THINK TECH FORWARD

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Designed by YIZUMI, September 2025

YIZUMI

MultiPro

TWO-PLATEN MULTI-COMPONENT INJECTION MOLDING MACHINE With VERTICAL TURNTABLE

Modular Design for Customization

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PRODUCT DETAILS

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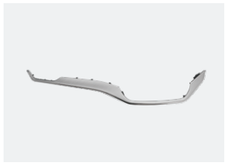
Based on advanced technology, multi-component molding is available by the combination of injection units. YIZUMI MultiPro molding process can help multi-component production with just one machine and one processing step. YIZUMI has been always in leading position in multi-component molding, providing with high-end solutions.

Application

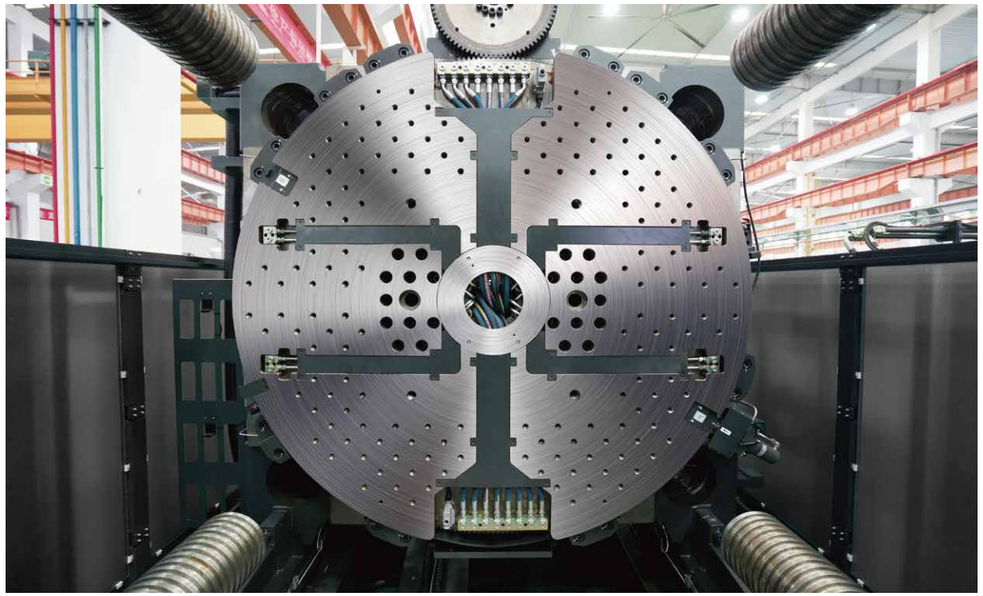
Suitable for the multi-component production of automotive products (lights, interior and exterior trims, dashboard trims, door panel trims, center console panels, A-pillars, B-pillars, drip rails, seat covers), home appliance housings, laptop parts, and other products.








MULTI-COMPONENT MOLDING with VERTICAL TURNTABLE



Modular Design for Customization

The vertical turntable injection unit combinations include various configurations such as P-type (parallel), W-type (piggyback), L-type (non-operator side), V-type (vertical), and H-type (parallel quartet). These combinations provide more economical molding solutions for multi-color and multi-component products.

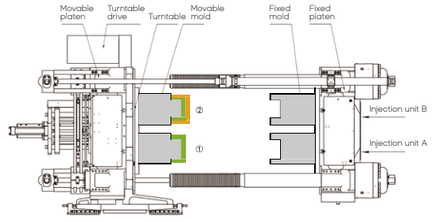
Working principle

Molding closing → Simultaneous injection by A unit and B unit → Ejection after mold opening → 180° rotation of turntable → Molding closing

* Standard feature: 180° dual-station rotation of either clockwise or counterclockwise.
  Optional feature: Multi-station rotation.

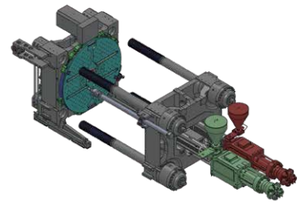
Features

With vertical turntable rotation for station changeover, the series offers a wide range of models, proven mold technology, and broad applicability.



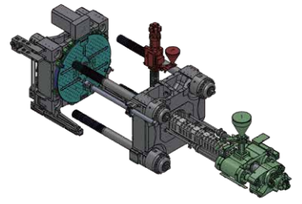
* All the data herein come from YIZUMI's factory.
  Please check the data of the actual customized equipment.

MODULAR COMBINATION of INJECTION UNIT



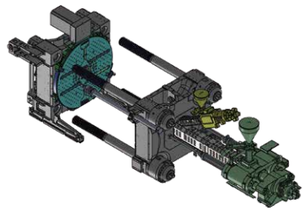
P-type combination for 2K molding

- **Combination:** H+P
- **Features:** It is suitable for short nozzle center distance. The nozzle center distance is adjustable. The injection unit can be moved for centering.



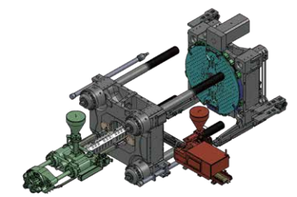
V-type combination for 2K molding

- **Combination:** H+V
- **Features:** It is suitable for the production of multi-component products requiring less injection weight.



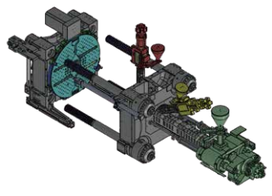
W-type combination for 2K molding

- **Combination:** H+W
- **Features:** It is suitable for the production of multi-component products requiring highly space-saving.



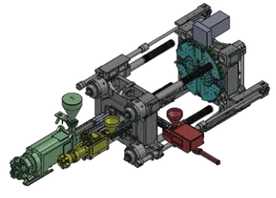
L-type combination for 2K molding

- **Combination:** H+L
- **Features:** Highly flexible, secondary injection unit is easy to disassemble and move.



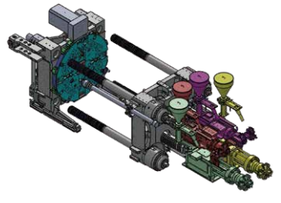
W+V-type combination for 3K molding

- **Combination:** H+W+V
- **Features:** Small footprint and compact layout.



P+L-type combination for 3K molding

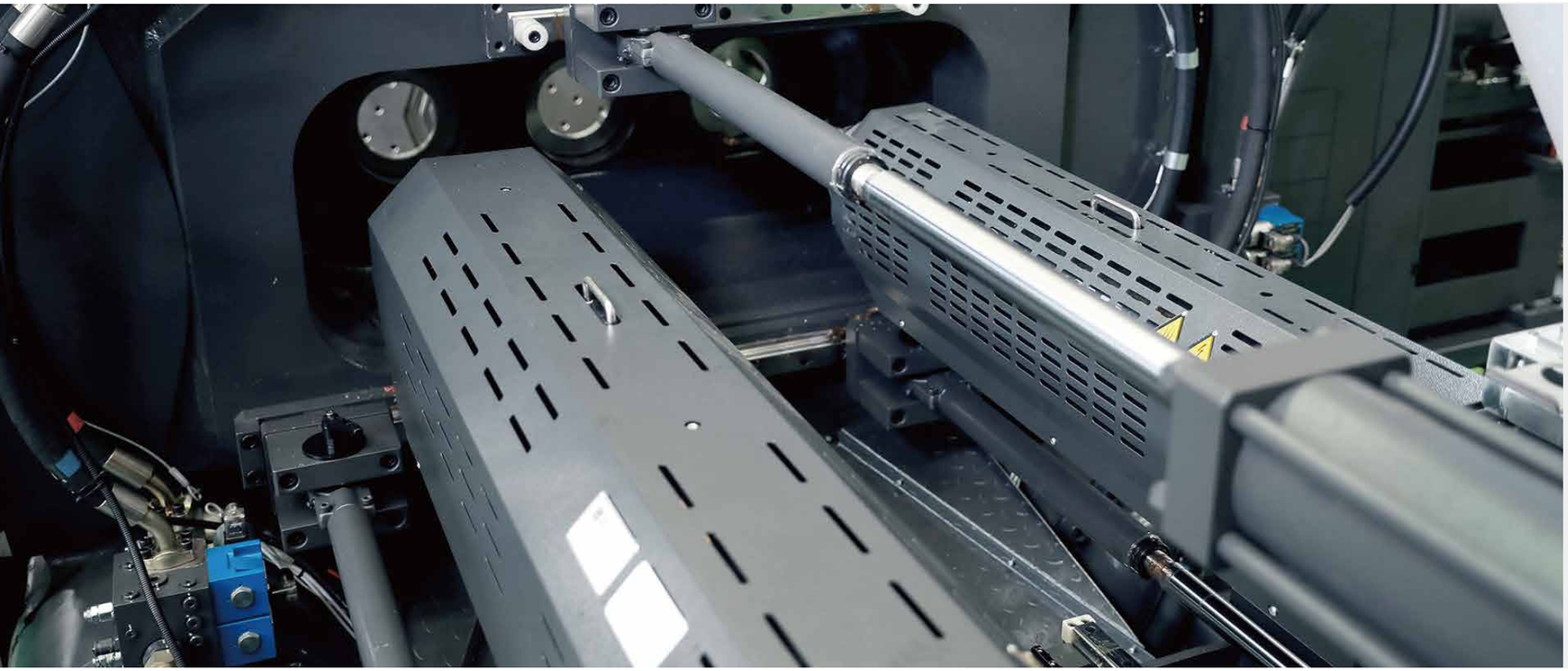
- **Combination:** H+P+L
- **Features:** Flexible configuration and wide application.



H-type combination for 4K molding

- **Combination:** H (A+B+C+D)
- **Features:** Customizable, versatile for multiple applications.

INJECTION UNIT



High injection repeatability

Based on European single-cylinder injection molding technology, it brings low injection inertia and high leak-proof performance of cylinder; also combined with high-mixing anti-stick screw and precise temperature control, injection stability is further enhanced, making the repeatability of product weight ≤ 3‰.

Standard feature of proportional back pressure control

Precise controller control improves injection stability and ensures optimal plasticizing of melt.

Excellent injection accuracy

Full closed-loop control of pressure and speed achieves injection position repeatability ≤±0.2mm and product repeatability up to 3‰.

Modular injection unit combination

Different injection units can be flexibly combined according to the process requirements of different products. Combined with flexible software functions, this allows for customization.

High-mixing anti-stick plasticizing screw design

Screw designed with optimized mixing parameters is adopted to ensure efficient plasticizing, but also reach the better mixing effect and eliminate stickiness, yellowing and blackening.

New-generation PID temperature control

With the self-adaptive PID temperature control, the static temperature control accuracy is up to ±0.5℃.

Single-cylinder injection structure

Low-inertia injection, excellent cylinder sealing, and fast injection response speed.

Adjustable injection unit movement

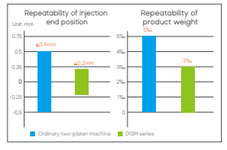
The center distance of injection units is adjustable, and a standard adjustable range is specific for different tonnages, to better fit the molds of various center distances. And the injection unit with centering function also can be used for single-color production.

Fast coupling interface for barrel heating

Heavy-load split fast coupling interfaces are standard for the barrel's electrical unit, enabling fast and efficient barrel replacement.

Proportional back pressure control

PID temperature control

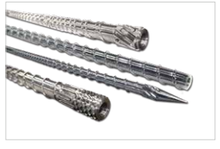


Excellent injection accuracy

Single-cylinder injection structure

Modular injection unit combination

Adjustable injection unit movement



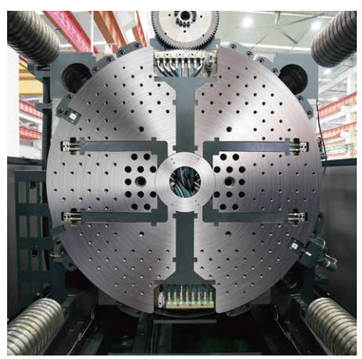
High-mixing non-stick plasticizing screw design

Fast coupling interface for barrel heating

CLAMPING UNIT

Integrated turntable

- Integral unit with floating rotation technology to minimize friction and prolong turntable and motor service life.
- Highly rigid, extra-long main shaft with dual bearings ensures heavy-load capability and prevents sagging.
- The turntable is standard with servo motor with high precision and rotation speed. It can be equipped with multiple groups of water-oil-gas diversion at high flow rate.

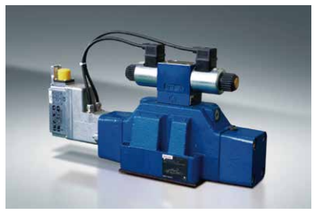


Digital closed-loop positioning control (DCPC technology)

The turntable is driven by a servo motor and controlled using DCPC technology, high rotation speed, smooth movement with no impact, precise positioning, and positioning repeatability of ±0.005°.

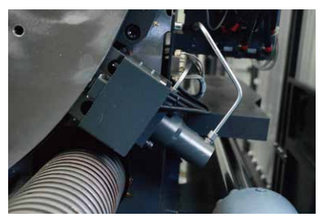
Automatic flow-distribution shaft system

Synchronized rotation of tank chain as a standard feature to effectively protect water, oil, and gas lines and minimize wear and leakage.



Proportional-valve-controlled mold opening and closing

Improved mold opening repeatability and low-pressure mold protection stability.

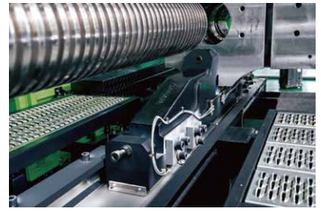


Turntable positioning protection

The turntable is standard equipped with positioning pins and anti-overtravel limits, featuring electrical and mechanical protection to ensure accurate turntable positioning and safeguard the flow-distribution shaft system.

Synchronized turntable

Synchronized turntable rotating during mold opening and closing is a standard feature, which can be selected through the controller, enhancing efficiency.



Highly rigid and precise guiding

The L-shaped guide rail designed considering guiding and gravity center support, with guide accuracy of 0.05mm, effectively improving the movement stability and extending mold service life.

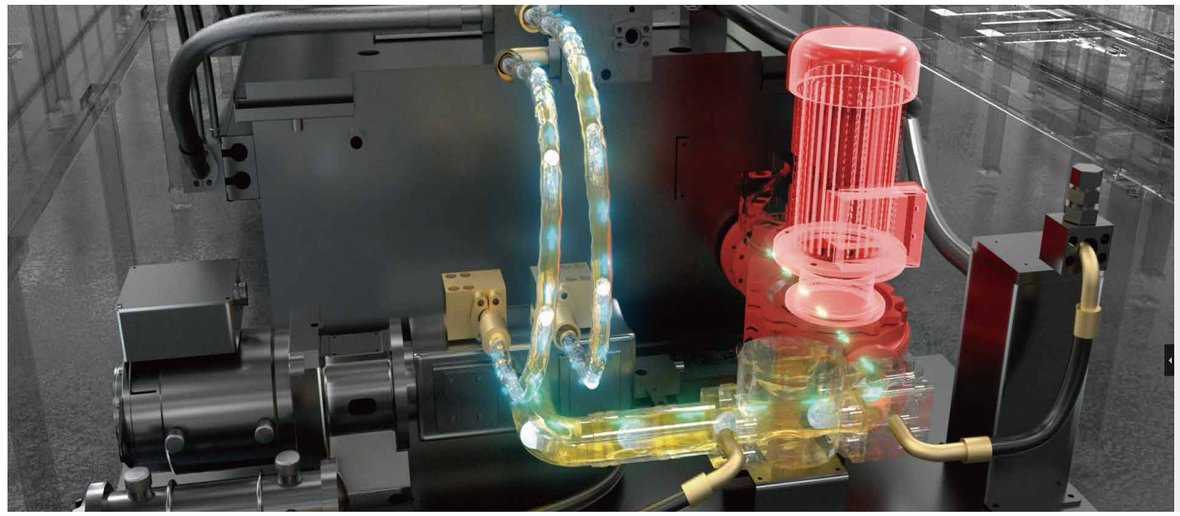
Rotating shaft module (Optional)

Movable platen is optional with a rotating shaft module, to meet the requirements of the in-mold core rotating process for two-color products.

Customized mold positioning

Customized mold positioning is available as per requirement. And center distance can be adjusted by replacing the positioning ring, providing a wide range of application.

HYDRAULIC SYSTEM



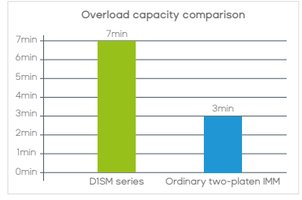
HYDRAULIC SYSTEM

Fast response, strong overload capacity, stability, energy conservation

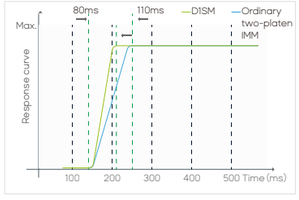
D1SM series is based on a hydraulic system with stability and fast response at the core, which enables hydraulic circuit to be in optimal operating conditions. The hydraulic system is characterized by fast response, strong overload capacity and low energy consumption that meets China energy efficiency grade 1.

New-generation servo system driven by fully oil-cooled motor

The full oil-cooled dual shaft servo motor system represents the highly-integrated hydraulic servo pump system. By addressing the influence of environmental factors on operational stability, it ensures consistent performance. Its synchronous drive technology accelerates hydraulic response and enhances overall motion efficiency, while reducing energy losses in the hydraulic circuit.



Strong overload



Rapid acceleration

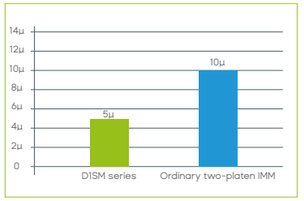
Durable and reliable

Precision filtration & cooling system

With independent hydraulic circuit filtration system, filter fineness is up to 5μm and cooling effect is optimized, which ensure long service life of seals. Machine becomes more stable.

Superior cooling effect

High filter fineness



Filter fineness comparison

Motor protected with L-shape plates

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

CONTROL SYSTEM

Accurate, reliable and stable, user-friendly

The series adopts Austria's KEBA control system, specifically designed for two-platen multi-component injection molding machine. The entire system is engineered with reliability, stability, safety, and user-friendly operation, providing tailored solutions for various multi-component molding processes and ensuring a better experience for users.

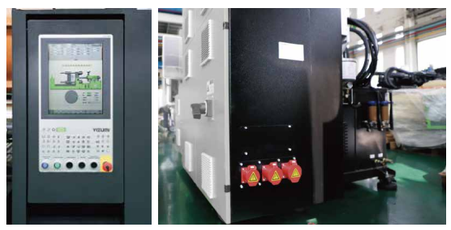
KEBA controller (standard feature) ▶

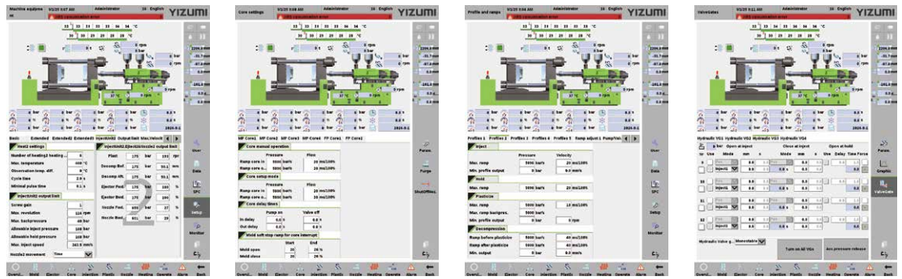
- Standard feature of 15-inch KEBA touch controller, double CPUs, and a 1 ms scan cycle for reliable, fast, and powerful control.
- Synchronous communication with servo closed-loop positioning ensures precise turntable positioning.
- Advanced PID closed-loop temperature control delivers precise and stable temperature control.
- Unlimited mold parameter storage via USB for fast and easy operation.
- Memory functions for alarms and process parameter changes.
- Record of process parameter change curve.
- Production process data control (PDP) and statistical process control (SPC)
- Multi-level user access and data protection functions ensure system and data security.
- Real-time remote monitoring
- Online conversion of languages and units
- Programming with no restrictions allows for complex mold movements and customized automation control.
- Quick setup makes process parameter setting simple and convenient.
- Expandable I/O modules can integrate additional functions, such as built-in hot runner control and sequential valve.
- Communication ports for printers, auxiliary equipment, and automation, including expandable OPC/UA interfaces.

User-friendly design

Ergonomic rotary cabinet of fool-proof design, clear, concise and beautiful interface ensures easy and convenient operation.

① Ergonomic rotary cabinet ▶
② Convenient plugs for auxiliaries ▶



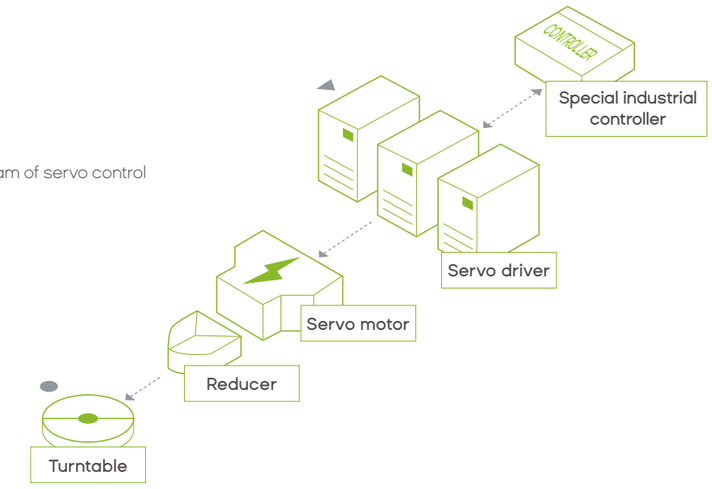


Dedicated industrial controller interface for multi-component machine ▲

Principle of Servo-Controlled Turntable

The electric servo control system of the turntable includes industrial controller, servo driver, servo motor, reducer, high-resolution precision detector and turntable. The industrial controller releases the control signal to the servo driver for performing closed-loop positioning, leading smooth rotation and accurate positioning of turntable.

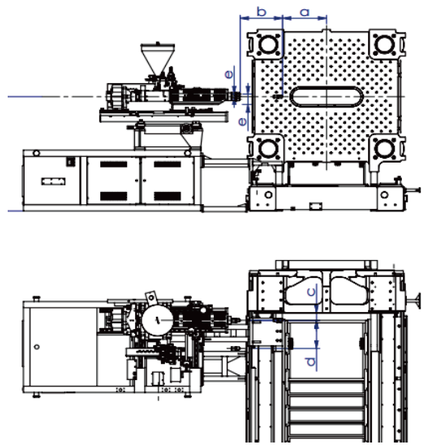
▼ Schematic diagram of servo control for turntable



L/V INDEPENDENT INJECTION UNIT

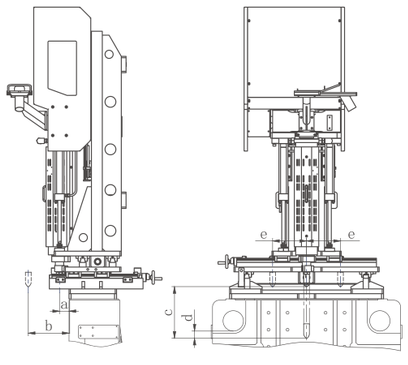
L-type injection unit configuration

Specifications	a/mm	b/mm	c/mm	d/mm	e/mm
IU190	550T: 250 750T: 300 900T: 400 1100T: 400 1250T: 450 1400T: 550 1600T: 600 1850T: 655 2100T: 810 2400T: 850 2850T: 1000 3400T: 1000	500	100	200	±5
IU295			100		
IU420			100		
IU604			100		
IU895			120		
IU1269			130		
IU1885			150		
IU2695			150		



V-type injection unit configuration

Specifications	a/mm	b/mm	c/mm	d/mm	e/mm
IU190V	190	420	650	250	±5
IU295V					
IU420V					
IU604V					
IU895V					



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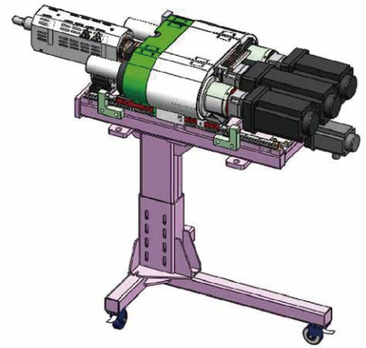
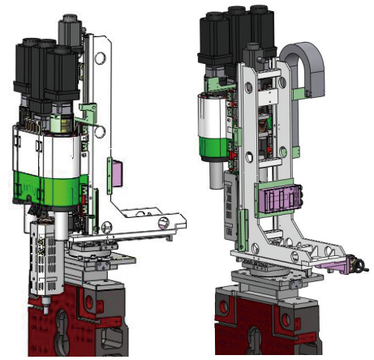
INDEPENDENT ELECTRIC INJECTION UNIT



▲ Independent L-type electric injection unit



▲ Independent V-type electric injection unit

Independent modular design

With modular design, it can be combined with hydraulic machine to be an oil-electric hybrid multi-component injection molding machine; or combined with all-electric machine to be an all-electric multi-component injection molding machine. Flexible combination like L-type and V-type combination is available for wider application.

Note: Its specific structure is subject to the actual design. The base rotation function is optional.

Compact design, easy to install and store

Using all-electric control for injection, plasticizing and carriage, compact structure and easy to install and store.

Servo control

High injection repeatability, fast response and more stable molding.

Flexible combination

Can be combined as L-type or V-type injection unit, adaptable to different molds.

Optional function of base rotation

Base rotation can help offer more space for mold loading, unloading and maintenance; Secondary injection unit can also be combined with the main injection unit through base rotation by 180° to achieve sandwich molding.

Clean and environmental friendly

All-electric control is cleaner than the hydraulic control, especially suitable for the clean production with lower energy consumption.

High compatibility

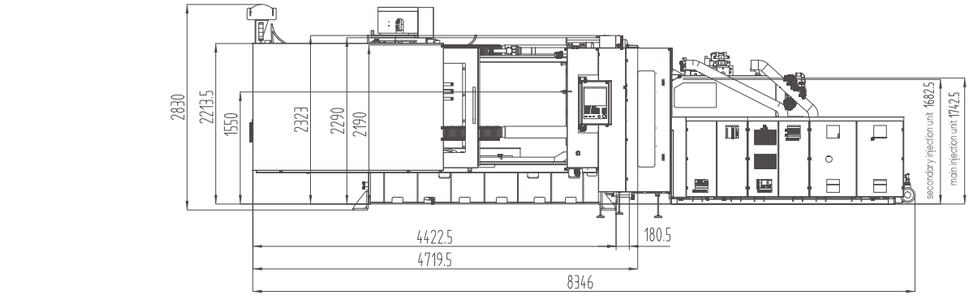
It can be compatible with different brands or different tonnages machine to achieve two-color or multi-color molding, low operating cost.

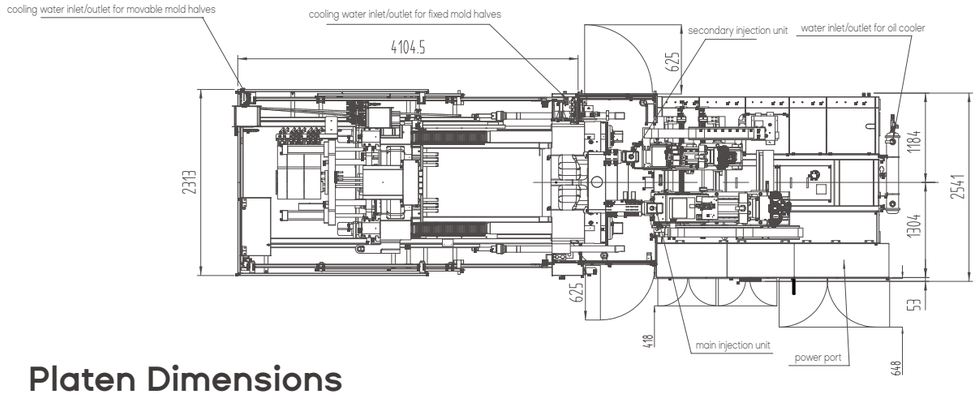
Specifications of UN550D1SM-tP

UN550D1SM-tP													
Injection Unit													
		Combination 1						Combination 2					
Model		IU1310			IU420			IU930			IU420		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	53	60	68	35	43	48	48	53	60	35	43	48
Theoretical shot volume	cm³	585	749	962	163	247	307	425	518	664	163	247	307
Shot weight	g	538	689	885	150	227	283	391	477	611	150	227	283
Injection pressure	MPa	237	185	144	260	172	138	220	180	140	260	172	138
Screw L:D ratio	L/D	22.6	20	20	24	20	20	22	20	20	24	20	20
Injection rate	cm³/s	223	285	367	127	192	239	192	234	300	127	192	239
Max. injection speed	mm/s	101			132			106			132		
Screw stroke	mm	265			170			235			170		
Max. screw speed	r/min	183			282			210			282		
Barrel heating zone	PCS	6			5			6			5		
Clamping Unit													
Clamping force	kN	5500											
Opening force	kN	390											
Space between tie bars	mm	920×830											
Max. mold thickness (to turntable surface)	mm	950											
Min. mold thickness (to turntable surface)	mm	300											
Opening stroke	mm	1200/550											
Max. daylight (to turntable surface)	mm	1500											
Center hole distance of fixed platen	mm	450-650											
Turntable diameter	mm	1200											
Max. turning diameter	mm	1280											
Ejector force	kN	110×2											
Effective ejector stroke	mm	247											
Power Unit													
System pressure	MPa	17.5/30											
Pump motor	kW	41.4+22.3+7.5											
Heating power	kW	16.8/19			9/10.1			14.4/16.8			9/10.1		
General													
Oil tank capacity	L	640											
Machine dimensions (L×W×H)	m	8.4×2.5×2.8											
Max. turntable mold weight	T	4											

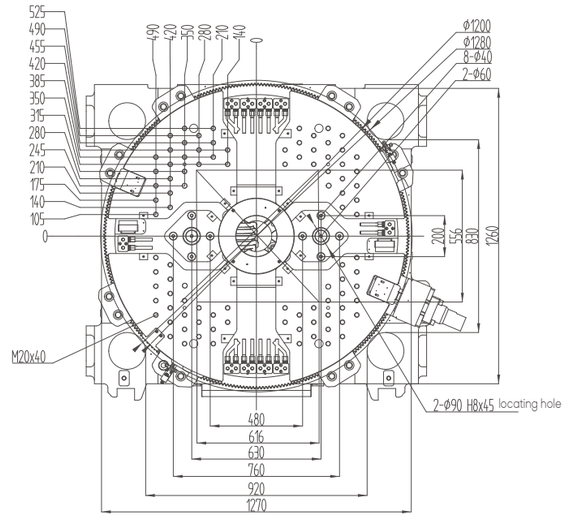
Note:
1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height and opening stroke with maximum mold height.
3. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
4. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm³] × injection pressure (MPa)/100.
5. Because of constant technical improvement, the machine specifications are subject to change without notice.

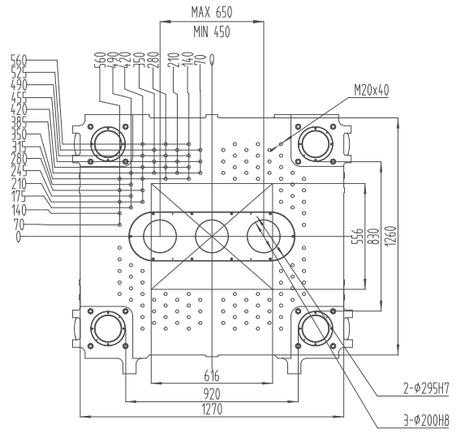
Machine Dimensions

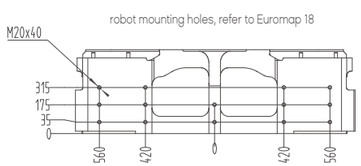


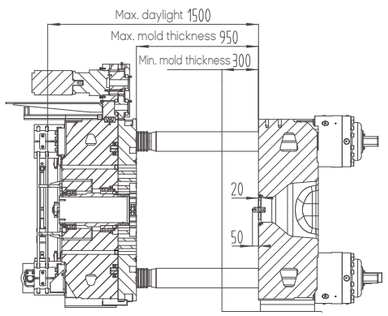


Platen Dimensions







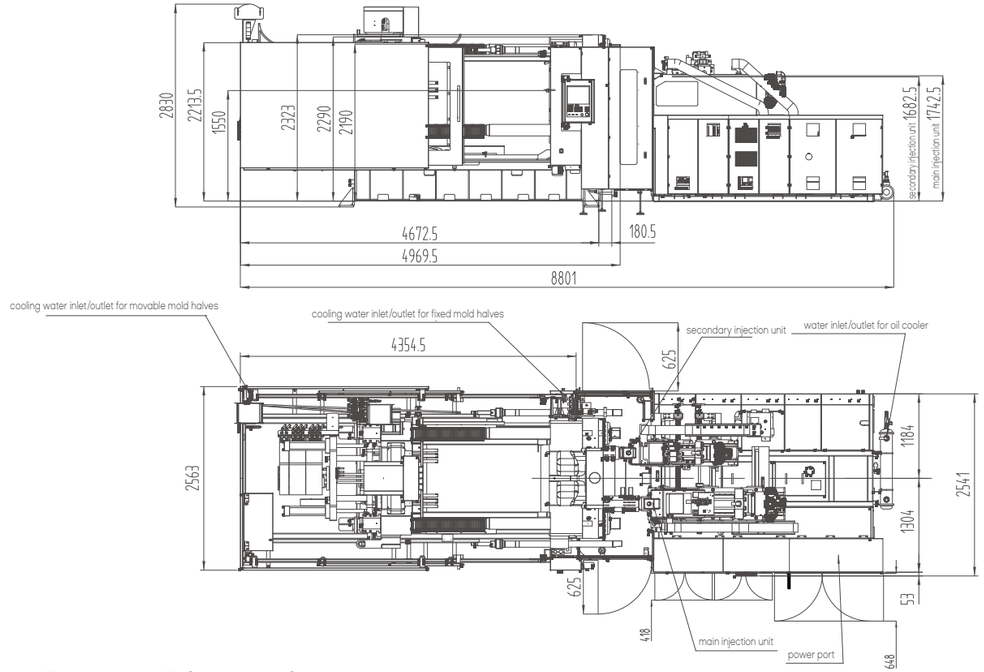


Specifications of UN750D1SM-tP

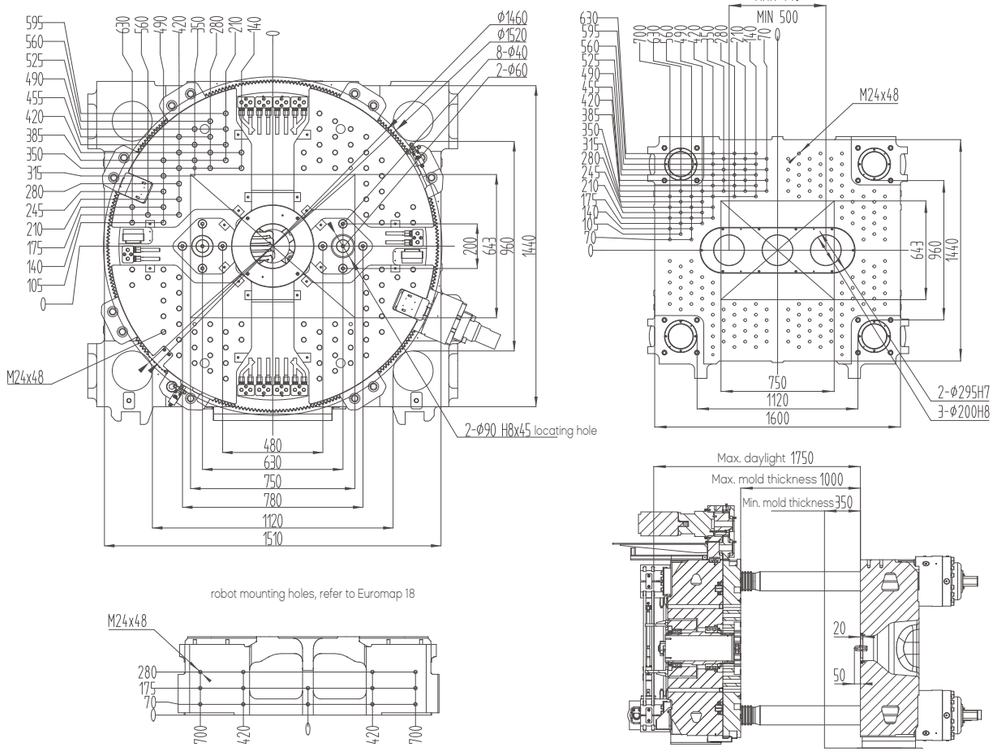
UN750D1SM-tP													
Injection Unit													
		Combination 1						Combination 2					
Model		IU1310			IU630			IU1310			IU420		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	53	60	68	43	48	53	53	60	68	35	43	48
Theoretical shot volume	cm³	585	749	962	298	371	452	585	749	962	163	247	307
Shot weight	g	538	689	885	274	341	416	538	689	885	150	227	283
Injection pressure	MPa	237	185	144	213	171	140	237	185	144	260	172	138
Screw L:D ratio	L/D	22.6	20	20	22.3	20	20	22.6	20	20	24	20	20
Injection rate	cm³/s	223	285	367	155	194	236	223	285	367	127	192	239
Max. injection speed	mm/s	101			107			101			132		
Screw stroke	mm	265			205			265			170		
Max. screw speed	r/min	183			230			183			282		
Barrel heating zone	PCS	6			5			6			5		
Clamping Unit													
Clamping force	kN	7500											
Opening force	kN	500											
Space between tie bars	mm	1120×960											
Max. mold thickness (to turntable surface)	mm	1000											
Min. mold thickness (to turntable surface)	mm	350											
Opening stroke	mm	1400/750											
Max. daylight (to turntable surface)	mm	1750											
Center hole distance of fixed platen	mm	500-710											
Turntable diameter	mm	1460											
Max. turning diameter	mm	1520											
Ejector force	kN	110×2											
Effective ejector stroke	mm	247											
Power Unit													
System pressure	MPa	17.5/30											
Pump motor	kW	41.4+22.3+7.5											
Heating power	kW	16.8/19			10.9/12.1			16.8/19			9/10.1		
General													
Oil tank capacity	L	640											
Machine dimensions (L×W×H)	m	8.8×2.6×2.8											
Max. turntable mold weight	T	5.6											

Note:
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 and opening stroke with maximum mold height.
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 [cm³] × injection pressure (MPa)/100.
5. Because of constant technical improvement, the machine specifications are subject to change without notice.

Machine Dimensions



Platen Dimensions

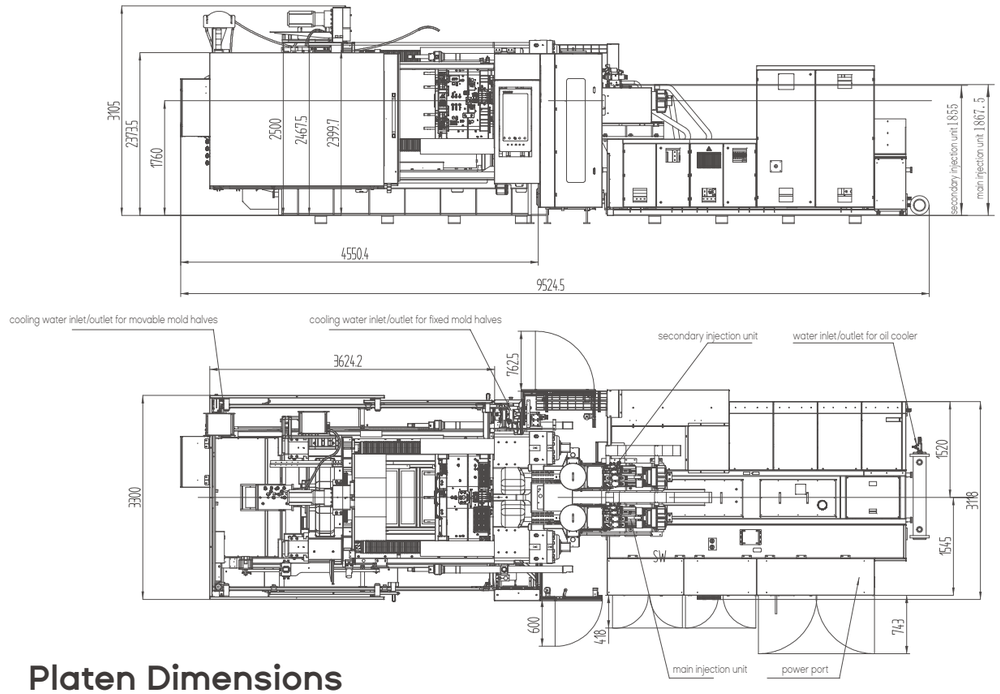


Specifications of UN900D1SM-tP

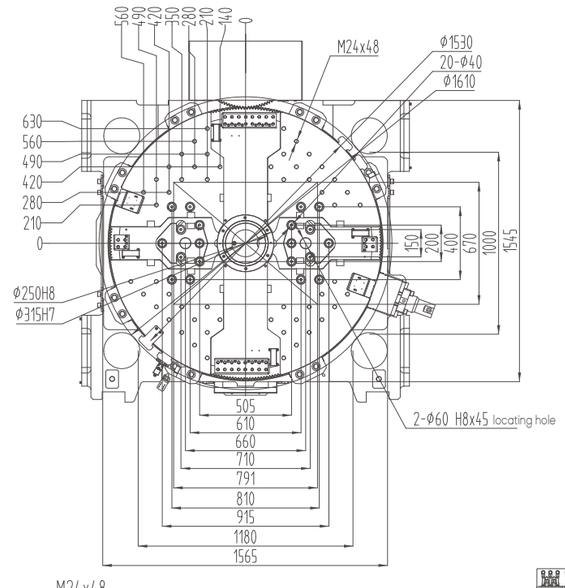
UN900D1SM-tP													
Injection Unit													
		Combination 1						Combination 2					
Model		IU1870			IU630			IU1310			IU630		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	60	68	76	43	48	53	53	60	68	43	48	53
Theoretical shot volume	cm³	834	1071	1338	298	371	452	585	749	962	298	371	452
Shot weight	g	767	986	1231	274	341	416	538	689	885	274	341	416
Injection pressure	MPa	225	175	140	213	171	140	237	185	144	213	171	140
Screw L:D ratio	L/D	22.6	20	20	22.3	20	20	22.6	20	20	22.3	20	20
Injection rate	cm³/s	291	373	467	155	194	236	223	285	367	155	194	236
Max. injection speed	mm/s	103			107			101			107		
Screw stroke	mm	295			205			265			205		
Max. screw speed	r/min	172			230			183			230		
Barrel heating zone	PCS	6			5			6			5		
Clamping Unit													
Clamping force	kN	9000											
Opening force	kN	640											
Space between tie bars	mm	1180×1000											
Max. mold thickness (to turntable surface)	mm	1150											
Min. mold thickness (to turntable surface)	mm	400											
Opening stroke	mm	1600/850											
Max. daylight (to turntable surface)	mm	2000											
Center hole distance of fixed platen	mm	500-710											
Turntable diameter	mm	1530											
Max. turning diameter	mm	1610											
Ejector force	kN	150×2											
Effective ejector stroke	mm	247											
Power Unit													
System pressure	MPa	17.5/30											
Pump motor	kW	54.3+28.1+7.5											
Heating power	kW	22.2/24.6			10.9/12.1			16.6/19			10.9/12.1		
General													
Oil tank capacity	L	750											
Machine dimensions (L×W×H)	m	9.5×3.3×3.1											
Max. turntable mold weight	T	6.7											

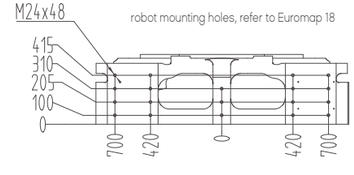
Note:
1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height and opening stroke with maximum mold height.
3. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
4. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm³] × injection pressure (MPa)/100.
5. Because of constant technical improvement, the machine specifications are subject to change without notice.

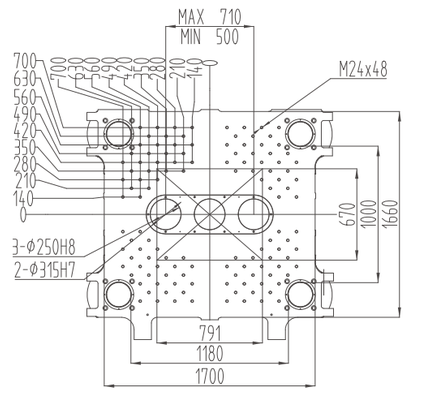
Machine Dimensions

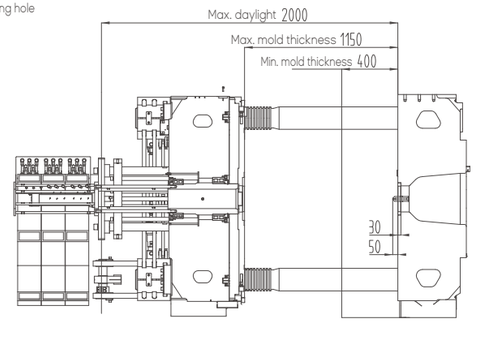


Platen Dimensions







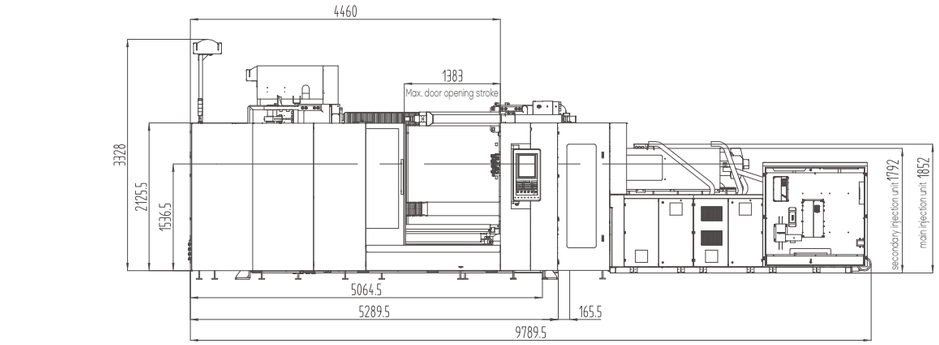


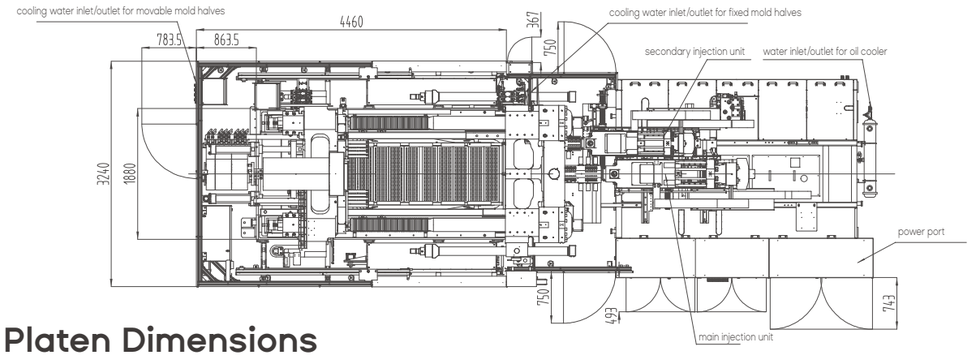
Specifications of UN1100D1SM-tP

UN1100D1SM-tP													
Injection Unit													
		Combination 1						Combination 2					
Model		IU1870			IU930			IU1310			IU630		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	60	68	76	48	53	60	53	60	68	43	48	53
Theoretical shot volume	cm³	834	1071	1338	425	518	664	585	749	962	298	371	452
Shot weight	g	767	986	1231	391	477	611	538	689	885	274	341	416
Injection pressure	MPa	225	175	140	220	180	140	237	185	144	213	171	140
Screw L:D ratio	L/D	22.6	20	20	22	20	20	22.6	20	20	22.3	20	20
Injection rate	cm³/s	291	373	467	192	234	300	223	285	367	154	192	234
Max. injection speed	mm/s	103			106			101			106		
Screw stroke	mm	295			235			265			205		
Max. screw speed	r/min	172			210			183			230		
Barrel heating zone	PCS	6			6			6			5		
Clamping Unit													
Clamping force	kN	11000											
Opening force	kN	760											
Space between tie bars	mm	1270×1100											
Max. mold thickness (to turntable surface)	mm	1250											
Min. mold thickness (to turntable surface)	mm	450											
Opening stroke	mm	1800/1000											
Max. daylight (to turntable surface)	mm	2250											
Center hole distance of fixed platen	mm	610-710											
Turntable diameter	mm	1650											
Max. turning diameter	mm	1750											
Ejector force	kN	150×2											
Effective ejector stroke	mm	247											
Power Unit													
System pressure	MPa	17.5/30											
Pump motor	kW	54.3+28.1+7.5											
Heating power	kW	22.2/24.6			14.4/16.8			16.6/19			10.9/12.1		
General													
Oil tank capacity	L	1040											
Machine dimensions (L×W×H)	m	9.8×3.3×3.3											
Max. turntable mold weight	T	8											

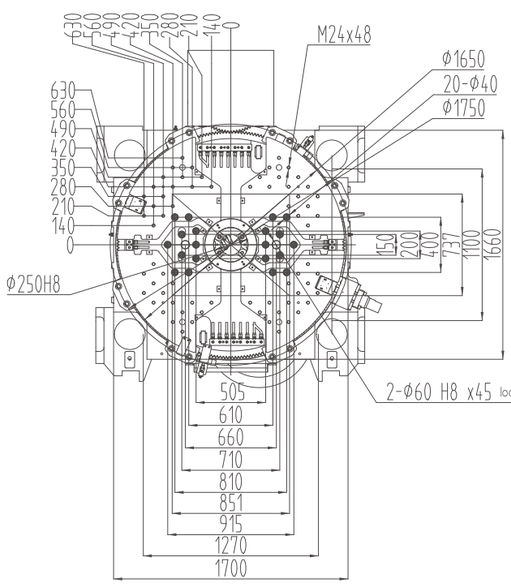
Note:
1. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
2. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm³] × injection pressure (MPa)/100.
3. Because of constant technical improvement, the machine specifications are subject to change without notice.

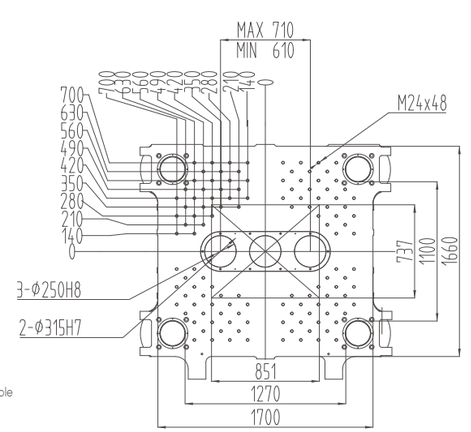
Machine Dimensions

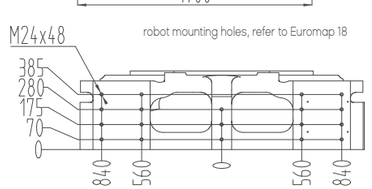


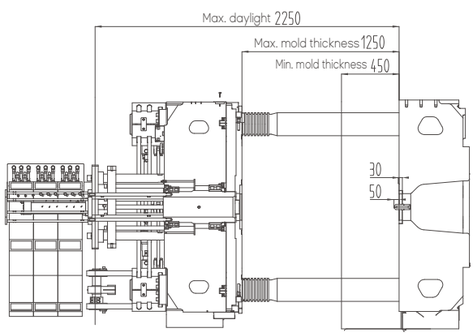


Platen Dimensions







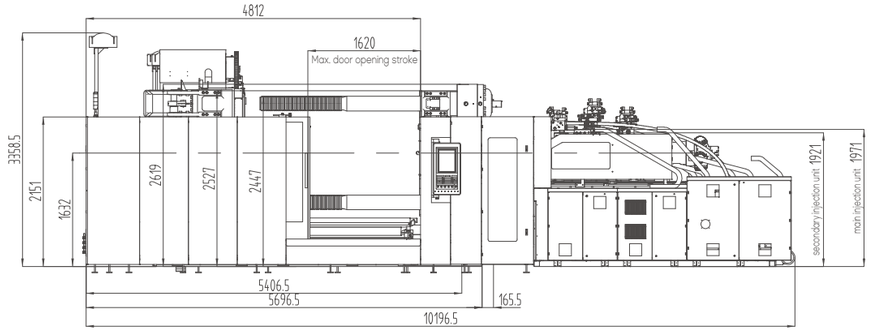


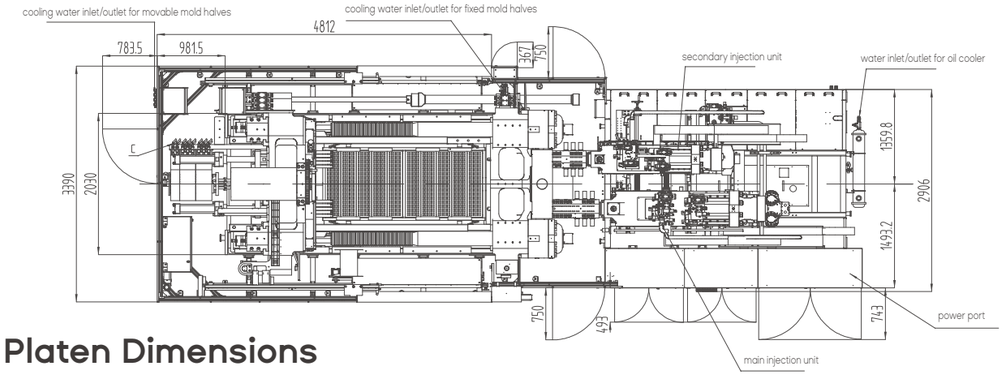
Specifications of UN1250D1SM-tP

UN1250D1SM-tP													
Injection Unit													
		Combination 1						Combination 2					
Model		IU3100			IU1870			IU3900			IU1310		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	68	76	84	60	68	76	76	84	92	53	60	68
Theoretical shot volume	cm³	1380	1724	2106	834	1071	1338	1769	2161	2593	585	749	962
Shot weight	g	1270	1586	1937	767	986	1231	1628	1988	2385	538	689	885
Injection pressure	MPa	227	182	149	225	175	140	221	181	151	237	185	144
Screw L:D ratio	L/D	22.3	20	20	22.6	20	20	22.3	20	20	22.6	20	20
Injection rate	cm³/s	366	458	559	291	373	467	381	466	558	223	285	367
Max. injection speed	mm/s	101			103			84			101		
Screw stroke	mm	380			295			390			265		
Max. screw speed	r/min	141			172			115			183		
Barrel heating zone	PCS	7			6			7			6		
Clamping Unit													
Clamping force	kN	12500											
Opening force	kN	875											
Space between tie bars	mm	1360×1210											
Max. mold thickness (to turntable surface)	mm	1300											
Min. mold thickness (to turntable surface)	mm	450											
Opening stroke	mm	2050/1200											
Max. daylight (to turntable surface)	mm	2500											
Center hole distance of fixed platen	mm	610-710											
Turntable diameter	mm	1800											
Max. turning diameter	mm	1890											
Ejector force	kN	150×2											
Effective ejector stroke	mm	247											
Power Unit													
System pressure	MPa	17.5/30											
Pump motor	kW	57.8+54.3+7.5											
Heating power	kW	26.4/30.9			22.2/24.6			33.1/36.2			16.6/19		
General													
Oil tank capacity	L	1040											
Machine dimensions (L×W×H)	m	10.2×3.4×3.4											
Max. turntable mold weight	T	11											

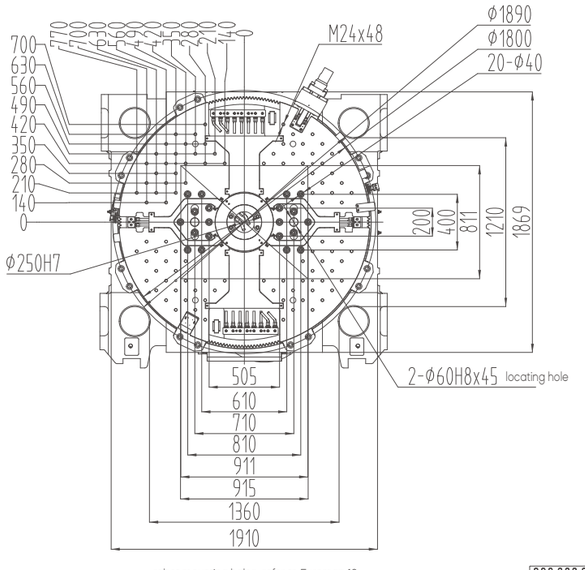
Note:
1. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
2. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm³] × injection pressure (MPa)/100.
3. Because of constant technical improvement, the machine specifications are subject to change without notice.

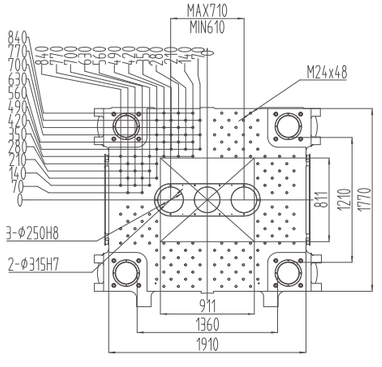
Machine Dimensions

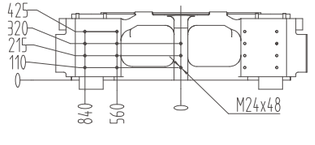


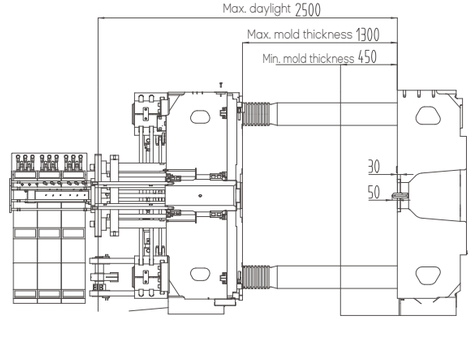


Platen Dimensions









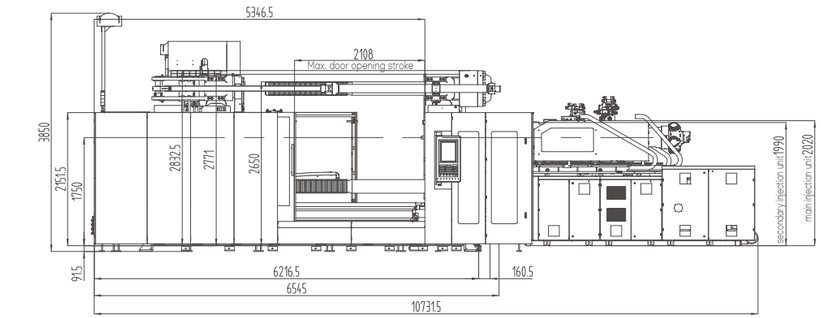
Specifications of UN1400D1SM-tP

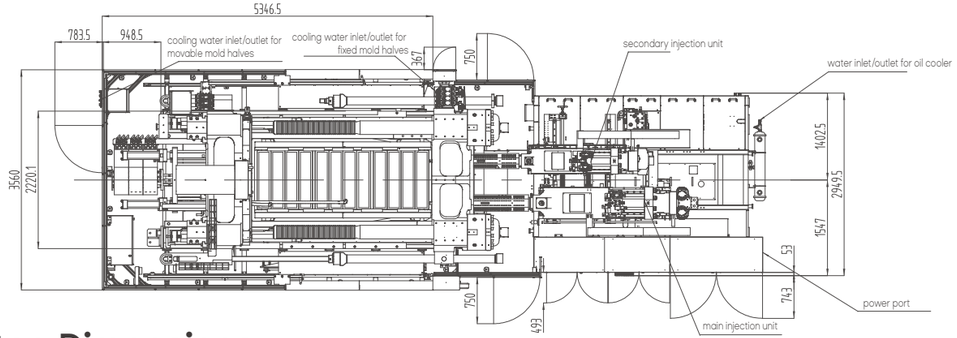
UN1400D1SM-tP													
Injection Unit													
		Combination 1						Combination 2					
Model		IU3100			IU1870			IU3900			IU1310		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	68	76	84	60	68	76	76	84	92	53	60	68
Theoretical shot volume	cm³	1380	1724	2106	834	1071	1338	1769	2161	2593	585	749	962
Shot weight	g	1270	1586	1937	767	986	1231	1628	1988	2385	538	689	885
Injection pressure	MPa	227	182	149	225	175	140	221	181	151	237	185	144
Screw L:D ratio	L/D	22.3	20	20	22.6	20	20	22.3	20	20	22.6	20	20
Injection rate	cm³/s	366	458	559	291	373	467	381	466	558	223	285	367
Max. injection speed	mm/s	101			103			84			101		
Screw stroke	mm	380			295			390			265		
Max. screw speed	r/min	141			172			115			183		
Barrel heating zone	PCS	7			6			7			6		
Clamping Unit													
Clamping force	kN	14000											
Opening force	kN	950											
Space between tie bars	mm	1470×1360											
Max. mold thickness (to turntable surface)	mm	1500											
Min. mold thickness (to turntable surface)	mm	550											
Opening stroke	mm	2350/1400											
Max. daylight (to turntable surface)	mm	2900											
Center hole distance of fixed platen	mm	610-750											
Turntable diameter	mm	2000											
Max. turning diameter	mm	2080											
Ejector force	kN	150×2											
Effective ejector stroke	mm	247											
Power Unit													
System pressure	MPa	17.5/30											
Pump motor	kW	57.8+54.3+7.5											
Heating power	kW	26.4/30.9			22.2/24.6			33.1/36.2			16.6/19		
General													
Oil tank capacity	L	1040											
Machine dimensions (L×W×H)	m	10.7×3.6×3.9											
Max. turntable mold weight	T	14											

Note:

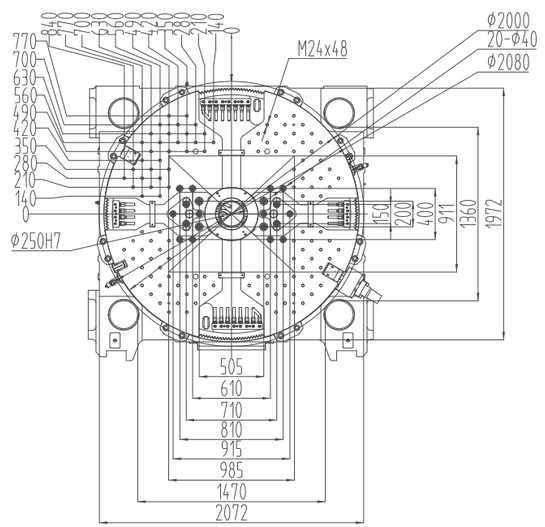
1. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
2. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm³] × injection pressure (MPa)/100.
3. Because of constant technical improvement, the machine specifications are subject to change without notice.

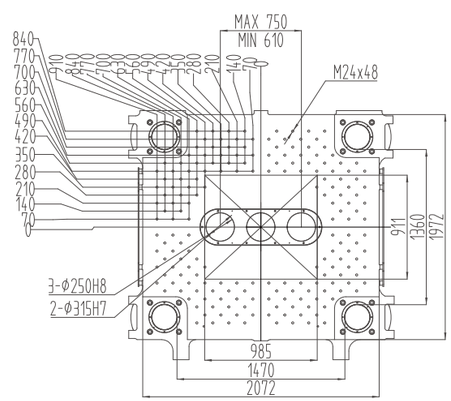
Machine Dimensions

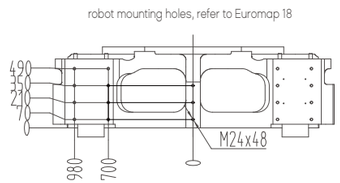


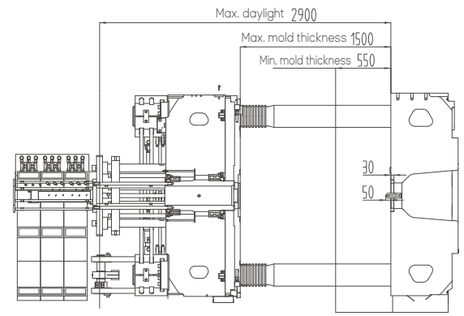


Platen Dimensions







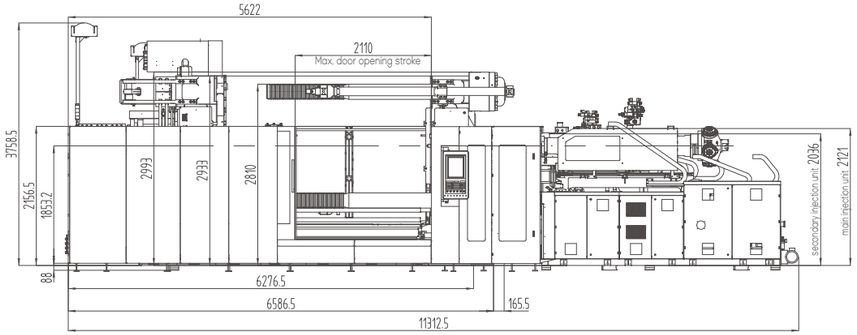


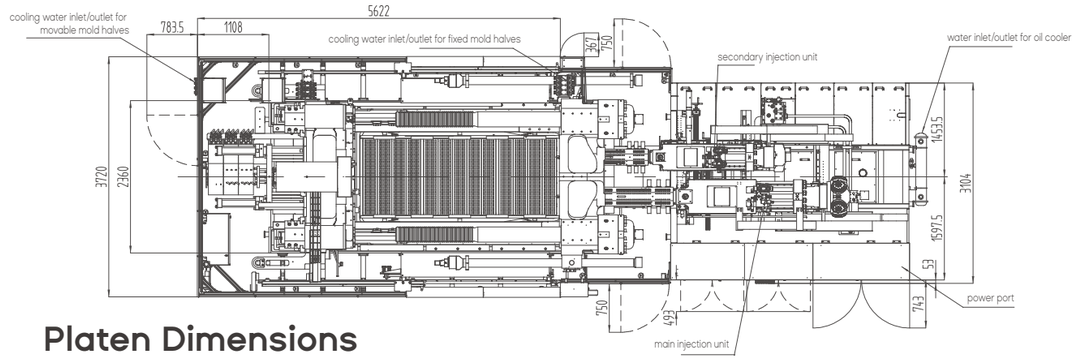
Specifications of UN1600D1SM-tP

UN1600D1SM-tP													
Injection Unit													
		Combination 1						Combination 2					
Model		IU3900			IU1870			IU3100			IU1870		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	76	84	92	60	68	76	68	76	84	60	68	76
Theoretical shot volume	cm³	1769	2161	2593	834	1071	1338	1380	1724	2106	834	1071	1338
Shot weight	g	1628	1988	2385	767	986	1231	1270	1586	1937	767	986	1231
Injection pressure	MPa	221	181	151	225	175	140	227	182	149	225	175	140
Screw L:D ratio	L/D	22.3	20	20	22.6	20	20	22.3	20	20	22.6	20	20
Injection rate	cm³/s	381	466	558	291	373	467	366	458	559	291	373	467
Max. injection speed	mm/s	84			103			101			103		
Screw stroke	mm	390			295			380			295		
Max. screw speed	r/min	115			172			141			172		
Barrel heating zone	PCS	7			6			7			6		
Clamping Unit													
Clamping force	kN	16000											
Opening force	kN	1100											
Space between tie bars	mm	1550×1450											
Max. mold thickness (to turntable surface)	mm	1600											
Min. mold thickness (to turntable surface)	mm	550											
Opening stroke	mm	2600/1550											
Max. daylight (to turntable surface)	mm	3150											
Center hole distance of fixed platen	mm	610-800											
Turntable diameter	mm	2150											
Max. turning diameter	mm	2210											
Ejector force	kN	150×2											
Effective ejector stroke	mm	247											
Power Unit													
System pressure	MPa	17.5/30											
Pump motor	kW	68.5+54.3+11											
Heating power	kW	33.1/36.2			22.2/24.6			26.4/30.9			22.2/24.6		
General													
Oil tank capacity	L	1100											
Machine dimensions (L×W×H)	m	11.3×3.7×3.8											
Max. turntable mold weight	T	17											

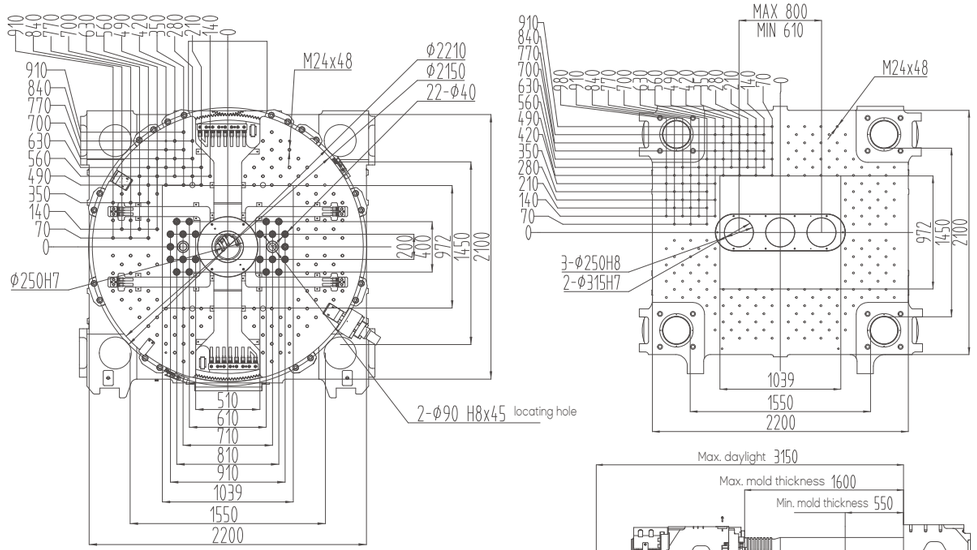
Note:
1. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
2. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm³] × injection pressure (MPa)/100.
3. Because of constant technical improvement, the machine specifications are subject to change without notice.

Machine Dimensions





Platen Dimensions

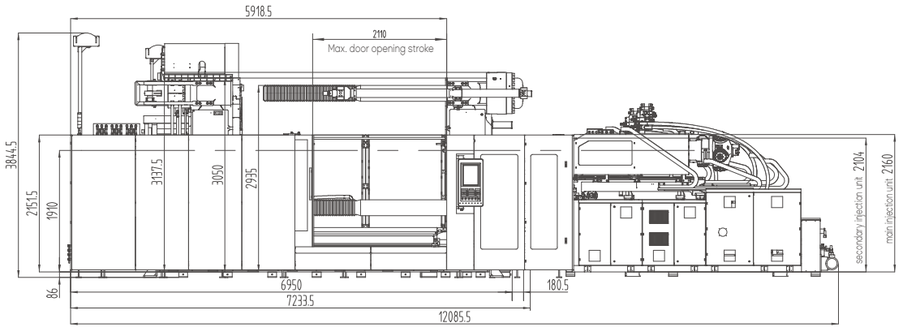


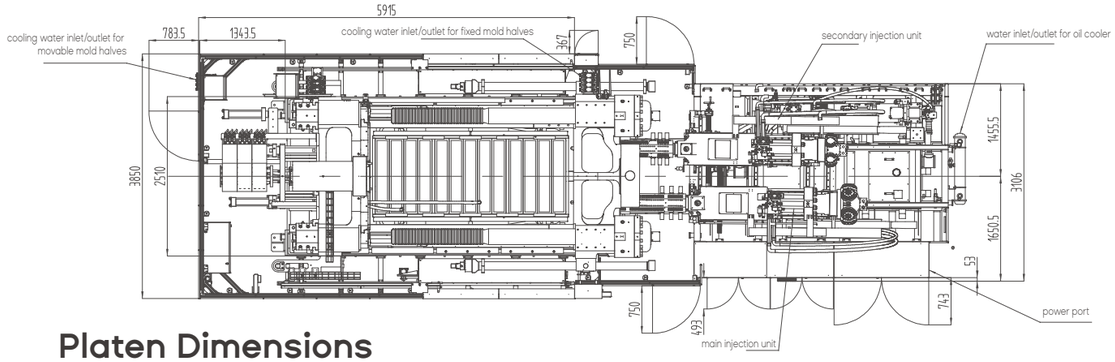
Specifications of UN1850D1SM-tP

UN1850D1SM-tP													
Injection Unit													
		Combination 1						Combination 2					
Model		IU3900			IU3100			IU5000			IU1870		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	76	84	92	68	76	84	84	92	108	60	68	76
Theoretical shot volume	cm³	1769	2161	2593	1380	1724	2106	2271	2724	3754	834	1071	1338
Shot weight	g	1628	1988	2385	1270	1586	1937	2089	2506	3454	767	986	1231
Injection pressure	MPa	221	181	151	227	182	149	221	184	134	225	175	140
Screw L:D ratio	L/D	22.3	20	20	22.3	20	20	21.9	20	20	22.6	20	20
Injection rate	cm³/s	381	466	558	366	458	559	481	578	796	291	373	467
Max. injection speed	mm/s	84			101			87			103		
Screw stroke	mm	390			380			410			295		
Max. screw speed	r/min	115			141			112			172		
Barrel heating zone	PCS	7			7			7			6		
Clamping Unit													
Clamping force	kN	18500											
Opening force	kN	1230											
Space between tie bars	mm	1650×1550											
Max. mold thickness (to turntable surface)	mm	1650											
Min. mold thickness (to turntable surface)	mm	600											
Opening stroke	mm	2600/1550											
Max. daylight (to turntable surface)	mm	3200											
Center hole distance of fixed platen	mm	650-850											
Turntable diameter	mm	2250											
Max. turning diameter	mm	2360											
Ejector force	kN	150×2											
Effective ejector stroke	mm	247											
Power Unit													
System pressure	MPa	17.5/30											
Pump motor	kW	68.5+57.8+11											
Heating power	kW	33.1/36.2			26.4/30.9			37.14/47			22.2/24.6		
General													
Oil tank capacity	L	1350											
Machine dimensions (L×W×H)	m	12.0×3.9×3.8											
Max. turntable mold weight	T	21											

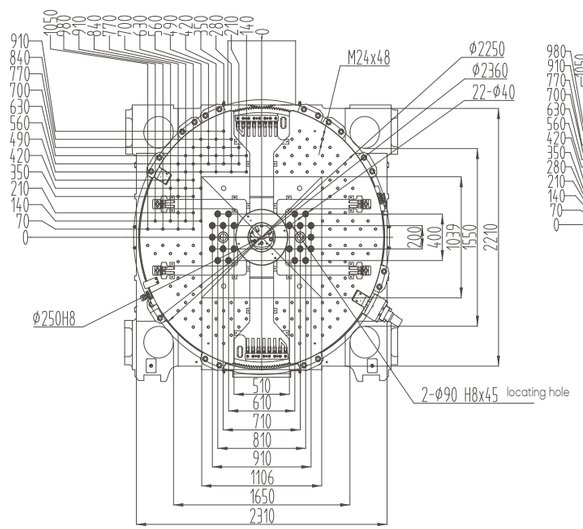
Note:
1. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
2. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm³] × injection pressure (MPa)/100.
3. Because of constant technical improvement, the machine specifications are subject to change without notice.

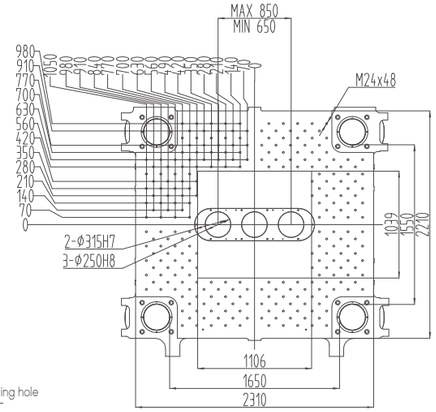
Machine Dimensions

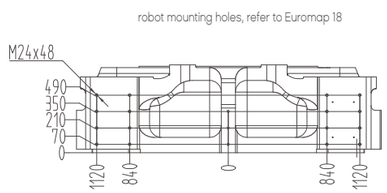




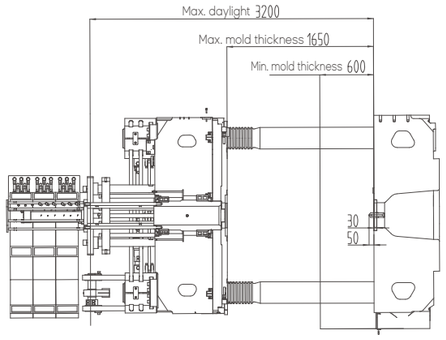
Platen Dimensions







robot mounting holes, refer to Euromap 18

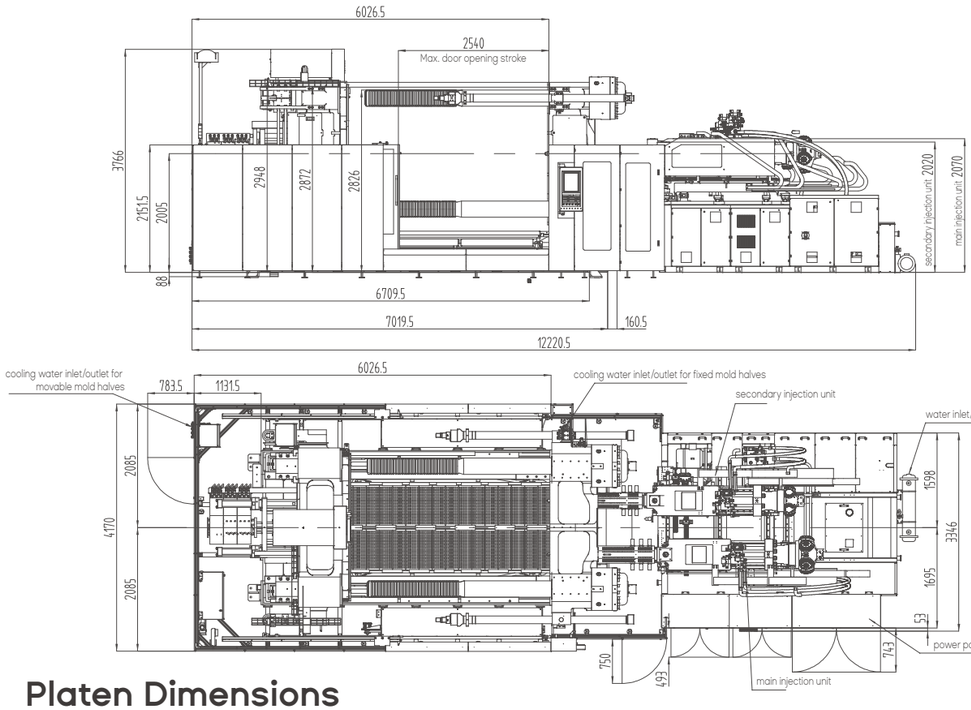


Specifications of UN2100D1SM-tP

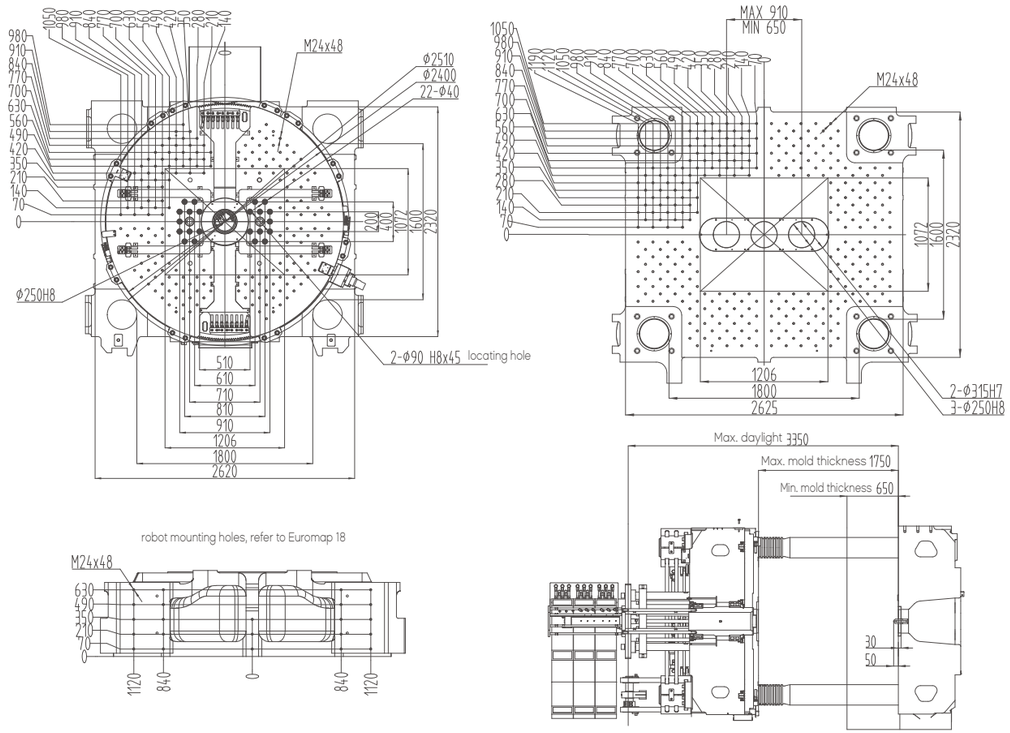
UN2100D1SM-tP													
Injection Unit													
		Combination 1						Combination 2					
Model		IU3900			IU3100			IU5000			IU3900		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	76	84	92	68	76	84	84	92	108	76	84	92
Theoretical shot volume	cm³	1769	2161	2593	1380	1724	2106	2271	2724	3754	1769	2161	2593
Shot weight	g	1628	1988	2385	1270	1586	1937	2089	2506	3454	1628	1988	2385
Injection pressure	MPa	221	181	151	227	182	149	221	184	134	221	181	151
Screw L:D ratio	L/D	22.3	20	20	22.3	20	20	21.9	20	20	22.3	20	20
Injection rate	cm³/s	381	466	558	366	458	559	481	578	796	381	466	558
Max. injection speed	mm/s	84			101			87			84		
Screw stroke	mm	390			380			410			390		
Max. screw speed	r/min	115			141			112			115		
Barrel heating zone	PCS	7			7			7			7		
Clamping Unit													
Clamping force	kN	21000											
Opening force	kN	1380											
Space between tie bars	mm	1800×1600											
Max. mold thickness (to turntable surface)	mm	1750											
Min. mold thickness (to turntable surface)	mm	650											
Opening stroke	mm	2700/1600											
Max. daylight (to turntable surface)	mm	3350											
Center hole distance of fixed platen	mm	650-910											
Turntable diameter	mm	2400											
Max. turning diameter	mm	2510											
Ejector force	kN	150×2											
Effective ejector stroke	mm	247											
Power Unit													
System pressure	MPa	17.5/30											
Pump motor	kW	80.1+57.8+11											
Heating power	kW	33.1/36.2			26.4/30.9			37.14/47			33.1/36.2		
General													
Oil tank capacity	L	1600											
Machine dimensions (L×W×H)	m	12.2×4.2×3.8											
Max. turntable mold weight	T	25											

Note:
1. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
2. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm³] × injection pressure (MPa)/100.
3. Because of constant technical improvement, the machine specifications are subject to change without notice.

Machine Dimensions



Platen Dimensions



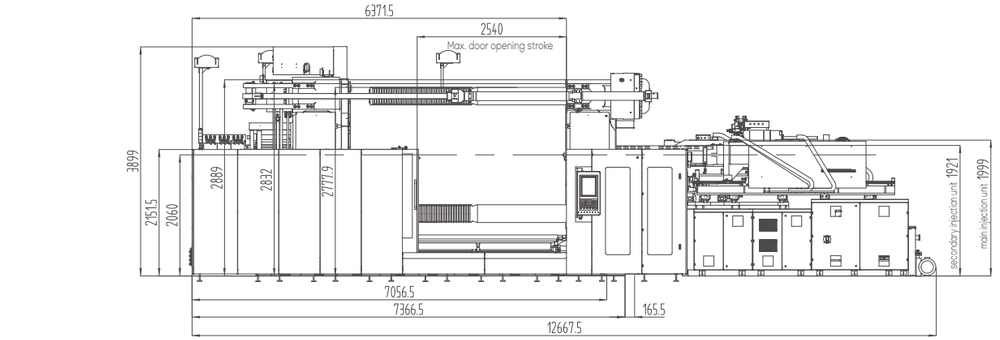
Specifications of UN2400D1SM-tP

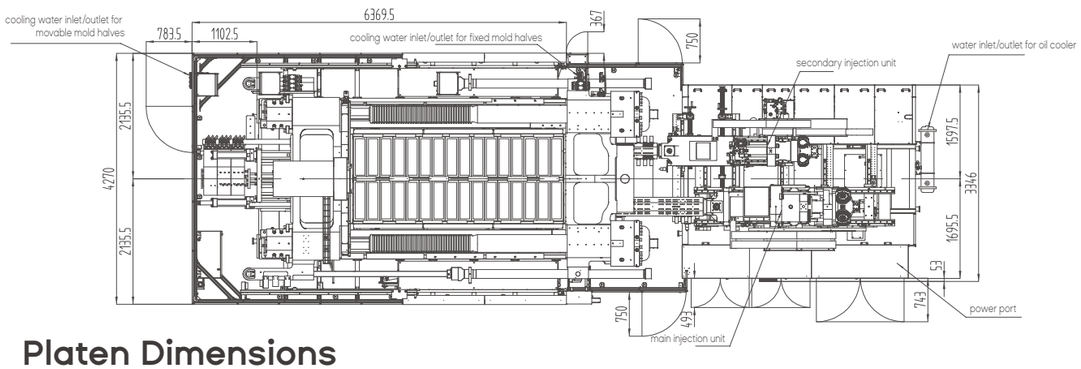
UN2400D1SM-tP													
Injection Unit													
		Combination 1						Combination 2					
Model		IU5000			IU3100			IU7000			IU5000		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	84	92	108	68	76	84	92	100	116	84	92	108
Theoretical shot volume	cm³	2271	2724	3754	1380	1724	2106	3189	3768	5070	2271	2724	3754
Shot weight	g	2089	2506	3454	1270	1586	1937	2934	3467	4665	2089	2506	3454
Injection pressure	MPa	221	184	134	227	182	149	229	193	144	221	184	134
Screw L:D ratio	L/D	21.9	20	20	22.3	20	20	21.7	20	20	21.9	20	20
Injection rate	cm³/s	481	578	796	366	458	559	571	675	908	481	578	796
Max. injection speed	mm/s	87			101			86			87		
Screw stroke	mm	410			380			480			410		
Max. screw speed	r/min	112			141			104			112		
Barrel heating zone	PCS	7			7			7			7		
Clamping Unit													
Clamping force	kN	24000											
Opening force	kN	1640											
Space between tie bars	mm	1900×1700											
Max. mold thickness (to turntable surface)	mm	1850											
Min. mold thickness (to turntable surface)	mm	650											
Opening stroke	mm	3000/1800											
Max. daylight (to turntable surface)	mm	3650											
Center hole distance of fixed platen	mm	650-950											
Turntable diameter	mm	2550											
Max. turning diameter	mm	2660											
Ejector force	kN	150×2											
Effective ejector stroke	mm	247											
Power Unit													
System pressure	MPa	17.5/30											
Pump motor	kW	80.1+68.5+11											
Heating power	kW	37.14/47			26.4/30.9			47/56.6			37.14/47		
General													
Oil tank capacity	L	1600											
Machine dimensions (L×W×H)	m	12.7×4.3×3.9											
Max. turntable mold weight	T	30											

Note:

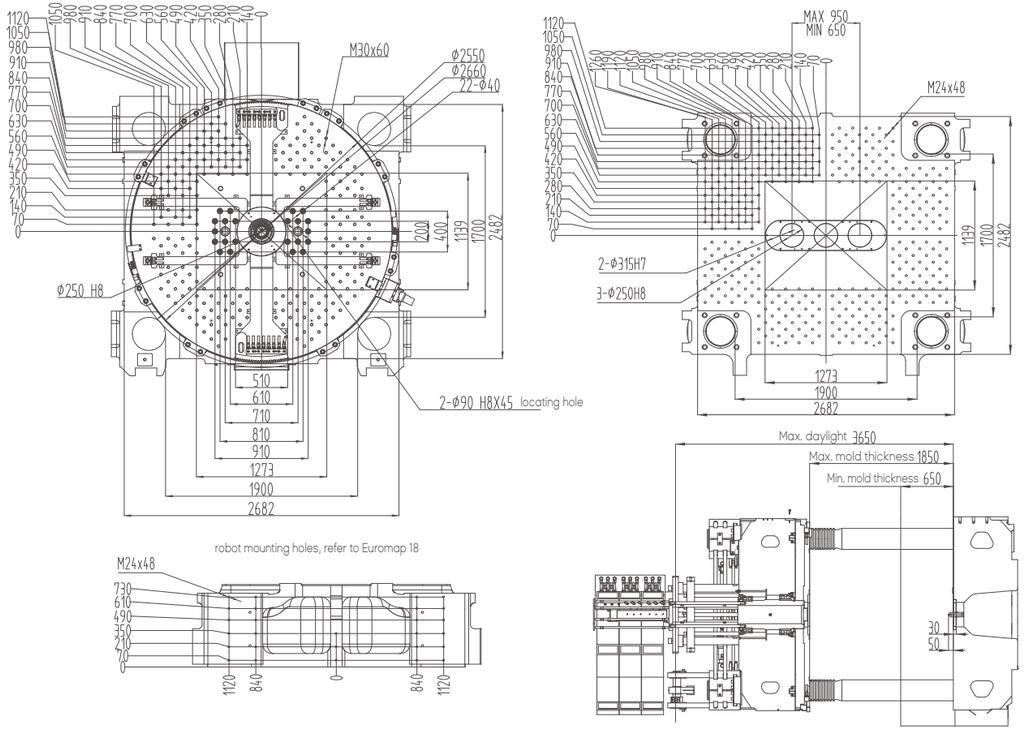
1. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
2. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm³] × injection pressure (MPa)/100.
3. Because of constant technical improvement, the machine specifications are subject to change without notice.

Machine Dimensions





Platen Dimensions

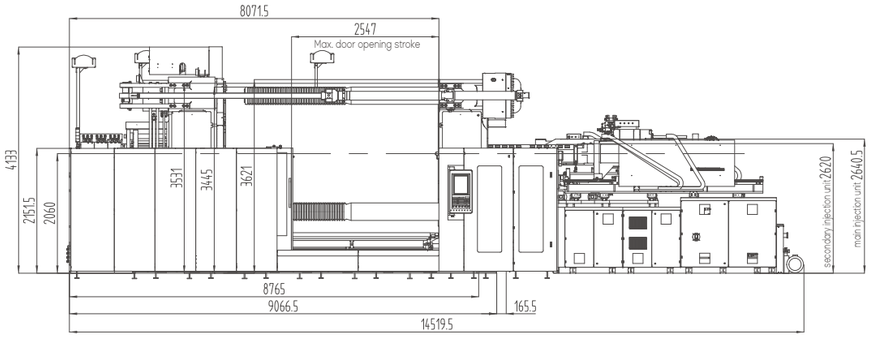


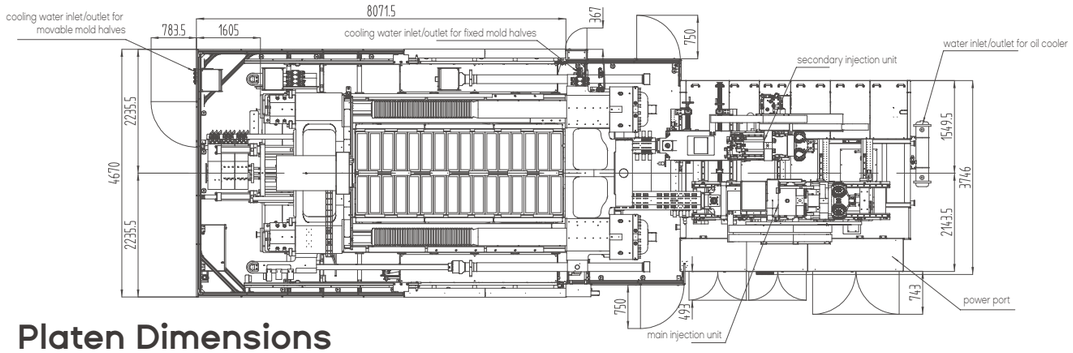
Specifications of UN2850D1SM-tP

UN2850D1SM-tP													
Injection Unit													
		Combination 1						Combination 2					
Model		IU7000			IU5000			IU7000			IU3900		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	92	100	116	84	92	108	92	100	116	76	84	92
Theoretical shot volume	cm^3	3189	3768	5070	2271	2724	3754	3189	3768	5070	1769	2161	2593
Shot weight	g	2934	3467	4665	2089	2506	3454	2934	3467	4665	1628	1988	2385
Injection pressure	MPa	229	193	144	221	184	134	229	193	144	221	181	151
Screw L:D ratio	L/D	21.7	20	20	21.9	20	20	21.7	20	20	22.3	20	20
Injection rate	cm^3/s	571	675	908	481	578	796	571	675	908	381	466	558
Max. injection speed	mm/s	86			87			86			84		
Screw stroke	mm	480			410			480			390		
Max. screw speed	r/min	104			112			104			115		
Barrel heating zone	PCS	7			7			7			7		
Clamping Unit													
Clamping force	kN	28500											
Opening force	kN	2200											
Space between tie bars	mm	2205×1780											
Max. mold thickness (to turntable surface)	mm	2030											
Min. mold thickness (to turntable surface)	mm	710											
Opening stroke	mm	3010/1690											
Max. daylight (to turntable surface)	mm	3720											
Center hole distance of fixed platen	mm	710-1000											
Turntable diameter	mm	2900											
Max. turning diameter	mm	2950											
Ejector force	kN	230×2											
Effective ejector stroke	mm	400											
Power Unit													
System pressure	MPa	17.5/30											
Pump motor	kW	105.2+68.5+11											
Heating power	kW	47/56.6			37.14/47			47/56.6			33.1/36.2		
General													
Oil tank capacity	L	2000											
Machine dimensions (L×W×H)	m	14.5×4.7×4.1											
Max. turntable mold weight	T	35											

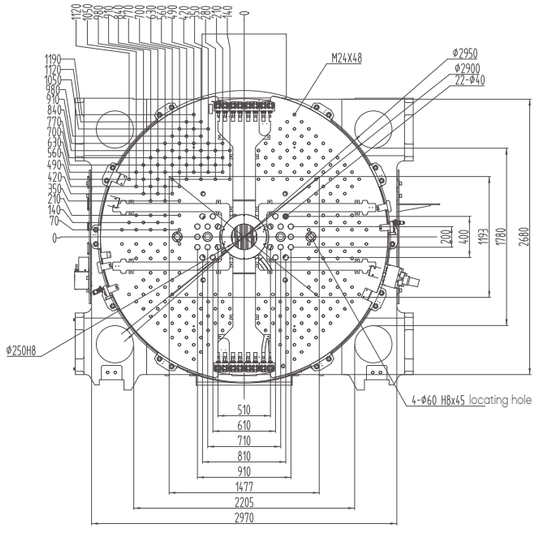
Note:
1. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
2. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm^3] × injection pressure (MPa)/100.
3. Because of constant technical improvement, the machine specifications are subject to change without notice.

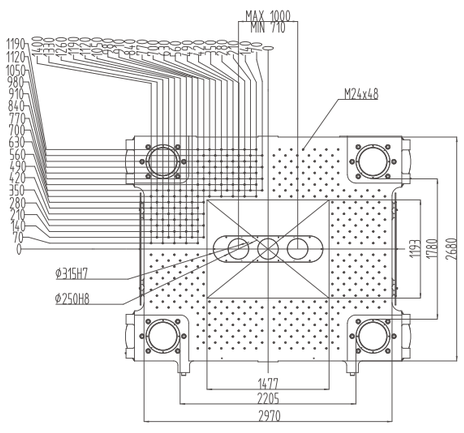
Machine Dimensions

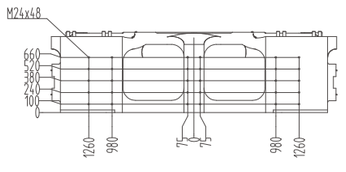




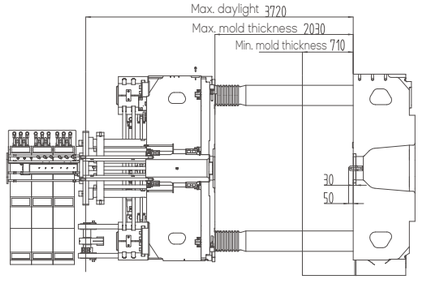
Platen Dimensions







robot mounting holes, refer to Euromap 18

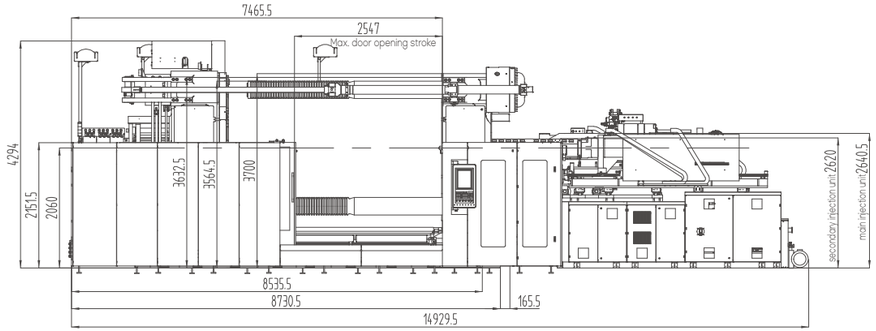


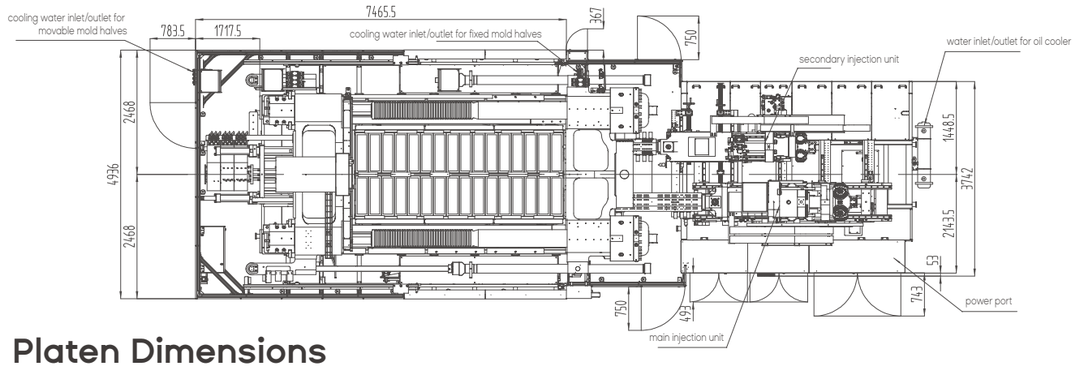
Specifications of UN3400D1SM-tP

UN3400D1SM-tP													
Injection Unit													
		Combination 1						Combination 2					
Model		IU9200			IU7000			IU9200			IU5000		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	100	108	125	92	100	116	100	108	125	84	92	108
Theoretical shot volume	cm³	4318	5036	6746	3189	3768	5070	4318	5036	6746	2271	2724	3754
Shot weight	g	3972	4633	6206	2934	3467	4665	3972	4633	6206	2089	2506	3454
Injection pressure	MPa	214	184	137	229	193	144	214	184	137	221	184	134
Screw L:D ratio	L/D	21.6	20	20	21.7	20	20	21.6	20	20	21.9	20	20
Injection rate	cm³/s	769	897	1202	571	675	908	769	897	1202	481	578	796
Max. injection speed	mm/s	98			86			98			87		
Screw stroke	mm	550			480			550			410		
Max. screw speed	r/min	108			104			108			112		
Barrel heating zone	PCS	8			7			8			7		
Clamping Unit													
Clamping force	kN	34000											
Opening force	kN	2550											
Space between tie bars	mm	2260×1920											
Max. mold thickness (to turntable surface)	mm	2000											
Min. mold thickness (to turntable surface)	mm	900											
Opening stroke	mm	3100/2000											
Max. daylight (to turntable surface)	mm	4000											
Center hole distance of fixed platen	mm	710-1000											
Turntable diameter	mm	3000											
Max. turning diameter	mm	3100											
Ejector force	kN	230×2											
Effective ejector stroke	mm	400											
Power Unit													
System pressure	MPa	17.5/30											
Pump motor	kW	105.2+80.1+11											
Heating power	kW	51.76/60.9			47/56.6			51.76/60.9			37.14/47		
General													
Oil tank capacity	L	2000											
Machine dimensions (L×W×H)	m	15.0×5.0×4.3											
Max. turntable mold weight	T	40											

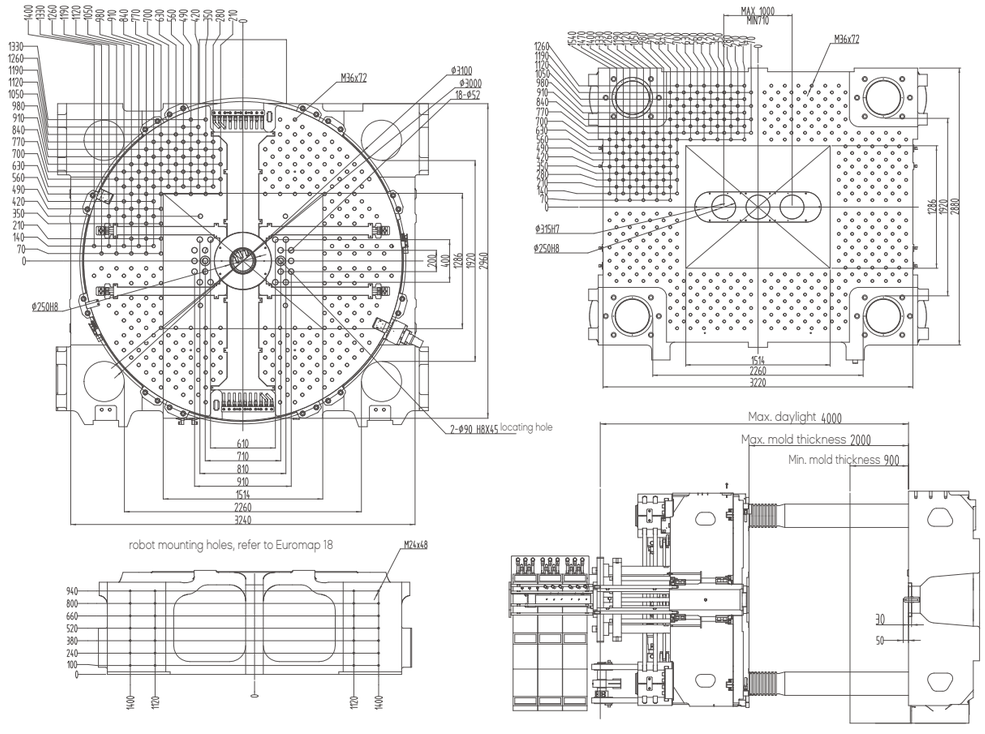
Note:
1. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.
2. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm³] × injection pressure (MPa)/100.
3. Because of constant technical improvement, the machine specifications are subject to change without notice.

Machine Dimensions





Platen Dimensions



Standard & Optional Features

Features	Standard	Optional
Clamping Unit		
Clamping unit with tie bars independent of movable platen	●	
Quantitative volumetric automatic lubrication	●	
High-response proportional control of pressure and flow for mold opening/closing	●	
Hydraulically-driven ejection device	●	
Low-pressure mold protection	●	
Clamping force adjustment as needed	●	
Ejector return protection	●	
Robot mounting hole (Euromap 18)	●	
Electric door (optional for 550/750T)	●	
Platen, injection base made of high-rigidity ductile iron	●	
Hydraulic and electrical safety devices	●	
Safety foot panel in mold area (optional for 550/750T)	●	
High-accuracy magnetostrictive displacement sensor (non-contacted) for mold opening/closing control	●	
Mold spring	●	
Drip tray in mold area	●	
Servo drive for turntable	●	
Pipe routing for turntable distribution	●	
High-pressure mold opening	●	
Turntable with 2 stations, 180° reversible rotation	●	
Safety foot plate in front & rear door areas		○
Synchronized ejector 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		○
Mold thermal insulation plate		○
Special mold mounting hole		○
Increased mold opening stroke		○
Increased ejection force		○
Turntable with 3/4 stations, 360° rotation		○
Platen with T slots		○
Eccentric Mold		○
Electric Control System		
Closed-loop PID barrel temperature control	●	
Manual, semi-auto and fully-auto operating mode	●	
Split-type quick coupling for barrel	●	
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	●	
Emergency stop of safety gates	●	
Online cycle monitoring	●	
15" TFT color touch screen	●	
Visualized graphic programming	●	
PDP interface	●	
Injection monitoring protection	●	
Mold-close monitoring protection	●	
Statistical process control (SPC) interface	●	
IP54 electrical cabinet	●	
Screw speed detecting device	●	
Time/ position/ time+position control modes for switchover to holding phase (two sets of parameters for each color)	●	
Protective plate in mold area	●	
3 sets of 380V 32A socket (2 sets for 750T and below models)	●	
1 set of 380V 16A socket (2 sets for 750T and below models)	●	
16-level password security	●	
Reserved robot interfaces based on SPI, EUROMAP 12	●	
Automatic heat preserving, automatic heating settings	●	
Automatic optimization of clamping force	●	
Dual process parameter setting function	●	
Remote control function	●	
Servo injection		○
Electric unscrewing device		○
Hot runner interface		○
Auxiliary emergency stop button		○
Air blowing in fixed mold		○
Special power supply		○
Central (networked) monitoring system		○
Protective light curtain of front and rear safety gates		○
Opto-electronic safety switch of front and rear safety gates		○
Protective light curtain of central safety foot panel		○
Slip ring for turntable		○
Injection Unit		
Single-cylinder parallel injection unit with low-speed high torque hydraulic motor	●	
PC/PMMA screw & barrel component	●	
Increased one-grade plasticizing motor	●	
Energy-saiving heat-retaining barrel guard	●	
Selectable suck-back before or after plasticizing	●	
10-stage injection speed/ pressure/ position control	●	
10-stage holding speed/ pressure/ position/ time control	●	
5-stage plasticizing speed/ pressure/ position/ time control	●	
Linear guides for injection unit	●	
Cold start protection	●	
Manual central lubrication system of injection unit	●	
Suck back function	●	
Automatic purging	●	
Screw rotation measuring device	●	
Injection unit equipped with linear guide for left-right movement, reserved central hole for fixed platen, movable parallel injection unit	●	
Main injection unit used for single-color applications	●	
Stainless steel/electroplating bushing for feeding port	●	
Closed-loop temperature detection of feeding port	●	
Injection carriage transducer		○
Mixing screw		○
Bi-metallic screw barrel		○
Extended nozzle (50/100/150/200mm longer)		○
Special screw component		○
Energy-saving barrel heat retaining device (silicone cover)		○
Spring shut-off nozzle		○
Increased injection stroke		○
L-type, V-type injection unit		○
Hydraulic System		
Low-noise energy-saving hydraulic circuit	●	
Proportional back pressure control for plasticizing	●	
Automatic oil pre-heating system	●	
550T: 4 sets of water circuits , 2 sets of core pulling, 3/8" pipe diameter 750/900/1100/1250T: 8 sets of water circuits, 2 sets of core pulling, 3/8" pipe diameter 1400/1600/1850/2100/2400T: 8 sets of water circuits, 4 sets of core pulling, 1/2" pipe diameter 2850/3400T: 10 sets of water circuits, 4 sets of core pulling, 1/2" pipe diameter PTFE high-temperature hose (resistant to 180°C)	●	
2 sets of core pulling for fixed platen	●	
Differential mold-open circuit	●	
Injection and mold-close pressure protection	●	
High-pressure mold opening	●	
Automatic pressure and flow calibration	●	
Oil temperature and oil level alarm	●	
Closed-loop temperature control	●	
High-performance servo pump system	●	
Multiple sets of sequence (injection) valve interface		○
Variable displacement pump system		○
Closed-loop proportional variable displacement pump system		○
High-response accumulating servo injection system		○
Larger oil cooler		○
Multi-capacity larger pump motor		○
Multi-capacity larger plasticizing motor		○
Servo injection (closed-loop control of injection, plasticizing, holding pressure and back pressure)		○
Plasticizing during mold opening		○
Multiple sets of core pulling or unscrewing devices with electrical interfaces		○
General		
User manual	●	
Adjustable leveling pad	●	
8-in 8-out water manifold on fixed platen	●	
Nozzle spanner	●	
Mold clamp (8 pcs)	●	
Sliding hopper		○
Hydraulic oil		○
Loading platform		○
Mold temperature controller		○
Automatic loader		○
Dehumidifying dryer		○