

WE WALK ALONGSIDE THE WORLD

Stock Code: 300415

YIZUMI伊之密

Designed by Yizumi, April 2021.

D1

**D1 Series Two-platen
Injection Molding Machine
(500T-3400T)**

Innovative Practice of
Large-tonnage Two-platen Machine

广东伊之密精密注压科技有限公司

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1.We reserve the right to change specifications without prior notice.
2.The pictures are only for reference, please refer to the real object.
3.Data above come from Yizumi lab, available for reference.



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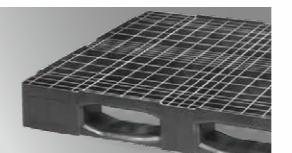
Based on importation and absorption of advanced German technology and years of experience in product application, we continue to move on and undertake the historic project of large-tonnage two-platen injection molding machine, striving to become a pioneer to fulfill such an innovative mission.



Deep-cavity parts



Household appliances



Logistics materials



Auto parts



Auto bumper



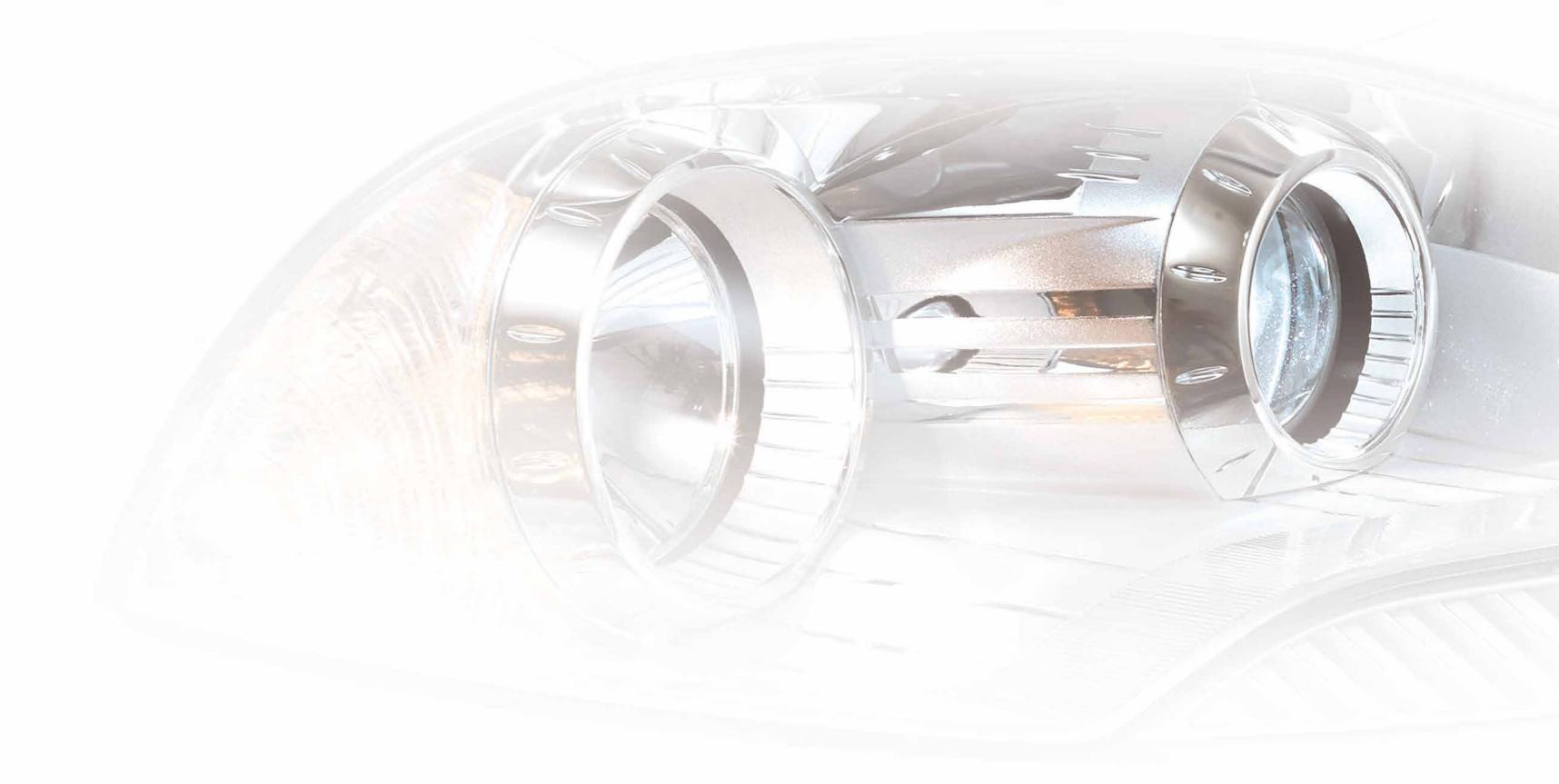
Auto sunroof



Auto interior decoration



Auto lamp



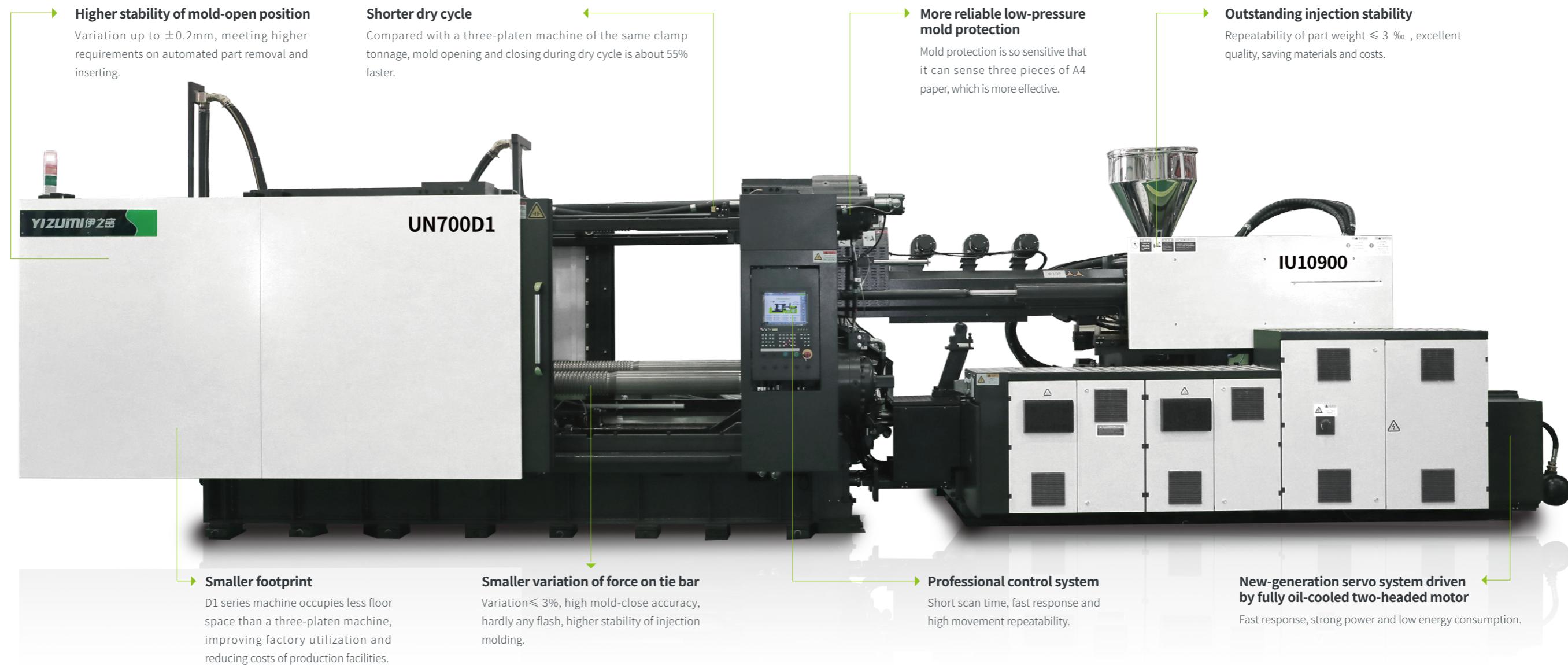
Core Value Propositions

Fast

Synchronized lock nut mechanism, precision movable platen supports, quick hydraulic cylinders, differential fast mold opening, low-resistance hydraulic circuit design and high-response servo system enable the machine to operate more efficiently and response faster.

Stable

High-rigidity clamping unit, uniform stress distribution on tie bar threads, high-response dual proportional valve, high-speed closed-loop control, precision filter and efficient cooling system enable the machine to be more stable for injection molding.



※Data above come from Yizumi lab, available for reference.

Clamping Unit

Short dry cycle, reliable and stable

D1 series two-platen injection molding machine, based on high-rigidity clamping unit, precision guide device, synchronized lock nut mechanism, quick hydraulic cylinders, fast control system and controlled by high-response dual proportional valve, delivers higher movement efficiency and control stability.



① Impact-proof synchronized lock nut mechanism

Impact-cushioning synchronized lock nut closing is fast and more reliable.

③ Highly-rigid accurate guide device

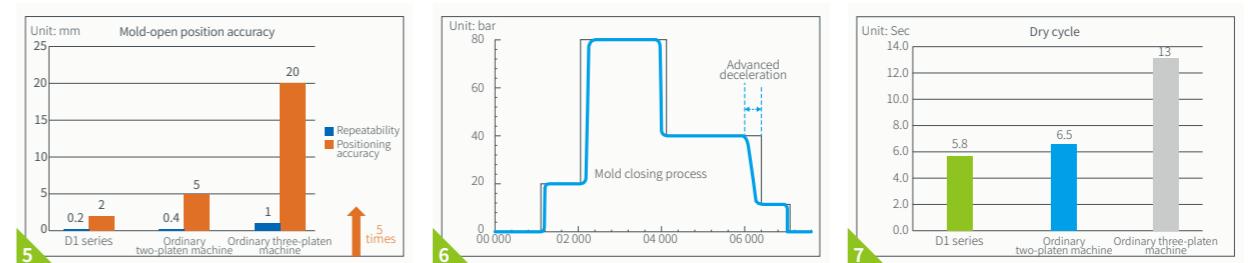
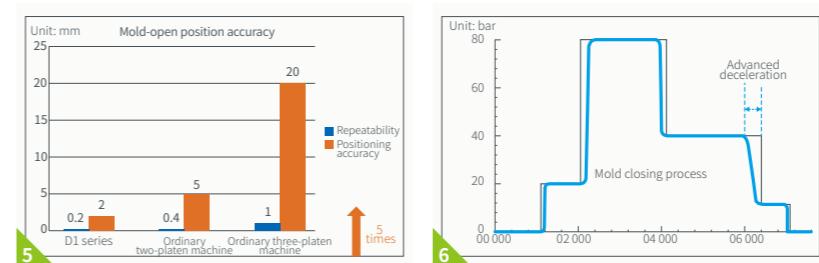
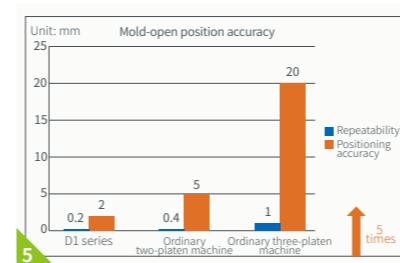
High-rigidity L-shape guide rails on machine frame, with guiding precision up to 0.05mm, facilitate fast and steady motion of platens.

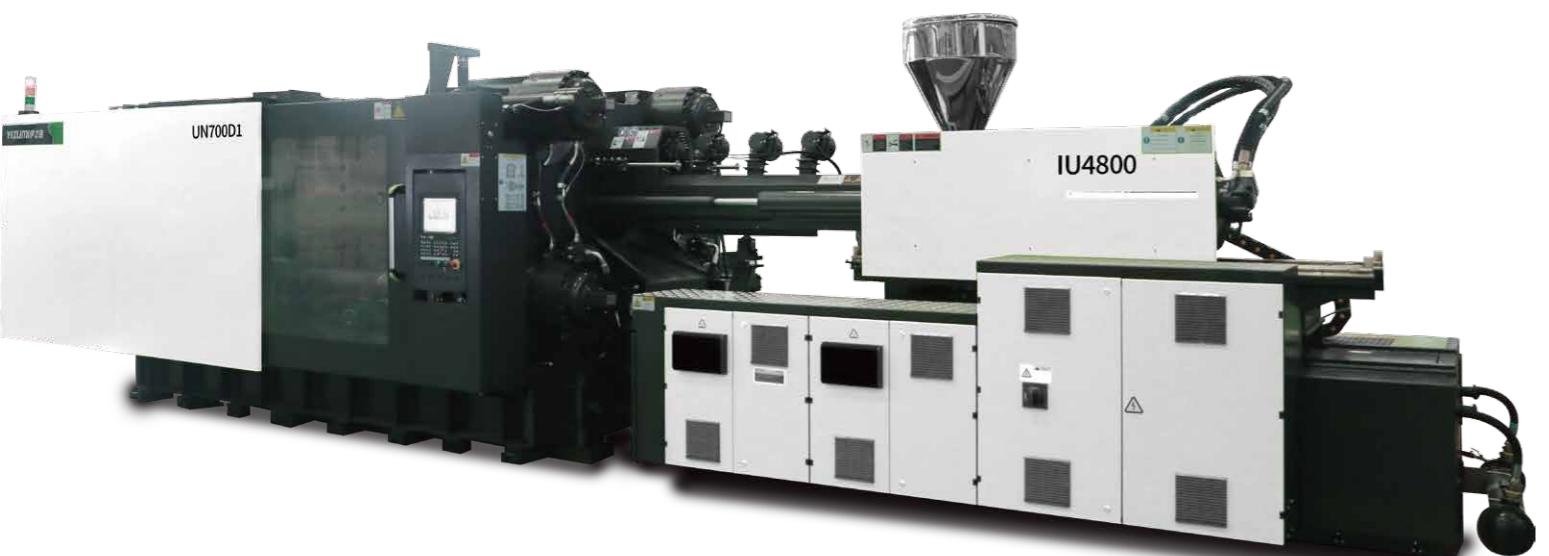
⑤ High repeatability of mold-open end position

Repeatability of mold-open position is up to $\pm 0.2\text{mm}$, five times higher than that of a three-platen machine. (proven by in-house 1300T machine test result)

⑦ Short dry cycle

Efficient mold opening and closing and short dry cycle directly improve manufacturing efficiency and capacity. (proven by in-house 1300T machine test result)





Injection Unit

Stable injection end position and high repeatability of part weight

Linear guide rails, with the benefits of low resistance and quick acceleration, are a standard feature of D1 series two-platen injection molding machine. Incorporating other features, such as high-rigidity injection unit and ultrasonic displacement sensor for monitoring, D1 series has achieved accurate position control and high repeatability of part weight.

① High-rigidity injection unit

Casts of injection unit are made from ductile cast iron. The platens are highly rigid with little deformation. Injection is more stable.

③ Integral linear guide rails for injection

Linear guide rails are a standard feature of D1 series, bringing benefits of low resistance, quick acceleration and accurate injection.

⑤ Adaptive PID temperature control

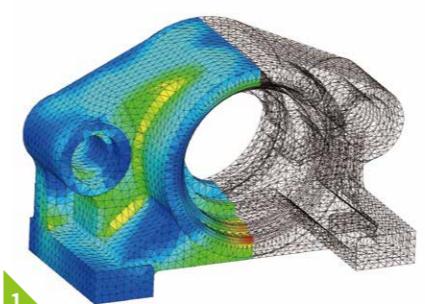
With the use of durable ceramic heater bands and adaptive PID control performed by the Austrian controller, temperature control accuracy is up to $\pm 0.5^{\circ}\text{C}$.

② Excellent injection performance

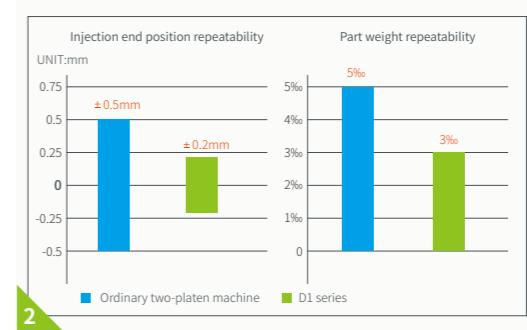
Repeatability of injection end position up to $\pm 0.2\text{mm}$ and repeatability of part weight $\leq 3\%$ meet the needs of increasing efficiency and lowering costs.

④ Ultrasonic displacement sensor

D1 series is equipped with an ultrasonic digital displacement sensor, characterized by little signal interference and high position control accuracy.



1



2



3



4



5

Hydraulic System

Precise filtration, efficient cooling, higher stability

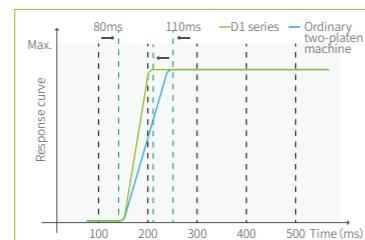
D1 series is based on a hydraulic system with stability and fast response at the core, which enables hydraulic circuit to be in optimal operating conditions. The hydraulic system is characterized by fast response, strong overload capacity and low energy consumption that is superior to China energy efficiency grade 1.

① Servo system driven by fully oil-cooled two-headed motor

The fully oil-cooled two-headed motor-driven servo system is the quintessence of highly-integrated servo pump system. It eliminates the influence of instability in machine operation due to the work environment and further reduces energy consumption of hydraulic circuit. Synchronized drive technology makes hydraulic circuit response faster and movements more efficient.



● Strong overload capacity



● Rapid acceleration



● Durable and reliable

② Precise filtration and independent cooling system

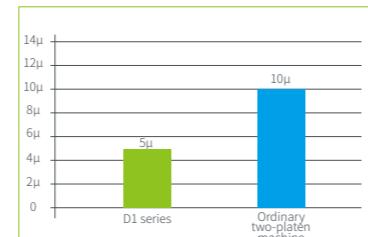
Filter fineness is up to 5μm and cooling effect is 2-3 times better than ordinary two-platen injection molding machines, which ensure long service life of seals. Machine becomes more stable.



● Good cooling effect



● High filter fineness



● Comparison of filter fineness



③ Motor protected with L-shape plates

L-shape plates are easy to install and they can be opened directly so that there is open space for more efficient maintenance of the drive system.



Control System

Accurate control, humanized design, reliable and stable

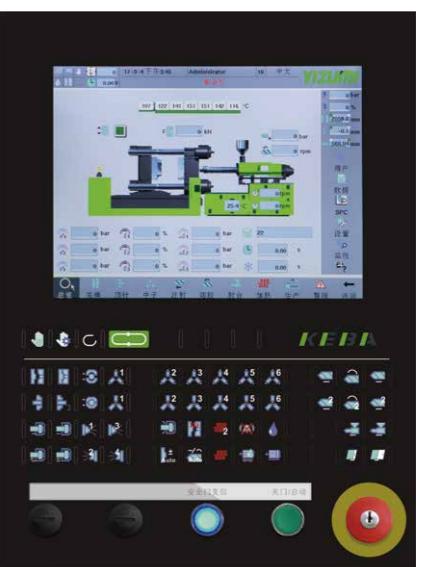
D1 series adopts Austria's KEBA control system dedicated to two-platen injection molding machine. This powerful system can accurately control the position, pressure, speed, temperature and other parameters. The whole control system is engineered based on reliability, stability, safety and user-friendly operation for better user experience.

● Stable, fast and accurate control

- D1 series two-platen injection molding machine adopts Austria's KEBA control system, with double CPUs, 1ms of scan cycle and high reliability.
- Fast mold opening and closing and high repeatability thanks to the high-response dual proportional valve control technology.
- Fully-closed-loop control of injection speed, pressure and back pressure, with fast response and high accuracy.
- Self-tuning of temperature parameters of barrel and hot runner makes temperature control more accurate.

● Data and safety

- Storage of process data without limit
- Memory of alarm and process parameter change
- Record of process parameter change curve
- Production process data control (PDP) and statistic process control (SPC)
- Multi-level user access to protect data
- Multiple protections of equipment and people through software and hardware



● Easy to operate

- Real-time remote control (optional)
- Online conversion of languages and units
- Quick input by means of graph and virtual keyboard
- Quick settings page for easy and convenient process parameter setting



① IP54 electrical enclosure

The electrical enclosure is designed with IP54 rating, resistance to water and dust and good cooling effect, so that the electrical system is more stable in operation.



② Separate connector module for auxiliary equipment

External separate power control without opening the electrical cabinet makes operation safer and more convenient.



③ Euromap-based robot interface

Euromap 12 robot interface is a standard feature, meeting customer's need for safer connection.

MultiPro Injection Molding Solution

Modular design, free combination as needed

Based on professional technology, different injection units can be combined to inject different materials for plastic parts. With Yizumi MultiPro process, a new product made from various materials can be produced via an injection molding machine and a production step. MultiPro has become an innovation in the field of high-end multi-component injection molding.



① Integrated turntable

The integrated turntable with high rigidity, high load-bearing capacity and compact structure can be equipped with large-capacity, multi-channel swiveling water, oil and gas distribution system.

② Automatic flow distribution system

Based on German technology, the three-in-one (water, oil and gas) distribution system is designed with a double-layer structure for water-oil separation. The turntable can rotate 360 degrees without the tangle of lines to meet the rotation needs of multiple stations.

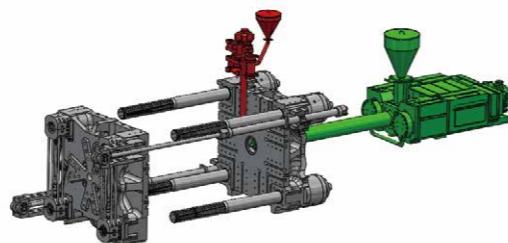
③ Parallel injection unit

The nozzle center distance is adjustable (optional) with high compatibility. The injection structure with a single well-sealed cylinder has high injection speed.

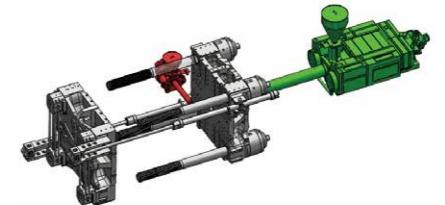
④ Digital closed-loop positioning control technology

The DCPC technology enables the servo-driven turntable to rotate fast and smoothly without impact. The positioning of turntable is accurate with repeatability of $\pm 0.005^\circ$.

Modular Combinations of Multi-component Injection Units

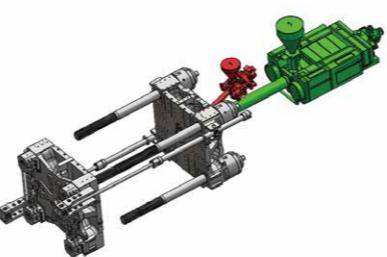


H/V combination: suitable for production of multi-component parts with low shot weight
Main injection unit provides power support for V-arranged injection unit, matching with the standard machine.

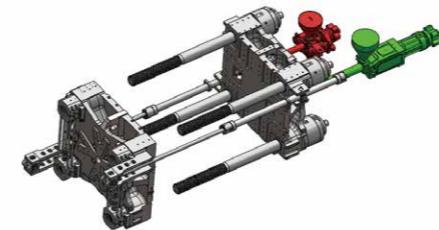


H/L combination: flexible application but large footprint

L-arranged injection unit can be matched with independent injection unit for power support.



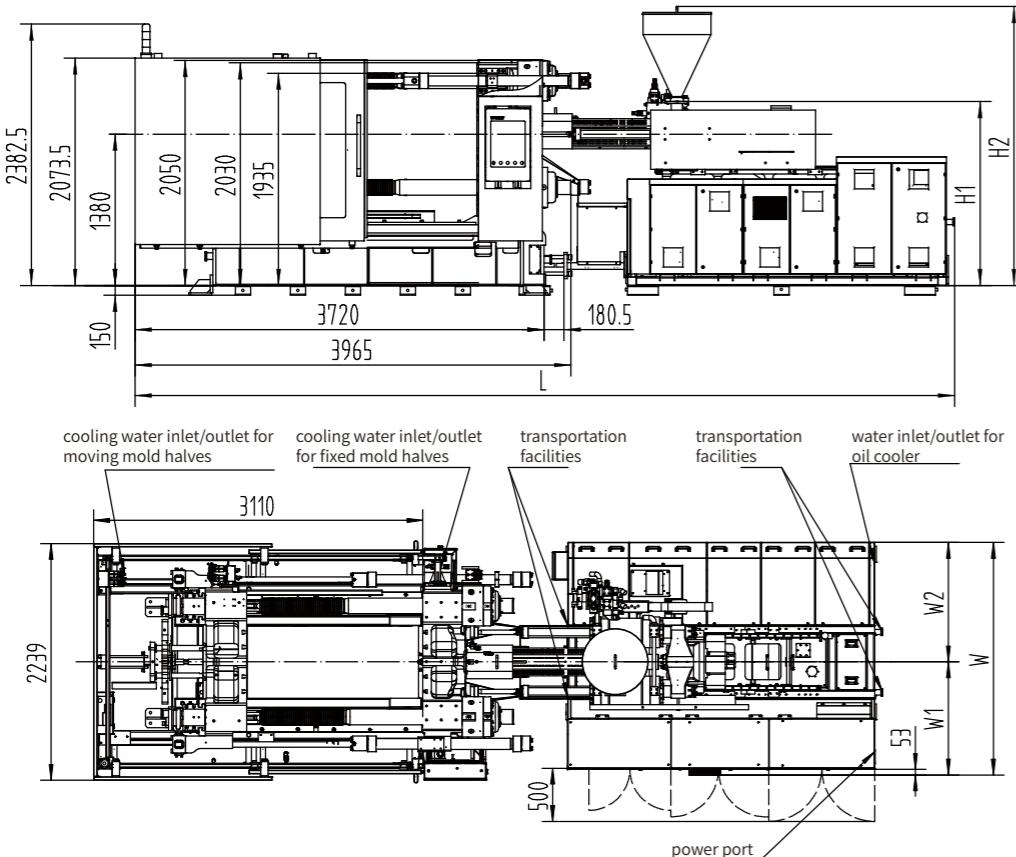
H/W combination: suitable for production of multi-component parts with high space-saving requirements



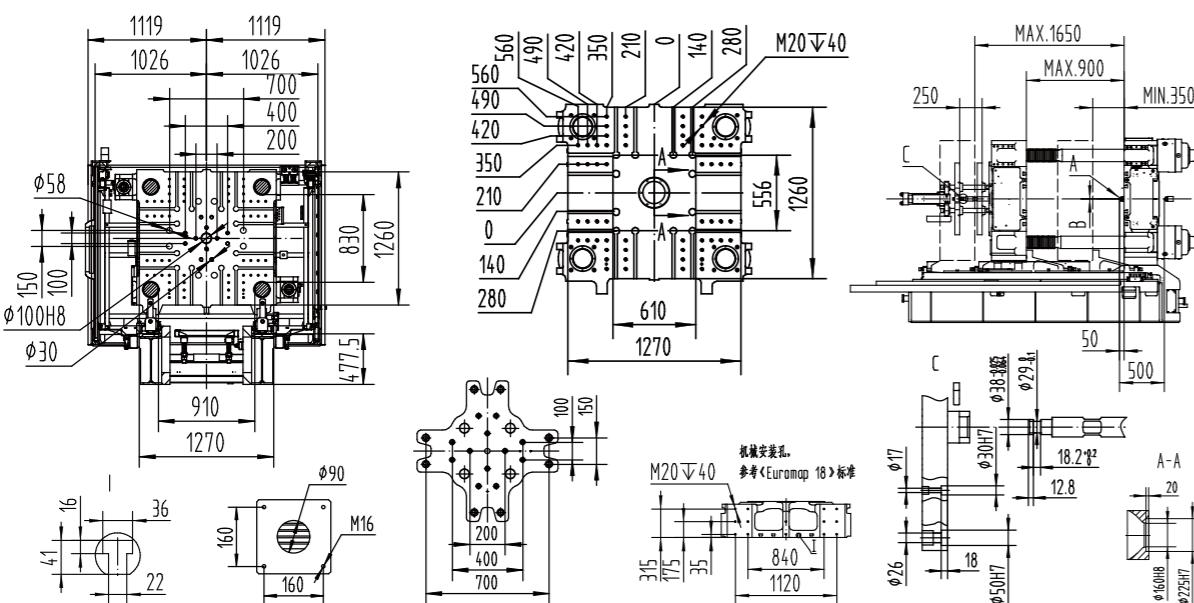
H/P combination: suitable for shot nozzle distance, with adjustable nozzle center distance

Note: The H injection units above are horizontal main injection units.

UN500D1 Machine Dimensions



UN500D1 Platen Dimensions



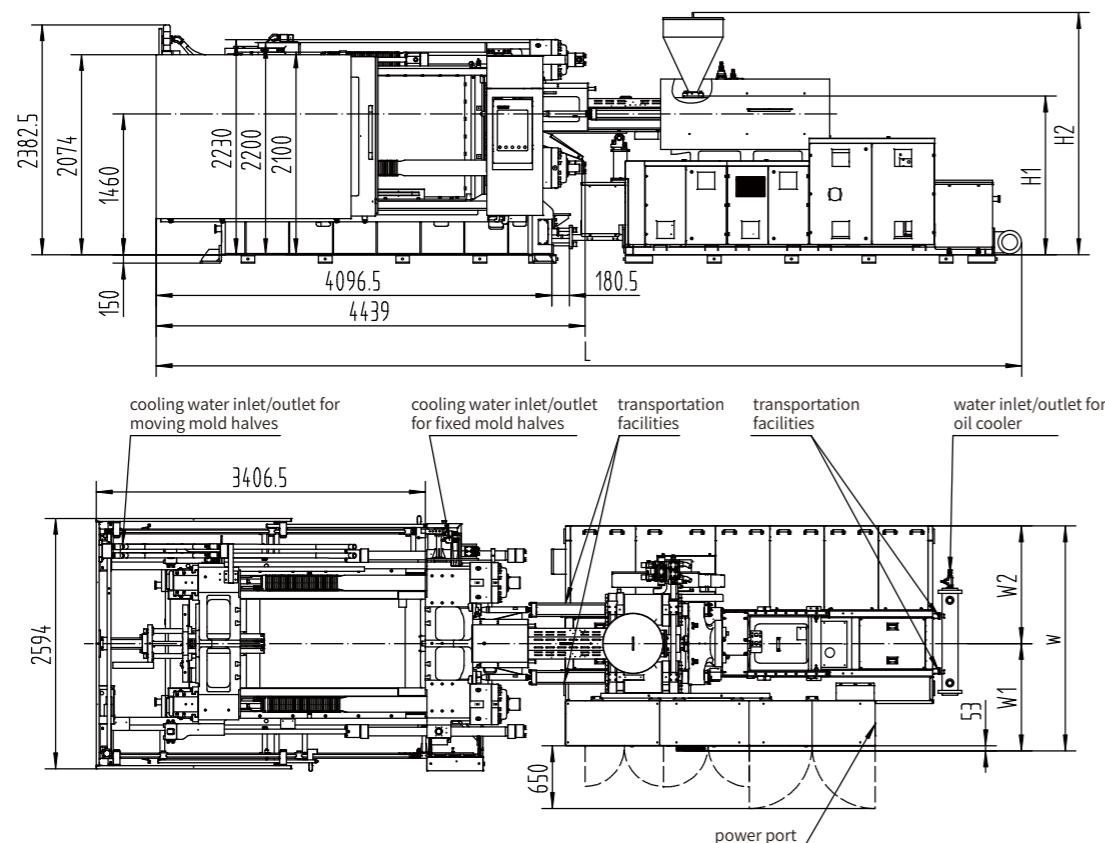
Model	A	B	L	H1	H2	W	W1	W2	Main power cord size	Full-load current	Bearing capacity of foundation	Mold cooling water ports	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
UN500D1-IU1885	mm	mm ²	A	t/m ²	n×L/min	L/min	bar	bar							
UN500D1-IU2695	SR10	Φ3.5	7456	1617	2360	2198	1063	1135	70	161.46	7.5	(8+8)×11	150	3~4	5~6
UN500D1-IU3330	SR15	Φ4	7456	1677	2542	2198	1063	1135	70	176.74	7.5	(8+8)×11	150	3~4	5~6
UN500D1-IU4800	SR15	Φ4.5	8580	1565	2430	2333	1113	1220	70	215.49	7.5	(8+8)×11	150	3~4	5~6

UN500D1 Specifications

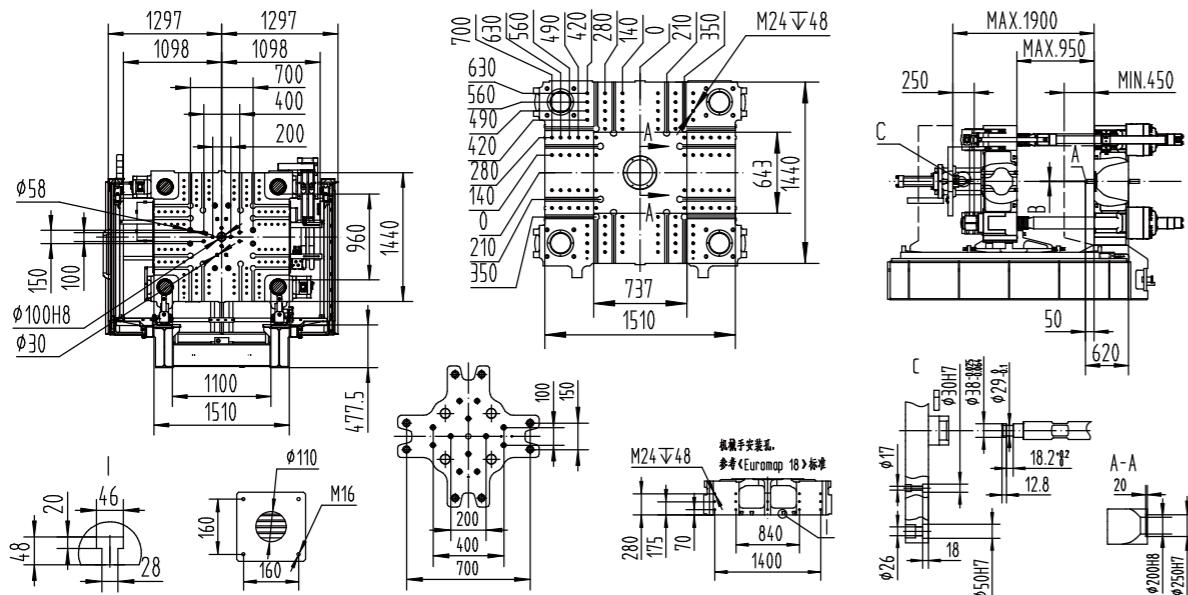
Model	Injection Unit				Clamping Unit				Power unit				General				
	IU1885	IU2695	IU3330	IU4800	Clamping force (kN)	Opening force (kN)	Platen size (mm)	Space between tie bars (mm)	System pressure (MPa)	17.5/30	17.5/30	17.5/30	17.5/30	Oil tank capacity (L)	750	750	1000
Screw diameter (mm)	60	68	76	68	5000	390	1270×1260	910×830	17.5/30	60+5.5	60+5.5	60+5.5	66+5.5	650	750	1000	
Shot volume (cm ³)	834	1071	1338	1198	1198	1497	1829	1678	2050	2460	2217	2659	3142	3664	600	750	1000
Shot weight (g)	767	986	1231	1103	1377	1683	1544	1886	2263	2039	2446	2890	3371	350	400	500	
Injection pressure (MPa)	226	176	141	225	180	147	199	162	136	218	181	154	134	150	180	210	
L/D ratio	22.6	20	20	22.3	20	20	22.1	20	20	21.9	20	21.6	20	20	25	30	
Injection rate (cm ³ /s)	322	414	517	383	478	584	430	526	632	516	619	730	853	93.9	100	110	
Max.injection speed (mm/s)				114		105											
Screw stroke (mm)				295		330											
Max.screw speed (r/min)				250		184											
Barrel heating zone (PCS)				5		6											

- Opening force refers to mold opening force generated during high-pressure mold open.
- In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to opening stroke with maximum mold height.
- Mold-bearing capacity of the movable platen is 2/3 of total mold weight.
- The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
- Three kinds of screws are available for each model and the medium one is standard on the machine.
- The injection unit data are in international units and calculated as follows: theoretical shot volume [cm³] × injection pressure (MPa)/100
- The green figures are standard specifications of clamping unit and injection unit.
- Because of constant technical improvement, the machine specifications are subject to change without notice.

UN700D1 Machine Dimensions



UN700D1 Platen Dimensions



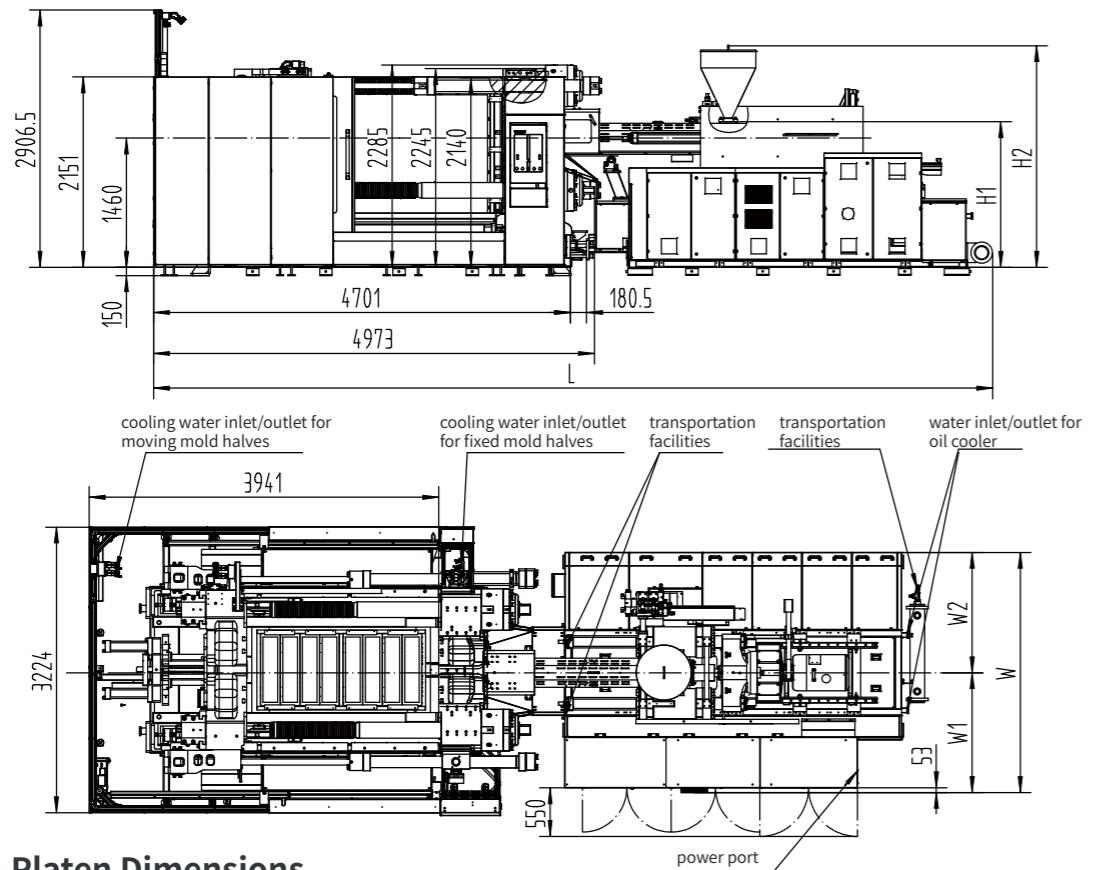
Model	A	B	L	H1	H2	W	W1	W2	Main power cord size	Full-load current	Bearing capacity of foundation	Mold cooling water ports	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
	mm	mm ²	A	t/m ²	n×L/min	L/min	bar	bar							
UN700D1-IU2695	SR15	Φ4	7833	1757	2622	2198	1063	1135	70	176.74	7.5	(8+8)×11	150	3~4	5~6
UN700D1-IU3330	SR15	Φ4	7833	1635	2500	2198	1063	1135	70	186.89	7.5	(8+8)×11	150	3~4	5~6
UN700D1-IU4800	SR15	Φ4.5	8957	1645	2510	2333	1113	1220	70	215.49	7.5	(8+8)×11	150	3~4	5~6
UN700D1-IU6800	SR15	Φ4.5	8957	1645	2510	2711	1352	1359	75	259.84	7.5	(8+8)×11	150	3~4	5~6

UN700D1 Specifications

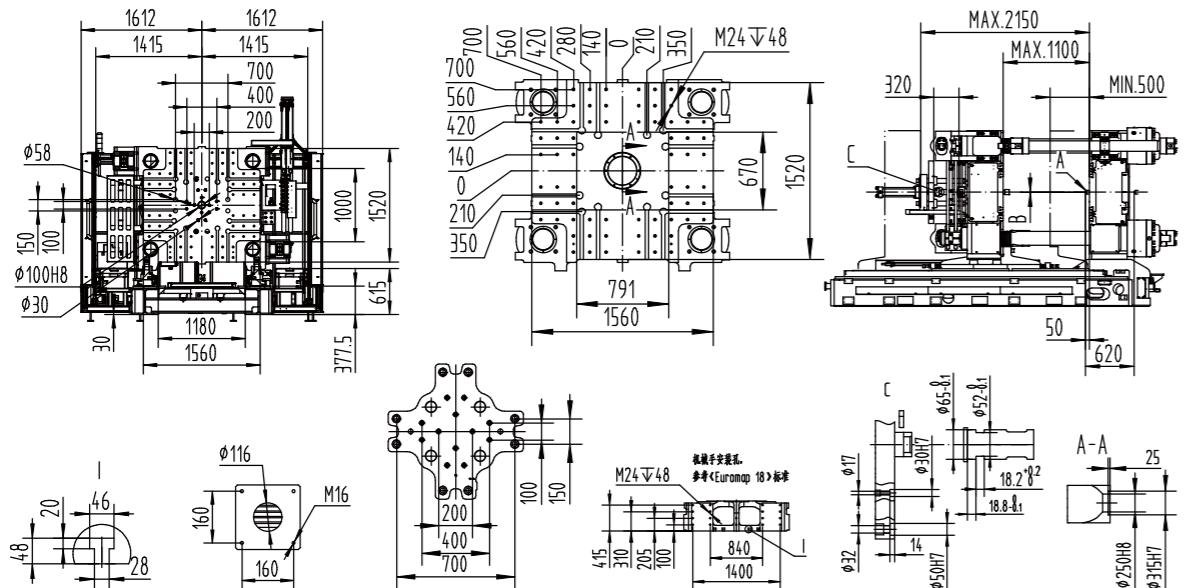
Injection Unit																							
Model	IU2695			IU3330			IU4800				IU6800												
Screw diameter (mm)	68	76	84	76	84	92	84	92	100	108	92	100	108	116									
Shot volume (cm³)	1198	1497	1829	1678	2050	2460	2217	2659	3142	3664	3191	3770	4397	5073									
Shot weight (g)	1103	1377	1683	1544	1886	2263	2039	2446	2890	3371	2936	3468	4045	4667									
Injection pressure (MPa)	225	180	147	199	162	136	218	181	154	134	213	180	154	134									
L/D ratio	22.3	20	20	22.1	20	20	21.9	20	21.6	20	21.7	22	21.5	20									
Injection rate (cm³/s)	383	478	584	430	526	632	516	619	730	853	615	726	847	980									
Max.injection speed (mm/s)	105			95			93.9				92.5												
Screw stroke (mm)	330			370			400				480												
Max.screw speed (r/min)	184			147			154				145												
Barrel heating zone (PCS)	6			6			6				7												
Clamping Unit																							
Clamping force (kN)	7000																						
Opening force (kN)	500																						
Platen size (mm)	1510×1440																						
Space between tie bars (mm)	1100×960																						
Max. mold thickness (mm)	950																						
Min. mold thickness (mm)	450																						
Opening stroke (mm)	1450/950																						
Max. daylight (mm)	1900																						
Ejector force (kN)	110																						
Ejector stroke (mm)	250																						
Ejector number (PCS)	21																						
Power unit																							
System pressure (MPa)	17.5/30			17.5/30			17.5/30				17.5/30												
Pump motor (kW)	60+5.5			60+5.5			66+5.5				89+7.5												
Total power (kW)	91.9	91.9	96.4	98.6	98.6	101.7	108.6	108.6	118.5	118.5	143.5	143.5	153.1	153.1									
Heater power (kW)	26.4	26.4	30.9	33.1	33.1	36.2	37.14	37.14	47	47	47	47	56.6	56.6									
General																							
Oil tank capacity (L)	750			750			1000				1150												
Machine dimensions (m)	7.9×2.6×2.7			7.9×2.6×2.5			9×2.6×2.5				9×2.7×2.5												
Max. mold weight (T)	11			11			11				11												

1. Opening force refers to mold opening force generated during high-pressure mold open.
 2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to opening stroke with maximum mold height.
 3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.
 4. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
 5. Three kinds of screws are available for each model and the medium one is standard on the machine.
 6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm³] × injection pressure (MPa)/100
 7. The green figures are standard specifications of clamping unit and injection unit.
 8. Because of constant technical improvement, the machine specifications are subject to change without notice.

UN900D1 Machine Dimensions



UN900D1 Platen Dimensions



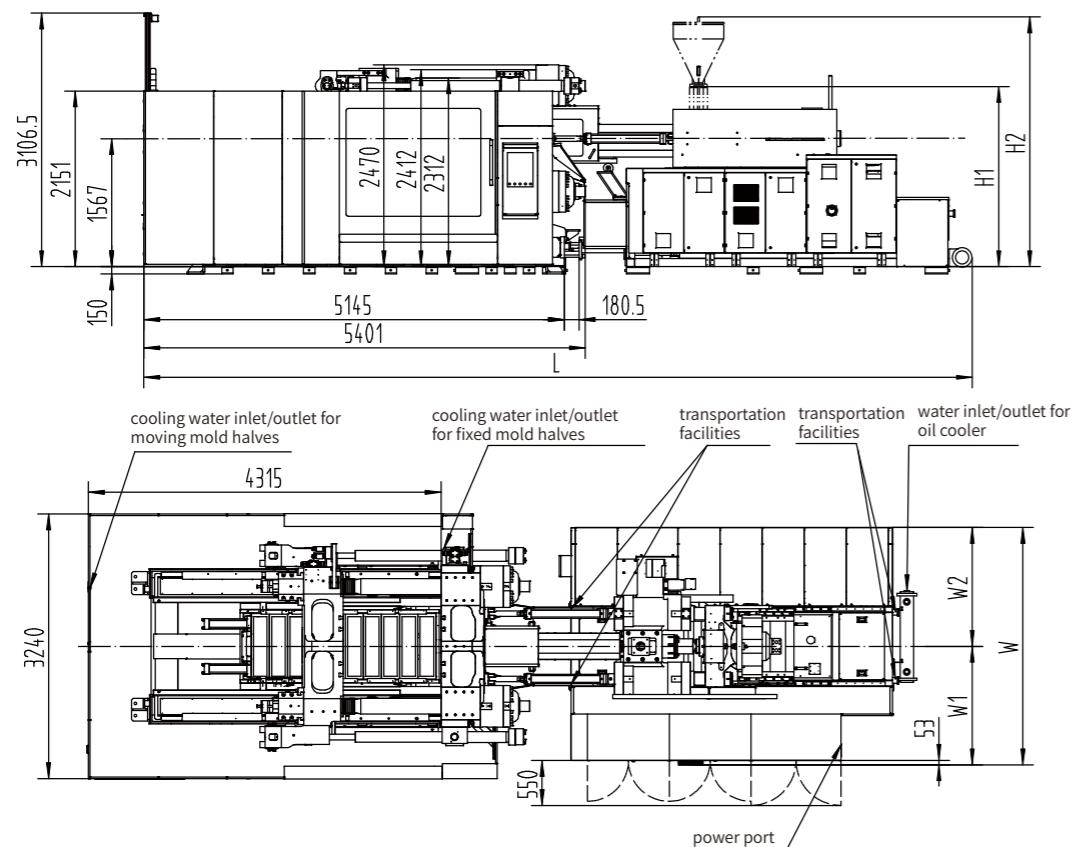
Model	A	B	L	H1	H2	W	W1	W2	Main power cord size	Full-load current	Bearing capacity of foundation	Mold cooling water ports	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
	mm	mm	mm ²	A	t/m ²	n×L/min	L/min	bar	bar						
UN900D1-IU4800	SR15	Φ4.5	9461	1645	2510	2333	1113	1220	70	215.49	7.5	(8+8)×11	150	3~4	5~6
UN900D1-IU6800	SR15	Φ4.5	9461	1645	2510	2711	1352	1359	75	259.84	7.5	(8+8)×11	150	3~4	5~6
UN900D1-IU9000	SR15	Φ4.5	9591	2029	2871	2906	1450.51455.5	95	316.71	7.5	(8+8)×11	150	3~4	5~6	

UN900D1 Specifications

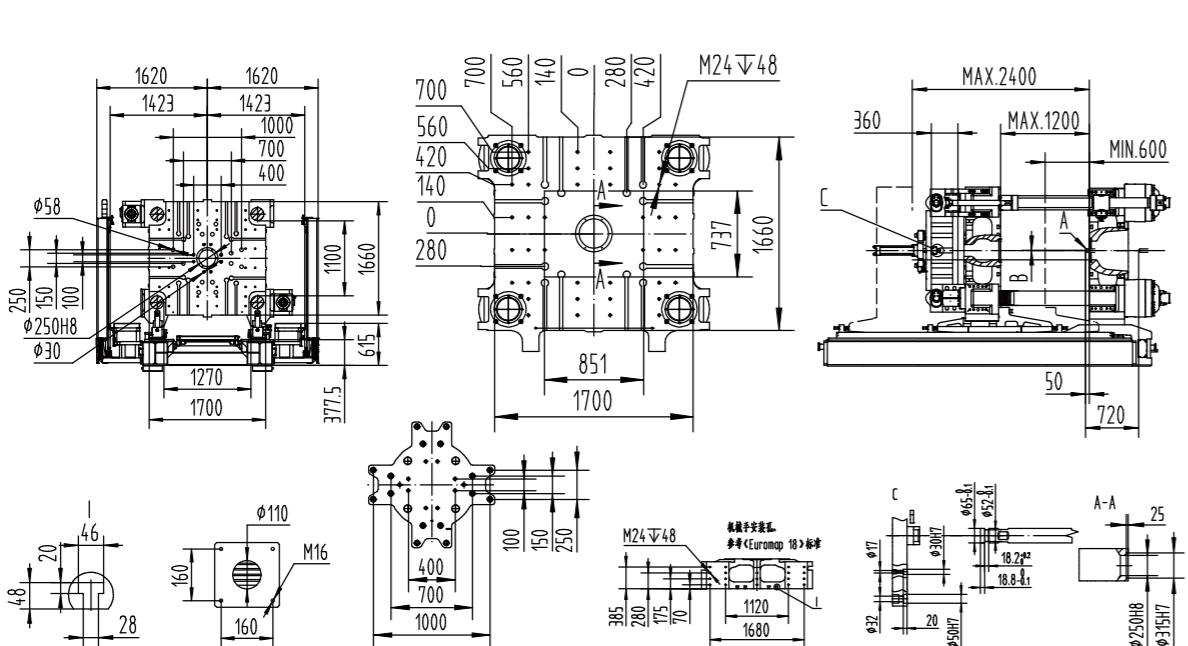
Injection Unit																				
Model	IU4800				IU6800				IU9000											
Screw diameter (mm)	84	92	100	108	92	100	108	116	100	108	116	125								
Shot volume (cm³)	2217	2659	3142	3664	3191	3770	4397	5073	4320	5038	5813	6748								
Shot weight (g)	2039	2446	2890	3371	2936	3468	4045	4667	3974	4636	5348	6208								
Injection pressure (MPa)	218	181	154	134	213	180	154	134	209	179	155	134								
L/D ratio	21.9	20	21.6	20	21.7	22	21.5	20	21.6	20	21.6	20								
Injection rate (cm³/s)	516	619	730	853	615	726	847	980	766	894	1031	1197								
Max.injection speed (mm/s)	93.9				92.5				97.6											
Screw stroke (mm)	400				480				550											
Max.screw speed (r/min)	154				145				128											
Barrel heating zone (PCS)	6				7				7											
Clamping Unit																				
Clamping force (kN)	9000																			
Opening force (kN)	640																			
Platen size (mm)	1560×1520																			
Space between tie bars (mm)	1180×1000																			
Max. mold thickness (mm)	1100																			
Min. mold thickness (mm)	500																			
Opening stroke (mm)	1650/1050																			
Max. daylight (mm)	2150																			
Ejector force (KN)	220																			
Ejector stroke (mm)	320																			
Ejector number (PCS)	21																			
Power unit																				
System pressure (MPa)	17.5/30				17.5/30				17.5/30											
Pump motor (kW)	66+7.5				89+7.5				110+7.5											
Total power (kW)	110.6	110.6	120.5	120.5	143.5	143.5	153.1	153.1	169.3	169.3	178.4	178.4								
Heater power (kW)	37.14	37.14	47	47	47	47	56.6	56.6	51.76	51.76	60.9	60.9								
General																				
Oil tank capacity (L)	1000				1150				1400											
Machine dimensions (m)	9.5×3.3×2.9				9.5×3.3×2.9				9.6×3.3×2.9											
Max. mold weight (T)	13				13				13											

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UN1100D1 Machine Dimensions



UN1100D1 Platen Dimensions



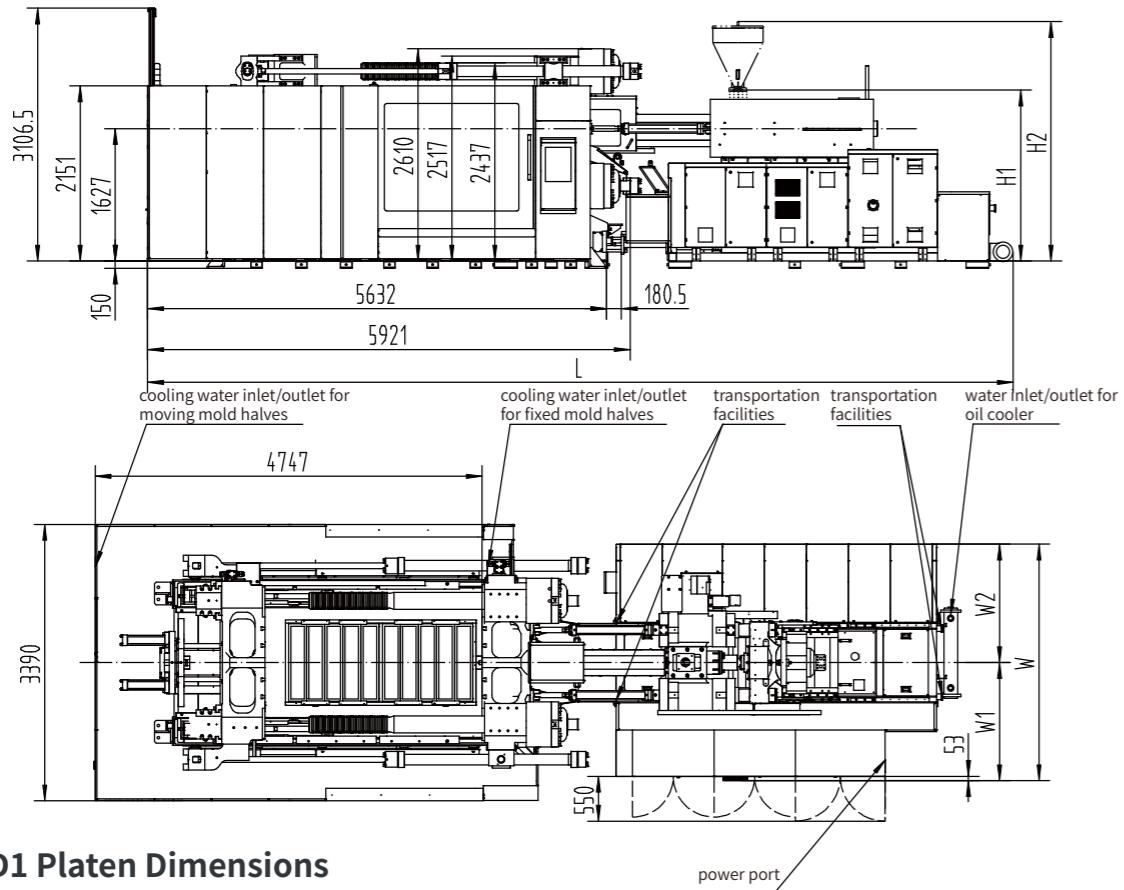
Model	A	B	L	H1	H2	W	W1	W2	Main power cord size	Full-load current	Bearing capacity of foundation	Mold cooling water ports	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
	mm	mm	mm	mm	mm	mm	mm	mm	mm ²	A	t/m ²	n×L/min	L/min	bar	bar
UN1100D1-IU4800	SR15	Φ4.5	10004	1752	2617	2333	1113	1220	70	215.49	8	(8+8)×11	150	3~4	5~6
UN1100D1-IU6800	SR15	Φ4.5	10004	1752	2617	2711	1352	1359	75	259.84	8	(8+8)×11	150	3~4	5~6
UN1100D1-IU9000	SR15	Φ4.5	10134	2136	2978	2906	1450.5	1455.5	95	316.71	8	(8+8)×11	150	3~4	5~6
UN1100D1-IU10900	SR20	Φ6	10604	2171	3013	2906	1450.5	1455.5	120	370.88	8	(8+8)×11	150	3~4	5~6

UN1100D1 Specifications

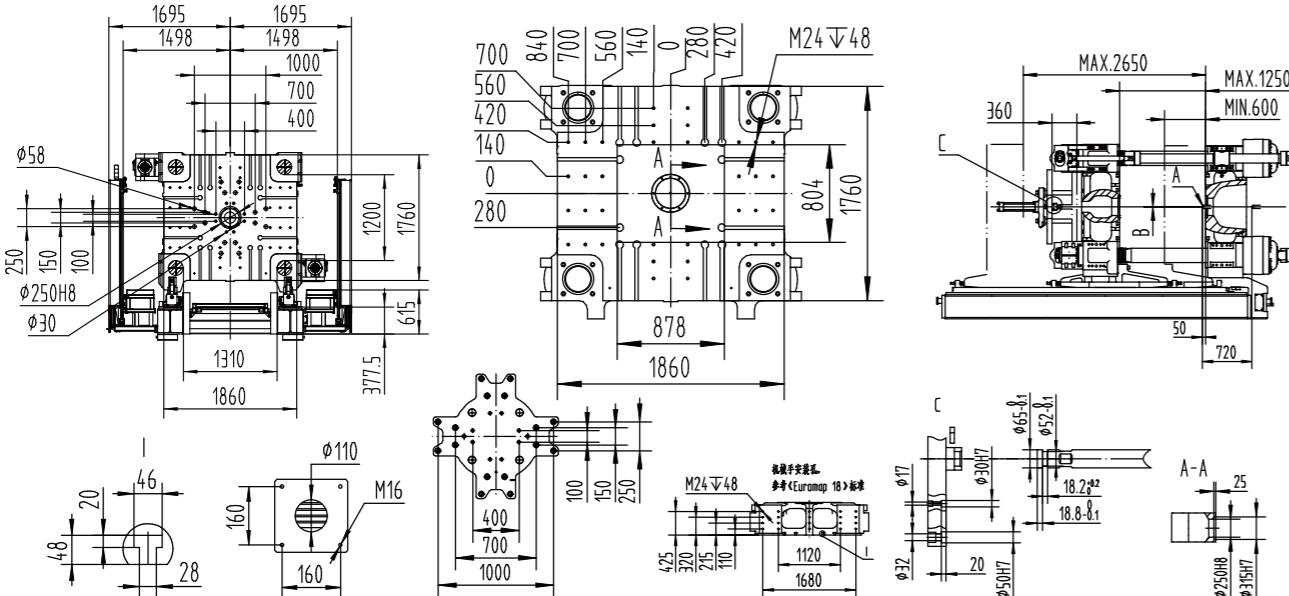
Injection Unit																												
Model	IU4800				IU6800				IU9000				IU10900															
Screw diameter (mm)	84	92	100	108	92	100	108	116	100	108	116	125	108	116	125	135												
Shot volume (cm ³)	2217	2659	3142	3664	3191	3770	4397	5073	4320	5038	5813	6748	5222	6024	6995	8159												
Shot weight (g)	2039	2446	2890	3371	2936	3468	4045	4667	3974	4636	5348	6208	4804	5542	6435	7506												
Injection pressure (MPa)	218	181	154	134	213	180	154	134	209	179	155	134	210	182	157	135												
L/D ratio	21.9	20	21.6	20	21.7	22	21.5	20	21.6	20	21.6	20	22	22	21.6	20												
Injection rate (cm ³ /s)	516	619	730	853	615	726	847	980	766	894	1031	1197	823	950	1092	1287												
Max.injection speed (mm/s)	93.9				92.5				97.6				89															
Screw stroke (mm)	400				480				550				570															
Max.screw speed (r/min)	154				145				128				112															
Barrel heating zone (PCS)	6				7				7				8															
Clamping Unit																												
Clamping force (kN)	11000																											
Opening force (kN)	760																											
Platen size (mm)	1700×1660																											
Space between tie bars (mm)	1270×1100																											
Max. mold thickness (mm)	1200																											
Min. mold thickness (mm)	600																											
Opening stroke (mm)	1800/1200																											
Max. daylight (mm)	2400																											
Ejector force (KN)	274																											
Ejector stroke (mm)	360																											
Ejector number (PCS)	25																											
Power unit																												
System pressure (MPa)	17.5/30				17.5/30				17.5/30				17.5/30															
Pump motor (kW)	66+7.5				89+7.5				110+7.5				89+37+7.5															
Total power (kW)	110.6	110.6	120.5	120.5	143.5	143.5	153.1	153.1	169.3	169.3	178.4	178.4	199.9	199.9	204.1	204.1												
Heater power (kW)	37.14	37.14	47	47	47	47	56.6	56.6	51.76	51.76	60.9	60.9	66.37	66.37	70.63	70.63												
General																												
Oil tank capacity (L)	1000				1150				1400				1600															
Machine dimensions (m)	10×3.3×3.1				10×3.3×3.1				10.1×3.3×3.1				10.7×3.3×3.1															
Max. mold weight (T)	16				16				16				16															

1. Opening force refers to mold opening force generated during high-pressure mold open.
 2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to opening stroke with maximum mold height.
 3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.
 4. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
 5. Three kinds of screws are available for each model and the medium one is standard on the machine.
 6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm³] × injection pressure (MPa)/100
 7. The green figures are standard specifications of clamping unit and injection unit.
 8. Because of constant technical improvement, the machine specifications are subject to change without notice.

UN1200D1 Machine Dimensions



UN1200D1 Platen Dimensions



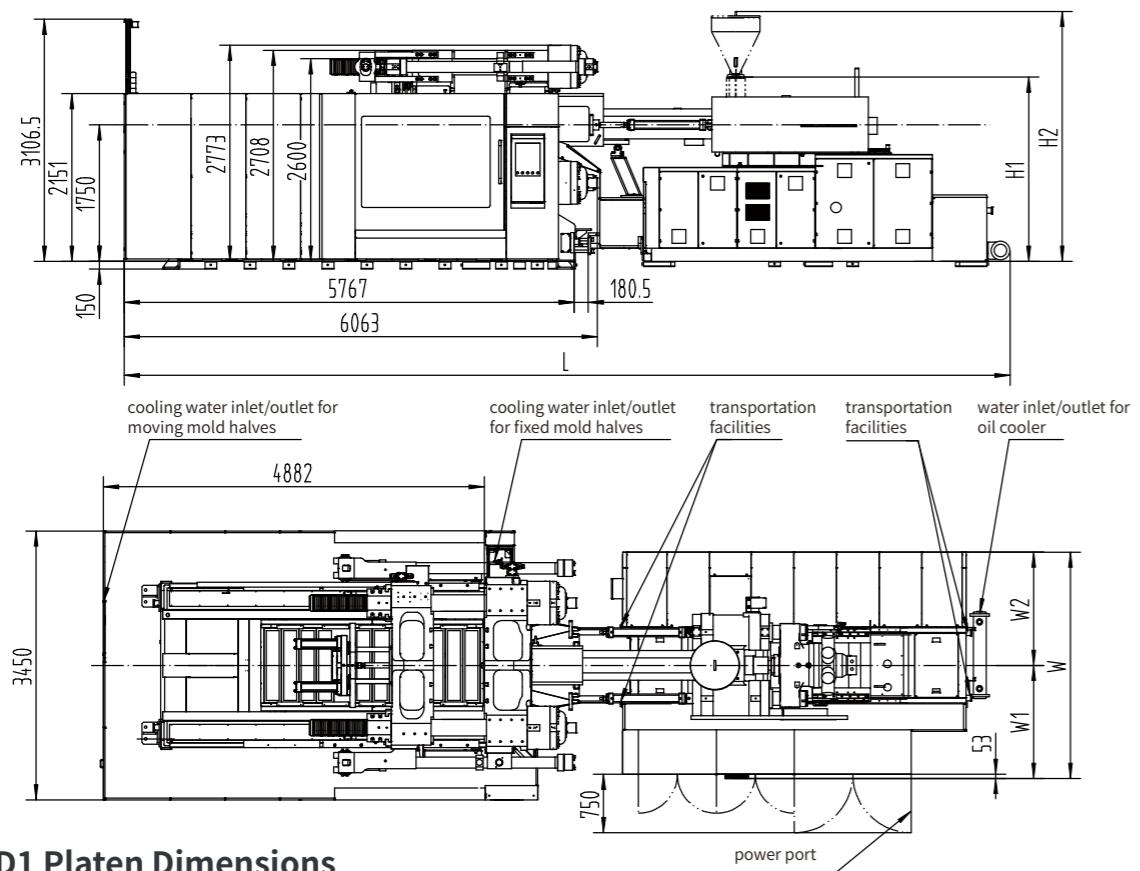
Model	A	B	L	H1	H2	W	W1	W2	Main power cord size	Full-load current	Bearing capacity of foundation	Mold cooling water ports	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
UN1200D1-IU4800	SR15	Φ4.5	10491	1812	2677	2333	1113	1220	mm ²	A	t/m ²	n×L/min	L/min	bar	bar
UN1200D1-IU6800	SR15	Φ4.5	10491	1812	2677	2711	1352	1359	75	259.84	8	(8+8)×11	150	3~4	5~6
UN1200D1-IU9000	SR15	Φ4.5	10621	2196	3038	2906	1450.5	1455.5	95	316.71	8	(8+8)×11	150	3~4	5~6
UN1200D1-IU10900	SR20	Φ6	11091	2231	3073	2906	1450.5	1455.5	120	370.88	8	(8+8)×11	150	3~4	5~6

UN1200D1 Specifications

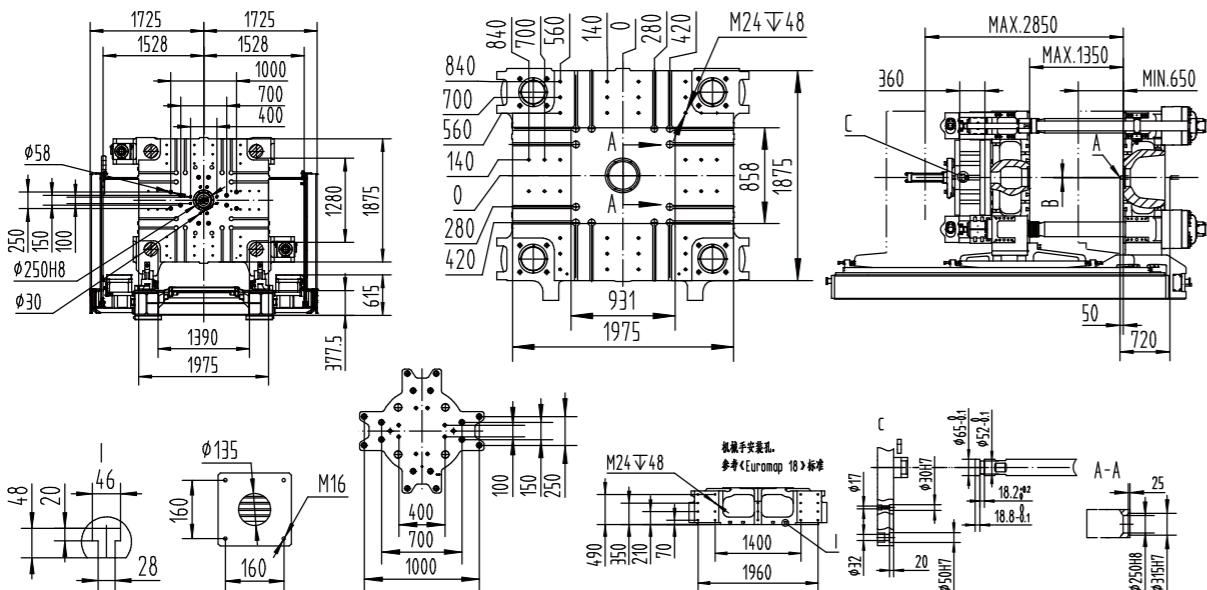
Model	Injection Unit								Clamping Unit				Power unit				General			
	IU4800	IU6800	IU9000	IU10900	Clamping force (kN)	Opening force (kN)	Platen size (mm)	Space between tie bars (mm)	System pressure (MPa)	Pump motor (kW)	Total power (kW)	Heater power (kW)	Oil tank capacity (L)	Machine dimensions (m)	Max. mold weight (T)					
Screw diameter (mm)	84	92	100	108	92	100	108	116	100	108	116	125	108	116	125	135				
Shot volume (cm ³)	2217	2659	3142	3664	3191	3770	4397	5073	4320	5038	5813	6748	5222	6024	6995	8159				
Shot weight (g)	2039	2446	2890	3371	2936	3468	4045	4667	3974	4636	5348	6208	4804	5542	6435	7506				
Injection pressure (MPa)	218	181	154	134	213	180	154	134	209	179	155	134	210	182	157	135				
L/D ratio	21.9	20	21.6	20	21.7	22	21.5	20	21.6	20	21.6	20	22	22	21.6	20				
Injection rate (cm ³ /s)	516	619	730	853	615	726	847	980	823	894	1031	1197	823	950	1092	1287				
Max.injection speed (mm/s)									93.9				97.6			89				
Screw stroke (mm)										400			550			570				
Max.screw speed (r/min)											154		145			112				
Barrel heating zone (PCS)											6		7			8				
Clamping Unit																				
Clamping force (kN)													12000							
Opening force (kN)													875							
Platen size (mm)													1860×1760							
Space between tie bars (mm)													1310×1200							
Max. mold thickness (mm)													1250							
Min. mold thickness (mm)													600							
Opening stroke (mm)													2050/1400							
Max. daylight (mm)													2650							
Ejector force (kN)													274							
Ejector stroke (mm)													360							
Ejector number (PCS)													25							
Power unit																				
System pressure (MPa)									17.5/30				17.5/30			17.5/30				
Pump motor (kW)									66+7.5				110+7.5			89+37+7.5				
Total power (kW)	110.6	110.6	120.5	120.5	143.5	143.5	153.1	153.1	169.3	169.3	178.4	178.4	199.9	199.9	204.1	204.1				
Heater power (kW)	37.14	37.14	47	47	47	47	56.6	56.6	51.76	51.76	60.9	60.9	66.37	66.37	70.63	70.63				
General																				
Oil tank capacity (L)									1000				1150			1600				
Machine dimensions (m)									10.5×3.4×3.1				1400			11.1×3.4×3.1				
Max. mold weight (T)									20				20			20				

- Opening force refers to mold opening force generated during high-pressure mold open.
- In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to opening stroke with maximum mold height.
- Mold-bearing capacity of the movable platen is 2/3 of total mold weight.
- The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
- Three kinds of screws are available for each model and the medium one is standard on the machine.
- The injection unit data are in international units and calculated as follows: theoretical shot volume [cm³] × injection pressure (MPa)/100
- The green figures are standard specifications of clamping unit and injection unit.
- Because of constant technical improvement, the machine specifications are subject to change without notice.

UN1300D1 Machine Dimensions



UN1300D1 Platen Dimensions



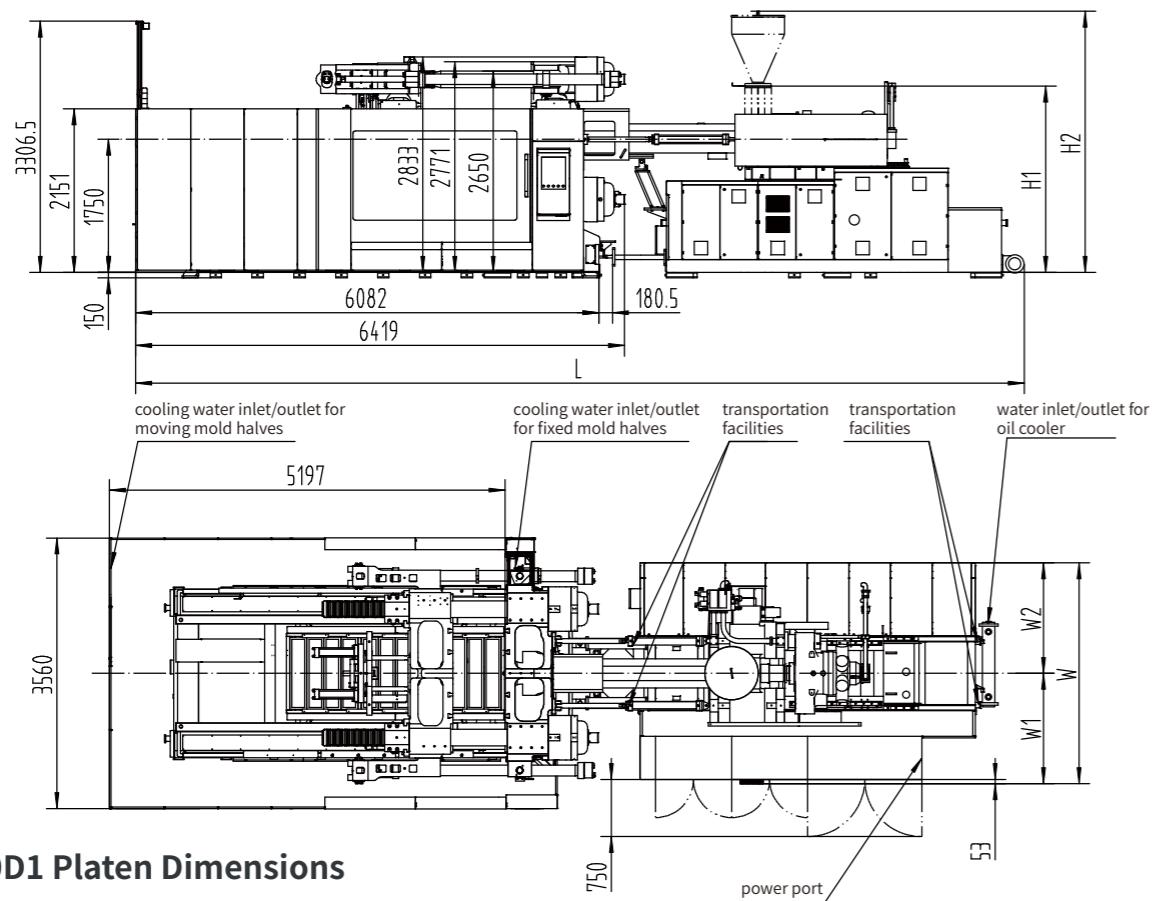
Model	A	B	L	H1	H2	W	W1	W2	Main power cord size	Full-load current	Bearing capacity of foundation	Mold cooling water ports	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
UN1300D1-IU6800	SR15	Φ4.5	10756	1935	2800	2711	1352	1359	mm	mm	t/m ²	n×L/min	L/min	bar	bar
UN1300D1-IU9000	SR15	Φ4.5	10886	2319	3161	2906	1450.51455.5	95	259.84	8	(8+8)×11	150	3~4	5~6	
UN1300D1-IU10900	SR20	Φ6	11356	2354	3196	2906	1450.51455.5	120	370.88	8	(8+8)×11	150	3~4	5~6	
UN1300D1-IU14500	SR20	Φ8	11681	2473	3460	3146	1548	1598	150	470.42	8	(8+8)×11	150	3~4	5~6

UN1300D1 Specifications

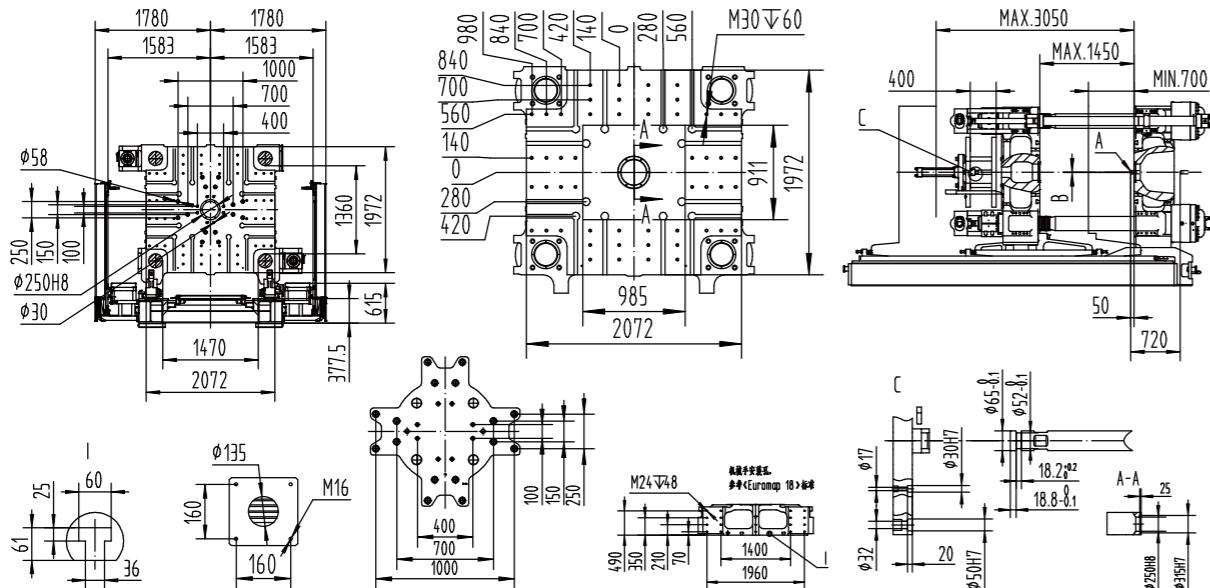
Model	Injection Unit								Clamping Unit				Power unit			General		
	IU6800	IU9000	IU10900	IU14500	Clamping force (kN)	Opening force (kN)	Platen size (mm)	Space between tie bars (mm)	System pressure (MPa)	Total power (kW)	Heater power (kW)	Oil tank capacity (L)	Machine dimensions (m)	Max. mold weight (T)				
Screw diameter (mm)	92	100	108	116	100	108	116	125	108	116	125	135	125	135	145	7977	9304	10733
Shot volume (cm ³)	3191	3770	4397	5073	4320	5038	5813	6748	5222	6024	6995	8159						
Shot weight (g)	2936	3468	4045	4667	3974	4636	5348	6208	4804	5542	6435	7506	7339	8560	9875			
Injection pressure (MPa)	213	180	154	134	209	179	155	134	210	182	157	135	181	156	135			
L/D ratio	21.7	22	21.5	20	21.6	20	21.6	20	22	22	21.6	20	23.6	22	20			
Injection rate (cm ³ /s)	615	726	847	980	766	894	1031	1197	823	950	1092	1287	1316	1536	1772			
Max.injection speed (mm/s)					92.5					97.6		89			107			
Screw stroke (mm)						480					550		570		650			
Max.screw speed (r/min)							145					128		112		120		
Barrel heating zone (PCS)								7				8			8			

- Opening force refers to mold opening force generated during high-pressure mold open.
- In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to opening stroke with maximum mold height.
- Mold-bearing capacity of the movable platen is 2/3 of total mold weight.
- The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
- Three kinds of screws are available for each model and the medium one is standard on the machine.
- The injection unit data are in international units and calculated as follows: theoretical shot volume [cm³] × injection pressure (MPa)/100
- The green figures are standard specifications of clamping unit and injection unit.
- Because of constant technical improvement, the machine specifications are subject to change without notice.

UN1400D1 Machine Dimensions



UN1400D1 Platen Dimensions



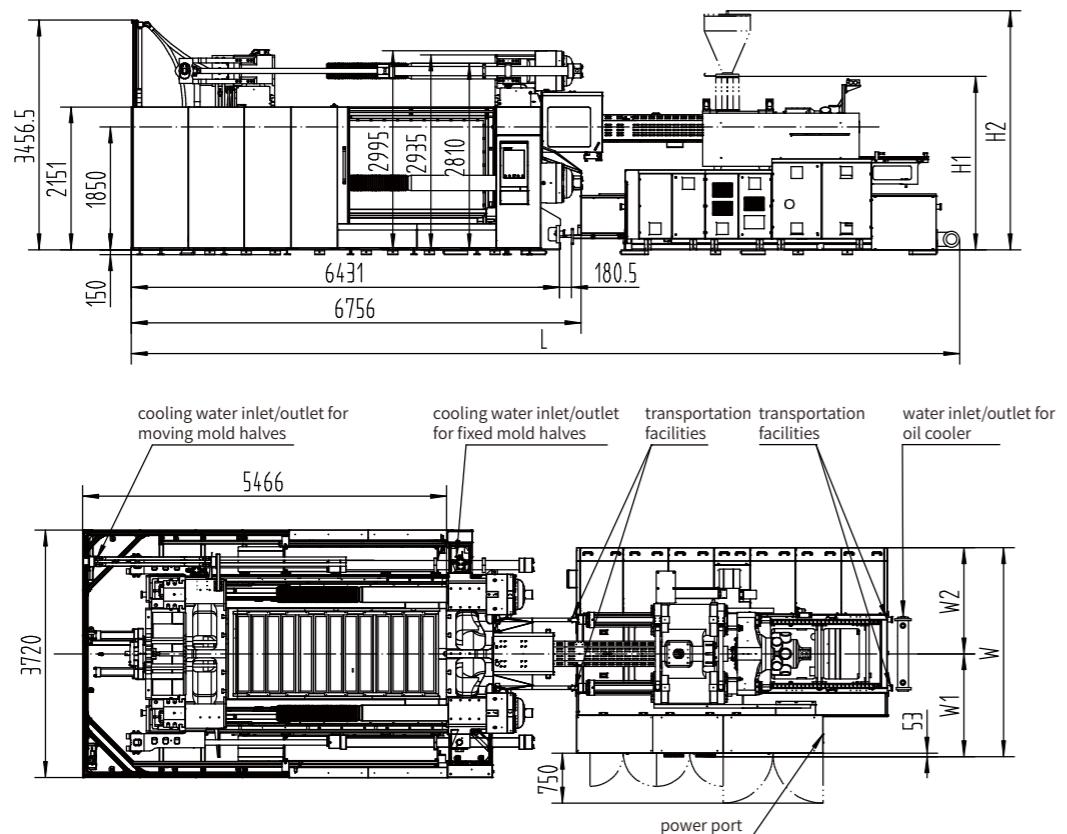
Model	A	B	L	H1	H2	W	W1	W2	Main power cord size	Full-load current	Bearing capacity of foundation	Mold cooling water ports	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
	mm	mm	mm	mm	mm	mm	mm	mm	mm ²	A	t/m ²	n×L/min	L/min	bar	bar
UN1400D1-IU6800	SR15	Φ4.5	11072	1935	2800	2711	1352	1359	75	259.84	8	(8+8)×11	150	3~4	5~6
UN1400D1-IU9000	SR15	Φ4.5	11202	2319	3161	2906	1450.5	1455.5	95	316.71	8	(8+8)×11	150	3~4	5~6
UN1400D1-IU10900	SR20	Φ6	11672	2354	3196	2906	1450.5	1455.5	120	370.88	8	(8+8)×11	150	3~4	5~6
UN1400D1-IU14500	SR20	Φ8	11997	2473	3460	3146	1548	1598	150	470.42	8	(8+8)×11	150	3~4	5~6

UN1400D1 Specifications

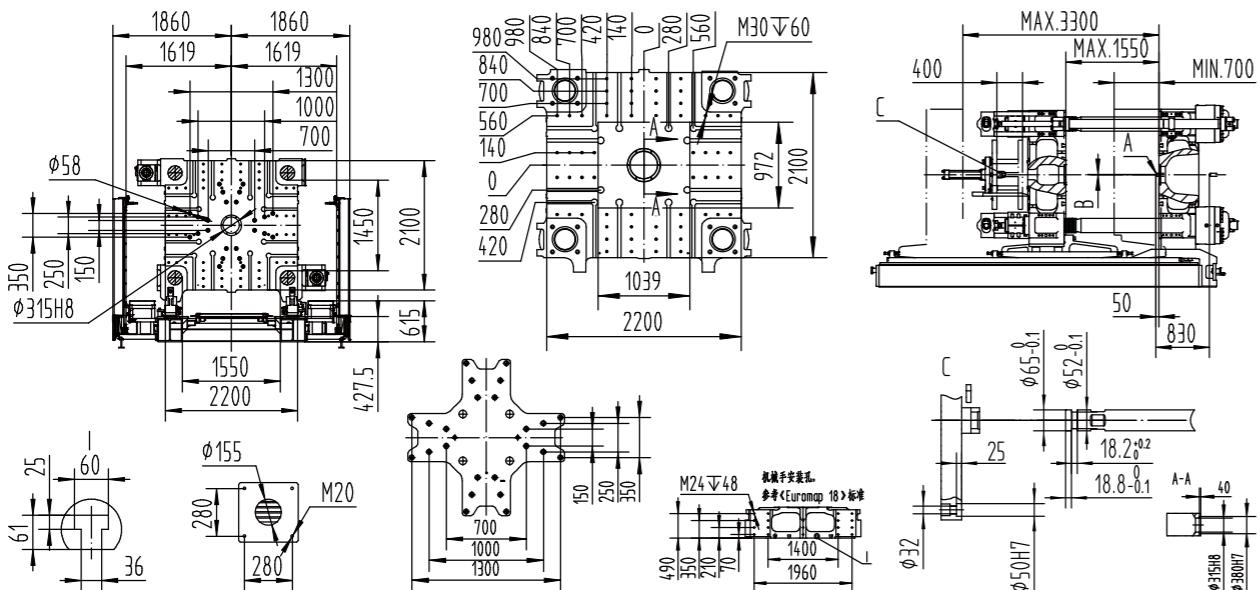
Injection Unit																		
Model	IU6800				IU9000				IU10900				IU14500					
Screw diameter (mm)	92	100	108	116	100	108	116	125	108	116	125	135	125	135	145			
Shot volume (cm ³)	3191	3770	4397	5073	4320	5038	5813	6748	5222	6024	6995	8159	7977	9304	10733			
Shot weight (g)	2936	3468	4045	4667	3974	4636	5348	6208	4804	5542	6435	7506	7339	8560	9875			
Injection pressure (MPa)	213	180	154	134	209	179	155	134	210	182	157	135	181	156	135			
L/D ratio	21.7	22	21.5	20	21.6	20	21.6	20	22	22	21.6	20	23.6	22	20			
Injection rate (cm ³ /s)	615	726	847	980	766	894	1031	1197	823	950	1092	1287	1316	1536	1772			
Max.injection speed (mm/s)	92.5				97.6				89				107					
Screw stroke (mm)	480				550				570				650					
Max.screw speed (r/min)	145				128				112				120					
Barrel heating zone (PCS)	7				7				8				8					
Clamping Unit																		
Clamping force (kN)	14000																	
Opening force (kN)	950																	
Platen size (mm)	2072×1972																	
Space between tie bars (mm)	1470×1360																	
Max. mold thickness (mm)	1450																	
Min. mold thickness (mm)	700																	
Opening stroke (mm)	2350/1600																	
Max. daylight (mm)	3050																	
Ejector force (KN)	300																	
Ejector stroke (mm)	400																	
Ejector number (PCS)	25																	
Power Unit																		
System pressure (MPa)	17.5/30				17.5/30				17.5/30				17.5/30					
Pump motor (kW)	89+7.5				110+7.5				89+37+7.5				89+66+11					
Total power (kW)	143.5	143.5	153.1	153.1	169.3	169.3	178.4	178.4	199.9	199.9	204.1	204.1	253.7					
Heater power (kW)	47	47	56.6	56.6	51.76	51.76	60.9	60.9	66.37	66.37	70.63	70.63	87.7					
General																		
Oil tank capacity (L)	1150				1400				1600				2100					
Machine dimensions (m)	11.1×3.6×3.3				11.2×3.6×3.3				11.7×3.6×3.3				12×3.6×3.5					
Max. mold weight (T)	27				27				27				27					

1. Opening force refers to mold opening force generated during high-pressure mold open.
 2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to opening stroke with maximum mold height.
 3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.
 4. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
 5. Three kinds of screws are available for each model and the medium one is standard on the machine.
 6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm^3] \times injection pressure (MPa)/100
 7. The green figures are standard specifications of clamping unit and injection unit.
 8. Because of constant technical improvement, the machine specifications are subject to change without notice.

UN1600D1 Machine Dimensions



UN1600D1 Platen Dimensions



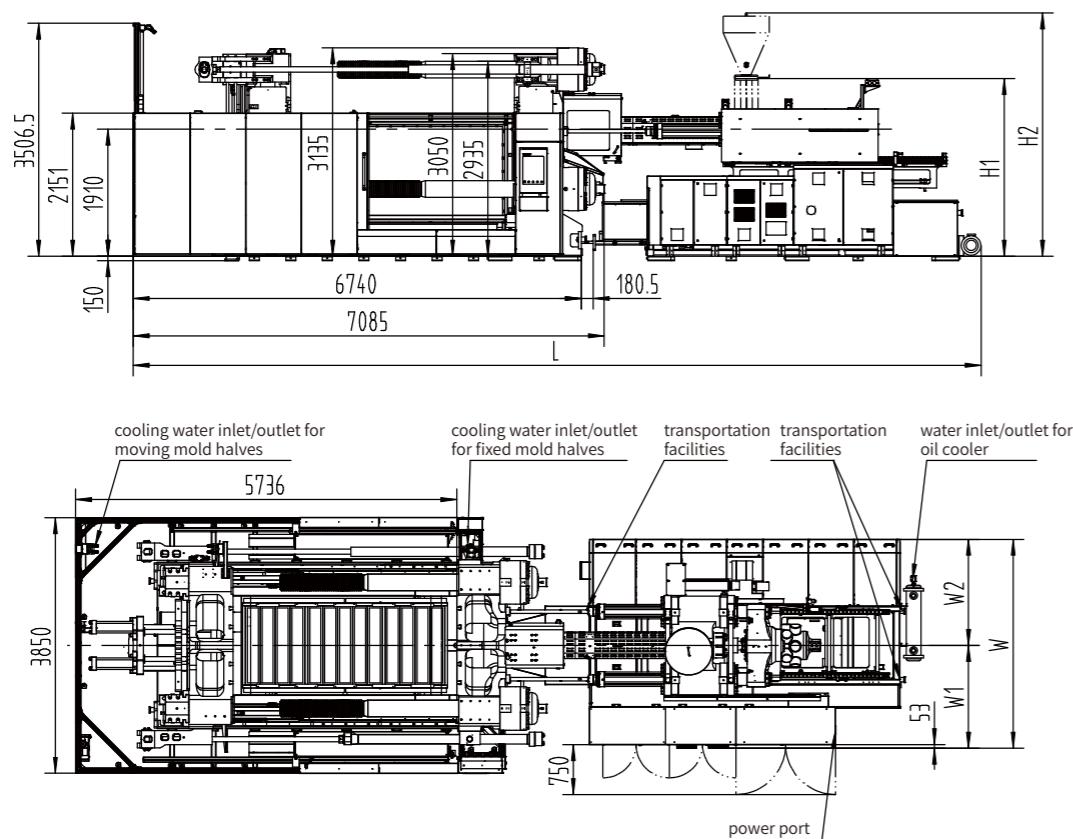
Model	A	B	L	H1	H2	W	W1	W2	Main power cord size	Full-load current	Bearing capacity of foundation	Mold cooling water ports	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
UN1600D1-IU9000	SR15	Φ4.5	11651	2419	3261	2906	1450.5	1455.5	95	316.71	10.5	(8+8)×11	200	3~4	5~6
UN1600D1-IU10900	SR20	Φ6	12121	2454	3296	2906	1450.5	1455.5	120	370.88	10.5	(8+8)×11	200	3~4	5~6
UN1600D1-IU14500	SR20	Φ8	12446	2573	3560	3146	1548	1598	150	470.42	10.5	(8+8)×11	200	3~4	5~6
UN1600D1-IU18500	SR20	Φ8	12446	2589	3576	3146	1548	1598	150	470.42	10.5	(8+8)×11	200	3~4	5~6

UN1600D1 Specifications

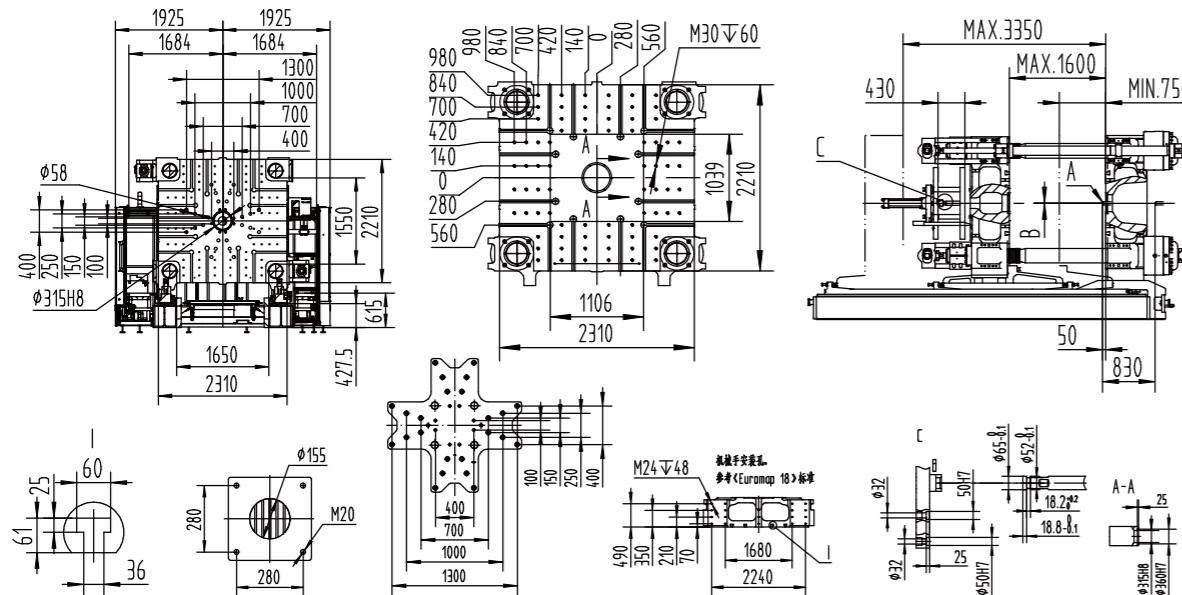
Model	Injection Unit							Clamping Unit			Power Unit				General														
	IU9000	IU10900	IU14500	IU18500	IU9000	IU10900	IU14500	Clamping force (kN)	Opening force (kN)	Platen size (mm)	Space between tie bars (mm)	Max. mold thickness (mm)	Min. mold thickness (mm)	Opening stroke (mm)	Max. daylight (mm)	Ejector force (kN)	Ejector stroke (mm)	Ejector number (PCS)	System pressure (MPa)	Pump motor (kW)	Total power (kW)	Heater power (kW)	Oil tank capacity (L)	Machine dimensions (m)	Max. mold weight (T)				
Screw diameter (mm)	100	108	116	125	108	116	125	125	135	16000	1100	2200×2100	1550	1550	3300	300	400	25	17.5/30	110+7.5	169.3	51.76	1400	11.7×3.7×3.5	34				
Shot volume (cm³)	4320	5038	5813	6748	5222	6024	6995	7977	9304	10020	10559	13208	7339	8560	10733	9218	10634	13770	100	5038	5813	6748	7977	9304	10733	1295	1494	1717	1936
Shot weight (g)	3974	4636	5348	6208	4804	5542	6435	7339	8560	9218	10634	13208	181	156	10733	1295	1494	1717	1936	125	135	145	135	184	160	140	123		
Injection pressure (MPa)	209	179	155	134	210	182	157	181	156	125	145	165	21.6	20	135	22	20	135	135	145	145	135	145	145	135	155	165		
L/D ratio																													
Injection rate (cm³/s)	766	894	1031	1197	823	950	1092	1316	1536	1295	1494	1717	23.6	22	1772	1295	1494	1717	1936	97.6	89	107	91	120	120	120	120	120	120
Max.injection speed (mm/s)																													
Screw stroke (mm)																													
Max.screw speed (r/min)																													
Barrel heating zone (PCS)																													

- Opening force refers to mold opening force generated during high-pressure mold open.
- In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to opening stroke with maximum mold height.
- Mold-bearing capacity of the movable platen is 2/3 of total mold weight.
- The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
- Three kinds of screws are available for each model and the medium one is standard on the machine.
- The injection unit data are in international units and calculated as follows: theoretical shot volume [cm³] × injection pressure (MPa)/100
- The green figures are standard specifications of clamping unit and injection unit.
- Because of constant technical improvement, the machine specifications are subject to change without notice.

UN1850D1 Machine Dimensions



UN1850D1 Platen Dimensions



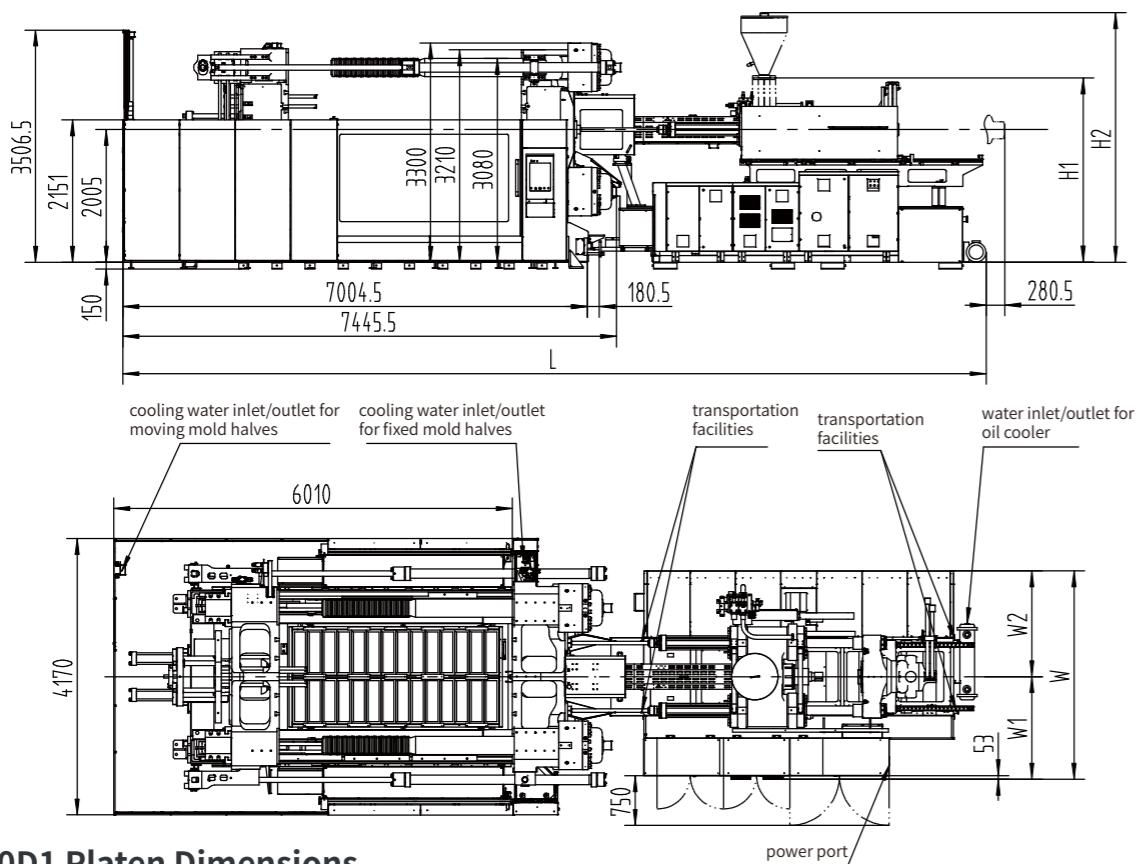
Model	A	B	L	H1	H2	W	W1	W2	Main power cord size	Full-load current	Bearing capacity of foundation	Mold cooling water ports	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
	mm	mm	mm	mm	mm	mm	mm	mm	mm ²	A	t/m ²	n×L/min	L/min	bar	bar
UN1850D1-IU9000	SR15	Φ4.5	11960	2479	3321	2906	1450.5	1455.5	95	316.71	10.5	(8+8)×11	200	3~4	5~6
UN1850D1-IU10900	SR20	Φ6	12430	2514	3356	2906	1450.5	1455.5	120	370.88	10.5	(8+8)×11	200	3~4	5~6
UN1850D1-IU14500	SR20	Φ8	12756	2633	3620	3146	1548	1598	150	470.42	10.5	(8+8)×11	200	3~4	5~6
UN1850D1-IU18500	SR20	Φ8	12756	2649	3636	3146	1548	1598	150	470.42	10.5	(8+8)×11	200	3~4	5~6

UN1850D1 Specifications

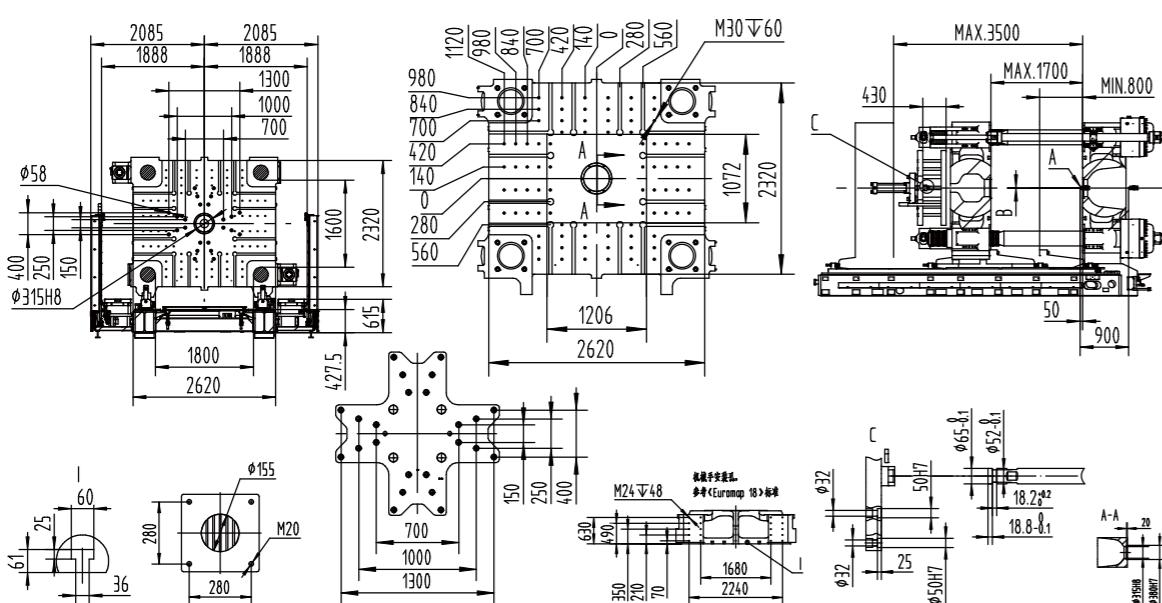
Injection Unit																					
Model	IU9000				IU10900				IU14500			IU18500									
Screw diameter (mm)	100	108	116	125	108	116	125	135	125	135	145	135	145	155	165						
Shot volume (cm ³)	4320	5038	5813	6748	5222	6024	6995	8159	7977	9304	10733	10020	11559	13208	14968						
Shot weight (g)	3974	4636	5348	6208	4804	5542	6435	7506	7339	8560	9875	9218	10634	12152	13770						
Injection pressure (MPa)	209	179	155	134	210	182	157	135	181	156	135	184	160	140	123						
L/D ratio	21.6	20	21.6	20	22	22	21.6	20	23.6	22	20	23.6	22	22	20						
Injection rate (cm ³ /s)	766	894	1031	1197	823	950	1092	1287	1316	1536	1772	1295	1494	1717	1936						
Max.injection speed (mm/s)	97.6				89				107			91									
Screw stroke (mm)	550				570				650			700									
Max.screw speed (r/min)	128				112				120			120									
Barrel heating zone (PCS)	7				8				8			8									
Clamping Unit																					
Clamping force (kN)	18500																				
Opening force (kN)	1230																				
Platen size (mm)	2310×2210																				
Space between tie bars (mm)	1650×1550																				
Max. mold thickness (mm)	1600																				
Min. mold thickness (mm)	750																				
Opening stroke (mm)	2600/1750																				
Max. daylight (mm)	3350																				
Ejector force (kN)	460																				
Ejector stroke (mm)	430																				
Ejector number (PCS)	33																				
Power unit																					
System pressure (MPa)	17.5/30				17.5/30				17.5/30			17.5/30									
Pump motor (kW)	110+7.5				89+37+7.5				89+66+11			89+66+11									
Total power (kW)	169.3	169.3	178.4	178.4	199.9	199.9	204.1	204.1	253.7			263.8									
Heater power (kW)	51.76	51.76	60.9	60.9	66.37	66.37	70.63	70.63	87.7			97.8									
General																					
Oil tank capacity (L)	1400				1600				2100			2100									
Machine dimensions (m)	12×3.9×3.5				12.4×3.9×3.5				12.8×3.9×3.7			12.8×3.9×3.7									
Max. mold weight (T)	42				42				42			42									

1. Opening force refers to mold opening force generated during high-pressure mold open.
 2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to opening stroke with maximum mold height.
 3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.
 4. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
 5. Three kinds of screws are available for each model and the medium one is standard on the machine.
 6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm³] × injection pressure (MPa)/100
 7. The green figures are standard specifications of clamping unit and injection unit.
 8. Because of constant technical improvement, the machine specifications are subject to change without notice.

UN2100D1 Machine Dimensions



UN2100D1 Platen Dimensions



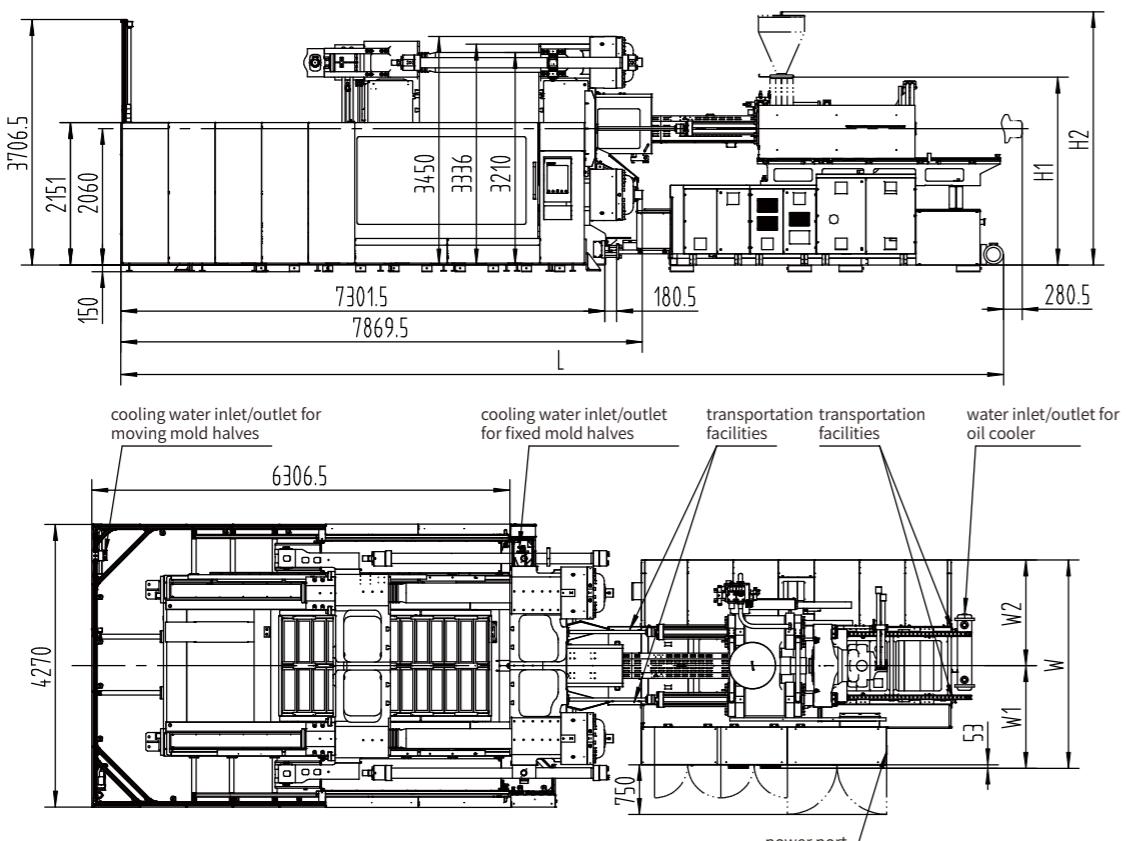
Model	A	B	L	H1	H2	W	W1	W2	Main power cord size	Full-load current	Bearing capacity of foundation	Mold cooling water ports	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
UN2100D1-IU10900	SR20	Φ6	12695	2609	3451	2906	1450.5	1455.5	120	370.88	12.5	(8+8)×11	200	3~4	5~6
UN2100D1-IU14500	SR20	Φ8	13021	2728	3715	3146	1548	1598	150	470.42	12.5	(8+8)×11	200	3~4	5~6
UN2100D1-IU18500	SR20	Φ8	13021	2744	3731	3146	1548	1598	150	470.42	12.5	(8+8)×11	200	3~4	5~6
UN2100D1-IU23750	SR25	Φ8	15475	2754	3760	3660.5	1847.5	1813	185	590.28	12.5	(8+8)×11	200	3~4	5~6
UN2100D1-IU37500	SR25	Φ8	15475	2830	3817	3660.5	1847.5	1813	185	643.48	12.5	(8+8)×11	200	3~4	5~6

UN2100D1 Specifications

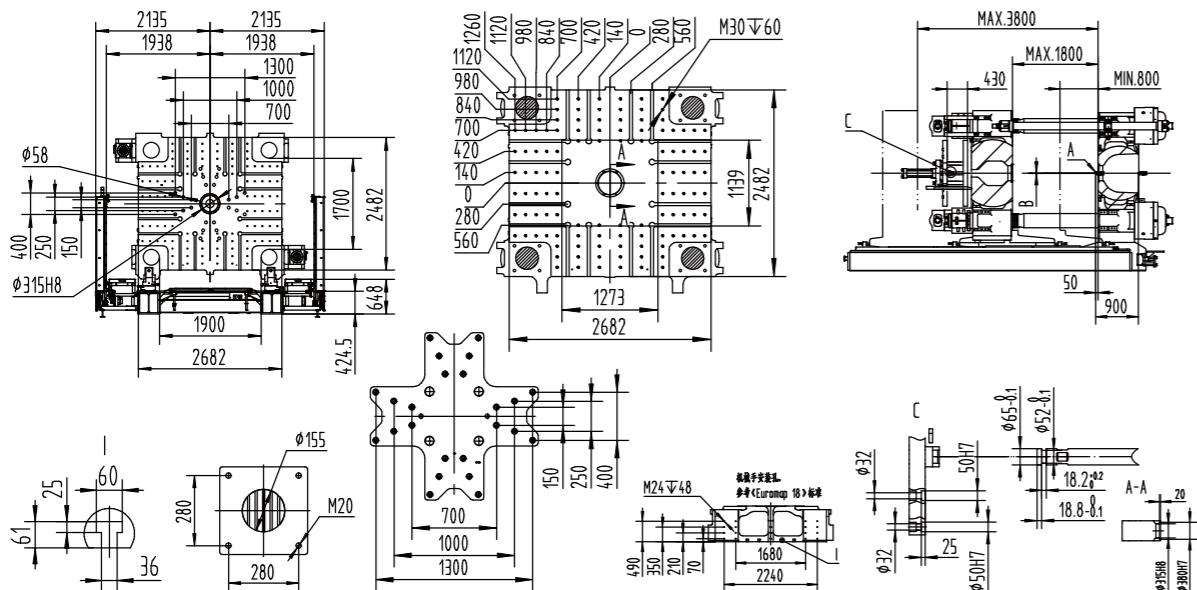
Model	IU10900							IU14500			IU18500				IU23750								
Screw diameter (mm)	108	116	125	135	125	135	145	135	145	155	165	145	155	165	185								
Shot volume (cm³)	5222	6024	6995	8159	7977	9304	10733	10020	11559	13208	14968	12385	14152	16037	26343								
Shot weight (g)	4804	5542	6435	7506	7339	8560	9875	9218	10634	12152	13770	11394	13020	14754	24235								
Injection pressure (MPa)	210	182	157	135	181	156	135	184	160	140	123	190	167	147	151								
L/D ratio	22	22	21.6	20	23.6	22	20	23.6	22	22	20	23.5	22	20.1	22								
Injection rate (cm³/s)	823	950	1092	1287	1316	1536	1772	1295	1494	1717	1936	1532	1750	1983	1934								
Max.injection speed (mm/s)	89							107			91				92.7	71.9							
Screw stroke (mm)	570							650			700				750	980							
Max.screw speed (r/min)	112							120			120				120	80							
Barrel heating zone (PCS)	8							8			8				10	11							
Clamping force (kN)	21000																						
Opening force (kN)	1380																						
Platen size (mm)	2620×2320																						
Space between tie bars (mm)	1800×1600																						
Max. mold thickness (mm)	1700																						
Min. mold thickness (mm)	800																						
Opening stroke (mm)	2700/1800																						
Max. daylight (mm)	3500																						
Ejector force (kN)	460																						
Ejector stroke (mm)	430																						
Ejector number (PCS)	25																						
System pressure (MPa)	17.5/30							17.5/30			17.5/30				17.5/30	17.5/30							
Pump motor (kW)	89+37+7.5							89+66+11			89+66+11				110+89+11	110+89+11							
Total power (kW)	199.9	199.9	204.1	204.1	253.7			263.8			263.8				322.4	357.5							
Heater power (kW)	66.37	66.37	70.63	70.63	87.7			97.8			97.8				112.4	147.5							
Oil tank capacity (L)	1600							2100			2100				2850	2850							
Machine dimensions (m)	12.7×4.2×3.5							13.0×4.2×3.8			13.0×4.2×3.8				15.5×4.2×3.9	15.5×4.2×3.9							
Max. mold weight (T)	50							50			50				50	50							

1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to opening stroke with maximum mold height.
3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.
4. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
5. Three kinds of screws are available for each model and the medium one is standard on the machine.
6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm³] × injection pressure (MPa)/100
7. The green figures are standard specifications of clamping unit and injection unit.
8. Because of constant technical improvement, the machine specifications are subject to change without notice.

UN2400D1 Machine Dimensions



UN2400D1 Platen Dimensions



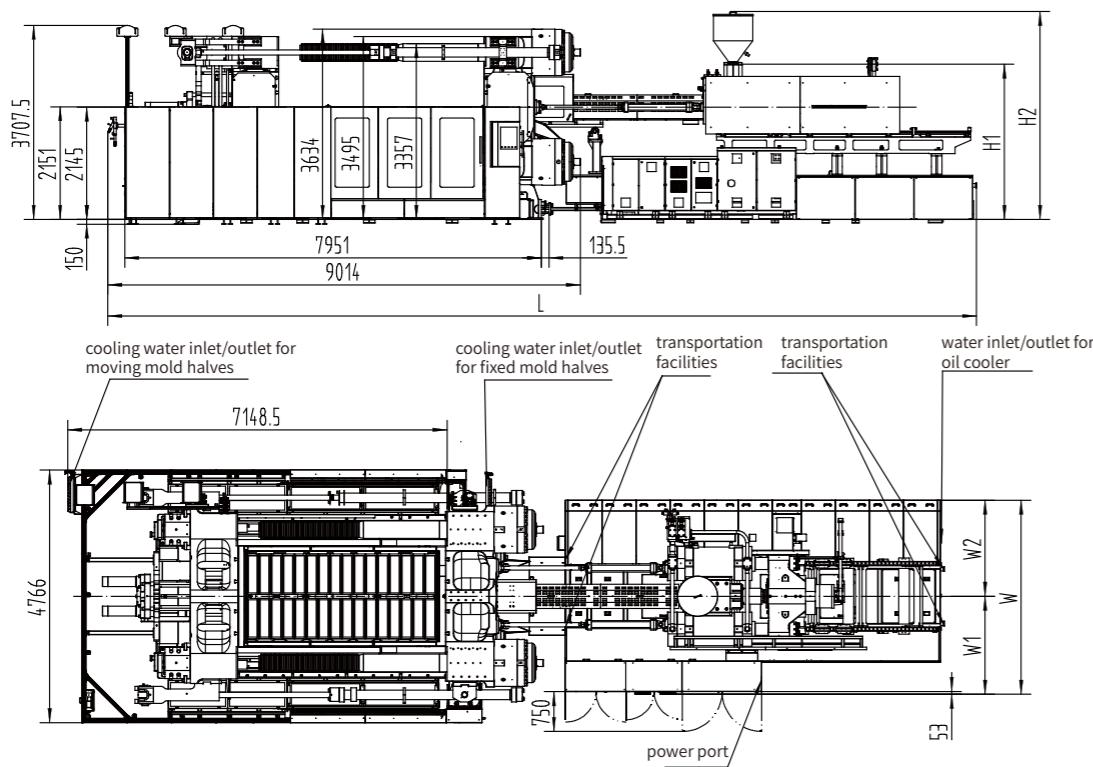
Model	A	B	L	H1	H2	W	W1	W2	Main power cord size	Full-load current	Bearing capacity of foundation	Mold cooling water ports	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
	mm	mm	mm	mm	mm	mm	mm	mm	mm ²	A	t/m ²	n×L/min	L/min	bar	bar
UN2400D1-IU14500	SR20	Ø8	13318	2783	3770	3146	1548	1598	150	470.42	12.5	(8+8)×11	200	3~4	5~6
UN2400D1-IU18500	SR20	Ø8	13318	2799	3786	3146	1548	1598	150	470.42	12.5	(8+8)×11	200	3~4	5~6
UN2400D1-IU23750	SR25	Ø8	15772	2809	3815	3660.5	1847.5	1813	185	643.48	12.5	(8+8)×11	200	3~4	5~6
UN2400D1-IU37500	SR25	Ø8	15772	2885	3872	3660.5	1847.5	1813	185	643.48	12.5	(8+8)×11	200	3~4	5~6
UN2400D1-IU50000	SR28	Ø12	16472	2880	3867	3660.5	1847.5	1813	185	643.48	12.5	(8+8)×11	200	3~3	5~6

UN2400D1 Specifications

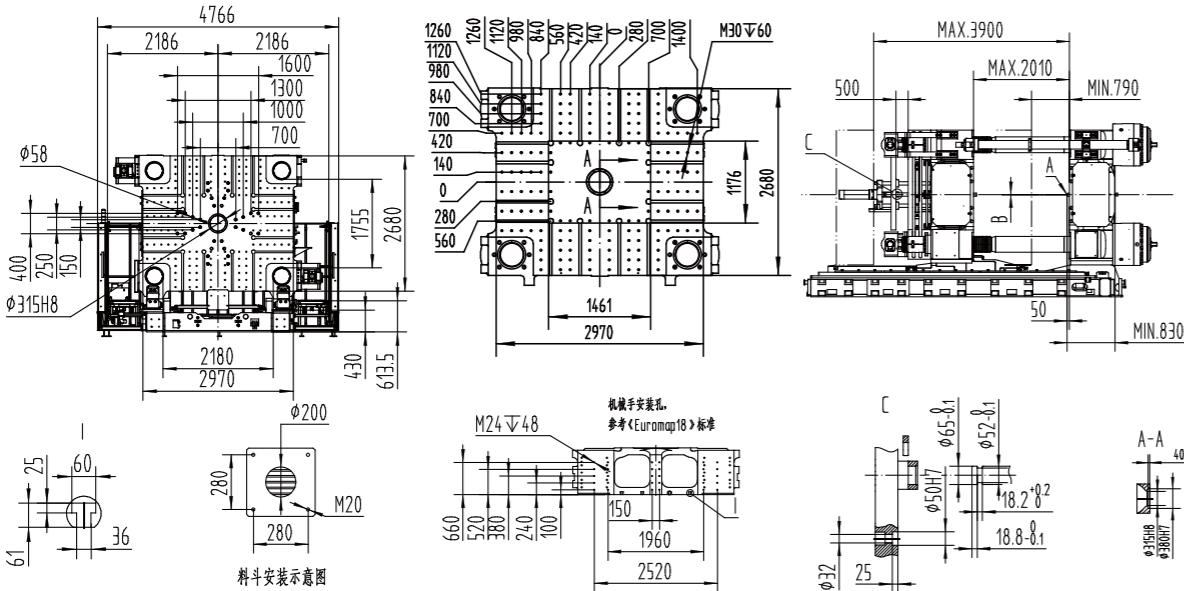
Injection Unit																
Model	IU14500			IU18500			IU23750			IU37500	IU50000					
Screw diameter (mm)	125	135	145	135	145	155	165	145	155	165	185	200				
Shot volume (cm ³)	7977	9304	10733	10020	11559	13208	14968	12385	14152	16037	26343	35186				
Shot weight (g)	7339	8560	9875	9218	10634	12152	13770	11394	13020	14756	24235	32371				
Injection pressure (MPa)	181	156	135	184	160	140	123	190	167	147	151	158				
L/D ratio	23.6	22	20	23.6	22	22	20	23.5	22	20.1	22	22				
Injection rate (cm ³ /s)	1316	1536	1772	1295	1494	1717	1936	1532	1750	1983	1934	1843				
Max.injection speed (mm/s)	107			91			92.7			71.9	58.7					
Screw stroke (mm)	650			700			750			980	1120					
Max.screw speed (r/min)	120			120			120			80	67					
Barrel heating zone (PCS)	8			8			10			11	9					
Clamping Unit																
Clamping force (kN)	24000															
Opening force (kN)	1640															
Platen size (mm)	2682×2482															
Space between tie bars (mm)	1900×1700															
Max. mold thickness (mm)	1800															
Min. mold thickness (mm)	800															
Opening stroke (mm)	3000/2000															
Max. daylight (mm)	3800															
Ejector force (kN)	460															
Ejector stroke (mm)	430															
Ejector number (PCS)	25															
Power Unit																
System pressure (MPa)	17.5/30			17.5/30			17.5/30			17.5/30	17.5/30					
Pump motor (kW)	89+66+11			89+66+11			110+89+11			110+89+11	110+89+11					
Total power (kW)	253.7			263.8			322.4			357.5	403					
Heater power (kW)	87.7			97.8			112.4			147.5	193					
General																
Oil tank capacity (L)	2100			2100			2850			2850	2850					
Machine dimensions (m)	13.3×4.3×3.8			13.3×4.3×3.8			15.8×4.3×3.9			15.8×4.3×3.9	16.5×4.3×4.0					
Max. mold weight (T)	59			59			59			59	59					

1. Opening force refers to mold opening force generated during high-pressure mold open.
 2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to opening stroke with maximum mold height.
 3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.
 4. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
 5. Three kinds of screws are available for each model and the medium one is standard on the machine.
 6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm^3] \times injection pressure (MPa)/100
 7. The green figures are standard specifications of clamping unit and injection unit.
 8. Because of constant technical improvement, the machine specifications are subject to change without notice.

UN2850D1 Machine Dimensions



UN2850D1 Platen Dimensions



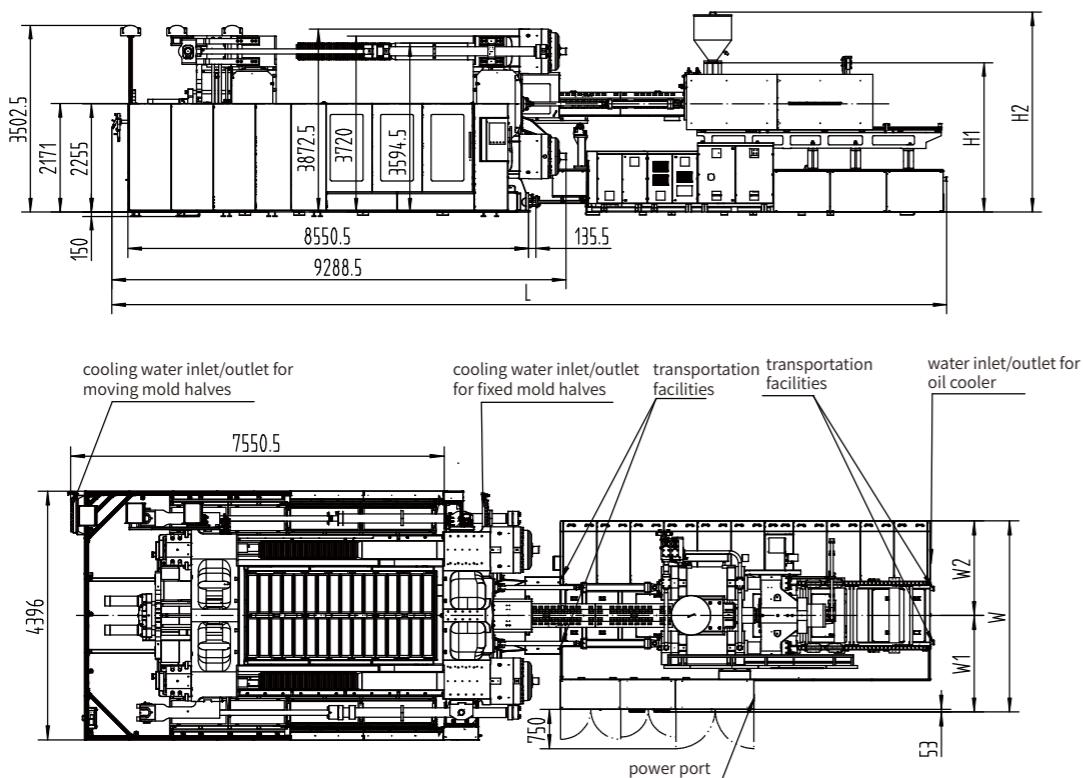
Model	A	B	L	H1	H2	W	W1	W2	Main power cord size	Full-load current	Bearing capacity of foundation	Mold cooling water ports	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
UN2850D1-IU18500	mm	mm	mm	mm	mm	mm	mm	mm	mm ²	A	t/m ²	n×L/min	L/min	bar	bar
UN2850D1-IU18500	SR20	Ø8	14120	2939	3926	3146	1548	1598	150	470.42	14.5	(8+8)×11	200	3~4	5~6
UN2850D1-IU23750	SR25	Ø8	16574	2955	3942	3660.5	1847.5	1813	185	643.48	14.5	(8+8)×11	200	3~4	5~6
UN2850D1-IU23750	SR25	Ø8	16574	2965	3971	3660.5	1847.5	1813	185	643.48	14.5	(8+8)×11	200	3~4	5~6
UN2850D1-IU23750	SR28	Ø12	16964	3041	4028	3660.5	1847.5	1813	185	643.48	14.5	(8+8)×11	200	3~4	5~6

UN2850D1 Specifications

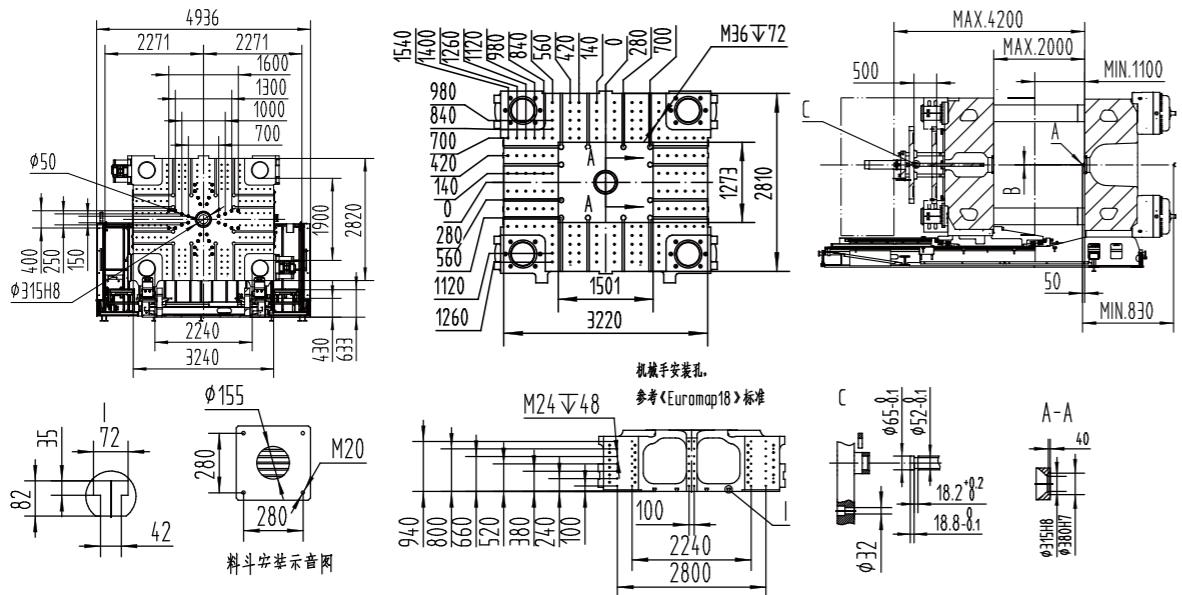
Injection Unit										
Model	IU18500				IU23750			IU37500		IU50000
Screw diameter (mm)	135	145	155	165	145	155	165	185	200	
Shot volume (cm ³)	10020	11559	13208	14968	12385	14152	16037	26343	35186	
Shot weight (g)	9218	10634	12152	13770	11394	13020	14756	24235	32371	
Injection pressure (MPa)	184	160	140	123	190	167	147	151	158	
L/D ratio	23.6	22	22	20	23.5	22	20.1	22	22	
Injection rate (cm ³ /s)	1295	1494	1717	1936	1532	1750	1983	1934	1843	
Max.injection speed (mm/s)					91		92.7	71.9	58.7	
Screw stroke (mm)					700		750	980	1120	
Max.screw speed (r/min)					120		120	80	67	
Barrel heating zone (PCS)					8		10	11	9	
Clamping Unit										
Clamping force (kN)								28500		
Opening force (kN)								2200		
Platen size (mm)								2970×2680		
Space between tie bars (mm)								2180×1755		
Max. mold thickness (mm)								2010		
Min. mold thickness (mm)								790		
Opening stroke (mm)								3110		
Max. daylight (mm)								3900		
Ejector force (kN)								460		
Ejector stroke (mm)								500		
Ejector number (PCS)								33		
Power unit										
System pressure (MPa)					17.5/30		17.5/30	17.5/30	17.5/30	
Pump motor (kW)					89+66+11		110+89+11	110+89+11	110+89+11	
Total power (kW)					263.8		322.4	357.5	403	
Heater power (kW)					97.8		112.4	147.5	193	
General										
Oil tank capacity (L)					2100		2850	2850	2850	
Machine dimensions (m)					14.1×4.8×4.0		16.6×4.8×4.0	16.6×4.8×4.0	17.0×4.8×4.0	
Max. mold weight (T)					75		75	75	75	

- Opening force refers to mold opening force generated during high-pressure mold open.
- In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to opening stroke with maximum mold height.
- Mold-bearing capacity of the movable platen is 2/3 of total mold weight.
- The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
- Three kinds of screws are available for each model and the medium one is standard on the machine.
- The injection unit data are in international units and calculated as follows: theoretical shot volume [cm³] × injection pressure (MPa)/100
- The green figures are standard specifications of clamping unit and injection unit.
- Because of constant technical improvement, the machine specifications are subject to change without notice.

UN3400D1 Machine Dimensions



UN3400D1 Platen Dimensions



Model	A	B	L	H1	H2	W	W1	W2	Main power cord size	Full-load current	Bearing capacity of foundation	Mold cooling water ports	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
	mm	mm	mm	mm	mm	mm	mm	mm	mm ²	A	t/m ²	n×L/min	L/min	bar	bar
UN3400D1-IU23750	SR25	Ø8	17173.5	3065	4052	3660.5	1847.5	1813	185	643.48	14.5	(8+8)×11	200	3~4	5~6
UN3400D1-IU37500	SR25	Ø8	17173.5	3075	4081	3660.5	1847.5	1813	185	643.48	14.5	(8+8)×11	200	3~4	5~6
UN3400D1-IU50000	SR28	Ø12	17563.5	3151	4138	3660.5	1847.5	1813	185	643.48	14.5	(8+8)×11	200	3~4	5~6

UN3400D1 Specifications

Injection Unit				
Model	IU23750		IU37500	IU50000
Screw diameter (mm)	145	155	165	200
Shot volume (cm ³)	12385	14152	16037	35186
Shot weight (g)	11394	13020	14756	32371
Injection pressure (MPa)	190	167	147	158
L/D ratio	23.5	22	20.1	22
Injection rate (cm ³ /s)	1532	1750	1983	1843
Max.injection speed (mm/s)		92.7	71.9	58.7
Screw stroke (mm)		750	980	1120
Max.screw speed (r/min)		120	80	67
Barrel heating zone (PCS)		10	11	9
Clamping Unit				
Clamping force (kN)			34000	
Opening force (kN)			2550	
Platen size (mm)			3220×2810	
Space between tie bars (mm)			2240×1900	
Max. mold thickness (mm)			2000	
Min. mold thickness (mm)			1100	
Opening stroke (mm)			3100	
Max. daylight (mm)			4200	
Ejector force (KN)			460	
Ejector stroke (mm)			500	
Ejector number (PCS)			33	
Power unit				
System pressure (MPa)	17.5/30		17.5/30	17.5/30
Pump motor (kW)	110+89+11		110+89+11	110+89+11
Total power (kW)	322.4		357.5	403
Heater power (kW)	112.4		147.5	193
General				
Oil tank capacity (L)	2850		2850	2850
Machine dimensions (m)	17.2×5.0×4.1		17.2×5.0×4.1	17.6×5.0×4.2
Max. mold weight (T)	81		81	81

1. Opening force refers to mold opening force generated during high-pressure mold open.
 2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to opening stroke with maximum mold height.
 3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.
 4. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
 5. Three kinds of screws are available for each model and the medium one is standard on the machine.
 6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm^3] \times injection pressure (MPa)/100
 7. The green figures are standard specifications of clamping unit and injection unit.
 8. Because of constant technical improvement, the machine specifications are subject to change without notice.

Main Part List

(Standard) Part Name	Brand/Specifications	Place of Brand
Control system	KEBA	Austria
Oil seal	SKF	Sweden
Guide ring	SKF	Sweden
Directional valve	Rexroth/YUKEN/Atos	Germany/Japan/Italy
Proportional relief valve	YUKEN/Hydraulik Power	Japan/TAIWAN,CHINA
High-response proportional valve	Rexroth	Germany
Shaft seal cartridge valve	Rexroth	Germany
Cartridge type electromagnetic ball valve	HYDAC	Germany
Variable piston pump	Rexroth	Germany
Pressure sensor	Danfoss	Denmark
Magnetostrictive displacement sensor	Germanjet	Germany
Gear pump	SUMITOMO/HYTEK	Japan/CHINA
Servo motor	PHASE/MODROL	Italy/CHINA
Barrel assembly	HAYEUR/TONGDA	CHINA
Hydraulic motor	DANDUN/POCLAIN	CHINA/France
Tie bar	HUAXIAN/GENERAL&GENESIS	CHINA
Tie bar locking nut	HUAXIAN/GENERAL&GENESIS	CHINA
Clamping piston	HUAXIAN/GENERAL&GENESIS	CHINA
Clamping cylinder cover	YGG/QSQY	TAIWAN,CHINA / CHINA
Platen	YGG/QSQY/ZHONGTIAN	TAIWAN,CHINA / CHINA
Servo drive	PHASE/MODROL/INVANCE	Italy/CHINA/CHINA
Solid state relay	KUDOM	UK
Automatic switch	ABB	Switzerland
Air switch	FUJI	Japan
Position limit switch	SCHMERSAL/Schneider/Panasonic	Germany/France/Japan
Proximity switch	AUTONICS	Korea
AC contractor	FUJI	Japan

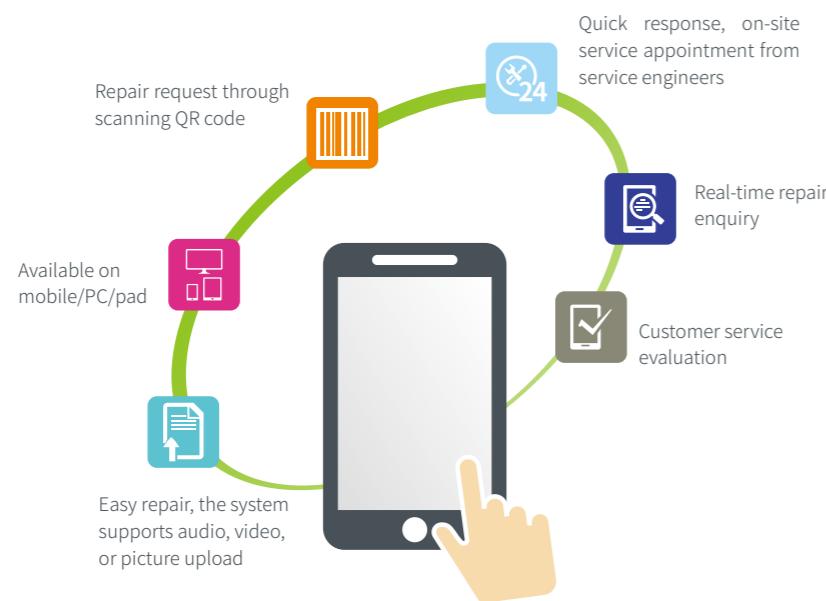
Standard and Optional Features

● Clamping unit	
Clamping mechanism with tie bars independent of moving platen	● ○
Quantitative volumetric automatic lubrication system	● ○
High-response proportional control of pressure and flow for mold open & mold close	● ○
Hydraulically-driven ejection device	● ○
Low-pressure mold protection	● ○
Clamping force adjustment as needed	● ○
Forced reset function	● ○
Ejector return protection	● ○
Robot mounting hole (Euromap 18)	● ○
Electric door (optional for below or at 700T machine)	● ○
T-slot platen	● ○
Four clamp platens made of high-rigidity ductile iron	● ○
Hydraulic and electrical safety devices	● ○
Safety foot plate in mold area (optional for below or at 700T machine)	● ○
High-accuracy magnetostrictive displacement sensor for mold open/close control	● ○
Mold with reset spring	● ○
Safety foot plate in front & rear door areas	○ ○
Synchronous ejection and core pulling	○ ○
Secondary mold closing	○ ○
Quick mold change system platform	○ ○
Hydraulic mold clamp	○ ○
Magnetic platen	○ ○
Increased mold thickness	○ ○
Increased ejector stroke	○ ○
Mold lifting device	○ ○
Heat insulating plate of mold	○ ○
Special mold mounting hole	○ ○
Increased mold opening stroke	○ ○
Larger ejection force	○ ○
● Electric control system	
Closed-loop PID barrel temperature control	● ○
Manual, semi-auto and fully-auto operating mode	● ○
Input and output inspection interface	● ○
Automatic display of alarm messages and acousto-optic alarm system	● ○
Built-in software with the oscilloscope function	● ○
Unlimited technical parameter storage	● ○
Automatic mold height adjustment	● ○
Chinese and English operating system	● ○
Safety gate emergency stop function	● ○
Online cycle monitoring	● ○
12" TFT color touch screen	● ○
Visualized graphic programming	● ○
PDP interface	● ○
Injection monitoring protection	● ○
Mold-close monitoring protection	● ○
Statistical process control (SPC) interface	● ○
Electrical enclosure rated IP54	● ○
Screw speed detecting device	● ○
Time/position/time + position control modes for switchover to holding phase	● ○
Protective plate in mold area	● ○
3 sets of 380V 32A socket (2 sets for 500T-900TD1)	● ○
1 set of 380V 16A socket (2 sets for 500T-900TD1)	● ○
16-level password security	● ○
Reserved robot interfaces based on SPI, EUROMAP 12	● ○
Automatic heat preserving, automatic heating settings	● ○
Servo injection	○ ○
Electric unscrewing device	○ ○
Hot runner interface	○ ○
Auxiliary emergency stop button	○ ○
Air blast in mold	○ ○
Power supply change	○ ○
● Other	
User manual	● ○
Adjustable leveling pad	● ○
8-in 8-out water manifold on platen (with general, quick connectors)	● ○
Nozzle spanner	● ○
Mold clamp	● ○
Hopper (standard on UN500-900D1)	○ ○
Hydraulic oil (standard on UN500-1400D1)	○ ○
Loading platform	○ ○
Mold temperature controller	○ ○
Automatic loader	○ ○
Dehumidification dryer	○ ○

YFO:6 Premium Services



YIZUMI e-service⁽²⁴⁾



Global Operations

