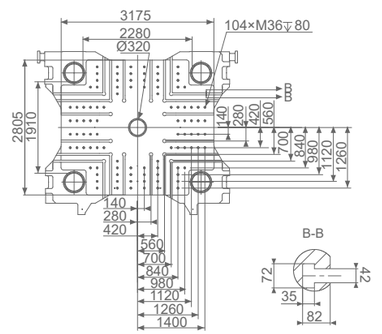
Model	A	B	C	D
IU24000	2542	1902	1010	6898
IU41000	2615	1980	1050	8048
IU52000	2698	2085	1080	8469
IU61000	2749.5	2172.5	1096.5	9112











unit: mm

HS4000 SPECIFICATIONS

Clamping Unit	Unit	HS4000
Clamping Force	kN	40000
Mold Opening Stroke	mm	3460/2260
Min. Mold Height	mm	1000
Max. Mold Height	mm	2200
Max. Daylight	mm	4460
Tie Bar Space (HxV)	mm	2400×2000
Ejection Stroke	mm	550
Ejection Force	kN	580
Max.Mould Weight	t	86

Injection Unit	Unit	IU61000			IU100000			IU140000		
		A	B	C	A	B	C	A	B	C
Screw Diameter	mm	180	200	220	220	240	260	240	260	280
Screw L/D Ratio	L/D	24.5	22.0	20.0	26.0	24.0	22.0	24.0	22.0	20.6
Theoretical Shot Volume	cm³	30536	37699	45616	50558	60168	70614	67858	79639	92363
Shot Weight (PS)	g	27788	34306	41510	46007	54753	64258	61751	72472	84050
Injection Rate (PS)	g/s	1829	2259	2733	2283	2717	3189	2676	3140	3642
Injection Pressure	MPa	200	162	134	199	167	143	197	168	145
Plasticizing Capacity (PS)	g/s	302	374	452	486	578	678	610	715	830
Screw Rotation Speed	rpm	68			60			58		

General Data	Unit	IU61000	IU100000	IU140000
Heating Capacity	kW	208	220	270
Motor Power	kW	271+7.5	336+11	392+11
Oil tank capacity	L	3000	3850	4500
Theoretical Weight	t	220	225	230
Machine Dim. (L×W×H)	m	17.8×5.2×4.5	18.9×5.2×4.5	19.8×5.2×4.5

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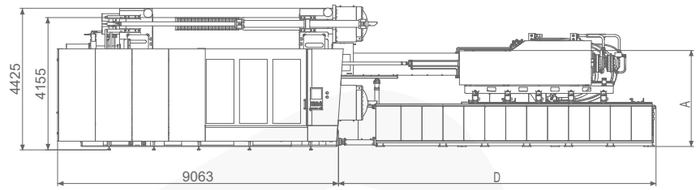
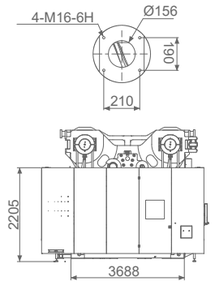
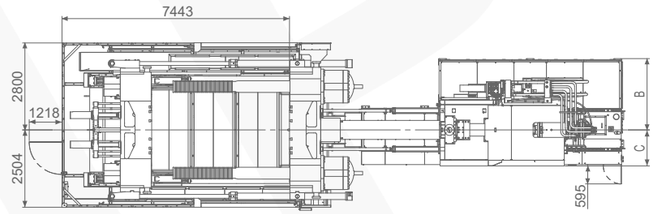
If you have any other special requirements, please contact us.

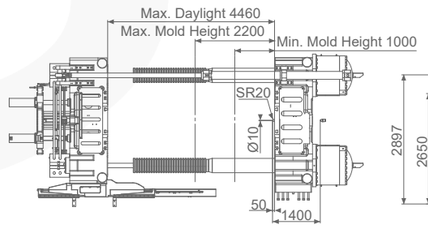
HS4000 Machine Size

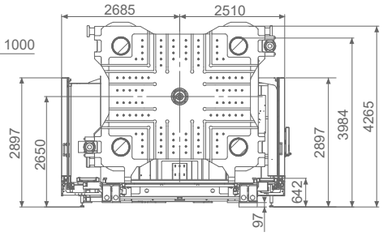


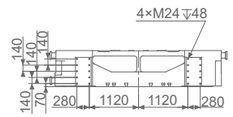


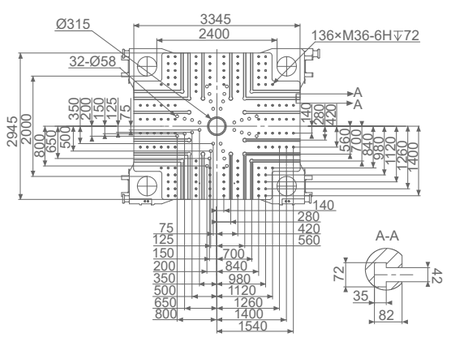


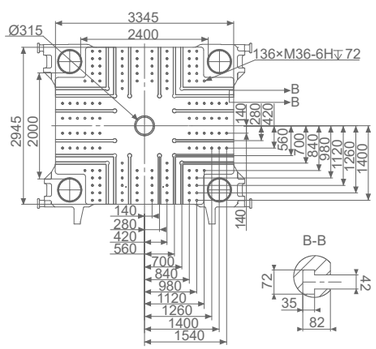
Model	A	B	C	D
IU61000	2749.5	2172.5	1096.5	9358
IU100000	3187	2016	1238	10359
IU140000	2980	2428	1459	11280











unit: mm

HS5500 SPECIFICATIONS

Clamping Unit	Unit	HS5500
Clamping Force	kN	55000
Mold Opening Stroke	mm	3800/2600
Min. Mold Height	mm	1200
Max. Mold Height	mm	2400
Max. Daylight	mm	5000
Tie Bar Space (HxV)	mm	2650×2300
Ejection Stroke	mm	650
Ejection Force	kN	800
Max.Mould Weight	t	100

Injection Unit	Unit	IU100000			IU140000			IU165000		
		A	B	C	A	B	C	A	B	C
Screw Diameter	mm	220	240	260	240	260	280	260	280	300
Screw L/D Ratio	L/D	26.0	24.0	22.0	24.0	22.0	20.6	24.0	22.0	20.8
Theoretical Shot Volume	cm³	50558	60168	70614	67858	79639	92363	84949	98520	113097
Shot Weight (PS)	g	46007	54753	64258	61751	72472	84050	77303	89654	102919
Injection Rate (PS)	g/s	2283	2717	3189	2676	3140	3642	2705	3138	3602
Injection Pressure	MPa	199	167	143	197	168	145	195	168	146
Plasticizing Capacity (PS)	g/s	486	578	678	610	715	830	694	805	924
Screw Rotation Speed	rpm	60			58			50		

General Data	Unit	IU100000	IU140000	IU165000
Heating Capacity	kW	220	270	330
Motor Power	kW	336+11	392+11	392+11
Oil tank capacity	L	3850	4500	4500
Theoretical Weight	t	365	370	380
Machine Dim. (L×W×H)	m	19.8×6.0×4.5	21.5×6.35×4.7	23.6×6.6×5.2

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HS6600 SPECIFICATIONS

Clamping Unit	Unit	HS6600
Clamping Force	kN	66000
Mold Opening Stroke	mm	4000/2700
Min. Mold Height	mm	1300
Max. Mold Height	mm	2600
Max. Daylight	mm	5300
Tie Bar Space (HxV)	mm	3200×2600
Ejection Stroke	mm	1000
Ejection Force	kN	800
Max.Mould Weight	t	130

Injection Unit	Unit	IU140000			IU165000		
		A	B	C	A	B	C
Screw Diameter	mm	240	260	280	260	280	300
Screw L/D Ratio	L/D	24.0	22.0	20.6	24.0	22.0	20.8
Theoretical Shot Volume	cm³	67858	79639	92363	84949	98520	113097
Shot Weight (PS)	g	61751	72474	84050	77303	89654	102919
Injection Rate (PS)	g/s	2676	3140	3642	2705	3138	3602
Injection Pressure	MPa	197	168	145	195	168	146
Plasticizing Capacity (PS)	g/s	610	715	830	694	805	924
Screw Rotation Speed	rpm	58			50		

General Data	Unit	IU140000	IU165000
Heating Capacity	kW	270	330
Motor Power	kW	392+11	392+11
Oil tank capacity	L	4500	4500
Theoretical Weight	t	490	500
Machine Dim. (L×W×H)	m	21.5×6.35×4.7	23.6×6.6×5.2

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HS Standard & Optional Functions

CLAMPING UNIT	STD	OPT
Clamping mechanism with suspended tie bars	▲	
Quantitative volumetric automatic lubrication system	▲	
High-response proportional control of pressure and flow for mold open/close	▲	
Ejection device driven by hydraulic	▲	
Low-pressure mold protection function	▲	
Clamping force adjusted on demand	▲	
Forced reset function	▲	
Ejection return protection	▲	
Robot installation holes (Euromap18)	▲	
Electric door (optional for HS650 and below)	▲	
Platens with T-slots	▲	
The four major plates are made of high-rigidity ductile iron	▲	
Dual protection devices for hydraulic and electrical systems	▲	
Safety pedal in mold area	▲	
Mold opening and closing controled by high-precision magnetostrictive (non-contact) displacement sensor	▲	
Spring mold function	▲	
Synchronous ejection or core pulling (optional for HS450)	▲	
Safety pedals located in both front and back safety doors		△
2nd time mold closing		△
Supporting platform for quick mold change system		△
Hydraulic mold clamping clamp		△
Magnetic platen		△
Increased mold height		△
Increased ejector stroke		△
Mold lifting frame		△
Installation of heat insulation board		△
Special mold installation holes		△
Increased mold opening stroke		△

INJECTION UNIT	STD	OPT
Injection with parallel and dual cylinders, equipped with low-speed and high-torque hydraulic motor	▲	
Nitrided alloy steel screw and barrel	▲	
Barrel insulation cover and nozzle protective cover (with electrical protection)	▲	
Optional back pressure before and after plasticizing	▲	
Ten-stage control of injection speed, pressure, and position	▲	
Ten-stage control of holding pressure speed, pressure, position/time	▲	
Five-stage control of plasticizing speed, pressure, position/time	▲	
Linear guide rail for injection unit.	▲	
Arrangement of double injection carriage cylinders	▲	
Cold start prevention for screw	▲	
Drooling proof function	▲	
Automatic material cleaning function	▲	
Screw counting detection device	▲	
Ceramic heating coil	▲	
Manual centralized lubrication device for injection unit		△
Injection carriage electronic ruler		△
Mixing and kneading screw		△
Double alloy screw and barrel		△
Rotary injection unit device		△
Lengthened nozzle (100, 150, 200)		△
Special screw assembly		△
Energy-saving insulation device for barrel (silicone insulation cover)		△
Spring self-locking nozzle		△
Increased injection stroke		△

▲ Standard function △ Optional function

The parameters on this page are data obtained before printing, and we reserve the right to modify the parameters.

ELECTRIC SYSTEM	STD	OPT
KEBA controller	▲	
Barrel heating PID closed-loop control	▲	
Operation modes: Manual, semi-automatic, and fully automatic	▲	
Input and output inspection screens	▲	
Automatic visual and audible alarm system	▲	
Software oscilloscope function	▲	
Emergency stop protection for front, back, and rear side safety doors	▲	
Unlimited process parameter storage	▲	
Automatic mold adjustment function	▲	
Chinese and English operating system	▲	
Online monitoring of machine cycle	▲	
15" TFT color touch screen	▲	
Visual image-based programming	▲	
Process control interface for quality data (PDP)	▲	
Automatic protection program for injection monitoring	▲	
Automatic protection program for mold clamping monitoring	▲	
Real-time list interface for statistical process control (SPC) of production	▲	
Screw speed detection device	▲	
Injection- to-holding, time, position and time + position selectable	▲	
Automatic setting functions of heat preservation and automatic heating	▲	
In-mold safety baffle protection	▲	
2 sets of 380V 16A sockets for HS2100 and below	▲	
16-level password protection	▲	
Reserved interfaces for robot such as SPI and EUROMAP12	▲	
3 sets of 380V 32A sockets (1 set of 380V 32A socket for HS2100 and below)	▲	
Servo injection		△
Electric rotary demolding device		△
Hot runner interface		△
Auxiliary emergency stop switch		△
In-mold air blowing		△
Change power supply voltage		△
Central (networked) monitoring system		△
Grating protection for front and rear safety doors		△
Photoelectric switch protection for front and rear safety doors		△
Grating protection for central safety pedal		△

CONTROL SYSTEM	STD	OPT
Low-noise and energy-saving hydraulic circuits	▲	
Proportional back pressure control for plasticizing	▲	
Independent filtration system (optional for HS850 and below)	▲	
2 sets of hydraulic core pulling (for models below HS1600, 1 set for moving mold and 1 set for fixed mold)	▲	
4 sets of hydraulic core pulling (for models HS1600 and above, 2 sets for moving mold and 2 sets for fixed mold)	▲	
Differential mold opening circuit	▲	
Pressure protection for injection and mold clamping	▲	
High-pressure mold opening function	▲	
Automatic correction of system pressure and flow	▲	
Alarms for oil temperature and oil level	▲	
High-performance servo pump system	▲	
Interfaces for multiple sets of sequential (injection) valves		△
Automatic oil temperature preheating system		△
High-response accumulator servo injection system		△
Enlarged oil cooler		△
Enlarged multi-stage oil pump motor		△
Enlarged multi-stage plasticizing motor		△
Servo injection (closed-loop control of injection, plasticizing, holding pressure, and back pressure)		△
Synchronous plasticizing		△
Multiple sets of core pulling, rotary demolding, and hydraulic & electrical interfaces		△

OTHERS	STD	OPT
Operation manual	▲	
Adjustable shock-absorbing leveling feet	▲	
Special wrench for nozzle	▲	
One set of water circulation frame, 8 IN/OUT for each of moving and fixed sides (for models HS1200 and above, 12 IN/OUT frame) (normal temperature, quick connectors)	▲	
Mold clamp	▲	
Resin hopper		△
Hydraulic oil		△
Resin feeding platform		△
Mold temperature controller		△
Automatic resin feeding device		△
Dehumidifying dryer		△

▲ Standard function △ Optional function

The parameters on this page are data obtained before printing, and we reserve the right to modify the parameters.

HS

Modular Injection Unit

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

	IU 2450	IU 3700	IU 5200	IU 8700	IU 13700	IU 18200	IU 24000	IU 41000	IU 52000	IU 61000	IU 100000	IU 140000	IU 165000
HS450	65 70 75	70 80 90											
HS650	65 70 75	70 80 90	80 90 100										
HS850		70 80 90	80 90 100	100 110 120									
HS1200			80 90 100	100 110 120	120 130 140								
HS1400				100 110 120	120 130 140	130 140 150							
HS1600				100 110 120	120 130 140	130 140 150							
HS1850					120 130 140	130 140 150	140 150 160						
HS2100					120 130 140	130 140 150	140 150 160	160 170 190					
HS2400						130 140 150	140 150 160	160 170 190					
HS2800							140 150 160	160 170 190	170 180 200	180 200 220			
HS3300							140 150 160	180 170 190	170 180 200	180 200 220			
HS4000										180 200 220	220 240 260	240 260 280	
HS5500											220 240 260	240 260 280	260 280 300
HS6600												200 260 280	260 280 300

TUP-33

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TUP-34