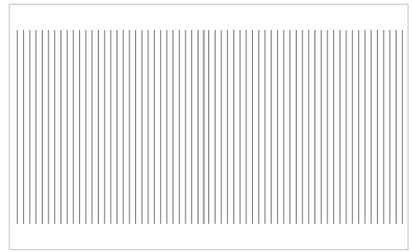
Clamping Unit

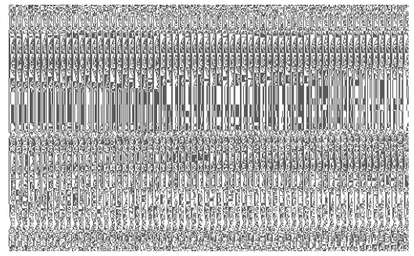
High-rigidity design of movable platen

- Offer great rigidity and uniform distribution of force
- Suitable for injection molding with precision molds
- High repeatability of mold-open end position
- Platen parallelism (with load) 0.05mm(FF60-240)
- Platen parallelism (with load) 0.08mm(FF300-380)
- Faster dry cycle



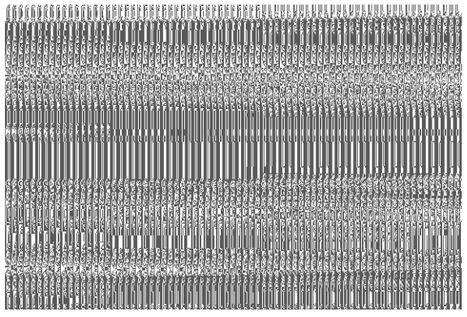
Dual-cylinder parallel ejection design

- Uniform force application for mold release
- Servo motor driven ejection is optional
- Can achieve functions such as various modes of synchronized ejection and ejector retraction, gate cutting inside the mold, etc.
- Accuracy of ejection position up to 0.2mm, conducive to product accuracy and repeatability.



High stability of the TBF technology

- The clamping unit adopts the TBF (Tie Bar Free) technology for easy operation and maintenance
- Keep the mold area clean to prevent product contamination



Linear rail moving design for mold opening /closing

- The directional accuracy reaches 0.02mm
- Fast and steady mold opening/closing speed. Repeatability of mold opening/closing positions ±0.03mm

Unique “SMART” mold protection feature

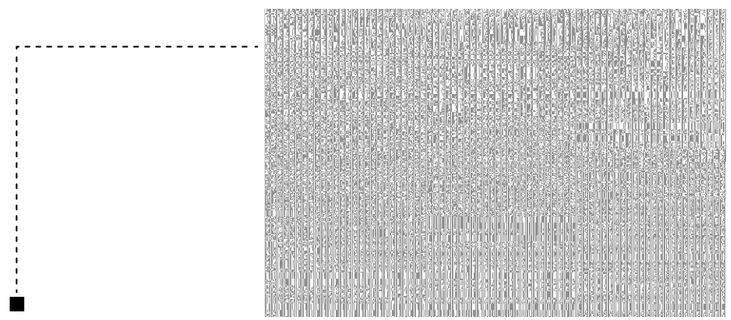
- Can detect very small obstacles and resistance
- Reduce the extent of mold damage when there are foreign objects in the mold cavity or faulty operation occurs

※The data above are derived from YIZUMI’ s lab results and are for your reference only;

Injection Unit

The use of advanced LGS（Linear Guide Support）technology

- Integrated design enhances the overall rigidity of the injection unit
- No unnecessary friction. Fast forward and backward



Close-up

Dedicated screws for different materials

- DIN standards for barrel unit size, processing accuracy, surface finish, and material selection
- Increase the repeatability of injection

Temperature closed loop control

- Static deviation: ±0.5°

Closed loop injection pressure control technology

- Provide more accurate control for more stable, reliable and precise molding
- The stability precision of injection pressure and holding pressure is at ±0.1 Mpa

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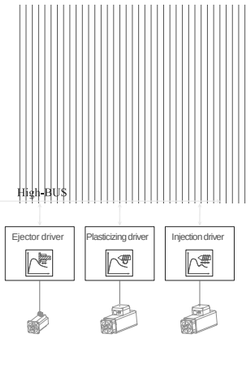
Electrical Control System

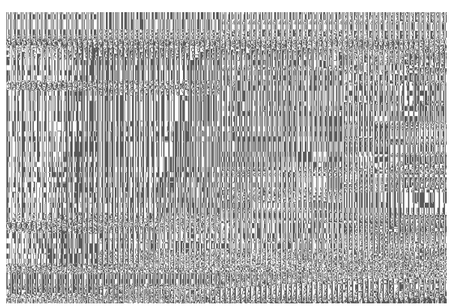
Using European KEBA2000 Controller

- The powerful system is easy to operate and ideal for the high-performance solutions for electric injection molding machines
- 15-inch HD color touchscreen display with clear and neat screen layout
- Standard Process quality control (PDP), and Statistical process control (SPC) features
- Auto-sorting function
- Oscilloscope with chart display function to record the curve of process data change
- Centralized (networked) real-time remote operation and control
- The flexible I/O expansion modules allow integration of more features as needed and are programmable
- Advanced HW and SW systems to support Industry 4.0
- 1ms scan cycle
- 16 levels of user access management to ensure data security



Unique servo direct control (SDC) technology

- Process algorithm independently developed by Yizumi for the servo drive
- Four servo motors control injection, plasticizing, clamping, and ejection independently, allowing faster feedback, more responsive control, and improved control accuracy
- More precise control of speed, position and pressure to meet the requirements of precision equipment



All-metal baseboard for the electric control unit

- Galvanized mounting plate for better cooling and anti-interference capacity

Standardized wiring layout

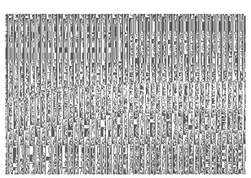
- Neat wiring and standardized interface layout for easy operation

Modular Injection Unit Selections

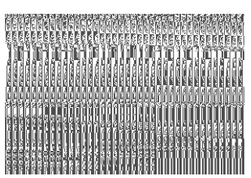
The modular injection unit allows flexible combination with a number of options to quickly meet various application needs:

- 15T~1380T clamping force, 16 clamping modes
- 17 injection unit configurations, screws range Φ14~Φ116mm
- Each clamping mode has the option to select different injection units and 9 types of barrel units
- Cover injection speeds of 160/200/300/350 (mm/s)

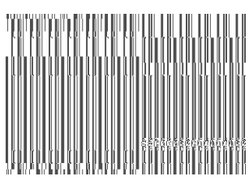
Machine \ Injection unit / Screw	IU32	IU53	IU80	IU130	IU170	IU200	IU320	IU430	IU670	IU930	IU1350	IU1930	IU2700	IU3700	IU4800	IU6800	IU9000
FF15	14,16,19																
FF30	14,16,19	14,16,19,22															
FF60			18,22,26	22,26,30													
FF90					22,26,30	26,30,35	30,35,40										
FF120						26,30,35	30,35,40	35,40,43									
FF160							30,35,40	35,40,43	40,48,53								
FF200								35,40,43	40,48,53	48,53,60							
FF240									40,48,53	48,53,60	53,60,68						
FF300										48,53,60	53,60,68	60,68,76					
FF380											53,60,68	60,68,76	68,76,84				
FF460												60,68,76	68,76,84	76,84,92			
FF550											53,60,68	60,68,76	68,76,84	76,84,92			
FF650												60,68,76	68,76,84	76,84,92	84,92,100		
FF850													68,76,84	76,84,92	84,92,100	92,100,108	
FF1080														76,84,92	84,92,100	92,100,108	100,108,116
FF1380														76,84,92	84,92,100	92,100,108	100,108,116



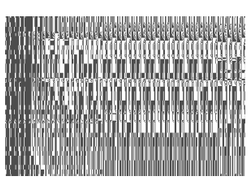
3C products



Automotive parts



Medical consumables



Home appliances

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FF Series Micro Injection Molding (FF15-30)

Separate supports for crosshead guide rod

Separating supports and the tail platen can avoid the impact of tail platen deformation on the crosshead, thus improving balance of toggle motion and minimizing deformation effects on products.

Separate platen supports

The separate supports design ensures more uniform stress distribution and thermal deformation on platen. The optional dual-mold structure for movable platen further reduces mold deformation, making it particularly suitable for precision molding applications.

High-precision linear guides

- Superior platen parallelism and guiding accuracy for precision manufacturing applications.
- Straightness ≤ 0.01mm (for specific stroke)

Optimized platen rigidity

Minimized platen deformation fully ensures balanced force distribution at the center of precision mold, guaranteeing product consistency. Platen parallelism ≤ 0.02mm.

Double-ball-screw electric carriage structure

The nozzle maintains uniform and stable contact force against the mold surface, preventing material leakage while reducing minimizing deformation of the fixed platen caused by uneven force distribution, thereby ensuring stable products.

High-rigidity machine frame

Machine frame structure has been optimized through finite element analysis to improve rigidity and stability.

Effective dust-proof electrical cabinet

- The driver cooling vents are externally mounted on the electrical cabinet, reducing internal heat sources and ensuring more stable and efficient heat dissipation.
- Featuring no air inlets/outlets, this design prevents dust entry and reliably protects the internal components, thereby extending their service life.

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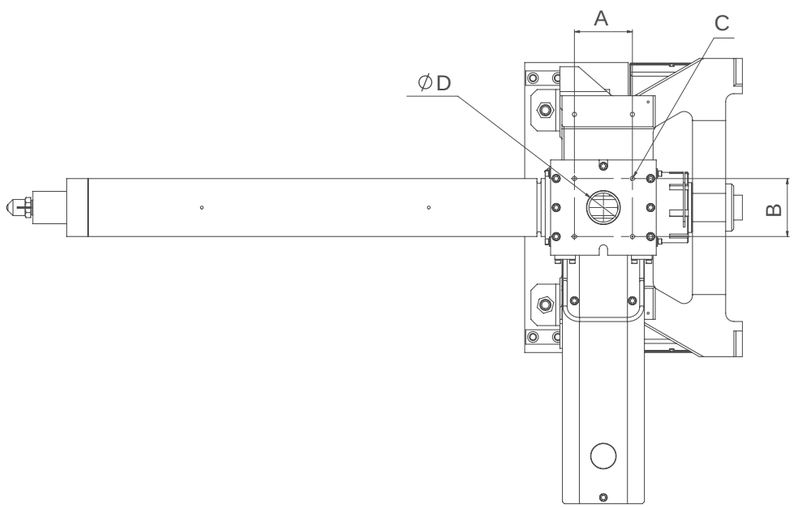
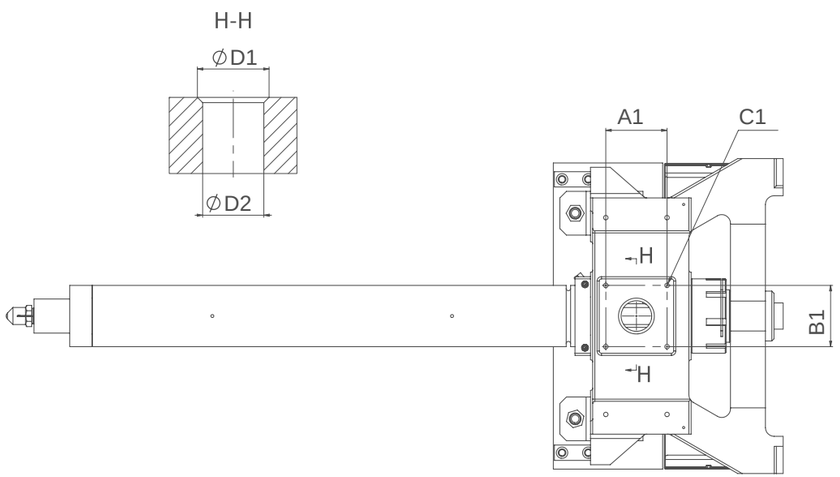
YIZUMI reserves the right of final interpretation upon disputes and ambiguities.

Hopper Installation Hole Dimensions





Model	Movable hopper as standard feature or not	Movable hopper seat dimensions				Injection front platen dimensions				
		A(mm)	B(mm)	C(mm)	D(mm)	A1(mm)	B1(mm)	C1(mm)	D1(mm)	D2(mm)
IU32	ê	60±0.2	60±0.2	4-M6	30	50±0.2	60±0.2	4-M8	40	30
IU53	ê	60±0.2	60±0.2	4-M6	30	50±0.2	60±0.2	4-M8	40	30
IU170	ê	95±0.2	95±0.2	4-M8	60	80±0.2	80±0.2	4-M8	60	50
IU200	ê	95±0.2	95±0.2	4-M8	60	80±0.2	80±0.2	4-M8	60	50
IU320	ê	95±0.2	95±0.2	4-M8	60	80±0.2	80±0.2	4-M8	60	50
IU430	ê	95±0.2	95±0.2	4-M8	60	80±0.2	80±0.2	4-M8	62	52
IU670	ê	95±0.2	95±0.2	4-M8	60	95±0.2	95±0.2	4-M8	70	60
IU930	ê	95±0.2	95±0.2	4-M8	60	95±0.2	95±0.2	4-M8	70	60
IU1350	ê	140±0.2	140±0.2	4-M12	80	140±0.2	140±0.2	4-M12	82	70
IU1930	ê	140±0.2	140±0.2	4-M12	80	140±0.2	140±0.2	4-M12	90	80
IU2700	ê	140±0.2	140±0.2	4-M12	80	140±0.2	140±0.2	4-M12	100	90
IU3700	ê	140±0.2	140±0.2	4-M12	80	140±0.2	140±0.2	4-M12	112	100
IU4800	ê	160±0.2	160±0.2	4-M16	90	160±0.2	160±0.2	4-M16	120	110
IU6800	ê	160±0.2	160±0.2	4-M16	90	160±0.2	160±0.2	4-M16	126	116
IU9000	ê	160±0.2	160±0.2	4-M16	90	160±0.2	160±0.2	4-M16	126	116

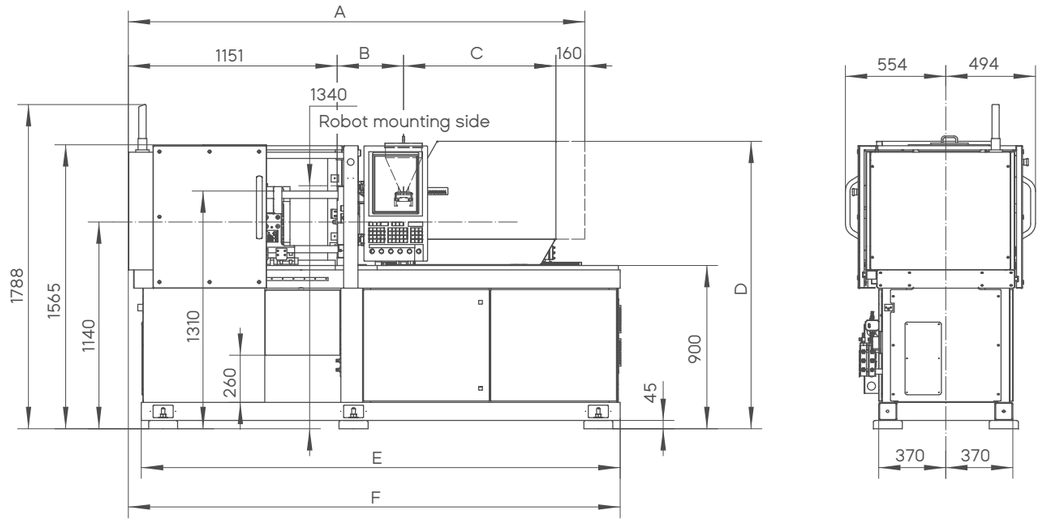
※The data above are derived from YIZUMI' s lab results and are for your reference only;

FF15

		FF15		
CLAMPING UNIT				
Clamping force	kN	150		
Mold opening/closing stroke	mm	160		
Space between tie bars	mm	260×260		
Mold thickness	mm	130-260		
Ejector stroke	mm	50		
Ejector force	kN	7		
Number of ejectors	-	1		
INJECTION UNIT				
Model of injection unit		IU32		
International specification		32		
		A	B	C
Screw diameter	mm	14	16	19
Screw L/D ratio	-	18	18	18
Screw stroke	mm	49	56	66
Stroke-bore ratio	-	3.5	3.5	3.47
Shot volume	cm	7.5	11.3	18.7
Shot weight (PS)	g	6.9	10.4	17.2
Injection pressure	MPa	230	285	200
Holding pressure	MPa	200	260	160
Injection speed (Std.)	mm/s	300		
Injection rate (Std.)	g/s	42	55	78
Screw speed	rpm	400		
Nozzle contact force	kN	3/7		
Heating power	kW	1.5	1.9	2.5
Total power	kw	12.1		
Total current	A	31.2		
GENERAL				
Dry cycle	s	1.1		
Machine weight	kg	-		

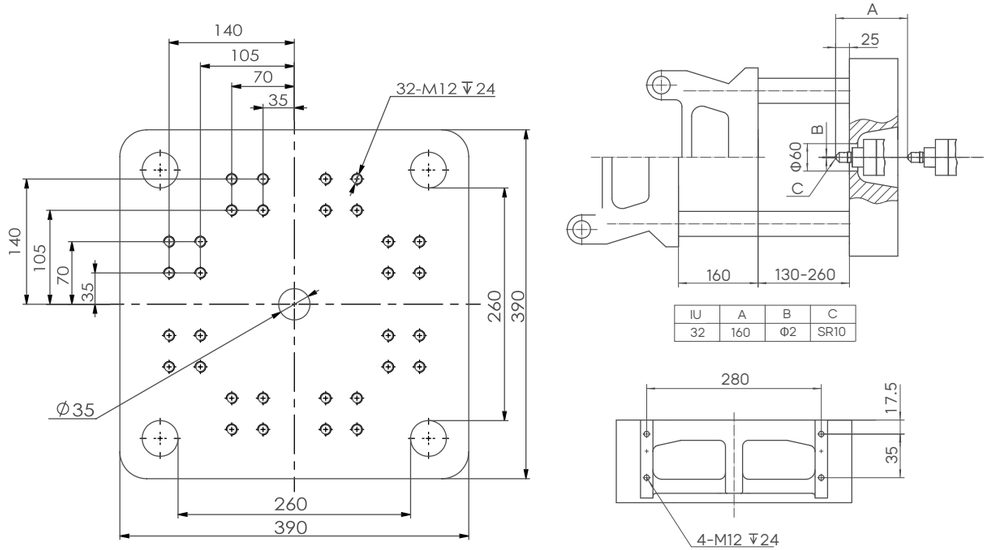
※The data above were acquired by testing in the factory, only for your reference.

Machine Dimensions



Model	A(A/B/C Screw)	B(A/B/C Screw)	C	D	E	F
IU32	2476/2517/2577	325/366/426	840	1585	2640	2711

Platen Dimensions



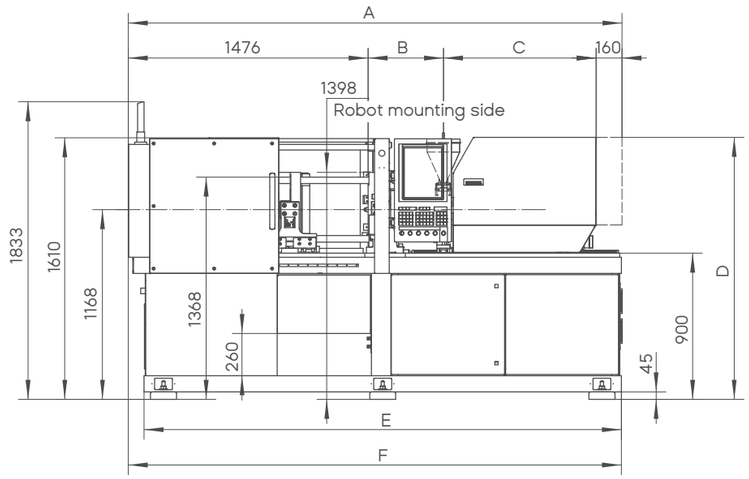
IU	A	B	C
32	160	Φ2	SR10

FF30

		FF30						
CLAMPING UNIT								
Clamping force	kN	300						
Mold opening/closing stroke	mm	230						
Space between tie bars	mm	320×320						
Mold thickness	mm	150-360						
Ejector stroke	mm	60						
Ejector force	kN	10						
Number of ejectors	-	1						
INJECTION UNIT								
Model of injection unit		IU32			IU53			
International specification		32			53			
		A	B	C	AA	A	B	C
Screw diameter	mm	14	16	19	14	16	19	22
Screw L/D ratio	-	18	18	18	18	18	20	20
Screw stroke	mm	49	56	66	49	56	66	77
Stroke-bore ratio	-	3.5	3.5	3.47	3.5	3.5	3.47	3.5
Shot volume	cm	7.5	11.3	18.7	7.5	11.3	18.7	29.3
Shot weight (PS)	g	6.9	10.4	17.2	6.9	10.4	17.2	27
Injection pressure	MPa	230	285	200	230	285	285	212
Holding pressure	MPa	200	260	180	200	260	260	180
Injection speed (Std.)	mm/s	300			300			
Injection rate (Std.)	g/s	42	55	78	42	55	78	105
Screw speed	rpm	400			400			
Nozzle contact force	kN	3/7			3/10			
Heating power	kW	1.5	1.9	2.5	1.5	1.9	2.5	3.2
Total power	kw	12.1			16.2			
Total current	A	31.2			37.4			
GENERAL								
Dry cycle	s	1.3						
Machine weight	kg	2450						

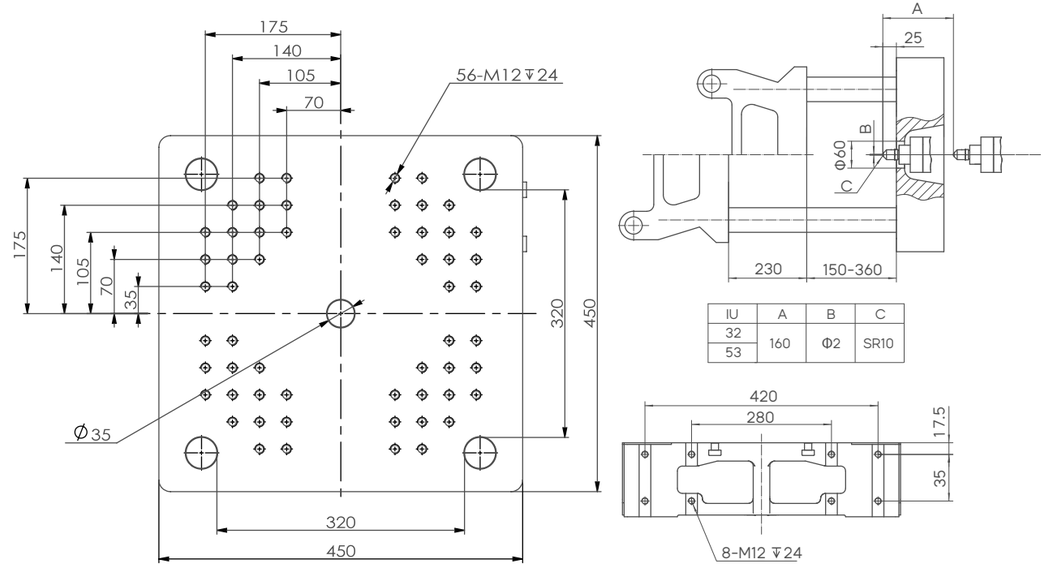
※The data above were acquired by testing in the factory, only for your reference.

Machine Dimensions



Model	A(AA/A/B/C Screw)	B(AA/A/B/C Screw)	C	D	E	F
IU32	2802/2842/2903	325/366/426	840	1613	2940	3036
IU53	2902/2943/3041/3107	325/366/464/530	940			

Platen Dimensions



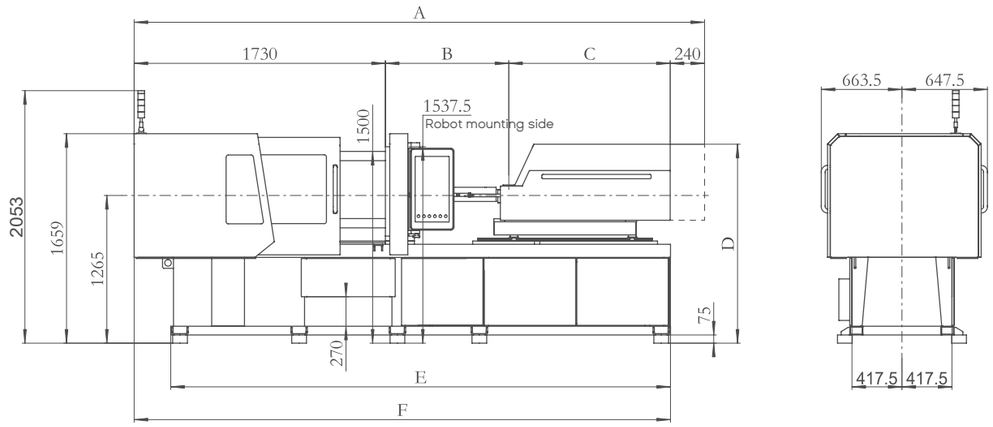
IU	A	B	C
32 53	160	Φ2	SR10

FF60

FF60							
CLAMPING UNIT							
Clamping force	kN	600					
Mold opening/ closing stroke	mm	270					
Space between tie bars	mm	370×370					
Mold thickness	mm	150-370					
Ejector stroke	mm	80					
Ejector force	kN	19.6					
Number of ejectors	-	5					
INJECTION UNIT							
Model of injection unit		IU80 / IU80h			IU130 / IU130h		
International specification		84			134		
		A	B	C	A	B	C
Screw diameter	mm	18	22	26	22	26	30
Screw L/D ratio	-	22	22	22	22	22	22
Screw stroke	mm	100			115		
Stroke-bore ratio	-	5.56	4.55	3.85	5.23	4.42	3.83
Shot volume	cm^3	25	38	53	44	61	81
Shot weight (PS)	g	22.8	34.6	48.2	40	56	75
Injection pressure	MPa	260	220	157	280	220	165
Holding pressure	MPa	208	176	125	224	176	132
Injection speed (Std./Opt.)	mm/s	200/350			200/350		
Injection rate	g/s	45	69	96	68	96	128
Screw speed	rpm	400			400		
Nozzle contact force	kN	26			26		
Heating power	kW	3.4	4.1	5.1	5.1	6.1	7.1
Total power	kW	20.9/30.4			29.8/36.3		
Total current	A	35.3/51.3			50.3/61.3		
GENERAL							
Dry cycle	s	1.44					
Oil pump motor	kW	7.1					
Max. system pressure	Mpa	17.5					
System flow	L/min	36					
Oil tank capacity	L	45					
Machine weight	kg	-					

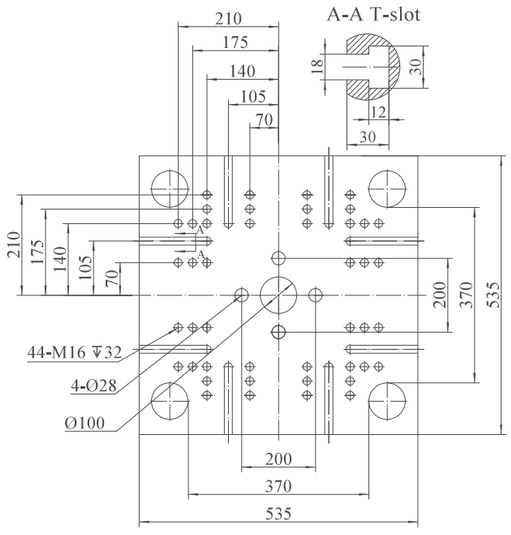
※The data above were acquired by testing in the factory, only for your reference.

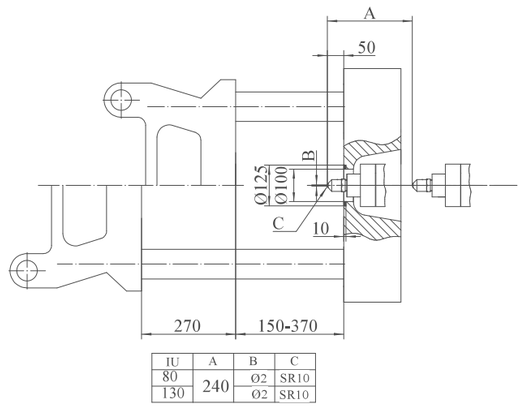
Machine Dimensions



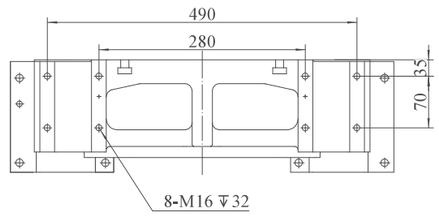
Model	A(A/B/C Screw)	B(A/B/C Screw)	C	D	E	F
IU80	3754/3848/3922	528/622/696	1256	1732	3980	4095
IU130	3839/3934/4040	626/721/827	1243			

Platen Dimensions





IU	A	B	C
80	240	Ø2	SR10
130		Ø2	SR10



FF90

FF90										
CLAMPING UNIT										
Clamping force	kN	900								
Mold opening/ closing stroke	mm	320								
Space between tie bars	mm	420×420								
Mold thickness	mm	150-410								
Ejector stroke	mm	80								
Ejector force	kN	22.6								
Number of ejectors	-	5								
INJECTION UNIT										
Model of injection unit		IU170 / IU170h			IU200 / IU200h			IU320 / IU320h		
International specification		165			198			318		
		A	B	C	A	B	C	A	B	C
Screw diameter	mm	22	26	30	26	30	35	30	35	40
Screw L/D ratio	-	22	22	22	22	22	20	24	20	20
Screw stroke	mm	115			140			165		
Stroke-bore ratio	-	5.23	4.42	3.83	5.4	4.7	4.0	5.5	4.7	4.1
Shot volume	cm^3	44	61	81	74	99	135	117	159	207
Shot weight (PS)	g	40	56	75	68	91	124	107	146	191
Injection pressure	MPa	377	270	203	266	200	147	272	200	153
Holding pressure	MPa	302	216	162	213	160	118	218	160	123
Injection speed (Std./Opt.)	mm/s	200/350			200/350			200/350		
Injection rate	g/s	70	98	130	98	130	177	141	192	251
Screw speed	rpm	400			400			400		
Nozzle contact force	kN	20			20			30		
Heating power	kW	5.1	6.1	7.1	6.1	7.1	8.1	7.1	7.1	8.1
Total power	kW	28.4/44.4			29.8/47			40.4/49.3		
Total current	A	47.9/74.9			50.3/79.3			68.2/83.2		
GENERAL										
Dry cycle	s	1.44								
Oil pump motor	kW	12.4								
Max. system pressure	Mpa	16								
System flow	L/min	50								
Oil tank capacity	L	106								
Machine weight	kg	4030			4040			4050		

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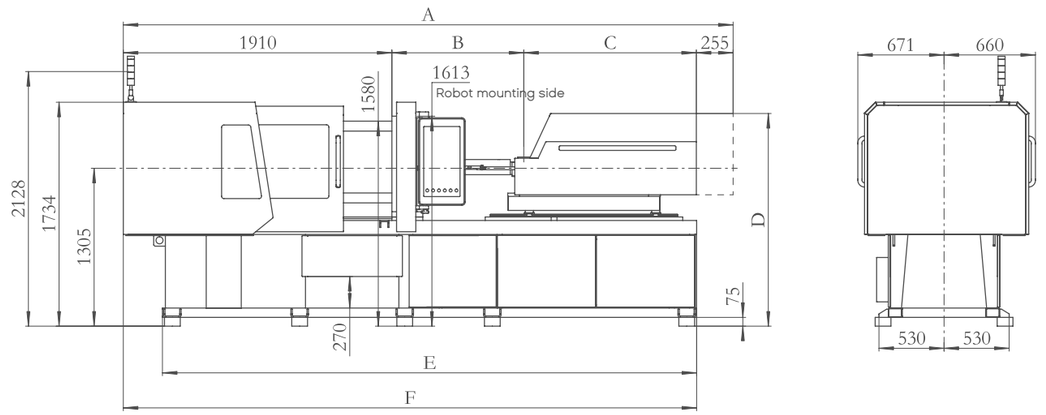
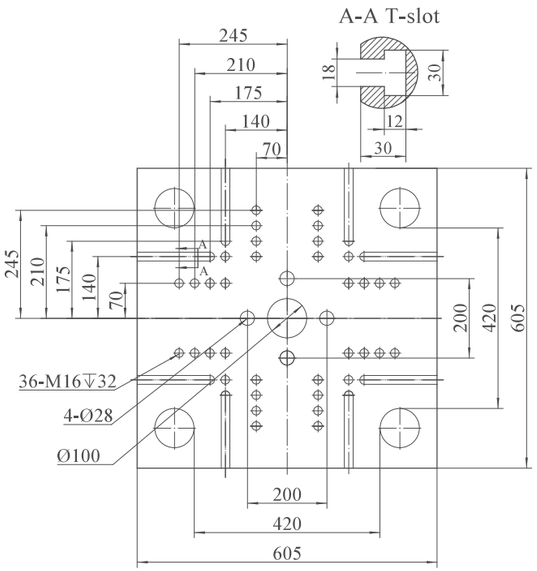
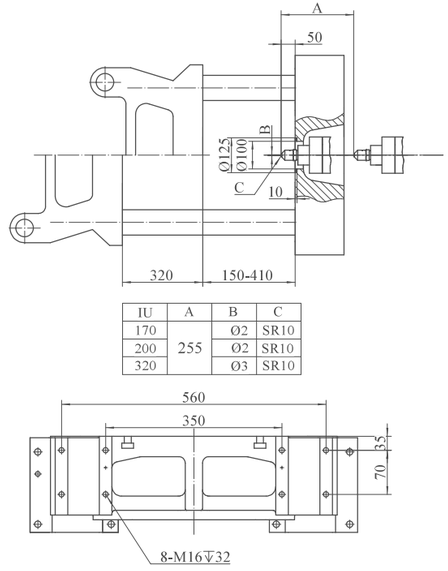
Machine Dimensions



Model	A(A/ B/C Screw)	B(A/B /C Screw)	C	D	E	F
IU170	4053/4148/4254	626/721/827	1262	1772	4135	4430
IU200	4148/4254/4313	721/827/886				
IU320	4508/4508/4583	866/866/941	1477	1774		

Platen Dimensions





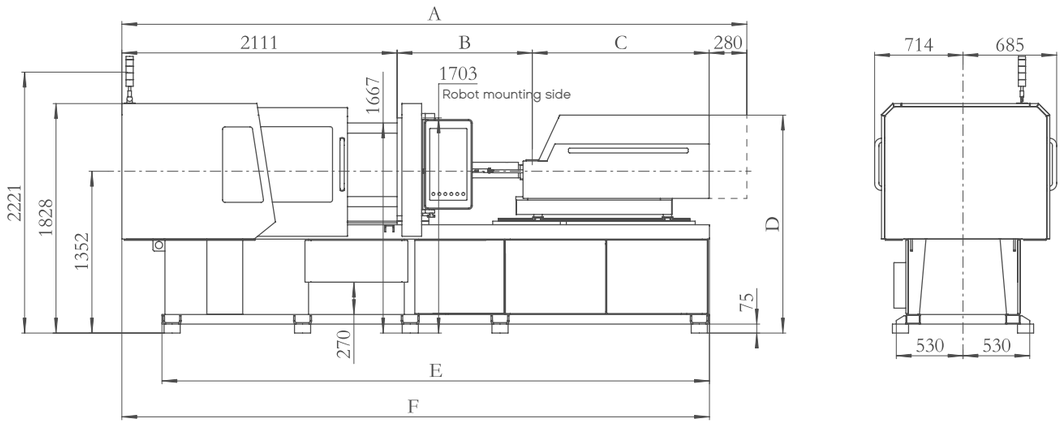
IU	A	B	C
170	255	Ø2	SR10
200		Ø2	SR10
320		Ø3	SR10

FF120

FF120										
CLAMPING UNIT										
Clamping force	kN	1200								
Mold opening/ closing stroke	mm	370								
Space between tie bars	mm	480×480								
Mold thickness	mm	150-480								
Ejector stroke	mm	100								
Ejector force	kN	40								
Number of ejectors	-	5								
INJECTION UNIT										
Model of injection unit		IU200 / IU200h			IU320 / IU320h			IU430 / IU430h		
International specification		198			318			428		
		A	B	C	A	B	C	A	B	C
Screw diameter	mm	26	30	35	30	35	40	35	40	43
Screw L/D ratio	-	22	22	20	24	20	20	24	20	20
Screw stroke	mm	140			165			170		
Stroke-bore ratio	-	5.4	4.7	4.0	5.5	4.7	4.1	4.9	4.3	4.0
Shot volume	cm^3	74	99	135	117	159	207	164	214	247
Shot weight (PS)	g	68	91	124	107	146	191	150	197	227
Injection pressure	MPa	266	200	147	272	200	153	261	200	173
Holding pressure	MPa	213	160	118	218	160	123	209	160	138
Injection speed (Std./Opt.)	mm/s	200/350			200/350			200/300		
Injection rate	g/s	98	130	177	130	177	231	177	231	267
Screw speed	rpm	400			400			400		
Nozzle contact force	kN	20			30			40		
Heating power	kW	6.1	7.1	8.1	7.1		8.1	8.9		
Total power	kW	29.8/47			40.4/49.3			51.1/65.3		
Total current	A	50.3/79.3			68.2/83.2			86.2/110.2		
GENERAL										
Dry cycle	s	1.66								
Oil pump motor	kW	12.4								
Max. system pressure	Mpa	16								
System flow	L/min	50								
Oil tank capacity	L	106								
Machine weight	kg	4800			4940			5400		

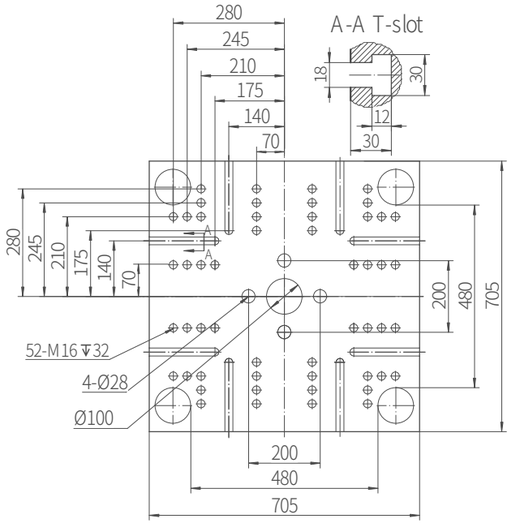
※The data above were acquired by testing in the factory, only for your reference.

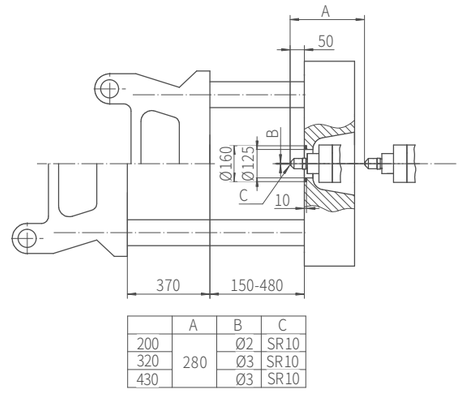
Machine Dimensions



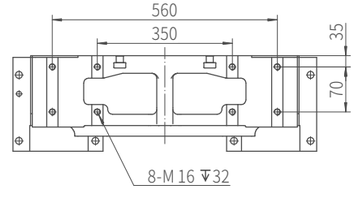
Model	A(A/ B/C Screw)	B(A/B /C Screw)	C	D	E	F
IU200	4375/4481/4540	721/827/886	1263	1820	4336	4671
IU320	4735/4735/4810	866/866/941	1478	1822		
IU430	4853	1007	1455			

Platen Dimensions





	A	B	C
200	280	Ø2	SR10
320		Ø3	SR10
430		Ø3	SR10

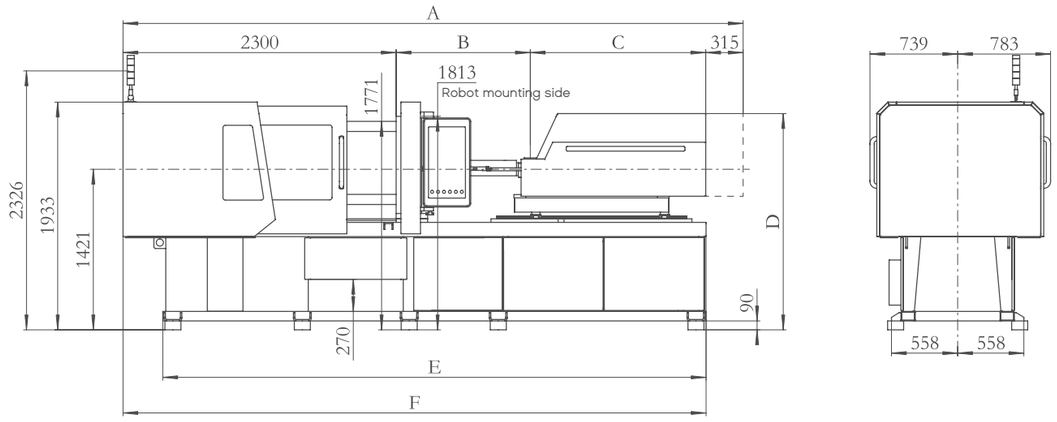


FF160

FF160										
CLAMPING UNIT										
Clamping force	kN	1600								
Mold opening/ closing stroke	mm	430								
Space between tie bars	mm	530×530								
Mold thickness	mm	175-520								
Ejector stroke	mm	125								
Ejector force	kN	40								
Number of ejectors	-	5								
INJECTION UNIT										
Model of injection unit		IU320 / IU320h			IU430 / IU430h			IU670 / IU670h		
International specification		318			428			668		
		A	B	C	A	B	C	A	B	C
Screw diameter	mm	30	35	40	35	40	43	40	48	53
Screw L/D ratio	-	24	20	20	24	20	20	22.3	20	20
Screw stroke	mm	165			170			205		
Stroke-bore ratio	-	5.5	4.7	4.1	4.9	4.3	4.0	5.1	4.3	3.9
Shot volume	cm^3	117	159	207	164	214	247	258	371	452
Shot weight (PS)	g	107	146	191	150	197	227	237	341	416
Injection pressure	MPa	272	200	153	261	200	173	259	180	148
Holding pressure	MPa	218	160	123	209	160	138	207	144	118
Injection speed (Std./Opt.)	mm/s	200/350			200/300			160/250		
Injection rate	g/s	130	177	231	177	231	267	185	266	325
Screw speed	rpm	400			400			350		
Nozzle contact force	kN	30			40			40		
Heating power	kW	7.1		8.1	8.9			10.6	10.9	12.1
Total power	kW	40.4/49.3			51.1/65.3			53.8/56.8		
Total current	A	68.2/83.2			86.2/110.2			90.9/95.9		
GENERAL										
Dry cycle	s	1.84								
Oil pump motor	kW	12.4								
Max. system pressure	Mpa	16								
System flow	L/min	50								
Oil tank capacity	L	106								
Machine weight	kg	5850			6300			6380		

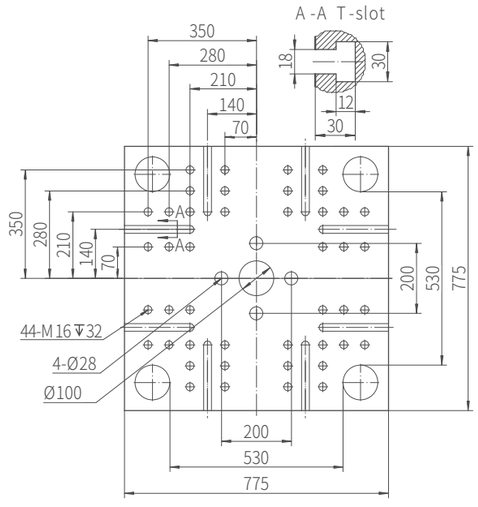
※The data above were acquired by testing in the factory, only for your reference.

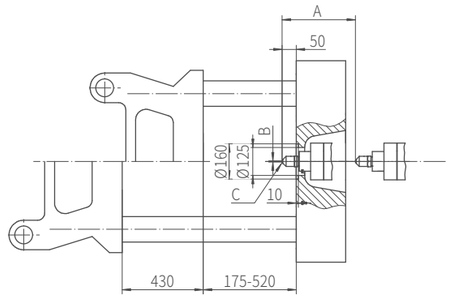
Machine Dimensions



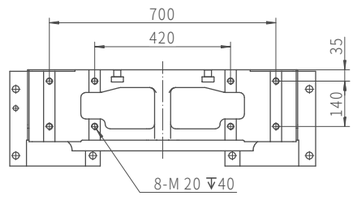
Model	A(A/ B/C Screw)	B(A/B /C Screw)	C	D	E	F
IU320	4959/4959/5034	866/866/941	1478	1890	4525	4860
IU430	5077	1007	1455			
IU670	5414/5414/5514	1106/1106/1206	1693	1824	4915	5350

Platen Dimensions





	A	B	C
320	315	Ø3	SR10
430		Ø3	SR10
670		Ø3	SR10

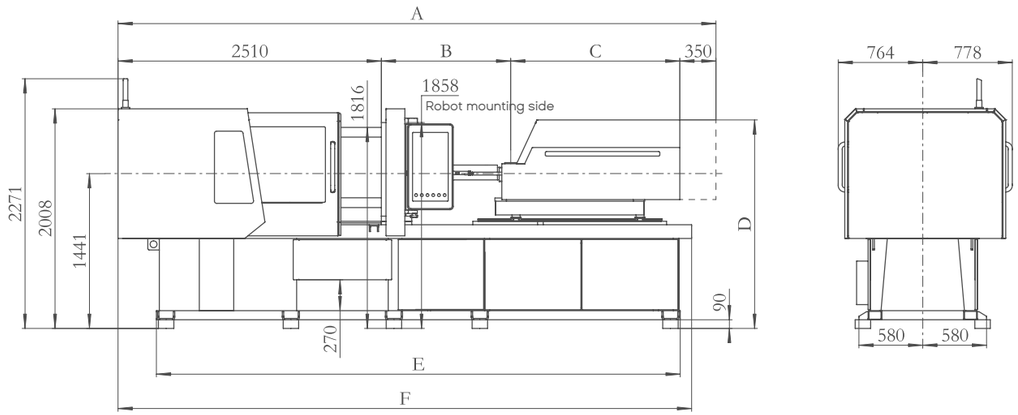


FF200

FF200										
CLAMPING UNIT										
Clamping force	kN	2000								
Mold opening/ closing stroke	mm	480								
Space between tie bars	mm	580×580								
Mold thickness	mm	200-560								
Ejector stroke	mm	125								
Ejector force	kN	40								
Number of ejectors	-	9								
INJECTION UNIT										
Model of injection unit		IU430 / IU430h			IU670 / IU670h			IU930		
International specification		428			668			933		
		A	B	C	A	B	C	A	B	C
Screw diameter	mm	35	40	43	40	48	53	48	53	60
Screw L/D ratio	-	24	20	20	22.3	20	20	22	20	20
Screw stroke	mm	170			205			235		
Stroke-bore ratio	-	4.9	4.3	4.0	5.1	4.3	3.9	4.9	4.4	3.9
Shot volume	cm^3	164	214	247	258	371	452	425	518	664
Shot weight (PS)	g	150	197	227	237	341	416	391	477	611
Injection pressure	MPa	261	200	173	259	180	148	219	180	140
Holding pressure	MPa	209	160	138	207	144	118	176	144	112
Injection speed (Std./Opt.)	mm/s	200/300			160/250			160		
Injection rate	g/s	177	231	267	185	266	325	266	325	416
Screw speed	rpm	400			350			320		
Nozzle contact force	kN	40			40			60		
Heating power	kW	8.9			10.6	10.9	12.1	13.6		16.7
Total power	kw	51.1/65.3			53.8/56.8			58.2		
Total current	A	86.2/110.2			90.9/95.9			98.2		
GENERAL										
Dry cycle	s	2.04								
Oil pump motor	kW	12.4								
Max. system pressure	Mpa	16								
System flow	L/min	50								
Oil tank capacity	L	106								
Machine weight	kg	6730			6810			7450		

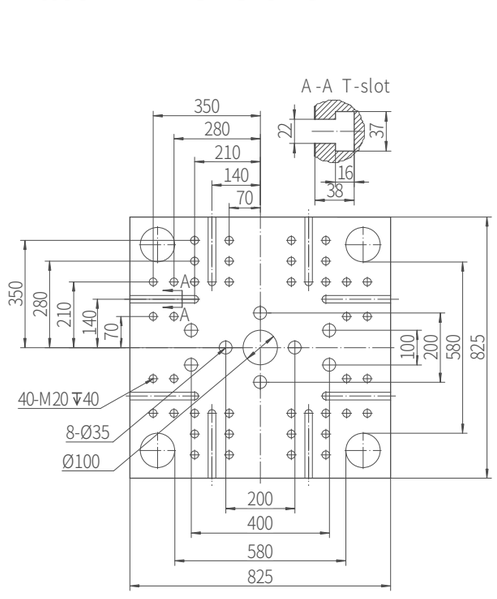
※The data above were acquired by testing in the factory, only for your reference.

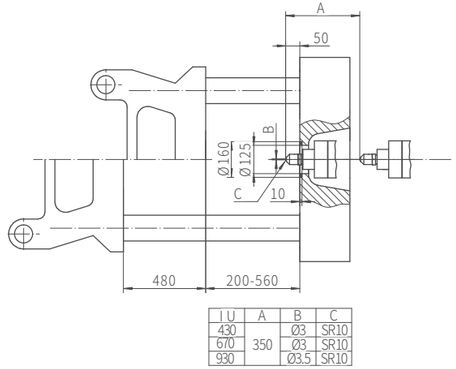
Machine Dimensions



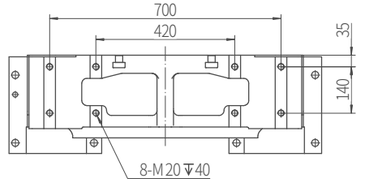
Model	A(A/ B/C Screw)	B(A/B /C Screw)	C	D	E	F
IU430	5322	1007	1455	1837	5115	5550
IU670	5659/5659/5759	1106/1106/1206	1693	1907		
IU930	5949/5949/6093	1219/1219/1363	1870	2022	5415	5850

Platen Dimensions





I U	A	B	C
430	350	Ø3	SR10
670		Ø3	SR10
930		Ø3.5	SR10

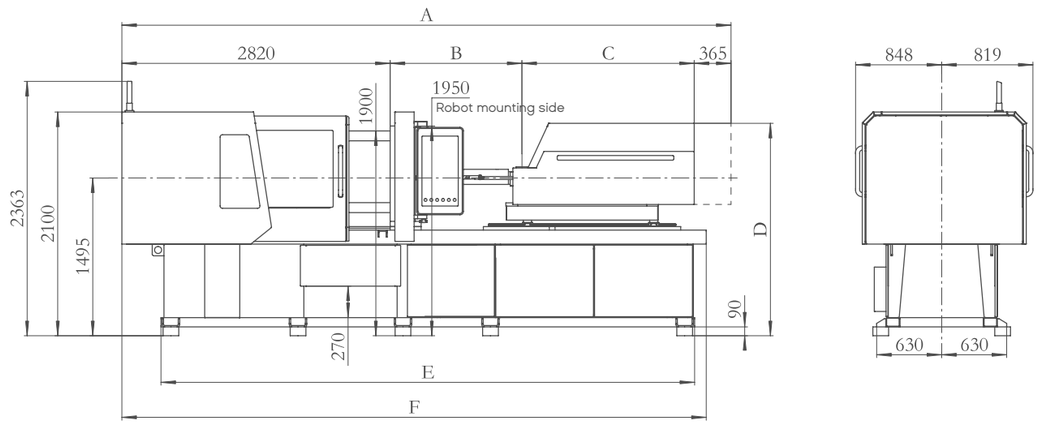


FF240

FF240										
CLAMPING UNIT										
Clamping force	kN	2400								
Mold opening/ closing stroke	mm	530								
Space between tie bars	mm	630×630								
Mold thickness	mm	220-600								
Ejector stroke	mm	150								
Ejector force	kN	55.6								
Number of ejectors	-	13								
INJECTION UNIT										
Model of injection unit		IU670 / IU670h			IU930			IU1350		
International specification		668			933			1349		
		A	B	C	A	B	C	A	B	C
Screw diameter	mm	40	48	53	48	53	60	53	60	68
Screw L/D ratio	-	22.3	20	20	22	20	20	22.6	20	20
Screw stroke	mm	205			235			265		
Stroke-bore ratio	-	5.1	4.3	3.9	4.9	4.4	3.9	5.0	4.4	3.9
Shot volume	cm^3	258	371	452	425	518	664	585	749	962
Shot weight (PS)	g	237	341	416	391	477	611	538	689	885
Injection pressure	MPa	259	180	148	219	180	140	231	180	140
Holding pressure	MPa	207	144	118	176	144	112	185	144	112
Injection speed (Std./Opt.)	mm/s	160/250			160			160		
Injection rate	g/s	185	266	325	266	325	416	325	416	535
Screw speed	rpm	350			320			300		
Nozzle contact force	kN	40			60			60		
Heating power	kW	10.6	10.9	12.1	13.6		16.7	16.4		18.8
Total power	kw	53.8/56.8			58.2			88.9		
Total current	A	90.9/95.9			98.2			150.1		
GENERAL										
Dry cycle	s	2.36								
Oil pump motor	kW	17.8								
Max. system pressure	Mpa	17.5								
System flow	L/min	64								
Oil tank capacity	L	106								
Machine weight	kg	9200			9840			10950		

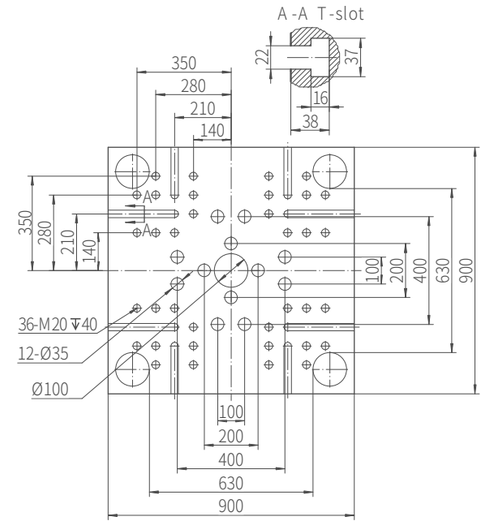
※The data above were acquired by testing in the factory, only for your reference.

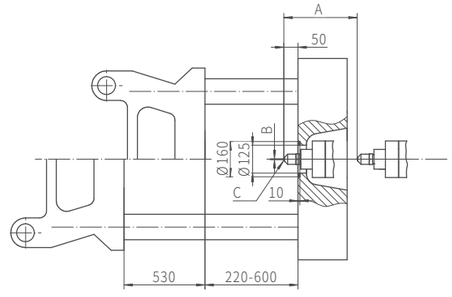
Machine Dimensions



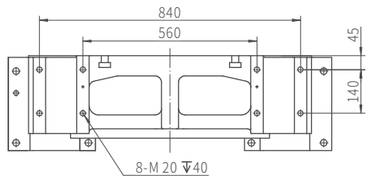
Model	A(A/B/C Screw)	B(A/B/C Screw)	C	D	E	F
IU670	5924/5984/6084	1046/1106/1206	1693	1962	5705	6190
IU930	6274/6274/6418	1219/1219/1363	1870	2075		
IU1350	6799/6799/6959	1391/1391/1551	2223	2110	6335	6820

Platen Dimensions





IU	A	B	C
670	355	Ø3	SR10
930	365	Ø3.5	SR10
1350		Ø3.5	SR10

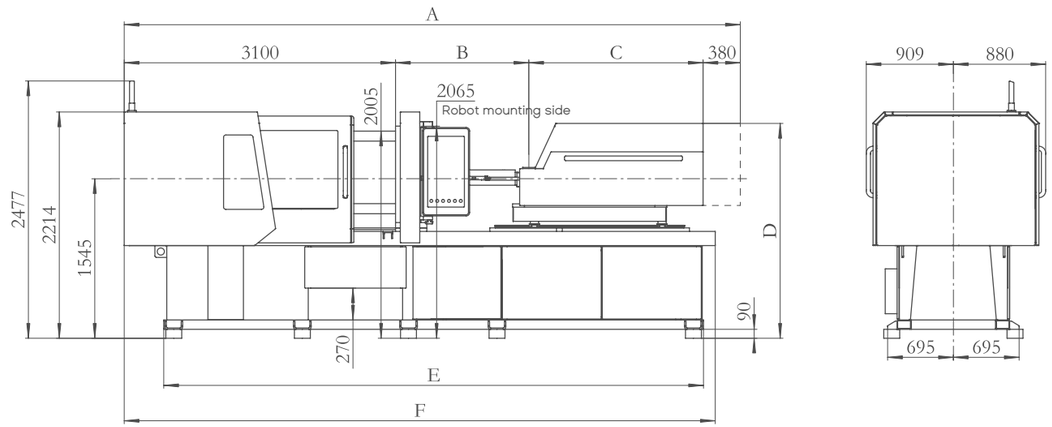


FF300

FF300										
CLAMPING UNIT										
Clamping force	kN	3000								
Mold opening/ closing stroke	mm	610								
Space between tie bars	mm	720×720								
Mold thickness	mm	250-650								
Ejector stroke	mm	150								
Ejector force	kN	55.6								
Number of ejectors	-	13								
INJECTION UNIT										
Model of injection unit		IU930			IU1350			IU1930		
International specification		933			1349			1928		
		A	B	C	A	B	C	A	B	C
Screw diameter	mm	48	53	60	53	60	68	60	68	76
Screw L/D ratio	-	22	20	20	22.6	20	20	22.6	20	20
Screw stroke	mm	235			265			295		
Stroke-bore ratio	-	4.9	4.4	3.9	5.0	4.4	3.9	4.9	4.3	3.9
Shot volume	cm^3	425	518	664	585	749	962	834	1071	1338
Shot weight (PS)	g	391	477	611	538	689	885	767	986	1231
Injection pressure	MPa	219	180	140	231	180	140	231	180	144
Holding pressure	MPa	176	144	112	185	144	112	185	144	115
Injection speed (Std./Opt.)	mm/s	160			160			160		
Injection rate	g/s	266	325	416	325	416	535	416	535	668
Screw speed	rpm	320			300			250		
Nozzle contact force	kN	60			60			60		
Heating power	kW	13.6		16.7	16.4		18.8	22.2		24.6
Total power	kw	58.2			88.9			94.6		
Total current	A	98.2			150.1			159.7		
GENERAL										
Dry cycle	s	2.5								
Oil pump motor	kW	17.8								
Max. system pressure	Mpa	17.5								
System flow	L/min	64								
Oil tank capacity	L	106								
Machine weight	kg	11370			12480			12900		

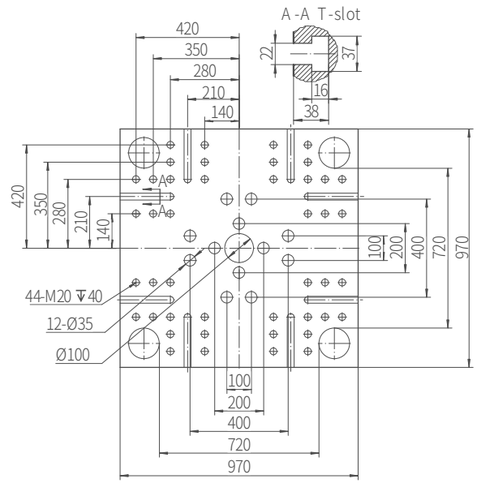
※The data above were acquired by testing in the factory, only for your reference.

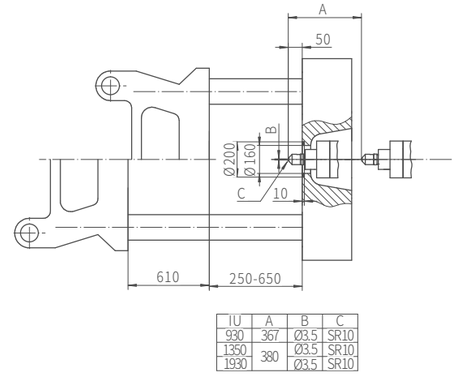
Machine Dimensions



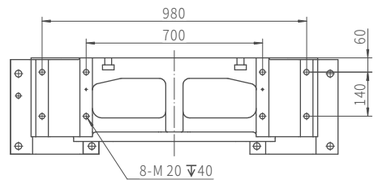
Model	A(A/ B/C Screw)	B(A/B /C Screw)	C	D	E	F
IU930	6569/6569/6713	1219/1219/1363	1870	2125	6445	7010
IU1350	7094/7094/7254	1391/1391/1551	2223	2160		
IU1930	7085/7085/7260	1565/1565/1740	2040	2270		

Platen Dimensions





IU	A	B	C
930	367	Ø3.5	SR10
1350	380	Ø3.5	SR10
1930		Ø3.5	SR10

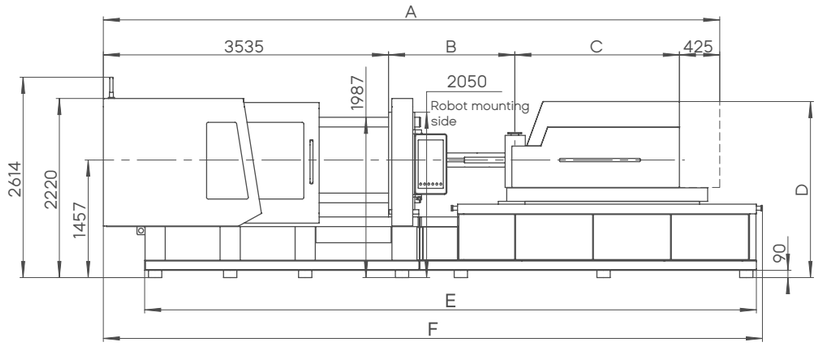


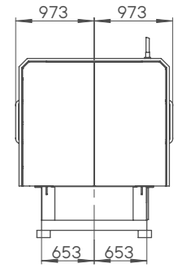
FF380

FF380										
CLAMPING UNIT										
Clamping force	kN	3800								
Mold opening/ closing stroke	mm	710								
Space between tie bars	mm	820×820								
Mold thickness	mm	290-720								
Ejector stroke	mm	200								
Ejector force	kN	99								
Number of ejectors	-	13								
INJECTION UNIT										
Model of injection unit		IU1350			IU1930			IU2700		
International specification		1349			1928			2695		
		A	B	C	A	B	C	A	B	C
Screw diameter	mm	53	60	68	60	68	76	68	76	84
Screw L/D ratio	-	22.6	20	20	22.6	20	20	22.3	20	20
Screw stroke	mm	265			295			330		
Stroke-bore ratio	-	5.0	4.4	3.9	4.9	4.3	3.9	4.9	4.3	3.9
Shot volume	cm^3	585	749	962	834	1071	1338	1198	1497	1829
Shot weight (PS)	g	538	689	885	767	986	1231	1103	1377	1682
Injection pressure	MPa	231	180	140	231	180	144	225	180	147
Holding pressure	MPa	185	144	112	185	144	115	180	144	118
Injection speed (Std./Opt.)	mm/s	160			160			160		
Injection rate	g/s	325	416	535	416	535	668	535	668	816
Screw speed	rpm	300			250			200		
Nozzle contact force	kN	60			60			100		
Heating power	kW	16.4		18.8	22.2		24.6	26.3		30.9
Total power	kW	88.9			94.6			108.1		
Total current	A	150.1			159.7			182.5		
GENERAL										
Dry cycle	s	2.8								
Oil pump motor	kW	25.2								
Max. system pressure	Mpa	17.5								
System flow	L/min	126								
Oil tank capacity	L	189								
Machine weight	kg	16880			17300			18690		

※The data above were acquired by testing in the factory, only for your reference.

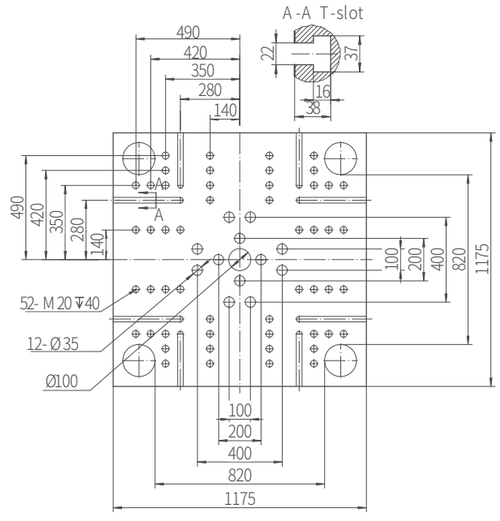
Machine Dimensions

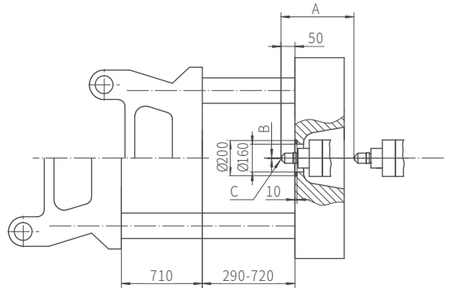




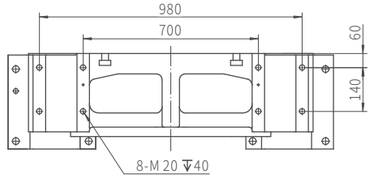
Model	A(A/ B/C Screw)	B(A/B /C Screw)	C	D	E	F
IU1350	7574/7574/7734	1391/1391/1551	2223	2072	7190	7777
IU1930	7565/7565/7740	1565/1565/1740	2040	2182		
IU2700	8102/8102/8275	1769/1769/1942	2373		7582	8169

Platen Dimensions





I.U	A	B	C
1350	405	Ø3.5	SR10
1930	425	Ø3.5	SR10
2700		Ø4	SR15

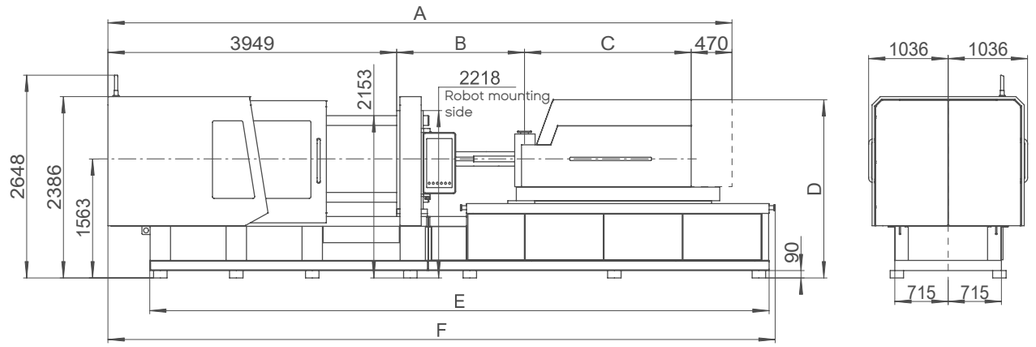


FF460

FF460										
CLAMPING UNIT										
Clamping force	kN	4600								
Mold opening/ closing stroke	mm	810								
Space between tie bars	mm	920×920								
Mold thickness	mm	330-810								
Ejector stroke	mm	200								
Ejector force	kN	99								
Number of ejectors	-	17								
INJECTION UNIT										
Model of injection unit		IU1930			IU2700			IU3700		
International specification		1928			2695			3691		
		A	B	C	A	B	C	A	B	C
Screw diameter	mm	60	68	76	68	76	84	76	84	92
Screw L/D ratio	-	22.6	20	20	22.3	20	20	22.1	20	20
Screw stroke	mm	295			330			370		
Stroke-bore ratio	-	4.9	4.3	3.9	4.9	4.3	3.9	4.9	4.4	4.0
Shot volume	cm^3	834	1071	1338	1198	1497	1829	1678	2050	2460
Shot weight (PS)	g	767	986	1231	1103	1377	1682	1544	1886	2263
Injection pressure	MPa	231	180	144	225	180	147	220	180	150
Holding pressure	MPa	185	144	115	180	144	118	176	144	120
Injection speed (Std./Opt.)	mm/s	160			160			160		
Injection rate	g/s	416	535	668	535	668	816	668	816	979
Screw speed	rpm	250			200			180		
Nozzle contact force	kN	60			100			100		
Heating power	kW	22.2		24.6	26.3		30.9	33.1		36.1
Total power	kW	94.6			108.1			138.8		
Total current	A	159.7			182.5			234.4		
GENERAL										
Dry cycle	s	3.1								
Oil pump motor	kW	25.2								
Max. system pressure	Mpa	17.5								
System flow	L/min	126								
Oil tank capacity	L	189								
Machine weight	kg	21460			22860			23150		

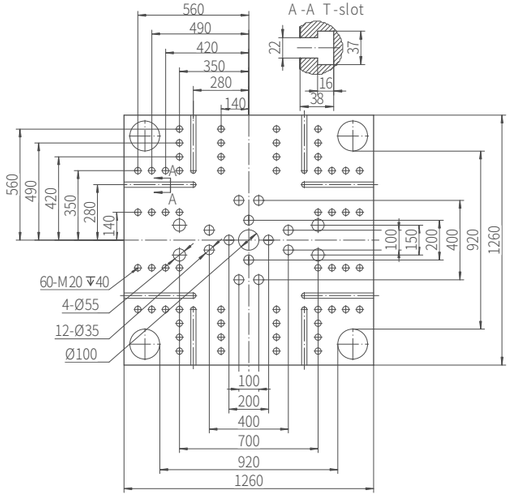
※The data above were acquired by testing in the factory, only for your reference.

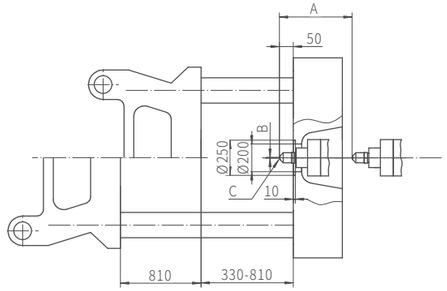
Machine Dimensions



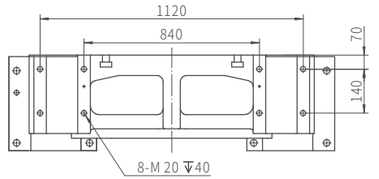
Model	A(A/ B/C Screw)	B(A/B /C Screw)	C	D	E	F
IU1930	8024/8024/8199	1565/1565/11740	2040	2288	7921	8508
IU2700	8561/8561/8734	1769/1769/1942	2373			
IU3700	8837/8837/8997	1953/1953/2113	2465	2182	8221	8808

Platen Dimensions





IU	A	B	C
1930	470	Ø3.5	SR10
2700	461	Ø4	SR15
3700		Ø4	SR15

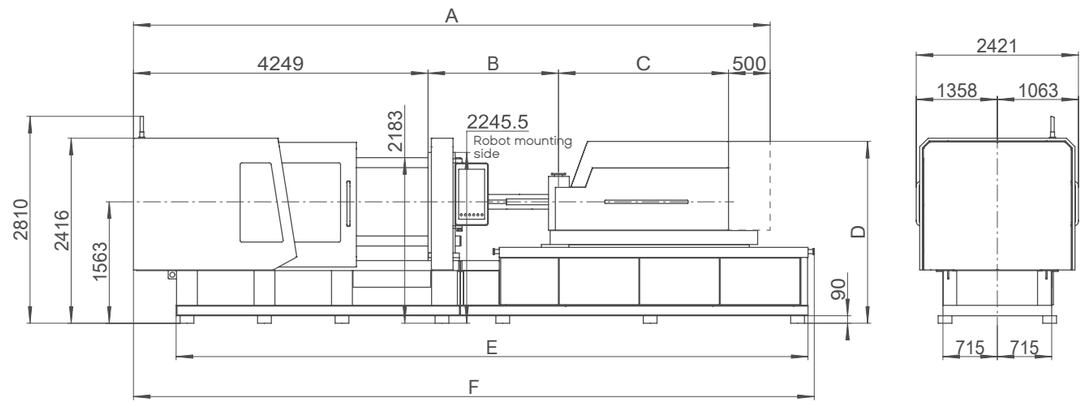


FF550

FF550													
CLAMPING UNIT													
Clamping force	kN	5500											
Mold opening/ closing stroke	mm	900											
Space between tie bars	mm	970×970											
Mold thickness	mm	400-900											
Ejector stroke	mm	200											
Ejector force	kN	155											
Number of ejectors	-	21											
INJECTION UNIT													
Model of injection unit		IU1350			IU1930			IU2700			IU3700		
International specification		1349			1928			2695			3691		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	53	60	68	60	68	76	68	76	84	76	84	92
Screw L/D ratio	-	22.6	20	20	22.6	20	20	22.3	20	20	22.1	20	20
Screw stroke	mm	265			295			330			370		
Stroke-bore ratio	-	5.0	4.4	3.9	4.9	4.3	3.9	4.9	4.3	3.9	4.9	4.4	4.0
Shot volume	cm^3	585	749	962	834	1071	1338	1198	1497	1829	1678	2050	2460
Shot weight (PS)	g	538	689	885	767	986	1231	1103	1377	1682	1544	1886	2263
Injection pressure	MPa	231	180	140	231	180	144	225	180	147	220	180	150
Holding pressure	MPa	185	144	112	185	144	115	180	144	118	176	144	120
Injection speed (Std./Opt.)	mm/s	160			160			160			160		
Injection rate	g/s	325	416	535	416	535	668	535	668	816	668	816	979
Screw speed	rpm	300			250			200			180		
Nozzle contact force	kN	60			60			100			100		
Heating power	kW	16.4		18.8	22.2		24.6	26.3		30.9	33.1		36.1
Total power	kW	88.9			94.6			108.1			138.8		
Total current	A	150.1			159.7			182.5			234.4		
GENERAL													
Dry cycle	s	3.46											
Oil pump motor	kW	35.2											
Max. system pressure	Mpa	17.5											
System flow	L/min	168											
Oil tank capacity	L	190											
Machine weight	kg	25790			25890			26790			27390		

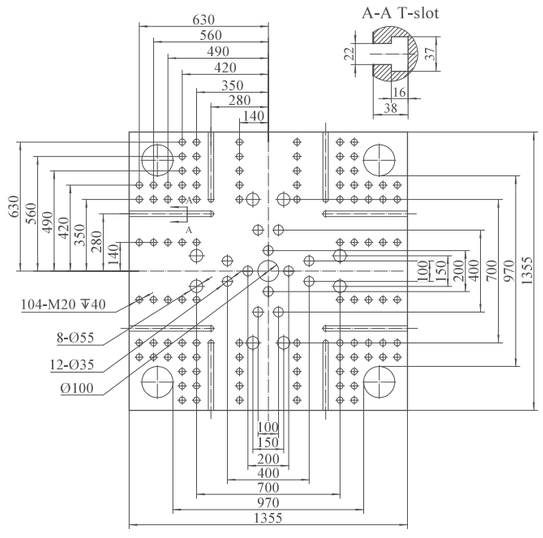
※The data above were acquired by testing in the factory, only for your reference.

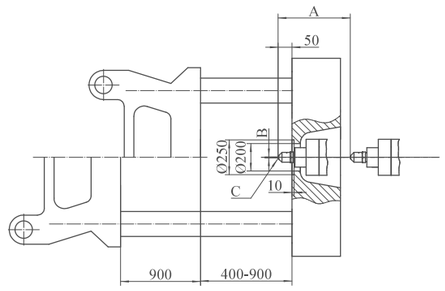
Machine Dimensions



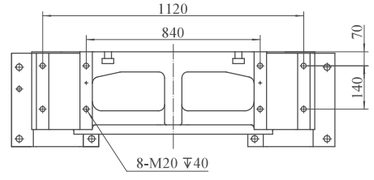
Model	A(A/ B/C Screw)	B(A/B /C Screw)	C	D	E	F
IU1350	8363/8363/8483	1391/1391/1511	2223	2178	8128	8715
IU1930	8354/8354/8529	1565/1565/1740	2040	2288		
IU2700	8891/8891/9064	1769/1769/1942	2373	2341		
IU3700	9167/9167/9327	1953/1953/2113	2465	2364	8758	9345

Platen Dimensions





IU	A	B	C
1350	500	Ø3.5	SR10
1930		Ø3.5	SR10
2700		Ø4	SR15
3700		Ø4	SR15

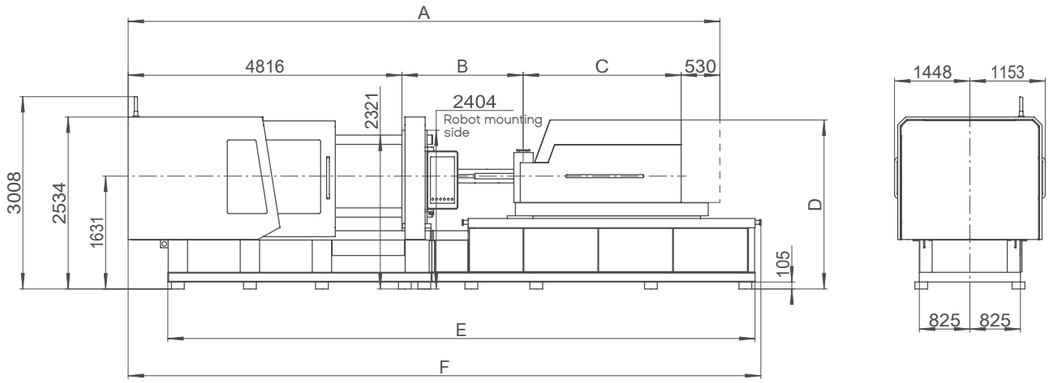


FF650

FF650													
CLAMPING UNIT													
Clamping force	kN	6500											
Mold opening/ closing stroke	mm	1000											
Space between tie bars	mm	1080×1080											
Mold thickness	mm	420-1000											
Ejector stroke	mm	210											
Ejector force	kN	220											
Number of ejectors	-	21											
INJECTION UNIT													
Model of injection unit		IU1930			IU2700			IU3700			IU4800		
International specification		1928			2695			3691			4800		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	60	68	76	68	76	84	76	84	92	84	92	100
Screw L/D ratio	-	22.6	20	20	22.3	20	20	22.1	20	20	21.9	22	21.6
Screw stroke	mm	295			330			370			400		
Stroke-bore ratio	-	4.9	4.3	3.9	4.9	4.3	3.9	4.9	4.4	4.0	4.8	4.3	4.0
Shot volume	cm^3	834	1071	1338	1198	1497	1829	1678	2050	2460	2217	2659	3142
Shot weight (PS)	g	767	986	1231	1103	1377	1682	1544	1886	2263	2039	2446	2890
Injection pressure	MPa	231	180	144	225	180	147	220	180	150	216	180	152
Holding pressure	MPa	185	144	115	180	144	118	176	144	120	173	144	122
Injection speed (Std./Opt.)	mm/s	160			160			160			160		
Injection rate	g/s	416	535	668	535	668	816	668	816	979	816	979	1156
Screw speed	rpm	250			200			180			150		
Nozzle contact force	kN	60			100			100			100		
Heating power	kW	22.2		24.6	26.3		30.9	33.1		36.1	37.5	41.2	45.0
Total power	kW	94.6			108.1			138.8			148.5		
Total current	A	159.7			182.5			234.4			250.7		
GENERAL													
Dry cycle	s	3.58											
Oil pump motor	kW	51.3											
Max. system pressure	Mpa	17.5											
System flow	L/min	263											
Oil tank capacity	L	300											
Machine weight	kg	33420			34320			34620			35420		

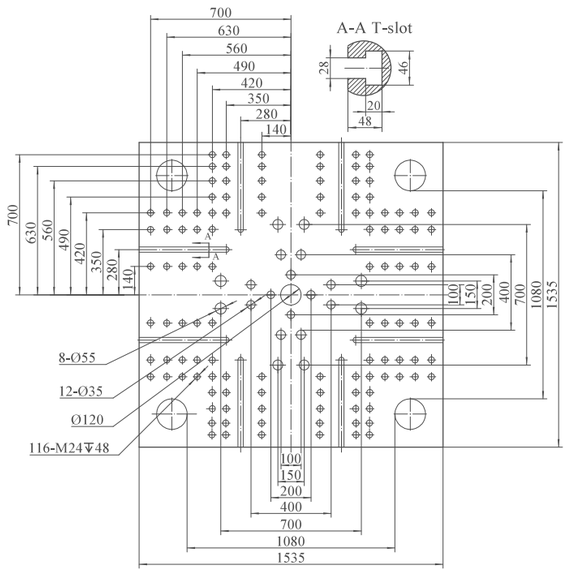
※The data above were acquired by testing in the factory, only for your reference.

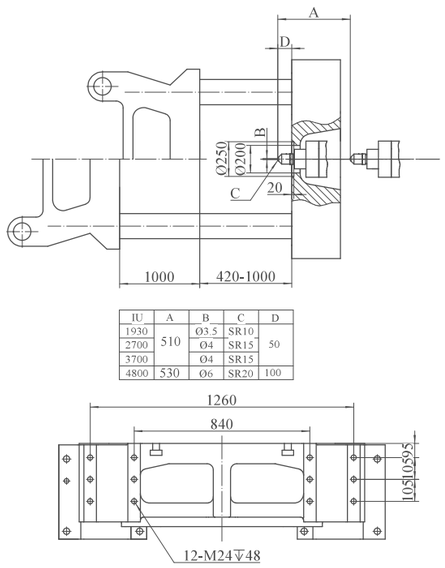
Machine Dimensions



Model	A(A/ B/C Screw)	B(A/B /C Screw)	C	D	E	F
IU1930	8951/8951/9126	1565/1565/1740	2040	2356	8943	9597
IU2700	9488/9488/9661	1769/1769/1942	2373			
IU3700	9764/9764/9924	1953/1953/2113	2465	2432		
IU4800	10219/10414/10569	2149/2344/2499	2724	2485	9473	10127

Platen Dimensions





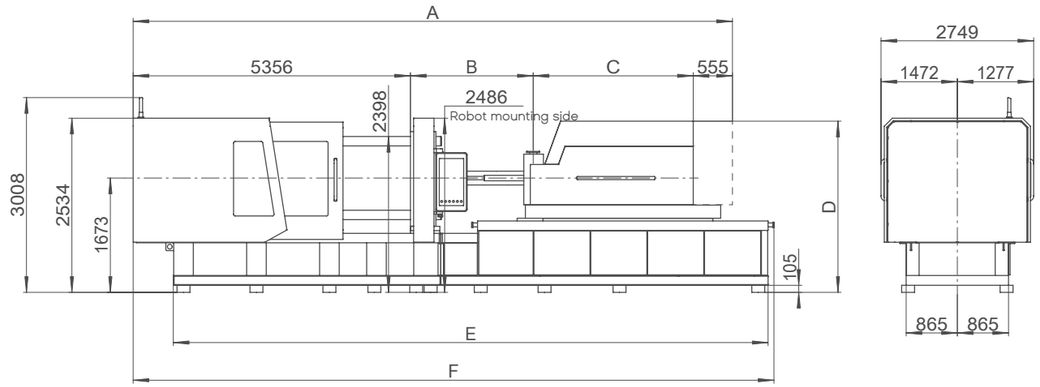
IU	A	B	C	D
1930	510	Ø3.5	SR10	50
2700		Ø4	SR15	
3700		Ø4	SR15	
4800	530	Ø6	SR20	100

FF850

FF850													
CLAMPING UNIT													
Clamping force	kN	8500											
Mold opening/ closing stroke	mm	1200											
Space between tie bars	mm	1120×1120											
Mold thickness	mm	500-1100											
Ejector stroke	mm	210											
Ejector force	kN	230											
Number of ejectors	-	21											
INJECTION UNIT													
Model of injection unit		IU2700			IU3700			IU4800			IU6800		
International specification		2695			3691			4800			6800		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	68	76	84	76	84	92	84	92	100	92	100	108
Screw L/D ratio	-	22.3	20	20	22.1	20	20	21.9	22	21.6	21.7	22	21.5
Screw stroke	mm	330			370			400			480		
Stroke-bore ratio	-	4.9	4.3	3.9	4.9	4.4	4.0	4.8	4.3	4.0	5.2	4.8	4.4
Shot volume	cm^3	1198	1497	1829	1678	2050	2460	2217	2659	3142	3191	3770	4397
Shot weight (PS)	g	1103	1377	1682	1544	1886	2263	2039	2446	2890	2936	3468	4045
Injection pressure	MPa	225	180	147	220	180	150	216	180	152	213	180	154
Holding pressure	MPa	180	144	118	176	144	120	173	144	122	170	144	123
Injection speed (Std./Opt.)	mm/s	160			160			160			160		
Injection rate	g/s	535	668	816	668	816	979	816	979	1156	979	1156	1348
Screw speed	rpm	200			180			150			150		
Nozzle contact force	kN	100			100			100			120		
Heating power	kW	26.3		30.9	33.1		36.1	37.5	41.2	45.0	41.7	47.2	54.1
Total power	kW	108.1			138.8			148.5			160.9		
Total current	A	182.5			234.4			250.7			271.6		
GENERAL													
Dry cycle	s	3.84											
Oil pump motor	kW	51.3											
Max. system pressure	Mpa	17.5											
System flow	L/min	263											
Oil tank capacity	L	300											
Machine weight	kg	40710			41010			41510			43070		

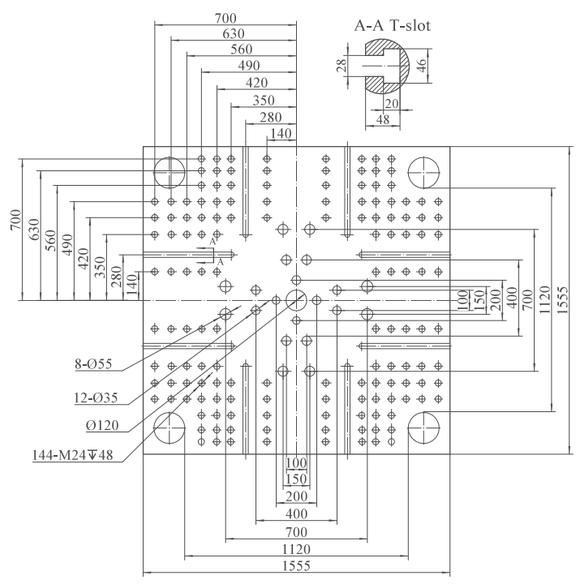
※The data above were acquired by testing in the factory, only for your reference.

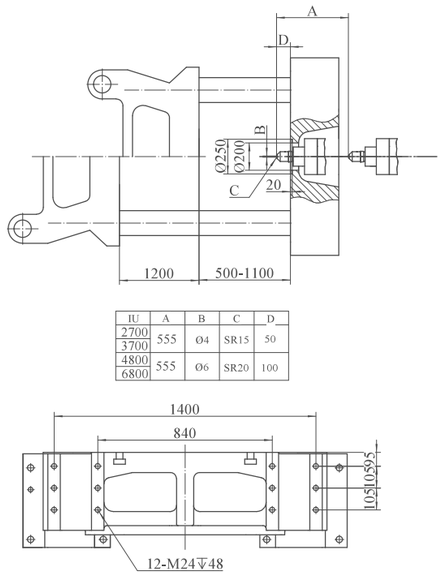
Machine Dimensions



Model	A(A/ B/C Screw)	B(A/B /C Screw)	C	D	E	F
IU2700	10053/10053/10226	1769/1769/1942	2373	2398	10008	10680
IU3700	10329/10329/10489	1953/1953/2113	2465	2474		
IU4800	10784/10979/11134	2149/2344/2499	2724	2527		
IU6800	11267/11487/11617.5	2319/2539/2669.5	3037	2532	10608	11280

Platen Dimensions





IU	A	B	C	D
2700 3700	555	Ø4	SR15	50
4800 6800	555	Ø6	SR20	100