

THINK TECH FORWARD

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Designed by YIZUMI, June 2025

YIZUMI

CG-P

160T-800T

HIGH-END MULTI-COMPONENT
INJECTION MOLDING MACHINE

Stability and Customization



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【DISCLAIMER】

[1] YIZUMI reserves the right to modify the product description in the catalogue. Specification might be changed without prior notice.

[2] The picture in the catalogue is for reference only. The real object should be considered as final.

[3] The data in the catalogue is obtained from internal testing in YIZUMI laboratory.

Please refer to the actual machine for the final data. YIZUMI reserves the right of final interpretation upon disputes and ambiguities.



THINK TECH FORWARD

CG-P

PRODUCT DETAILS

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YIZUMI CG-P series multi-component injection molding machine is created to meet the increasing demand for higher quality of life and customization. Based on advanced technology introduced from European R&D center and expected to provide the core value-stability and customization-to customers, the C series is committed to making our life more colorful.

Widely used in different industries:



3C products



Auto parts



Auto parts



Auto parts



Daily necessities



Household appliance accessories



Protective layers of tools



Packaging



Medical products



Laptop accessories



Application of Special Process

Value Propositions

➤ Stability

With the use of balanced force clamping (BFC) technology, magnetically levitated turntable (MLT) technology, digital closed-loop positioning control (DCPC) technology, super long sliding support and smart mold-open deceleration technology, movements of the clamping unit and rotary unit are stable and reliable. The mold-open position repeatability is up to $\pm 0.3\text{mm}$.

➤ Customization

Standardized and modular design is applied to the whole machine, including the injection unit, power unit and plasticizing unit. The integration with the free programming function in software makes customization more mature.

More user-friendly interface

The foolproof and Simple Style (SS) design with the user habits fully considered makes the control system more easy to use.

More advanced turntable control technology

With the digital closed-loop positioning technology, turntable positioning is more accurate.

More durable anti-wear turntable design

The combination of double-row needle bearings that have high load capacity and magnetically levitated turntable technology makes the turntable more durable and reliable.

± 0.3

Higher mold-open stability

Optimal hydraulic circuit design and smart deceleration technology enable the mold-open position repeatability to reach $\pm 0.3\text{mm}$.

More scientific custom design

Modular combinations of different injection units and power units according to different processes requirements and the free programming function enable customization to become increasingly mature.

More excellent injection stability

The injection accuracy is further enhanced thanks to the low-inertia moving part design, accurate temperature control and non-stick plasticizing screw.



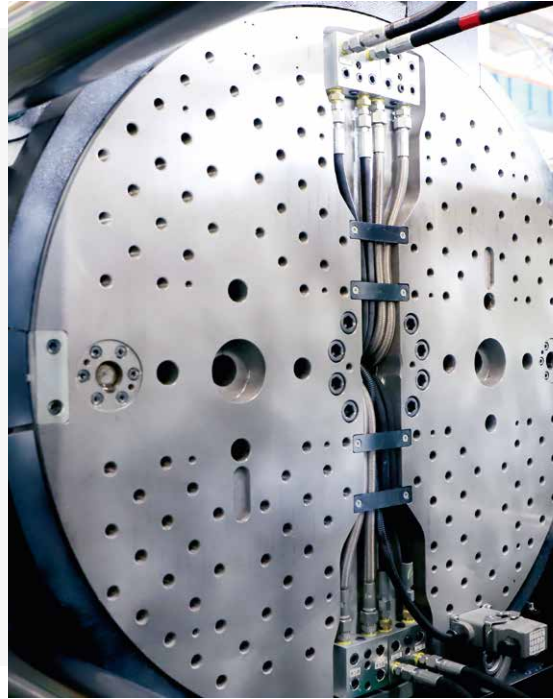
※Data above come from YIZUMI lab, available for reference.

Pictures and descriptions of this catalogue takes UN260CG-BTP as an example, technology specification is applicable for CG-P series machines of all tonnage.

Clamping Unit

Reliable and stable, accurate turntable positioning

Based on European platen design concept, platens are designed with higher rigidity and more accurate force analysis. The BFC (balanced force clamping) technology can adjust the clamping force transmission direction so that the force is applied to the mold more evenly and injection molding is more stable. The MLT (magnetically levitated turntable) technology enhances the durability of turntable. The DCPC (digital closed-loop positioning control) technology ensures the accuracy and high repeatability of turntable positioning.



Balanced force clamping technology

The BFC technology delivers high platen rigidity, long mold life. Easily-adjustable processes and minimized possible flashes and better ensures molding accuracy and stability.



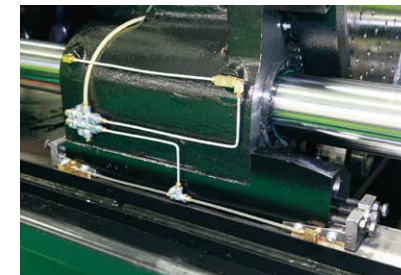
Magnetically levitated turntable technology

The turntable is designed with magnetic levitation (for 160T/260T) to reduce frictional loss, increase the movement reliability and prolong the life of turntable.



Digital closed-loop positioning control technology

The DCPC technology enables the turntable to rotate smoothly without impact and position accurately.



Tilt proof sliding support design

The sliding support of movable platen, which are designed based on the needs of guiding and supporting the centre of gravity, can effectively increase the movement steadiness and prolong the mold life.

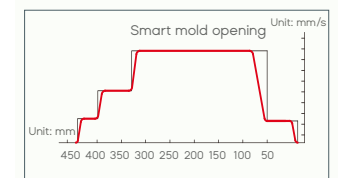
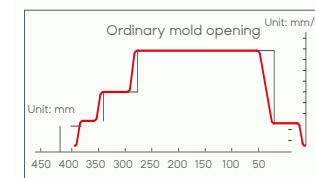
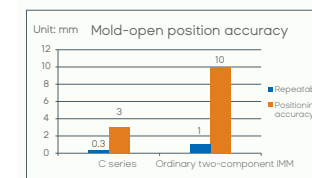


Optional rotary shaft module or integrated turntable rotary shaft module

Based on BTP series, movable platen can be equipped with optional rotary shaft to meet the process requirement for mold core rotation of dual-color products.

Smart mold-open deceleration technology

The mold-open end position repeatability is $\pm 0.3\text{mm}$ and the positioning accuracy is further enhanced, which meet the needs of accurate part removal and inserting by robot.



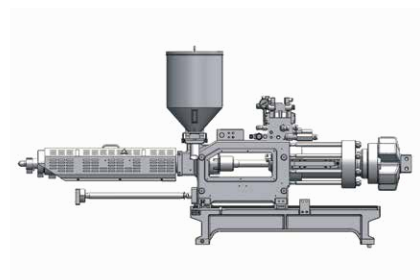
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Injection Unit



High injection repeatability

Based on European single-cylinder injection technology, the injection unit has low inertia and the injection cylinder is highly leak-proof. The anti-sticking mixing screw and accurate temperature control also add to the injection stability. The part weight repeatability is up to 3‰.



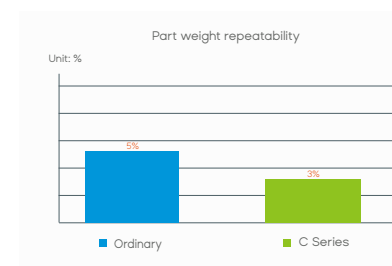
High-rigidity low-inertia injection unit

With the adoption of low-inertia moving parts, the injection movement response is quick and the injection accuracy is further improved.



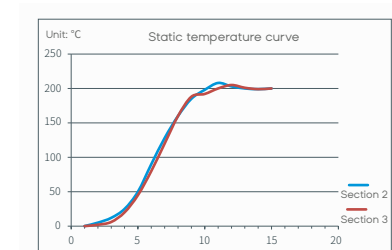
High-mixing non-stick plasticizing screw design

By adopting optimized mixing parameters design, high efficiency of plasticizing and better mixing effect can be ensured. Also, problems of sticking, yellowing and blackening can be solved.



Excellent injection accuracy

Part weight repeatability is up to 3‰.



New-generation PID temperature control

With the self-adaptive PID temperature control, the static temperature control accuracy is up to ± 0.4 degrees centigrade.



Modular injection unit combination

Customization is available through the flexible combination of injection units according to different processes requirements and flexible software functions.

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

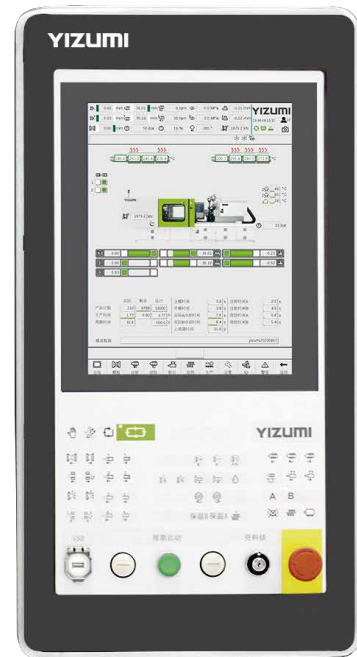
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Control System

Intelligent, integrated, user-friendly HMI

Austrian high-performance controller — with intelligent functions, multi-processes integrated, visual curve, statistical analysis, user-friendly HMI and fast response, provide the best control system solution for CG-P series!

- ▶ Synchronously controlled by double CPUs, it only takes 1ms to scan, ensuring the computing time of every movement of the injection unit is limited to 1ms;
- ▶ The turntable/ rotary shaft positioning is more accurate with the use of synchronous communication technology and servo closed-loop positioning technology;
- ▶ Closed temperature loop control, more accurate control on temperature;
- ▶ Standard 15 inch HD color touchscreen display with clear and neat screen layout;
- ▶ Real-time remote control and operation;
- ▶ USB port for extension of mold parameter storage, easy and convenient operation;
- ▶ Statistical process control (SPC) for multiple injection units;
- ▶ Multi-level of user access management and data protection to ensure data security;
- ▶ Setup and tracking of key movement curves;
- ▶ Expandable I/O modules allow integration of more features, e.g. built-in hot runner control and sequence valve;
- ▶ Flexible software functions, multiple and various injection units to meet flexible needs;
- ▶ Standard feature of OPC-UA interface (hardware).



Precision energy consumption analysis

Optional smart meter for machine energy consumption monitoring and analysis. The results can be displayed on controller screen.



Intelligent clamping management system

Optional intelligent clamping force function allows real-time display and optimization of machine's actual clamping force, helping save energy, improve product stability and protect molds. Automatic optimization of process parameters is available.



Flexible, interconnected, integrated

Through OPC UA, RS485, or other international standard interfaces to realize seamless connection with robot, mold temperature controller, MES, and other auxiliary machines or management systems, providing an open, compatible, integrated system for IoE.



Integration of multi-process software

Based on the diverse needs of industry applications, continuously updated process software system will provide users with a wider range of more flexible process options.



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L/V Independent Injection Unit

Flexible combination for wider range of applications

Meet the combination needs of injection molding machines of different tonnages and different brands through modular design. Quickly build a dual-component injection molding machine.

Independent V injection unit

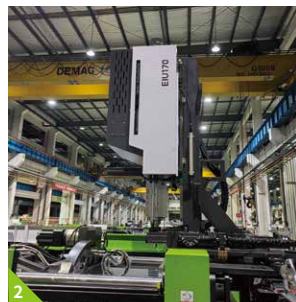
Independent V-type injection unit adopts independent modular design to meet the combination needs of injection molding machines of different tonnages. With YIZUMI's optimization design, the removal of the injection unit provides more mold height for convenient installation and disassembly of molds

Independent L injection unit

Independent L-type injection unit adopts independent modular design to meet the combination needs of injection molding machines of different tonnages and different brands. Flexible injection unit is convenient for using, providing series functions including core pulling, sequential valve, hot runner and synchronous action.

User-friendly design for ease of use

The controller operating platform uses a detachable design that allow customer to determine the operating position flexibly according to user habits. Adjust the application range of the independent injection unit using the hand wheel to accommodate molds of different sizes.



- ① Hydraulic V injection unit
- ② Electric V injection unit
- ③ Hydraulic L injection unit
- ④ Independent controller
- ⑤ Adjustable handwheel of independent injection unit
- ⑥ Electric L injection unit

Compact design for easy storage

The independent injection unit can be equipped with the optional roller for easy migration and storage of the injection unit.



Optional needle valve control

The independent injection unit can render needle valve control to either the primary injection element or the secondary injection unit to compensate inadequate configuration of the main unit.



Optional hydraulic pulling function (for hydraulic injection unit)

The pulling and control effect for mold control driven by the independent injection unit is the same as the control effect provided by a main unit that comes with core-pull.



Optional hot runner

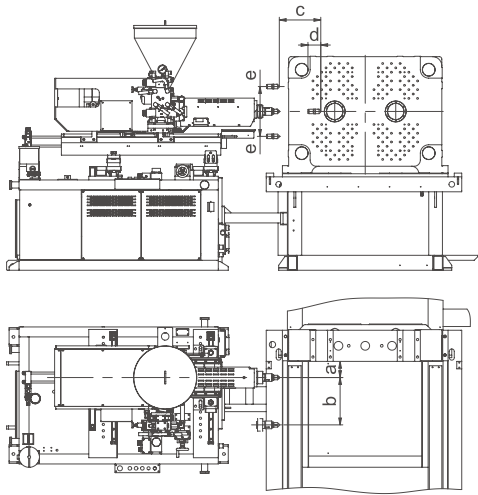
The independent injection unit is equipped with a computer that can help to achieve extended control over 6-32 sets of hot runners to meet the molding needs of multiple hot runners.



L/V Independent Injection Unit

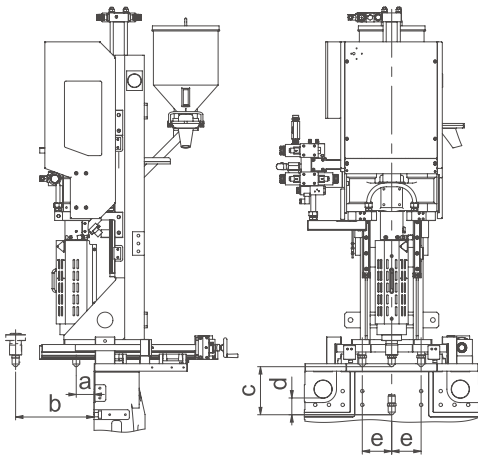
L-type injection unit configuration

Specifications	a/mm	b/mm	c/mm	d/mm	e/mm
IU110L	70	Standard 100 Optional 300 Note: when the mold thick- ness is too small, close to the minimum mold thickness of the corre- sponding tonnage, b will make adjustments according to customer needs.	260-750 CG-BTP: 500	260CG-BTP:70 360CG-BTP:70 550CG-BTP:80 750CG-BTP:80	±5
IU295L	80				
IU420L	80				
IU604L	80				
IU895L	110				
IU1000L	110				
IU1340L	110				
IU1800L	120				



V-type injection unit configuration

Specifications	a/mm	b/mm	c/mm	d/mm	e/mm
IU110V	70	220 Note: when the mold thickness is too small, close to the minimum mold thickness of the corresponding tonnage, b will make adjustments according to customer needs to avoid collision between nozzle and movable platen.	260-750 CG-BTP: 350	260-750CG-BTP: 50	±5
IU295V	80				
IU420V	80				
IU604V	80				
IU895V	95				



Independent Injection Unit

Independent modular design

Due to modular design, electrical injection unit can combine with hydraulic machine to build hybrid gasoline-electric dual-color machine, or with all-electric machine to all-electric dual-color machine. By flexible combination method, L-type/V-type electrical injection unit are also available.

- Compact design for easy storage**

Injection, plasticizing and carriage are under all-electric control. With compact design, electrical injection unit is easy for storage.
- Injection unit retraction and rear-mounted feeding port**

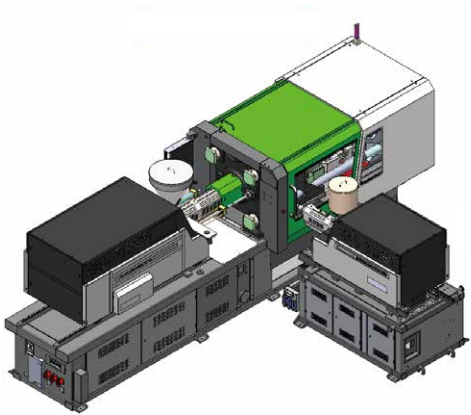
The V injection unit features retraction design and rear-mounted feeding port as a standard feature, providing enhanced space accessibility for easier mold mounting and dismounting operations.
- All servo-motor driven**

High injection repeatability accuracy, rapid response and stable molding
- Clean and environmentally friendly**

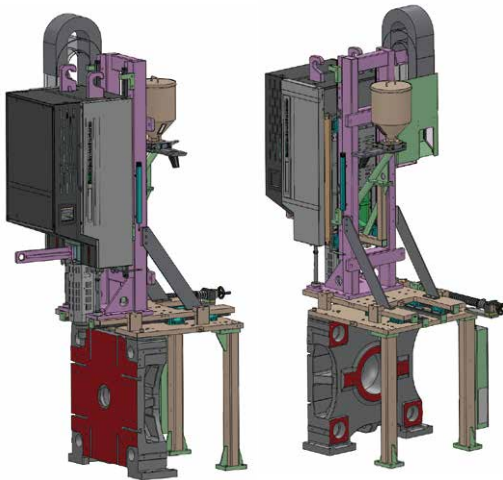
All-electric control is cleaner and low consuming of energy than hydraulic control, especially suitable for the highly required production environment.
- Flexible combination**

Used as L-type or V-type injection unit to meet different mold production.
- Strong compatibility**

Meet dual and multi-color molding combination of injection molding machines of different tonnages and different brands with low cost in operation.



▲ Independent L injection unit



▲ Independent V injection unit

* 1. All data on this page are provided by YIZUMI factories. Actual numbers for custom machines may vary.
2. The product images and text content displayed in the pages above are for illustration only. The actual product (including but not limited to its appearance, color, and dimensions) may vary slightly.

Note: As to the specification of electric independent injection unit, please refer to FF series.

Specifications of UN160CG-BTP

DESCRIPTION		UN160CG-BTP									
INJECTION UNIT											
		The injection units mentioned above can be combined randomly.									
International specifications	UNIT	300			190			110		70	
		A	B	C	A	B	C	A	B	A	B
Screw diameter	mm	30	35	40	26	30	35	22	26	19	22
Screw L/D ratio	L/D	24	20	20	24	22	20	20	20	20	20
Theoretical shot volume	cm³	117	159	207	72	95	130	42	58	27	36
Shot weight(PS)	gram	107	146	191	66	88	119	38	54	25	33
Injection pressure	MPa	257	189	145	259	194	143	261	187	273	203
Max. injection speed (standard/optional)	mm/s	112/140			116/148			160/205		206/264	
Injection rate (standard)	g/s	73	99	129	57	75	103	56	78	54	72
Screw speed (standard)	rpm	219			171			204		204	
Screw stroke	mm	165			135			110		95	
CLAMPING UNIT											
Clamping force	kN	1600									
Opening stroke	mm	360									
Mold thickness	mm	150-430/480 (optional)									
Max. turning diameter	mm	855									
Turntable load capacity①	t	0.7									
Distance between centers of mold locating holes	mm	420 (optional 400)									
Space between tie bars	mm	710x420									
Effective ejector stroke②	mm	100									
Ejector force	kN	28x2									
GENERAL											
Max. system pressure	MPa	17.5									
Motor power (standard/optional)	kW	17.8/21.4			12.4/17.8			12.4/17.8		12.4/17.8	
Heating power	kW	6.9/7.8			5.5/6.9			4.8/5.5		4.6/4.8	
Machine dimensions (L×W×H)	m	5.56x1.75x2.13									
Machine weight③	t	7.05									
Hopper capacity	kg	25									
Oil Tank capacity	L	340									

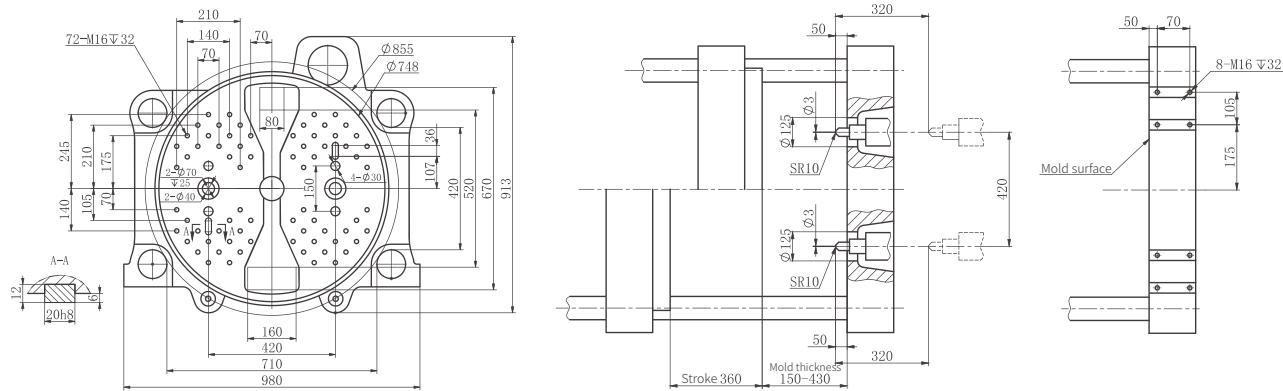
Note:

① Turntable load capacity data is based on mold thickness equal to 1/2 of maximum mold thickness. When turntable-side mold thickness exceeds 50% of maximum thickness, the load capacity decreases proportionally.

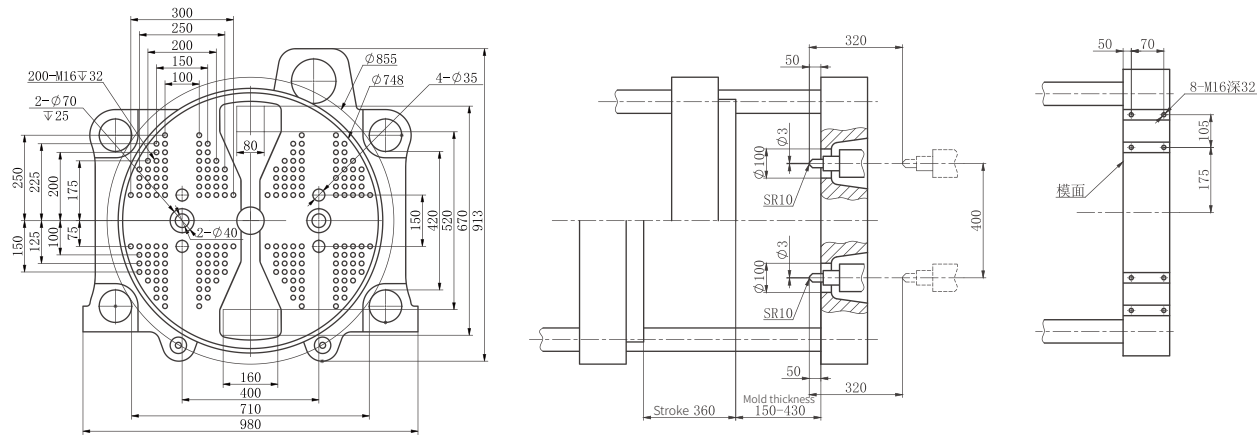
② The ejector stroke in the parameters is the effective distance of the machine's standard ejector pin protruding out of the mold surface of the turntable. The customer can install an ejector extension (UN160CG-BTP. The length of the ejector extension shall not exceed 70mm) on the ejection plate of the mold, corresponding to the location of the ejector hole to increase the actual ejector stroke.

③ The machine weight varies depending on the injection unit configuration.

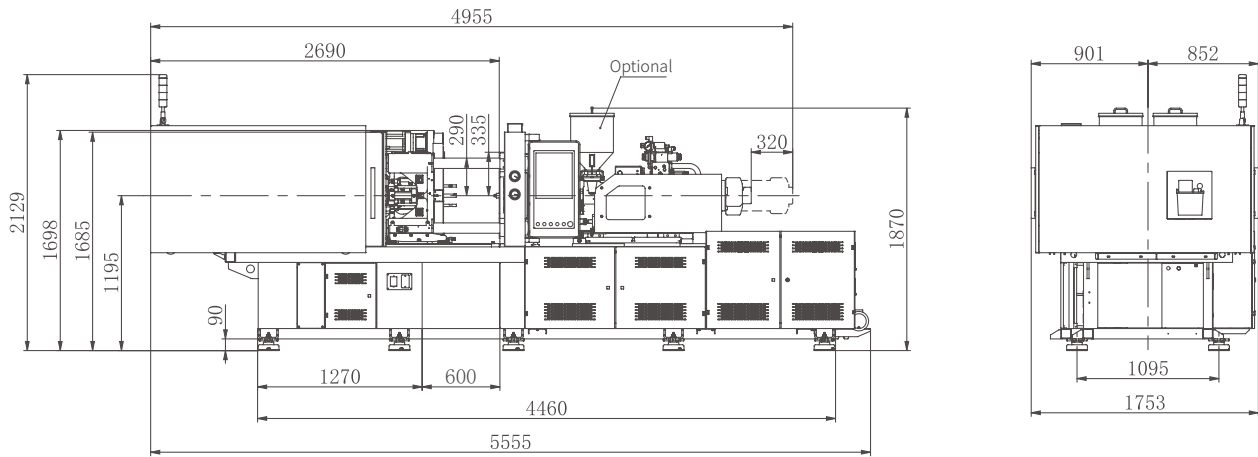
Platen Dimensions



Platen Dimensions (Optional)



Machine Dimensions



Note: The machine dimensions is measured according to the largest injection unit configuration in the specifications.

Specifications of UN200CG-BTP

DESCRIPTION		UN200CG-BTP							
INJECTION UNIT									
		The injection units mentioned above can be combined randomly.							
International specifications	UNIT	300			190			110	
		A	B	C	A	B	C	A	B
Screw diameter	mm	30	35	40	26	30	35	22	26
Screw L/D ratio	L/D	24	20	20	24	22	20	20	20
Theoretical shot volume	cm³	117	159	207	72	95	130	42	58
Shot weight(PS)	gram	107	146	191	66	88	119	38	54
Injection pressure	MPa	257	189	145	259	194	143	261	187
Max. injection speed (standard/optional)	mm/s	140/175			116/148			160/205	
Injection rate (standard)	g/s	91	124	162	57	75	103	56	78
Screw speed (standard)	rpm	274			171			204	
Screw stroke	mm	165			135			110	
CLAMPING UNIT									
Clamping force	kN	2000							
Opening stroke	mm	410							
Mold thickness	mm	180-550							
Max. turning diameter	mm	1000							
Turntable load capacity①	t	1							
Distance between centers of mold locating holes	mm	450							
Space between tie bars	mm	825x505							
Effective ejector stroke②	mm	110							
Ejector force	kN	34x2							
GENERAL									
Max. system pressure	MPa	17.5							
Motor power (standard/optional)	kW	21.4/25.2			12.4/17.8			12.4/17.8	
Heating power	kW	6.9/7.8			5.5/6.9			4.8/5.5	
Machine dimensions (L×W×H)	m	5.83x1.88x2.30							
Machine weight③	t	9.5							
Hopper capacity	kg	25							
Oil Tank capacity	L	340							

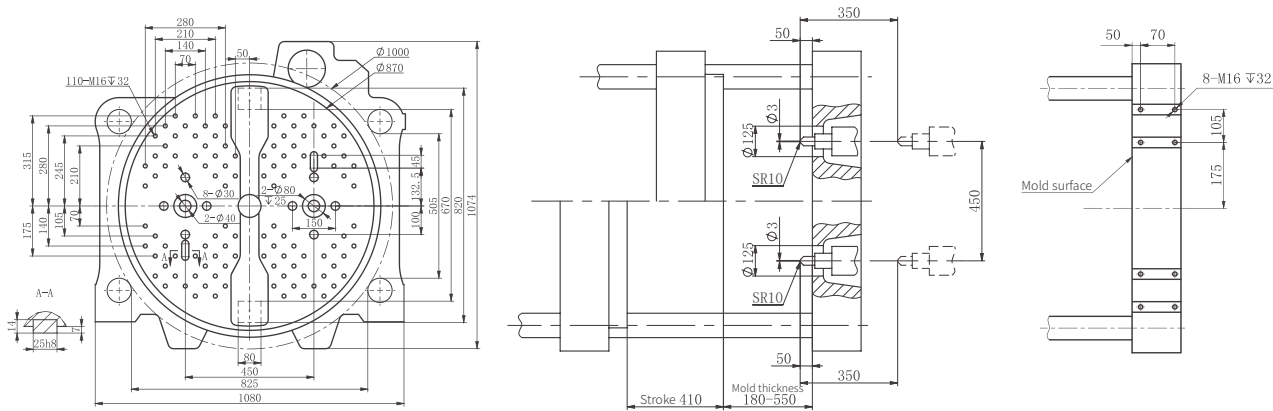
Note:

① Turntable load capacity data is based on mold thickness equal to 1/2 of maximum mold thickness. When turntable-side mold thickness exceeds 50% of maximum thickness, the load capacity decreases proportionally.

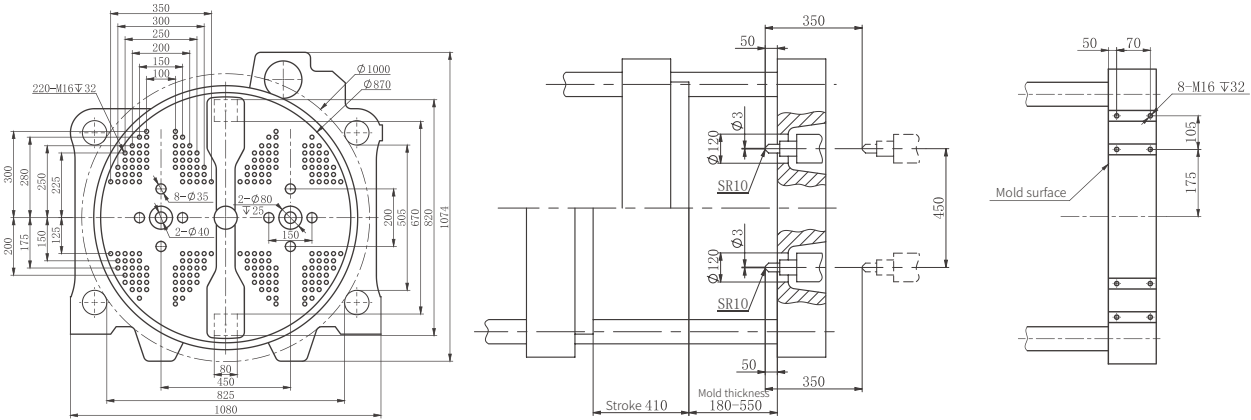
② The ejector stroke in the parameters is the effective distance of the machine's standard ejector pin protruding out of the mold surface of the turntable. The customer can install an ejector extension (UN200CG-BTP. The length of the ejector extension shall not exceed 75mm) on the ejection plate of the mold, corresponding to the location of the ejector hole to increase the actual ejector stroke.

③ The machine weight varies depending on the injection unit configuration.

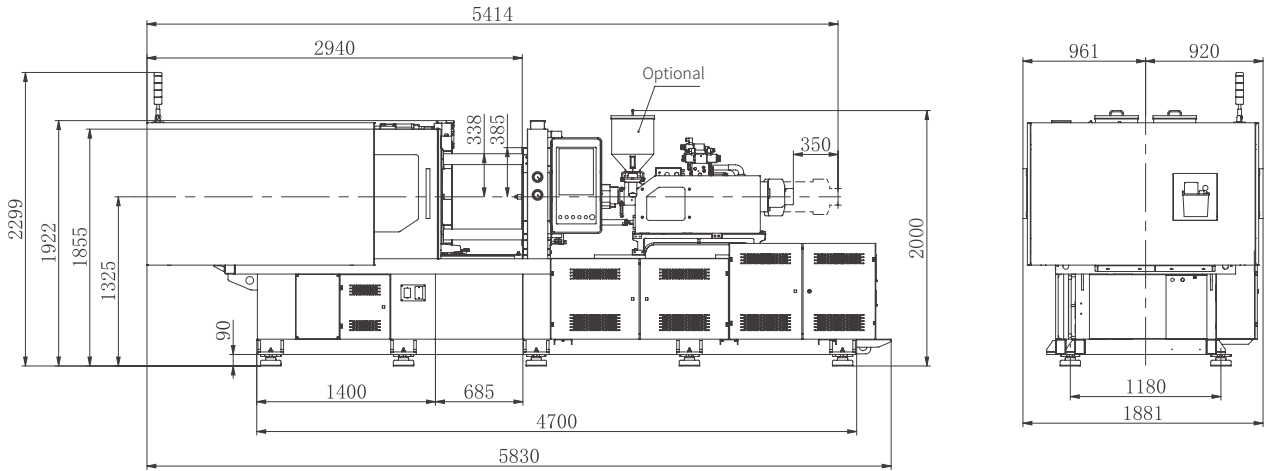
Platen Dimensions



Platen Dimensions (Optional)



Machine Dimensions



Note: The machine dimensions is measured according to the largest injection unit configuration in the specifications.

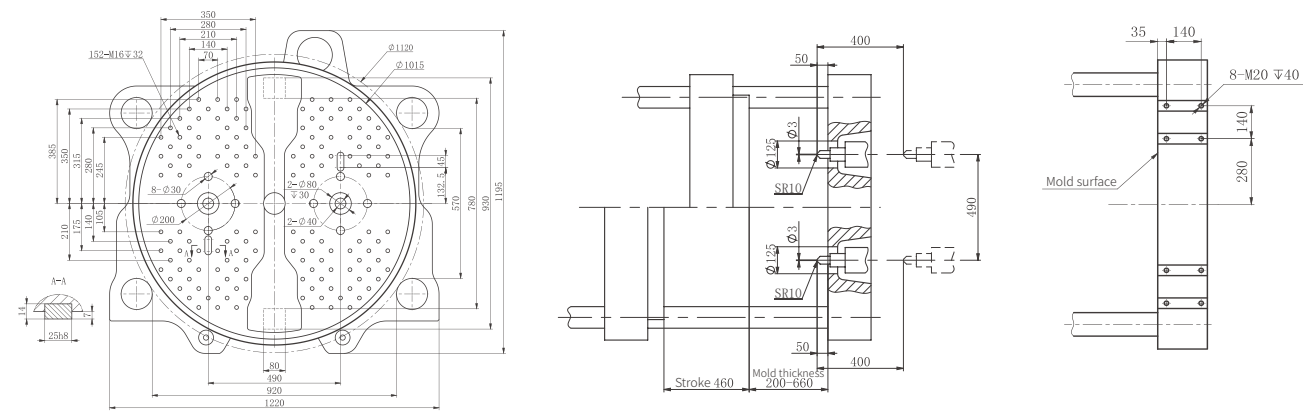
Specifications of UN260CG-BTP

UN260CG-BTP															
INJECTION UNIT															
		The injection units mentioned above can be combined randomly.													
International specifications	UNIT	630			420			300			190			110	
		A	B	C	A	B	C	A	B	C	A	B	C	A	B
Screw diameter	mm	43	48	53	35	43	48	30	35	40	26	30	35	22	26
Screw L/D ratio	L/D	22.3	20	20	24	20	20	24	20	20	24	22	20	20	20
Theoretical shot volume	cm³	298	371	452	163	247	307	117	159	207	72	95	130	42	58
Shot weight(PS)	gram	274	341	416	150	227	283	107	146	191	66	88	119	38	54
Injection pressure	MPa	213	171	140	260	172	138	257	189	145	259	194	143	261	187
Max. injection speed (standard/optional)	mm/s	103/130			102/128			112/140/175			148/186			205/256	
Injection rate (standard)	g/s	138	171	209	90	136	170	73	99	129	72	96	131	72	100
Screw speed (standard)	rpm	271			236			219			219			261	
Screw stroke	mm	205			170			165			135			110	
CLAMPING UNIT															
Clamping force	kN	2600													
Opening stroke	mm	460													
Mold thickness	mm	200-660													
Max. turning diameter	mm	1120													
Turntable load capacity①	t	1.5													
Distance between centers of mold locating holes	mm	490 (optional 500)													
Space between tie bars	mm	920x570													
Effective ejector stroke②	mm	110													
Ejector force	kN	34x2													
GENERAL															
Max. system pressure	MPa	17.5													
Motor power (standard/optional)	kW	25.2/29.3			21.4/25.2			17.8/21.4/25.2			17.8/21.4			17.8/21.4	
Heating power	kW	10.9/12.1			9/10.1			6.9/7.8			5.5/6.9			4.8/5.5	
Machine dimensions (L×W×H)	m	6.19x2.01x2.32													
Machine weight③	t	11.8													
Hopper capacity	kg	25													
Oil Tank capacity	L	400													

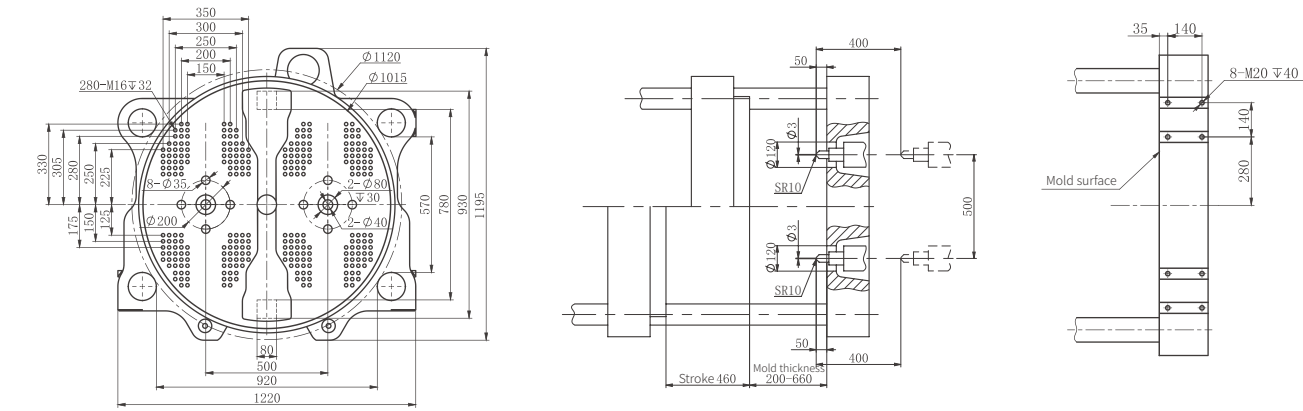
Note:

- ① Turntable load capacity data is based on mold thickness equal to 1/2 of maximum mold thickness. When turntable-side mold thickness exceeds 50% of maximum thickness, the load capacity decreases proportionally.
- ② The ejector stroke in the parameters is the effective distance of the machine's standard ejector pin protruding out of the mold surface of the turntable. The customer can install an ejector extension (UN260CG-BTP). The length of the ejector extension shall not exceed 75mm) on the ejection plate of the mold, corresponding to the location of the ejector hole to increase the actual ejector stroke.
- ③ The machine weight varies depending on the injection unit configuration.

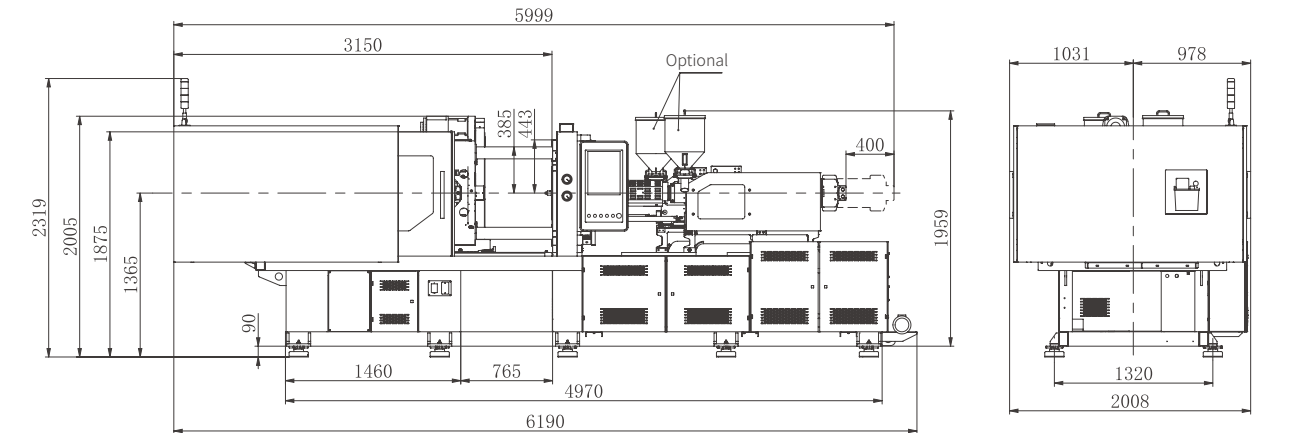
Platen Dimensions



Platen Dimensions (Optional)



Machine Dimensions



Note: The machine dimensions is measured according to the largest injection unit configuration in the specifications.

Specifications of UN280CG-BTP

DESCRIPTION		UN280CG-BTP													
INJECTION UNIT															
		The injection units mentioned above can be combined randomly.													
International specifications	UNIT	630			420			300			190			110	
		A	B	C	A	B	C	A	B	C	A	B	C	A	B
Screw diameter	mm	43	48	53	35	43	48	30	35	40	26	30	35	22	26
Screw L/D ratio	L/D	22.3	20	20	24	20	20	24	20	20	24	22	20	20	20
Theoretical shot volume	cm³	298	371	452	163	247	307	117	159	207	72	95	130	42	58
Shot weight(PS)	gram	274	341	416	150	227	283	107	146	191	66	88	119	38	54
Injection pressure	MPa	213	171	140	260	172	138	257	189	145	259	194	143	261	187
Max. injection speed (standard/optional)	mm/s	103/130/151			128/161/187			112/140/175			148/186			205/256	
Injection rate (standard)	g/s	174	216	264	113	171	213	73	99	129	72	96	131	72	100
Screw speed (standard)	rpm	271			295			219			219			261	
Screw stroke	mm	205			170			165			135			110	
CLAMPING UNIT															
Clamping force	kN	2800													
Opening stroke	mm	500													
Mold thickness	mm	200-650/750 (optional)													
Max. turning diameter	mm	1159													
Turntable load capacity①	t	1.8													
Distance between centers of mold locating holes	mm	500 (optional 490)													
Space between tie bars	mm	960×580													
Effective ejector stroke②	mm	120													
Ejector force	kN	42×2													
GENERAL															
Max. system pressure	MPa	17.5													
Motor power (standard/optional)	kW	25.2/29.3/35.2			25.2/29.3/35.2			17.8/21.4/25.2			17.8/21.4			17.8/21.4	
Heating power	kW	10.9/12.1			9/10.1			6.9/7.8			5.5/6.9			4.8/5.5	
Machine dimensions (L×W×H)	m	6.62x2.13x2.50													
Machine weight③	t	13													
Hopper capacity	kg	25													
Oil Tank capacity	L	520													

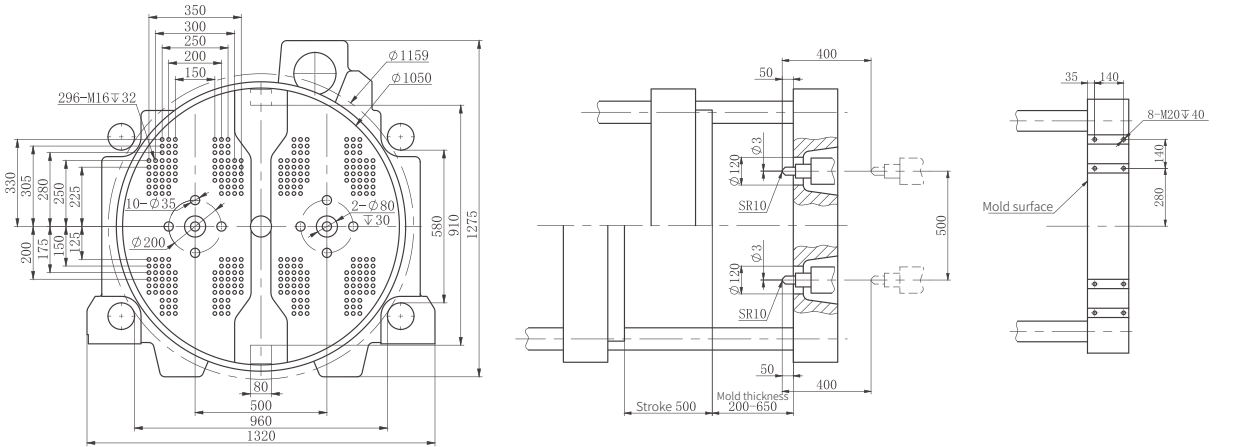
Note:

① Turntable load capacity data is based on mold thickness equal to 1/2 of maximum mold thickness. When turntable-side mold thickness exceeds 50% of maximum thickness, the load capacity decreases proportionally.

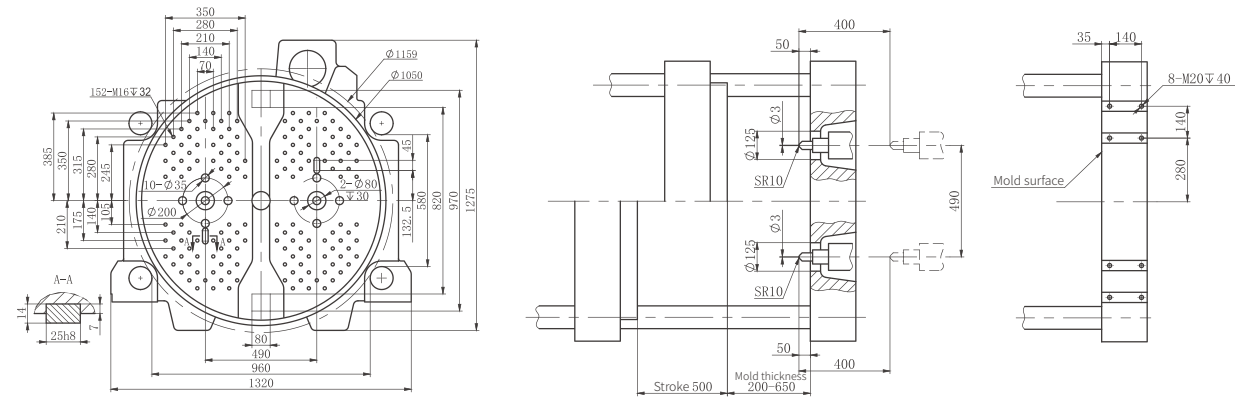
② The ejector stroke in the parameters is the effective distance of the machine's standard ejector pin protruding out of the mold surface of the turntable. The customer can install an ejector extension (UN280CG-BTP. The length of the ejector extension shall not exceed 75mm) on the ejection plate of the mold, corresponding to the location of the ejector hole to increase the actual ejector stroke.

③ The machine weight varies depending on the injection unit configuration.

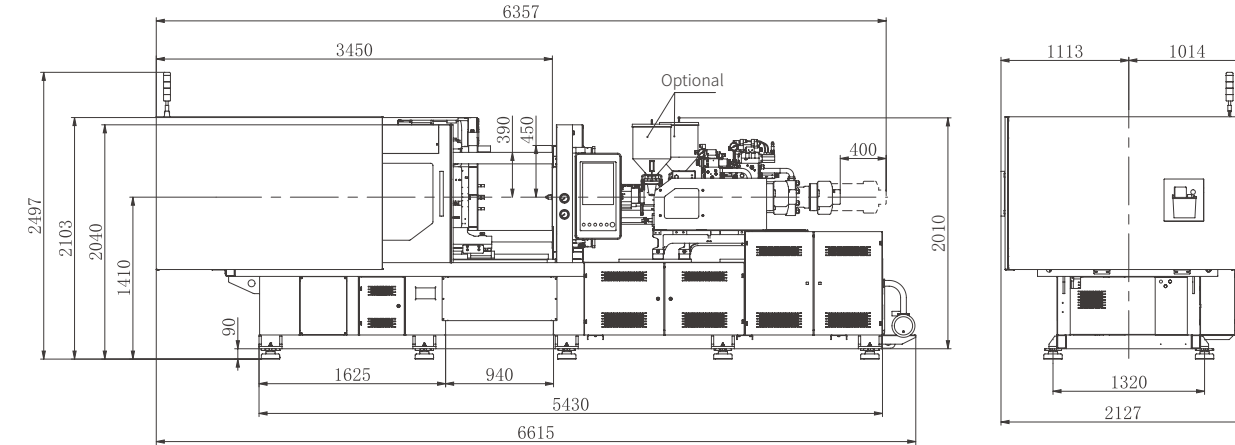
Platen Dimensions



Platen Dimensions (Optional)



Machine Dimensions



Note: The machine dimensions is measured according to the largest injection unit configuration in the specifications.

Specifications of UN360CG-BTP

DESCRIPTION		UN360CG-BTP														
INJECTION UNIT																
		The injection units mentioned above can be combined randomly.														
International specifications	UNIT	930			630			420			300			190		
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	48	53	60	43	48	53	35	43	48	30	35	40	26	30	35
Screw L/D ratio	L/D	22	20	20	22.3	20	20	24	20	20	24	20	20	24	22	20
Theoretical shot volume	cm³	425	518	664	298	371	452	163	247	307	117	159	207	72	95	130
Shot weight(PS)	gram	391	477	611	274	341	416	150	227	283	107	146	191	66	88	119
Injection pressure	MPa	220	180	140	213	171	140	260	172	138	257	189	145	259	194	143
Max. injection speed (standard/optional)	mm/s	101/118			130/151			161/187			112/140/175			148/186		
Injection rate (standard)	g/s	168	205	263	174	216	264	142	215	268	73	99	129	72	96	131
Screw speed (standard)	rpm	231			300			300			219			219		
Screw stroke	mm	235			205			170			165			135		
CLAMPING UNIT																
Clamping force	kN	3600 (optional 3800)														
Opening stroke	mm	545														
Mold thickness	mm	220-630/730 (optional)														
Max. turning diameter	mm	1240														
Turntable load capacity①	t	2.3														
Distance between centers of mold locating holes	mm	560 (optional 550)														
Space between tie bars	mm	1020x630														
Effective ejector stroke②	mm	130														
Ejector force	kN	67x2														
GENERAL																
Max. system pressure	MPa	17.5														
Motor power (standard/optional)	kW	29.3/35.2			29.3/35.2			29.3/35.2			17.8/21.4/25.2			17.8/21.4		
Heating power	kW	14.4/16.8			10.9/12.1			9/10.1			6.9/7.8			5.5/6.9		
Machine dimensions (L×W×H)	m	7.06x2.26x2.54														
Machine weight③	t	15.5														
Hopper capacity	kg	50			25			25			25			25		
Oil Tank capacity	L	450														

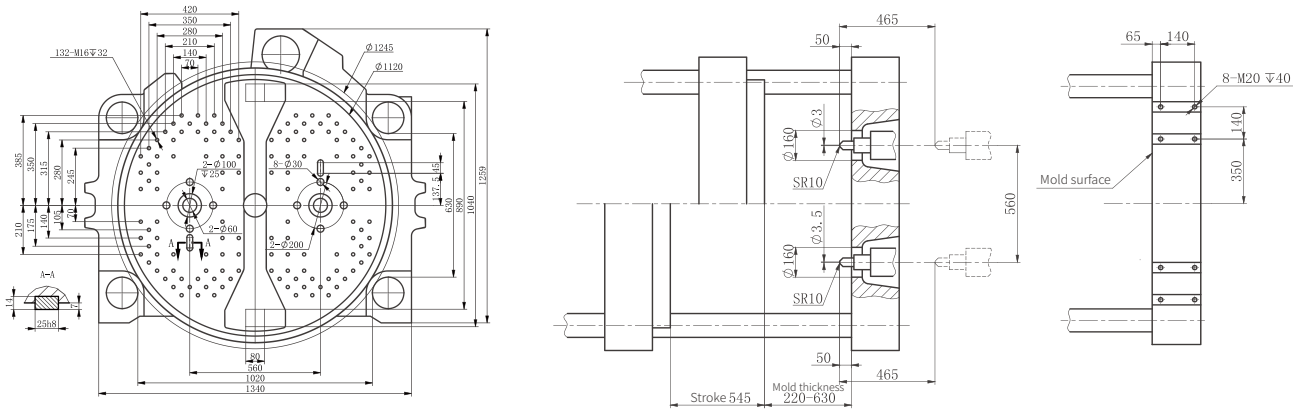
Note:

① Turntable load capacity data is based on mold thickness equal to 1/2 of maximum mold thickness. When turntable-side mold thickness exceeds 50% of maximum thickness, the load capacity decreases proportionally.

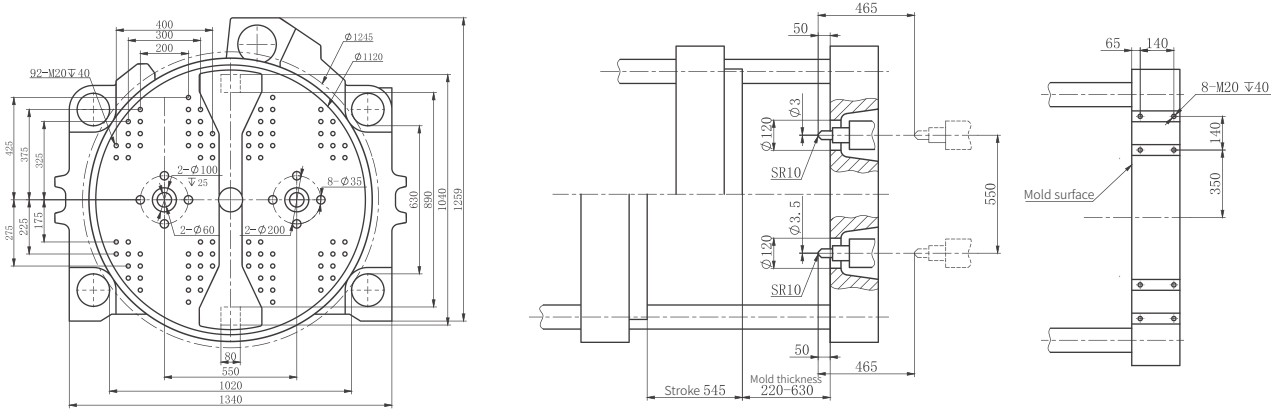
② The ejector stroke in the parameters is the effective distance of the machine's standard ejector pin protruding out of the mold surface of the turntable. The customer can install an ejector extension (UN360CG-BTP. The length of the ejector extension shall not exceed 90mm) on the ejection plate of the mold, corresponding to the location of the ejector hole to increase the actual ejector stroke.

③ The machine weight varies depending on the injection unit configuration.

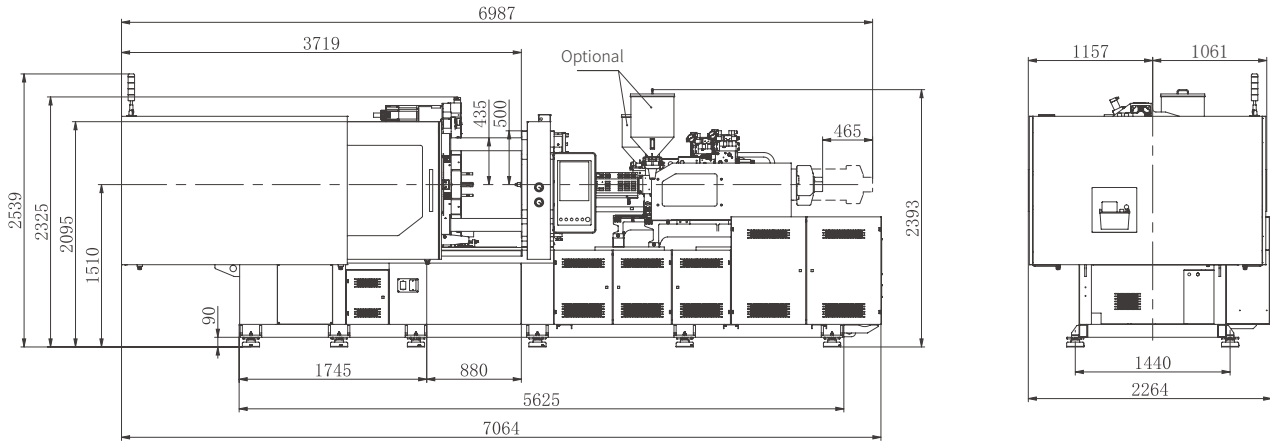
Platen Dimensions



Platen Dimensions (Optional)



Machine Dimensions



Note: The machine dimensions is measured according to the largest injection unit configuration in the specifications.

Specifications of UN400CG-BTP

DESCRIPTION		UN400CG-BTP																	
INJECTION UNIT																			
		The injection units mentioned above can be combined randomly.																	
International specifications	UNIT	1310			930			630			420			300			190		
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	53	60	68	48	53	60	43	48	53	35	43	48	30	35	40	26	30	35
Screw L/D ratio	L/D	22.6	20	20	22	20	20	22.3	20	20	24	20	20	24	20	20	24	22	20
Theoretical shot volume	cm³	584	749	962	425	518	664	298	371	452	163	247	307	117	159	207	72	95	130
Shot weight(PS)	gram	538	689	885	391	477	611	274	341	416	150	227	283	107	146	191	66	88	119
Injection pressure	MPa	237	185	144	220	180	140	213	171	140	260	172	138	257	189	145	259	194	143
Max. injection speed (standard/optional)	mm/s	111			101/118/147			130/151			161/187			112/140/175			148/186		
Injection rate (standard)	g/s	225	289	371	168	205	263	174	216	264	142	215	268	73	99	129	72	96	131
Screw speed (standard)	rpm	255			231			300			300			219			219		
Screw stroke	mm	265			235			205			170			165			135		
CLAMPING UNIT																			
Clamping force	kN	4000																	
Opening stroke	mm	600																	
Mold thickness	mm	200-700/800 (optional)																	
Max. turning diameter	mm	1310																	
Turntable load capacity①	t	2.5																	
Distance between centers of mold locating holes	mm	550 (optional 560 or 500)																	
Space between tie bars	mm	1100×630																	
Effective ejector stroke②	mm	150																	
Ejector force	kN	67×2 (optional 110×2)																	
GENERAL																			
Max. system pressure	MPa	17.5																	
Motor power (standard/optional)	kW	47.5			29.3/35.2/47.5			29.3/35.2			29.3/35.2			17.8/21.4/25.2			17.8/21.4		
Heating power	kW	16.9/19			14.4/16.8			10.9/12.1			9/10.1			6.9/7.8			5.5/6.9		
Machine dimensions (L×W×H)	m	7.90x2.33x2.61																	
Machine weight③	t	18																	
Hopper capacity	kg	50			50			25			25			25			25		
Oil Tank capacity	L	620																	

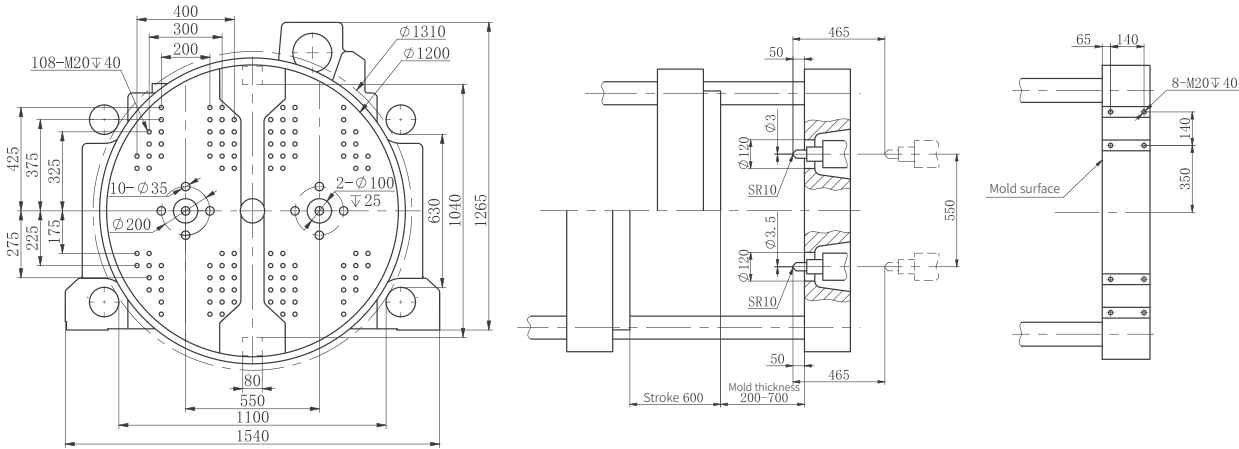
Note:

① Turntable load capacity data is based on mold thickness equal to 1/2 of maximum mold thickness. When turntable-side mold thickness exceeds 50% of maximum thickness, the load capacity decreases proportionally.

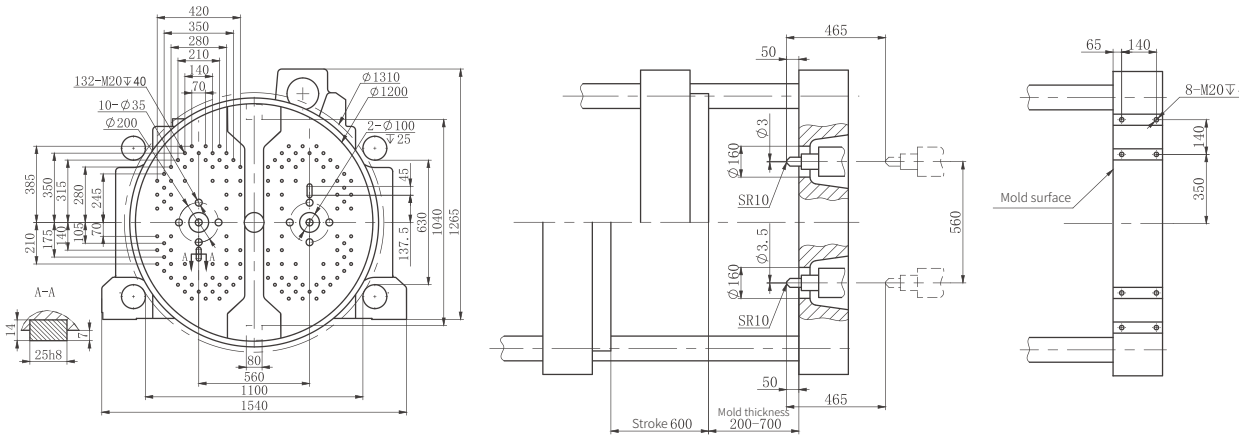
② The ejector stroke in the parameters is the effective distance of the machine's standard ejector pin protruding out of the mold surface of the turntable. The customer can install an ejector extension (UN400CG-BTP. The length of the ejector extension shall not exceed 90mm) on the ejection plate of the mold, corresponding to the location of the ejector hole to increase the actual ejector stroke.

③ The machine weight varies depending on the injection unit configuration.

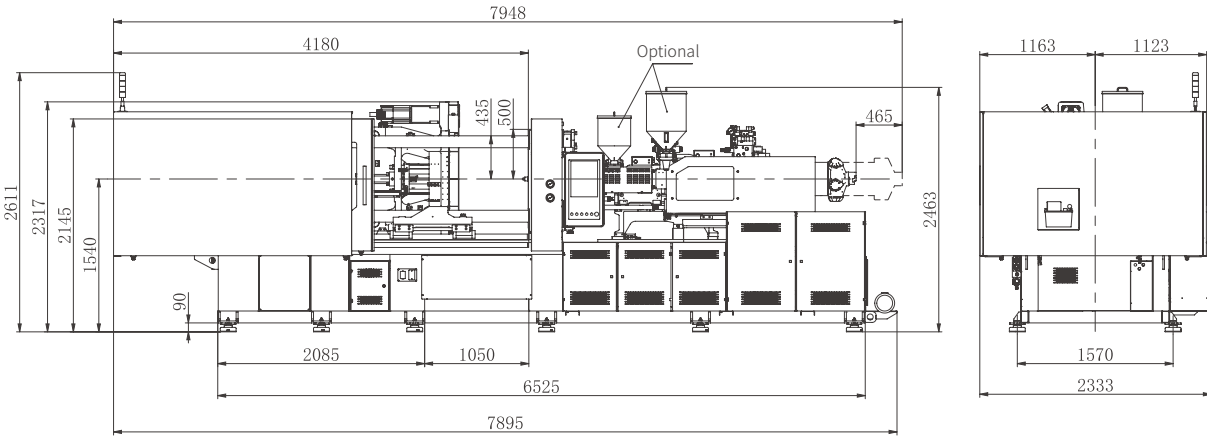
Platen Dimensions



Platen Dimensions (Optional)



Machine Dimensions



Note: The machine dimensions is measured according to the largest injection unit configuration in the specifications.

Specifications of UN550CG-BTP

DESCRIPTION		UN550CG-BTP																	
INJECTION UNIT																			
		The injection units mentioned above can be combined randomly.																	
International specifications	UNIT	1870			1310			930			630			420			300		
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	60	68	76	53	60	68	48	53	60	43	48	53	35	43	48	30	35	40
Screw L/D ratio	L/D	22.6	20	20	22.6	20	20	22	20	20	22.3	20	20	24	20	20	24	20	20
Theoretical shot volume	cm³	834	1071	1338	584	749	962	425	518	664	298	371	452	163	247	307	117	159	207
Shot weight(PS)	gram	767	985	1231	538	689	885	391	477	611	274	341	416	150	227	283	107	146	191
Injection pressure	MPa	225	175	140	237	185	144	220	180	140	213	171	140	260	172	138	257	189	145
Max. injection speed (standard/optional)	mm/s	92			111			118/147			103/130/151			102/128/161			140/175		
Injection rate (standard)	g/s	239	307	384	225	289	371	196	239	307	138	171	209	90	136	170	91	124	162
Screw speed (standard)	rpm	204			255			269			271			236			274		
Screw stroke	mm	295			265			235			205			170			165		
CLAMPING UNIT																			
Clamping force	kN	5500																	
Opening stroke	mm	600																	
Mold thickness	mm	320-800/900 (optional)																	
Max. turning diameter	mm	1420																	
Turntable load capacity①	t	3.5																	
Distance between centers of mold locating holes	mm	630(Non-adjustable: 550/650, Adjustable: 550/630/650 for option)																	
Space between tie bars	mm	1170x700																	
Effective ejector stroke②	mm	150																	
Ejector force	kN	110x2																	
GENERAL																			
Max. system pressure	MPa	17.5																	
Motor power (standard/optional)	kW	47.5			47.5			35.2/47.5			25.2/29.3/35.2			21.4/25.2/29.3			21.4/25.2		
Heating power	kW	22.2/24.6			16.6/19			14.4/16.8			10.9/12.1			9/10.1			6.9/7.8		
Machine dimensions (LxWxH)	m	8.68x2.45x2.47																	
Machine weight③	t	29.3																	
Hopper capacity	kg	50			50			50			25			25			25		
Oil Tank capacity	L	660																	

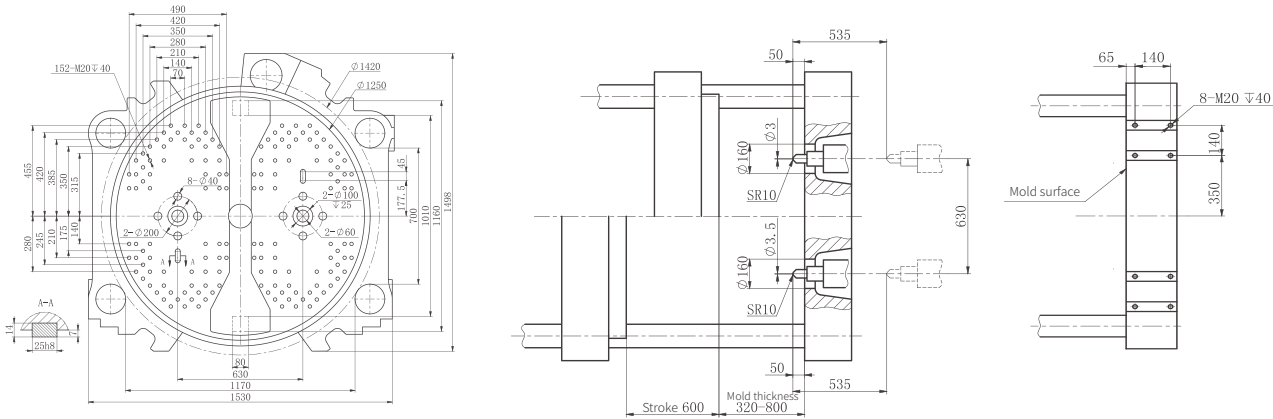
Note:

① Turntable load capacity data is based on mold thickness equal to 1/2 of maximum mold thickness. When turntable-side mold thickness exceeds 50% of maximum thick-ness, the load capacity decreases proportionally.

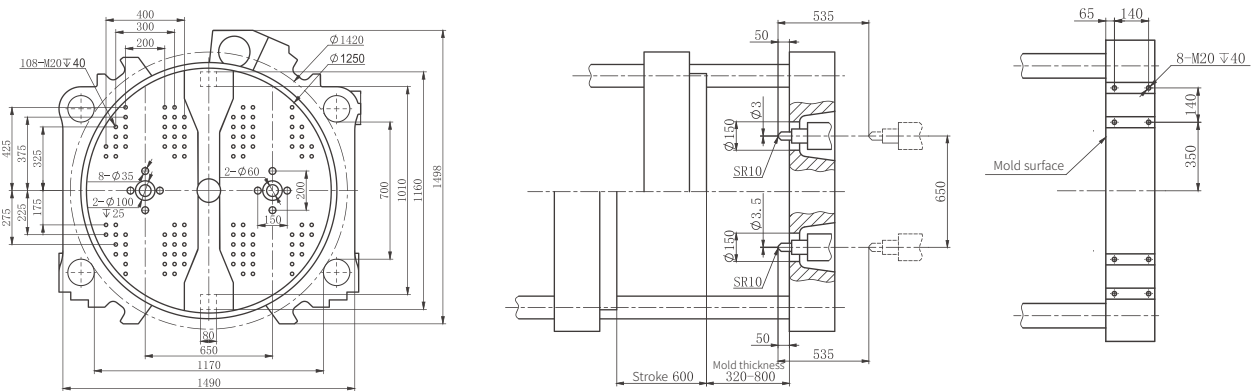
② The ejector stroke in the parameters is the effective distance of the machine's standard ejector pin protruding out of the mold surface of the turntable. The customer can install an ejector extension (UN550CG-BTP. The length of the ejector extension shall not exceed 90mm) on the ejection plate of the mold, corresponding to the location of the ejector hole to increase the actual ejector stroke.

③ The machine weight varies depending on the injection unit configuration.

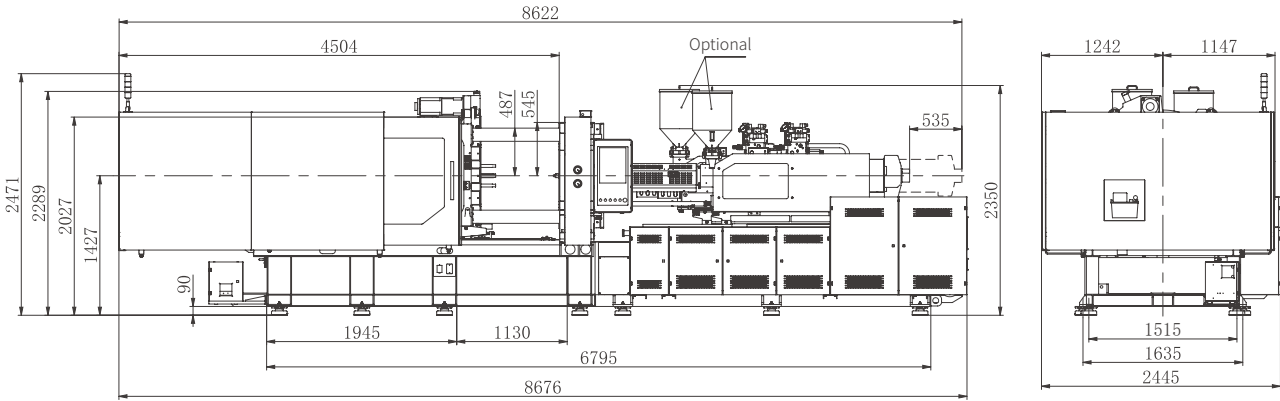
Platen Dimensions



Platen Dimensions (Optional)



Machine Dimensions



Note: The machine dimensions is measured according to the largest injection unit configuration in the specifications.

Specifications of UN750CG-BTP

DESCRIPTION		UN750CG-BTP														
INJECTION UNIT																
		The injection units mentioned above can be combined randomly.														
International specifications	UNIT	1870			1310			930			630			420		
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	60	68	76	53	60	68	48	53	60	43	48	53	35	43	48
Screw L/D ratio	L/D	22.6	20	20	22.6	20	20	22	20	20	22.3	20	20	24	20	20
Theoretical shot volume	cm³	834	1071	1338	584	749	962	425	518	664	298	371	452	163	247	307
Shot weight(PS)	gram	767	985	1231	538	689	885	391	477	611	274	341	416	150	227	283
Injection pressure	MPa	225	175	140	237	185	144	220	180	140	213	171	140	260	172	138
Max. injection speed (standard/optional)	mm/s	92			111			118/147			103/130/151			128/161/187		
Injection rate (standard)	g/s	239	307	384	225	289	371	196	239	307	138	171	209	113	171	213
Screw speed (standard)	rpm	204			255			269			271			295		
Screw stroke	mm	295			265			235			205			170		
CLAMPING UNIT																
Clamping force	kN	7500														
Opening stroke	mm	900														
Mold thickness	mm	500-1000/1100 (optional)														
Max. turning diameter	mm	1550														
Turntable load capacity①	t	5														
Distance between centers of mold locating holes	mm	550/630/650/710														
Space between tie bars	mm	1260×790														
Effective ejector stroke②	mm	150														
Ejector force	kN	110×2														
GENERAL																
Max. system pressure	MPa	17.5														
Motor power (standard/optional)	kW	47.5			47.5			35.2/47.5			25.2/29.3/35.2			25.2/29.3/35.2		
Heating power	kW	22.2/24.6			16.6/19			14.4/16.8			10.9/12.1			9/10.1		
Machine dimensions (L×W×H)	m	10.10x2.64x2.53														
Machine weight③	t	34.5														
Hopper capacity	kg	50			50			50			25			25		
Oil Tank capacity	L	780														

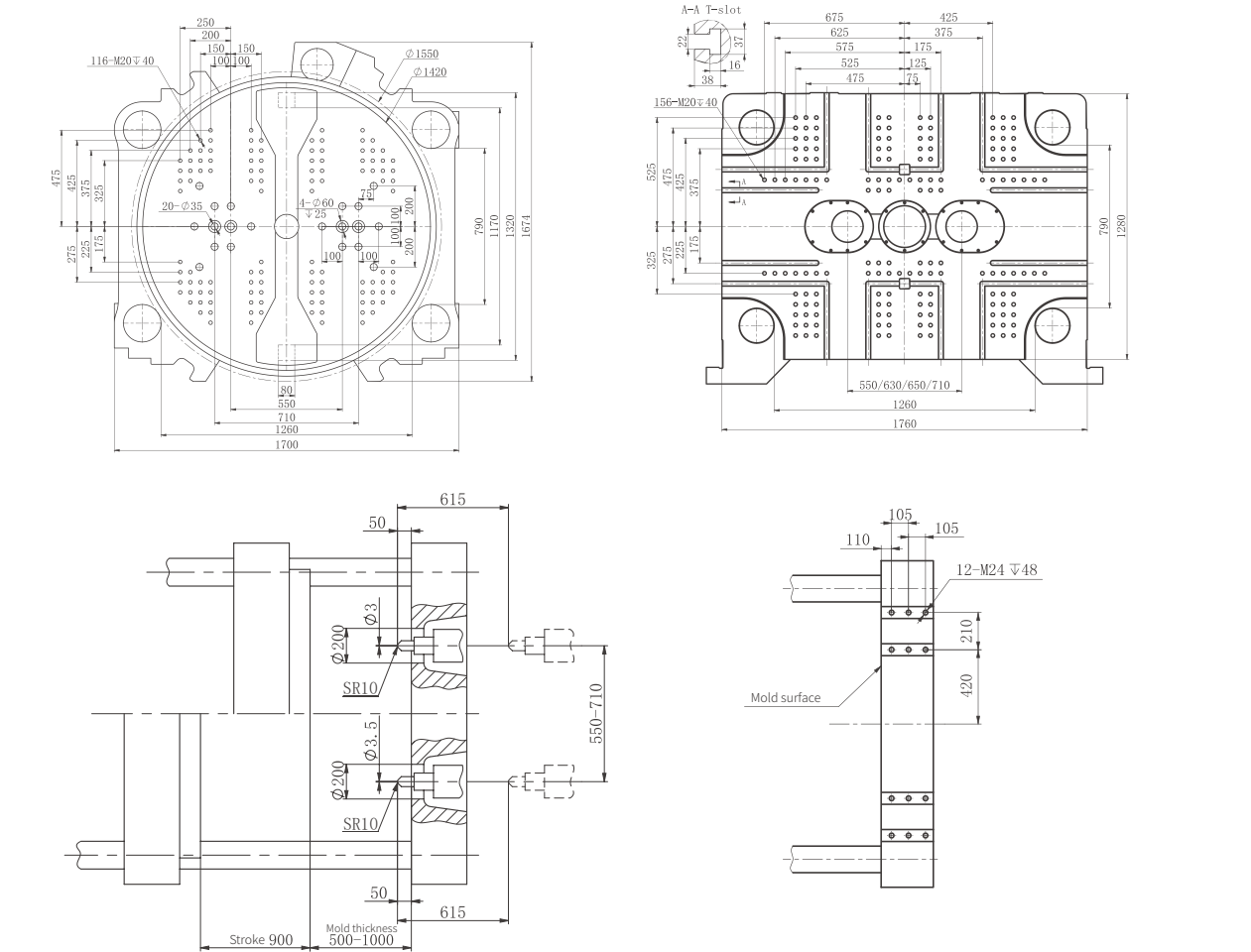
Note:

① Turntable load capacity data is based on mold thickness equal to 1/2 of maximum mold thickness. When turntable-side mold thickness exceeds 50% of maximum thickness, the load capacity decreases proportionally.

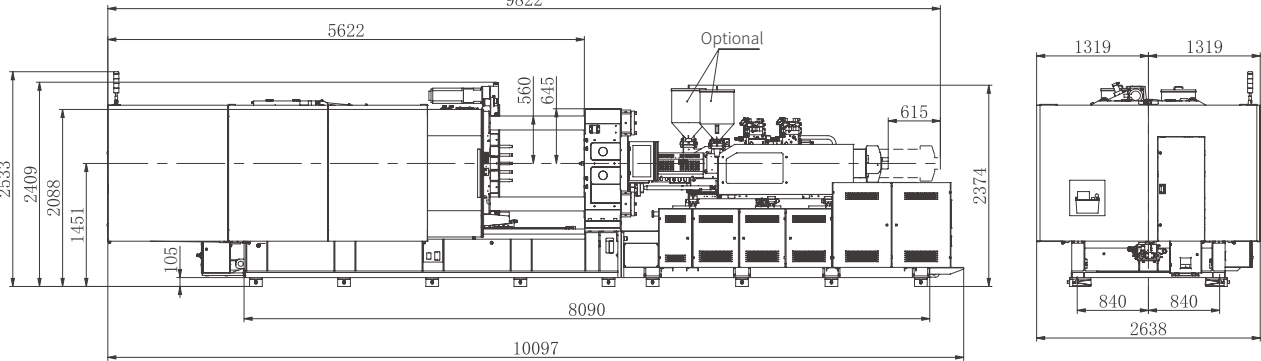
② The ejector stroke in the parameters is the effective distance of the machine's standard ejector pin protruding out of the mold surface of the turntable. The customer can install an ejector extension (UN750CG-BTP. The length of the ejector extension shall not exceed 100mm) on the ejection plate of the mold, corresponding to the location of the ejector hole to increase the actual ejector stroke.

③ The machine weight varies depending on the injection unit configuration.

Platen Dimensions



Machine Dimensions



Note: The machine dimensions is measured according to the largest injection unit configuration in the specifications.

Specifications of UN750CG-BTP PLUS

DESCRIPTION		UN750CG-BTP PLUS														
INJECTION UNIT																
		The injection units mentioned above can be combined randomly.														
International specifications	UNIT	1870			1310			930			630			420		
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	60	68	76	53	60	68	48	53	60	43	48	53	35	43	48
Screw L/D ratio	L/D	22.6	20	20	22.6	20	20	22	20	20	22.3	20	20	24	20	20
Theoretical shot volume	cm³	834	1071	1338	584	749	962	425	518	664	298	371	452	163	247	307
Shot weight(PS)	gram	767	985	1231	538	689	885	391	477	611	274	341	416	150	227	283
Injection pressure	MPa	225	175	140	237	185	144	220	180	140	213	171	140	260	172	138
Max. injection speed (standard/optional)	mm/s	92			111			118/147			103/130/151			128/161/187		
Injection rate (standard)	g/s	239	307	384	225	289	371	196	239	307	138	171	209	113	171	213
Screw speed (standard)	rpm	204			255			269			271			295		
Screw stroke	mm	295			265			235			205			170		
CLAMPING UNIT																
Clamping force	kN	7500 (optional 8000)														
Opening stroke	mm	900														
Mold thickness	mm	500-1000/1100 (optional)														
Max. turning diameter	mm	1706														
Turntable load capacity①	t	6														
Distance between centers of mold locating holes	mm	550/630/650/710														
Space between tie bars	mm	1300×1000														
Effective ejector stroke②	mm	150														
Ejector force	kN	110×2														
GENERAL																
Max. system pressure	MPa	17.5														
Motor power (standard/optional)	kW	47.5			47.5			35.2/47.5			25.2/29.3/35.2			25.2/29.3/35.2		
Heating power	kW	22.2/24.6			16.6/19			14.4/16.8			10.9/12.1			9/10.1		
Machine dimensions (L×W×H)	m	10.10x2.68x2.71														
Machine weight③	t	36														
Hopper capacity	kg	50			50			50			25			25		
Oil Tank capacity	L	780														

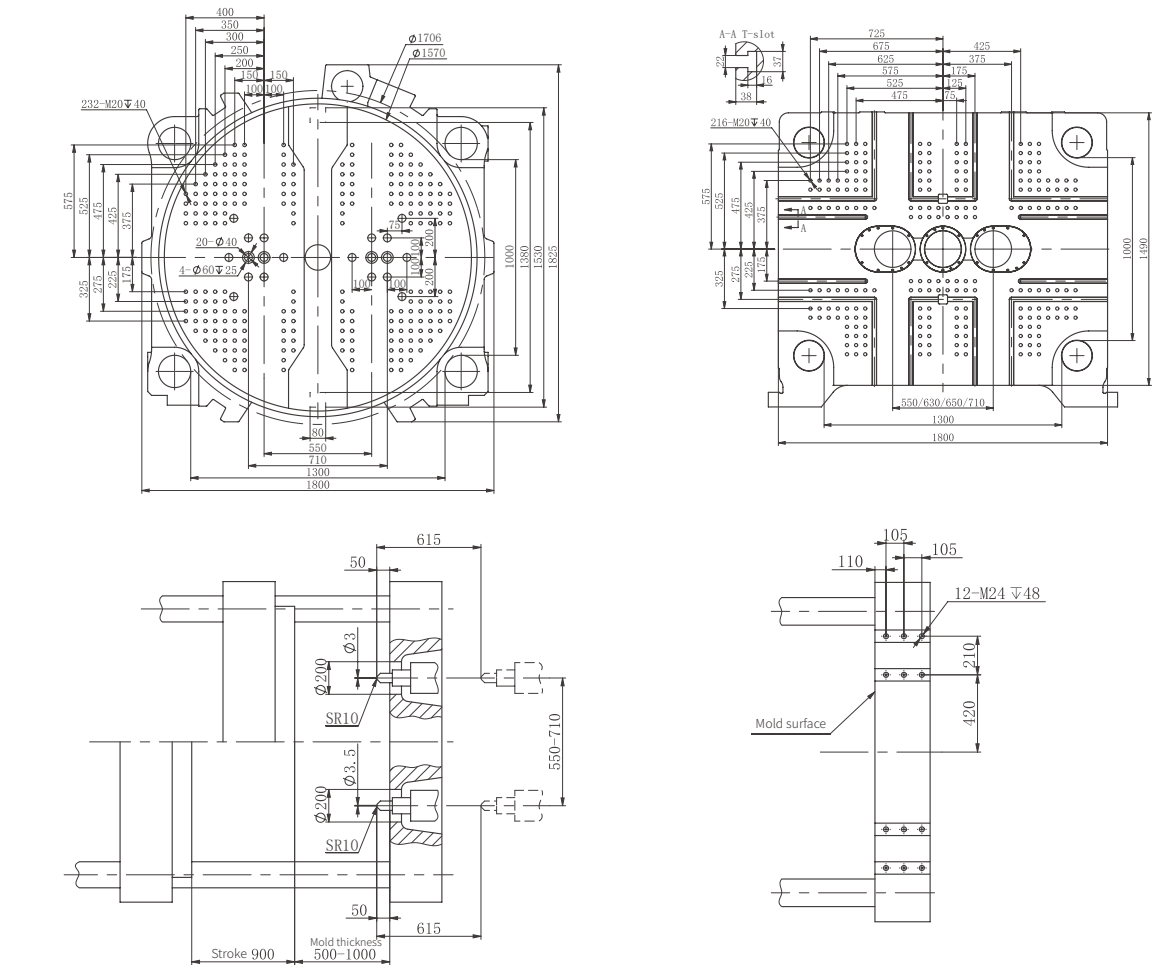
Note:

① Turntable load capacity data is based on mold thickness equal to 1/2 of maximum mold thickness. When turntable-side mold thickness exceeds 50% of maximum thickness, the load capacity decreases proportionally.

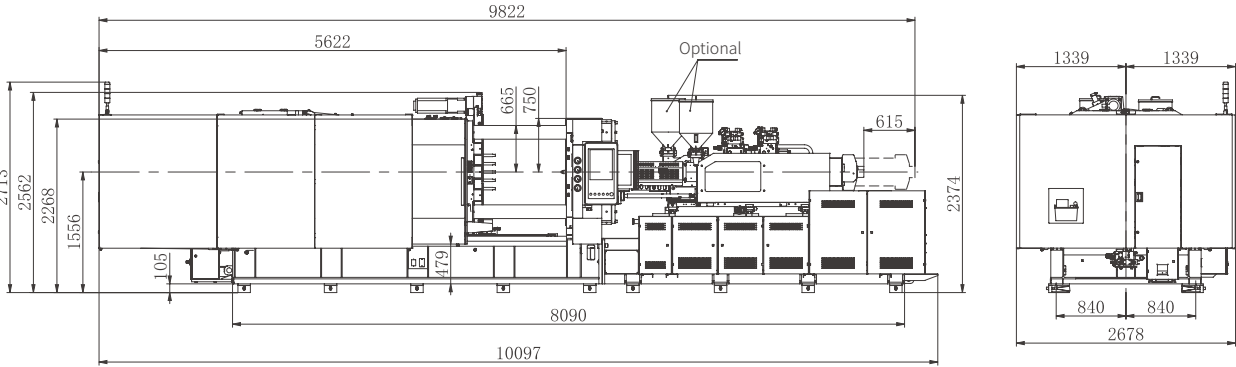
② The ejector stroke in the parameters is the effective distance of the machine's standard ejector pin protruding out of the mold surface of the turntable. The customer can install an ejector extension (UN750CG-BTP PLUS. The length of the ejector extension shall not exceed 100mm) on the ejection plate of the mold, corresponding to the location of the ejector hole to increase the actual ejector stroke.

③ The machine weight varies depending on the injection unit configuration.

Platen Dimensions



Machine Dimensions



Note: The machine dimensions is measured according to the largest injection unit configuration in the specifications.

Specifications of UN800CG-BTP

※This model is specially designed for the laptop computer industry.

DESCRIPTION		UN800CG-BTP					
INJECTION UNIT							
		Combination 1					
International specifications	UNIT	630			420		
		A	B	C	A	B	C
Screw diameter	mm	43	48	53	35	43	48
Screw L/D ratio	L/D	22.3	20	20	24	20	20
Theoretical shot volume	cm³	298	371	452	163	247	307
Shot weight(PS)	gram	274	341	416	150	227	283
Injection pressure	MPa	213	171	140	260	172	138
Max. injection speed (standard/optional)	mm/s	236			234		
Injection rate (standard)	g/s	315	393	479	207	312	389
Screw speed (standard)	rpm	300			300		
Screw stroke	mm	205			170		
CLAMPING UNIT							
Clamping force	kN	8000					
Opening stroke	mm	900					
Mold thickness	mm	500-1000					
Max. turning diameter	mm	1550					
Turntable load capacity①	t	5					
Distance between centers of mold locating holes	mm	650					
Space between tie bars	mm	1260×790					
Effective ejector stroke②	mm	150					
Ejector force	kN	110×2					
GENERAL							
Max. system pressure	MPa	17.5					
Motor power (standard/optional)	kW	58.6			47.5		
Heating power	kW	10.9/12.1			9/10.1		
Machine dimensions (L×W×H)	m	10.10x2.64x2.53					
Machine weight③	t	34.5					
Hopper capacity	kg	25			25		
Oil Tank capacity	L	780					

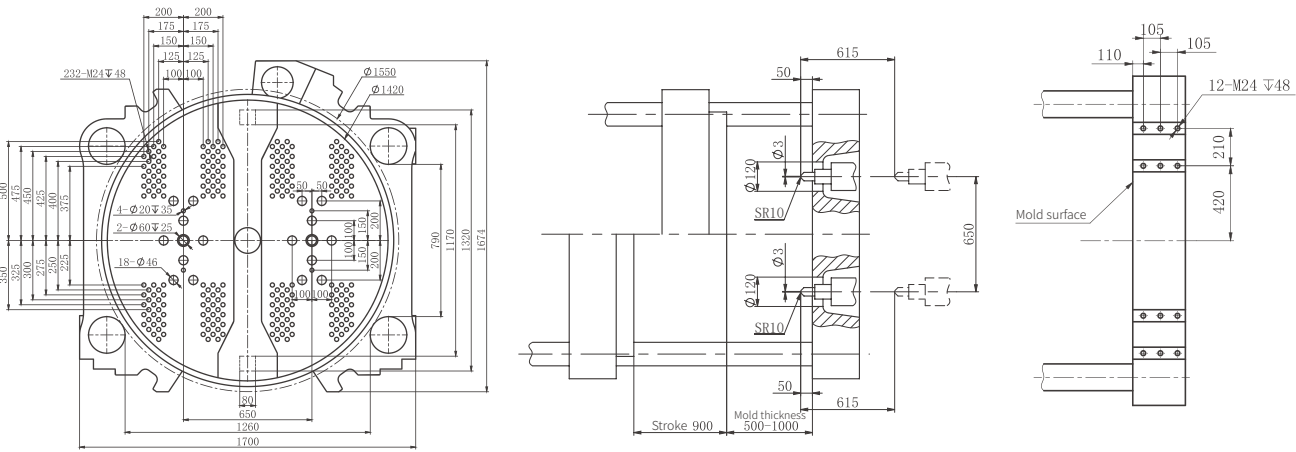
Note:

① Turntable load capacity data is based on mold thickness equal to 1/2 of maximum mold thickness. When turntable-side mold thickness exceeds 50% of maximum thickness, the load capacity decreases proportionally.

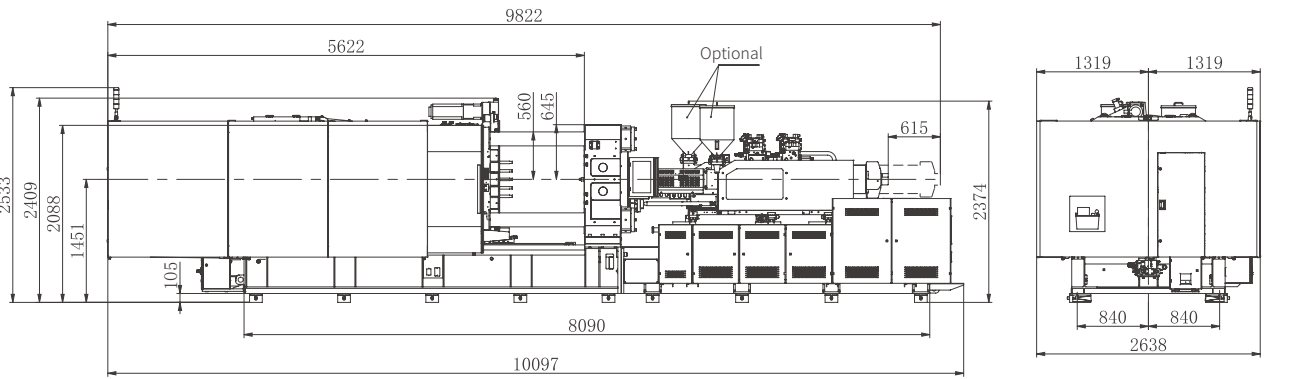
② The ejector stroke in the parameters is the effective distance of the machine's standard ejector pin protruding out of the mold surface of the turntable. The customer can install an ejector extension (UN800CG-BTP. The length of the ejector extension shall not exceed 100mm) on the ejection plate of the mold, corresponding to the location of the ejector hole to increase the actual ejector stroke.

③ The machine weight varies depending on the injection unit configuration.

Platen Dimensions

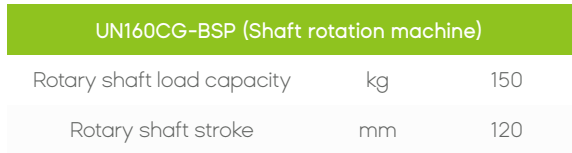


Machine Dimensions



Note: The machine dimensions is measured according to the largest injection unit configuration in the specifications.

UN160CG-BSP (Shaft rotation machine)



UN160CG-BTSP (Integrated turntable rotary shaft machine)		
Rotary shaft load capacity	kg	150
Rotary shaft stroke	mm	120

UN200CG-BSP (Shaft rotation machine)		
Rotary shaft load capacity	kg	150
Rotary shaft stroke	mm	130

UN200CG-BTSP (Integrated turntable rotary shaft machine)		
Rotary shaft load capacity	kg	150
Rotary shaft stroke	mm	130

Hybrid machine CG-BTP-E

※Note: An electrical injection unit is available for the CG-BTP platform as an option.

Highlights of hybrid machines:

Equipped with hydraulically controlled mold clamping and electrically controlled injection units (including injection and plasticizing), the hybrid machine delivers high injection speed and high injection pressure, effectively reducing energy consumption while achieving precision injection. Considering the overall investment cost and optimized performance, this machine is your best choice in the field of precision molding.

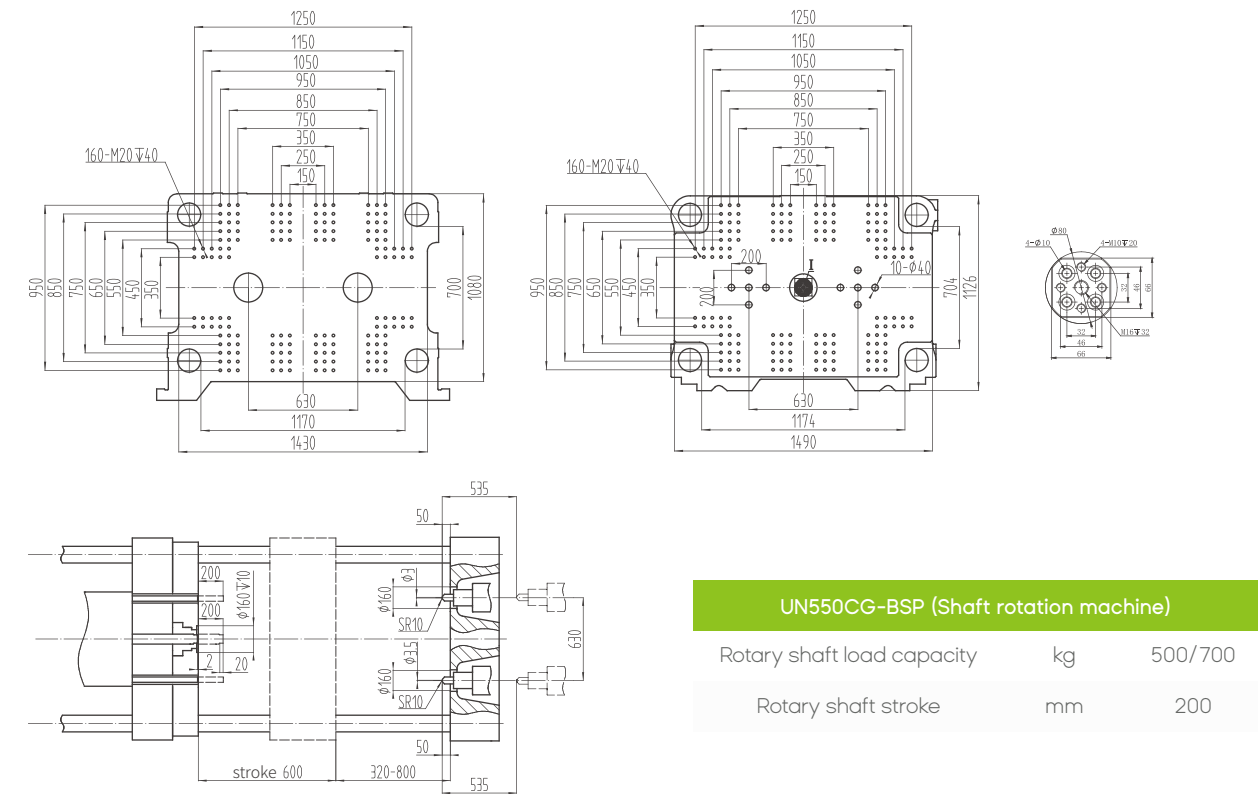


Electric injection unit configuration

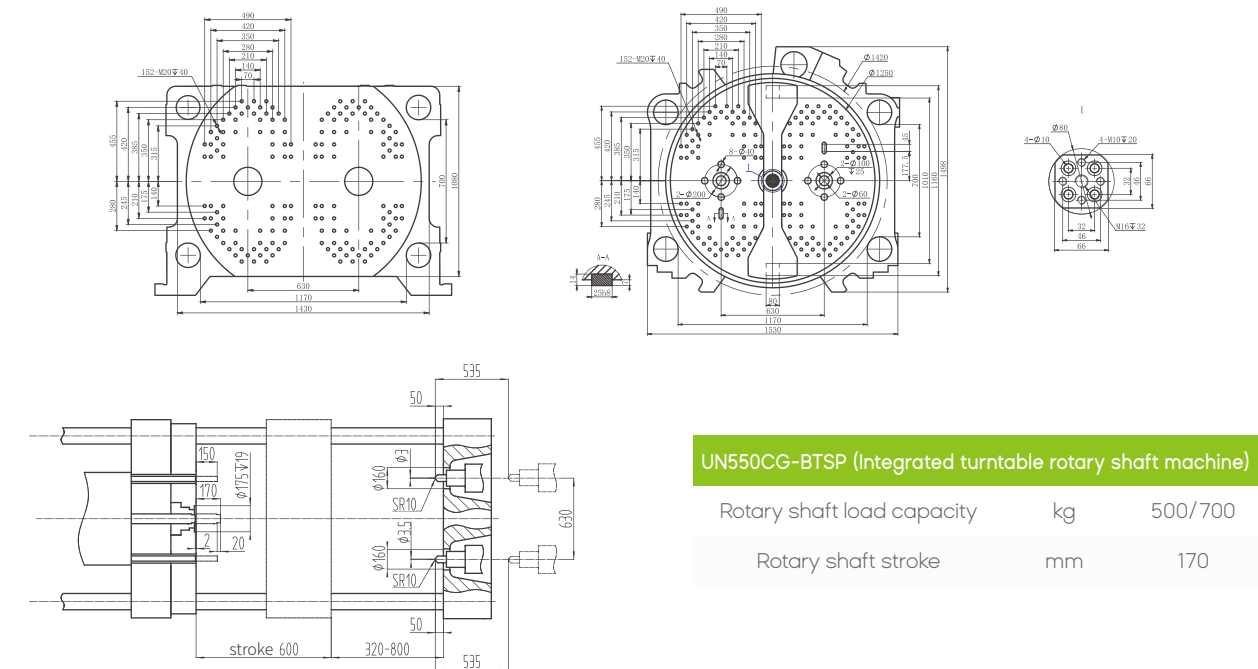
Parallel injection unit		INJECTION UNIT							
Specifications	UNIT	80	170	200	320	430	670	930	1350
Screw diameter	mm	19/22/26	22/26/30	26/30/35	30/35/40	35/40/43	40/48/53	48/53/60	53/60/68
UN160CG-BTP-E	iA								
	iB								
UN200CG-BTP-E	iA								
	iB								
UN260CG-BTP-E	iA								
	iB								
UN280CG-BTP-E	iA								
	iB								
UN360CG-BTP-E	iA								
	iB								
UN400CG-BTP-E	iA								
	iB								
UN550CG-BTP-E	iA								
	iB								
UN750CG-BTP-E	iA								
	iB								
UN800CG-BTP-E	iA								
	iB								

Note: (1) In the table above, the boxes in green represent the injection units available for each machine model. The range of selection for injection unit A and B is the same.
(2) Injection unit not available as an option can be specially engineered according to actual needs.
(3) Other CG-P platforms can select parallel electric injection units to fulfill the actual needs of products
(4) As to the specification of L independent injection unit, please refer to FF series.

UN550CG-BSP (Shaft rotation machine)



UN550CG-BTSP (Integrated turntable rotary shaft machine)

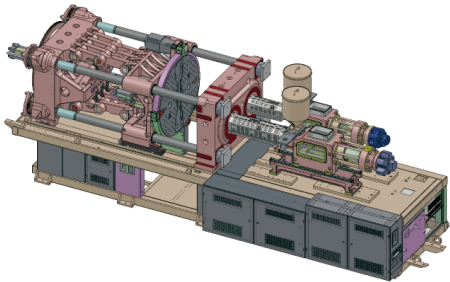


Diversified combinations of modular injection units

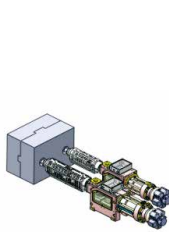
P series

IMM: CG-BTP series
Combinations: BTP/V, BTP/L, BTP/V/V, BTP/L/V

※ Note: As to the specification of L/V independent injection unit, please refer to single-color injection molding machine.

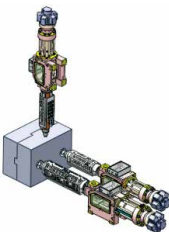


CG-BTP series



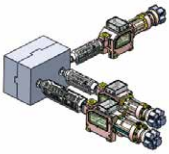
P

Two parallel injection units



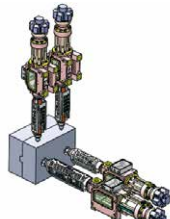
P/V

Two parallel injection units + V-type injection unit at the top of fixed platen



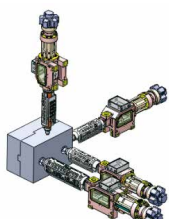
P/L

Two parallel injection unit + L-type injection unit at back door side



P/V/V

Two parallel injection units + two V-type injection units at the top of fixed platen



P/L/V

Two parallel injection units +V-type injection unit at the top of fixed platen + L-type injection unit at back door side

Hydraulic injection unit configuration

Parallel injection unit	INJECTION UNIT											
Specifications	UNIT	70	110	190	300	420	630	930	1310	1870	3100	3500
Screw diameter	mm	19/22	22/26	26/30/35	30/35/40	35/43/48	43/48/53	48/53/60	53/60/68	60/68/76	60/68/76	68/76/84
UN160CG-BTP	iA											
	iB											
UN200CG-BTP	iA											
	iB											
UN260CG-BTP	iA											
	iB											
UN280CG-BTP	iA											
	iB											
UN360CG-BTP	iA											
	iB											
UN400CG-BTP	iA											
	iB											
UN550CG-BTP	iA											
	iB											
UN750CG-BTP	iA											
	iB											
UN800CG-BTP	iA											
	iB											

Note: (1) In the table above, the boxes in green represent the injection units available for each machine model. The range of selection for injection unit A and B is the same.
(2) Injection unit not available as an option can be specially engineered according to actual needs.

Standard and Optional Features

Note: "●": standard "○": optional

DESCRIPTION	Standard	Optional
CLAMPING UNIT		
High-rigidity platen with balanced force (BFC technology)	●	
Electrical servo turntable	●	
Magnetically levitated turntable (MLT technology, 160T-260T)	●	
MicoDistancePopup technology (MDP, 280-800T)	●	
Turntable water manifold (160T/200T: 1 set; 260-550T: 2 sets; 750T/800T: 4 sets with 2 in each set)	●	
Euromap 18 robot mounting hole (on the top of fixed platen)	●	
Mechanical / electrical safety devices	●	
Adjustment free mechanical safety lock	●	
Automatic centralized lubrication system	●	
Low-pressure mold protection	●	
One-button automatic mold height adjustment	●	
Platen parallelism adjustment	●	
Safety edges for machine gates	●	
Wear-resistant manganese steel supporting tracks for movable platen	●	
Safety foot plate (for 750T machine and larger models)	●	
Electric safety door		○
Hydraulic circuit control of double ejectors		○
10-pin electrical connector for turntable		○
Multiple sets of air blow		○
Euromap 2 mold mounting hole		○
Magnetic platen		○
Mold thermal insulation		○
Low-inertia injection drive mechanism	●	
Combination of multiple modular injection units	●	
Energy-saving groove design of barrel (patented design)	●	
Nozzle and multi-stage PID temperature control	●	
Screw cold start prevention	●	
Automatic purging	●	
Movable or rolling hopper device	●	
Screw speed detection	●	
Enclosed insulation barrel blanket	●	
Nozzle purge guard	●	
Linear guide rail for carriage	●	
Manual centralized lubrication for injection unit	●	
High-mixing non-stick screw		○
Three-component and multi-component injection molding		○
Barrel unit for TPE		○
Barrel unit for TPU		○
Barrel unit for PC		○
Special or adjustable mold locating hole center distance		○
Feed port temperature detection		○
Ceramic heater band		○
Infrared heater band		○
Nano thermal insulation function		○
Injection unit for silicone		○
Electric injection unit		○
Gas assisted injection		○
Transducer for carriage position measurement		○
Spring nozzle		○
Extended nozzle		○
HYDRAULIC SYSTEM		
Servo pump system	●	
Low noise energy-saving hydraulic circuit	●	
High-precision real-time bypass oil filter	●	
Imported branded hydraulic valve	●	
Imported branded hydraulic seal	●	
Differential fast mold closing device (160T/200T)	●	

DESCRIPTION	Standard	Optional
Safety retention device for exposed HP hydraulic hose	●	
CNC plasticizing back pressure	●	
Hydraulic oil temperature detection	●	
Mold opening with proportional valve control (260T-800T)	●	
Injection with proportional valve control		○
High-response servo injection system with accumulator		○
Larger plasticizing motor		○
Independent hydraulic sequential valve		○
Pneumatic sequential valve		○
Hydraulic core-pull on movable platen (or fixed platen)		○
Hydraulic oil level detection		○
Oil preheating		○
Self-sealing suction filter		○
Synchronous control (mold opening parallel to plasticizing/ejection/ core pull)		○
Stronger power		○
CONTROL SYSTEM		
Turntable digital closed-loop positioning control(DCPC technology)	●	
Turntable protection against power outage	●	
Non-return-to-zero turntable	●	
Smart mold-open deceleration	●	
Logic control of multiple injection units	●	
Compulsory barrel heating protection	●	
Automatic heat preservation and heating presetting	●	
Data upload and download via USB	●	
Rat-proof electric wire	●	
Multi-level software password authentication for data protection	●	
Interlock for turntable and safety door	●	
Protection against over-high oil temperature	●	
Emergency stop of front and rear safety doors	●	
PDP interface	●	
Statistical process control (SPC)	●	
Selectable suck-back before or after plasticizing	●	
Switchover from injection to holding controlled by time, position, time + position or pressure	●	
Process parameter modification history	●	
Synchronous injection signal	●	
Multiple operating languages	●	
15" TFT true color LED HD display	●	
Triple-color alarm light	●	
Power socket for auxiliary equipment (3 sets of 380V AC sockets, 1 set of 220V AC socket)	●	
Electrical protection of nozzle purge guard		○
Euromap 12 plug for robot		○
Euromap 67 plug for robot		○
Core pull and ejector setting in controller		○
Integrated hot runner control		○
Air-assisted injection device		○
Display of machine energy consumption statistics		○
Central (networking) monitoring system		○
Protective light grid of safety gates		○
Changing power supply voltage		○
GENERAL		
Operation manual	●	
Leveling pad	●	
A tool kit and a precise filter element	●	
Mold mounting screw	●	
Stainless steel hopper		○
Mold clamp		○
Auto loader		○
Glass tube flowmeter		○
Dryer		○

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