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WE WALK ALONGSIDE THE WORLD

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YIZUMI 伊之密

FF

FF Series Electric Injection Molding Machine

(90T-460T)

广东伊之密精密注压科技有限公司

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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.





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 & Flexibility



Automation & Intellectualization

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. 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. 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.



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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 (LGS) 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 & Flexibility:

► 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

► Plasticizing speed is significantly increased

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

► 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

► 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

► Built-in hydraulic pump station

Support a variety of molding process with great flexibility and efficiency

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 MEC, the intelligent Statistics Process Control (SPC) helps to achieve automation and informationization

► The intelligent clamping force management system ensures the consistency of the clamping force in the production process

► SPH (Smart Mold Pressure Hold)

► SIC (Smart Injection Control)



High-rigid design of moving platen

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

Highly stable clamping unit

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

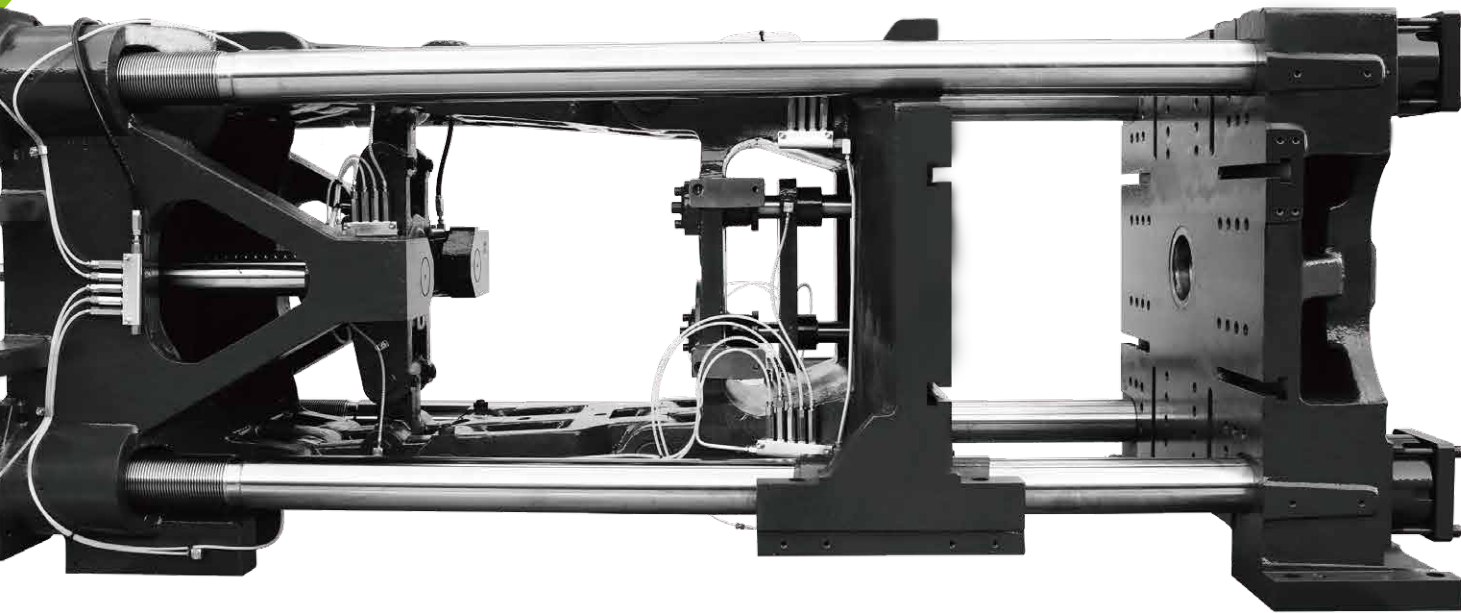
European KEB A2000 controller

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 $\pm 0.1\text{Mpa}$

Clamping Unit



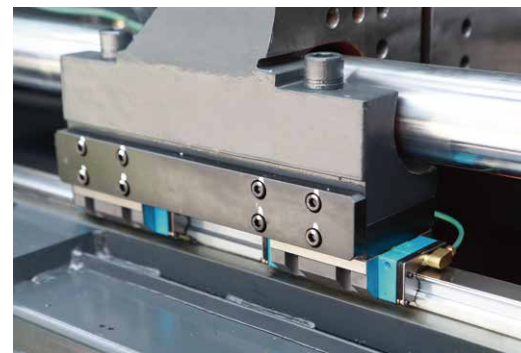
High stability of the TBF technology

- 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**



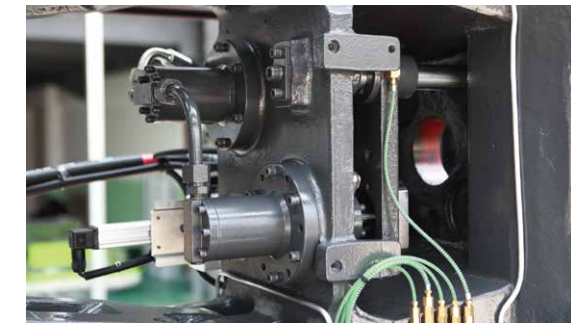
High-rigid design of moving platen

- 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** (FF90-240)
- Platen parallelism (with load) **≤0.08mm** (FF300-400)
- Faster dry cycle



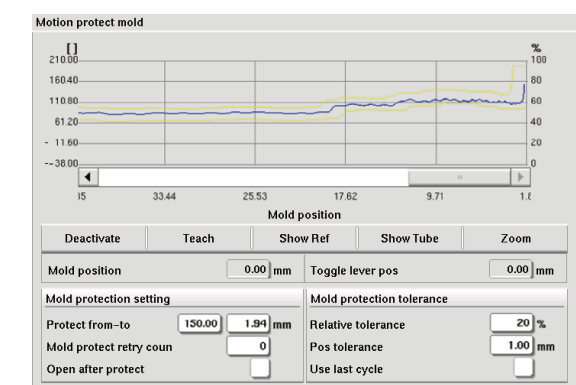
Dual-cylinder parallel ejection design

- 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.

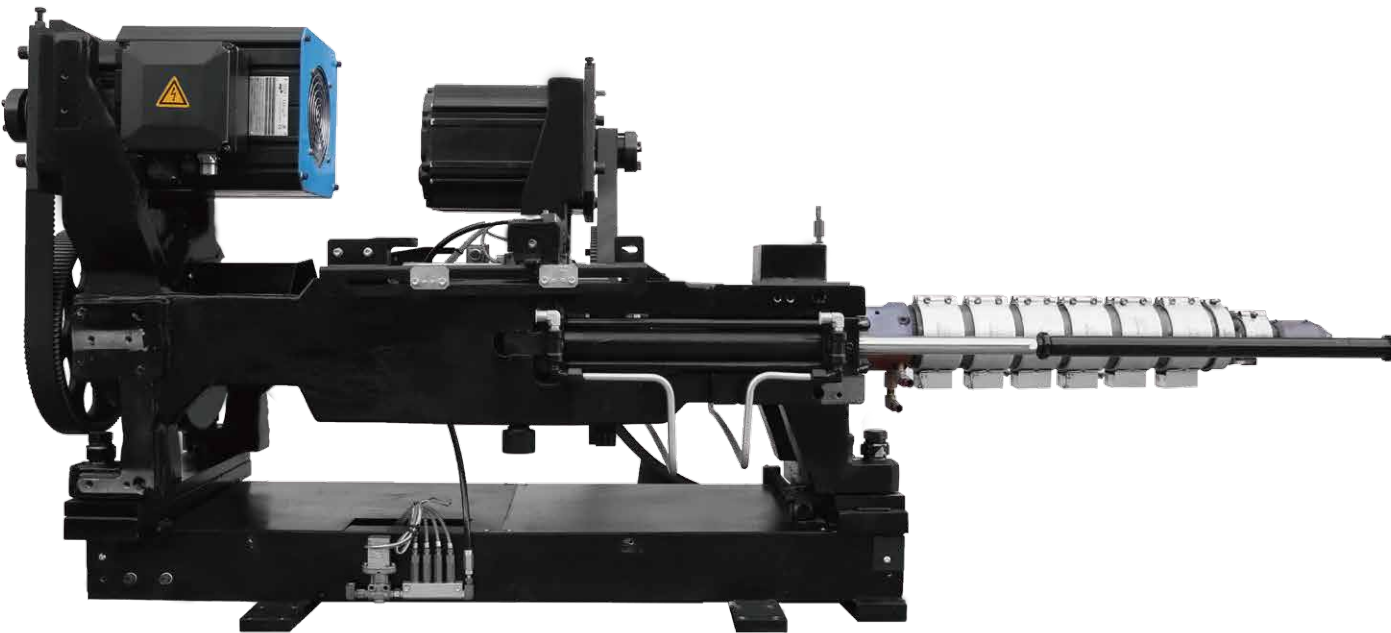


Unique “SMART” mold protection feature

- 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



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

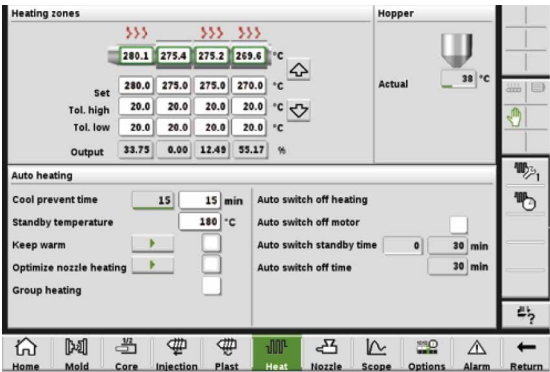


Close-up



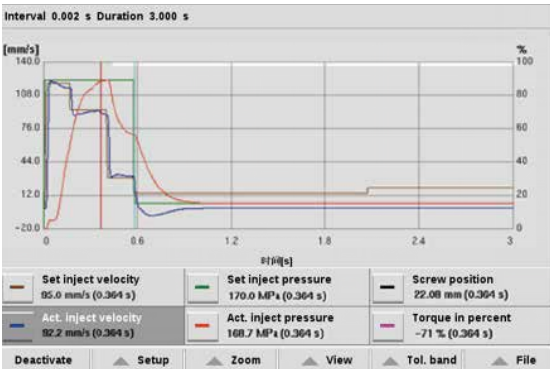
Dedicated screws for different materials

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



Temperature closed loop control

- ▶ Static deviation: $\pm 0.5^{\circ}$



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 $\pm 0.1\text{Mpa}$

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
- ▶ 12-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

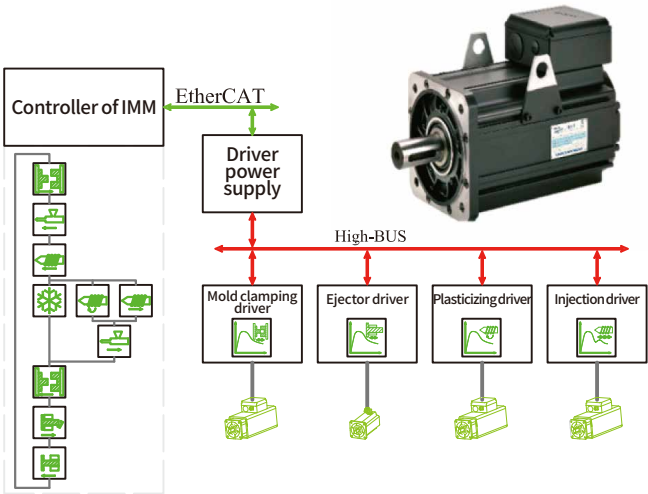


Threaded design
Stronger 3D effect

- ▶ 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:

- ▶ 90T~460T clamping force, 8 clamping modes
- ▶ 10 injection unit configurations, screws range $\Phi 22 \sim \Phi 92 \text{mm}$
- ▶ Each clamping mode has the option to select from 3 types of injection units and 9 types of barrel units
- ▶ Cover injection speeds of 160/200/300/350 (mm/s)

Machine	Injection unit Screw	IU170	IU200	IU320	IU430	IU670	IU930	IU1350	IU1930	IU2700	IU3700
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



3C products



Automotive parts



Medical consumables



Home appliances

FF90

Clamping unit										
Clamping force	kN	900								
Mold opening/ closing stroke	mm	320								
Space between tie bars	mm	420x420								
Minimum mold size	mm	294x294								
Mold thickness	mm	150-410								
Ejector stroke	mm	80								
Ejector force	kN	22.6								
Number of ejectors		5								
Injection unit										
Model of injection unit (standard/optional)		IU170/IU170h			IU200/IU200h			IU320/IU320h		
International specification		165			198			317		
		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	L/D	22	22	22	22	22	20	24	20	20
Screw stroke	mm	115			140			165		
Stroke-bore ratio		5.23	4.4	3.83	5.4	4.7	4.0	5.5	4.7	4.1
Shot volume	cm³	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 (standard/optional)	mm/s	200/350			200/350			200/350		
Injection rate (standard/optional)	cm³/s	76/134	106/186	141/248	106/186	141/248	192/337	141/248	192/337	251/440
Screw speed	rpm	400			400			400		
Nozzle contact force	kN	20			20			30		
Heating power	kW	4.8			4.8	5.5		6.9/7.8		

※The data above are measured according to factory testing standards and are for your reference only.

FF120

Clamping unit										
Clamping force	kN	1200								
Mold opening/ closing stroke	mm	370								
Space between tie bars	mm	480x480								
Minimum mold size	mm	336x336								
Mold thickness	mm	150-480								
Ejector stroke	mm	100								
Ejector force	kN	40								
Number of ejectors		5								
Injection unit										
Model of injection unit (standard/optional)		IU200/IU200h			IU320/IU320h			IU430/IU430h		
International specification		198			317			427		
		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	L/D	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 (standard/optional)	mm/s	200/350			200/350			200/300		
Injection rate (standard/optional)	cm ³ /s	106/186	141/248	192/337	141/248	192/337	251/440	192/289	251/377	290/436
Screw speed	rpm	400			400			400		
Nozzle contact force	kN	20			30			40		
Heating power	kW	4.8	5.5		6.9/7.8			9/10.1		

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FF160

Clamping unit										
Clamping force	kN	1600								
Mold opening/ closing stroke	mm	430								
Space between tie bars	mm	530x530								
Minimum mold size	mm	371x371								
Mold thickness	mm	175-520								
Ejector stroke	mm	125								
Ejector force	kN	40								
Number of ejectors		5								
Injection unit										
Model of injection unit (standard/optional)		IU320/IU320h			IU430/IU430h			IU670/IU670h		
International specification		317			427			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	L/D	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 (standard/optional)	mm/s	200/350			200/300			160/250		
Injection rate (standard/optional)	cm³/s	141/248	192/337	251/440	192/289	251/377	290/436	201/315	290/453	353/552
Screw speed	rpm	400			400			350		
Nozzle contact force	kN	30			40			40		
Heating power	kW	6.9/7.8			9/10.1			10.9/12.1		

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FF200

Clamping unit										
Clamping force	kN	2000								
Mold opening/ closing stroke	mm	480								
Space between tie bars	mm	580x580								
Minimum mold size	mm	406x406								
Mold thickness	mm	200-560								
Ejector stroke	mm	125								
Ejector force	kN	40								
Number of ejectors		9								
Injection unit										
Model of injection unit (standard/optional)		IU430/IU430h			IU670/IU670h			IU930		
International specification		427			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	L/D	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 (standard/optional)	mm/s	200/300			160/250			160		
Injection rate (standard/optional)	cm ³ /s	192/289	251/377	290/436	201/315	290/453	353/552	290	353	452
Screw speed	rpm	400			350			320		
Nozzle contact force	kN	40			40			60		
Heating power	kW	9/10.1			10.9/12.1			14.4/16.8		

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FF240

Clamping unit										
Clamping force	kN	2400								
Mold opening/ closing stroke	mm	530								
Space between tie bars	mm	630x630								
Minimum mold size	mm	441x441								
Mold thickness	mm	220-600								
Ejector stroke	mm	150								
Ejector force	kN	55.6								
Number of ejectors										
Injection unit										
Model of injection unit (standard/optional)		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	L/D	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 (standard/optional)	mm/s	160/250			160			160		
Injection rate (standard/optional)	cm ³ /s	201/315	290/453	353/552	290	353	452	353	452	581
Screw speed	rpm	350			320			300		
Nozzle contact force	kN	40			60			60		
Heating power	kW	10.9/12.1			14.4/16.8			16.6/19		

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FF300

Clamping unit										
Clamping force	kN	3000								
Mold opening/ closing stroke	mm	610								
Space between tie bars	mm	720x720								
Minimum mold size	mm	504x504								
Mold thickness	mm	250-650								
Ejector stroke	mm	150								
Ejector force	kN	55.6								
Number of ejectors		13								
Injection unit										
Model of injection unit (standard/optional)		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	L/D	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 (standard/optional)	mm/s	160			160			160		
Injection rate (standard/optional)	cm ³ /s	290	353	452	353	452	581	452	581	726
Screw speed	rpm	320			300			250		
Nozzle contact force	kN	60			60			60		
Heating power	kW	14.4/16.8			16.6/19			22.2/24.6		

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FF380

Clamping unit										
Clamping force	kN	3800								
Mold opening/ closing stroke	mm	710								
Space between tie bars	mm	820x820								
Minimum mold size	mm	574x574								
Mold thickness	mm	290-720								
Ejector stroke	mm	200								
Ejector force	kN	99								
Number of ejectors		13								
Injection unit										
Model of injection unit (standard/optional)		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	L/D	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 (standard/optional)	mm/s	160			160			160		
Injection rate (standard/optional)	cm ³ /s	353	452	581	452	581	726	581	726	887
Screw speed	rpm	300			250			200		
Nozzle contact force	kN	60			60			100		
Heating power	kW	16.6/19			22.2/24.6			24.6/30.9		

※The data above are measured according to factory testing standards and are for your reference only.

FF460

Clamping unit										
Clamping force	kN	4600								
Mold opening/ closing stroke	mm	810								
Space between tie bars	mm	920x920								
Minimum mold size	mm	644x644								
Mold thickness	mm	330-810								
Ejector stroke	mm	200								
Ejector force	kN	99								
Number of ejectors		13								
Injection unit										
Model of injection unit (standard/optional)		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	L/D	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 (standard/optional)	mm/s	160			160			160		
Injection rate (standard/optional)	cm ³ /s	452	581	726	581	726	887	726	887	1064
Screw speed	rpm	250			200			180		
Nozzle contact force	kN	60			100			100		
Heating power	kW	22.2/24.6			24.6/30.9			33.1/36.2		

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Standard Features

Control and monitoring unit

- Highly sensitive 12-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)
- Hydraulic ejector

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

Other features

- Color of FF series electric injection molding machine
- Closed safety door
- Adjustable vibration-damping wedge mount
- 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

- EU12 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

Other features

- 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

■ 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.