

WE WALK ALONGSIDE THE WORLD  
Stock Code: 300415

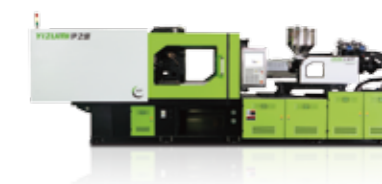
Designed by Yizumi, March 2021

**YIZUMI**伊之密



## High-end Multi-component Injection Molding Machine

Stability + Customization



### 广东伊之密精密注压科技有限公司

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





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## YIZUMI is committed to be a technologically leading supplier of the best cost-effective solution.

Founded in Guangdong, China in 2002, Guangdong Yizumi Precision Machinery Co., Ltd. is a ChiNext-listed company focusing on the fields of polymer molding and metal forming. The company involves in design, R&D, manufacture, sale and service of injection molding machines, die casting machines, rubber injection machines, high-speed packaging systems and automated robotic systems.

Yizumi mainly produces injection molding machine, die casting machine, high speed packaging machine, mold and robot. Also, Yizumi owns many technical services centres and over 40 global distributors, business covers over 70 countries and regions. It has established production bases at home and abroad covering an area of nearly 400,000 square metres, and has over 2,700 employees globally.

In China, Yizumi successively set up three major manufacturing bases in Gaoli, Wusha and Suzhou to comprehensively upgrade its productive capacity. In 2017, Yizumi built manufacturing bases in India and the United States. In addition, Yizumi has established technology service centers, R&D centers and a sales network, implementing the globalized operations strategy.

# C Make Life More Colorful

C Series Multi-component Injection Molding Machine

Yizumi C 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.



We Walk  
Alongside The  
World



Widely used in different industries:



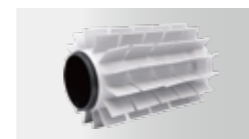
3C products



Auto parts



Daily necessities



Household appliance accessories



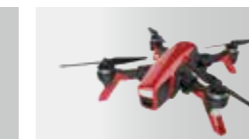
Protective layers of tools



Packaging



Medical products



Toys



Laptop accessories



Triple-color cup

# C-P series parallel injection molding machine

## ➤ 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 shoes 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 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.

### 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.

### 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 advanced turntable control technology

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

### 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 user-friendly interface

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

※Data above come from Yizumi lab, available for reference.  
Pictures and descriptions of this catalogue takes UN260C-BTP as an example, technology specification is applicable for C-P series machines of all tonnage.

## Clamping unit



### ① 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.

### ② Magnetically levitated turntable technology

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

### ③ Digital closed-loop positioning control technology

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

### ④ Tilt proof sliding shoes design

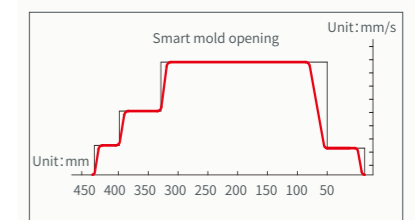
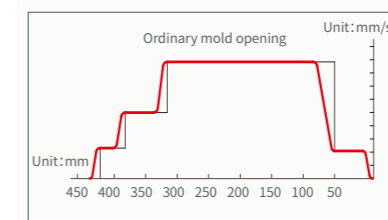
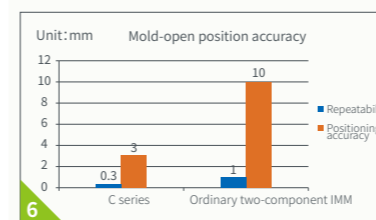
- The sliding shoes of movable platen, which are designed based on the needs of guiding and supporting the centre of gravity, can effectively increase the movement steadiness and prolong the mold life.

### ⑤ Optional 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.

### ⑥ 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.



### 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.

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

Pictures and descriptions of this catalogue takes UN220C-NTW as an example, technology specification is applicable for C-W series machines of all tonnage.

# Injection Unit

## ① 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.

## ③ Excellent injection accuracy

- Part weight repeatability is up to 3 %.

## ⑤ Modular injection unit combination

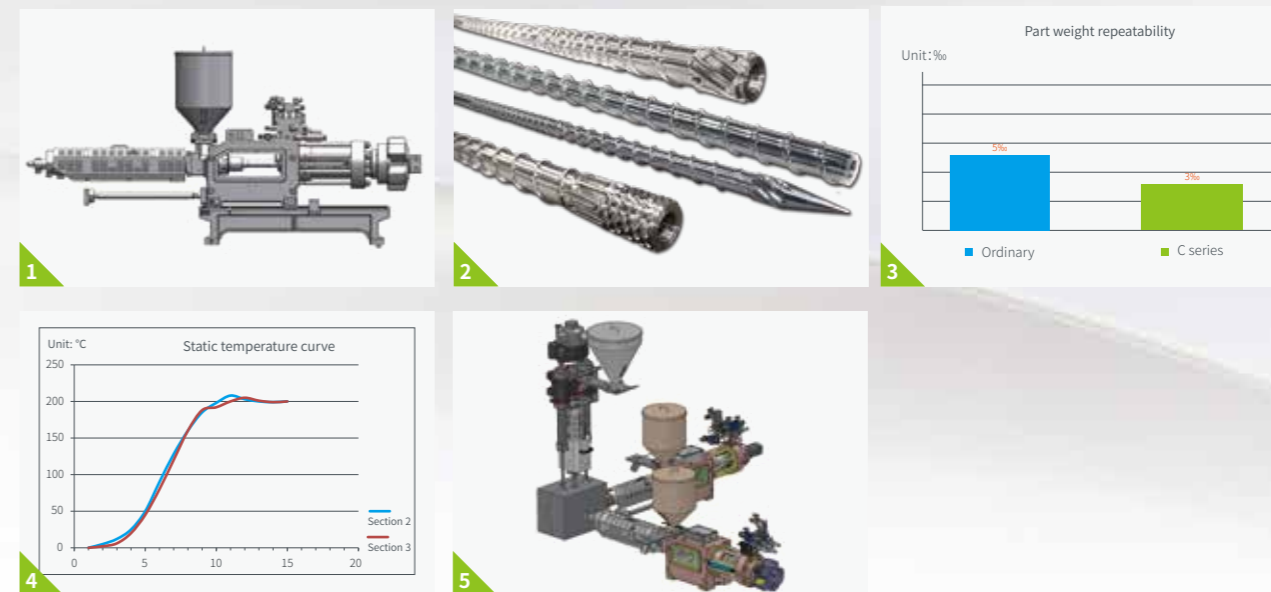
- Customization is available through the flexible combination of injection units according to different processes requirements and flexible software functions.

## ② High-performance anti-sticking mixing screw design

- The screw not only ensures efficient plasticizing, but it is also optimally designed for the best mixing effect without material sticking, yellowing and blackening.

## ④ New-generation PID temperature control

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



※Data above come from Yizumi lab, available for reference.  
Pictures and descriptions of this catalogue takes UN220C-NTW as an example, technology specification is applicable for C-W series machines of all tonnage.

## 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%.

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



# Control system

Powerful, responsive, user-friendly HMI

The powerful and responsive industrial controller for multi-component injection molding machine can accurately and synchronously control several injection units, and exchange data with turntable by synchronous communication in real time to achieve turntable accurate positioning. Humanization design of user interface and button upgrades the comfort and convenience of operation.

- Standard MIRLE industrial controller, ►
- optional KEBA. ►



Interface of dedicated industrial controller ▲

## ① Responsive

- Synchronous control by double CPUs and separate subroutines make program execution more efficient and ensure the computing time of every movement of the injection unit is limited to 1ms.

## ② Accurate

- The turntable positioning is more accurate with the use of synchronous communication technology and servo closed-loop positioning technology.
- Static temperature control accuracy is up to ±0.4 degrees centigrade with the adoption of new PID control technology.

## ③ Accurate

- Remote on-line monitoring of production
- Unlimited parameter storage through USB
- Statistical process control (SPC) for multiple injection units
- Multi-level user access and data protection
- Setup and tracking of key movement curves
- Early deceleration and positioning control of movements
- Up to 128-zone built-in hot runner control extension
- Integrated control of auxiliary equipment

## User-friendly design

- The ergonomic rotary controller cabinet, foolproof design and clear, simple operating interface make the operation of system more comfortable and convenient.

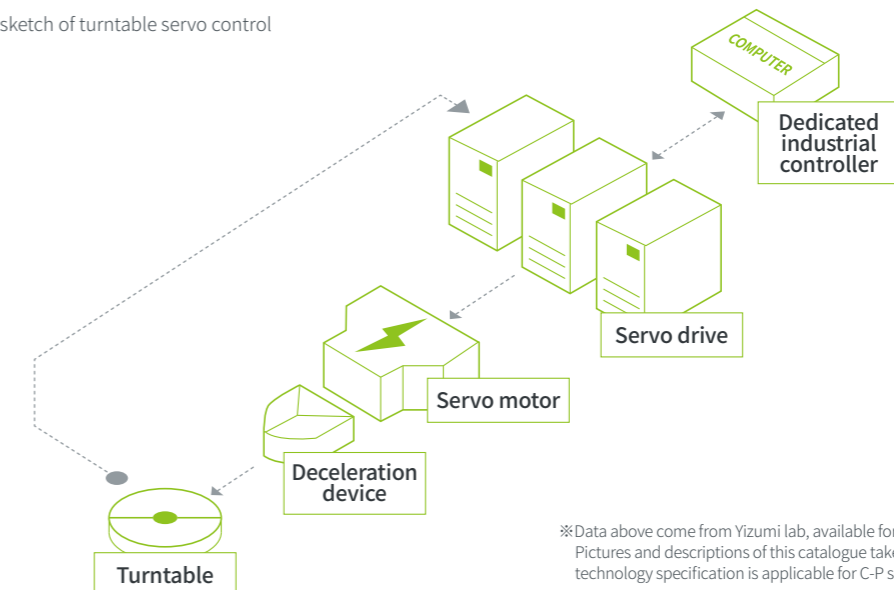
- ① Ergonomic rotary controller cabinet ►
- ② Convenient power socket for auxiliary equipment ►



## Turtable servo control principle

- The electric turntable servo control system consists of the industrial controller for multi-component injection molding machine, servo drive, servo motor, deceleration device, high-resolution accuracy inspection device and turntable. The controller offers the control plan to the servo drive which then performs closed-loop positioning control. The turntable has smooth movements and accurate positioning.

▼ Diagrammatic sketch of turntable servo control



※Data above come from Yizumi lab, available for reference. Pictures and descriptions of this catalogue takes UN260C-BTP as an example, technology specification is applicable for C-P series machines of all tonnage.

# 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 adopt 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 adopt 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 computer 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 Independent V injection unit
- ② Independent electric injection unit
- ③ Independent L injection unit
- ④ Independent computer
- ⑤ Adjustable handwheel of independent 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 core-pull function (for hydraulic injection unit)

The core-pull 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.



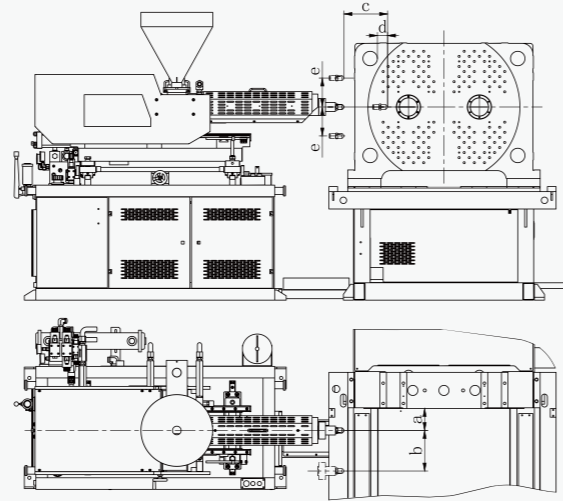
# L/V Independent Injection Unit

# Independent Electrical Injection Unit



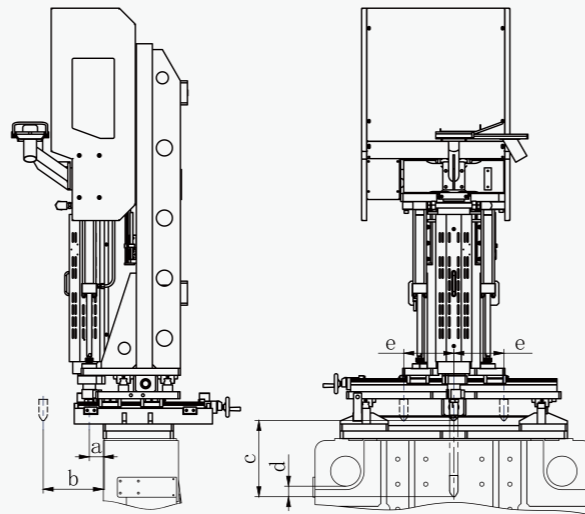
## L-type injection unit configuration

Specifications	a/mm	b/mm	c/mm	d/mm	e/mm
IU190L	70	Standard 100 Optional 300 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.	260-550C-BTP:350	260C-BTP:70	±5
IU295L	80			750C-BTP:500	
IU420L	80		1000-1600C-NTP:500	550C-BTP:80	
IU604L	80			750C-BTP:80	
IU895L	110			1000C-NTP:100	
IU1269L	110			1400C-NTP:100	
IU1885L	120		1600C-NTP:100		



## V-type injection unit configuration

Specifications	a/mm	b/mm	c/mm	d/mm	e/mm
IU190V	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.	260-750C-BTP:350	260-750C-BTP、	±5
IU295V	80			1000C-NTP:350	
IU420V	80		1400-1600NTP:450		
IU604V	80				
IU895V	95				



### Independent modular design

Due to modular design, electrical injection unit can combining 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.

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



▲ Independent L-type Electrical Injection Unit



▲ Independent V-type Electrical Injection Unit

### Compact design for easy storage

- Injection, plasticizing and carriage are under all-electric control. With compact design, electrical injection unit is easy for storage.

### All servo-motor driven

- High injection repeatability accuracy, rapid response and stable molding

### Flexible combination

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

### Optional base rotation

- To provide more space for mold replacement and maintenance through base rotation, and meet the process requirement for across molding by rotating 180°.

### Clean and environmentally friendly

- All-electric control is more clean and low consuming of energy than hydraulic control, especially suitable for the highly required production environment.

### Strong compatibility

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

## Specifications of the independent electrical injection unit

Description	UNIT	EIU2-50				EIU3-140				EIU4-350				EIU2-50HS				EIU2-140HS				EIU2-350HS			
International specifications		50				140				350				50				140				350			
<b>INJECTION UNIT</b>																									
Screw Diameter	mm	19	22	26	22	26	30	35	30	35	40	48	19	22	26	22	26	30	35	30	35	40	48		
Screw L/D Ratio	L/D	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
Theoretical shot volume	cm <sup>3</sup>	21.3	28.5	39.8	38.0	53.1	70.7	96.2	99.0	134.7	175.9	253.3	21.3	28.5	39.8	38.0	53.1	70.7	96.2	99.0	134.7	175.9	253.3		
Shot weight (PS)	gram	20	26	37	35	49	65	89	91	124	162	233	20	26	37	35	49	65	89	91	124	162	233		
Injection pressure	MPa	250	186	134	250	266	200	147	250	260	200	139	250	186	134	372	266	200	147	250	260	200	139		
Injection speed	mm/s	150				120				120				250				240				200			
Injection rate	g/s	43	57	80	46	64	85	115	85	115	151	217	71	95	133	91	127	170	231	141	192	251	362		
Screw speed	r/min	0~400				0~400				0~300				0~500				0~400				0~300			
Screw Stroke	mm	75				100				140				75				100				140			
Nozzle contact force	kN	20				30				35				20				30				35			
<b>POWER UNIT</b>																									
Injection Servo motor	kW	3×2				4×2				5.5×2				4×2				5.5×2				7.5×2			
Plasticizing Servo motor	kW	5.5				7.5				7.5				5.5				7.5				7.5			
Carriage deceleration motor	kW	0.75				0.75				0.75				0.75				0.75				0.75			
Heating capacity	kW	3.5	4.5	5.5	5.5	5.5	6	7	6	7	8	10	3.5	4	5.5	4	5.2	6	7	6	7	8	10		
Number of temperature control zones		4				4				4				4				4				4			

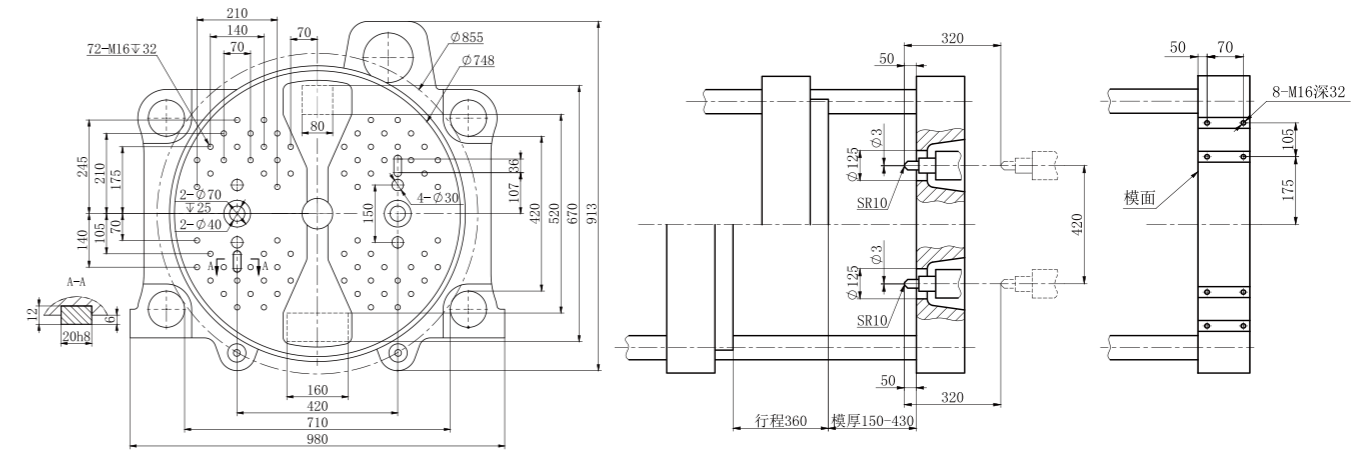
※Data above come from Yizumi lab, available for reference.  
The product pictures and description in the above pages are only for illustration.  
The effect of the real product (including but not limited to appearance, color and size) may be slightly different. Please refer to the real machine.

# UN160C-BTP Specification

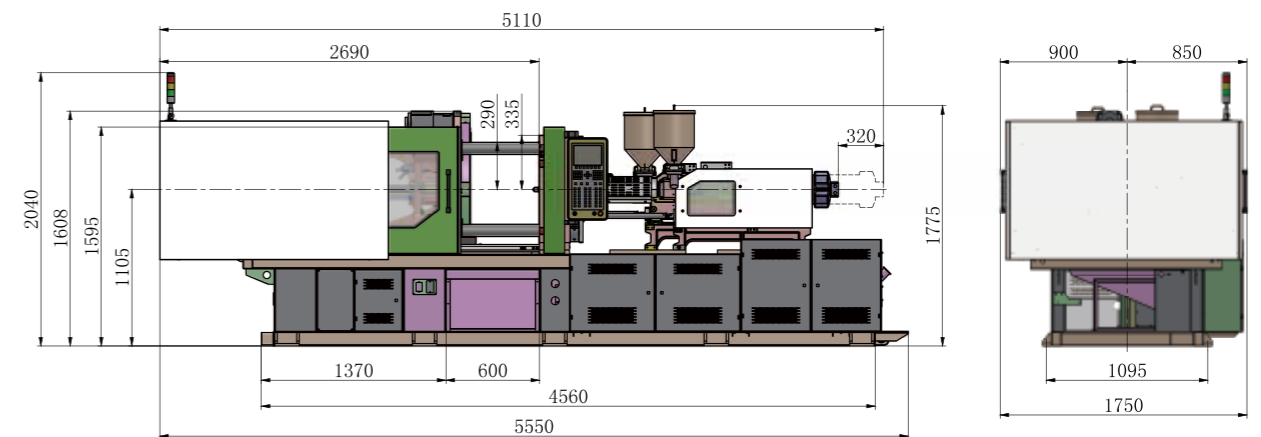
BTP: Broad Platen + Vertical Turntable + Parallel Injection unit

Description		UN160C-BTP																			
		INJECTION UNIT																			
		Combinations 1			Combinations 2			Combinations 3			Combinations 4			Combinations 5							
International size	UNIT	300			190			190			190			110		110		110		70	
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	A	B	A	B	A	B
Screw Diameter	mm	30	35	40	26	30	35	26	30	35	26	30	35	22	26	22	26	22	26	22	26
Screw L/D Ratio	L/D	24	20	20	24	22	20	24	22	20	24	22	20	24	20	20	20	20	20	20	20
Theoretical shot volume	cm <sup>3</sup>	117	159	207	72	95	130	72	95	130	72	95	130	42	58	42	58	42	58	42	58
Shot weight (PS)	gram	107	146	191	66	88	119	66	88	119	66	88	119	38	54	38	54	38	54	38	54
Injection pressure	MPa	257	189	145	259	194	143	259	194	143	259	194	143	261	187	261	187	261	187	261	187
Injection speed	mm/s	105			109			109			109			151		151		151		193	
Injection rate	g/s	68	93	122	53	71	96	53	71	96	53	71	96	53	74	53	74	53	74	53	74
Screw speed	rpm	205			160			160			160			205		205		205		256	
Screw stroke	mm	165			135			135			135			110		110		110		95	
		CLAMPING UNIT																			
Clamping force	kN	1600																			
Opening stroke	mm	360																			
Mold thickness	mm	150-430																			
Max. turning diameter	mm	855																			
Turntable bearing capacity	t	0.6																			
Distance between centers of mold locating holes	mm	420																			
Space between tie bars	mm	710x420																			
Ejector stroke	mm	100																			
Ejector force	kN	28x2																			
		GENERAL																			
Max.system pressure	MPa	17.5																			
Motor power	kW	11	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
Heating power	kW	6.9/7.8	5.5/6.9	5.5/6.9	5.5/6.9	5.5/6.9	4.8/5.5	4.8/5.5	4.8/5.5	4.8/5.5	4.8/5.5	4.8/5.5	4.8/5.5	4.8/5.5	4.8/5.5	4.8/5.5	4.8/5.5	4.8/5.5	4.8/5.5	4.8/5.5	4.6/4.8
Machine Dimensions (L×W×H)	m	5.55x1.75x2.04																			
Machine Weight	t	7.05			6.95			6.95			6.85			6.85							
Hopper Capacity	kg	25/25																			
Oil Tank Capacity	L	280																			

## Platen dimensions



## Machine dimensions

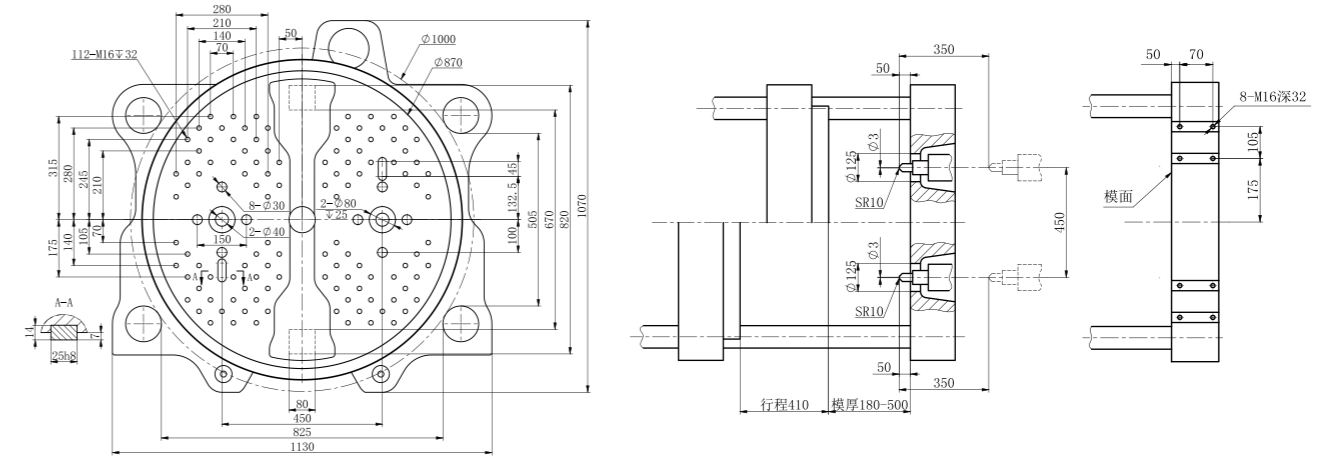


# UN200C-BTP Specification

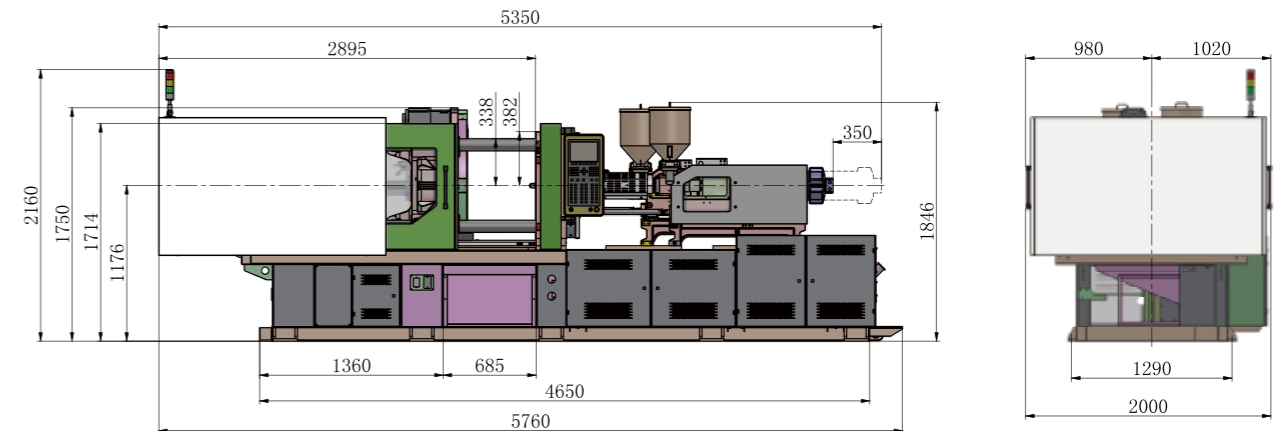
BTP: Broad Platen + Vertical Turntable + Parallel Injection unit

Description		UN200C-BTP																
INJECTION UNIT																		
		Combinations 1			Combinations 2			Combinations 3			Combinations 4							
International size	UNIT	300			190			190			190			110				
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	A	B	
Screw Diameter	mm	30	35	40	26	30	35	26	30	35	26	30	35	22	26	22	26	
Screw L/D Ratio	L/D	24	20	20	24	22	20	24	22	20	24	22	20	20	20	20	20	
Theoretical shot volume	cm <sup>3</sup>	117	159	207	72	95	130	72	95	130	72	95	130	42	58	42	58	
Shot weight (PS)	gram	107	146	191	66	88	119	66	88	119	66	88	119	38	54	38	54	
Injection pressure	MPa	257	189	145	259	194	143	259	194	143	259	194	143	261	187	261	187	
Injection speed	mm/s	132			109			139			109			139				
Injection rate	g/s	86	116	152	53	71	96	68	91	123	53	71	96	68	91	123	53	74
Screw speed	rpm	256			160			205			160			205				
Screw stroke	mm	165			135			135			135			110				
CLAMPING UNIT																		
Clamping force	kN	2000																
Opening stroke	mm	410																
Mold thickness	mm	180-500																
Max. turning diameter	mm	1000																
Turntable bearing capacity	t	0.8																
Distance between centers of mold locating holes	mm	450																
Space between tie bars	mm	825x505																
Ejector stroke	mm	110																
Ejector force	kN	34x2																
GENERAL																		
Max.system pressure	MPa	17.5																
Motor power	kW	16	9.5	11	9.5	11	9.5	11	9.5	11	9.5	11	9.5	11	9.5	11	9.5	
Heating power	kW	6.9/7.8	5.5/6.9	5.5/6.9	5.5/6.9	5.5/6.9	5.5/6.9	5.5/6.9	4.8/5.5	4.8/5.5	4.8/5.5	4.8/5.5	4.8/5.5	4.8/5.5	4.8/5.5	4.8/5.5	4.8/5.5	
Machine Dimensions (L×W×H)	m	5.76x2x2.16																
Machine Weight	t	9.5			9.4			9.4			9.4			9.3				
Hopper Capacity	kg	25/25																
Oil Tank Capacity	L	320																

## Platen dimensions



## Machine dimensions



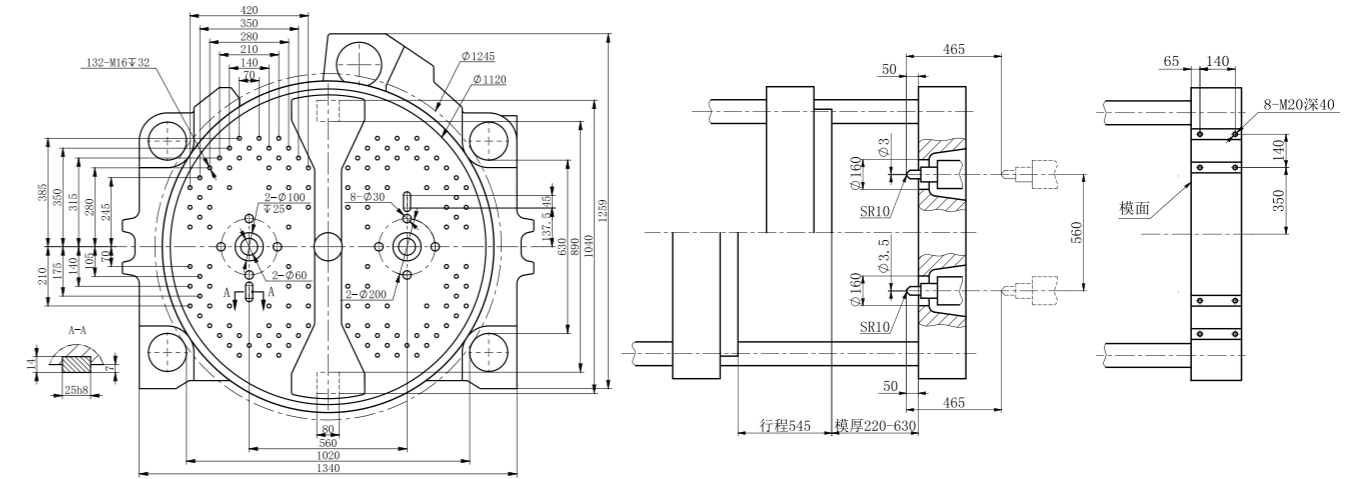


# UN360C-BTP Specification

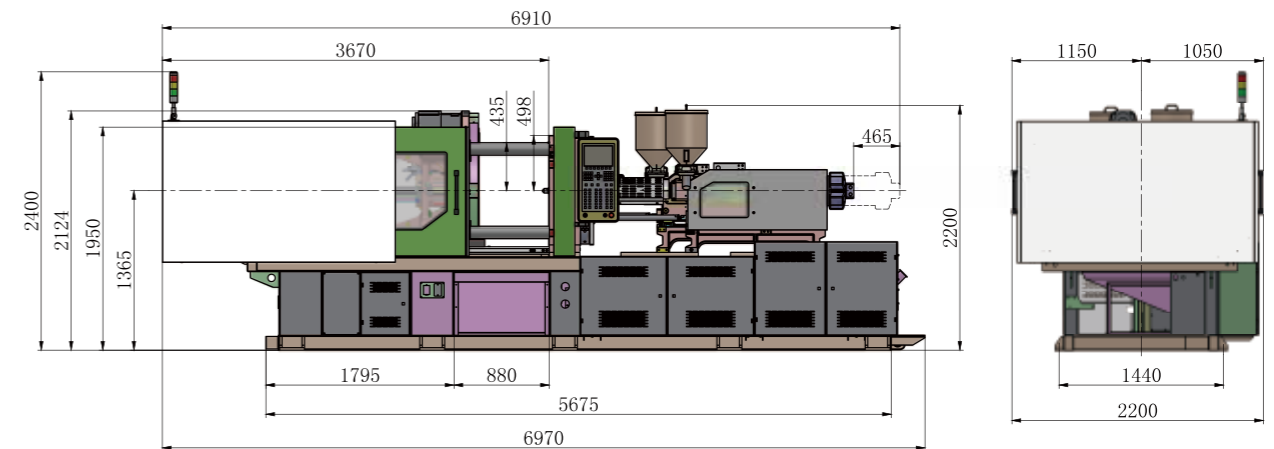
BTP: Broad Platen + Vertical Turntable + Parallel Injection unit

Description		UN360C-BTP																							
		INJECTION UNIT																							
		Combinations 1						Combinations 2						Combinations 3						Combinations 4					
International size	UNIT	930			300			630			300			420			190			300			190		
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw Diameter	mm	48	53	60	30	35	40	43	48	53	30	35	40	35	43	48	26	30	35	30	35	40	26	30	35
Screw L/D Ratio	L/D	22	20	20	24	20	20	22.3	20	20	24	20	20	24	20	20	24	22	20	24	20	20	24	22	20
Theoretical shot volume	cm <sup>3</sup>	425	518	664	117	159	207	298	371	452	117	159	207	163	247	307	72	95	130	117	159	207	72	95	130
Shot weight (PS)	gram	391	477	611	107	146	191	274	341	416	107	146	191	150	227	283	66	88	119	107	146	191	66	88	119
Injection pressure	MPa	220	180	140	257	189	145	213	171	140	257	189	145	260	172	138	259	194	143	257	189	145	259	194	143
Injection speed	mm/s	95			105			122			105			136			139			165			139		
Injection rate	g/s	158	192	247	68	93	122	163	203	247	68	93	122	120	181	226	68	91	123	107	146	190	68	91	123
Screw speed	rpm	215			219			323			205			333			205			320			205		
Screw stroke	mm	235			165			205			165			170			135			165			135		
		CLAMPING UNIT																							
Clamping force	kN	3600																							
Opening stroke	mm	545																							
Mold thickness	mm	220-630																							
Max. turning diameter	mm	1240																							
Turntable bearing capacity	t	1.8																							
Distance between centers of mold locating holes	mm	560																							
Space between tie bars	mm	1020x630																							
Ejector stroke	mm	130																							
Ejector force	kN	67x2																							
		GENERAL																							
Max.system pressure	MPa	17.5																							
Motor power	kW	24		11		24		11		24		11		24		11		19.6		11					
Heating power	kW	14.4/16.8		6.9/7.8		10.9/12.1		6.9/7.8		9/10.1		5.5/6.9		6.9/7.8		5.5/6.9									
Machine Dimensions (L×W×H)	m	6.97x2.2x2.4																							
Machine Weight	t	15.5			15.4			15.3			14.9														
Hopper Capacity	kg	50/25			25/25			25/25			25/25														
Oil Tank Capacity	L	415																							

## Platen dimensions



## Machine dimensions

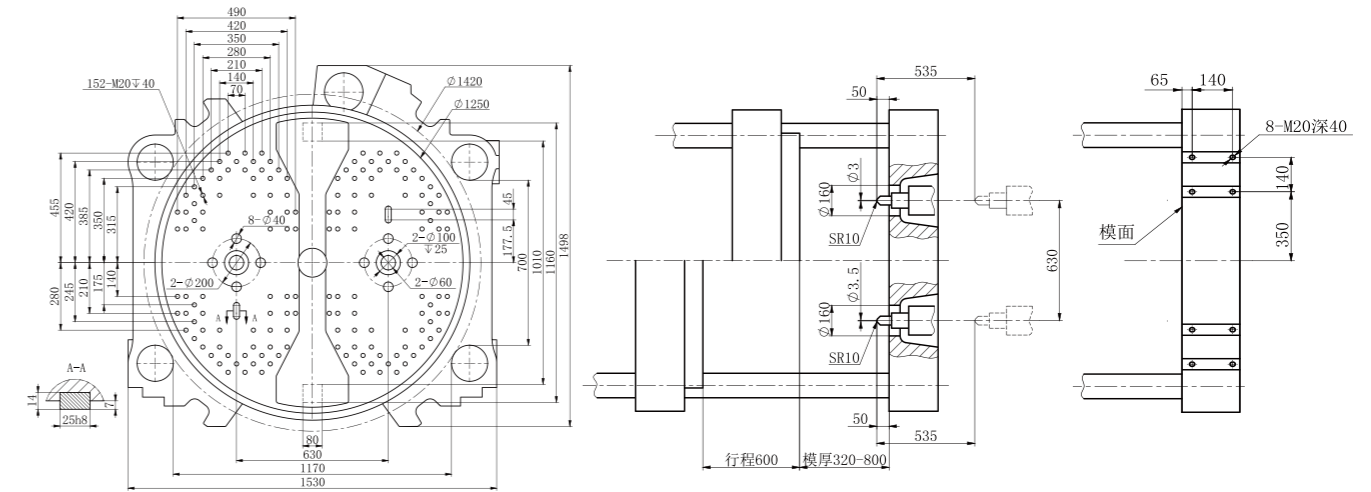


# UN550C-BTP Specification

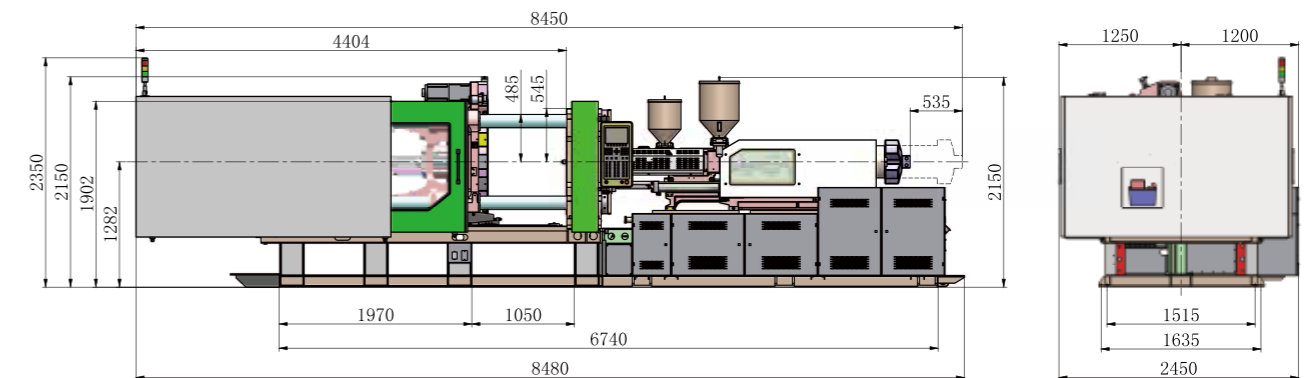
BTP: Broad Platen + Vertical Turntable + Parallel Injection unit

Description		UN550C-BTP																	
		INJECTION UNIT																	
		Combinations 1						Combinations 2						Combinations 3					
International size	UNIT	1870			420			1310			300			930			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	35	43	48	53	60	68	30	35	40	48	53	60	30	35	40
Screw L/D Ratio	L/D	22.6	20	20	24	20	20	22.6	20	20	24	20	20	22	20	20	24	20	20
Theoretical shot volume	cm <sup>3</sup>	834	1071	1338	163	247	307	584	749	962	117	159	207	425	518	664	117	159	207
Shot weight (PS)	gram	767	985	1231	150	227	283	538	689	885	107	146	191	391	477	611	107	146	191
Injection pressure	MPa	225	175	140	260	172	138	237	185	144	257	189	145	220	180	140	257	189	145
Injection speed	mm/s	92			93			112			132			118			132		
Injection rate	g/s	239	307	383	82	124	155	227	290	373	86	116	152	196	238	306	86	116	152
Screw speed	rpm	200			229			250			273			267			273		
Screw stroke	mm	295			170			265			165			235			165		
		CLAMPING UNIT																	
Clamping force	kN	5500																	
Opening stroke	mm	600																	
Mold thickness	mm	320-800																	
Max. turning diameter	mm	1420																	
Turntable bearing capacity	t	2.8																	
Distance between centers of mold locating holes	mm	630 (Optional 550 or 650)																	
Space between tie bars	mm	1170x700																	
Ejector stroke	mm	150																	
Ejector force	kN	110x2																	
		GENERAL																	
Max.system pressure	MPa	17.5																	
Motor power	kW	48.1			16			48.1			16			34.7			16		
Heating power	kW	22.2/24.6			9/10.1			16.6/19			6.9/7.8			14.4/16.8			6.9/7.8		
Machine Dimensions (L×W×H)	m	8.48x2.45x2.35																	
Machine Weight	t	29.3						28.7						28.3					
Hopper Capacity	kg	50/25						50/25						50/25					
Oil Tank Capacity	L	660																	

## Platen dimensions



## Machine dimensions

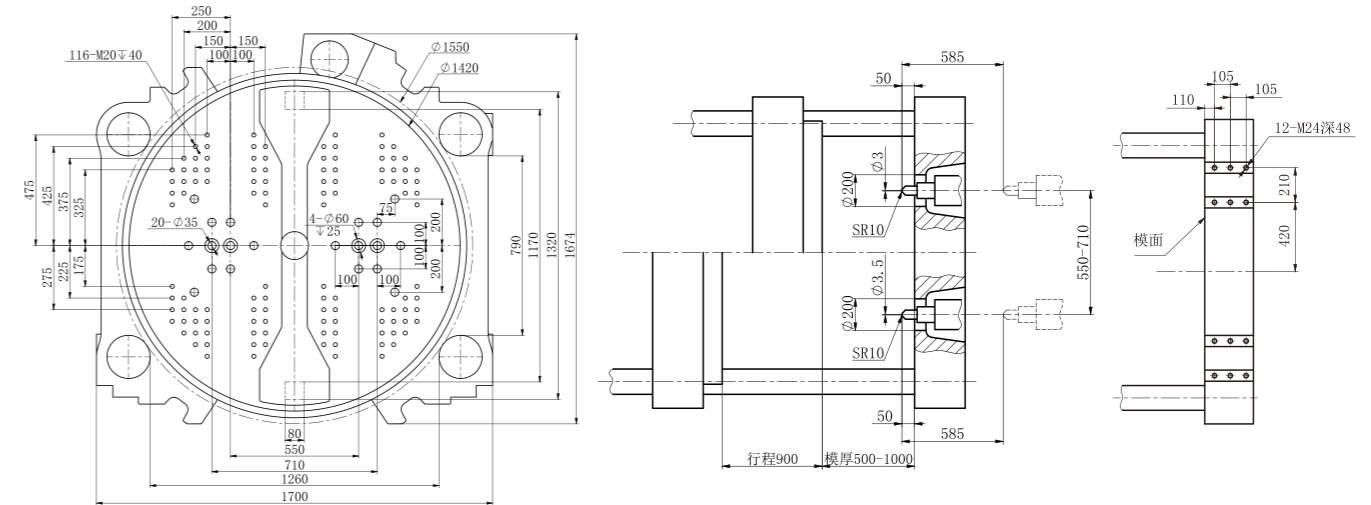


# UN750C-BTP Specification

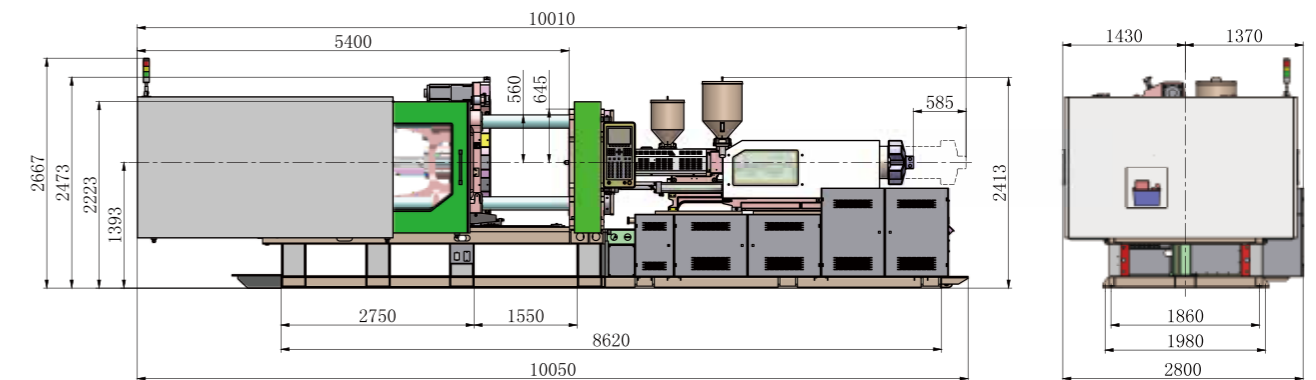
BTP: Broad Platen + Vertical Turntable + Parallel Injection unit

Description		UN750C-BTP											
INJECTION UNIT													
		Combinations 1						Combinations 2					
International size	UNIT	1310			630			930			420		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw Diameter	mm	53	60	68	43	48	53	48	53	60	35	43	48
Screw L/D Ratio	L/D	22.6	20	20	22.3	20	20	22	20	20	24	20	20
Theoretical shot volume	cm <sup>3</sup>	584	749	962	298	371	452	425	518	664	163	247	307
Shot weight (PS)	gram	538	689	885	274	341	416	391	477	611	150	227	283
Injection pressure	MPa	237	185	144	213	171	140	220	180	140	260	172	138
Injection speed	mm/s	112			94			118			116		
Injection rate	g/s	227	290	373	126	157	191	196	238	306	103	156	194
Screw speed	rpm	250			250			267			286		
Screw stroke	mm	265			205			235			170		
CLAMPING UNIT													
Clamping force	kN	7500											
Opening stroke	mm	900											
Mold thickness	mm	500-1000											
Max. turning diameter	mm	1550											
Turntable bearing capacity	t	5											
Distance between centers of mold locating holes	mm	550/630/650/710											
Space between tie bars	mm	1260x790											
Ejector stroke	mm	150											
Ejector force	kN	110x2											
GENERAL													
Max.system pressure	MPa	17.5											
Motor power	kW	48.1			19.6			34.7			19.6		
Heating power	kW	16.6/19			10.9/12.1			14.4/16.8			9/10.1		
Machine Dimensions (L×W×H)	m	10.05x2.8x2.67											
Machine Weight	t	34						33.5					
Hopper Capacity	kg	100/25						50/25					
Oil Tank Capacity	L	780											

## Platen dimensions



## Machine dimensions



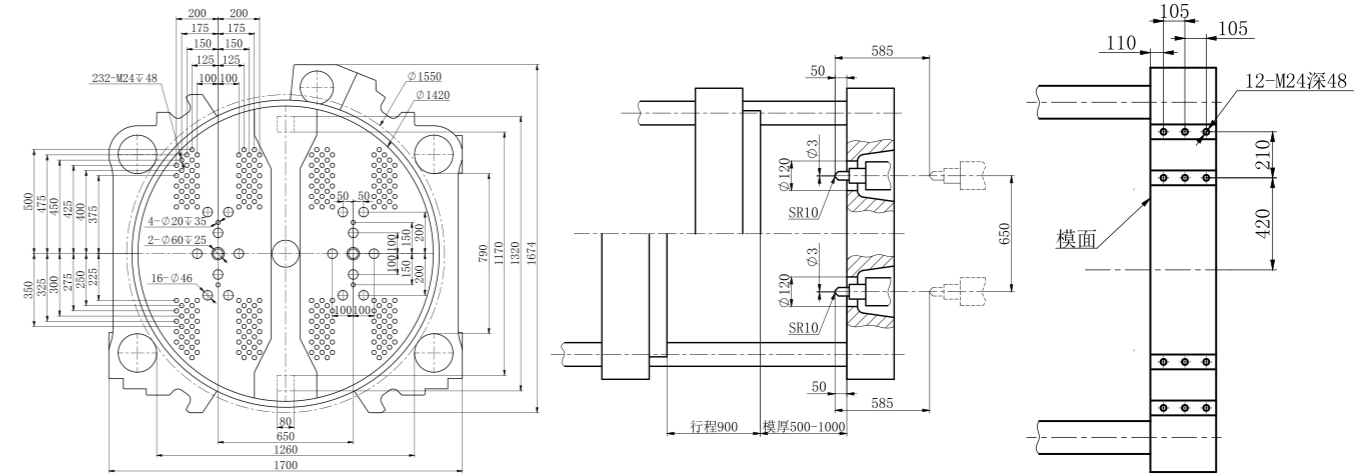
# UN800C-BTP Specification

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

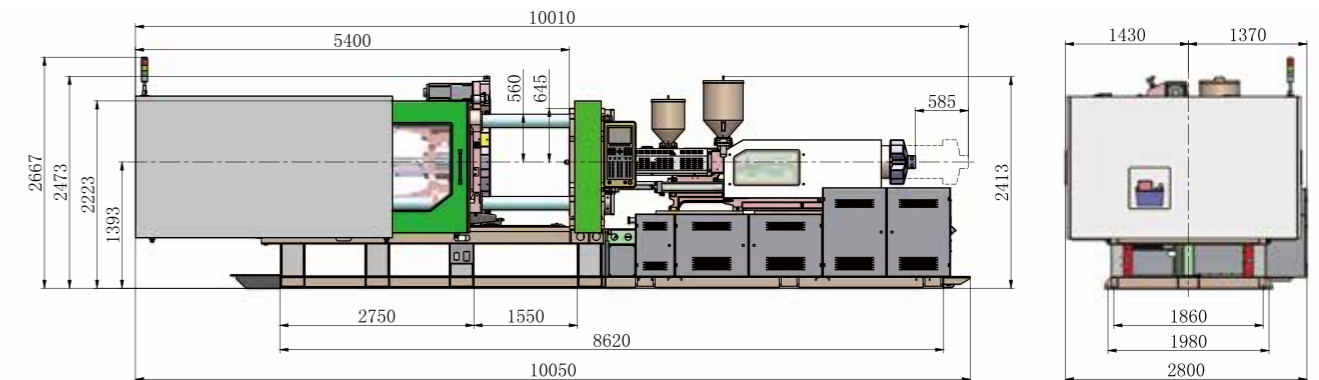
BTP: Broad Platen + Vertical Turntable + Parallel Injection unit

Description		UN800C-BTP																	
		INJECTION UNIT																	
		Combinations 1						Combinations 2						Combinations 3					
International size	UNIT	630			420			1310			630			930			300		
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw Diameter	mm	43	48	53	35	43	48	53	60	68	43	48	53	48	53	60	35	43	48
Screw L/D Ratio	L/D	22.3	20	20	24	20	20	22.6	20	20	22.3	20	20	22	20	20	24	20	20
Theoretical shot volume	cm <sup>3</sup>	298	371	452	163	247	307	584	749	962	298	371	452	425	518	664	163	247	307
Shot weight (PS)	gram	274	341	416	150	227	283	538	689	885	274	341	416	391	477	611	150	227	283
Injection pressure	MPa	213	171	140	260	172	138	237	185	144	213	171	140	220	180	140	260	172	138
Injection speed	mm/s	236			233			112			94			118			116		
Injection rate	g/s	315	393	479	206	311	388	227	290	373	126	157	191	196	238	306	103	156	194
Screw speed	rpm	625			571			250			250			267			286		
Screw stroke	mm	205			170			265			205			235			170		
		CLAMPING UNIT																	
Clamping force	kN	8000																	
Opening stroke	mm	900																	
Mold thickness	mm	500-1000																	
Max. turning diameter	mm	1550																	
Turntable bearing capacity	t	5																	
Distance between centers of mold locating holes	mm	650																	
Space between tie bars	mm	1260×790																	
Ejector stroke	mm	150																	
Ejector force	kN	110×2																	
		GENERAL																	
Max.system pressure	MPa	17.5																	
Motor power	kW	59.6			48.1			48.1			19.6			34.7			19.6		
Heating power	kW	10.9/12.1			9/10.1			16.6/19			10.9/12.1			14.4/16.8			9/10.1		
Machine Dimensions (L×W×H)	m	10.05×2.8×2.67																	
Machine Weight	t	34.5						34						33.5					
Hopper Capacity	kg	50/25						50/25						50/25					
Oil Tank Capacity	L	900						780						780					

## Platen dimensions



## Machine dimensions





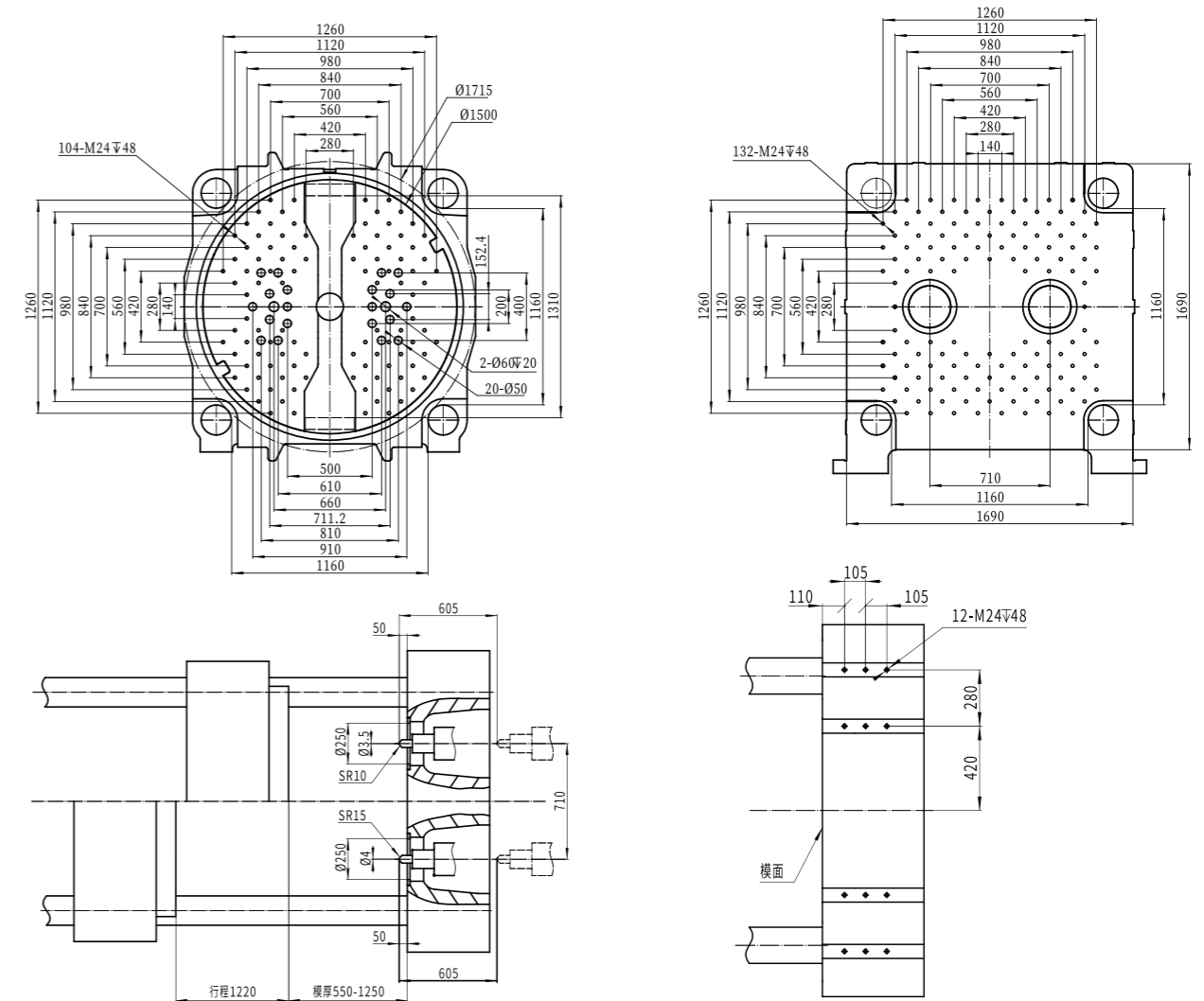
# UN1000C-NTP Specification

NTP: Narrow Platen + Vertical Turntable + Parallel Injection unit

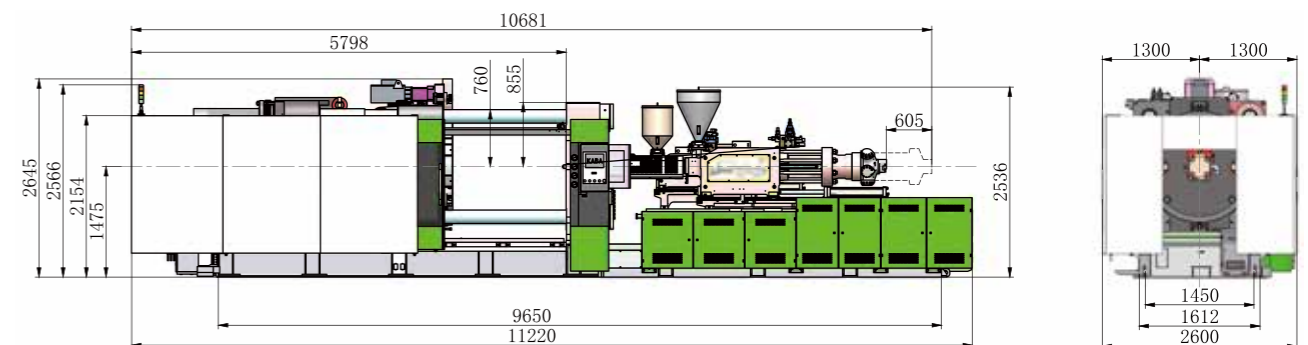
Description		UN1000C-NTP																										
		INJECTION UNIT																										
		Combinations 1						Combinations 2						Combinations 3						Combinations 4								
International size	UNIT	3100			930			630			420			4500			1310			1870			630					
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw Diameter	mm	68	76	84	48	53	60	43	48	53	35	43	48	76	84	92	53	60	68	60	68	76	43	48	53	43	48	53
Screw L/D Ratio	L/D	22.3	20	20	22	20	20	22.3	20	20	24	20	20	22.1	20	22	22.6	20	20	22.6	20	20	22.3	20	20	22.3	20	20
Theoretical shot volume	cm <sup>3</sup>	1379	1723	2105	425	518	664	298	371	452	163	247	307	1904	2326	2791	584	749	962	834	1071	1338	298	371	452	298	371	452
Shot weight (PS)	gram	1269	1585	1936	391	477	611	274	341	416	150	227	283	1752	2140	2567	538	689	885	767	985	1231	274	341	416	274	341	416
Injection pressure	MPa	227	182	149	220	180	140	213	171	140	260	172	138	238	194	162	237	185	144	225	175	140	213	171	140	213	171	140
Injection speed	mm/s	105			147			236			233			80			112			115			189					
Injection rate	g/s	350	437	534	244	298	382	315	393	479	206	311	388	334	408	490	227	290	373	299	383	479	252	314	383	252	314	383
Screw speed	rpm	148			250			417			400			123			200			208			333					
Screw stroke	mm	380			235			205			170			420			265			295			205					
		CLAMPING UNIT																										
Clamping force	kN	10000																										
Opening stroke	mm	1220																										
Mold thickness	mm	550-1250																										
Max. turning diameter	mm	1715																										
Turntable bearing capacity	t	7																										
Distance between centers of mold locating holes	mm	710																										
Space between tie bars	mm	1160×1160																										
Ejector stroke	mm	150																										
Ejector force	kN	110×2																										
		GENERAL																										
Max.system pressure	MPa	17.5																										
Motor power	kW	60.5	48.1	59.6	48.1	60.5	48.1	59.6	48.1	60.5	48.1	59.6	48.1	60.5	48.1	59.6	48.1	60.5	48.1	59.6	48.1	60.5	48.1	59.6	48.1	60.5	48.1	
Heating power	kW	26.4/30.9	14.4/16.8	10.9/12.1	9/10.1	41.6/45	16.6/19	22.2/24.6	10.9/12.1	26.4/30.9	14.4/16.8	10.9/12.1	9/10.1	41.6/45	16.6/19	22.2/24.6	10.9/12.1	26.4/30.9	14.4/16.8	10.9/12.1	9/10.1	41.6/45	16.6/19	22.2/24.6	10.9/12.1	26.4/30.9	14.4/16.8	
Machine Dimensions (L×W×H)	m	11.22×2.60×2.65																										
Machine Weight	t	50																										
Hopper Capacity	kg	100/100																										
Oil Tank Capacity	L	1300																										

※ Note: The injection units mentioned above can be combined randomly.

## Platen dimensions



## Machine dimensions



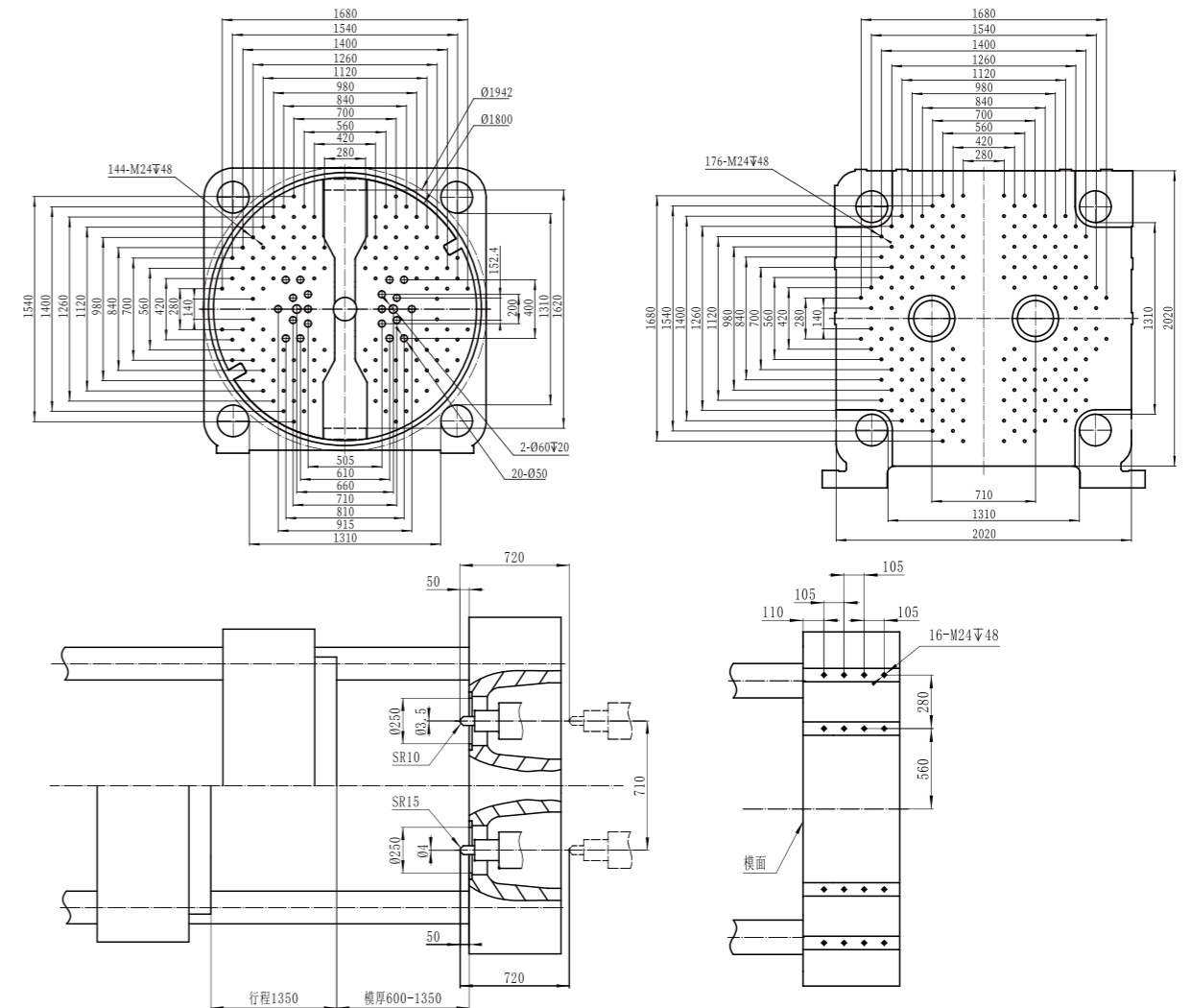
# UN1400C-NTP Specification

NTP: Narrow Platen + Vertical Turntable + Parallel Injection unit

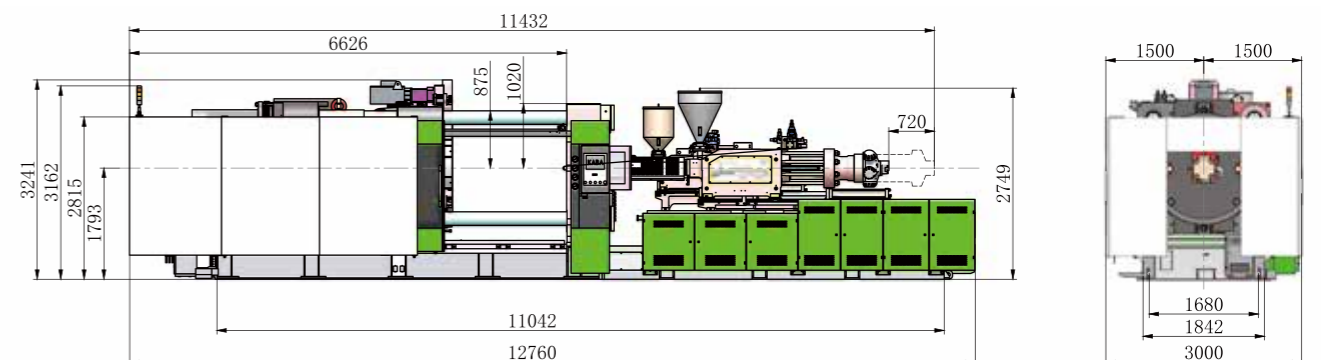
Description		UN1400C-NTP																													
INJECTION UNIT																															
International size	UNIT	Combinations 1						Combinations 2						Combinations 3						Combinations 4											
		3100			930			630			420			4500			1310			1870			630								
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C			
Screw Diameter	mm	68	76	84	48	53	60	43	48	53	35	43	48	76	84	92	53	60	68	60	68	76	43	48	53						
Screw L/D Ratio	L/D	22.3	20	20	22	20	20	22.3	20	20	24	20	20	22.1	20	22	22.6	20	20	22.6	20	20	22.3	20	20						
Theoretical shot volume	cm <sup>3</sup>	1379	1723	2105	425	518	664	298	371	452	163	247	307	1904	2326	2791	584	749	962	834	1071	1338	298	371	452						
Shot weight (PS)	gram	1269	1585	1936	391	477	611	274	341	416	150	227	283	1752	2140	2567	538	689	885	767	985	1231	274	341	416						
Injection pressure	MPa	227	182	149	220	180	140	213	171	140	260	172	138	238	194	162	237	185	144	225	175	140	213	171	140						
Injection speed	mm/s	105			147			236			233			80			112			115			189								
Injection rate	g/s	350	437	534	244	298	382	315	393	479	206	311	388	334	408	490	227	290	373	299	383	479	252	314	383						
Screw speed	rpm	148			250			417			400			123			200			208			333								
Screw stroke	mm	380			235			205			170			420			265			295			205								
CLAMPING UNIT																															
Clamping force	kN	14000																													
Opening stroke	mm	1350																													
Mold thickness	mm	600-1350																													
Max. turning diameter	mm	1942																													
Turntable bearing capacity	t	11																													
Distance between centers of mold locating holes	mm	710																													
Space between tie bars	mm	1310×1310																													
Ejector stroke	mm	220																													
Ejector force	kN	166×2																													
GENERAL																															
Max.system pressure	MPa	17.5																													
Motor power	kW	60.5	48.1	59.6	48.1	60.5	48.1	59.6	48.1	60.5	48.1	59.6	48.1	60.5	48.1	59.6	48.1	59.6	48.1	60.5	48.1	59.6	48.1	59.6	48.1	60.5	48.1	59.6			
Heating power	kW	26.4/30.9	14.4/16.8	10.9/12.1	9/10.1	41.6/45	16.6/19	22.2/24.6	10.9/12.1																						
Machine Dimensions (L×W×H)	m	12.76×3.0×3.24																													
Machine Weight	t	75																													
Hopper Capacity	kg	100/100																													
Oil Tank Capacity	L	1300																													

※ Note: The injection units mentioned above can be combined randomly.

## Platen dimensions



## Machine dimensions



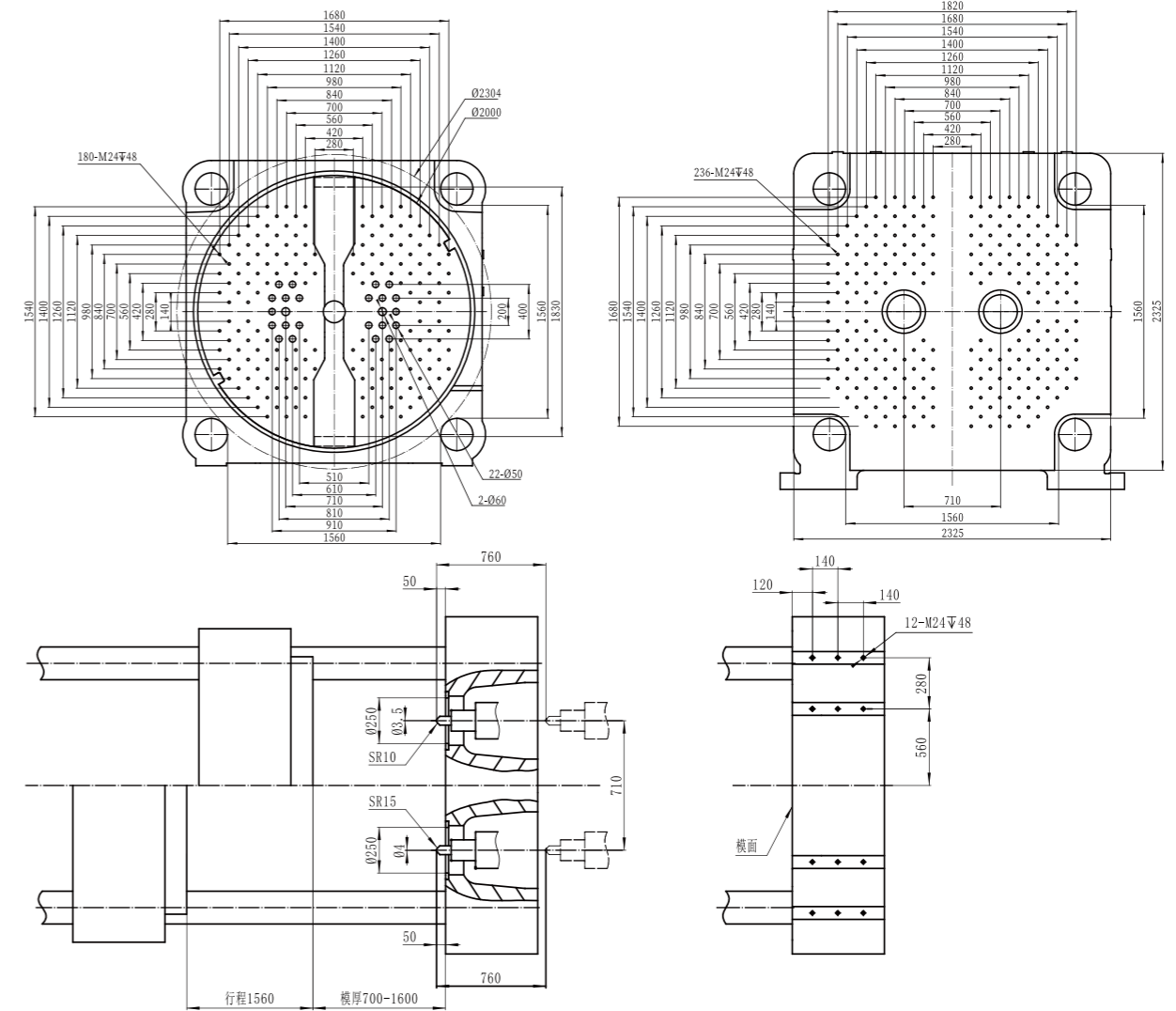
# UN1600C-NTP Specification

NTP: Narrow Platen + Vertical Turntable + Parallel Injection unit

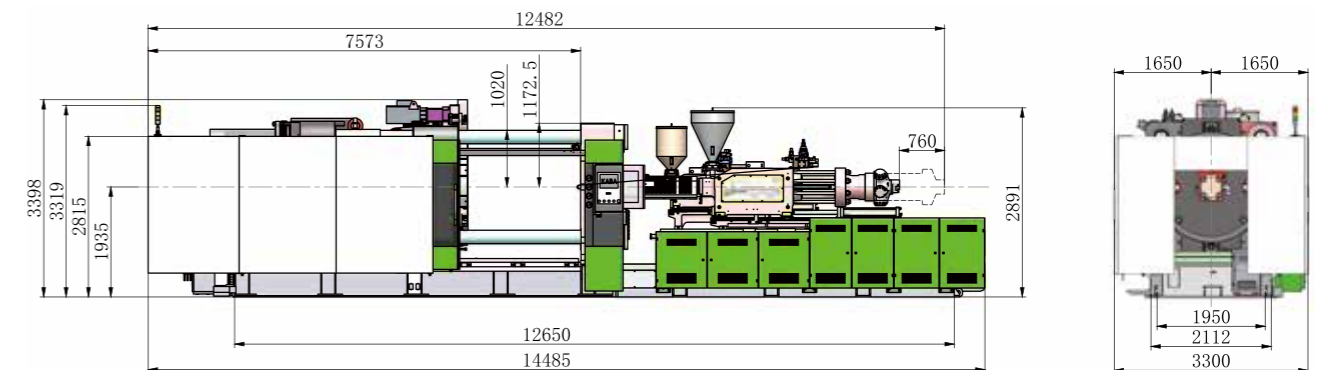
Description		UN1600C-NTP																										
		INJECTION UNIT																										
		Combinations 1						Combinations 2						Combinations 3						Combinations 4								
International size	UNIT	3100			930			930			420			4500			1310			1870			630					
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw Diameter	mm	68	76	84	48	53	60	48	53	60	35	43	48	76	84	92	53	60	68	60	68	76	43	48	53			
Screw L/D Ratio	L/D	22.3	20	20	22	20	20	22	20	20	24	20	20	22.1	20	22	22.6	20	20	22.6	20	20	22.3	20	20			
Theoretical shot volume	cm <sup>3</sup>	1379	1723	2105	425	518	664	425	518	664	163	247	307	1904	2326	2791	584	749	962	834	1071	1338	298	371	452			
Shot weight (PS)	gram	1269	1585	1936	391	477	611	391	477	611	150	227	283	1752	2140	2567	538	689	885	767	985	1231	274	341	416			
Injection pressure	MPa	227	182	149	220	180	140	220	180	140	260	172	138	238	194	162	237	185	144	225	175	140	213	171	140			
Injection speed	mm/s	141			147			264			233			135			140			184			189					
Injection rate	g/s	472	590	721	244	298	382	440	537	688	206	311	388	565	690	828	283	363	466	478	614	766	252	314	383			
Screw speed	rpm	200			250			350			400			208			250			333			333					
Screw stroke	mm	380			235			235			170			420			265			295			205					
		CLAMPING UNIT																										
Clamping force	kN	16000																										
Opening stroke	mm	1560																										
Mold thickness	mm	700-1600																										
Max. turning diameter	mm	2304																										
Turntable bearing capacity	t	12																										
Distance between centers of mold locating holes	mm	710																										
Space between tie bars	mm	1560×1560																										
Ejector stroke	mm	220																										
Ejector force	kN	166×2																										
		GENERAL																										
Max.system pressure	MPa	17.5																										
Motor power	kW	48.1*2			48.1			48.1*2			48.1			59.6*2			59.6			48.1*2			48.1					
Heating power	kW	26.4/30.9			14.4/16.8			14.4/16.8			9/10.1			41.6/45			16.6/19			22.2/24.6			10.9/12.1					
Machine Dimensions (L×W×H)	m	14.49×3.30×3.40																										
Machine Weight	t	108																										
Hopper Capacity	kg	100/100																										
Oil Tank Capacity	L	1600																										

※ Note: The injection units mentioned above can be combined randomly.

## Platen dimensions



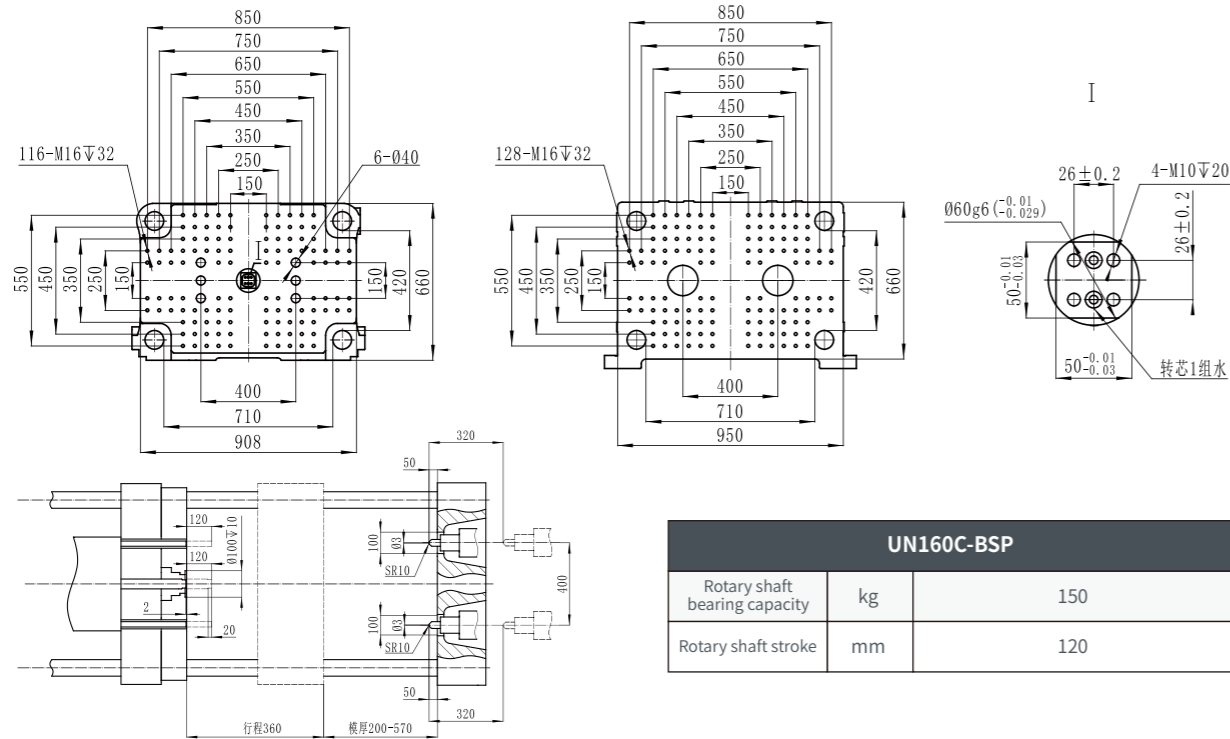
## Machine dimensions



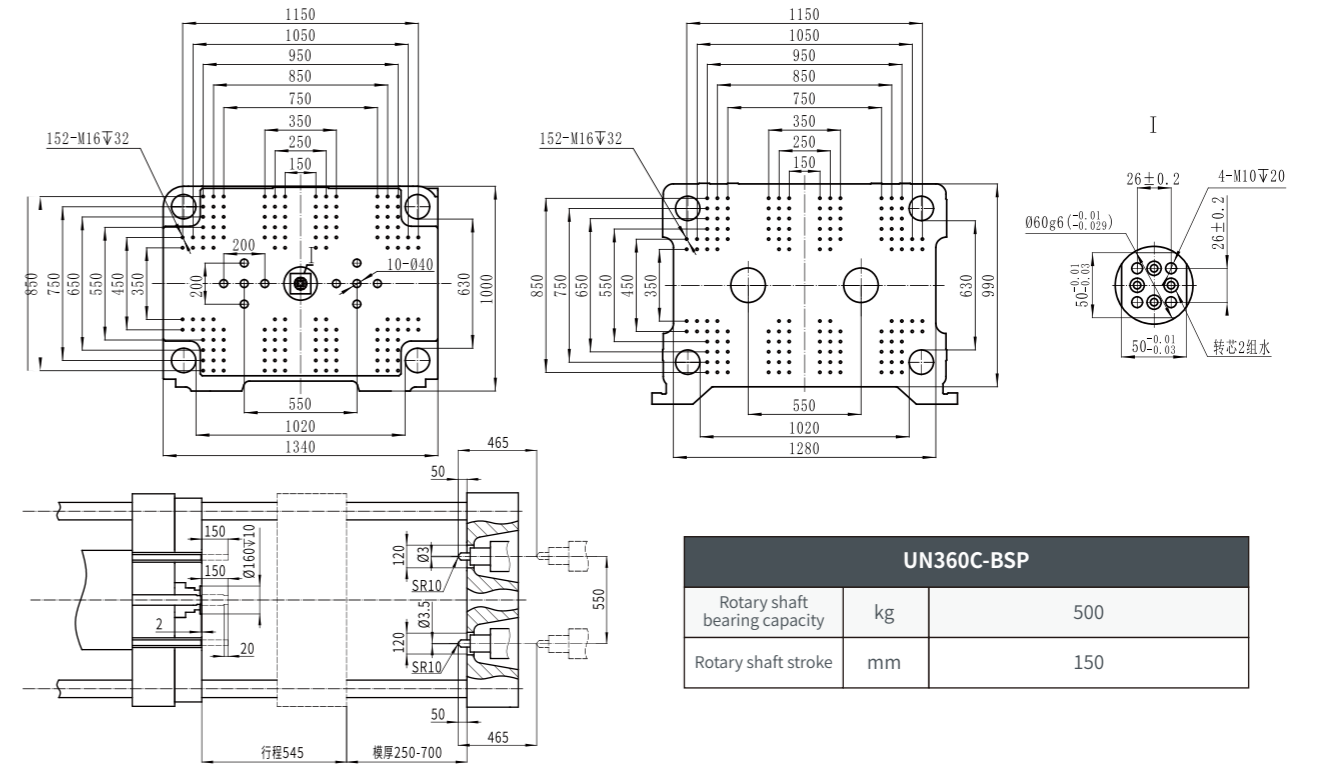
# BSP Platen dimensions

※ Note: Other BSP specifications (except the following specifications), please refer to BTP specification.

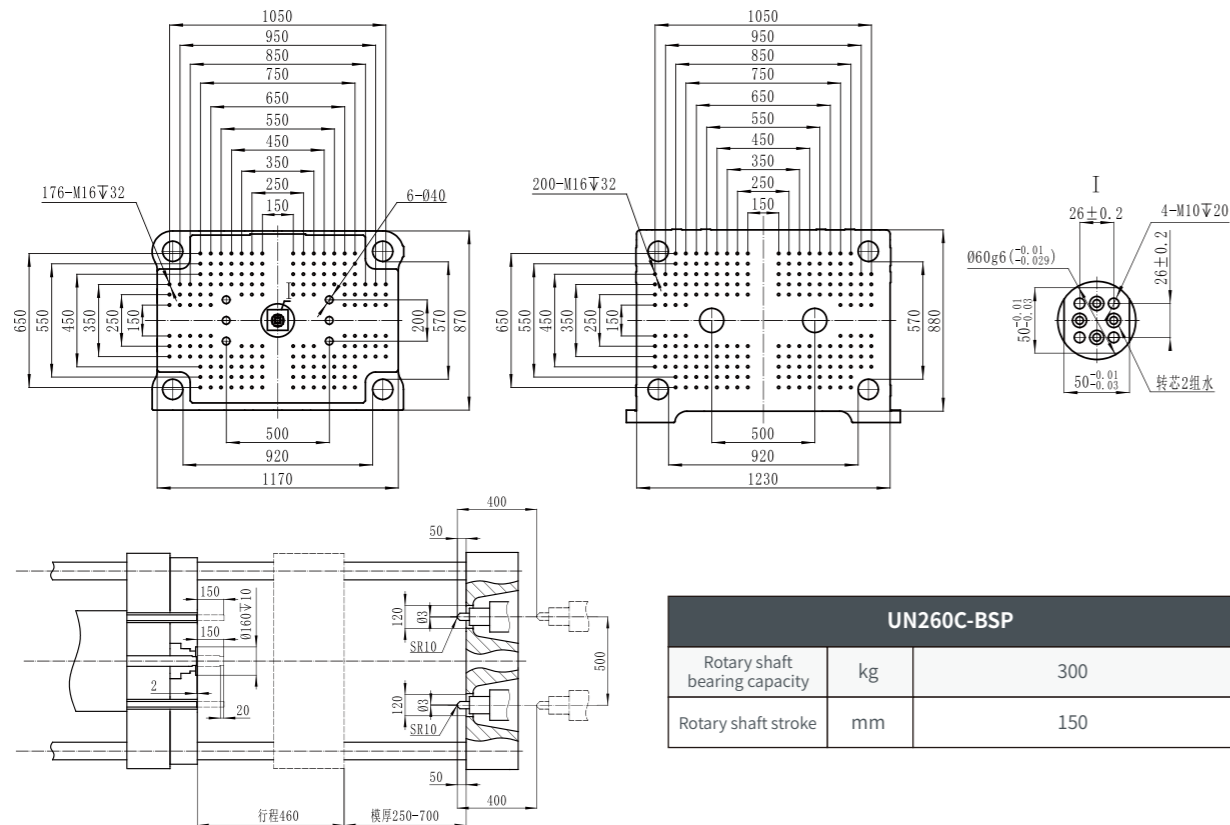
## UN160C-BSP



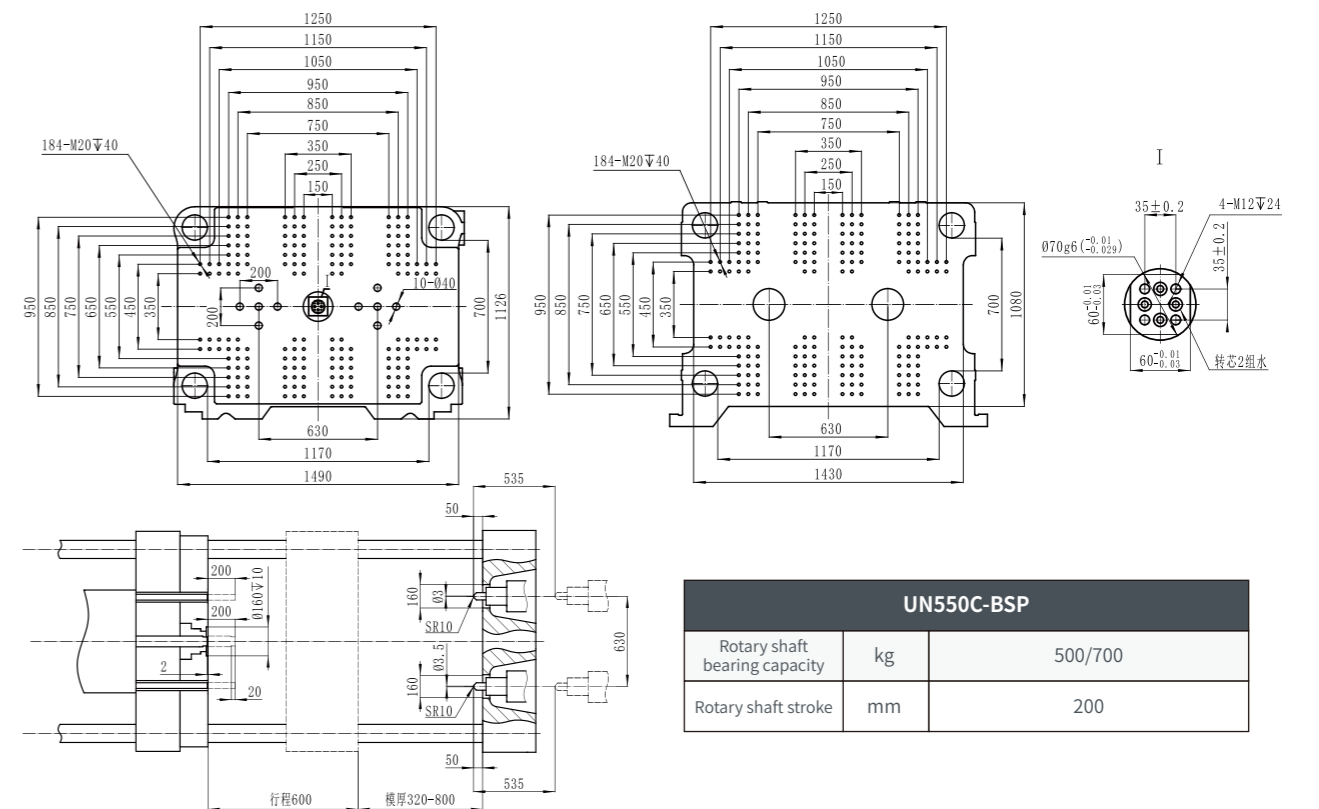
## UN360C-BSP



## UN260C-BSP



## UN550C-BSP



# Diversified combinations of modular injection units

## P series

IMM: C-BTP series / C-NTP series  
 Combinations: BTP/V, BTP/L, BTP/V/V, BTP/L/V  
 NTP/V, NTP/L, NTP/V/V, NTP/L/V

※ Note: As to the specification of L/V independent injection unit, please refer to A5S.



C-BTP series

C-NTP 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

## Injection unit configuration

P configuration	Injection unit												
	Model	UNIT	70	110	190	300	420	630	930	1310	1870	3100	4500
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	68/76/84	76/84/92
UN160C-BTP	iA												
	iB												
UN200C-BTP	iA												
	iB												
UN260C-BTP	iA												
	iB												
UN360C-BTP	iA												
	iB												
UN550C-BTP	iA												
	iB												
UN750C-BTP	iA												
	iB												
UN1000C-NTP	iA												
	iB												
UN1400C-NTP	iA												
	iB												
UN1600C-NTP	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
<b>Clamping unit</b>		
High-rigidity platen with balanced force (BFC technology)	●	
Electrical servo turntable	●	
Magnetically levitated turntable (MLT technology, 160T/260T)	●	
Turntable water channel	●	
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		○
Hydraulic servo turntable		○
Hydraulic non-servo turntable		○
10-pin electrical connector for turntable		○
Multiple sets of air blow		○
Euromap 2 mold mounting hole		○
Magnetic platen		○
Mold thermal insulation		○
<b>Injection unit</b>		
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	●	
Fully-closed heat retaining cover	●	
Nozzle purge guard	●	
Linear guide rail for carriage	●	
Manual centralized lubrication for injection unit	●	
Carriage transducer check		○
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		○
Electrical injection unit		○
Gas assisted injection		○
Transducer for carriage position measurement		○
Spring nozzle		○
Extended nozzle		○
<b>Hydraulic system</b>		
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	●	

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		○
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		○
<b>Control system</b>		
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	●	
Electrical protection of nozzle purge guard	●	
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	●	
10.4" TFT true color LED HD display (KEBA i2980)	●	
Triple-color alarm light	●	
Power socket for auxiliary equipment (3 sets of 380V AC sockets, 1 set of 220V AC socket)	●	
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		○
15"/22" HD display		○
<b>Other</b>		
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		○

## YFO:6 Premium Services



## YIZUMI e-service 24h



## Global Operations

