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Stock code: 300415

Designed by Yizumi in November 2019

DP Series Two-platen Injection Molding Machine

(500T-3400T)

广东伊之密精密注压科技有限公司
GUANGDONG YIZUMI PRECISION INJECTION MOLDING AND DIE CASTING TECHNOLOGY CO., LTD.

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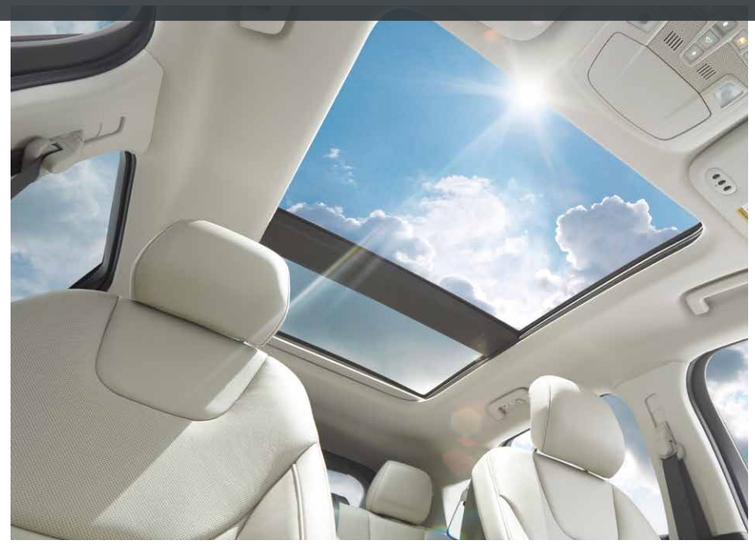
YIZUMI 伊之密

DP Series Two-platen Injection Molding Machine

Yizumi's cost-effective two-platen injection molding machine not only brings high productivity for injection molding production, but also higher return on use value to customers through stable performance and high product quality. DP series is your trustworthy better choice in the long term.



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Three Value Propositions

Precision & Stability

- High-response servo valve control technology and ultrasonic displacement sensor are applied to mold closing and opening, with accurate position control and mold-open repeatability up to ±0.1mm.
- Fully-closed-loop control of the injection and hold (pressure and velocity) stages, numerically-controlled proportional back pressure and part repeatability ⩽ 3‰.

High Efficiency & Energy Saving

- Clamping unit is highly rigid. There is no contact and frictional resistance between the movable platen and tie bars so that motion becomes faster. With the diagonally-positioned high-speed cylinders, four short-stroke high-pressure cylinders and synchronous locking nut mechanism, mold closing and closing and generation of clamping force happen in less time and dry cycle becomes very short, reducing cycle time and improving productive efficiency by 22%.
- The high-performance Ecoservo drive and piston variable pump system can provide pressure and flow as needed and has merits of strong power and fast response, consuming 56% less energy than traditional drive systems.

Special Processes

◆ Based on Germany modular design and excellent equipment structure, a variety of special processes solutions, such as injection compression molding (ICM) technology, FoamPro microcellular foam technology, precision mold-open technology, secondary mold-close technology, carbon fiber-based lightweighting technology, long glass fiber (LGF) injection molding technology and multi-material micro injection molding technology are available.

Modular Design

Precise, Efficient, Energy-saving

High-rigidity platen and precise mold opening

Box-shape platen is designed for high rigidity and high parallelism. Mold closing and opening are controlled by high-response servo valve with mold-open repeatability up to ±0.1mm.

Higher efficiency

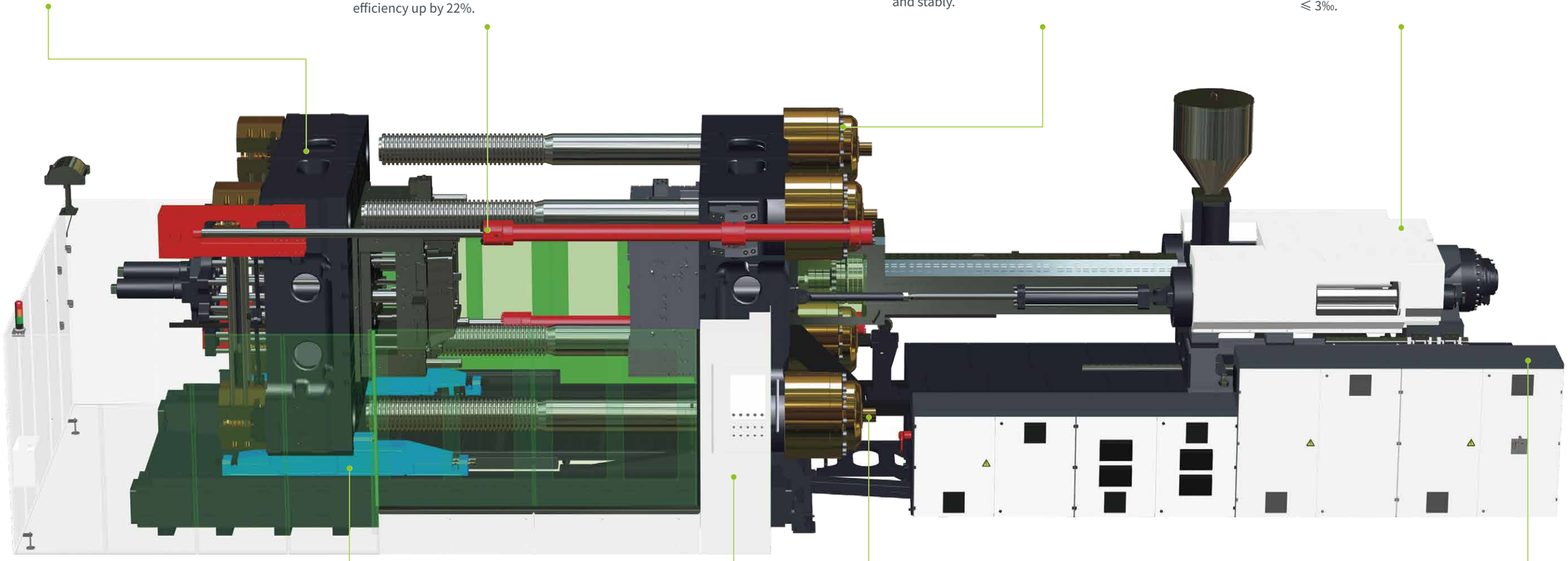
With further optimized clamping unit, mold closing and opening and generation of clamping force happen in shorter time and dry cycle time (EUROMAP 6, dry cycle time of UN1000DP up to 4.1sec) is reduced, with productive efficiency up by 22%.

More reliable and stable clamping unit

The high-pressure clamping cylinder, parallel locking nut mechanism and tie bars are made of high-quality materials and subject to special technical processing so that they are durable and reliable. Tie bars are designed with uniform stress distribution, which ensures the clamping unit works reliably and stably.

Better injection precision

Double parallel cylinders and patented dual proportional closed-loop control technology are applied to injection, with high injection repeatability and repeatability of part weight ⩽ 3‰.



Steadier mold support

The moving platen is supported by extended rigid sliding shoes with the function of tilt adjustment and L-shape guide design, providing steady support and precise guidance for the mold.

Professional control system

Austria's KEBA controller works faster and it is powerful enough to offer a variety of control software solutions for special processes.

More accurate position control

Measurement of stroke is performed by the ultrasonic displacement sensor which is resistant to interference and durable, with accuracy up to 0.001%/F.S.

Lower energy consumption

High-performance Ecoservo drive technology, a standard feature for the DP series, is integrated with the piston variable pump system to offer strong power and fast response, resulting in 56% less energy consumption.

※ Data above are reference criteria for factory test.

DP Series Two-platen Injection Molding Machine

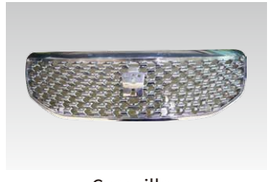
Offer You Multiple Solutions

Injection Unit											
Model	4800	6150	9000	12050	18500	23750	31750	44500	54500	75500	100000
UN800DP*	84,92,100	92,100,108	100,108,116	116,125,135							
UN900DP*	84,92,100	92,100,108	100,108,116	116,125,135							
UN1000DP*		92,100,108	100,108,116	116,125,135	135,145,155						
UN1100DP*		92,100,108	100,108,116	116,125,135	135,145,155						
UN1300DP*			100,108,116	116,125,135	135,145,155	145,155,165					
UN1500DP*			100,108,116	116,125,135	135,145,155	145,155,165					
UN1700DP			100,108,116	116,125,135	135,145,155	145,155,165	155,165,180				
UN1850DP			100,108,116	116,125,135	135,145,155	145,155,165	155,165,180				
UN2000DP				116,125,135	135,145,155	145,155,165	155,165,180	180,190,200			
UN2300DP				116,125,135	135,145,155	145,155,165	155,165,180	180,190,200	190,200,215	215,230,245	230,245,260
UN2700DP					135,145,155	145,155,165	155,165,180	180,190,200	190,200,215	215,230,245	230,245,260
UN3000DP					135,145,155	145,155,165	155,165,180	180,190,200	190,200,215	215,230,245	230,245,260
UN3200DP					135,145,155	145,155,165	155,165,180	180,190,200	190,200,215	215,230,245	230,245,260
UN3400DP					135,145,155	145,155,165	155,165,180	180,190,200	190,200,215	215,230,245	230,245,260

*Calculation of injection unit model based on international standards: shot volume [cm^3] × max. injection pressure [bar]/1000

*Larger platens are optional (see specifications).

Application Examples

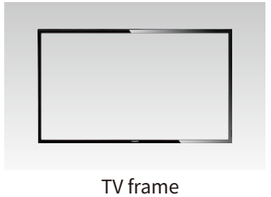


Car grille

Car light

Bumper

Washing machine tub



TV frame

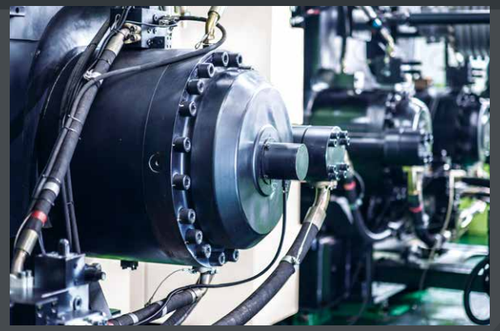
Air conditioner panel

Plastic pallet

Rubbish bin

Clamping Unit

- High-rigidity platens are designed as box structures with high degree of parallelism, large space between tie bars, large mold thickness and long mold-open stroke.
- Mold closing and opening are controlled by high-response and high-speed proportional valves, with mold opening repeatability up to ±0.1mm.
- Diagonally-positioned high-speed cylinders enable mold closing and opening to be faster and effectively shorten dry cycle.
- Clamping force is quickly generated thanks to the synchronous locking nut mechanism and four short-stroke high-pressure cylinders.
- Compact two-platen clamp unit saves space by 20%.



① No contact between tie bars and movable platen

No frictional resistance, faster mold opening and closing, no need of tie bar lubrication and clean mold area without oil stain.

② High-pressure mold opening

High-pressure cylinders offer large mold opening force, which solves the problem of difficult mold opening in the production of deep-cavity parts.

③ Synchronous locking nut mechanism

The fast, reliable and durable synchronous locking nut mechanism is driven by patented impact-cushioning cylinders and performs movements accurately.

④ Highly-rigid extended platen supports

The moving platen is supported by exceptionally long, rigid sliding shoes with the function of tilt adjustment and L-shape guide design, providing steady support and precise guidance for large molds.

⑤ Safety foot plates

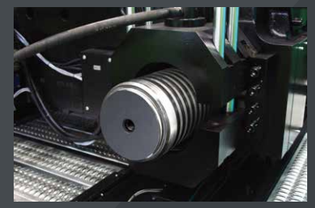
Large areas of safety foot plates that harbor no oil or water are mounted in the areas of front and rear safety gates and mold. Separate safety switches are connected to the controller for safety, completely conforming to GB22530-2008 national safety standard.

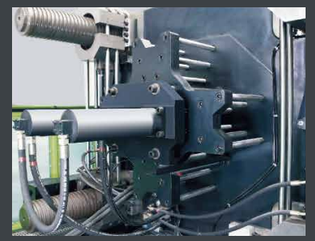
⑥ Open ejector mechanism

The open double-cylinder ejector mechanism is easy to install and maintain. Ejection synchronized with mold opening and forced ejector-backward are available.

⑦ Automatic tie bar retraction

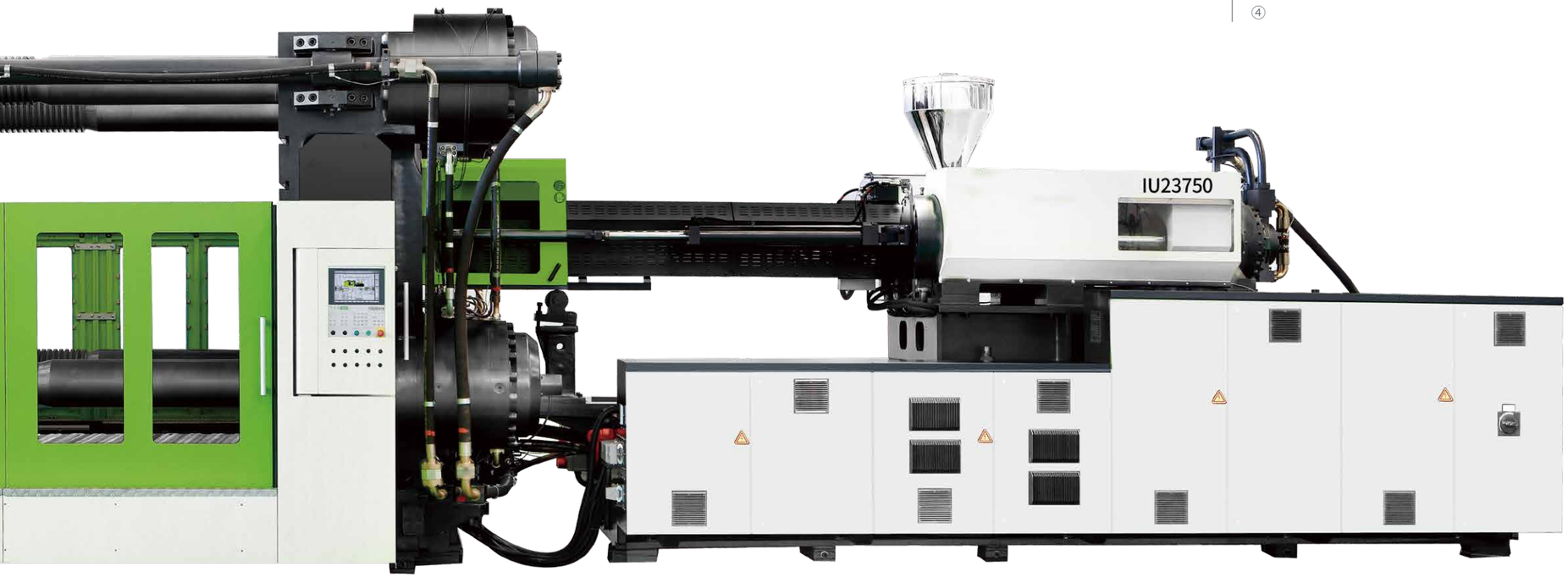
The automatic tie bar retraction function is optional and designed with stability and reliability. It can remove the restriction of factory ceiling height.





Injection Unit

- Thanks to modular design, each clamping unit can be combined with different injection units to meet diversified needs of injection molding applications.
- Combination of advanced drive technology and further optimized plasticizing unit brings better plasticizing effect, so that molding of precision parts is no longer difficult.
- Double-parallel-cylinder injection, fully-closed-loop control of the injection and hold (pressure and velocity) stages, numerically-controlled proportional back pressure and stable injection end position ensure part repeatability is less than or equal to 3‰.
- Ceramic heater bands are used for barrel heating and it is under self-tuning PID temperature control performed by Austria's KEBA controller, with control accuracy up to±0.5℃. The heater bands have long service life and low energy consumption.
- Specialized bi-metallic barrel assembly resistant to wear and corrosion is optional to meet requirements of different materials.



① Carriage supports and linear guide rails

High-rigidity carriage supports and double-deck guide rails are designed with low resistance and ensure high injection precision.

② Ultrasonic digital displacement sensor

Injection and injection carriages are equipped with ultrasonic displacement sensors which are resistant to interference and durable, with measurement accuracy up to 0.001%/F.S.

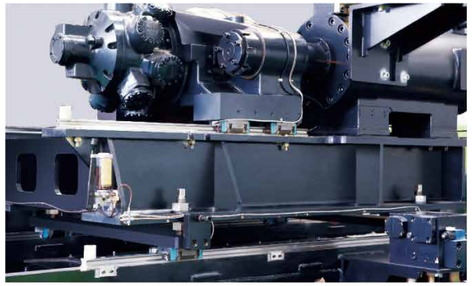
③ Quick barrel change mechanism

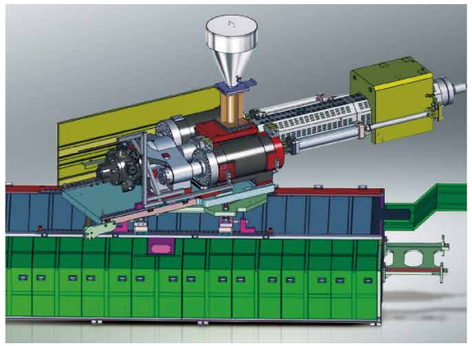
Barrel is mounted with a press plate. The injection unit and barrel assembly are detachable as a whole, which greatly shortens the barrel unit replacement time.

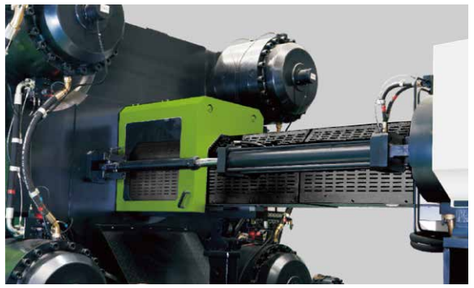
④ Injection carriage cylinder

Two injection carriages are parallel located. The universal coupling used for connection ensures stable nozzle contact and no plastic leak.

① ② ③ ④







Hydraulic System

- The excellent performance of DP series benefits from the high-performance Ecoservo drive technology and the piston variable pump, which has strong power, fast response, little internal leak and significant energy savings.
- The drive system and injection unit will be matched in the form of modules so as to customize the power for machine and minimize energy loss.
- Mold opening during plasticizing, ejection or core pulling is a standard feature that reduces cycle time.

① Precision filtration and cooling system

The hydraulic system includes Germany's HYDAC low-pressure oil filter and cooling system, with separate filtration and cooling. Filter fineness up to 5μm ensures clean hydraulic circuit, stable oil temperature and reliable, durable hydraulic components.

② Humanized design

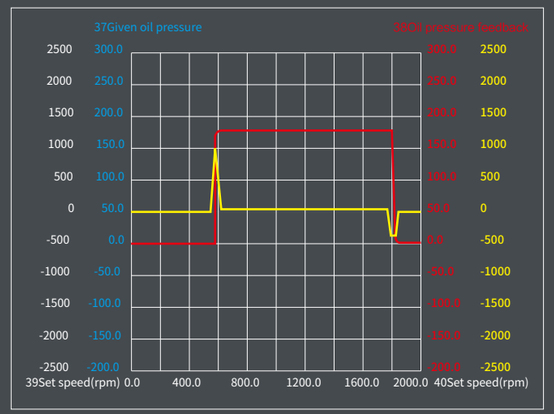
The cabinet of the drive unit is designed with L-shape covers available to opened, which is maintenance-friendly.

③ Fast response

With the use of advanced Ecoservo drive technology, the system response time is only 50ms.

④ Strong power

The power system employs Italy's branded servo motor and imported piston variable pump, with fast response, high overload capacity, double energy savings and energy consumption reduction up to 56%.



Data above are reference criterions for factory tests.

Control System

- DP series employs Austria's KEBA control system with user-friendly interface and higher processing speed. It is also powerful and capable of providing multiple control software solutions for special processes.
- 12"TFT color touch screen, visualized graphic parameter setting, actual parameter values recorded and displayed with curves, more accurate online process analysis
- Free programming is available to meet the needs of special molds and processes. The sequence of machine movements also can be freely edited.
- Extensible I/O modules can integrate with more functions, including temperature control and sequence valve as needed.
- Communication ports for printer, auxiliary equipment and automation.

Professional control system
Powerful and accurate in control

Quick process parameters setting and easy operation

◆ Stable, fast and accurate control

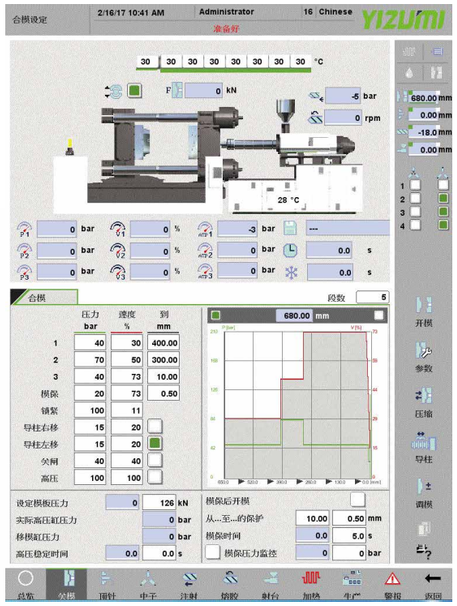
- Double-CPU control, 1ms of scan cycle, faster response and high reliability
- Real-time accurate control of mold closing and opening and injection by the intelligent high-response closed-loop controller

◆ Easy to operate

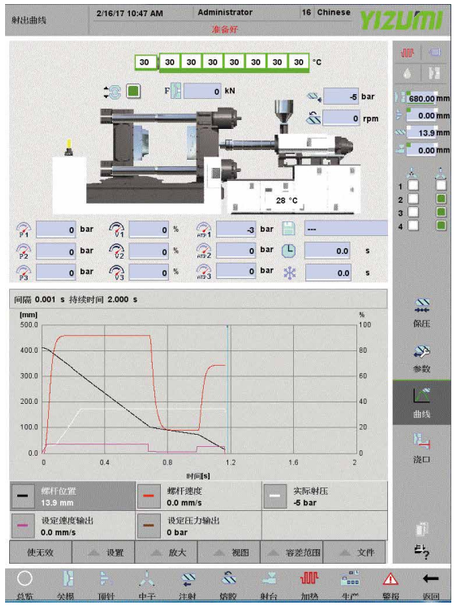
- Networked remote control
- Online conversion of multiple languages and units
- Multiple means of quick input, such as graph and virtual keyboard
- Easy and convenient process parameter setting

◆ Data and safety

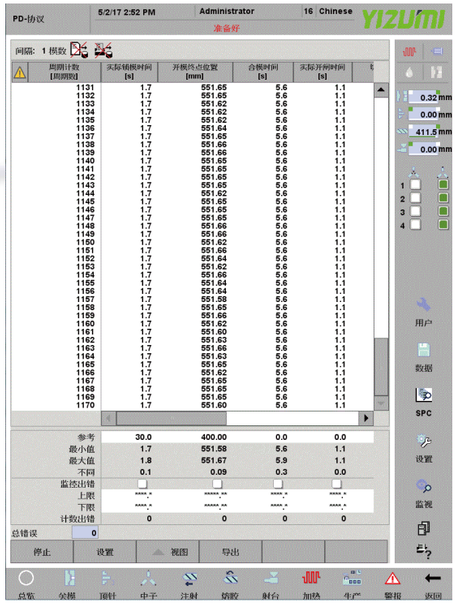
- Storage of process data without limit
- Memory of alarm and process parameter change
- Process quality control (PDP), statistical process control (SPC) and data export
- Multi-level user access ensuring data safety, multiple protections of equipment and operator through software and hardware



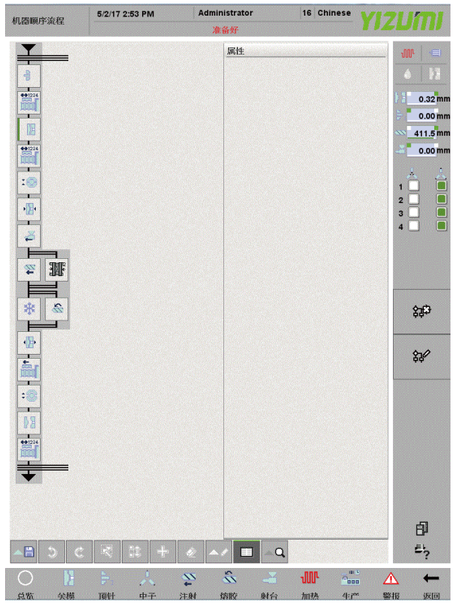
Mold closing settings



Injection curve



Production process data control



Sequence of machine movements

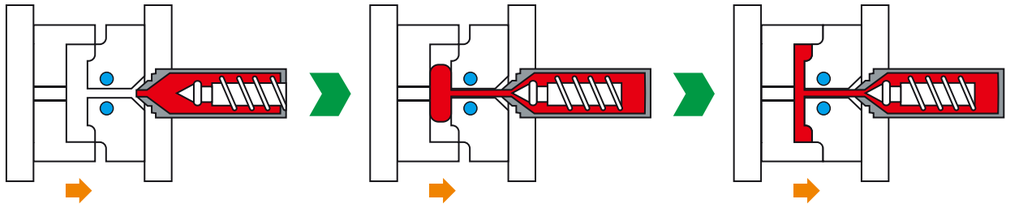
DP Series Two-platen Injection Molding Machine

Special Processes

With the use of rigorous and innovative Germany processes, DP series gives every material distinctive properties and provides new ideas of application and efficient, intelligent material combinations.

Yizumi is committed to becoming a leader in China' s injection molding machine industry and provide you with cost-saving injection molding solutions and the best investment return.

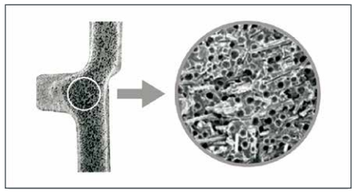
Low-pressure injection molding technology

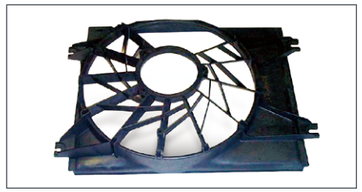


Technical points:

- Injection compression molding (ICM) function
- SmartClamp technology realizes automatic calibration of platen parallelism, with response accuracy up to ±0.015mm/2ms.

FoamPro microcellular foam technology





Technical points:

- SmartClamp technology
- Alternative temperature technology (ATT)
- Aircraft aluminum mold technology
- FLEXflow servo-driven hot runner system

※Data above are reference criteria for factory test.

High-pressure mold opening

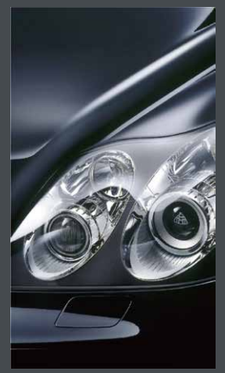
- Mold opening driven by high-pressure cylinders with large opening force
- Solution to difficult mold-open in the manufacture of deep-cavity parts

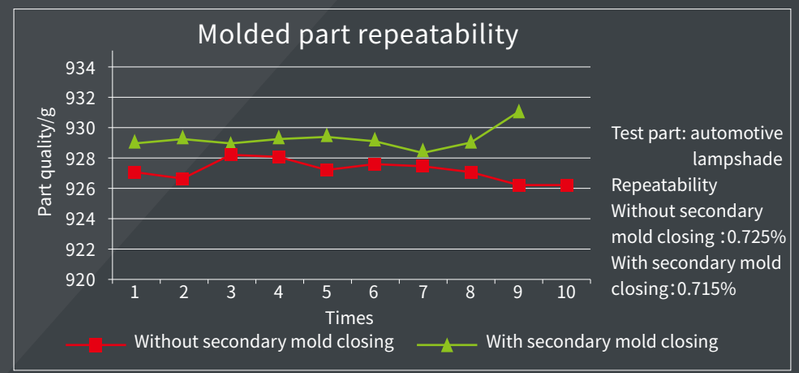
Applied to production of deep-cavity parts, including washing machine drum, rubbish bin and storage box

Secondary mold closing

- Mold closing for the second time with larger pressure
- Effectively prevent possible internal stress in molded parts and air trap
- Improve the accuracy and appearance quality of molded parts for higher QC passing rate

For automotive applications, such as car lights and applications in household appliances industry





Carbon fiber molding

Carbon fiber has been widely used in passenger cars. The greatest advantage of carbon fiber as an automotive material is light and strong, which will facilitate breakthroughs in automotive lightweighting and bring a social benefit: energy saving. In the future, “high carbon fiber” will become increasingly popular.

Reaction technology

- HP-RTM (high-pressure resin transfer molding), completed with the use of preform, steel mold, vacuum-aided exhaust, high-pressure injection and high pressure, thermoset composites impregnation and solidification technologies
- Insitu polymerization technology

Injection molding technology

- Carbon fiber composite preform
- Processes such as heating, press forming, back injection and trimming of preform

Technology of multi-material micro injection molding via second injection unit

- Higher added value of molded part
- Enhanced mechanical property of molded part
- Better appearance of molded part
- Improved productive efficiency
- Less investment cost

Technical points:

- Accurate horizontal rotator positioning and control technology
- Spray painted part surface replaced by high-gloss appearance

Main Part List

(Standard) Part Name	Brand/Specifications	Place of Brand
Control system	KEBA	Austria
Oil seal	SKF	Sweden
Guide ring	SKF	Sweden
Dust seal	SKF	Sweden
Directional valve	Rexroth/YUKEN	Germany / Japan
Proportional relief valve	Rexroth/YUKEN	Germany / Japan
High-response proportional valve	Rexroth	Germany
Shaft seal cartridge valve	Rexroth	Germany
Safety valve	Rexroth	Germany
Cartridge type electromagnetic ball valve	Rexroth/HYDAC	Germany
Shuttle valve	HYDAC/Hydraulik Power	Germany / Taiwan
Variable piston pump	Rexroth/YUKEN	Germany/Japan
Pressure sensor	Danfoss	Denmark
Low-pressure oil filter & oil cooler	HYDAC	Germany
Magnetostrictive displacement sensor	MTS	USA
DTFLOCK self-locking nut	DTF	USA
Hydraulic motor	STAFFA/HAGGLUNDS/POCLAIN	UK/Sweden/France
Servo motor	PHASE	Italy
Barrel assembly	TAN STAR/HAYEUR	TAIWAN,CHINA
Tie bar	GENERAL&GENESIS	TAIWAN,CHINA
Tie bar locking nut	GENERAL&GENESIS	TAIWAN,CHINA
Clamping piston	GENERAL&GENESIS	TAIWAN,CHINA
Clamping cylinder cover	YGG/QSQY	TAIWAN,CHINA / CHINA
Platen	YGG/QSQY	TAIWAN,CHINA / CHINA
Servo drive	Inovance/PHASE	CHINA/Italy
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

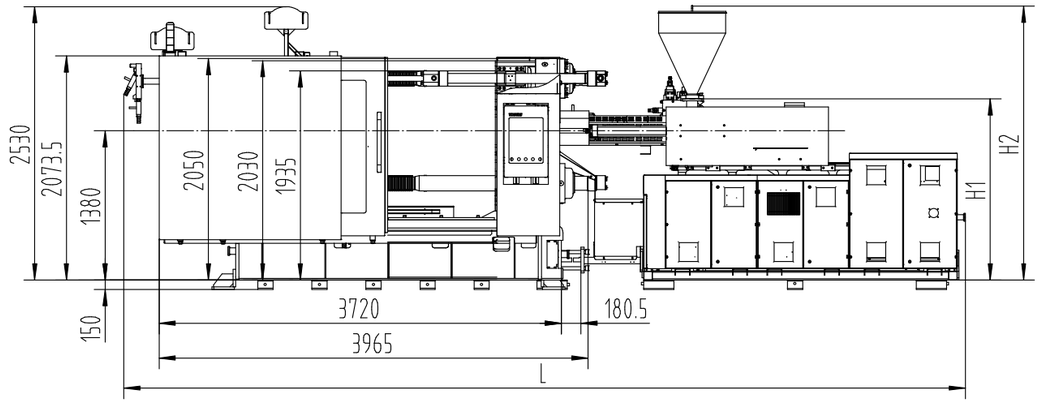
Standard and Optional Features

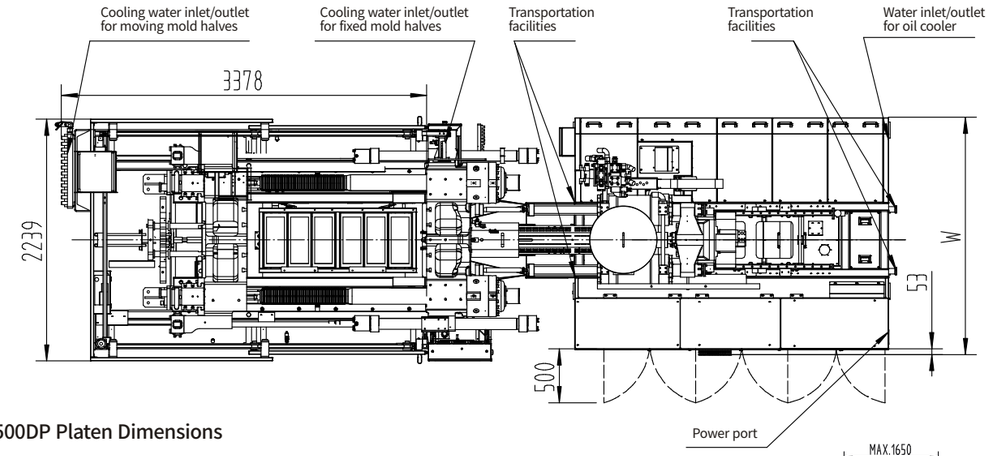
● Standard feature ○ Optional feature

	Standard	Optional
● Clamping Unit		
- Clamping mechanism with tie bars independent of moving platen	●	
- High-rigidity clamping frame	●	
- Quantitative volumetric automatic lubrication system	●	
- High-response servo control of pressure and flow for mold opening and closing	●	
- Open ejection mechanism hydraulically-driven by double parallel cylinders	●	
- High-accuracy ultrasonic displacemAent sensor measuring stroke of tie bars, mold opening and closing and ejection	●	
- High-rigidity box-shape platen	●	
- Low-pressure mold protection	●	
- Electrically-protected safety foot plates of mold area and safety gates	●	
- One-button automatic mold adjustment	●	
- Clamping force adjustment as needed	●	
- Ejection/ tie bar reset/ plasticizing/ core pulling during mold opening	●	
- Robot mounting hole as per EUROMAP 18	●	
- Fixed platen with solid sliding bearing	●	
- Platen with T-slot and mold mounting hole	●	
- Sliding support with steel-base copper alloy lubricating bearing	●	
- Hardened spring steel strips and guide rails	●	
- Four platens made of high-rigidity ductile iron	●	
- Hydraulic and electrical safety devices	●	
- Secondary mold closing	●	
- Low-pressure injection molding	●	
- Forced return of main ejector pin	●	
- Electrical door(for 500-700DP only)	●	
- Quick mold change system		○
- Hydraulic mold clamp		○
- Magnetic platen		○
- Heat insulating plate of mold		○
- Special mold mounting hole		○
- Special-sized mold locating ring		○
- Increased mold opening stroke		○
- Increased mold thickness		○
- Increased ejector stroke		○
- Larger ejection force		○
- Mold-open cylinders exchange		○
- Automatic tie bar retraction (upper tie bars optional)		○
- Ejector-backward protection switch		○
- Ladder for maintenance of fixed platen		○
- Central water pan		○
- Stainless steel material receiving pan		○
● Electrical Control System		
- PID closed-loop control of barrel and nozzle temperature	●	
- 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	●	
- Chinese and English operating system	●	
- Safety gate emergency stop function	●	
- Online cycle monitoring	●	
- 12"TFT color touch screen	●	
- Visualized graphic programming	●	
- PDP interface	●	
- Auto-protection of injection monitoring	●	
- Auto-protection of mold closing monitoring	●	
- Statistical process control (SPC) interface	●	
- Electrical enclosure rated IP54	●	
- Screw speed detecting device	●	
- Time/ position/ time + position control modesfor switchover to holding pressure	●	
- 3 sets of (800-3400DP) / 2 sets of (500-700DP) 380V 32A socket	●	
- 1 set of (800-3400DP) / 2 sets of (500-700DP) 380V 16A socket	●	
- 1 set of multi-function 220V socket	●	
- 16-level password security	●	
- EUROMAP 12 robot interfaces	●	
- Automatic heat preserving, automatic heating and group heating settings	●	
- Phase sequence protection	●	
- Warning or motor switch-off due to stepping on safety foot plate	●	
- Electric unscrewing device		○
- Hot runner control system		○
- Auxiliary emergency stop		○
- Air blast		○
- Change power supply voltage		○
- Central (networked) monitoring system		○
- Protective light grid of safety gates		○
- Opto-electronic safety switch of front and rear safety gates		○
- Protective light grid of central safety foot plate		○
- Safety switch for front safety door edge		○
- Robot interfaces based on SPI, EUROMAP 67 and customization		○
- KEBA 8000 control system		○
● Injection Unit		
- Double cylinder injection unit	●	
- With low speed large torque hydraulic motor	●	
- Nitride alloy Steel screw and barrel	●	
- Heat preservation cover for barrel and safety nozzle cover (with electrical protection)	●	
- High-accuracy ultrasonic displacement sensor measuring stroke of injection, plasticizing and carriage	●	
- 10-stage injection speed/ pressure/ position control	●	
- 10-stage holding pressure speed/ pressure/position/ time control	●	

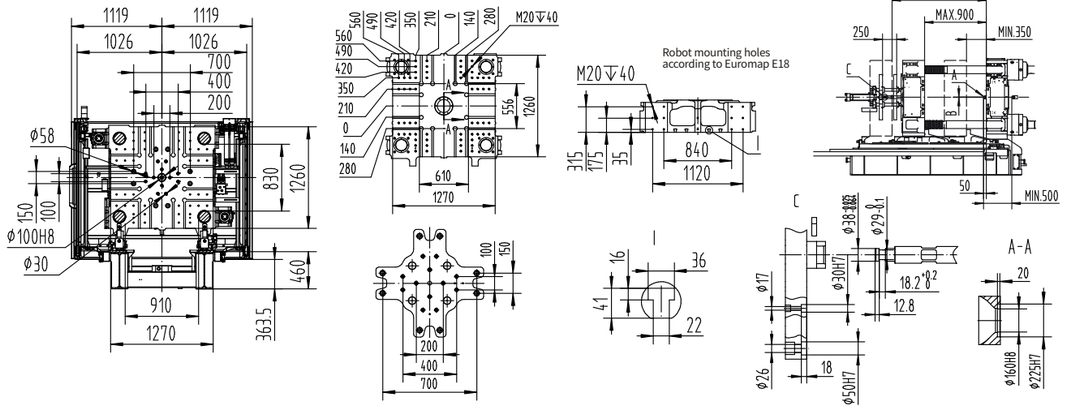
	Standard	Optional
- 5-stage plasticizing speed/ pressure/ position control	●	
- Selectable suck-back before or after plasticizing	●	
- Linear guides for injection carriage	●	
- Linear guides for injection	●	
- Double-deck injection unit	●	
- Double carriage cylinders	●	
- Protective cover of injection unit	●	
- Screw cold start protection	●	
- Suck back function	●	
- Automatic material cleaning	●	
- Manual central lubrication system of injection unit	●	
- Ceramic heater band	●	
- Screw rotation measuring device	●	
- Lifting and change of the whole barrel assembly	●	
- Mounting interface for hopper loading platform	●	
- Mixing screw		○
- Bi-metallic screw barrel		○
- Swivel injection unit		○
- Extended nozzle (50/100/150/200mm longer)		○
- Special screw components		○
- Barrel heat-retaining energy-saving device (silicone cover)		○
- Spring shut-off nozzle		○
- Increased injection stroke		○
- Servo injection system		○
- Nitrogen injection system		○
- Special low-pressure injection molding system		○
- MuCell system		○
- System dedicated to UPVC pipe fitting		○
- Accumulator system for large shot volume production		○
- Hopper loading platform		○
- Auxiliary ladder		○
- Hopper sliding device		○
- Enlarged plasticizing motor		○
- Second injection unit for micro injection molding		○
- Carriage transducer(500-700DP)		○
● Hydraulic System		
- High-performance servo pump system	●	
- Real-time display of the pressure of power unit via pressure sensor	●	
- High-precision low-pressure oil filter	●	
- Imported-brand hydraulic valve	●	
- Low-noise energy-saving hydraulic circuit	●	
- Proportional back pressure control for plasticizing	●	
- Proportional pressure control of injection	●	
- Reliable hydraulic piping	●	
- Modular combination of power	●	
- Oil pre-heating system	●	
- Oil level monitoring and alarm	●	
- Openable protective cover of pump motor	●	
- 500 - 700 DP: 2 sets of electrical connectors of core puller/ unscrewing devices. 1 set each on the fixed platen and moveable platen. 800 - 2300 DP: 4 sets of electrical connectors of core puller/ unscrewing devices. 2 sets each on the fixed platen and moveable platen. 2700 - 3400 DP: 6 sets of electrical connectors of core puller/ unscrewing devices. 3 sets each on the fixed platen and moveable platen.	●	
- Differential mold opening circuit	●	
- Injection and mold-close pressure protection	●	
- High-pressure mold opening	●	
- Precision independent filtration and cooling systems	●	
- Automatic pressure and flow calibration	●	
- Imported branded seal	●	
- Automatic oil temperature inspection and alarm	●	
- Panel cooler and automatic cooling pump	●	
- 6 sets of sequence (injection) valve interface	●	
- Closed-loop proportional variable displacement pump system		○
- Variable displacement pump system		○
- High-response accumulating servo injection system		○
- Enlarged oil cooler		○
- Enlarged multi-capacity pump motor		○
- Closed loop servo control of injection, plasticizing, holding pressure and back pressure		○
- Plasticizing during mold opening (quick plasticizing)		○
- Multiple sets of electrical connectors of core puller or unscrewing devices (optional, increasable)		○
- Core puller pressure relief		○
- Gate pressure relief		○
- Quick connector for core puller and hydraulic gate		○
- Independent hydraulic gate control system		○
● Other		
- Operation Manual	●	
- Adjustable leveling pad	●	
- 10-in-10-out (800 - 3400 DP) / 8-in-8-out (500 - 700 DP) water regulator with fast connector in moving and fixed platen.	●	
- Special nozzle wrench	●	
- Stainless steel hopper	●	
- Glass-tube cooling water flowmeter	●	
- Mold clamp		○
- Mold temperature controller		○
- Automatic loader		○
- Dehumidification dryer		○
- Other auxiliary equipment		○

UN500DP Machine Dimensions





UN500DP Platen Dimensions



Model	A	B	L	H1	H2	W	Sectional area of main power cord	Full-load current	Bearing capacity of foundation	Number of cooling water line port ①	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
	mm	mm	mm	mm	mm	mm	mm^2	A	T/m^2	n×L/min	L/min	bar	bar
UN500DP-IU1885	SR10	ø3.5	7781	1617	2360	2198	70	160.5	7.5	(8+8)×11	160	3~4	5~6
UN500DP-IU2695	SR15	ø4	7781	1677	2452	2198	70	191.5					
UN500DP-IU3330	SR15	ø4	7781	1550	2710	2198	70	201.8					
UN500DP-IU4800	SR15	ø4.5	8681	1565	2430	2333	70	239.9					

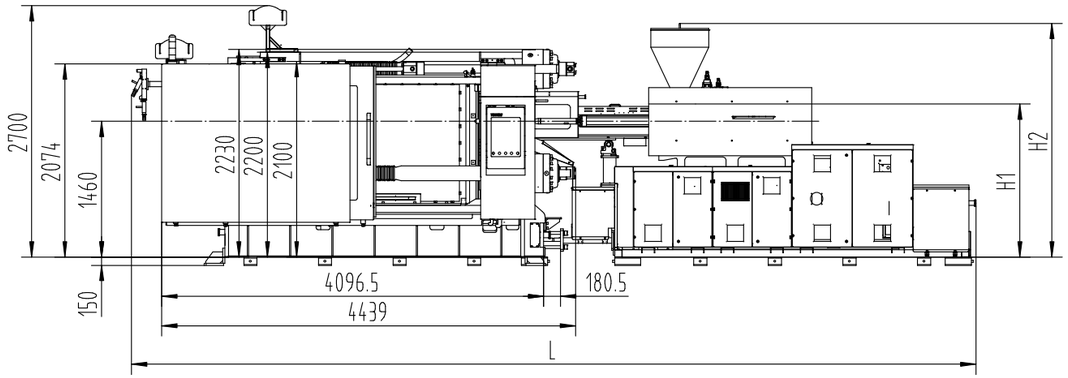
Technical Specifications of UN500DP

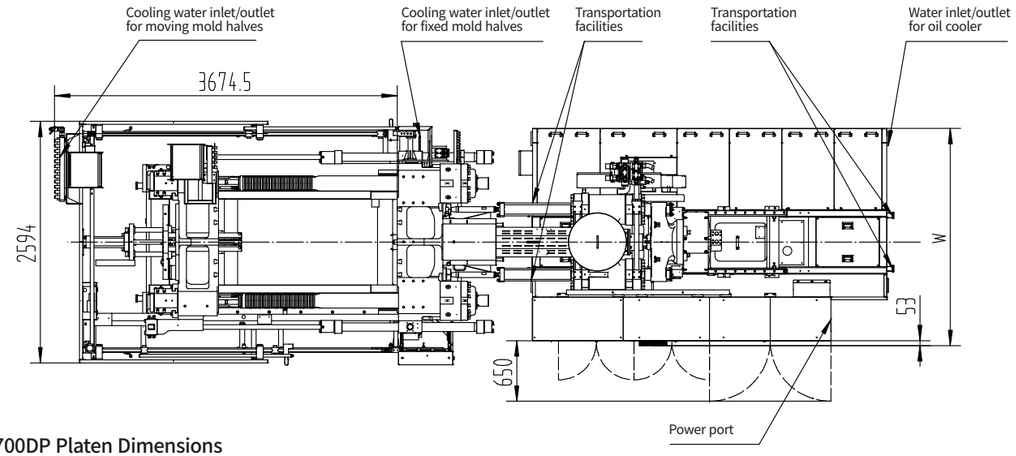
UN500DP													
Description	UNIT												
Injection Unit													
Model		1885			2695			3330			4800		
Screw diameter	mm	60	68	76	68	76	84	76	84	92	84	92	108
Theoretical shot volume	cm^3	834	1071	1338	1198	1497	1829	1678	2050	2460	2217	2659	3664
Shot weight(GPPS)	g	767	986	1231	1103	1377	1683	1544	1886	2263	2039	2446	3371
Injection pressure	MPa	226	176	141	225	180	147	199	162	136	218	181	131
Screw L:D ratio	L/D	22.6	20	20	22.3	20	20	22.1	20	20	21.9	20	20
Injection rate	cm^3/s	322	414	517	383	478	584	430	526	632	516	619	853
Max. injection speed	mm/s	114			105			95			93		
Screw stroke	mm	295			330			370			400		
Max. screw speed	r/min	250			184			147			154		
Screw torque	N.m	2787			4459			5573			6967		
Heating capacity	kW	22.2	22.2	24.6	26.4	26.4	30.9	33.1	33.1	36.2	37.82	37.82	47
Barrel heating zone number	PCS	5			6			6			6		
Nozzle contact force	kN	131.9			131.9			131.9			247.3		
Clamping Unit													
Clamping force	kN	5000											
Opening force	kN	390											
Platen size	mm	1270×1260											
Space between tie bars	mm	910×830											
Mold thickness	mm	350-900											
Max. opening stroke	mm	1300											
Max. daylight	mm	1650											
Ejector force	kN	110											
Ejector stroke	mm	250											
Ejector number	PCS	21											
Electrical&hydraulic Unit													
System pressure	Mpa	17.5，30			17.5，30			17.5，30			17.5，30		
Motor	kW	39.4+16.4+7.5			39.4+28.7+7.5			39.4+28.7+7.5			55.6+28.7+7.5		
Total power	kW	85.5	85.5	87.9	102	102	106.5	108.7	108.7	111.8	129.6	129.6	138.8
General													
Oil tank capacity	L	650			750			750			1000		
Dry cycle	s/mm	5/637			4.4/637			4.4/637			4.2/637		
Max. mold weight	T	8			8			8			8		
Machine weight (clamping + injection units, no oil)	T	12+4			12+5			12+5.5			12+6.5		
Machine dimensions	m	7.8×2.4×2.6			7.8×2.4×2.6			7.8×2.4×2.6			8.7×2.4×2.6		

Note:

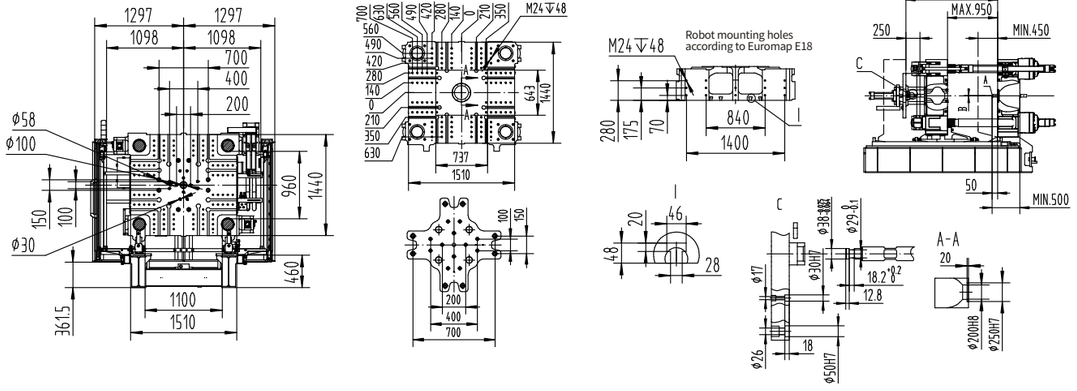
1. Dry cycle time accords with EUROMAP 6.
2. The load-bearing capacity of the moving platen is 2/3 of the total mold weight.
3. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
4. The injection unit data are in international units and calculated as follows: theoretical shot volume[cm^3]×injection pressure [Mpa]/100
5. Because of constant technical improvement, the machine specifications are subject to change without notice.

UN700DP Machine Dimensions





UN700DP Platen Dimensions



Model	A	B	L	H1	H2	W	Sectional area of main power cord	Full-load current	Bearing capacity of foundation	Number of cooling water line port	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
	mm	mm	mm	mm	mm	mm	mm^2	A	T/m^2	n×L/min	L/min	bar	bar
UN700DP-IU2695	SR15	ø4	8158	1757	2622	2198	70	191.5	7.5	(8+8)×11	160	3~4	5~6
UN700DP-IU3330	SR15	ø4	8158	1757	2630	2198	70	201.8					
UN700DP-IU4800	SR15	ø4.5	9058	1645	2510	2333	70	239.9					
UN700DP-IU6800	SR15	ø4.5	9058	1645	2510	2711	75	285.2					

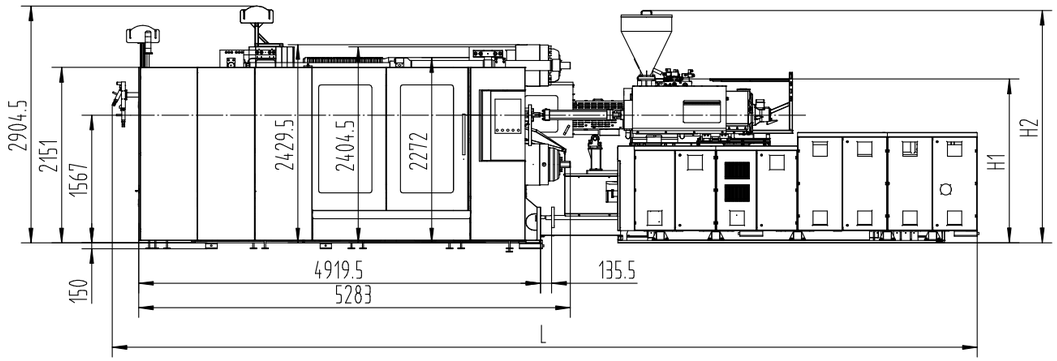
Technical Specifications of UN700DP

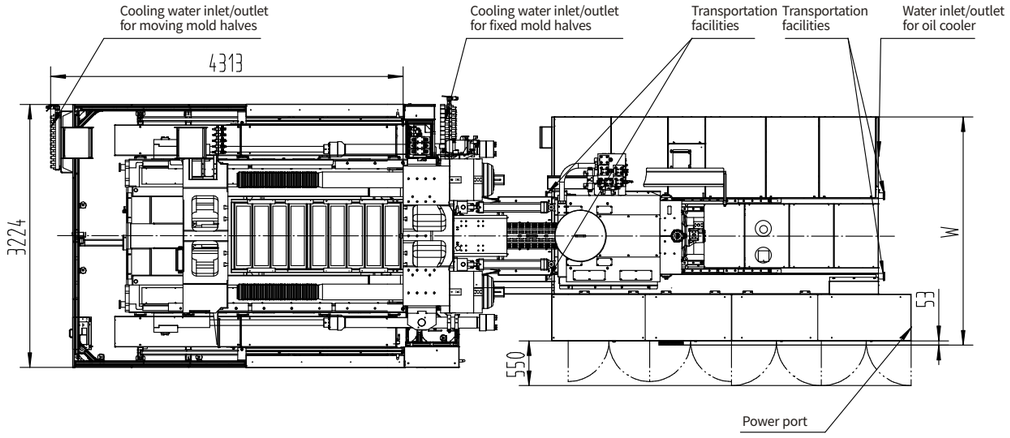
UN700DP													
Description	UNIT												
Injection Unit													
Model		2695			3330			4800			6800		
Screw diameter	mm	68	76	84	76	84	92	84	92	108	92	100	116
Theoretical shot volume	cm^3	1198	1497	1829	1678	2050	2460	2217	2659	3664	3191	3770	5073
Shot weight(GPPS)	g	1103	1377	1683	1544	1886	2263	2039	2446	3371	2936	3468	4667
Injection pressure	MPa	225	180	147	199	162	136	218	181	131	213	180	134
Screw L:D ratio	L/D	22.3	20	20	22.1	20	20	21.9	20	20	21.7	20	20
Injection rate	cm^3/s	383	478	584	578	683	797	516	619	853	615	726	980
Max. injection speed	mm/s	105			95			93			92.5		
Screw stroke	mm	330			370			400			480		
Max. screw speed	r/min	184			147			154			145		
Screw torque	N.m	4459			5573			6967			8778		
Heating capacity	kW	26.4	26.4	30.9	33.1	33.1	36.2	37.82	37.82	47	47	47	56.6
Barrel heating zone number	PCS	6			6			6			7		
Nozzle contact force	kN	131.9			131.9			247.3			247.3		
Clamping Unit													
Clamping force	kN	7000											
Opening force	kN	500											
Platen size	mm	1510×1440											
Space between tie bars	mm	1100×960											
Mold thickness	mm	450-950											
Max. opening stroke	mm	1450											
Max. daylight	mm	1900											
Ejector force	kN	110											
Ejector stroke	mm	250											
Ejector number	PCS	21											
Electrical&hydraulic Unit													
System pressure	Mpa	17.5，30			17.5，30			17.5，30			17.5，30		
Motor	kW	39.4+28.7+7.5			39.4+28.7+7.5			55.6+28.7+7.5			60+39.4+7.5		
Total power	kW	102	102	106.5	108.7	108.7	111.8	129.6	129.6	138.8	153.9	153.9	163.5
General													
Oil tank capacity	L	750			750			1000			1150		
Dry cycle	s/mm	5.8/770			5.8/770			4.8/770			4.5/770		
Max. mold weight	T	11			11			11			11		
Machine weight (clamping + injection units, no oil)	T	16+5			16+5.5			16+6.5			16+8.5		
Machine dimensions	m	8.2×2.7×2.7			8.2×2.7×2.7			9.1×2.7×2.7			9.1×2.7×2.7		

Note:

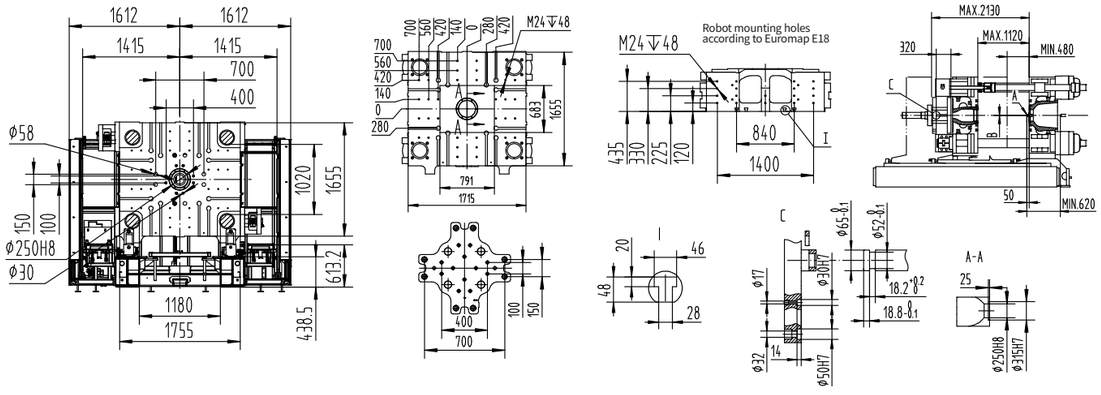
1. Dry cycle time accords with EUROMAP 6.
2. The load-bearing capacity of the moving platen is 2/3 of the total mold weight.
3. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
4. The injection unit data are in international units and calculated as follows: theoretical shot volume[cm^3]×injection pressure [Mpa]/100
5. Because of constant technical improvement, the machine specifications are subject to change without notice.

UN800DP/UN900DP Machine Dimensions





UN800DP/UN900DP Platen Dimensions



Model	A	B	L	H1	H2	W	Sectional area of main power cord	Full-load current	Bearing capacity of foundation	Number of cooling water line port	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
	mm	mm	mm	mm	mm	mm	mm^2	A	T/m^2	n×L/min	L/min	bar	bar
UN800DP/900DP-IU4800	SR15	ø4.5	10591	2006	2849	2798	70	230.2	8	(10+10)×11	160	3~4	5~6
UN800DP/900DP-IU6150	SR15	ø4.5	10591	2026	2869	2798	95	281.4					
UN800DP/900DP-IU9000	SR15	ø4.5	10666	2026	2869	2842	95	305.1					
UN800DP/900DP-IU12050	SR20	ø6	10666	2181	3024	2842	120	347.3					

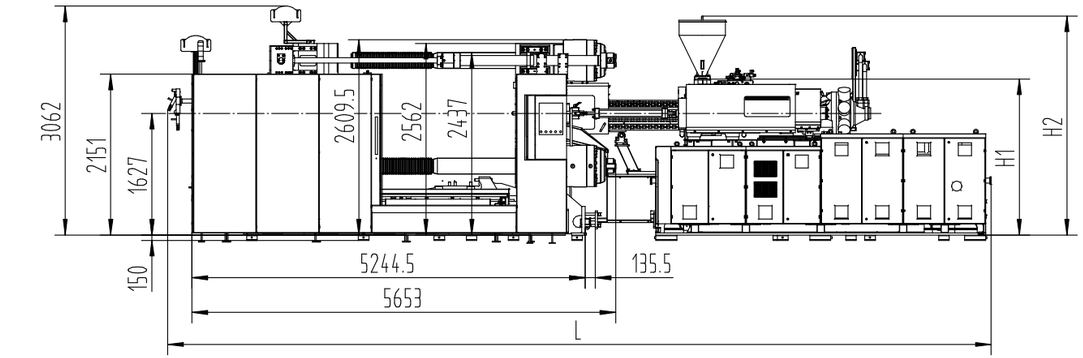
Technical Specifications of UN800DP/UN900DP

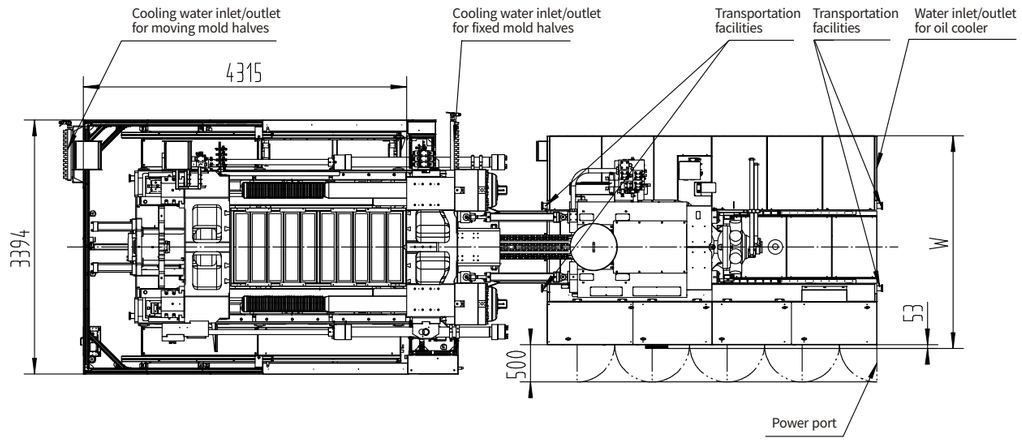
UN800DP/UN900DP													
Description	UNIT												
Injection Unit													
Model		4800			6150			9000			12050		
Screw diameter	mm	84	92	100	92	100	108	100	108	116	116	125	135
Theoretical shot volume	cm^3	2217	2659	3142	2892	3416	3985	4320	5038	5813	6341	7363	8588
Shot weight(GPPS)	g	2039	2446	2890	2660	3143	3666	3974	4636	5347	5833	6774	7901
Injection pressure	MPa	218	181	154	213	180	155	209	179	155	190	164	140
Screw L:D ratio	L/D	21.9	20	20	21.7	20	20	21.6	20	20	22.1	20	20
Injection rate	cm^3/s	467	560	662	578	683	797	766	894	1031	913	1060	1236
Max. injection speed	mm/s	89.0			86.9			97.6			86.4		
Screw stroke	mm	400			435			550			600		
Max. screw speed	r/min	154			139			128			113		
Screw torque	N.m	6688			8639			11982			14769		
Heating capacity	kW	38.16	38.16	41.66	47.56	47.56	51.96	46.52	46.52	51.32	66.39	66.39	70.65
Barrel heating zone number	PCS	6			7			7			8		
Nozzle contact force	kN	178.6			178.6			178.6			178.6		
Clamping Unit													
Clamping force	kN	8000/9000											
Opening force	kN	760											
Platen size	mm	1755×1655											
Space between tie bars	mm	1180×1020											
Mold thickness	mm	480-1120											
Max. opening stroke	mm	1650											
Max. daylight	mm	2130											
Ejector force	kN	220											
Ejector stroke	mm	320											
Ejector number	PCS	17											
Electrical&hydraulic Unit													
System pressure	Mpa	17.5 , 25			17.5 , 25			17.5 , 25			17.5 , 25		
Motor	kW	28.7×2+39.4			31×2+39.4			55.6+31+39.4			55.6×2+39.4		
Total power	kW	134.6	134.6	138.1	149	149	153.4	172.5	172.5	177.3	217	217	221.2
General													
Oil tank capacity	L	1200			1200			1500			1500		
Dry cycle	s/mm	4.8/826			4.8/826			4.5/826			4.5/826		
Max. mold weight	T	14			14			14			14		
Machine weight (clamping + injection units, no oil)	T	32+10			32+11			32+12			32+14		
Machine dimensions	m	10.5x3.3x2.9			10.5x3.3x2.9			10.6×3.3×2.9			10.6×3.3×3.1		

Note:

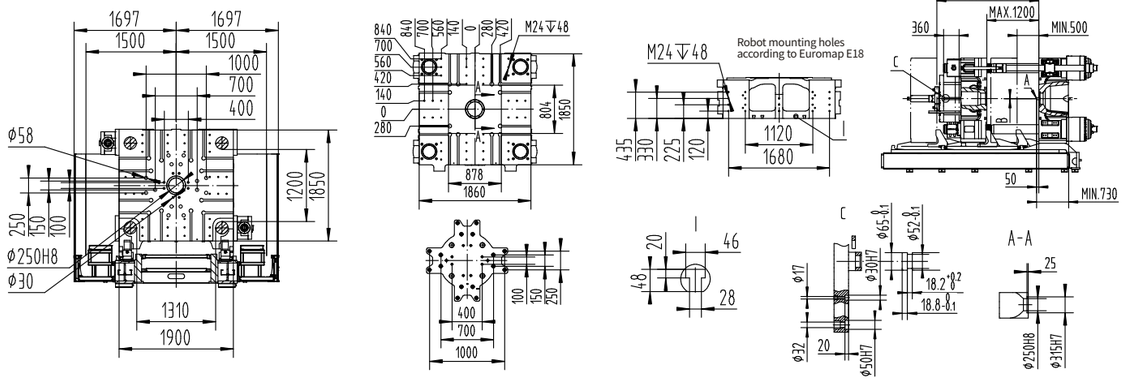
1. Dry cycle time accords with EUROMAP 6.
2. The load-bearing capacity of the moving platen is 2/3 of the total mold weight.
3. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
4. The injection unit data are in international units and calculated as follows: theoretical shot volume[cm^3]×injection pressure [Mpa]/100
5. Because of constant technical improvement, the machine specifications are subject to change without notice.

UN1000DP/UN1100DP Machine Dimensions





UN1000DP/UN1100DP Platen Dimensions



Model	A	B	L	H1	H2	W	Sectional area of main power cord	Full-load current	Bearing capacity of foundation	Number of cooling water line port	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
	mm	mm	mm	mm	mm	mm	mm²	A	T/m²	n×L/min	L/min	bar	bar
UN1000DP/1100DP-IU6150	SR15	ø4.5	10916	2086	2928	2798	95	281.4	8	(10+10)×11	160	3~4	5~6
UN1000DP/1100DP-IU9000	SR15	ø4.5	10991	2086	2928	2842	95	305.1					
UN1000DP/1100DP-IU12050	SR20	ø6	10991	2241	3083	2842	120	347.3					
UN1000DP/1100DP-IU18500	SR20	ø8	11991	2536	3378	3595	150	517.6					

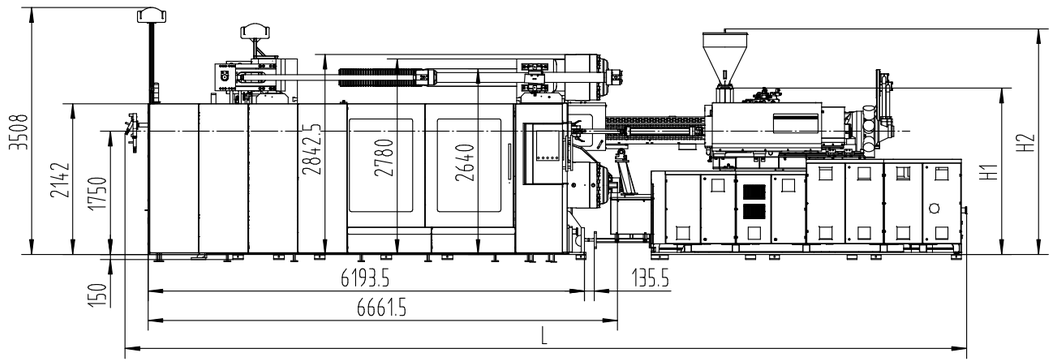
Technical Specifications of UN1000DP/UN1100DP

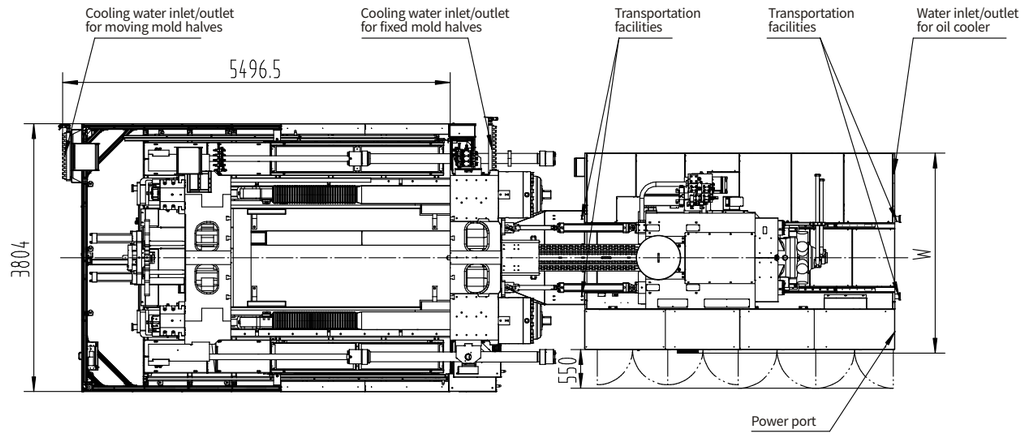
UN1000DP/UN1100DP													
Description	UNIT												
Injection Unit													
Model		6150			9000			12050			18500		
Screw diameter	mm	92	100	108	100	108	116	116	125	135	135	145	155
Theoretical shot volume	cm^3	2892	3416	3985	4320	5040	5812	6341	7363	8588	10020	11559	13208
Shot weight(GPPS)	g	2660	3143	3666	3974	4636	5347	5833	6774	7901	9218	10634	12152
Injection pressure	MPa	213	180	155	209	179	155	190	164	140	184	160	140
Screw L:D ratio	L/D	21.7	20	20	21.6	20	20	22.1	20	20	23.6	22	20
Injection rate	cm^3/s	578	683	797	766	894	1031	913	1060	1236	1251	1444	1650
Max. injection speed	mm/s	86.9			97.6			86.4			87.4		
Screw stroke	mm	435			550			600			700		
Max. screw speed	r/min	139			128			113			118		
Screw torque	N.m	8639			11982			14769			18949		
Heating capacity	kW	47.56	47.56	51.96	46.52	46.52	51.32	66.39	66.39	70.65	98.9		
Barrel heating zone number	PCS	7			7			8			8		
Nozzle contact force	kN	178.6			178.6			178.6			296.7		
Clamping Unit													
Clamping force	kN	10000/11000											
Opening force	kN	875											
Platen size	mm	1860×1850											
Space between tie bars	mm	1310×1200											
Mold thickness	mm	500-1200											
Max. opening stroke	mm	1850											
Max. daylight	mm	2350											
Ejector force	kN	274											
Ejector stroke	mm	360											
Ejector number	PCS	25											
Electrical&hydraulic Unit													
System pressure	Mpa	17.5 , 25			17.5 , 25			17.5 , 25			17.5 , 25		
Motor	kW	31×2+39.4			55.6+31+39.4			55.6×2+39.4			60×3		
Total power	kW	149	149	153.4	172.5	172.5	177.3	217	217	221.2	278.9		
General													
Oil tank capacity	L	1200			1500			1500			2400		
Dry cycle	s/mm	6/917			5.8/917			5.6/917			5.5/917		
Max. mold weight	T	20			20			20			20		
Machine weight (clamping + injection units, no oil)	T	40+11			40+12			40+14			40+22		
Machine dimensions	m	10.9×3.4×3.0			10.9×3.4×3.0			10.9×3.4×3.1			11.9×3.6×3.4		

Note:

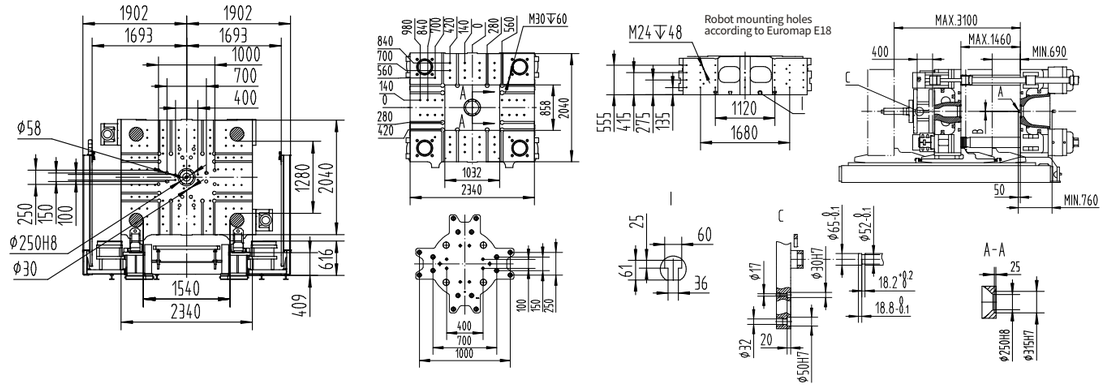
1. Dry cycle time accords with EUROMAP 6.
2. The load-bearing capacity of the moving platen is 2/3 of the total mold weight.
3. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
4. The injection unit data are in international units and calculated as follows: theoretical shot volume[cm^3]×injection pressure [Mpa]/100
5. Because of constant technical improvement, the machine specifications are subject to change without notice.

UN1300DP/UN1500DP Machine Dimensions





UN1300DP/UN1500DP Platen Dimensions



Model	A	B	L	H1	H2	W	Sectional area of main power cord	Full-load current	Bearing capacity of foundation	Number of cooling water line port	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
	mm	mm	mm	mm	mm	mm	mm^2	A	T/m^2	n×L/min	L/min	bar	bar
UN1300DP/1500DP-IU9000	SR15	ø4.5	11940	2209	3051	2842	95	305.1	10.5	(10+10)×11	160	3~4	5~6
UN1300DP/1500DP-IU12050	SR20	ø6	11940	2364	3206	2842	120	347.3					
UN1300DP/1500DP-IU18500	SR20	ø8	12940	2514	3501	3595	150	517.6					
UN1300DP/1500DP-IU23750	SR25	ø8	13540	2534	3540	3434	150	627.3					

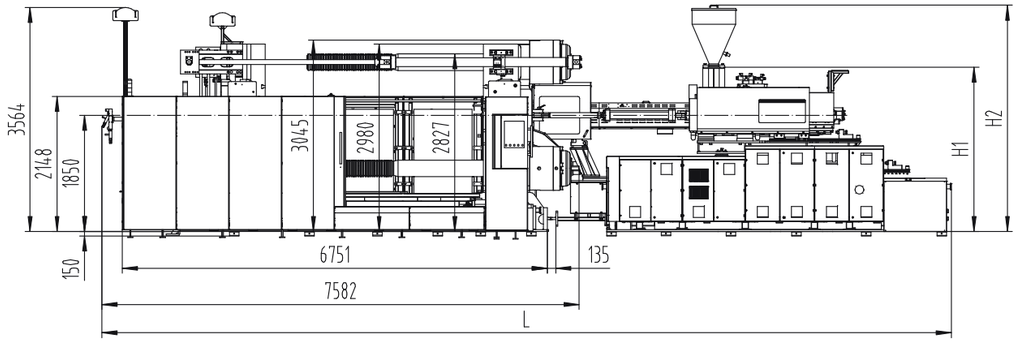
Technical Specifications of UN1300DP/UN1500DP

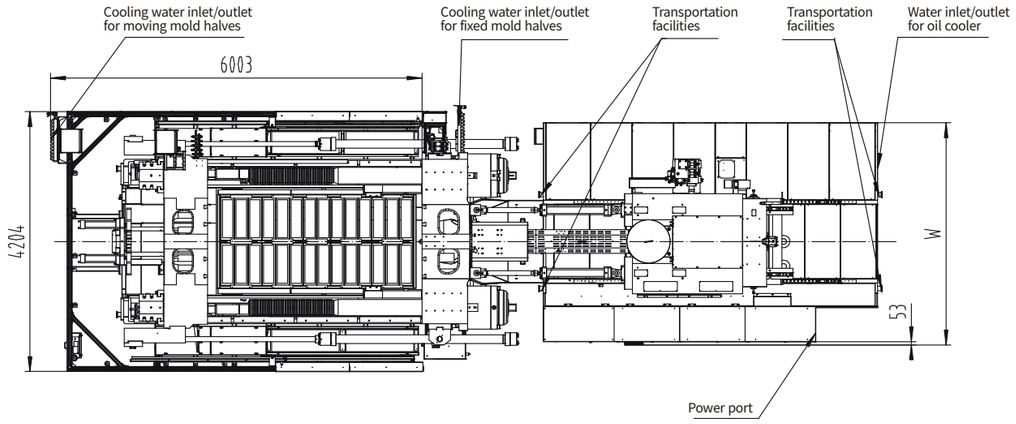
UN1300DP/UN1500DP													
Description	UNIT												
Injection Unit													
Model		9000			12050			18500			23750		
Screw diameter	mm	100	108	116	116	125	135	135	145	155	145	155	165
Theoretical shot volume	cm^3	4320	5039	5812	6341	7363	8588	10020	11559	13208	12385	14152	16037
Shot weight(GPPS)	g	3974	4636	5347	5833	6774	7901	9218	10634	12152	11394	13020	14756
Injection pressure	MPa	209	179	155	190	164	140	184	160	140	192	168	148
Screw L:D ratio	L/D	21.6	20	20	22.1	20	20	23.6	22	20	23.5	22	20.1
Injection rate	cm^3/s	766	894	1031	913	1060	1237	1251	1444	1650	1505	1715	1950
Max. injection speed	mm/s	97.6			86.4			87.4			91.1		
Screw stroke	mm	550			600			700			750		
Max. screw speed	r/min	128			113			118			114		
Screw torque	N.m	11982			14769			18949			24522		
Heating capacity	kW	46.52	46.52	51.32	66.39	66.39	70.65	98.9			112.39		
Barrel heating zone number	PCS	7			8			8			10		
Nozzle contact force	kN	178.6			178.6			296.7			296.7		
Clamping Unit													
Clamping force	kN	13000/15000											
Opening force	kN	1230											
Platen size	mm	2340×2040											
Space between tie bars	mm	1540×1280											
Mold thickness	mm	690-1460											
Max. opening stroke	mm	2410											
Max. daylight	mm	3100											
Ejector force	kN	300											
Ejector stroke	mm	400											
Ejector number	PCS	25											
Electrical&hydraulic Unit													
System pressure	Mpa	17.5 , 25			17.5 , 25			17.5 , 25			17.5 , 25		
Motor	kW	55.6+31+39.4			55.6×2+39.4			60×3			60×3+55.6		
Total power	kW	172.5	172.5	177.3	217	217	221.2	278.9			348		
General													
Oil tank capacity	L	1500			1500			2400			2600		
Dry cycle	s/mm	7.2/1078			6.8/1078			6.7/1078			6.4/1078		
Max. mold weight	T	30			30			30			30		
Machine weight (clamping + injection units, no oil)	T	57+12			57+14			57+22			57+23		
Machine dimensions	m	11.9×3.8×3.5			11.9×3.8×3.5			12.9×3.8×3.5			13.5×3.8×3.6		

Note:

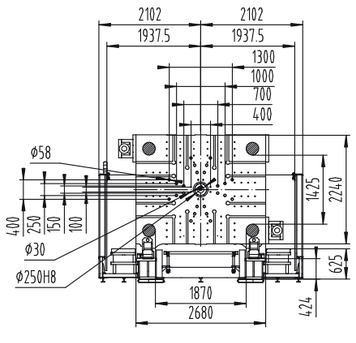
1. Dry cycle time accords with EUROMAP 6.
2. The load-bearing capacity of the moving platen is 2/3 of the total mold weight.
3. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
4. The injection unit data are in international units and calculated as follows: theoretical shot volume[cm^3]×injection pressure [Mpa]/100
5. Because of constant technical improvement, the machine specifications are subject to change without notice.

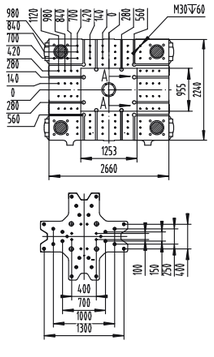
UN1700DP/UN1850DP Machine Dimensions

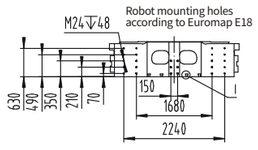


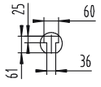


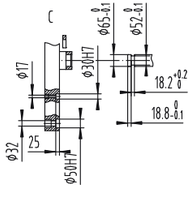
UN1700DP/UN1850DP Platen Dimensions

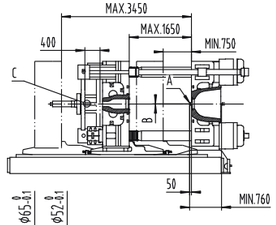


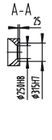












Model	A	B	L	H1	H2	W	Sectional area of main power cord	Full-load current	Bearing capacity of foundation	Number of cooling water line port	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
	mm	mm	mm	mm	mm	mm	mm^2	A	T/m^2	n×L/min	L/min	bar	bar
UN1700DP/1850DP-IU9000	SR15	ø4.5	12497	2309	3151	2842	95	305.1	10.5	(10+10)×11	200	3~4	5~6
UN1700DP/1850DP-IU12050	SR20	ø6	12497	2464	3306	2842	120	347.3					
UN1700DP/1850DP-IU18500	SR20	ø8	13497	2614	3601	3595	150	517.6					
UN1700DP/1850DP-IU23750	SR25	ø8	14097	2634	3640	3434	150	627.3					
UN1700DP/1850DP-IU31750	SR25	ø8	14597	2670	3676	3702	185	780.9					

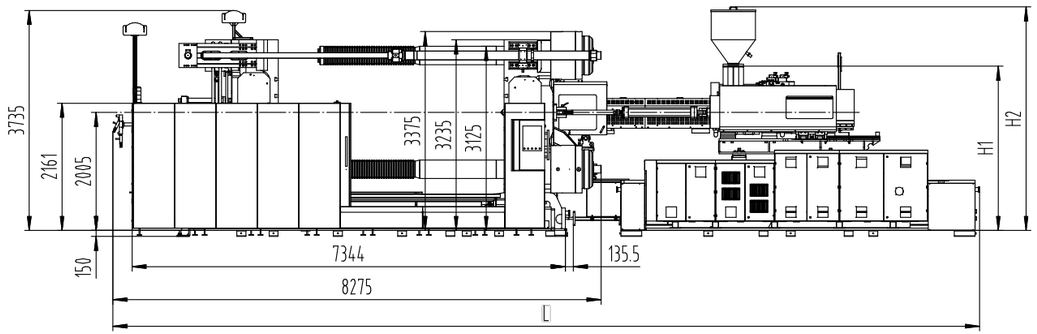
Technical Specifications of UN1700DP/UN1850DP

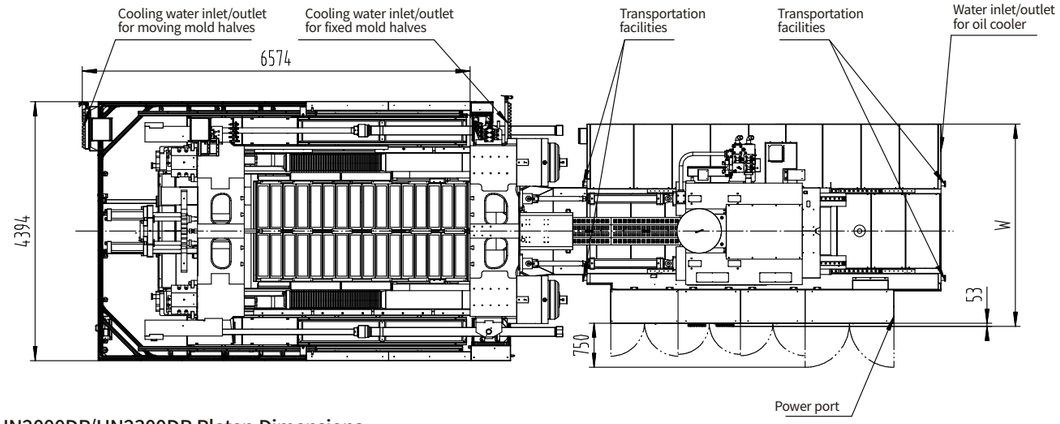
UN1700DP/UN1850DP																	
Description	UNIT																
Injection Unit																	
Model		9000			12050			18500			23750			31750			
Screw diameter	mm	100	108	116	116	125	135	135	145	155	145	155	165	155	165	180	
Theoretical shot volume	cm^3	4320	5039	5812	6341	7363	8588	10020	11559	13208	12385	14152	16037	15661	17747	21121	
Shot weight(GPPS)	g	3974	4636	5347	5833	6774	7901	9218	10634	12152	11394	13020	14756	14409	16328	19431	
Injection pressure	MPa	209	179	155	190	164	140	184	160	140	192	168	148	215	190	159	
Screw L:D ratio	L/D	21.6	20	20	22	20	20	23.6	22	20	23.5	22	20.1	20.8	22	22	
Injection rate	cm^3/s	766	894	1031	913	1060	1237	1251	1444	1650	1505	1715	1950	1670	1892	2252	
Max. injection speed	mm/s	97.6			86.4			87.4			91.1			88.5			
Screw stroke	mm	550			600			700			750			830			
Max. screw speed	r/min	128			113			118			114			98			
Screw torque	N.m	11982			14769			18949			24522			34833			
Heating capacity	kW	46.52	46.52	51.32	66.39	66.39	70.65	98.9			112.39			144.63			
Barrel heating zone number	PCS	7			8			8			10			10			
Nozzle contact force	kN	178.6			178.6			296.7			296.7			296.7			
Clamping Unit																	
Clamping force	kN	17000/18500															
Opening force	kN	1380															
Platen size	mm	2660×2240															
Space between tie bars	mm	1870×1425															
Mold thickness	mm	750-1650															
Max. opening stroke	mm	2700															
Max. daylight	mm	3450															
Ejector force	kN	300															
Ejector stroke	mm	400															
Ejector number	PCS	33															
Electrical&hydraulic Unit																	
System pressure	Mpa	17.5 , 25			17.5 , 25			17.5 , 25			17.5 , 25			17.5 , 25			
Motor	kW	55.6+31+39.4			55.6×2+39.4			60×3			60×3+55.6			60×4+55.6			
Total power	kW	172.5	172.5	177.3	217	217	221.2	278.9			348			440.2			
General																	
Oil tank capacity	L	1500			1500			2400			2600			3400			
Dry cycle	s/mm	8.2/1309			7.8/1309			7.7/1309			7.4/1309			7.4/1309			
Max. mold weight	T	45			45			45			45			45			
Machine weight (clamping + injection units, no oil)	T	73+12			73+14			73+22			73+23			73+37			
Machine dimensions	m	12.5×4.2×3.6			12.5×4.2×3.6			13.5×4.2×3.6			14.1×4.2×3.6			14.6×4.2×3.7			

Note:

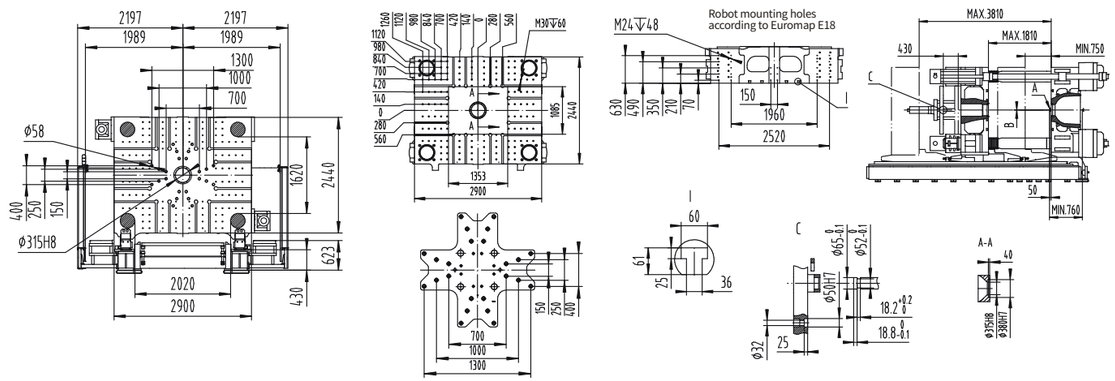
1. Dry cycle time accords with EUROMAP 6.
2. The load-bearing capacity of the moving platen is 2/3 of the total mold weight.
3. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
4. The injection unit data are in international units and calculated as follows: theoretical shot volume[cm^3]×injection pressure [Mpa]/100
5. Because of constant technical improvement, the machine specifications are subject to change without notice.

UN2000DP/UN2300DP Machine Dimensions





UN2000DP/UN2300DP Platen Dimensions



Model	A	B	L	H1	H2	W	Sectional area of main power cord	Full-load current	Bearing capacity of foundation	Number of cooling water line port	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
	mm	mm	mm	mm	mm	mm	mm^2	A	T/m^2	n×L/min	L/min	bar	bar
UN2000DP/2300DP-IU12050	SR20	ø6	13090	2619	3461	2842	120	347.3	12.5	(10+10)×11	200	3~4	5~6
UN2000DP/2300DP-IU18500	SR20	ø8	14090	2769	3756	3595	150	517.6					
UN2000DP/2300DP-IU23750	SR25	ø8	14690	2789	3795	3434	150	627.3					
UN2000DP/2300DP-IU31750	SR25	ø8	15187	2825	3831	3702	185	780.9					
UN2000DP/2300DP-IU44500	SR25	ø8	15187	2840	3846	3702	185	991.1					

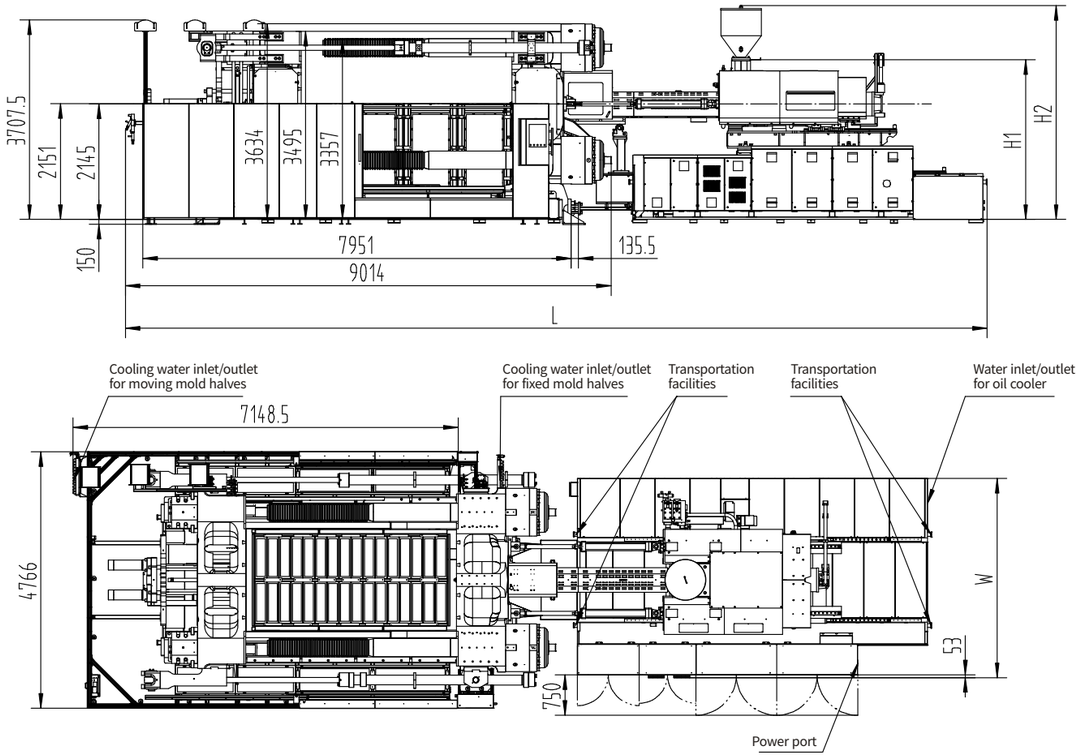
Technical Specifications of UN2000DP/UN2300DP

UN2000DP/UN2300DP																	
Description	UNIT																
Injection Unit																	
Model		12050			18500			23750			31750			44500			
Screw diameter	mm	116	125	135	135	145	155	145	155	165	155	165	180	180	190	200	
Theoretical shot volume	cm^3	6341	7363	8588	10020	11559	13208	12385	14152	16037	15661	17747	21121	23666	26368	29217	
Shot weight(GPPS)	g	5833	6774	7901	9218	10634	12152	11394	13020	14756	14409	16328	19431	21772	24259	26879	
Injection pressure	MPa	190	164	140	184	160	140	192	168	148	215	190	159	195	175	158	
Screw L:D ratio	L/D	22.1	20	20	23.6	22	20	23.5	22	20.1	20.8	22	22	23.4	22.1	20	
Injection rate	cm^3/s	913	1060	1237	1251	1444	1650	1505	1715	1950	1670	1892	2252	2200	2451	2716	
Max. injection speed	mm/s	86.4			87.4			91.1			88.5			86.5			
Screw stroke	mm	600			700			750			830			930			
Max. screw speed	r/min	113			118			114			98			75			
Screw torque	N.m	14769			18949			24522			34833			41778			
Heating capacity	kW	66.39	66.39	70.65	98.9			112.39			144.63			170	183	189	
Barrel heating zone number	PCS	8			8			10			10			8			
Nozzle contact force	kN	178.6			296.7			296.7			296.7			296.7			
Clamping Unit																	
Clamping force	kN	20000/23000															
Opening force	kN	1880															
Platen size	mm	2900×2440															
Space between tie bars	mm	2020×1620															
Mold thickness	mm	750-1810															
Max. opening stroke	mm	3060															
Max. daylight	mm	3810															
Ejector force	kN	460															
Ejector stroke	mm	430															
Ejector number	PCS	25															
Electrical&hydraulic Unit																	
System pressure	Mpa	17.5 , 25			17.5 , 25			17.5 , 25			17.5 , 25			17.5 , 25			
Motor	kW	55.6×2+39.4			60×3			60×3+55.6			60×4+55.6			110×2+66			
Total power	kW	217	217	221.2	278.9			348			440.2			456	469	475	
General																	
Oil tank capacity	L	1500			2400			2600			3400			4000			
Dry cycle	s/mm	12.5/1414			11.5/1414			10.5/1414			10/1414			10/1414			
Max. mold weight	T	60			60			60			60			60			
Machine weight (clamping + injection units, no oil)	T	94+14			94+22			94+23			94+37			94+37			
Machine dimensions	m	13.0×4.4×3.7			14.0×4.4×3.8			14.7×4.4×3.8			15.2×4.4×3.8			15.2×4.4×3.9			

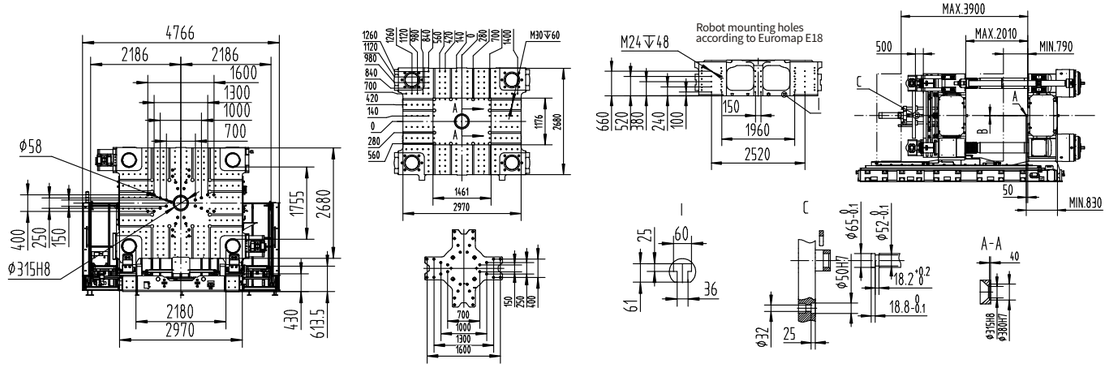
Note:

1. Dry cycle time accords with EUROMAP 6.
2. The load-bearing capacity of the moving platen is 2/3 of the total mold weight.
3. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
4. The injection unit data are in international units and calculated as follows: theoretical shot volume[cm^3]×injection pressure [Mpa]/100
5. Because of constant technical improvement, the machine specifications are subject to change without notice.

UN2700DP/UN2850DP Machine Dimensions



UN2700DP/UN2850DP Platen Dimensions



Model	A	B	L	H1	H2	W	Sectional area of main power cord	Full-load current	Bearing capacity of foundation	Number of cooling water line port	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
	mm	mm	mm	mm	mm	mm	mm^2	A	T/m^2	n×L/min	L/min	bar	bar
UN2700DP/2850DP-IU18500	SR20	ø8	14894	2909	3896	3595	150	517.6	14.5	(10+10)×11	200	3~4	5~6
UN2700DP/2850DP-IU23750	SR25	ø8	15495	2929	3935	3434	150	627.3					
UN2700DP/2850DP-IU31750	SR25	ø8	15995	2965	3971	3702	185	780.9					
UN2700DP/2850DP-IU44500	SR25	ø8	15995	2980	3986	3702	185	991.1					
UN2700DP/2850DP-IU54500	SR25	ø8	17243	3019	4035	3702	240	1124.2					
UN2700DP/2850DP-IU75500	SR25	ø8	19010	3969	4085	4194	300	1387.6					
UN2700DP/2850DP-IU100000	SR25	ø8	19010	3969	4085	4194	400	1401.3					

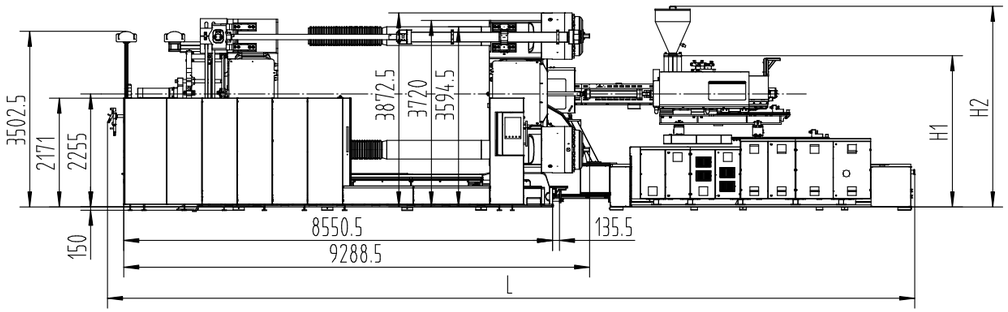
Technical Specifications of UN2700DP/UN2850DP

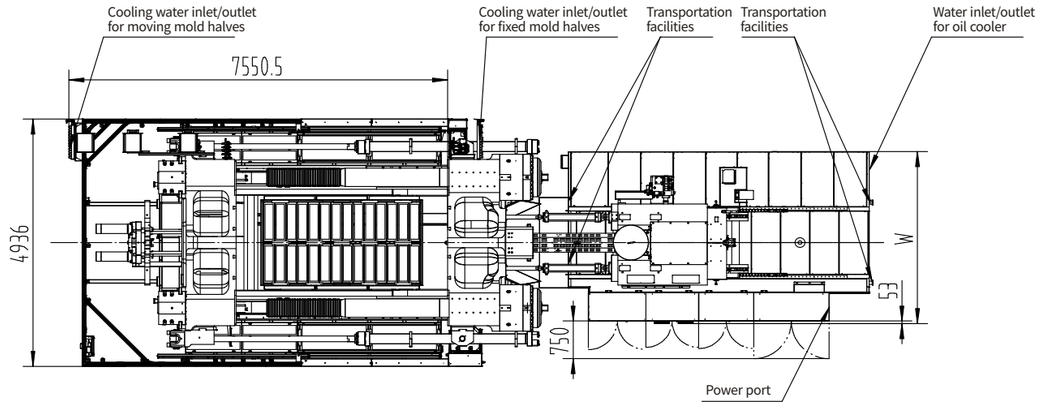
UN2700DP/UN2850DP																							
Description	UNIT																						
Injection Unit																							
Model		18500			23750			31750			44500			54500			75500			100000		
Screw diameter	mm	135	145	155	145	155	165	155	165	180	180	190	200	190	200	215	215	230	245	230	245	260
Theoretical shot volume	cm^3	10020	11559	13208	12385	14152	16037	15661	17747	21121	23666	26368	29217	28353	31416	36305	41025	46949	53272	56089	63644	71675
Shot weight(GPPS)	g	9218	10634	12152	11394	13020	14756	14409	16328	19431	21772	24259	26879	26085	28903	33401	37743	43193	49010	51602	58552	65941
Injection pressure	MPa	184	160	140	192	168	148	215	190	159	195	175	158	200	180	156	185	161	142	183	161	143
Screw L:D ratio	L/D	23.6	22	20	23.5	22	20.1	20.8	22	22	23.4	22.1	20	23.4	22.1	20	22	22.1	20	23.4	22.1	20
Injection rate	cm^3/s	1251	1444	1650	1505	1715	1950	1670	1892	2252	2200	2451	2716	2512	2783	3216	2796	3199	3630	3199	3630	4089
Max. injection speed	mm/s	87.4			91.1			88.5			86.5			88.6			77.0			77.0		
Screw stroke	mm	700			750			830			930			1000			1130			1350		
Max. screw speed	r/min	118			114			98			75			65			62			45		
Screw torque	N.m	18949			24522			34833			41778			48741			69630			76593		
Heating capacity	kW	98.9			112.39			144.63			170	183	189	182	189	212	263	281	300	281	300	342
Barrel heating zone number	PCS	8			10			10			8			8	9	9	9	10	11	9	10	11
Nozzle contact force	kN	296.7			296.7			296.7			296.7			296.7			296.7			296.7		
Clamping Unit																							
Clamping force	kN	27000/28500																					
Opening force	kN	2200																					
Platen size	mm	2970×2680																					
Space between tie bars	mm	2180×1755																					
Mold thickness	mm	790-2010																					
Max. opening stroke	mm	3110																					
Max. daylight	mm	3900																					
Ejector force	kN	460																					
Ejector stroke	mm	500																					
Ejector number	PCS	33																					
Electrical&hydraulic Unit																							
System pressure	Mpa	17.5 , 25			17.5 , 25			17.5 , 25			17.5 , 25			17.5 , 25			17.5 , 25			17.5 , 25		
Motor	kW	60×3			60×3+55.6			60×4+55.6			110×2+66			85×3+66			110×4			110×4		
Total power	kW	278.9			348			440.2			456	469	475	503	510	533	703	721	740	721	740	782
General																							
Oil tank capacity	L	2400			2600			3400			4000			5300			5300			5300		
Dry cycle	s/mm	12/1526			11/1526			10.5/1526			10.5/1526			10.5/1526			10/1526			10/1526		
Max. mold weight	T	75			75			75			75			75			75			75		
Machine weight (clamping + injection units, no oil)	T	114+22			114+23			114+37			114+41			114+60			114+60			114+65		
Machine dimensions	m	14.9×4.8×3.9			15.5×4.8×4.0			16.0×4.8×4.0			16.0×4.8×4.0			17.2×4.8×4.1			19.0×4.8×4.1			19.0×4.8×4.1		

Note:

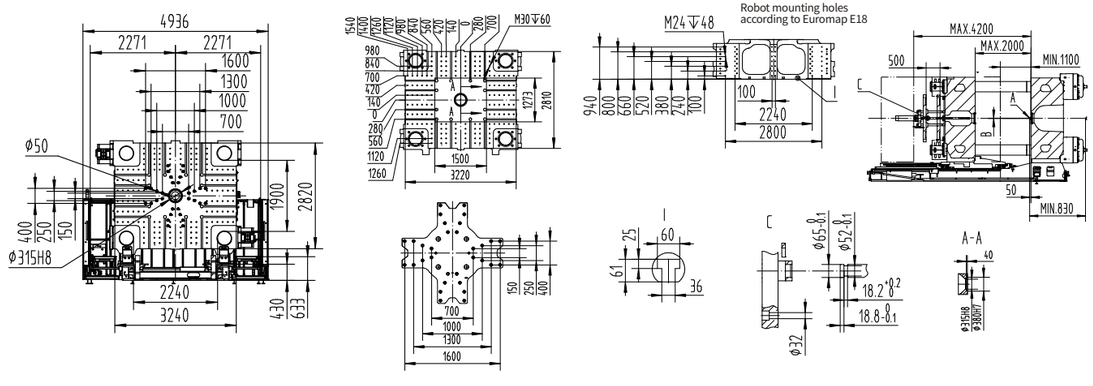
1. Dry cycle time accords with EUROMAP 6.
2. The load-bearing capacity of the moving platen is 2/3 of the total mold weight.
3. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
4. The injection unit data are in international units and calculated as follows: theoretical shot volume[cm^3]×injection pressure [Mpa]/100
5. Because of constant technical improvement, the machine specifications are subject to change without notice.

UN3200DP/UN3400DP Machine Dimensions





UN3200DP/UN3400DP Platen Dimensions



Model	A	B	L	H1	H2	W	Sectional area of main power cord	Full-load current	Bearing capacity of foundation	Number of cooling water line port	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
	mm	mm	mm	mm	mm	mm	mm^2	A	T/m^2	n×L/min	L/min	bar	bar
UN3200DP/3400DP-IU18500	SR20	ø8	16094	3019	4006	3434	150	517.6	14.5	(10+10)×11	200	3~4	5~6
UN3200DP/3400DP-IU23750	SR25	ø8	16094	3039	4045	3434	150	627.3					
UN3200DP/3400DP-IU31750	SR25	ø8	16591	3075	4081	3702	185	780.9					
UN3200DP/3400DP-IU44500	SR25	ø8	16591	3090	4095	3702	185	991.1					
UN3200DP/3400DP-IU54500	SR25	ø8	17839	3140	4145	3702	240	1124.2					
UN3200DP/3400DP-IU75500	SR25	ø8	19109	3190	4195	4194	300	1387.6					
UN3200DP/3400DP-IU100000	SR25	ø8	19109	3190	4195	4194	400	1401.3					

Technical Specifications of UN3200DP/UN3400DP

UN3200DP/UN3400DP																							
Description	UNIT																						
Injection Unit																							
Model		18500			23750			31750			44500			54500			75500			100000		
Screw diameter	mm	135	145	155	145	155	165	155	165	180	180	190	200	190	200	215	215	230	245	230	245	260
Theoretical shot volume	cm^3	10020	11559	13208	12385	14152	16037	15661	17747	21121	23666	26368	29217	28353	31416	36305	41025	46949	53272	56089	63644	71675
Shot weight(GPPS)	g	9218	10634	12152	11394	13020	14756	14409	16328	19431	21772	24259	26879	26085	28903	33401	37743	43193	49010	51602	58552	65941
Injection pressure	MPa	184	160	140	192	168	148	215	190	159	195	175	158	200	180	156	185	161	142	183	161	143
Screw L:D ratio	L/D	23.6	22	20	23.5	22	20.1	20.8	22	22	23.4	22.1	20	23.4	22.1	20	22	22.1	20	23.4	22.1	20
Injection rate	cm^3/s	1563	1800	2060	1505	1715	1950	1670	1892	2252	2200	2451	2716	2512	2783	3216	2796	3199	3630	3199	3630	4089
Max. injection speed	mm/s	109.2			91.1			88.5			86.5			88.6			77.0			77.0		
Screw stroke	mm	700			750			830			930			1000			1130			1350		
Max. screw speed	r/min	118			114			98			75			65			62			45		
Screw torque	N.m	18949			24522			34833			41778			48741			69630			76593		
Heating capacity	kW	98.9			112.39			144.63			170	183	189	182	189	212	263	281	300	281	300	342
Barrel heating zone number	PCS	8			10			10			8			8	9	9	9	10	11	9	10	11
Nozzle contact force	kN	296.7			296.7			296.7			296.7			296.7			296.7			296.7		
Clamping Unit																							
Clamping force	kN	32000/34000																					
Opening force	kN	2550																					
Platen size	mm	3220×2810																					
Space between tie bars	mm	2240×1900																					
Mold thickness	mm	1100-2000																					
Max. opening stroke	mm	3100																					
Max. daylight	mm	4200																					
Ejector force	kN	460																					
Ejector stroke	mm	500																					
Ejector number	PCS	33																					
Electrical&hydraulic Unit																							
System pressure	Mpa	17.5 , 25			17.5 , 25			17.5 , 25			17.5 , 25			17.5 , 25			17.5 , 25			17.5 , 25		
Motor	kW	60×3+55.6			60×3+55.6			60×4+55.6			110×2+66			85×3+66			110×4			110×4		
Total power	kW	334.5			348			440.2			456	469	475	503	510	533	703	721	740	721	740	782
General																							
Oil tank capacity	L	2600			2600			3400			4000			5300			5300			5300		
Dry cycle	s/mm	11.2/1568			11.2/1568			11/1568			10.8/1568			10.5/1568			10.2/1568			10/1568		
Max. mold weight	T	81			81			81			81			81			81			81		
Machine weight (clamping + injection units, no oil)	T	143+22			143+23			143+37			143+41			143+60			143+60			143+65		
Machine dimensions	m	16.1×5.0×4.0			16.1×5.0×4.1			16.6x5.0x4.1			16.6x5.0x4.1			17.8x5.0x4.1			19.1x5.0x4.2			19.1x5.0x4.2		

Note:

1. Dry cycle time accords with EUROMAP 6.
2. The load-bearing capacity of the moving platen is 2/3 of the total mold weight.
3. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
4. The injection unit data are in international units and calculated as follows: theoretical shot volume[cm^3]×injection pressure [Mpa]/100
5. Because of constant technical improvement, the machine specifications are subject to change without notice.