

THINK TECH FORWARD

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YIZUMI

FF

15T-1380T

FF Series Fully Electric
Injection Molding Machine



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[1] YIZUMI reserves the right to modify the product description in the catalogue. Specification might be changed without prior notice.
[2] The picture in the catalogue is for reference only. The real object should be considered as final.
[3] The data in the catalogue is obtained from internal testing in YIZUMI laboratory.
Please refer to the actual machine for the final data. YIZUMI reserves the right of final interpretation upon disputes and ambiguities.



THINK TECH FORWARD

PRODUCT DETAILS

About FF Series

| Development Background

Upgrade of industry and product

While the industrial upgrading in China requires high-quality, high-precision, and high-efficiency equipment, the end users demand products with higher quality, better appearance, and more reliability.

Strong customer base

With the in-depth understanding of customer pain points and demand which based on tens of thousands of customers over time, we have set up a professional team to develop more cost-effective electric injection molding machines.

Times call for domestically manufactured alternatives

While the Japanese products dominate the market at present, customers desire to have domestically manufactured alternatives to the imports for a more prompt comprehensive support and the best value for money.

Automation and intellectualization are the trends

The growing demands for industrial automation and intellectualization ask for better products to increase customer value. YIZUMI responds to this need with the new generation FF series electric injection molding machines.

| Core Value Proposition

YIZUMI is committed to developing a product that meets the technology and quality standards of Japanese electric injection molding machines, provides more cost-effective experiences, and better fulfills customers' expectations of return on investment.

Upgrade from conventional models

Upgrading to a level that has higher requirements than conventional machines and allows customers to easily realize the automation and intellectualization while improving quality consistency and efficiency.

Upgrade to meet application requirements

Compared to conventional models, the new electric series of injection molding machines enhances the performance in all aspects to meet the optimized requirements (e.g. Thickness, precision, and complexity) of more stringent core elements of products.

| Critical Success Factors

Warranted by the overall strength of YIZUMI

YIZUMI has the powerful capacity in HW/SW development, competent R&D teams, and rigorous quality control system.

In-depth industrial know-how and collaboration

With years of accumulated knowledge in machine designs, YIZUMI is committed to creating the electric injection molding machines that meet our customer's product needs through collaboration with international top-level expert teams.

Advanced integrated project development (IPD) process assurance

The rigorous and comprehensive IPD process established based on the in-depth understanding of customer needs and pain points ensures a high degree of customer satisfaction.

FF Series Electric Injection Molding Machine

Three Major Customer Value Propositions:

-  Stability & Precision
-  Efficiency & Energy Saving
-  Automation & Intellectualization

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Performance improvement in all aspects in comparison with conventional models to meet the optimized requirements (e.g. Thickness, precision, and complexity) of more stringent core elements of products.

<0.3% Repeatability of clamping force <0.3%

<0.05 Platen parallelism (with load) <0.05mm

±0.03 Repeatability of mold opening/closing positions ±0.03mm



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

Three Major Customer Value Propositions



Stability & Precision:

High stability of the Tie-Bar Free (TBF) technology

Contact-free tie bars allow fast and stable mold opening/closing and significantly reduce energy consumption, causing no pollution to the work environment

Highly stable three linear guider support (TLGS) technology

High precision linear guide supports significantly reduce the friction of the plasticizing unit and improves the pressure stability of plasticizing and injection, resulting in stable product quality. In the meantime, the linear guide effectively reduces energy consumption and enhances the smoothness of mold opening/closing

High-precision sensor technology

The use of the world's leading position sensors with 2 million CPR resolution delivers incredible stability in position and speed control

Fully automatic lubrication system

While the lubricating grease works as the blood of injection molding machine, the fully automatic maintenance-free lubrication system ensures the long-term operation stability of the machine



Efficiency & Energy saving:

Double the injection speed

Compared with conventional machines, doubling the injection speed does more than shortening the injection time. It brings more possibilities to product design and allows customers to enjoy greater flexibility in terms of wall thickness, sprue size and precision of the molded parts

Multi-axis synchronization

As the mold opening/closing, injection, plasticizing, and ejection are driven by separate motors, the easy synchronization of processes reduces the cycle time of the production

Increase mold opening and closing speed by 50%

Dry cycle has a great importance to customers as the faster dry cycle results in higher productivity

Plasticizing speed is significantly increased

The increase in plasticizing speed reduces the cycle time while delivering enhanced production stability

Energy-saving

Servo motors and high-efficiency transmission ensure good energy utilization of the equipment.

Compared with ordinary injection molding machines, it can save energy by 30-50% (varies according to working conditions);

Highly stable clamping unit

Fast and steady mold opening/closing speed. Repeatability of mold opening/closing positions $\pm 0.03\text{mm}$

Highly rigid design of movable platen

Provide good rigidity and uniform force distribution with platen parallelism $\leq 0.03\text{mm}$, suitable for injection molding with precision molds

European KEB A2000 controller

The powerful system is easy to operate and ideal for the high-performance solutions for electric injection molding machines

Excellent injection stability

More accurate control for more stable and reliable molding precision. The stability precision of injection pressure and holding pressure is at $\pm 0.1\text{Mpa}$



Automation & Intellectualization:

▶ Optimized automation interface for centralized control of integrated robot, hot runner, and auxiliary

▶ SMART mold protection to ensure the safe use of high-value molds in an unmanned operating environment

▶ The high stability and consistency of the machine process parameters allow unattended operation for an extended time

▶ Full data monitoring and extraction provide a solid foundation for intellectualization

▶ With accurate mold opening and full-featured second mold closing and opening, the automation of special process is fully warranted

▶ The intelligent sorting system automatically removes defect parts to ensure the production quality

▶ Combined with MES, the intelligent Statistics Process Control (SPC) helps to achieve automation and informationization

▶ Smart Clamping Force Management (SCFM) system

▶ Smart Injection Control (SIC)

▶ Integrated factory management system with Yi CMS + Yi MES



Clamping Unit

- ▶ High stability of the TBF technology
- ▶ Linear rail moving design for mold opening /closing
- ▶ High-rigidity design of movable platen
- ▶ Unique "SMART" mold protection feature



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 $\pm 0.03\text{mm}$

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) $\leq 0.05\text{mm}$ (FF60-240)
- ▶ Platen parallelism (with load) $\leq 0.08\text{mm}$ (FF300-380)
- ▶ Faster dry cycle



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



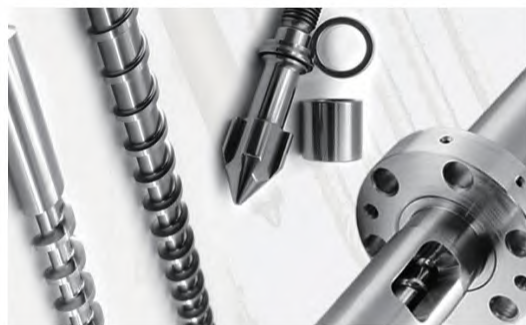
Injection Unit



Close-up

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



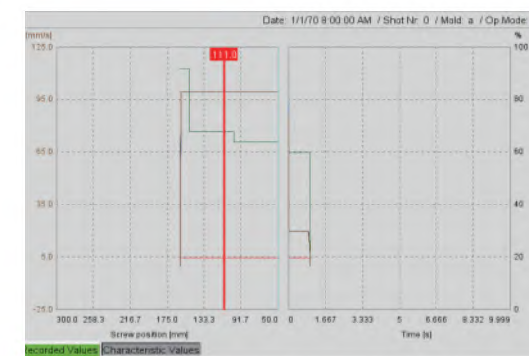
Dedicated screws for different materials

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



- Static deviation: $\pm 0.5^\circ$

Temperature closed loop control



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

FF

Electrical Control System

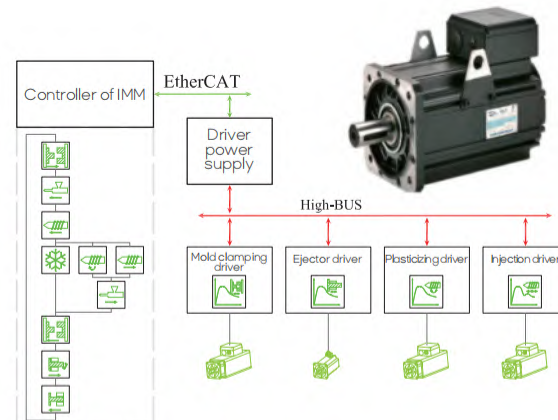
Using European KEBA2000 Controller

- ▶ 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
- ▶ Each clamping mode has the option to select different injection units and 9 types of barrel units
- ▶ 17 injection unit configurations, screws range $\Phi 14 \sim \Phi 116\text{mm}$
- ▶ 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



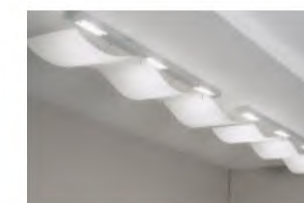
3C products



Automotive parts

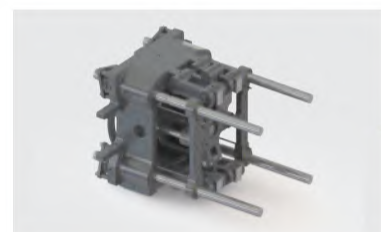


Medical consumables



Home appliances

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.

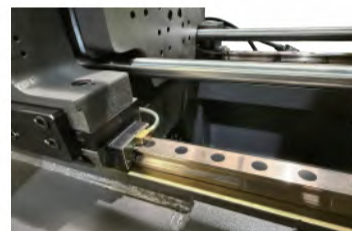


Separate platen supports

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 $\leq 0.01\text{mm}$ (for specific stroke)



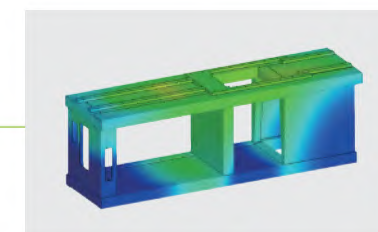
Optimized platen rigidity

Minimized platen deformation fully ensures balanced force distribution at the center of precision mold, guaranteeing product consistency. Platen parallelism $\leq 0.02\text{mm}$.



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.

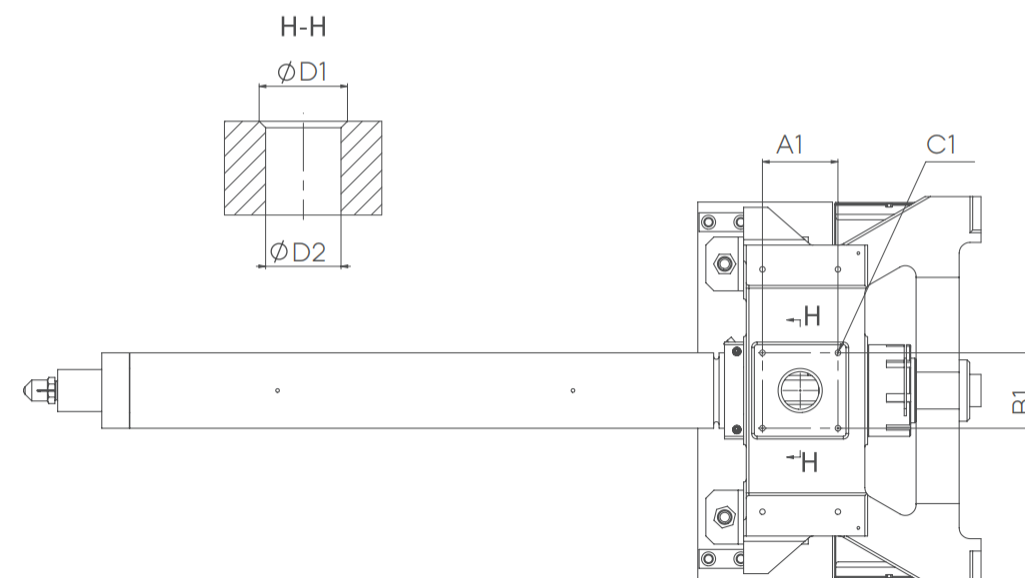
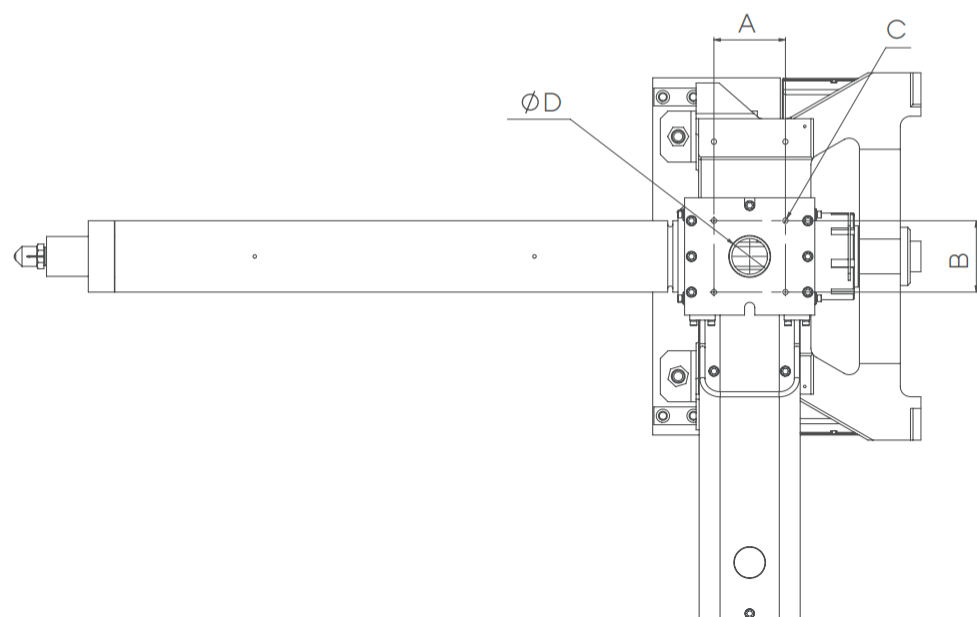


Effective dust-proof electrical cabinet

- ▶ 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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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	●	60±0.2	60±0.2	4-M6	30	50±0.2	60±0.2	4-M8	40	30
IU53	●	60±0.2	60±0.2	4-M6	30	50±0.2	60±0.2	4-M8	40	30
IU170	●	95±0.2	95±0.2	4-M8	60	80±0.2	80±0.2	4-M8	60	50
IU200	●	95±0.2	95±0.2	4-M8	60	80±0.2	80±0.2	4-M8	60	50
IU320	●	95±0.2	95±0.2	4-M8	60	80±0.2	80±0.2	4-M8	60	50
IU430	●	95±0.2	95±0.2	4-M8	60	80±0.2	80±0.2	4-M8	62	52
IU670	●	95±0.2	95±0.2	4-M8	60	95±0.2	95±0.2	4-M8	70	60
IU930	●	95±0.2	95±0.2	4-M8	60	95±0.2	95±0.2	4-M8	70	60
IU1350	●	140±0.2	140±0.2	4-M12	80	140±0.2	140±0.2	4-M12	82	70
IU1930	●	140±0.2	140±0.2	4-M12	80	140±0.2	140±0.2	4-M12	90	80
IU2700	●	140±0.2	140±0.2	4-M12	80	140±0.2	140±0.2	4-M12	100	90
IU3700	●	140±0.2	140±0.2	4-M12	80	140±0.2	140±0.2	4-M12	112	100
IU4800	●	160±0.2	160±0.2	4-M16	90	160±0.2	160±0.2	4-M16	120	110
IU6800	●	160±0.2	160±0.2	4-M16	90	160±0.2	160±0.2	4-M16	126	116
IU9000	●	160±0.2	160±0.2	4-M16	90	160±0.2	160±0.2	4-M16	126	116

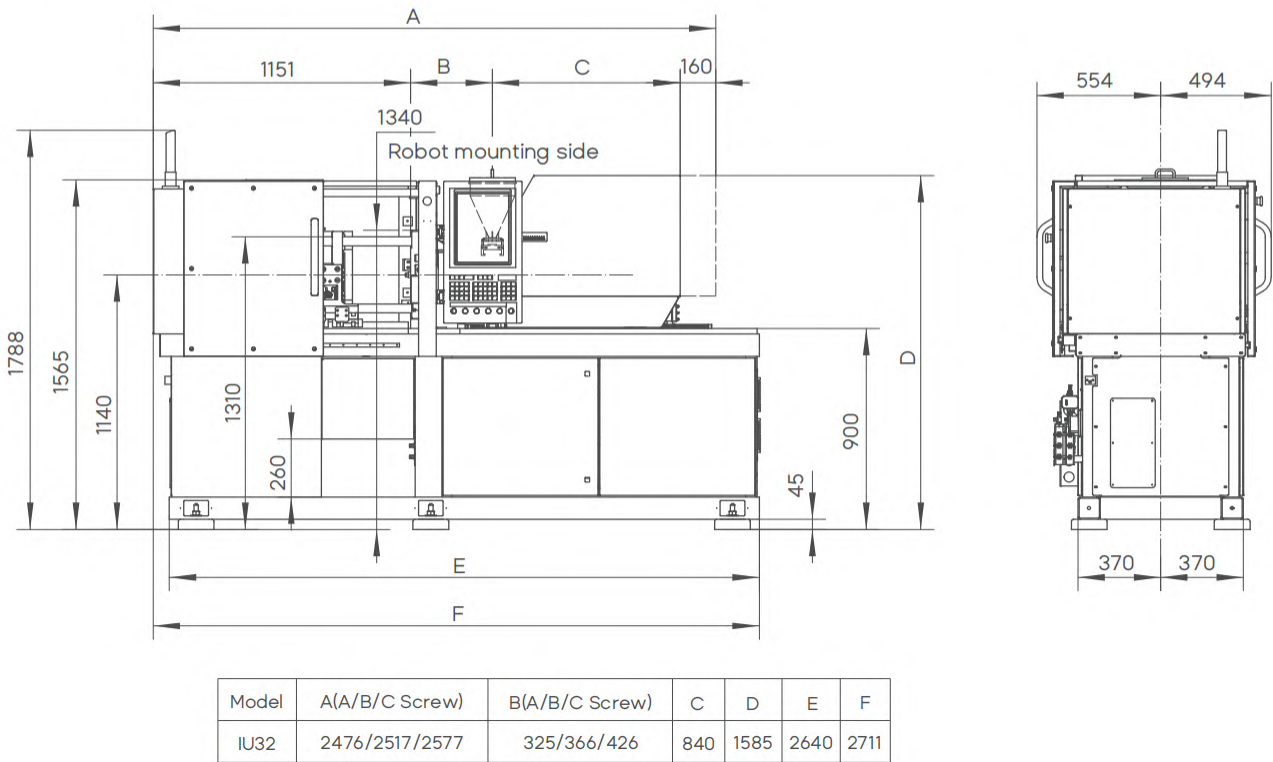
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FF15

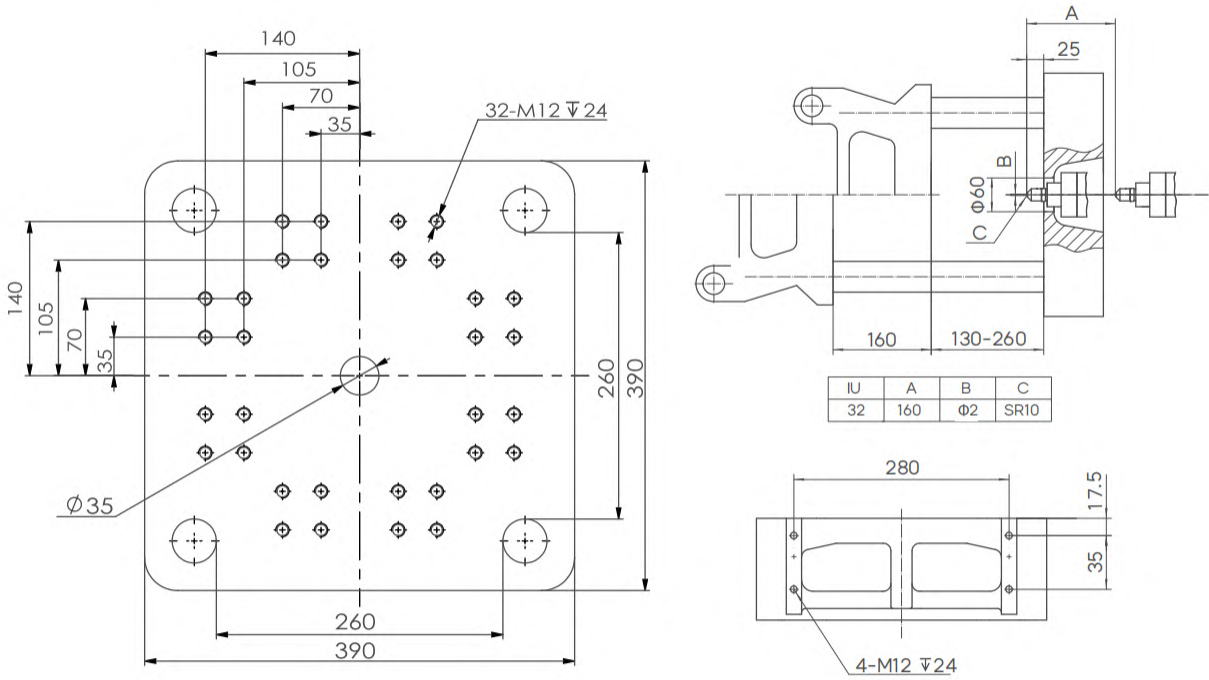
FF15				
CLAMPING UNIT				
Clamping force	kN	150		
Mold opening/closing stroke	mm	160		
Space between tie bars	mm	260×260		
Mold thickness	mm	130-260		
Ejector stroke	mm	50		
Ejector force	kN	7		
Number of ejectors	-	1		
INJECTION UNIT				
Model of injection unit		IU32		
International specification		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	cm³	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



Platen Dimensions

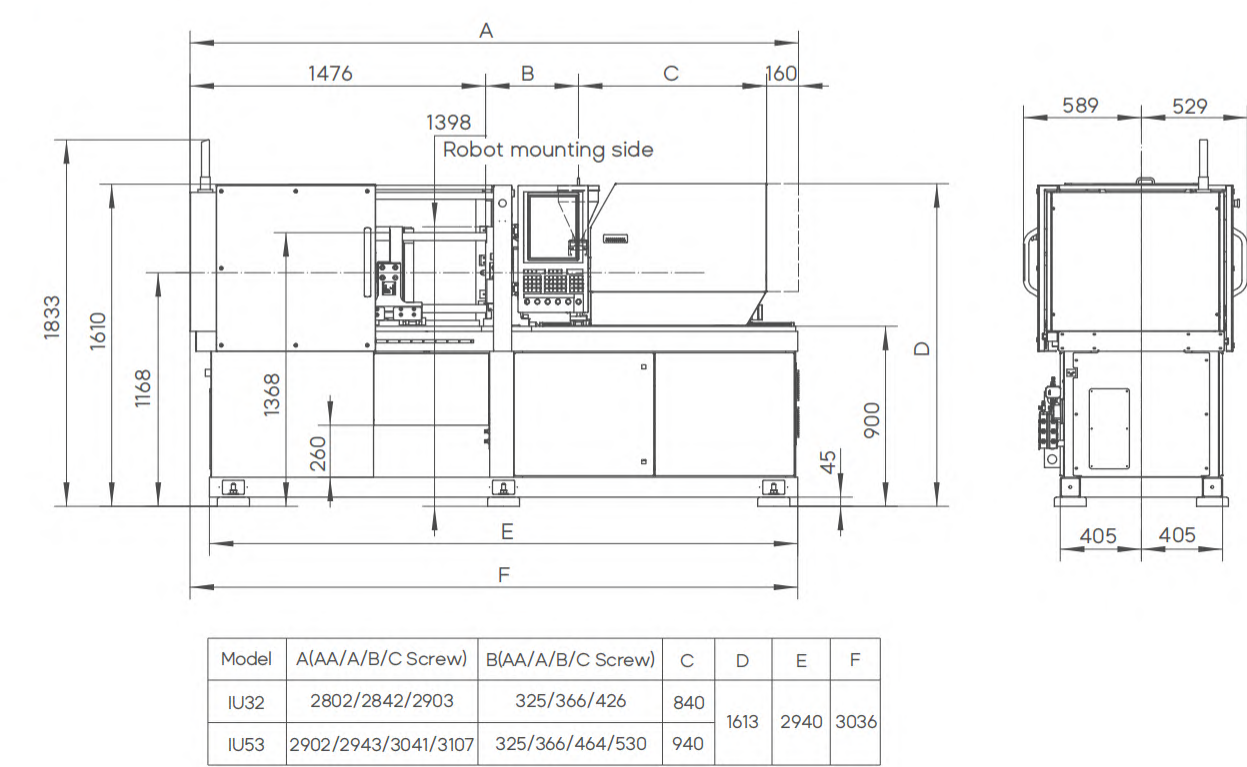


FF30

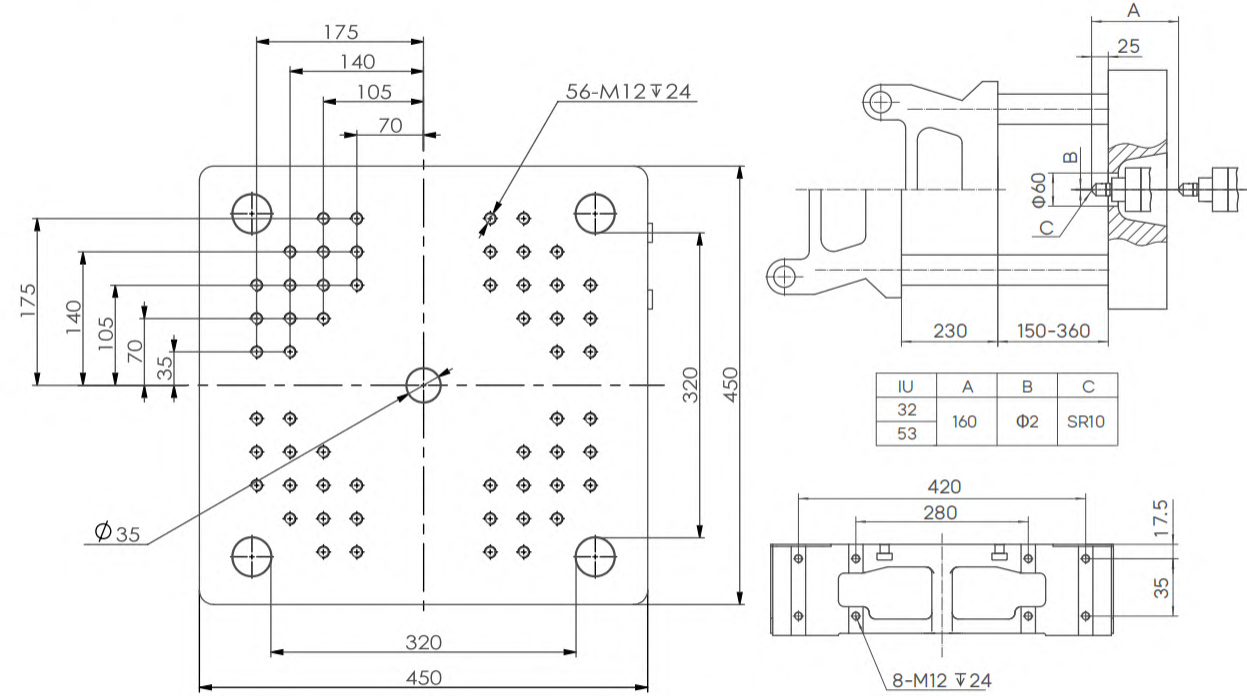
FF30								
CLAMPING UNIT								
Clamping force	kN	300						
Mold opening/closing stroke	mm	230						
Space between tie bars	mm	320×320						
Mold thickness	mm	150-360						
Ejector stroke	mm	60						
Ejector force	kN	10						
Number of ejectors	-	1						
INJECTION UNIT								
Model of injection unit		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	cm³	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						

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Machine Dimensions



Platen Dimensions

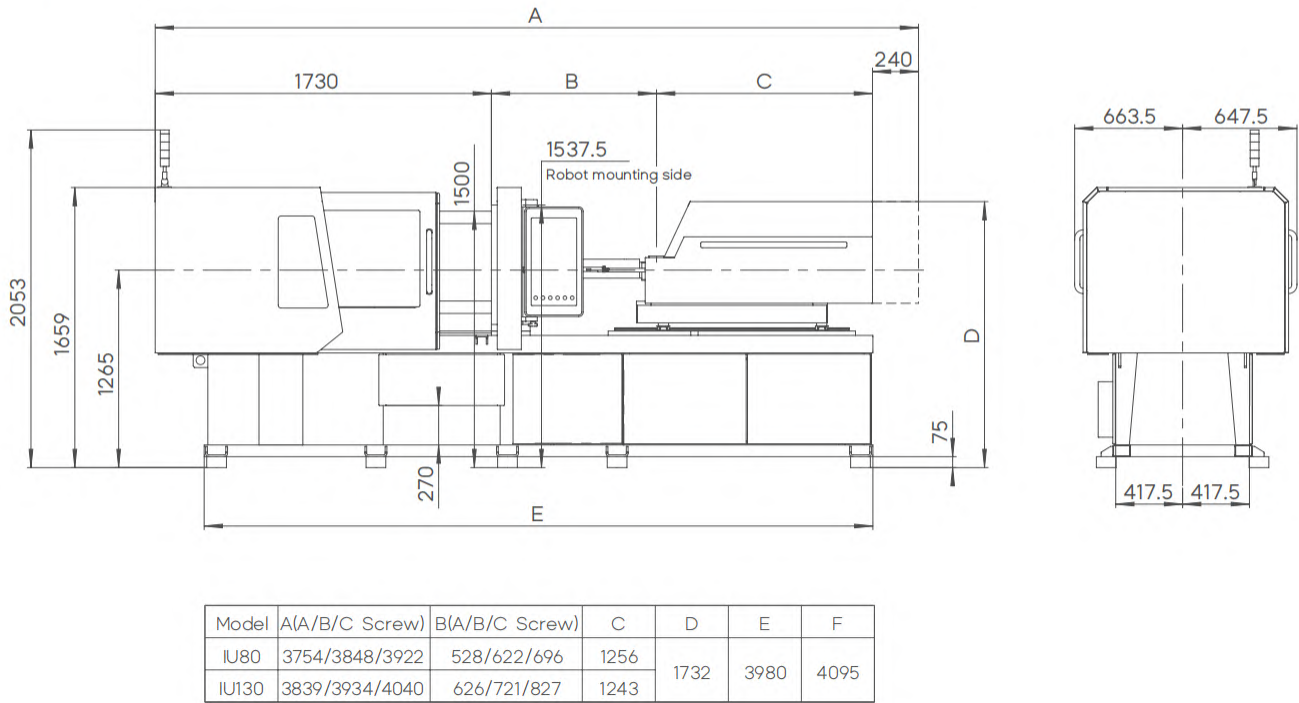


FF60

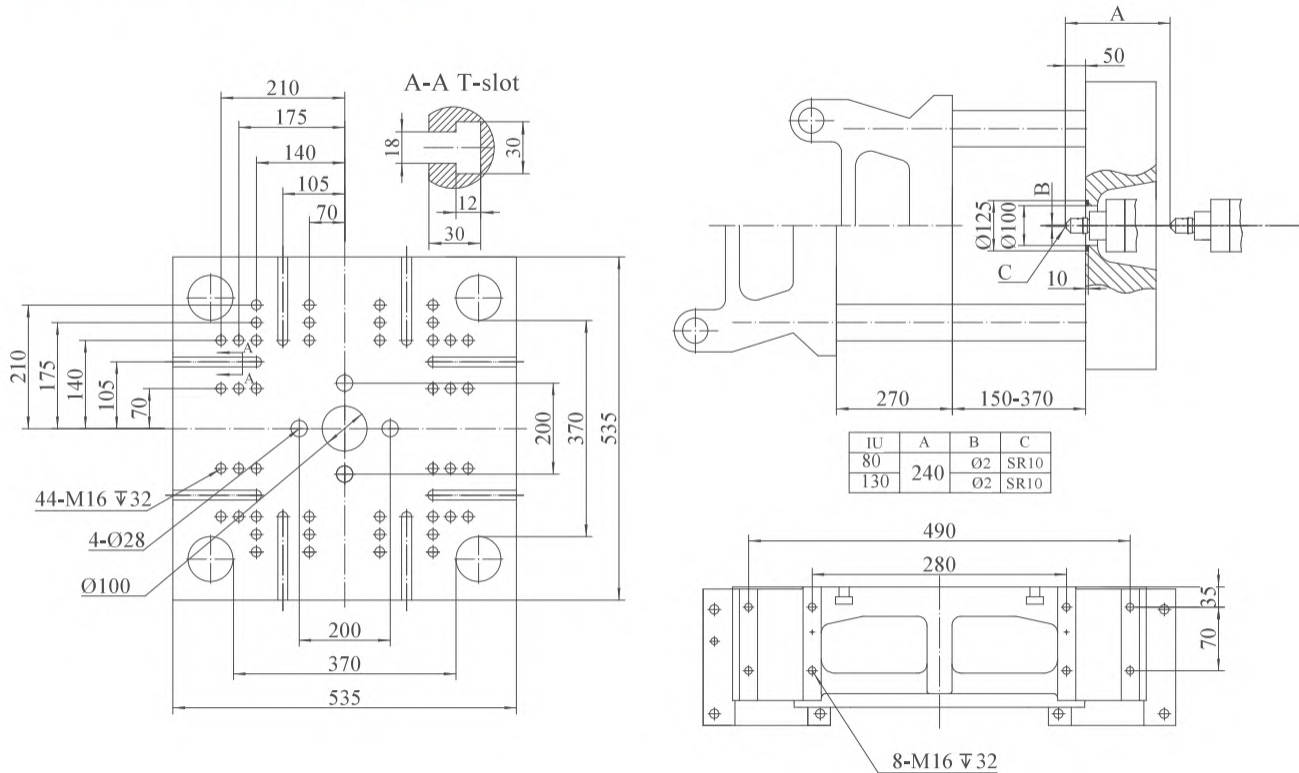
FF60							
CLAMPING UNIT							
Clamping force	kN	600					
Mold opening/ closing stroke	mm	270					
Space between tie bars	mm	370×370					
Mold thickness	mm	150-370					
Ejector stroke	mm	80					
Ejector force	kN	19.6					
Number of ejectors	-	5					
INJECTION UNIT							
Model of injection unit		IU80 / 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	cm³	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					
Machine weight	kg	-					

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Machine Dimensions



Platen Dimensions

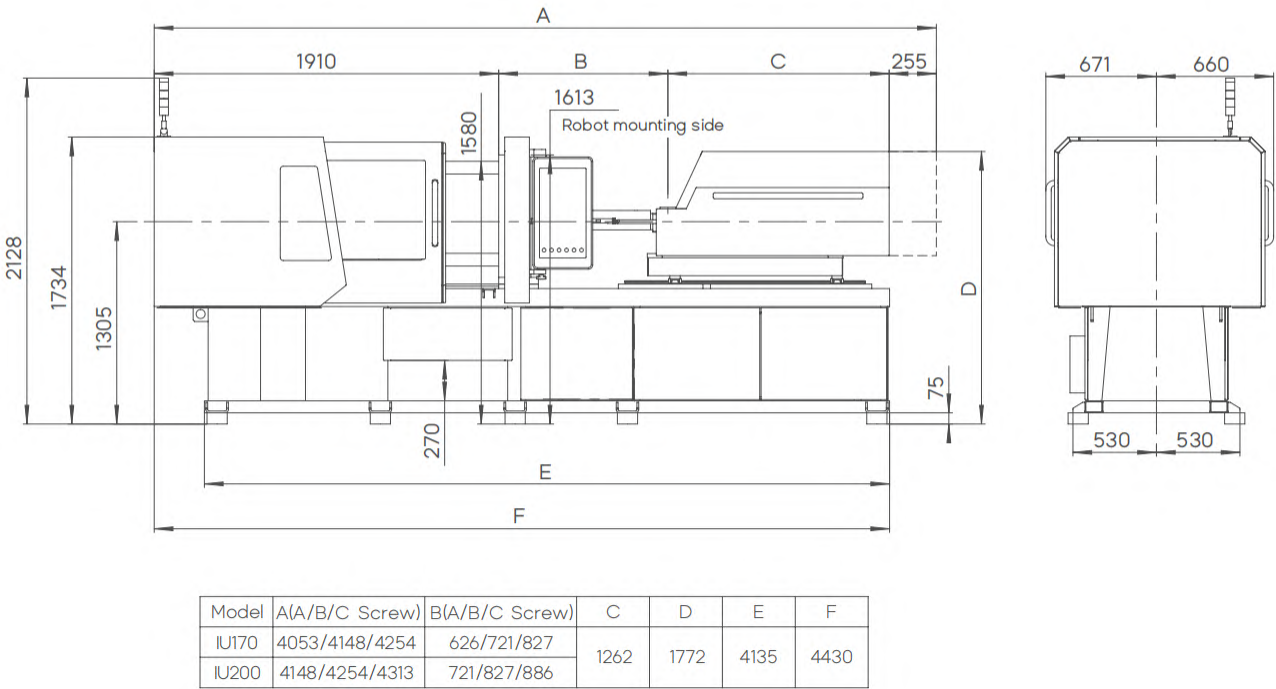


FF90

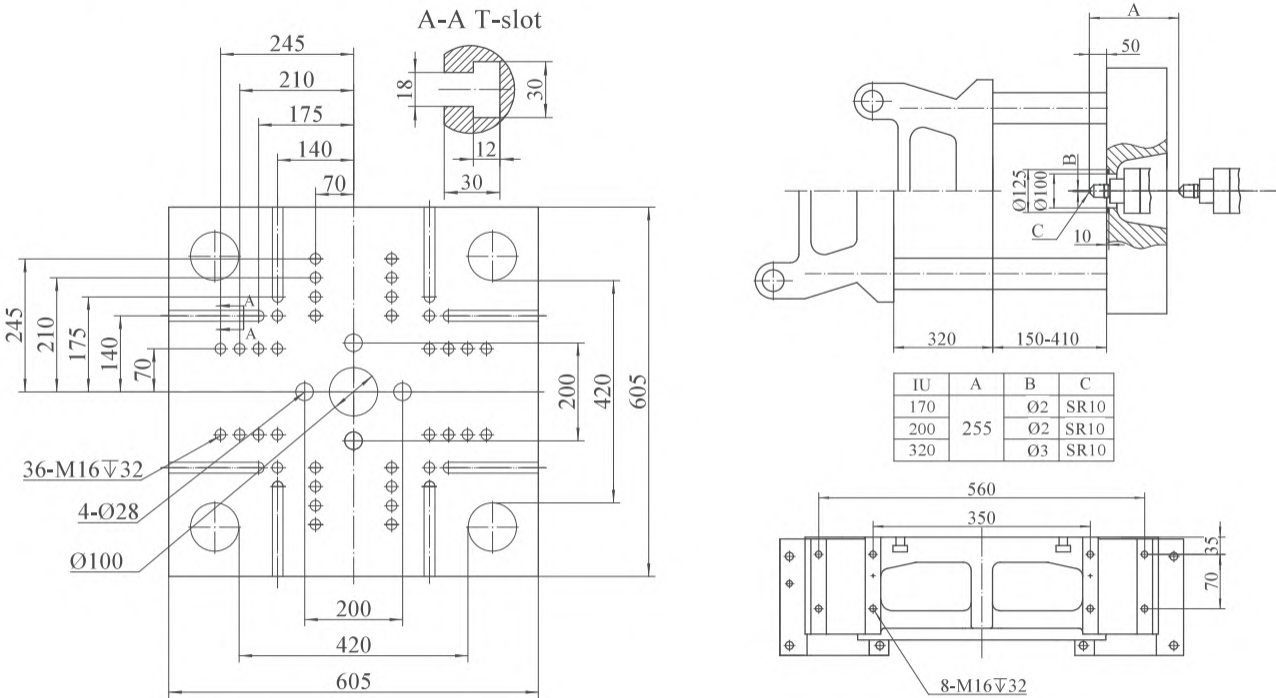
FF90							
CLAMPING UNIT							
Clamping force	kN	900					
Mold opening/ closing stroke	mm	320					
Space between tie bars	mm	420×420					
Mold thickness	mm	150-410					
Ejector stroke	mm	80					
Ejector force	kN	22.6					
Number of ejectors	-	5					
INJECTION UNIT							
Model of injection unit		IU170 / IU170h			IU200 / IU200h		
International specification		165			198		
		A	B	C	A	B	C
Screw diameter	mm	22	26	30	26	30	35
Screw L/D ratio	-	22	22	22	22	22	20
Screw stroke	mm	115			140		
Stroke-bore ratio	-	5.23	4.42	3.83	5.4	4.7	4.0
Shot volume	cm³	44	61	81	74	99	135
Shot weight (PS)	g	40	56	75	68	91	124
Injection pressure	MPa	377	270	203	266	200	147
Holding pressure	MPa	302	216	162	213	160	118
Injection speed (Std./Opt.)	mm/s	200/350			200/350		
Injection rate	g/s	70	98	130	98	130	177
Screw speed	rpm	400			400		
Nozzle contact force	kN	20			20		
Heating power	kW	5.1	6.1	7.1	6.1	7.1	8.1
Total power	kW	28.4/44.4			29.8/47		
Total current	A	47.9/74.9			50.3/79.3		
GENERAL							
Dry cycle	s	1.44					
Machine weight	kg	4030			4040		

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Machine Dimensions



Platen Dimensions

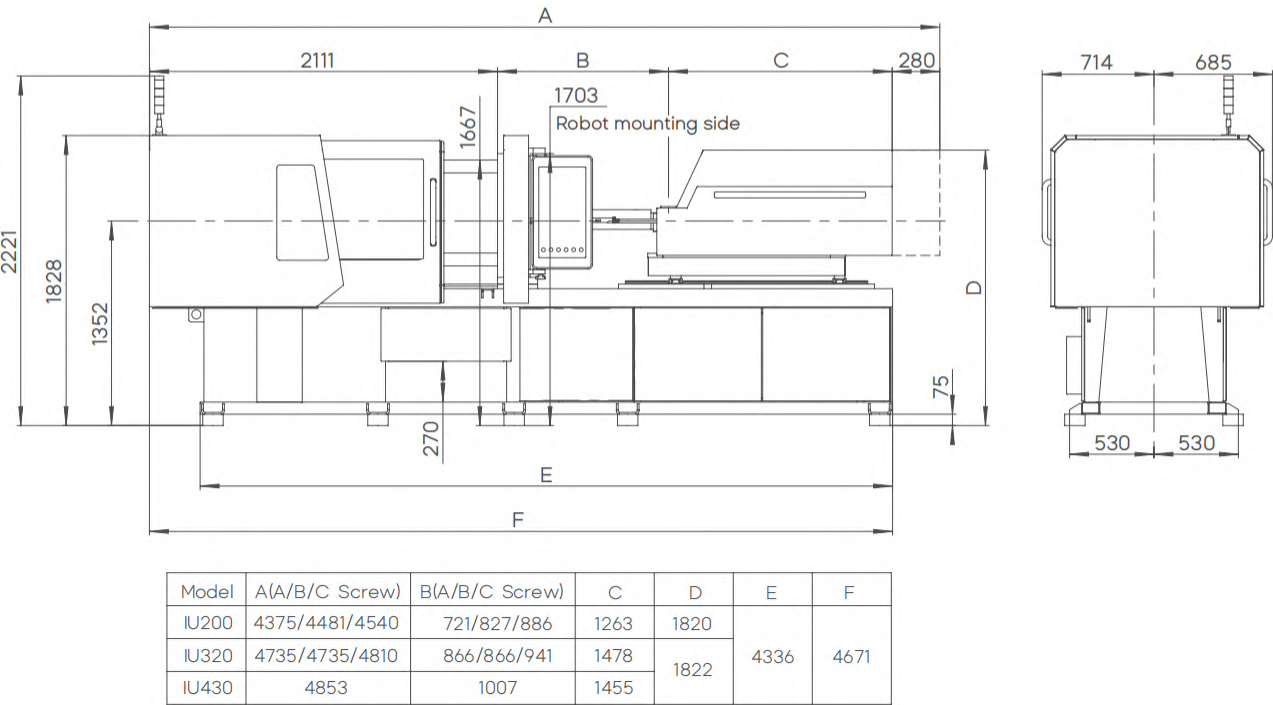


FF120

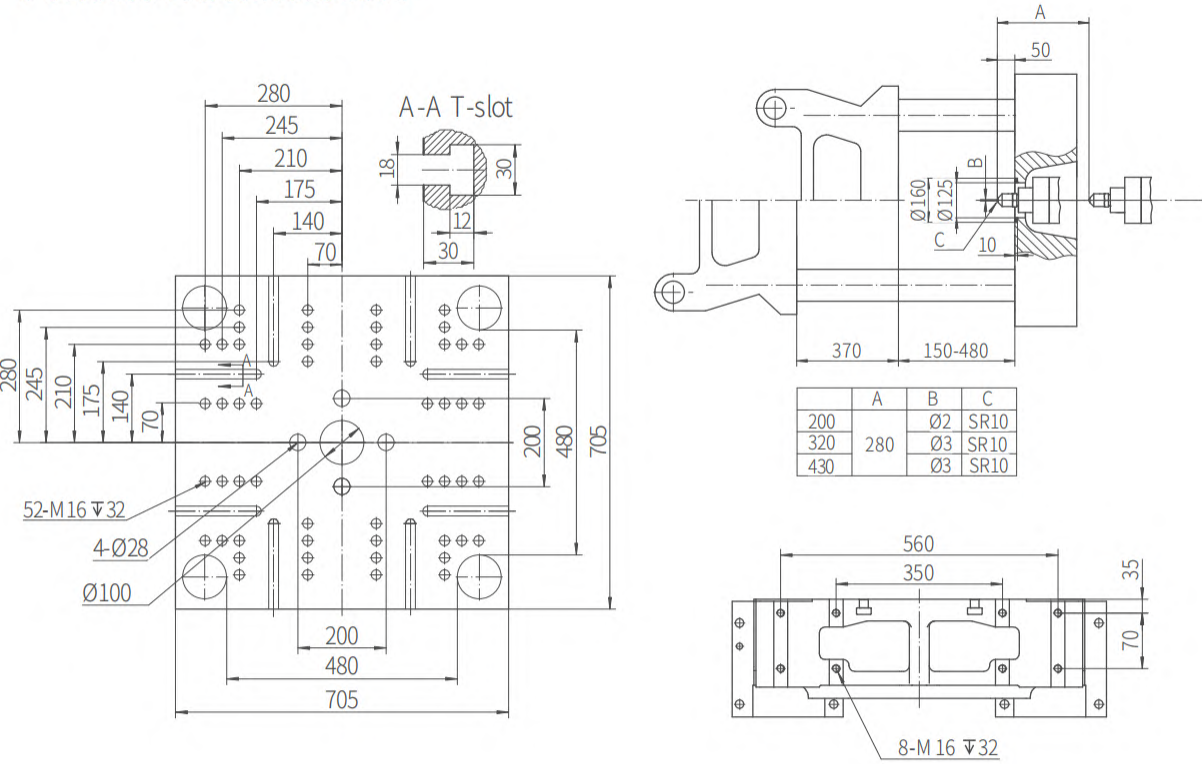
FF120										
CLAMPING UNIT										
Clamping force	kN	1200								
Mold opening/ closing stroke	mm	370								
Space between tie bars	mm	480×480								
Mold thickness	mm	150-480								
Ejector stroke	mm	100								
Ejector force	kN	40								
Number of ejectors	-	5								
INJECTION UNIT										
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	cm³	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		
Plasticizing rate	g/s	/			16.6	23.8	31.9	21.9	32.9	38.9
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		50.3/79.3			68.2/83.2			86.2/110.2		
GENERAL										
Dry cycle	s	1.66								
Machine weight	kg	4800			4940			5400		

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

Machine Dimensions



Platen Dimensions

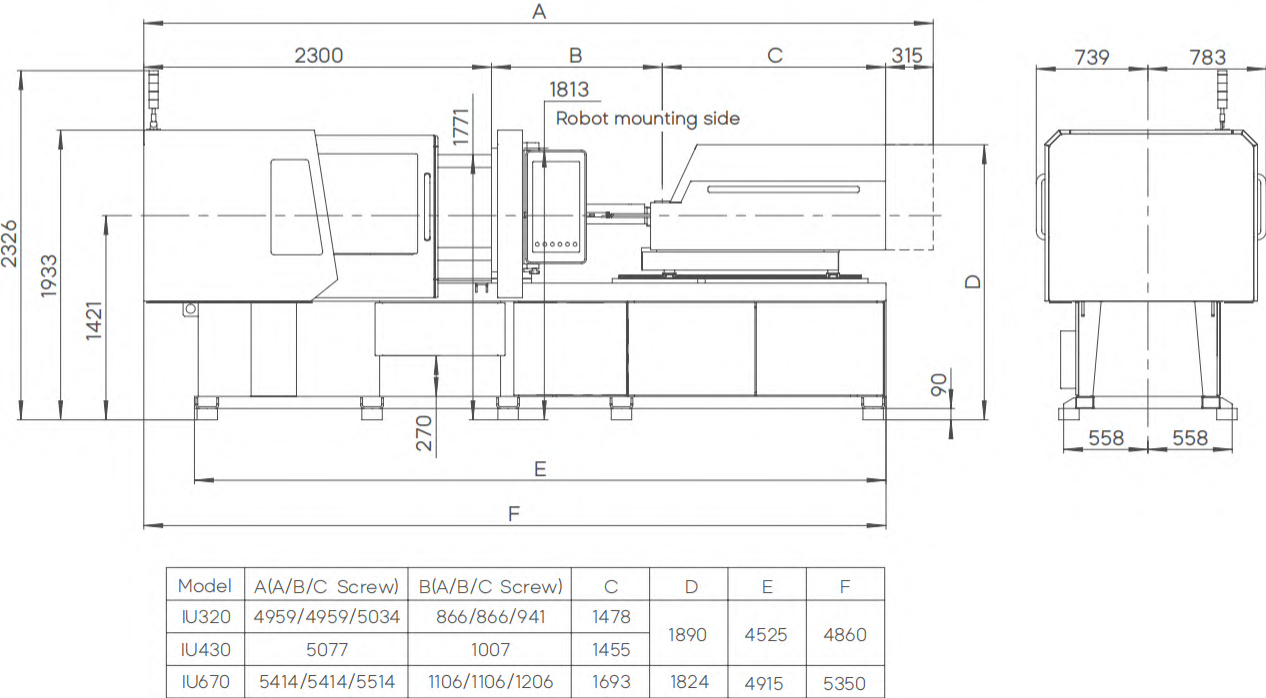


FF160

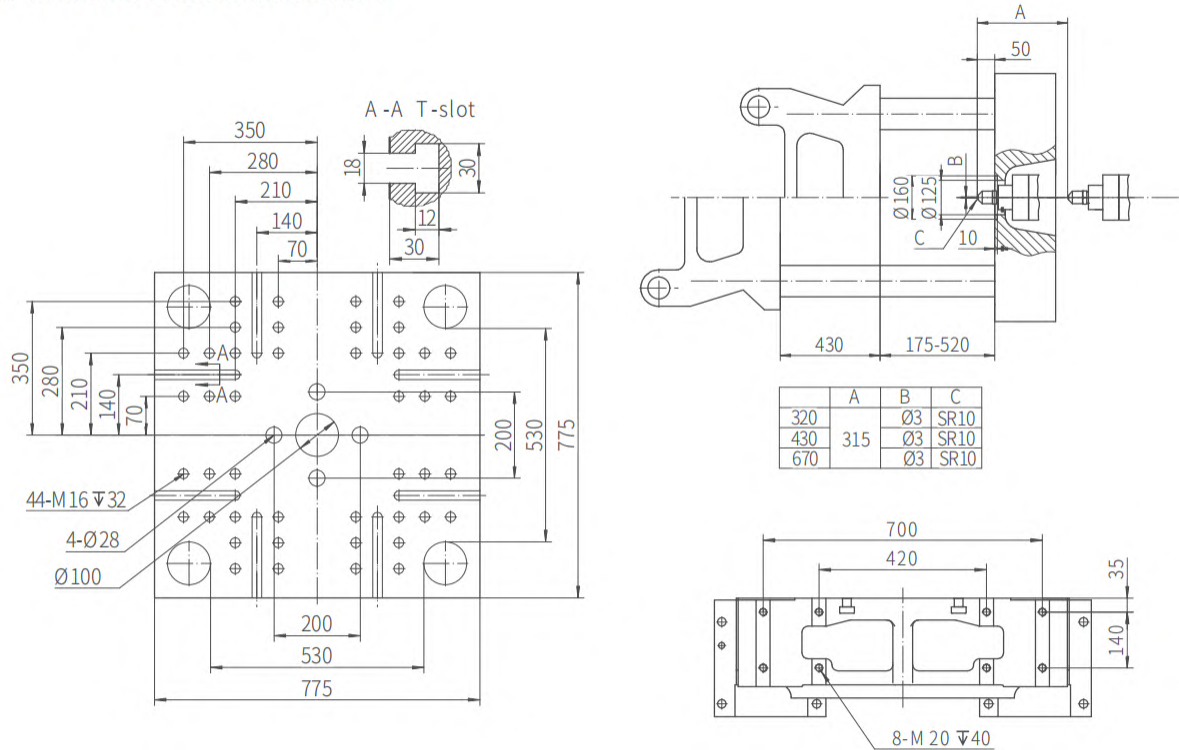
FF160										
CLAMPING UNIT										
Clamping force	kN	1600								
Mold opening/ closing stroke	mm	430								
Space between tie bars	mm	530×530								
Mold thickness	mm	175-520								
Ejector stroke	mm	125								
Ejector force	kN	40								
Number of ejectors	-	5								
INJECTION UNIT										
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	cm³	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		
Plasticizing rate	g/s	16.6	23.8	31.9	21.9	32.9	38.9	30.9	38.2	46.5
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								
Machine weight	kg	5850			6300			6380		

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

Machine Dimensions



Platen Dimensions

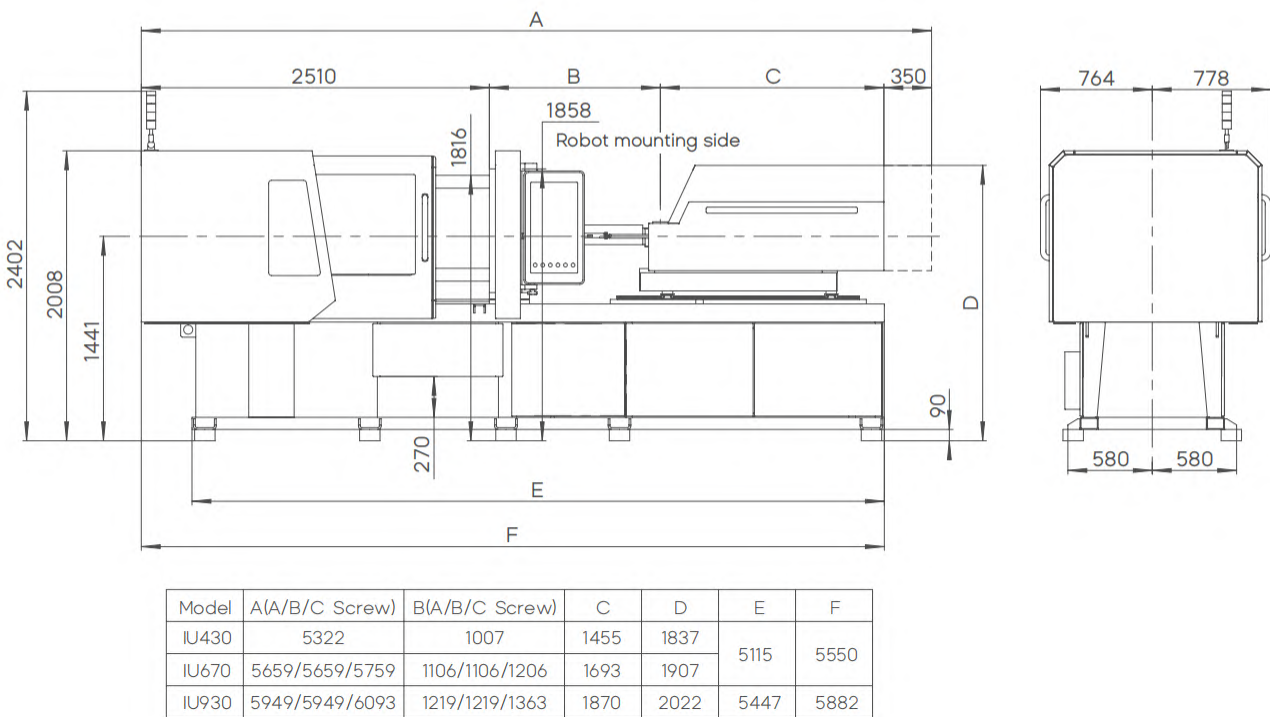


FF200

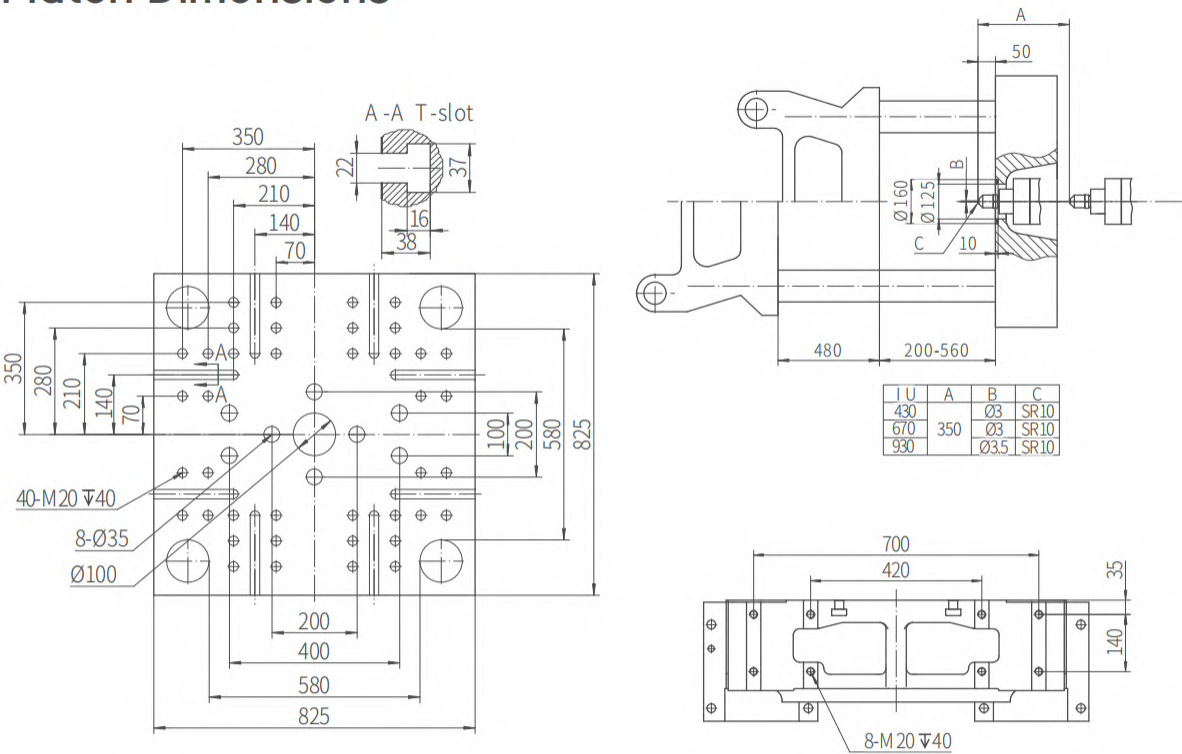
FF200										
CLAMPING UNIT										
Clamping force	kN	2000								
Mold opening/ closing stroke	mm	480								
Space between tie bars	mm	580×580								
Mold thickness	mm	200-560								
Ejector stroke	mm	125								
Ejector force	kN	40								
Number of ejectors	-	9								
INJECTION UNIT										
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	cm³	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		
Plasticizing rate	g/s	21.9	32.9	38.9	30.9	38.2	46.5	34.3	44.8	63.0
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								
Machine weight	kg	6730			6810			7450		

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

Machine Dimensions



Platen Dimensions

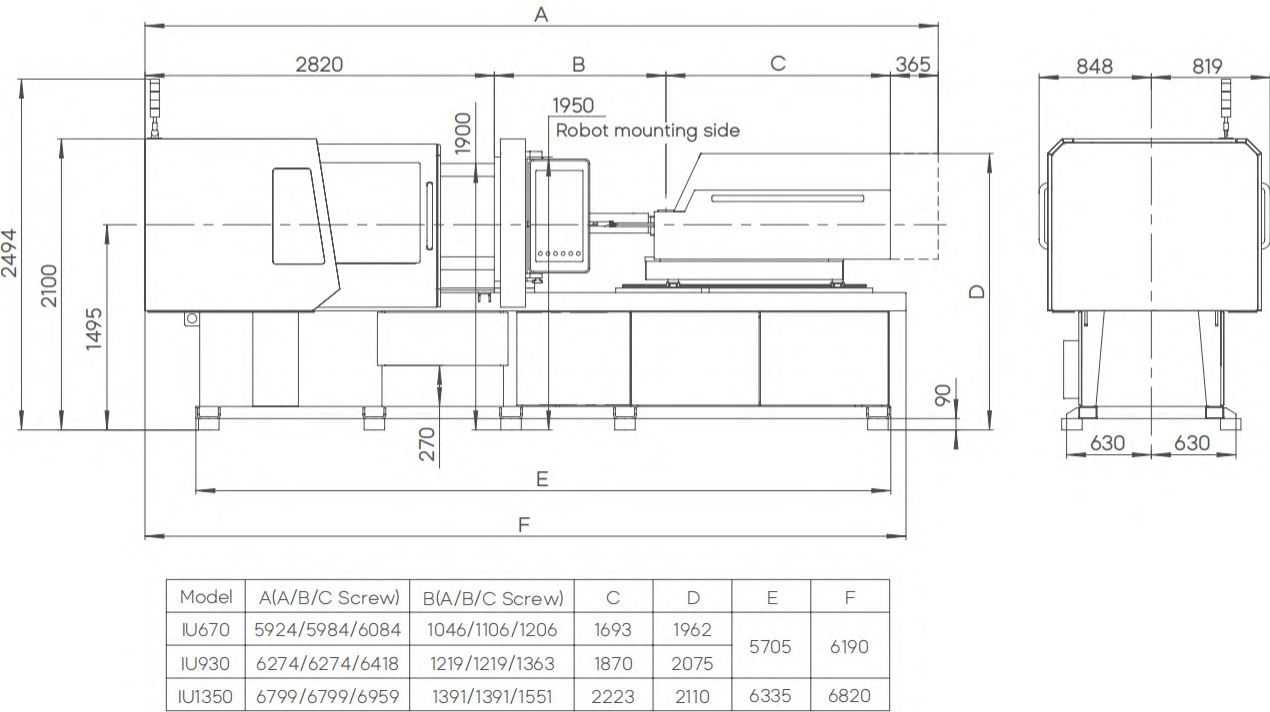


FF240

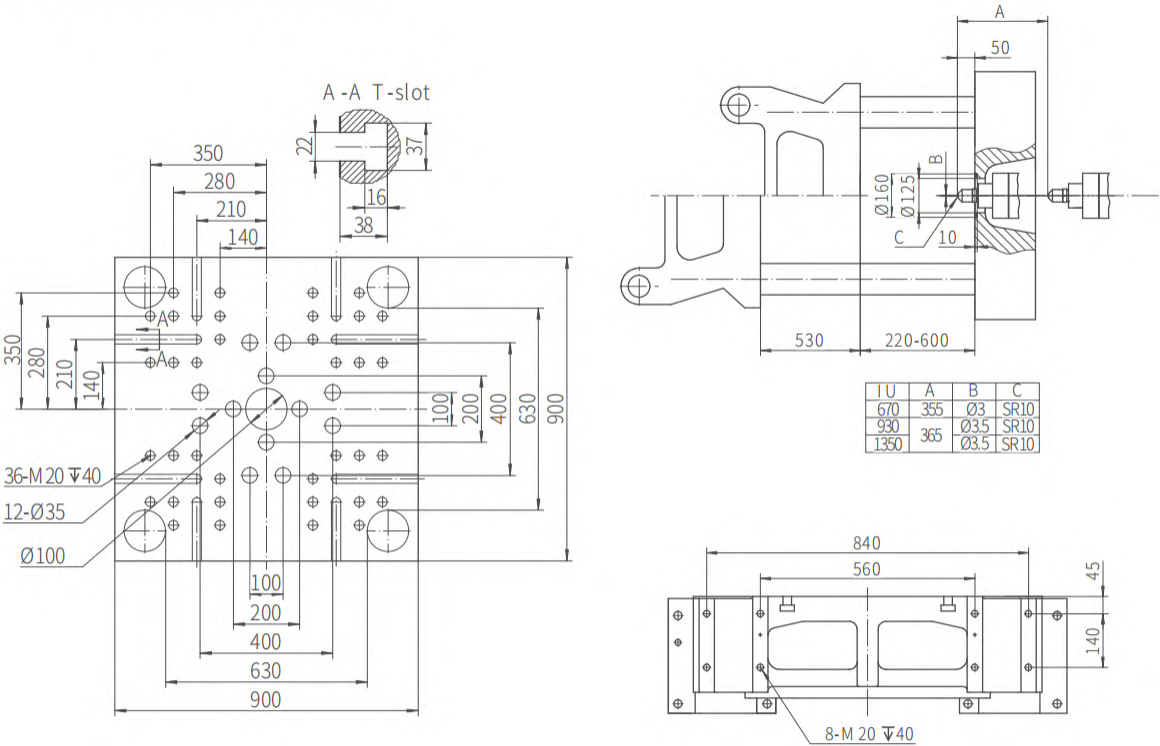
FF240										
CLAMPING UNIT										
Clamping force	kN	2400								
Mold opening/ closing stroke	mm	530								
Space between tie bars	mm	630×630								
Mold thickness	mm	220-600								
Ejector stroke	mm	150								
Ejector force	kN	55.6								
Number of ejectors	-	13								
INJECTION UNIT										
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	cm³	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		
Plasticizing rate	g/s	30.9	38.2	46.5	34.3	44.8	63.0	38.9	61.7	73.0
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								
Machine weight	kg	9200			9840			10950		

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

Machine Dimensions



Platen Dimensions

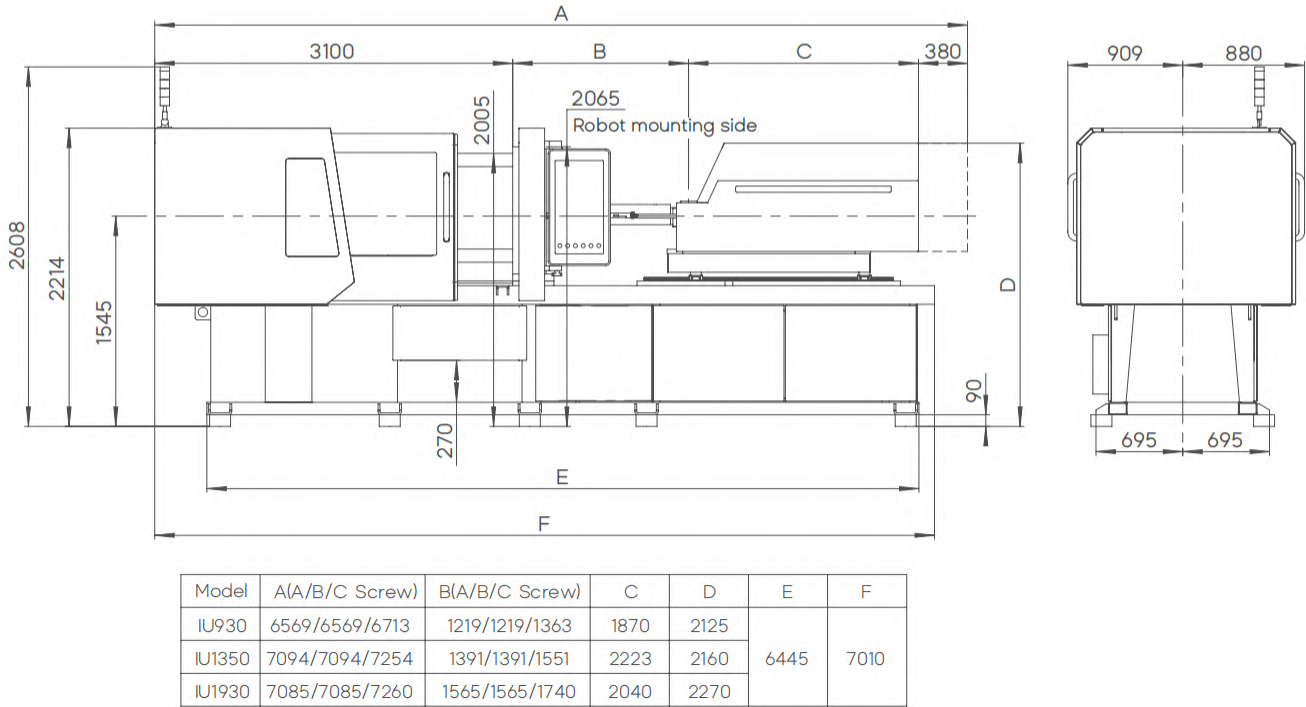


FF300

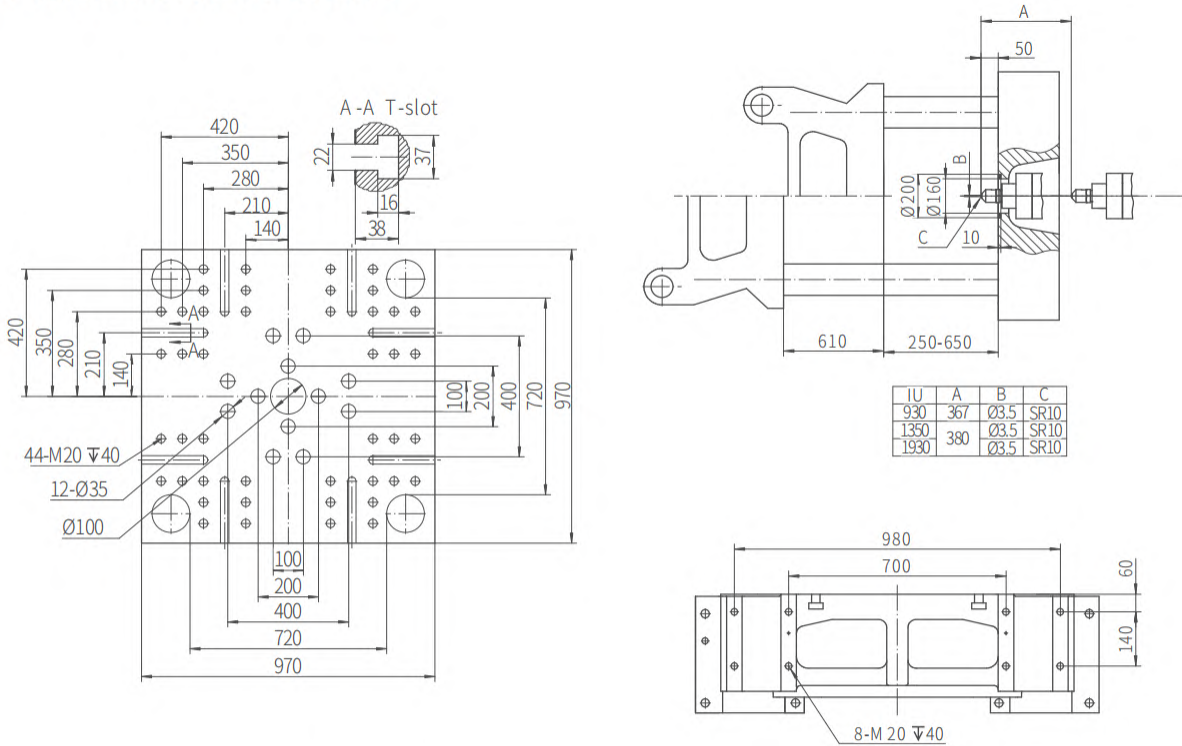
FF300										
CLAMPING UNIT										
Clamping force	kN	3000								
Mold opening/ closing stroke	mm	610								
Space between tie bars	mm	720×720								
Mold thickness	mm	250-650								
Ejector stroke	mm	150								
Ejector force	kN	55.6								
Number of ejectors	-	13								
INJECTION UNIT										
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	cm³	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		
Plasticizing rate	g/s	34.3	44.8	63.0	38.9	61.7	73.0	61.1	70.6	83.4
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								
Machine weight	kg	11370			12480			12900		

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

Machine Dimensions



Platen Dimensions

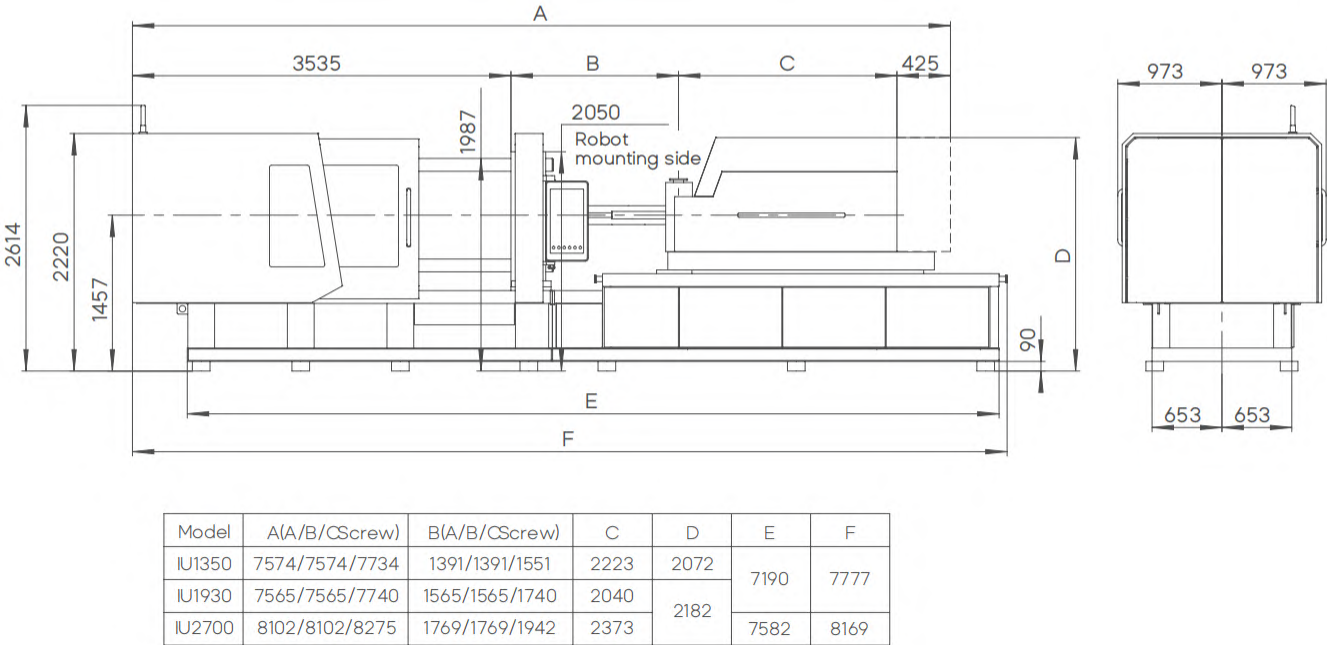


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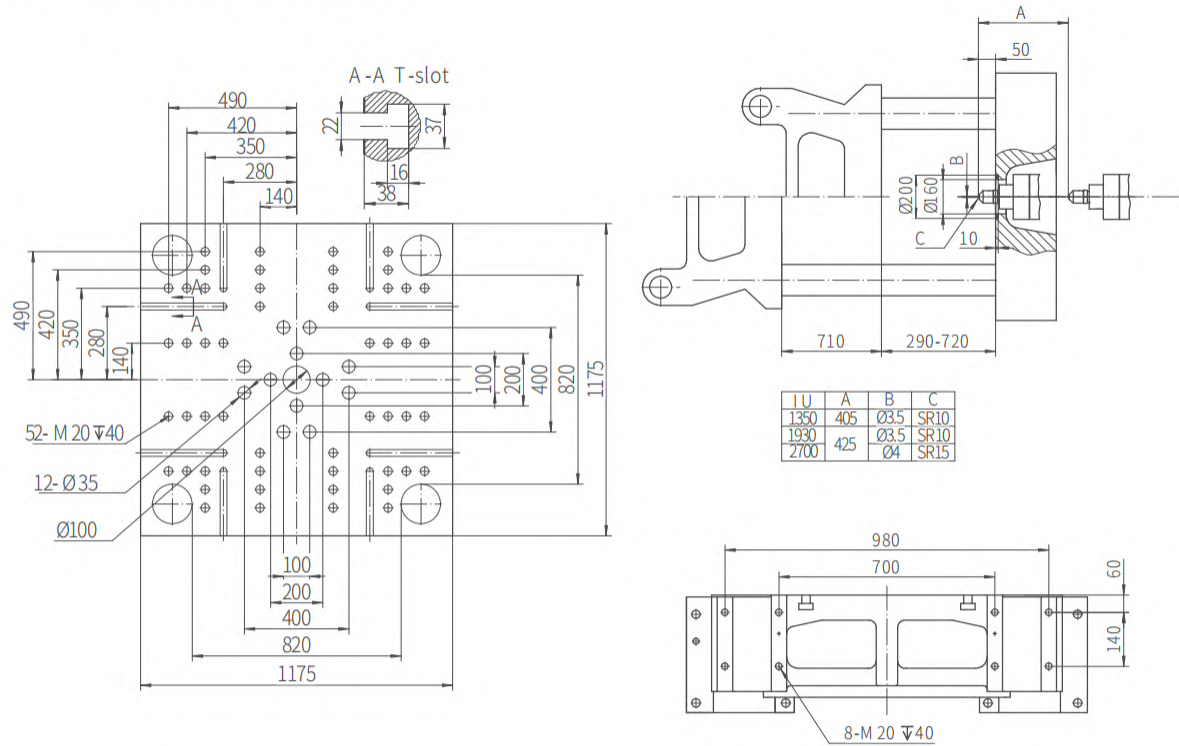
FF380										
CLAMPING UNIT										
Clamping force	kN	3800								
Mold opening/ closing stroke	mm	710								
Space between tie bars	mm	820×820								
Mold thickness	mm	290-720								
Ejector stroke	mm	200								
Ejector force	kN	99								
Number of ejectors	-	13								
INJECTION UNIT										
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	cm³	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		
Plasticizing rate	g/s	38.9	61.7	73.0	61.1	70.6	83.4	57.6	73.9	93
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								
Machine weight	kg	16880			17300			18690		

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

Machine Dimensions



Platen Dimensions

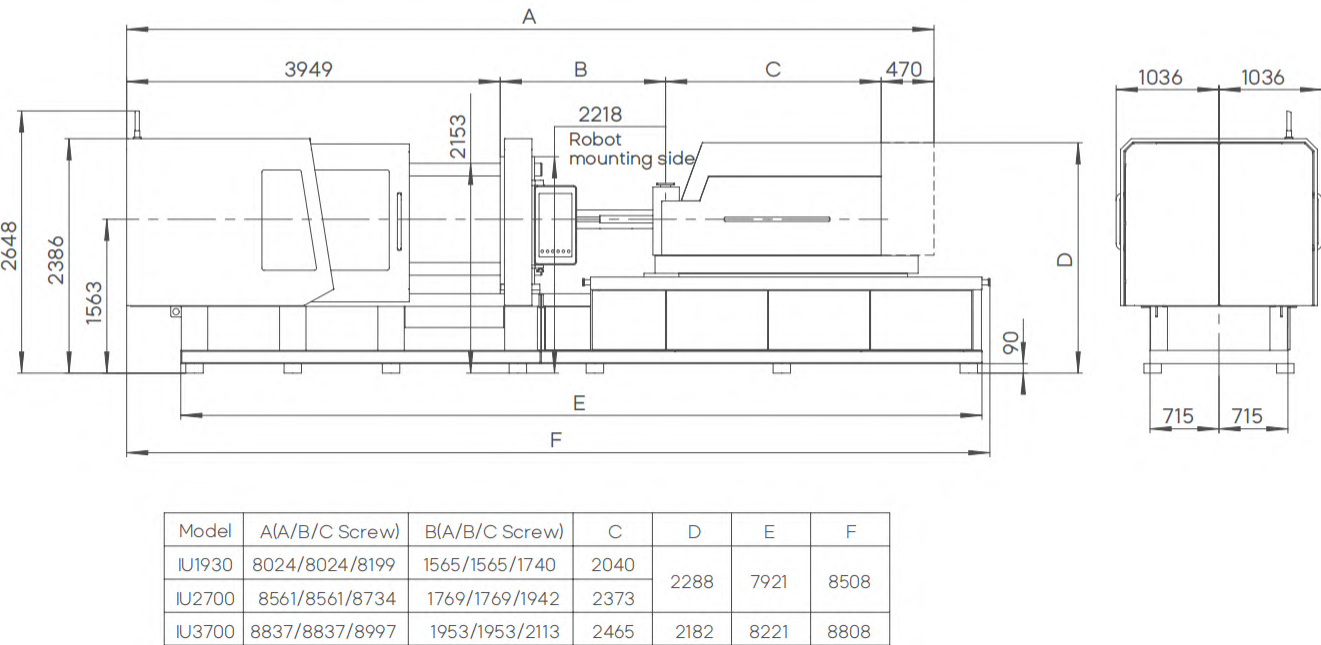


FF460

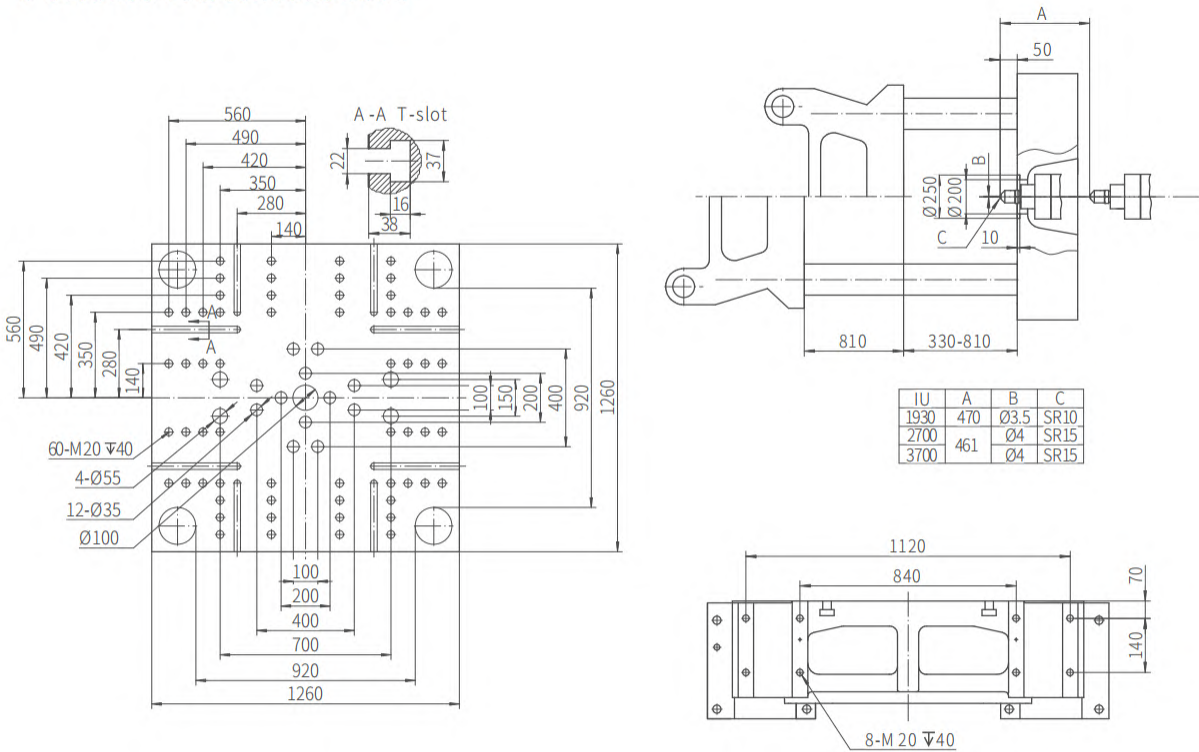
FF460										
CLAMPING UNIT										
Clamping force	kN	4600								
Mold opening/ closing stroke	mm	810								
Space between tie bars	mm	920×920								
Mold thickness	mm	330-810								
Ejector stroke	mm	200								
Ejector force	kN	99								
Number of ejectors	-	17								
INJECTION UNIT										
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	cm³	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		
Plasticizing rate	g/s	61.1	70.6	83.4	57.6	73.9	93	69.4	89	109.3
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								
Machine weight	kg	21460			22860			23150		

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

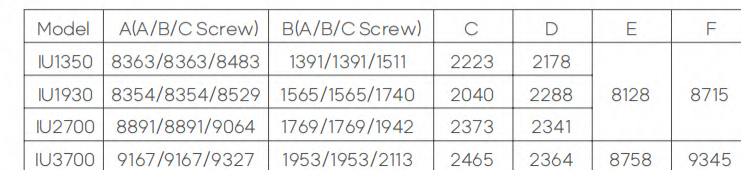
Machine Dimensions



Platen Dimensions



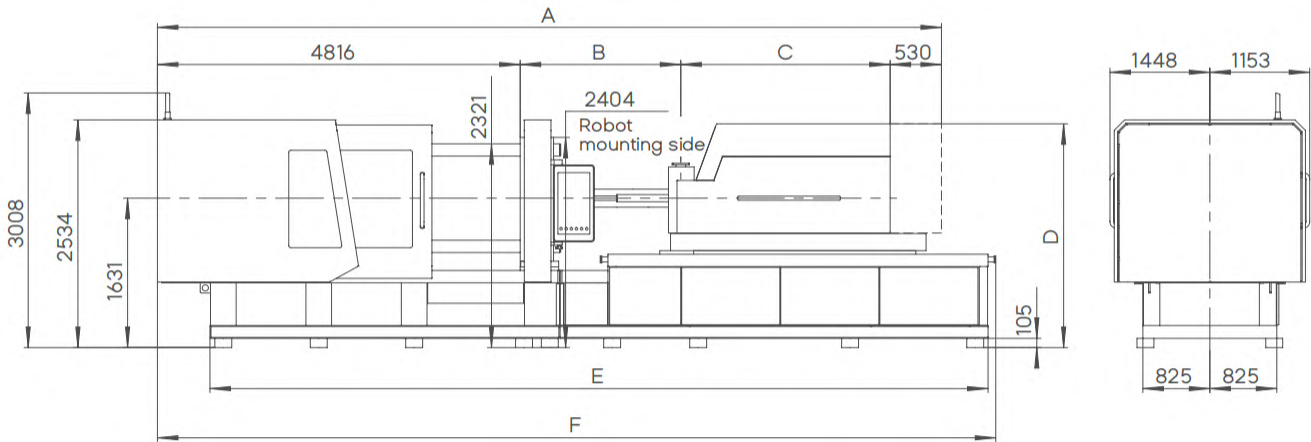
Machine Dimensions



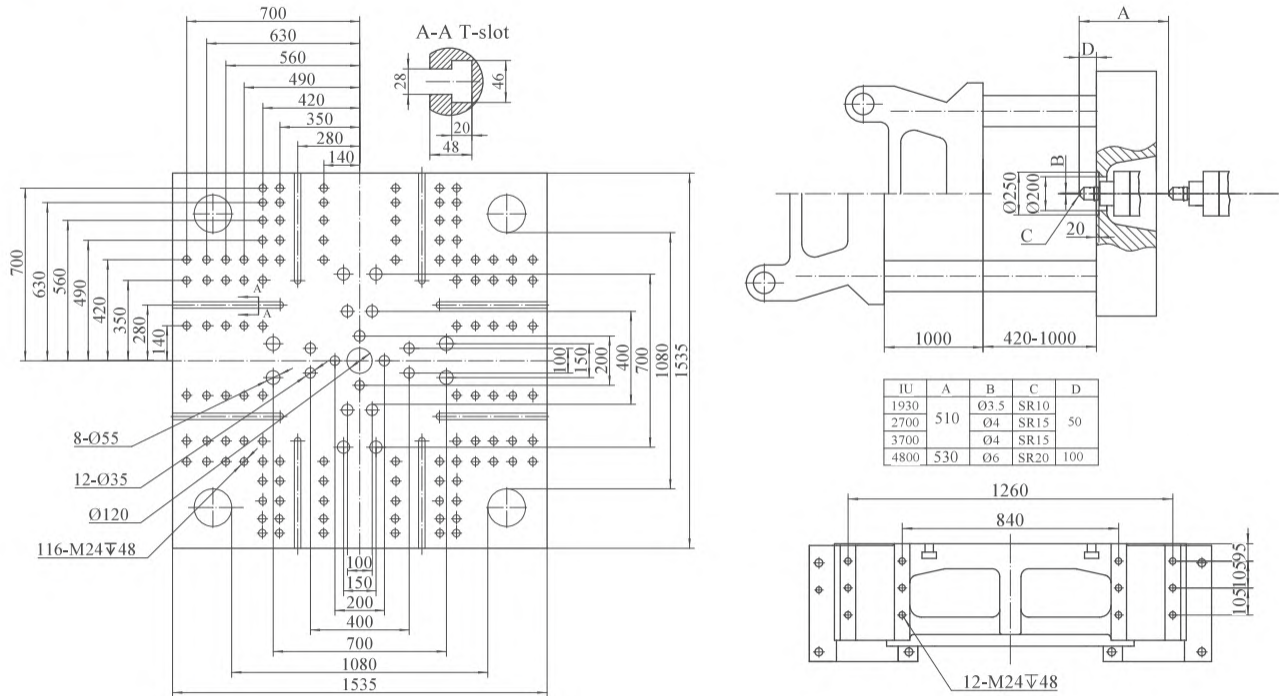
FF650

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	cm³	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		
Plasticizing rate	g/s	61.6	70.6	83.4	57.6	73.9	93	69.4	89	109.3	89	109.3	136.9
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											
Machine weight	kg	33420			34320			34620			35420		

Machine Dimensions



Platen Dimensions



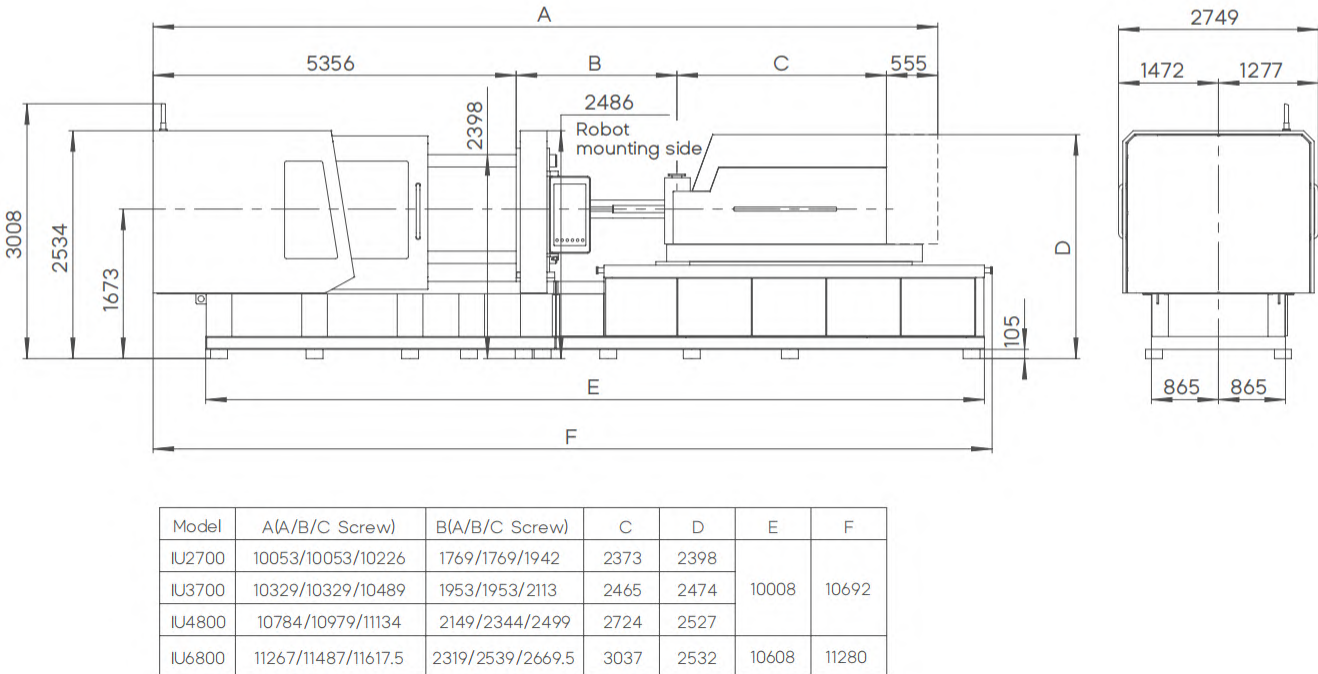
※The data above were acquired by testing in the factory, only for your reference.

FF850

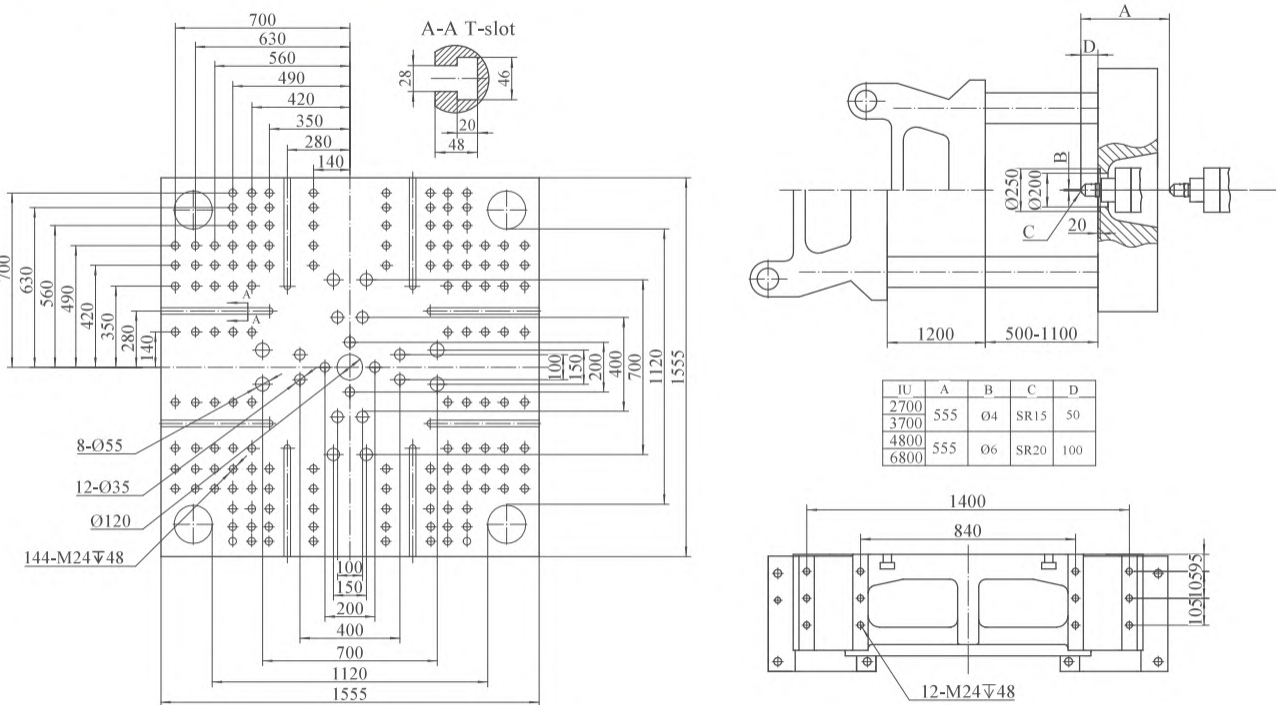
FF850													
CLAMPING UNIT													
Clamping force	kN	8500											
Mold opening/ closing stroke	mm	1200											
Space between tie bars	mm	1120×1120											
Mold thickness	mm	500-1100											
Ejector stroke	mm	210											
Ejector force	kN	230											
Number of ejectors	-	21											
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	cm³	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		
Plasticizing rate	g/s	57.6	73.9	93	69.4	89	109.3	89	109.3	136.9	96.2	112.3	132.6
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											
Machine weight	kg	40710			41010			41510			43070		

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

Machine Dimensions



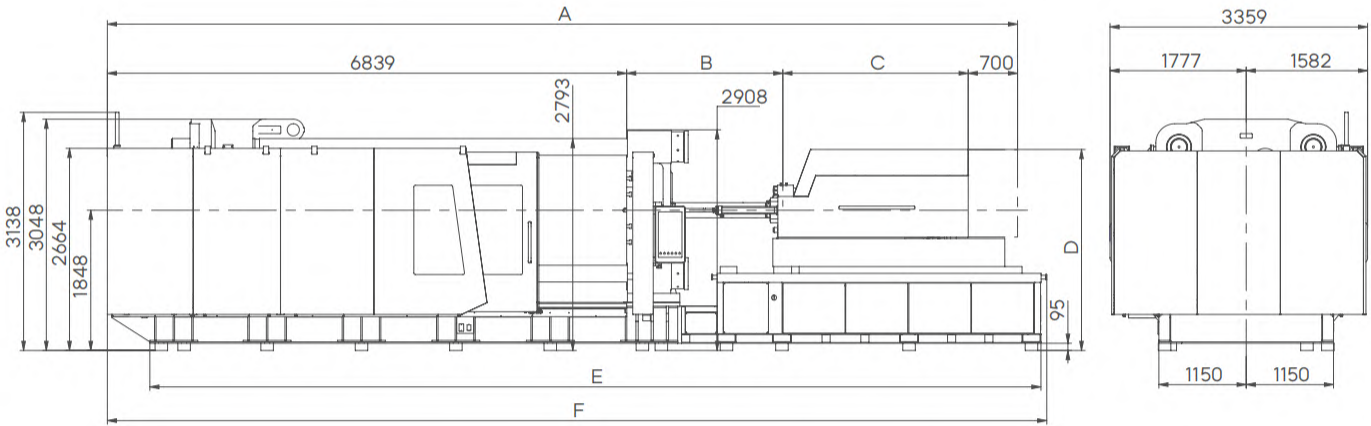
Platen Dimensions



FF1380

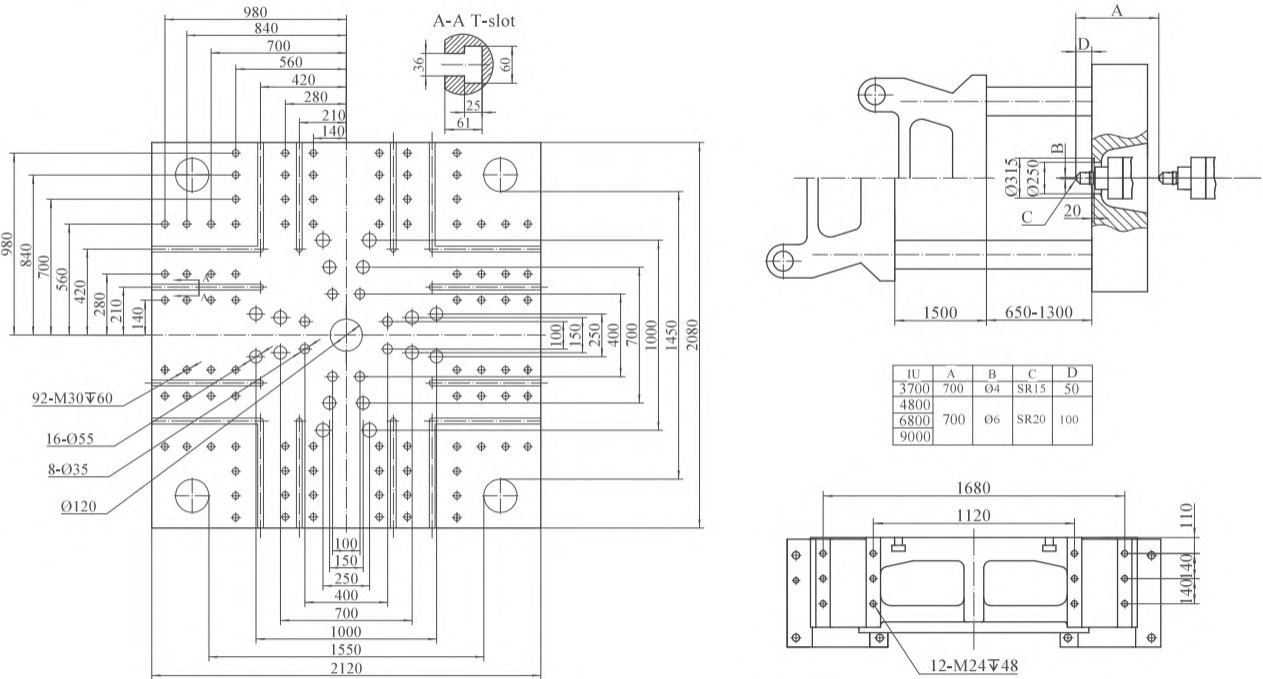
FF1380													
CLAMPING UNIT													
Clamping force	kN	13800											
Mold opening/ closing stroke	mm	1500											
Space between tie bars	mm	1550×1450											
Mold thickness	mm	650-1300											
Ejector stroke	mm	250											
Ejector force	kN	330											
Number of ejectors	-	25											
INJECTION UNIT													
Model of injection unit		IU3700			IU4800			IU6800			IU9000		
International specification		3691			4800			6800			9000		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	76	84	92	84	92	100	92	100	108	100	108	116
Screw L/D ratio	-	22.1	20	20	21.9	22	21.6	21.7	22	21.5	21.6	22	21.6
Screw stroke	mm	370			400			480			550		
Stroke-bore ratio	-	4.9	4.4	4.0	4.8	4.3	4.0	5.2	4.8	4.4	5.5	5.1	4.7
Shot volume	cm³	1678	2050	2460	2217	2659	3142	3191	3770	4397	4320	5038	5813
Shot weight (PS)	g	1544	1886	2263	2039	2446	2890	2936	3468	4045	3974	4635	5348
Injection pressure	MPa	220	180	150	216	180	152	213	180	154	210	180	156
Holding pressure	MPa	176	144	120	173	144	122	170	144	123	168	144	125
Injection speed (Std./Opt.)	mm/s	160			160			160			160		
Injection rate	g/s	668	816	979	816	979	1156	979	1156	1348	1156	1348	1556
Screw speed	rpm	180			150			150			150		
Plasticizing rate	g/s	69.4	89	109.3	89	109.3	136.9	96.2	112.3	132.6	99.4	117.6	145.8
Nozzle contact force	kN	100			100			120			120		
Heating power	kW	33.1		36.1	37.5	41.2	45.0	41.7	47.2	54.1	53.7	58.9	66.7
Total power	kW	138.8			148.5			160.9			209.0		
Total current	A	234.4			250.7			271.6			352.8		
GENERAL													
Dry cycle	s	5.0											
Machine weight	kg	73740			74240			75840			76550		

Machine Dimensions



Model	A(A/B/C Screw)	B(A/B/C Screw)	C	D	E	F
IU3700	11957/11957/12117	1953/1953/2113	2465	2649	11827	12462
IU4800	12412/12607/12762	2149/2344/2499	2724	2714		
IU6800	12895/13115/13245.5	2319/2539/2669.5	3037	2707	12427	13062
IU9000	13290/13518/13702	2510/2738/2922	3241	2747	12827	13464

Platen Dimensions



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

Standard and Optional Features of FF15-30

Standard Features

Control and Monitoring Unit - Highly sensitive 15 inch color touchscreen display - Memory of molding conditions (over 500 items) 1 set of standard USB interface on the operation panel - Multiple language (Chinese and English) - Real-time display of injection molding data (200 items displayed 5000 items saved) - Operation modification record - Alarm record - Electrical control circuit for simple robot - Metric and English unit conversions - I/O check display function - Printer interface (USB17) - Cycle time monitoring - Production management - PDP data and charts - Injection quality check - Cycle counter - Molding temperature monitoring - Drive cabinet temperature monitoring - Tri-color alarm light - Alarm buzzer - Low-pressure mold protection curve checking - Injection pressure protection - Defect alert and handling - Real-time display of injection and plasticizing servo motion curves - Display of actual value - Malfunction handling option selection - Product quality monitoring - Curves of mold opening/closing and ejector - Injection processing curve monitoring		
Clamping Unit 5-stage mold opening and closing control - Needle valve/Sprue (2 sets) - Multi-stage ejector forward - Ejector backward delay time monitoring - Automatic mold height adjustment - Sprue timing control - Curves of mold opening/closing and ejector - Low pressure mold protection (Ai highly-sensitive mold protection) - Low speed, low pressure mold opening/-closing in mold adjustment mode - Servo motor for clamping and ejector brake - Platen with mold mounting holes - Ejection inside the mold (gate cutting inside the mold) - Mold opening during ejector backward - Ejector motion selection (4 modes) 3-stage ejector control - Ejector motion delay - Mold cooling water distributor - Mold locating holes (Φ60) in fixed platen - Emergency stop function (on both operator side and non-operator side) - EU standard threaded mounting holes for robot - Central lubrication system - Core puller/unsrew function (1 set of electrical interface) - Air blast (2 sets of electrical interfaces) - Electric ejector - Intelligent clamping force management system (tail platen monitoring)		
Plasticizing and Injection Unit - Injection safety device (test switch) 5-stage injection control (pressure, speed, position) 3-stage holding pressure control (pressure, speed, time) 3-stage plasticizing control (back pressure, speed, position) - Suck-back control (pre-suckback and post-suckback) - Injection delay function - Pre-plasticizing delay - Holding pressure switching (6 modes) - Injection speed response setting (high, medium, low) - Mold opening during plasticizing - Molding temperature closed-loop control - Temperature holding - Temperature optimization - Synchronized temperature rise - Appointed temperature rise - Remaining resin prevention - Screw cold start prevention - Automatic material purge - B-grade bi-metallic screw & barrel component - Calibration of injection pressure zero point - Real-time display of plasticizing speed - Real-time display of plasticizing back pressure - Injection unit shift settings (switch check, shift time) - Two-stage nozzle contact (configurable) - Nozzle center alignment adjusting device - Stainless steel hopper (5L)		
General - Closed safety door - Adjustable leveling pad - Power outlet (220V × 1, on clamping unit frame) - Power outlet (380V, 32A × 1, on the rear side of clamping frame) - Common tool kits and spare parts		

Optional Features

Control and Monitoring Units - EU 12 electrical interface for robot - EU 67 electrical interface for robot - Additional languages - Cooling water circuit - Heater burnout detection - External transformer - Electrical interface for product sorting device - Electrical interface for gas assisted injection - Electrical interface for magnetic platens - Electrical interface for mold cavity pressure check - Mold temperature detection and control - OPC UA /DA - EU 73 electrical interface		
Clamping Unit - Various locating rings - Core unscrewing device - Needle valve/gate device (pneumatic) - Air blast device - Product chute - Mold thermal insulation plate - Glass-tube cooling water flowmeter - Pneumatic core puller device - Increased maximum daylight - Mold slide protection - Injection compression (clamping synchronized with injection) - Dual-mold structure for movable platen		
Plasticizing and Injection Unit - Dedicated barrel unit - Extended nozzle - Heat-retaining and energy-saving barrel - Ceramic heater band - Mold internal pressure V/P switching - Customized nozzle head		
General - Auxiliary electrical cabinet - Vacuum air extractor - Quality control sorting device - Integrated multi-stage mold temperature control		

■ Disclaimer:

1. The company reserves the right to improve the products described in the brochure, specifications are subject to change without notice.

2. The product photos are for reference only, which are subject to the actual products.

3. The data are obtained from YIZUMI's laboratory test, and the final interpretation right belongs to Yizumi.

Standard and Optional Features of FF60-1380

Standard Features

Control and Monitoring Unit - Highly sensitive 15 inch color touchscreen display - Memory of molding conditions (over 500 items) 1 set of standard USB interface on the operation panel - Multiple language (Chinese and English) - Real-time display of injection molding data (200 items displayed; 5000 items saved) - Operation modification record - Alarm record - Electrical control circuit for simple robot - Metric and English unit conversions - I/O check display function - Printer interface (USB 17) - Cycle time monitoring - Production management - PDP data and charts - Injection quality check - Cycle counter - Molding temperature monitoring - Tri-color alarm light - Alarm buzzer - Low-pressure mold protectioncurve checking - Injection pressure protection - Defect alert and handling - Real-time display of injection and plasticizing servo motion curves - Display of actual value - Malfunction handling option selection - Product quality monitoring - Curves of mold opening/closing and ejector - Injection processing curve monitoring		
Clamping Unit 5-stage mold opening and closing control - Needle valve/Spure functions (4 sets) - Multi-stage ejector forward - Ejector backward delay time monitoring - Automatic mold height adjustment - Spure timing control - Curves of mold open/close and ejector - Platen with T-slot and mold mounting holes - Low pressure mold protection (Ai highly-sensitive mold protection) - Low speed, low pressure mold opening / closing in mold adjustment mode - Ejection inside the mold (gate cutting inside the mold) - Mold opening during ejector backward - Ejector backward in place confirmation - Ejector motion selection (4 modes) 3-stage ejector control - Ejector motion delay - Mold cooling water distributor - Embedded dual-size locating ring design (fixed platen) - Emergency stop function (on both operator side and non-operator side) - EU standard threaded mounting holes for robot - Central lubrication system - Slope control for mold opening and closing (high, medium and low modes) - Core puller/unsrew function (2 sets of electrical interfaces) - Air blast (4 sets of electrical interfaces)		
Plasticizing and Injection Unit - Injection safety device (test switch) 5-stage injection control (pressure, speed, position) 3-stage holding pressure control (pressure, speed, time) 3-stage plasticizing control (back pressure, speed, position) - Suck-back control (pre-suckback and post-suckback) - Injection delay function - Pre-plasticizing delay - Holding pressure switching (6 modes) - Injection speed response setting (high, medium, low) - Mold opening during plasticizing - Molding temperature closed-loop control - Temperature holding - Temperature optimization - Synchronized temperature rise - Appointed temperature rise - Remaining resin prevention - Screw cold start prevention - Automatic material purge - Calibration of injection pressure zero point - Real-time display of plasticizing speed - Real-time display of plasticizing back pressure - Injection unit shift settings (switch check, shift time) - High-force nozzle contact device (configurable) - Nozzle center alignment adjusting device		
General - Color of FF series electric injection molding machine - Closed safety door - Adjustable leveling pad - Hopper sliding device - Power socket (220V x 1, on clamping unit frame) - Power socket (380V, 32A x 2, 16A x 1, on the right side of the injection unit frame) - Common tool kits and spare parts		

Optional Features

Control and Monitoring Units - EU 12 electrical interface for robot - EU 67 electrical interface for robot - Additional languages - Cooling water circuit - Heater burnout detection - External transformer - Electrical interface for product sorting device - Electrical interface for gas assisted injection - Electrical interface for magnetic platens - Electrical interface for mold cavity pressure check - Mold temperature display and control - OPC UA/DA - EU 73 electrical interface		
Clamping Unit - Various locating rings - Core unscrewing device - Needle valve/spure device - Air blast device - Product chute - Mold thermal insulation plate - Glass-tube cooling water flowmeter - Pneumatic ejector - Pneumatic core puller device - Increased Maximum daylight - Mold slide protection - Injection compression (clamping synchronized with injection)		
Plasticizing and Injection Unit - Dedicated barrel unit - Extended nozzle - Spring shut-off nozzle - Stainless steel hopper (max. load of 50kg dry material) - Barrel heat-retaining energy-saving device - Ceramic heater band - Mold internal pressure V/P switching - Needle valve pneumatic injection nozzle - High capacity injection nozzle heating band - Customized nozzle head		
General - Hopper sliding device (on wheels) - Barrel heat-retaining energy-saving device - Auxiliary electrical cabinet - Vacuum air extractor - Quality control sorting device - Integrated multi-stage mold temperature control		

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