THINK TECH FORWARD

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YIZUMI

FS 90-480T

FS SERIES ELECTRIC INJECTION MOLDING MACHINE

Leading the Evolution from Hydraulic to Electric



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【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.

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THINK TECH FORWARD

FS

PRODUCT DETAILS

PRODUCT DETAILS

Leading the Evolution from Hydraulic to Electric

As manufacturers face growing pressure to upgrade, conventional hydraulic injection molding machines are increasingly limited by high energy consumption, low efficiency, insufficient precision, complex maintenance, and limited intelligence. Meanwhile, high-performance all-electric machines can cost two to three times as much as high-end hydraulic models, making them difficult for many SMEs to afford. This creates a clear price gap between the two, highlighting the need for a solution that combines advanced performance with a more accessible cost.

Leveraging YIZUMI's IPD 2.0 standardized development process and expertise in electric technologies, the project team conducted multiple rounds of development and validation based on market needs, bringing the high-value FS series electric injection molding machine to life.

The new FS series brings the core advantages of all-electric molding — high efficiency, energy savings, precision, and intelligent control — at a price between high-end hydraulic and all-electric machines. Designed for conventional injection molding manufacturers, it offers a cost-effective way to replace aging hydraulic equipment at scale, making high-quality electric molding accessible to more manufacturers.

YIZUMI —— Think Tech Forward

Core Value Propositions

Efficiency

Precision

Green

Intelligence

Faster dry cycle

Multi-axis synchronization

Tie bar load deviation: ≤2%

Injection positioning accuracy: 0.05 mm

Mold opening position repeatability: ±0.02 mm

KEBA controller standard across all models

Intelligent control system

Fully enclosed aerogel insulation device

Intelligent energy consumption management system

Low-speed injection control accuracy: 0.2 mm/s

Injection speed increased by 53–90%

Plasticizing speed increased by 15–37%



FS

* Data were obtained under specific test conditions; actual performance may vary.
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Clamping Unit



High speed and fast response

FS series features direct drive from electric servo motor, delivering over 30% faster mold opening and closing response than hydraulic system. The result is shorter dry cycles and higher production efficiency.



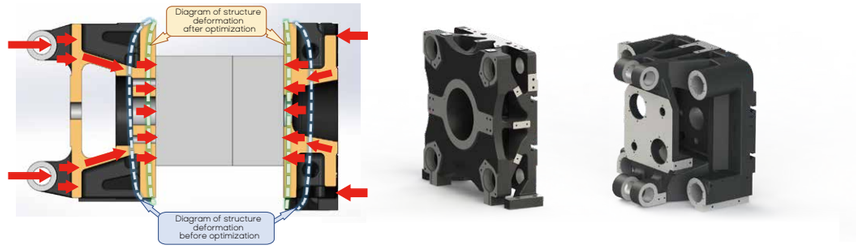
Built-in servo pump station

- The built-in servo-hydraulic pump station powers injection carriage and ejection, offering faster response, lower energy consumption, and saving floor space compared with conventional external pump stations.
- It also flexibly supports core pulling and unscrewing mold applications across a wide range of industries.



Dual pressure-center platens

FS series has introduced a new upgrade with dual pressure-center platens, both fixed and movable platens utilizing YIZUMI's patented pressure-center structure. This design, optimized through simulation, provides excellent rigidity, reduces deformation, and supports better product molding.



- Increased molding precision — optimized design decreases overall deformation of fixed and movable platens by 10% to 25%, resulting in reduced stress on platens during clamping and significantly less cavity deformation.
- Improved utilization of clamping force — effectively addresses problems like flash and low product consistency, while allowing the high-strength, low-deformation structure to employ a lower clamping force for stable clamping.
- Extended service life of mold and equipment — enhanced strength, lightweight structure, and reduced clamping force minimizes wear on molds and machines, resulting in less maintenance and longer service life.
- With the "intelligent clamping force optimization" function, the equipment can sustain the optimal clamping force, making operation more effortless, reliable, and stable.

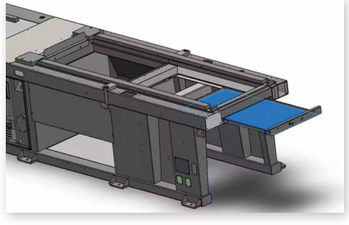
Dual-cylinder parallel ejection design

- Evenly distributed demolding force protects the mold ejector pin system and ensures stable ejection.
- Supports synchronized ejection with multiple ejection modes, including in-mold cutting.



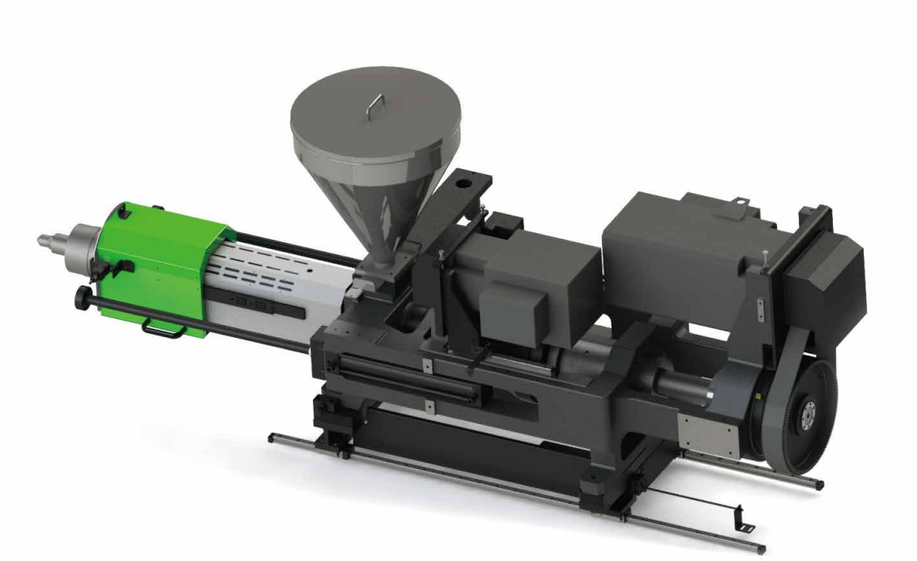
Pull-out oil drip tray

- The clamping unit features a removable, pull-out oil drip tray underneath, making it easier to keep the area beneath the clamping unit clean.



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Injection Unit



New exterior design

- CE-compliant sheet metal design.
- Concealed cable and piping routing with energy chain for a cleaner, more streamlined machine.
- External injection nozzle centering adjustment for easier and more convenient maintenance.



High-precision injection unit

- Electric servo-driven closed-loop injection control system delivers injection positioning accuracy of ≤0.05 mm for precise, reliable molding.
- Injection speed increased by 53–90% compared with hydraulic machines.
- Plasticizing speed increased by 15–37% compared with hydraulic machines.
- Standard long holding-pressure function supports both thin-wall and thick-wall molding.



High-rigidity injection unit

- FS series features integral dual-layer support for injection unit as a standard configuration, with dual linear guides for both carriage and injection.
- Lower resistance in injection process improves energy efficiency; faster response, more accurate control.



Customized plasticizing components

- Customized plasticizing components can be selected based on different molding materials to meet the high-quality plasticizing requirements of diverse industry applications.



Fully enclosed aerogel insulation device

- FS series introduces an upgraded insulation system with a fully enclosed design and optimized structure, utilizing aerogel material with exceptional thermal insulation capabilities. This upgrade extends the longevity and significantly improves energy efficiency.

  * This configuration is suitable for general-purpose materials and is not recommended for shear-sensitive materials.

- In tests on the F160S model, fully enclosed aerogel insulation device (standard feature) maintains a constant temperature of 240°C for one hour, achieving about 40% energy saving compared to conventional insulation systems.



Closed-loop temperature control

- Static deviation: ±0.5°C



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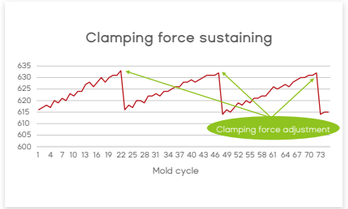
Control System

KEBA2000 controller standard across all models



- Simple operation. Powerful performance. A high-performance solution for high-end injection molding machines.
- Full-function keypad with 15'' TFT true-color display.
- Storage for up to 700 sets of mold parameters.
- Optional MES interface.
- Supports common communication interfaces, including RS-485, USB, CANopen, EtherCAT, OPC UA (optional), and EUROMAP 77 (optional).
- Multi-curve display for mold opening and closing, plasticizing, temperature, injection monitoring, and more — all directly viewable on the controller.
- Enables multi-axis synchronization to shorten production cycles.

Intelligent clamping force management system



*The curve illustrates the "Intelligent Clamping Force Sustaining" feature, showcasing its automatic adjustments in response to the gradual rise in clamping force due to mold expansion from temperature increases during continuous production.

- FS series is equipped with **intelligent clamping force management system**, YIZUMI's advanced intelligent R&D innovation.
- **Intelligent clamping force management system** proactively identifies and sets optimal clamping force, monitors and intelligently optimizes clamping force parameters, enabling users to efficiently and conveniently operate the injection molding machine while improving the stability of product quality.
- Standard functions of intelligent clamping force management system: ① Clamping force monitoring ② Clamping force sustaining

① Clamping force monitoring

The system automatically monitors the clamping force for each mold clamping. When the clamping force exceeds the setting deviation limits, automatic alarm is triggered, effectively preventing defective products due to abnormal clamping force.

② Clamping force sustaining

If clamping force exceeds setting deviation, the system will smartly adjust the mold thickness during the next mold opening to ensure the clamping force returns to the set range.

Based on customers' actual product needs, more optional features of intelligent clamping force management system are available:

Intelligent clamping force sustaining Pro: Compared with the standard version, it provides more precise monitoring and finer mold adjustment.

Intelligent clamping force optimization: Real-time monitor on clamping force changes during injection, intelligently analysis on product's actual molding requirements, and adjustment to optimal clamping force.

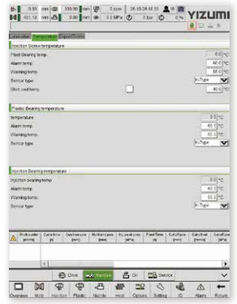
Clamping force balance monitoring: Real-time monitor on the stress on each tie bar and automatically alarms if the stress exceeds setting limits.

Intelligent weight V/P control



- Intelligent weight V/P control function, YIZUMI's core R&D achievement for all models, improves product weight repeatability.
- In the production process, the controller monitors the pressure variations of plasticizing and uses algorithms to automatically adjust the holding pressure switchover point or the holding pressure, ensuring precise repeatability of product weight.
- Holding pressure switchover control of consistent shot weight: For molds with short holding time, holding pressure switchover control with consistent shot weight performs better.
- Holding pressure control of consistent compression of melting material: For molds with longer holding time, holding pressure control of consistent compression of melting material provides superior performance.

Core components temperature check



Temperature sensors monitor the injection screw, injection bearings, and plasticizing bearings. When abnormal temperatures are detected, the system issues an alert within seconds — catching potential issues faster than manual inspections and helping prevent machines from operating with undetected faults.

Proactive maintenance reminder



No more guesswork or missed maintenance. Using real operating data such as runtime, frequency, and duration, the system automatically calculates maintenance needs and sends timely reminders. Condition-based maintenance helps extend machine life and keep production running smoothly.

Intelligent energy management system



FS series is equipped with intelligent energy management system, enabling energy consumption data to be digitized and visualized.

- 24-hour energy consumption and production statistics
- Energy consumption data of the mold is visually represented in real-time curves, serving as a reference for energy-saving and parameter optimization.
- Users can input the electricity unit price for online measurement and display of energy cost for each product.
- It shows real-time energy consumption changes, allowing a clear understanding of the relationship between each motion and energy use, which facilitates the optimization of process parameters.

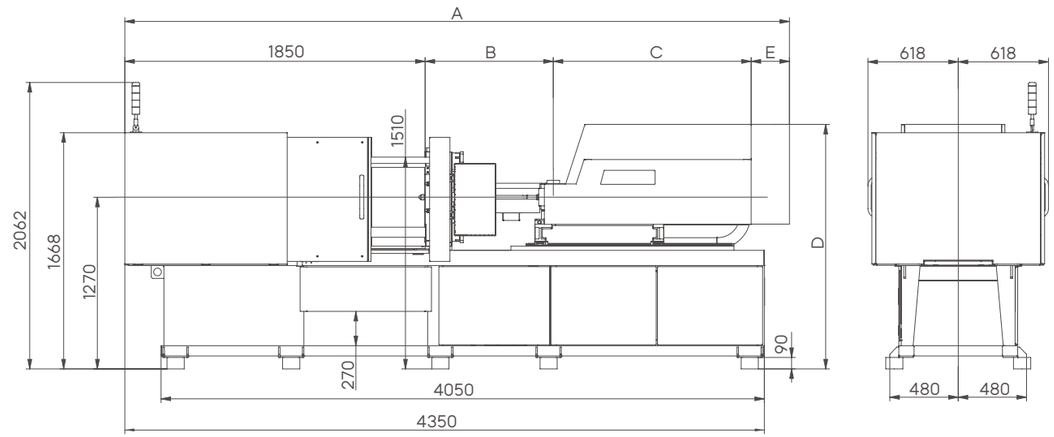
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F90S

Description	UNIT	F90S					
Clamping Unit							
Clamping force	kN	900					
Opening stroke	mm	330					
Space between tie bars	mm	360×360					
Mold thickness	mm	130-380					
Ejector stroke	mm	100					
Ejector force	kN	22.6					
Ejector number	-	5					
Injection Unit							
Injection model		IU200s			IU320s		
International specifications		198			318		
		A	B	C	A	B	C
Screw diameter	mm	26	30	35	30	35	40
Screw L/D ratio	-	22	22	20	24	20	20
Screw stroke	mm	140			165		
Stroke-bore ratio	-	5.4	4.7	4.0	5.5	4.7	4.1
Shot volume	cm^3	74	99	135	117	159	207
Shot weight (PS)	g	68	91	124	107	146	191
Injection pressure	MPa	266	200	147	272	200	153
Holding pressure	MPa	213	160	118	218	160	123
Injection speed	mm/s	200			200		
Injection rate	g/s	98	130	177	141	192	251
Screw speed	rpm	400			400		
Nozzle contact force	kN	20			30		
Heating power	kW	6.1	7.1	8.1	6.9	6.9	7.8
Total power	kW	32.5			44.3		
Total current	A	55			74.8		
General							
Dry cycle	s	1.44					
Oil pump motor	kW	10					
Max. system pressure	Mpa	16					
System flow	L/min	50					
Oil tank capacity	L	106					

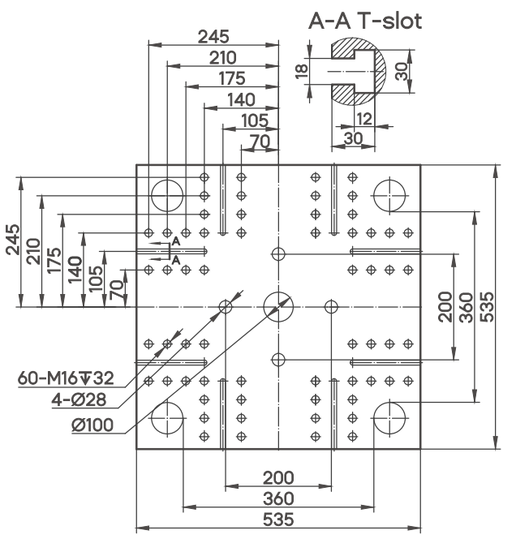
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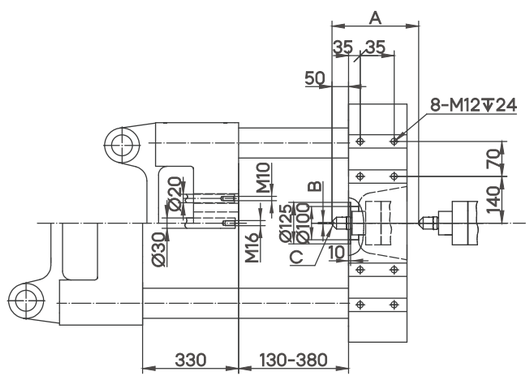
Machine Dimensions



Model	A (A/B/C Screw)	B (A/B/C Screw)	C (A/B/C Screw)	D	E
IU200s	4088/4194/4253	721/827/886	1262	1739	275
IU320s	4448/4448/4523	867/867/941	1363	1739	275

Platen Dimensions





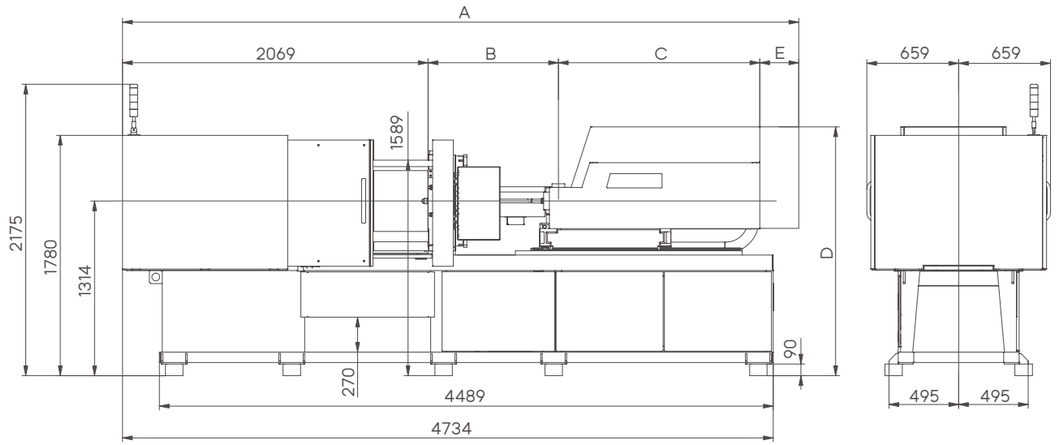
IU	A	B	C
200s	275	Ø2	SR10
320s	275	Ø3	SR10

F120S

Description	UNIT	F120S								
Clamping Unit										
Clamping force	kN	1200								
Opening stroke	mm	360								
Space between tie bars	mm	410×410								
Mold thickness	mm	145-450								
Ejector stroke	mm	100								
Ejector force	kN	40								
Ejector number	-	5								
Injection Unit										
Injection model		IU200s			IU320s			IU500s		
International specifications		198			318			500		
		A	B	C	A	B	C	A	B	C
Screw diameter	mm	26	30	35	30	35	40	35	43	48
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	4.0	3.5
Shot volume	cm^3	74	99	135	117	159	207	164	247	308
Shot weight (PS)	g	68	91	124	107	146	191	150	227	283
Injection pressure	MPa	266	200	147	272	200	153	302	200	161
Holding pressure	MPa	213	160	118	218	160	123	242	160	128
Injection speed	mm/s	200			200			200		
Injection rate	g/s	98	130	177	130	177	231	177	267	333
Screw speed	rpm	400			400			400		
Nozzle contact force	kN	20			30			40		
Heating power	kW	6.1	7.1	8.1	6.9	6.9	7.8	9	9	10.1
Total power	kW	32.5			44.3			58.4		
Total current	A	55			74.8			98.5		
General										
Dry cycle	s	1.66								
Oil pump motor	kW	10								
Max. system pressure	Mpa	16								
System flow	L/min	50								
Oil tank capacity	L	106								

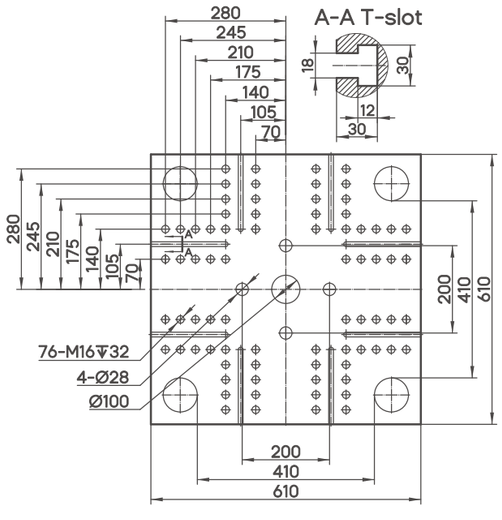
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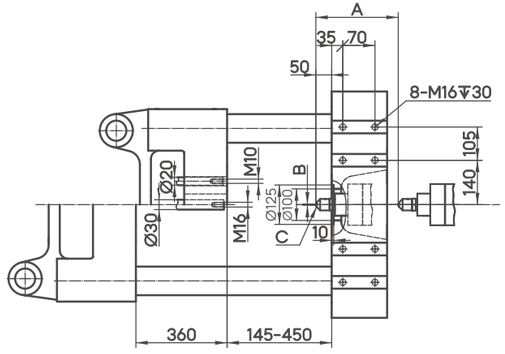
Machine Dimensions



Model	A (A/B/C Screw)	B (A/B/C Screw)	C (A/B/C Screw)	D	E
IU200s	4328/4434/4493	721/827/886	1263	1809	275
IU320s	4589/4589/4663	867/867/941	1363	1811	290
IU500s	4921/5021/5021	1007/1007/1107	1555	1886	290

Platen Dimensions





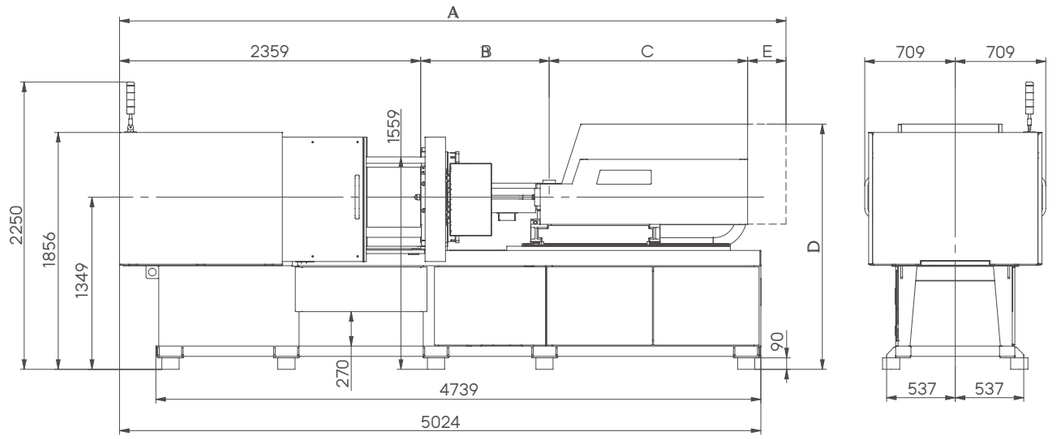
IU	A	B	C
200s	275	Ø2	SR10
320s	290	Ø3	SR10
500s	290	Ø3	SR10

F160S

Description	UNIT	F160S								
Clamping Unit										
Clamping force	kN	1600								
Opening stroke	mm	420								
Space between tie bars	mm	470×470								
Mold thickness	mm	160-520								
Ejector stroke	mm	140								
Ejector force	kN	40								
Ejector number	-	5								
Injection Unit										
Injection model		IU320s			IU500s			IU670s		
International specifications		318			500			668		
		A	B	C	A	B	C	A	B	C
Screw diameter	mm	30	35	40	35	43	48	43	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	4.0	3.5	4.8	4.3	3.9
Shot volume	cm^3	117	159	207	164	247	308	298	371	452
Shot weight (PS)	g	107	146	191	150	227	283	274	341	416
Injection pressure	MPa	272	200	153	302	200	161	224	180	148
Holding pressure	MPa	218	160	123	242	160	128	179	144	118
Injection speed	mm/s	200			200			160/200		
Injection rate	g/s	130	177	231	177	267	333	214	266	325
Screw speed	rpm	400			400			350		
Nozzle contact force	kN	30			40			40		
Heating power	kW	6.9	6.9	7.8	9	9	10.1	10.9	10.9	12.1
Total power	kW	44.3			58.4			55.7		
Total current	A	74.8			98.5			94		
General										
Dry cycle	s	1.84								
Oil pump motor	kW	10								
Max. system pressure	Mpa	16								
System flow	L/min	50								
Oil tank capacity	L	106								

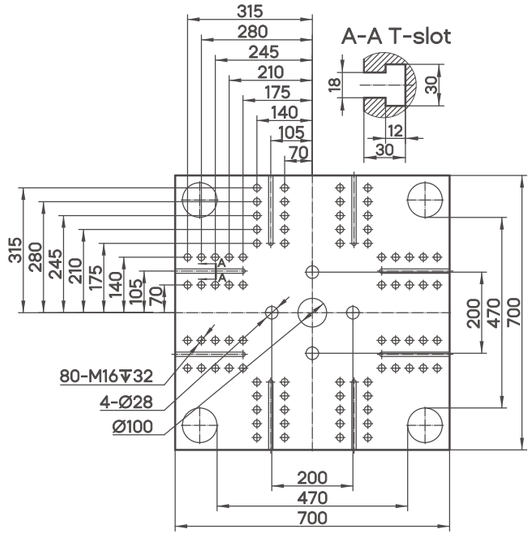
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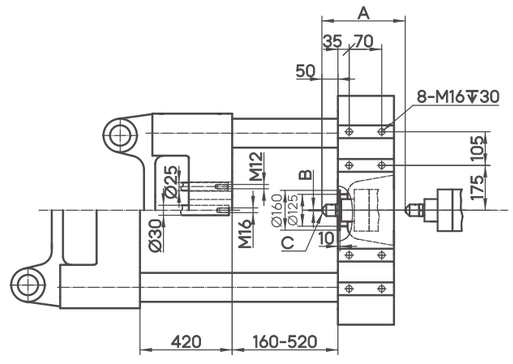
Machine Dimensions



Model	A (A/B/C Screw)	B (A/B/C Screw)	C (A/B/C Screw)	D	E
IU320s	4899/4899/4973	867/867/941	1363	1846	310
IU500s	5231/5231/5331	1007/1007/1107	1555	1921	310
IU670s	5509/5509/5609	1106/1106/1206	1734	1911	310

Platen Dimensions





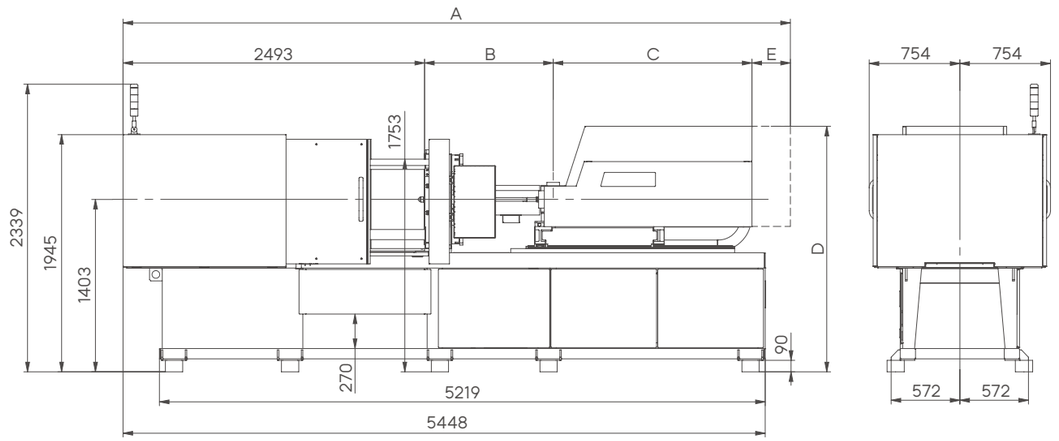
IU	A	B	C
320s	310	Ø3	SR10
500s	310	Ø3	SR10
670s	310	Ø3	SR10

F200S

Description	UNIT	F200S								
Clamping Unit										
Clamping force	kN	2000								
Opening stroke	mm	490								
Space between tie bars	mm	530×530								
Mold thickness	mm	180-550								
Ejector stroke	mm	150								
Ejector force	kN	40								
Ejector number	-	5								
Injection Unit										
Injection model		IU500s			IU670s			IU930s		
International specifications		500			668			934		
		A	B	C	A	B	C	A	B	C
Screw diameter	mm	35	43	48	43	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	4.0	3.5	4.8	4.3	3.9	4.9	4.4	3.9
Shot volume	cm^3	164	247	308	298	371	452	425	518	664
Shot weight (PS)	g	150	227	283	274	341	416	391	477	611
Injection pressure	MPa	302	200	161	224	180	148	219	180	140
Holding pressure	MPa	242	160	128	179	144	118	176	144	112
Injection speed	mm/s	200			160/200			160/200		
Injection rate	g/s	177	267	333	214	266	325	266	325	416
Screw speed	rpm	400			350			320		
Nozzle contact force	kN	40			40			60		
Heating power	kW	9	9	10.1	10.9	10.9	12.1	13.1	13.1	15.4
Total power	kW	58.4			55.7			79.7		
Total current	A	98.5			94			134.6		
General										
Dry cycle	s	2.14								
Oil pump motor	kW	10								
Max. system pressure	Mpa	16								
System flow	L/min	50								
Oil tank capacity	L	106								

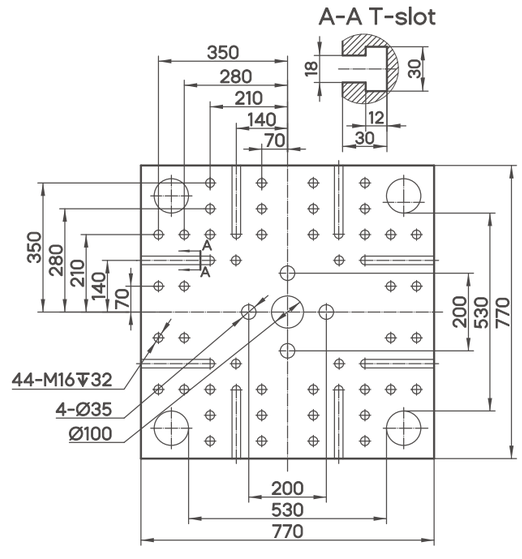
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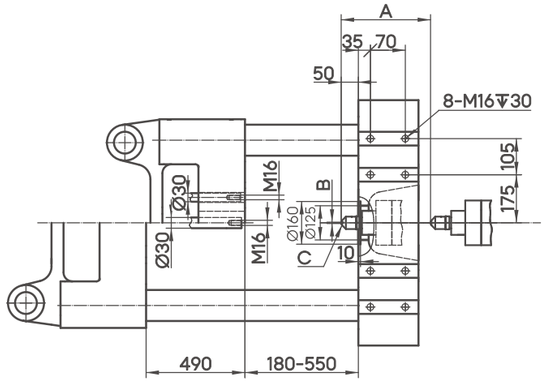
Machine Dimensions



Model	A (A/B/C Screw)	B (A/B/C Screw)	C (A/B/C Screw)	D	E
IU500s	5390/5390/5490	1007/1007/1107	1555	1975	335
IU670s	5668/5668/5768	1106/1106/1206	1734	1965	335
IU930s	5955/5955/6100	1219/1219/1364	1908	1995	335

Platen Dimensions





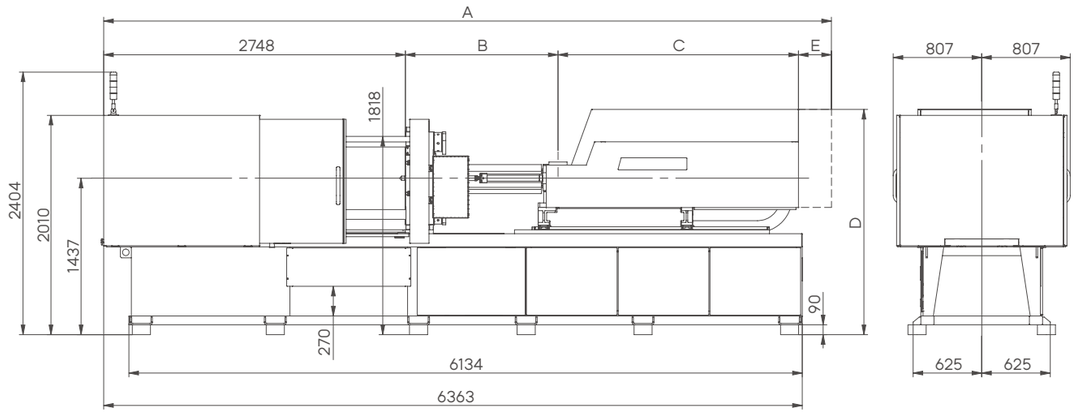
IU	A	B	C
500s	335	Ø3	SR10
670s	335	Ø3	SR10
930s	335	Ø3.5	SR10

F260S

Description	UNIT	F260S								
Clamping Unit										
Clamping force	kN	2600								
Opening stroke	mm	550								
Space between tie bars	mm	610×570								
Mold thickness	mm	195-610								
Ejector stroke	mm	160								
Ejector force	kN	55.6								
Ejector number	-	13								
Injection Unit										
Injection model		IU670s			IU930s			IU1350s		
International specifications		6680			934			1350		
		A	B	C	A	B	C	A	B	C
Screw diameter	mm	43	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	-	4.8	4.3	3.9	4.9	4.4	3.9	5.0	4.4	3.9
Shot volume	cm^3	298	371	452	425	518	664	585	749	962
Shot weight (PS)	g	274	341	416	391	477	611	538	689	885
Injection pressure	MPa	224	180	148	219	180	140	231	180	140
Holding pressure	MPa	179	144	118	176	144	112	185	144	112
Injection speed	mm/s	160/200			160/200			160/200		
Injection rate	g/s	214	266	325	266	325	416	325	416	535
Screw speed	rpm	350			320			300		
Nozzle contact force	kN	40			60			60		
Heating power	kW	10.9	10.9	12.1	13.1	13.1	15.4	16.4	16.4	18.8
Total power	kW	55.7			79.7			97.2		
Total current	A	94			134.6			164.1		
General										
Dry cycle	s	2.38								
Oil pump motor	kW	15								
Max. system pressure	Mpa	17.5								
System flow	L/min	64								
Oil tank capacity	L	106								

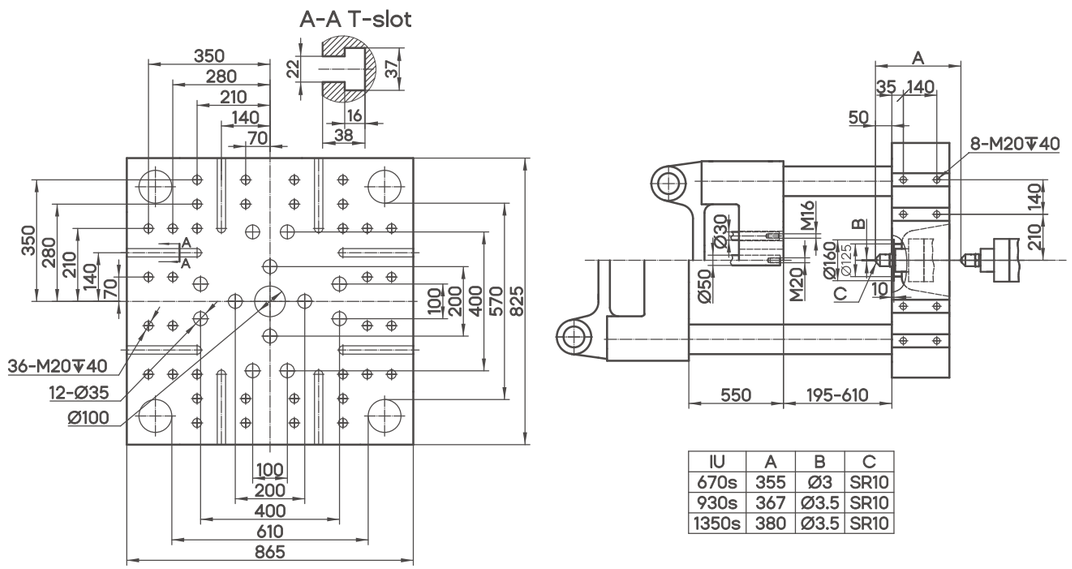
* Data were obtained under specific test conditions; actual performance may vary.
Provided for reference only, not as a commitment.

Machine Dimensions



Model	A (A/B/C Screw)	B (A/B/C Screw)	C (A/B/C Screw)	D	E
IU670s	5946/5946/6046	1106/1106/1206	1734	1999	355
IU930s	6242/6242/6387	1219/1219/1364	1908	2029	367
IU1350s	6709/6709/6870	1390/1390/1551	2191	2064	380

Platen Dimensions



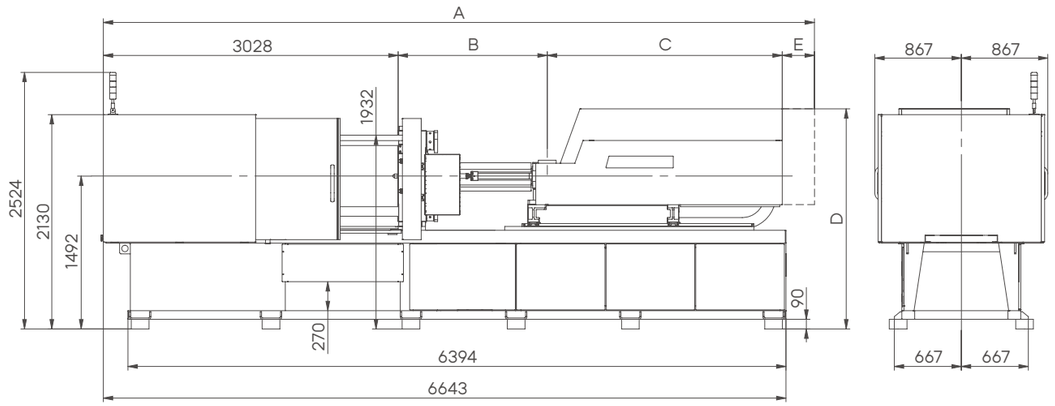
IU	A	B	C
670s	355	Ø3	SR10
930s	367	Ø3.5	SR10
1350s	380	Ø3.5	SR10

F320S

Description	UNIT	F320S								
Clamping Unit										
Clamping force	kN	3200								
Opening stroke	mm	640								
Space between tie bars	mm	680×680								
Mold thickness	mm	220-680								
Ejector stroke	mm	170								
Ejector force	kN	55.6								
Ejector number	-	13								
Injection Unit										
Injection model		IU930s			IU1350s			IU1930s		
International specifications		934			1350			1930		
		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	mm/s	160/200			160/200			160/200		
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	13.1	13.1	15.4	16.4	16.4	18.8	25.3	25.3	28.4
Total power	kW	79.7			97.2			104.1		
Total current	A	134.6			164.1			175.6		
General										
Dry cycle	s	2.56								
Oil pump motor	kW	15								
Max. system pressure	Mpa	17.5								
System flow	L/min	64								
Oil tank capacity	L	106								

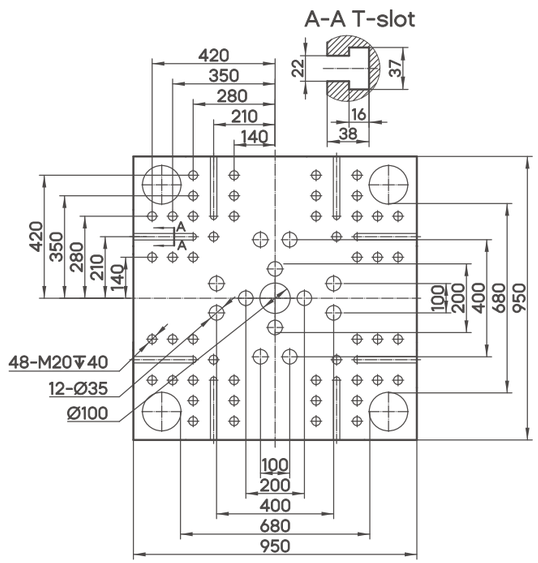
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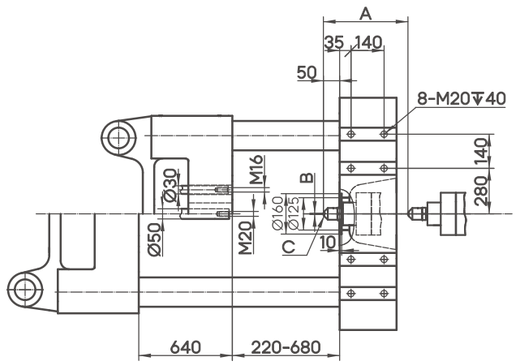
Machine Dimensions



Model	A (A/B/C Screw)	B (A/B/C Screw)	C (A/B/C Screw)	D	E
IU930s	6522/6522/6667	1219/1219/1364	1908	2029	367
IU1350s	7014/7014/7175	1390/1390/1551	2191	2119	405
IU1930s	7013/7013/7188	1565/1565/1740	2040	2270	410

Platen Dimensions





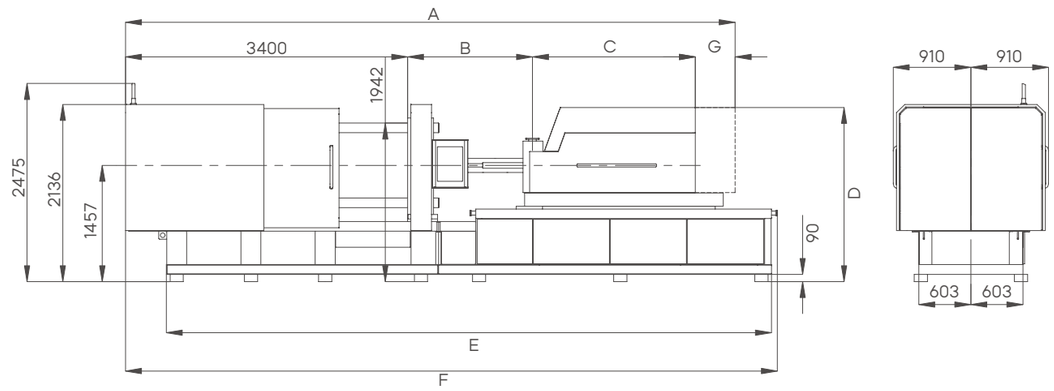
IU	A	B	C
930s	367	Ø3.5	SR10
1350s	405	Ø3.5	SR10
1930s	410	Ø3.5	SR10

F400S

Description	UNIT	F400S								
Clamping Unit										
Clamping force	kN	4000								
Opening stroke	mm	700								
Space between tie bars	mm	730×730								
Mold thickness	mm	240-730								
Ejector stroke	mm	210								
Ejector force	kN	99								
Ejector number	-	13								
Injection Unit										
Injection model		IU1350s			IU1930s			IU2700s		
International specifications		1350			1930			2700		
		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	mm/s	160/200			160/200			160/200		
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	16.4	18.8	25.3	25.3	28.4	26.9	26.9	30.9
Total power	kW	97.2			104.1			119.1		
Total current	A	164.1			175.6			200.7		
General										
Dry cycle	s	2.8								
Oil pump motor	kW	25								
Max. system pressure	Mpa	17.5								
System flow	L/min	126								
Oil tank capacity	L	189								

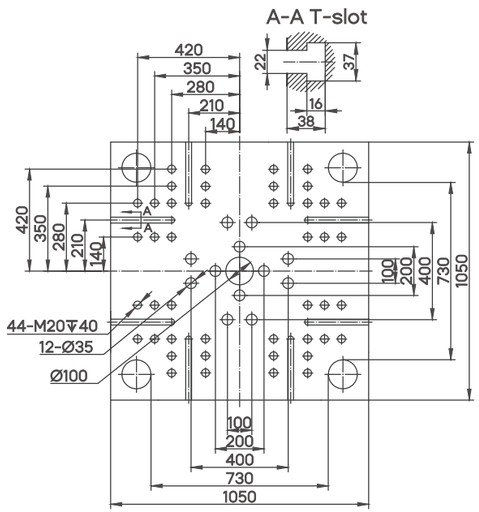
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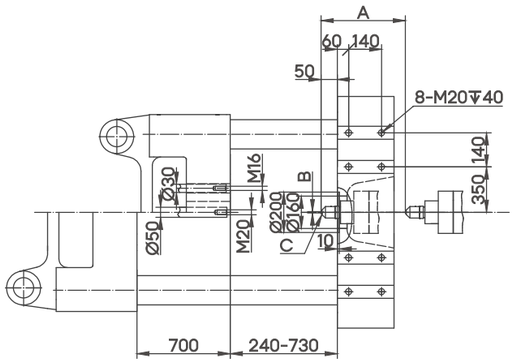
Machine Dimensions



Model	A (A/B/C Screw)	B (A/B/C Screw)	C	D	E	F	G
IU1350s	7439/7439/7599	1391/1391/1551	1835	2072	7055	7642	405
IU1930s	7430/7430/7605	1565/1565/1740	2040	2182	7055	7642	420
IU2700s	7967/7967/8140	1769/1769/1942	2345	2182	7447	8043	420

Platen Dimensions





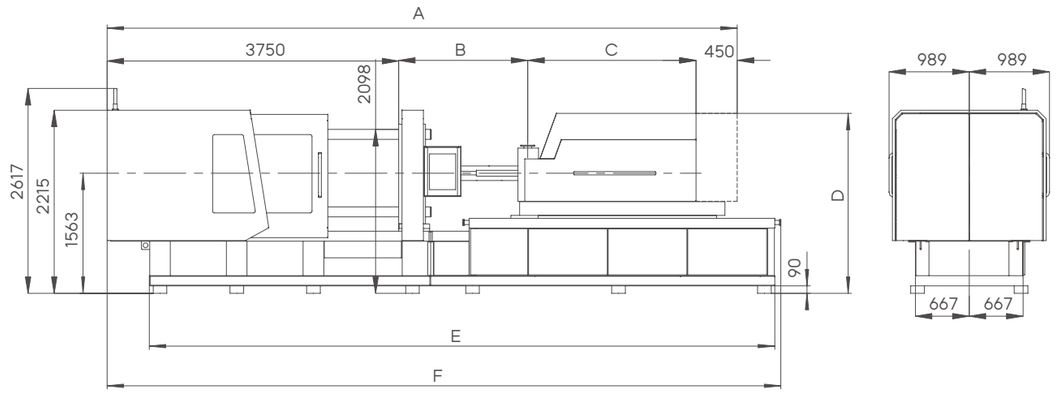
IU	A	B	C
1350s	405	Ø3.5	SR10
1930s	420	Ø3.5	SR10
2700s	420	Ø4	SR15

F480S

Description	UNIT	F480S								
Clamping Unit										
Clamping force	kN	4800								
Opening stroke	mm	780								
Space between tie bars	mm	830×810								
Mold thickness	mm	260-810								
Ejector stroke	mm	220								
Ejector force	kN	99								
Ejector number	-	17								
Injection Unit										
Injection model		IU1930s			IU2700s			IU3700s		
International specifications		1930			2700			3700		
		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	mm/s	160/200			160/200			160/200		
Injection rate	g/s	416	535	668	535	668	816	668	816	979
Screw speed	rpm	250			200			190		
Nozzle contact force	kN	60			100			100		
Heating power	kW	25.3	253	28.4	26.9	26.9	30.9	33.4	33.4	36.2
Total power	kW	104.1			119.1			152.7		
Total current	A	175.6			200.7			257.8		
General										
Dry cycle	s	3.1								
Oil pump motor	kW	25								
Max. system pressure	Mpa	17.5								
System flow	L/min	126								
Oil tank capacity	L	189								

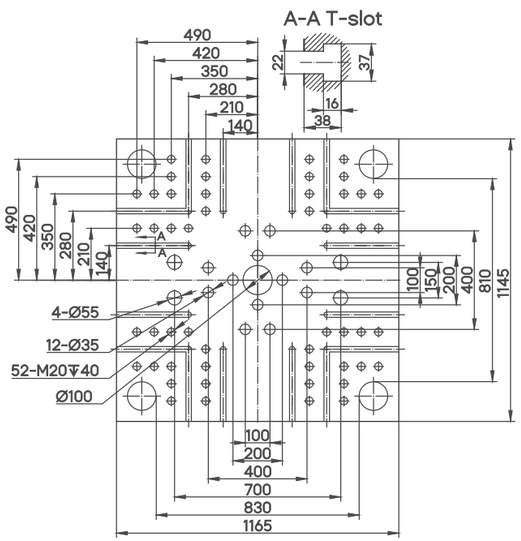
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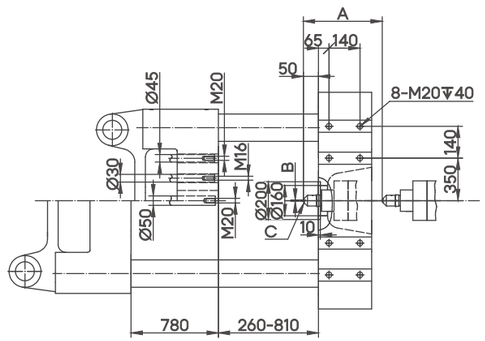
Machine Dimensions



Model	A(A/B/C Screw)	B(A/B/C Screw)	C	D	E	F
IU1930s	7825/7825/8000	1565/1565/1740	2040	2288	7770	8350
IU2700s	8361/8361/8535	1769/1769/1942	2345	2364	8070	8350
IU3700s	8637/8637/8797	1953/1953/2113	2465	2364	8070	8650

Platen Dimensions





IU	A	B	C
1930s	450	Ø3.5	SR10
2700s	450	Ø4	SR15
3700s	450	Ø4	SR15

Standard & Optional Features

	Standard	Optional
Main Unit		
Platen with T-slots and mounting holes	●	
Automatic centralized lubrication system	●	
Hydraulic ejector	●	
EUROMAP 12 interface for robot	●	
5-stage mold opening and closing control	●	
Low pressure mold protection (Ai highly-sensitive mold protection)	●	
Low speed, low pressure mold opening/closing in mold adjustment mode	●	
Injection compression (clamping synchronized with injection)	●	
Ejection during mold closing	●	
Electrical safety device for mold opening and closing	●	
Automatic mold height adjustment	●	
Four selectable ejector backward modes	●	
3-stage ejector backward program control	●	
Ejector backward motion delay	●	
Ejector backward time monitoring	●	
Adjustable ejection origin position	●	
Mold opening during ejector backward	●	
Ejector backward in place confirmation	●	
Mold cooling water distributor	●	
Embedded dual-size locating ring design on the fixed platen	●	
Emergency stop function (on both operator side and non-operator side)	●	
Robot mounting threaded holes	●	
Slope control for mold opening and closing (high, medium and low modes)	●	
Curves of mold opening/closing and ejector	●	
Unscrewing function (2 sets, with time, position, and count control)	●	
Core-pull function (2 sets, with time, position, and count control)	●	
Mechanical interface for electric rotary demolding	●	
Automatic clamping force adjustment	●	
Needle valve/Sprue (4 sets)	●	
Air blow function (4 sets)	●	
Mold adjustment with brake	●	
Compulsory ejector-back function		○
Movable top cover		○
Insulation plate		○
Injection Unit		
Lubrication for injection unit	●	
Injection safety device (test switch)	●	
5-stage injection control	●	
3-stage holding pressure control	●	
3-stage plasticizing control	●	
3-stage back pressure control	●	
Suck-back control (pre-suckback and post-suckback)	●	
Injection/plasticizing delay function (time-controlled)	●	
Holding pressure switching (6 modes)	●	
Injection speed response setting	●	
Multi-stage injection pressure control	●	
Multi-stage holding pressure control	●	
Multi-stage holding speed setting	●	
Multi-stage holding time setting (min. increment: 0.01 s)	●	
Multi-stage screw position setting (accuracy: 0.01 mm)	●	
Multi-stage plasticizing speed setting	●	
Mold opening during plasticizing	●	

	Standard	Optional
Closed-loop molding temperature control	●	
Temperature holding	●	
Temperature optimization	●	
Feeding port temperature display	●	
Synchronized temperature rise	●	
Appointed temperature rise	●	
Simultaneous heating function	●	
Remaining resin prevention	●	
Screw cold start prevention	●	
Automatic purging	●	
Calibration of injection pressure zero point	●	
Real-time display of plasticizing speed	●	
Real-time display of plasticizing back pressure	●	
Barrel heat-retaining energy-saving device	●	
Chrome-plated plasticizing components	●	
Injection nozzle guard	●	
Injection screw drive	●	
Movable hopper slide rail	●	
Stainless steel hopper	●	
Feeding port temperature control		○
Swiveling injection unit		○
Dedicated barrel unit		○
Spring shut-off nozzle		○
Extended nozzle		○
Ceramic heater band		○
Hydraulic System		
Core-pull interface	●	
Built-in hydraulic pump station	●	
Cable hose restraint for HP hydraulic hose	●	
One hydraulic core-pull circuit on the movable platen	●	
Electrical System		
3-phase power socket (2×32A+16A)	●	
One 220 V power outlet (one additional outlet reserved)	●	
Rear-door emergency stop switch	●	
Reserved robot interface on machine cover	●	
Protective routing for injection unit control wiring	●	
Protective routing for clamping unit control wiring	●	
Reserved interface for rear-mounted control box	●	
General		
Manifold	●	
Safety switches and protective devices	●	
Closed safety door	●	
Adjustable leveling pad	●	
Reserved power outlets (220 V/380 V)	●	
Hopper sliding device	●	
A tool kit	●	
Mold clamp		○
Auxiliary power box		○
Vacuum extractor		○
Glass-tube water flowmeter		○
Additional cooling water circuit		○

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