## THINK TECH FORWARD

Designed by YIZUMI, October 202





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- [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.







HIGH-END MULTI-COMPONENT INJECTION MOLDING MACHINE

Stability and Customization

# THINK TECH FORWARD

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:





Protective layers of tools

Packaging

# PRODUCT DETAILS











Household appliance accessories



0

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 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 ±0.3mm.

# 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.

# ±0.3

### Higher mold-open stability

Optimal hydraulic circuit design and smart deceleration technology enable the mold-open position repeatability to reach ±0.3mm.

### 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 plasticiz-



### 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.

# **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.









### Smart mold-open deceleration technology

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



\*Pictures and descriptions of this catalogue takes UN260C-BTP as an example, technology specification is applicable for C-P series machines of all tonnage.



### 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 feet design

The sliding feet 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.





# **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.







Unit: °C	Static temperature curve	
200 -	~	
150 -		
100 -		
50 -	s	ec
	5 10 15 20	ec



### Modular injection unit combination

functions.

### 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.

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

\* 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.

# 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. (for 160T-550T IMM) Standard KEBA industrial controller. (for 750T-1900T IMM; except for 800T IMM) Standard MIRLE industrial controller, optional KEBA. (for 800T)

### 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.

### 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.

# User-friendly design

The ergonomic rotary controller cabinet, fool proof design and clear, simple operating inter face make the operation of system more com fortable and convenient.

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

### Power functions

- 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







### Turntable 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.

V Diagrammatic sketch of turntable servo control



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Interface of dedicated industrial controller

\* 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 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.











- Hydraulic V injection unit
- 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
IU190L	70	Standard 100 Optional 300			
IU295L	80	Note:			
IU420L	80	when the mold thick- ness is too small, close to the minimum mold		260C-BTP:70	
IU604L	80	thickness of the corre- sponding tonnage, b will	260-750 C-BTP: 500	360C-BTP:70 550C-BTP:80	±5
IU895L	110	make adjustments accordingto customer needs		750C-BTP:80	
IU1269L	110				
IU1885L	120				



# V-type injection unit configuration

Specifications	a/mm	b/mm	c/mm	d/mm	e/mm	
IU190V	70	220				
IU295V	80	Note: when the mold thickness is too small, close to the mini-				e
IU420V	80	mum mold thickness of the corresponding tonnage, b will make adjustments	260-750 C-BTP:350	260-750 C-BTP	±5	
IU604V	80	according to customer needs to avoid collision between nozzle and mov-				
IU895V	95	able platen.				

\* 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.

# Independent Injection Unit

# 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.

### 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.

# Specifications of the independent V injection unit

DESCRIPTION	UNIT	EIU2-50	EIU3-140	EIU4-350	EIU2-50HS	EIU3-140HS	EIU4-350HS
International specifications		50	140	350	50	140	350
				INJECTIC	ON UNIT		
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.	3 38.0 53.1 70.7 96.2	99.0134.7175.9253.3	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	4 250 266 200 147	250 260 200 139	250 186 134	372 266 200 147	250 260 200 139
Max. injection speed	mm/s	150	120	120	250	240	200
Injection rate	cm³/s	43 57 80	46 64 85 115	85 115 151 217	71 95 133	91 127 170 231	141 192 251 362
Screw stroke	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
				POWER	R UNIT		
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	4.5 5.5 6 7	6 7 8 10	3.5 4.5 5.5	4.5 5.5 6 7	6 7 8 10
Number of tempera- ture control zones		4	4	4	4	4	4

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



▲ Independent L injection unit



▲ Independent V injection unit

### 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 cleaner 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 UN160CG-BTP

DESCRIPTION							UN160CG	-BTP			
						11	NJECTION				
			Tł	ne injectio	n units men	itioned ab	ove can b	e combined	d randoi	mly.	
International specifications	UNIT		300			190		110	1	-	70
		А	В	С	A	В	С	A	В	A	В
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	cm <sup>3</sup>	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		160/2	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	4	2	04
Screw stroke	mm		165			135		110	)	ç	95
						С		G UNIT			
Clamping force	kN						1600				
Opening stroke	mm						360				
Mold thickness	mm					150	-430/480	(optional)			
Max. turning diameter	mm						855				
Turntable bearing capacity	t						0.7				
Distance between centers of mold locating holes	mm					2	120 (option	al400)			
Space between tie bars	mm						710x42	20			
Ejector stroke	mm						100				
Ejector force	kΝ						28x2				
							GENER	AL			
Max. system pressure	MPa						17.5				
Motor power (standard/optional)	kW		11/16			9.5/11		9.5/	'11	9	9.5/11
Heating power	kW		6.9/7.8			5.5/6.9		4.8/5	5.5	4.	6/4.8
Machine dimensions (L×W×H)	m						5.55x1.75	<2.04			
Machine weight	t						7.05				
Hopper capacity	kg						25				
Oil Tank capacity	L						280				

Note: The ejector stroke in the parameters is the limited 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.

# Platen Dimensions



# Platen Dimensions (Optional)









# Specifications of UN200CG-BTP

DESCRIPTION					UN2	00CG-E	3TP		
					INJE		JNIT		
			The ir	njection ur	nits mentioned	l above (	can be com	bined randomly.	
International specifications	UNIT		300			190		110	0
		A	В	С	А	В	С	А	В
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	cm <sup>3</sup>	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		160/2	205
Injection rate (standard)	g/s	91	124	162	57	75	103	56	78
Screw speed (standard)	rpm		274			171		20	4
Screw stroke	mm		165			135		110	C
					CLAN	MPING L	JNIT		
Clamping force	kN					2000			
Opening stroke	mm					410			
Mold thickness	mm				180-500	)/550 (op	otional)		
Max. turning diameter	mm					1000			
Turntable bearing capacity	t					1			
Distance between centers of mold locating holes	mm					450			
Space between tie bars	mm				8	325x505			
Ejector stroke	mm					110			
Ejector force	kN					34x2			
					G	ENERAL	-		
Max. system pressure	MPa					17.5			
Motor power (standard/optional)	kW		16/19.6			9.5/11		9.5/	/11
Heating power	kW		6.9/7.8			5.5/6.9		4.8/	5.5
Machine dimensions (L×W×H)	m				5.	76x2x2.16	5		
Machine weight	t					9.5			
Hopper capacity	kg					25			
Oil Tank capacity	L					360			

Note: The ejector stroke in the parameters is the limited 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 ejector plate of the mold, corresponding to the location of the ejector hole to increase the actual ejector stroke.

# Platen Dimensions



# Platen Dimensions (Optional)









# Specifications of UN260CG-BTP

DESCRIPTION								UN26	0CG	-BTP					
								INJEC	TION	UNIT					
				Th	e injec	tion ur	nits me	ntioned	above	e can b	e comb	ined r	andom	nly.	
International specifications	UNIT		630			420			300			190			110
		А	В	С	А	В	С	A	В	С	A	В	С	A	В
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	cm <sup>3</sup>	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	26	1 187
Max. injection speed (standard/optional)	mm/s	1	03/130	)	1	02/128	3	112	/140/1	75	1	48/18	6		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
								CLAM	IPING	UNIT					
Clamping force	kN							2600 (c	ption	al2800)					
Opening stroke	mm								460						
Mold thickness	mm						4	200-560	/660 (	optiona	)				
Max. turning diameter	mm								1120						
Turntable bearing capacity	t								1.5						
Distance between centers of mold locating holes	mm							490 (c	ptiona	al500)					
Space between tie bars	mm							9	20x57	0					
Ejector stroke	mm								110						
Ejector force	kN								34x2						
								G	ENER	4L					
Max. system pressure	MPa								17.5						
Motor power (standard/optional)	kW	1	19.6/24	Ļ		16/19.6	)	11	/16/19.	.6		11/16			11/16
Heating power	kW	1	0.9/12.	1		9/10.1		0	5.9/7.8		ļ	5.5/6.9	)		4.8/5.5
Machine dimensions (L×W×H)	m							6.15>	(2.05x)	2.25					
Machine weight	t								11.8						
Hopper capacity	kg								25						
Oil Tank capacity	L								380						

Note: The ejector stroke in the parameters is the limited 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 ejector plate of the mold, corresponding to the location of the ejector hole to increase the actual ejector stroke.

# Platen Dimensions



# Platen Dimensions (Optional)









# Specifications of UN360CG-BTP

DESCRIPTION								UN36	0CG	-BTP						
								INJEC		I UNIT						
				Tł	ne inject	tion ur	nits me	entioned	above	e can b	e comb	ined ı	randor	nly.		
International specifications	UNIT		930			630			420			300			190	
		А	В	С	А	В	С	A	В	С	А	В	С	А	В	С
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	cm <sup>3</sup>	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	1	101/118	3	1	30/15	1	1	61/187	7	112	/140/	175		148/18	6
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	
								CLAM	IPING							
Clamping force	kΝ							3600 (c	ption	al3800)						
Opening stroke	mm								545							
Mold thickness	mm							220-630,	/730 (	optionc	1)					
Max. turning diameter	mm								1240							
Turntable bearing capacity	t								2.3							
Distance between centers of mold locating holes	mm							560 (c	ption	al550)						
Space between tie bars	mm							10	20x63	30						
Ejector stroke	mm								130							
Ejector force	kN								67x2							
								GE	ENER	AL						
Max. system pressure	MPa								17.5							
Motor power (standard/optional)	kW	2	24/34.	7	2	24/34.	7	2	4/34.	7	11	/16/19	9.6		11/16	
Heating power	kW	14	4.4/16.	8	1	0.9/12	.1		9/10.1		6	5.9/7.8	3		5.5/6.9	9
Machine dimensions (L×W×H)	m							6.97	7x2.2x	2.4						
Machine weight	t								15.5							
Hopper capacity	kg		50			25			25			25			25	
Oil Tank capacity	L								415							

Note: The ejector stroke in the parameters is the limited 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.

# Platen Dimensions



# Platen Dimensions (Optional)









# Specifications of UN550CG-BTP

DESCRIPTION		UN550CG-BTP																	
									١N、	JECTI		NIT							
				TI	he inje	ectio	n unit	ts me	ntion	ed ab	oove c	an k	be co	mbine	ed ra	ndon	nly.		
International specifications	UNIT		1870			1310			930			630			420			300	
		А	В	С	А	В	С	A	В	С	А	В	С	А	В	С	A	В	С
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	cm <sup>3</sup>	834	1071	1338	584	749	962	425	5 518	664	298	371	452	163	247	307	117	159	207
Shot weight(PS)	gram	767	985	1231	538	689	885	39	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			118/14	7	103	8/130	/151	102	2/128	/161		40/17	'5
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	
									CL	.AMPI	NG U	NIT							
Clamping force	kΝ									55	500								
Opening stroke	mm									61	00								
Mold thickness	mm								320-8	300/90	00 (opt	iona	)						
Max. turning diameter	mm									14	20								
Turntable bearing capacity	t									3	8.5								
Distance between centers of mold locating holes	mm								630 (5	50 or (	650 op	otiona	al)						
Space between tie bars	mm									1170	x700								
Ejector stroke	mm									15	50								
Ejector force	kN									110	Dx2								
										GEN	ERAL								
Max. system pressure	MPa									17	7.5								
Motor power (standard/optional)	kW		48.1			48.1			34.7/48	3.1	19.6	/24/	34.7	16	/19.6/	/24		16/19.	6
Heating power	kW	22	2.2/24	1.6	1	6.6/1	9	1	4.4/16	.8	1	0.9/12	2.1		9/10.	1		6.9/7.	8
Machine dimensions (L×W×H)	m								8	.48x2.	.45x2.3	5							
Machine weight	t									29	9.3								
Hopper capacity	kg		50			50			50			25			25			25	
Oil Tank capacity	L									6	60								

Note: The ejector stroke in the parameters is the limited 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 ejector plate of the mold, corresponding to the location of the ejector hole to increase the actual ejector stroke.

# Platen Dimensions



# Platen Dimensions (Optional)











# Specifications of UN750CG-BTP

DESCRIPTION								UN75	50CG	-BTP						
								INJEC	TION	UNIT						
				The i	njectio	n unit	is men	tioned	abov	e can l	be con	nbine	d rand	omly.		
International specifications	UNIT		1870			1310			930			630			420	
		А	В	С	А	В	С	A	В	С	A	В	С	А	В	С
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	cm <sup>3</sup>	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		1	18/147	,	103	3/130/	151	128	8/161/1	87
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	
								CLAM	1PING	UNIT						
Clamping force	kΝ								7500							
Opening stroke	mm								900							
Mold thickness	mm						5	00-1000	/1100	option	al)					
Max. turning diameter	mm								1550							
Turntable bearing capacity	t								5							
Distance between centers of mold locating holes	mm							550/6	30/65	0/710						
Space between tie bars	mm							12	260×79	0						
Ejector stroke	mm								150							
Ejector force	kN								110×2		_					
								GE	ENER	۹L						
Max. system pressure	MPa								17.5							
Motor power (standard/optional)	kW		48.1			48.1		3	4.7/48	.1	19.6	/24/3	84.7	19.6	5/24/3	4.7
Heating power	kW	2	2.2/24	.6		16.6/19	?	14	4.4/16.	8	1	0.9/12	.1		9/10.1	
Machine dimensions (L×W×H)	m							10.05	5×2.8×	2.67						
Machine weight	t			34	.5 (The	weigh	its of di	fferent ir	njectio	n unit c	combine	tions	may va	iry)		
Hopper capacity	kg		50			50			25			25			25	
Oil Tank capacity	L								780							

Note: The ejector stroke in the parameters is the limited 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.

# Platen Dimensions











# Specifications of UN800CG-BTP

\*This model is specially designed for the laptop computer industry.

DESCRIPTION				UN8	00CG-BTP		
				INJE	CTION UNIT		
				Cor	mbination 1		
International specifications	UNIT		630			42	20
		А	В	С	A	L E	3 C
Screw diameter	mm	43	48	53	3	5 4	.3 48
Screw L/D ratio	L/D	22.3	20	20	24	4 2	.0 20
Theoretical shot volume	cm <sup>3</sup>	298	371	452	16	3 24	47 307
Shot weight(PS)	gram	274	341	416	15	0 22	27 283
Injection pressure	MPa	213	171	140	26	0 17	72 138
Max. injection speed (standard/optional)	mm/s		236			23	34
Injection rate (standard)	g/s	315	393	479	20	07 3 <sup>°</sup>	12 389
Screw speed (standard)	rpm		300			30	00
Screw stroke	mm		205			17	70
				CLA	MPING UNIT		
Clamping force	kΝ				8000		
Opening stroke	mm				900		
Mold thickness	mm			Ę	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			1	260×790		
Ejector stroke	mm				150		
Ejector force	kN				110×2		
				G	ENERAL		
Max. system pressure	MPa				17.5		
Motor power (standard/optional)	kW		59.6			4	8.1
Heating power	kW		10.9/12.1			9/	10.1
Machine dimensions (L×W×H)	m			10.0	)5×2.8×2.67		
Machine weight	t		34.5 (The weight	ts of different i	njection unit cor	mbinations mo	ay vary)
Hopper capacity	kg		50			1	25
Oil Tank capacity	L				900		

Platen Dimensions



Machine Dimensions



Note: The ejector stroke in the parameters is the limited 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.

# Wide platen shaft rotation machine/ turntable rotary shaft platen dimensions

# UN160CG-BSP (Shaft rotation machine)



# UN160CG-BSP (Integrated turntable rotary shaft machine)





# UN200CG-BSP (Integrated turntable rotary shaft machine)

1



UN200CG-BSP (Shaft rotation machine)



 $\times$  Note: Other BSP specifications (except the following specifications), please refer to BTP specifications.



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





N200CG-BSP (Integrated turnta	ble rotary sh	aft machine)
otary shaft bearing capacity	kg	150
Rotary shaft stroke	mm	130

# UN260CG-BSP (Shaft rotation machine)

# UN360CG-BSP (Shaft rotation machine)



# UN260CG-BSP (Integrated turntable rotary shaft machine)







UN260CG-BSP (Integrated turnta	ble rotary sł	naft machine)
Rotary shaft bearing capacity	kg	300
Rotary shaft stroke	mm	150



# UN360CG-BSP (Integrated turntable rotary shaft machine)





UN360CG-BSP (Shaft rotation machine)				
Rotary shaft bearing capacity	kg	500		
Rotary shaft stroke	mm	150		



UN360CG-BSP (Integrated turnto	ıble rotary sl	naft machine)
Rotary shaft bearing capacity	kg	500
Rotary shaft stroke	mm	150

# UN550CG-BSP (Shaft rotation machine)



# UN550CG-BSP (Integrated turntable rotary shaft machine)







UN550CG-BSP (Integrated turntal	ole rotary s	haft machine)
Rotary shaft bearing capacity	kg	500/700
Rotary shaft stroke	mm	170

# 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
	iA								
UNIQUE G-BIP-E	iB								
LINDOOCG-RTD-F	iA								
UN200CO DIF E	iB								
LINI260CG-BTP-F	iA								
UN200CO BIF E	iB								
	iA								
UNSUCCO BIF E	iB								
	iA								
UNDDUCG-BIP-E	iB								
	iA								
UN/50CG-BIP-E	iB								
	iA								
UNRUUCG-BIP-E	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.

# Diversified combinations of modular injection units



### Paralle INJECTION UNIT injection uni Specifications UNIT 70 110 190 300 420 630 930 1310 1870 3100 3500 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 60/68/76 68/76/84 76/84/92 iΑ UN160CG-BTP iB iA UN200CG-BTP UN280CG-BTP UN360CG-BTP UN550CG-BTP UN750CG-BTP iΑ UN800CG-BTP

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

DESCRIPTION	Standard Optiona
CLAMPING UNIT	
High-rigidity platen with balanced force (BFC technology)	•
Electrical servo turntable	•
Magnetically levitated turntable (MLT technology, 160T/260T)	•
Turntable water manifold (1607/2007: 1 set: 260-5507: 2 sets: 7507/8007: 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	0
Hydraulic circuit control of double ejectors	0
Hydraulic servo turntable	0
Hydraulic non-servo turntable	0
10-pin electrical connector for turntable	0
Multiple sets of air blow	0
Euromap 2 mold mounting hole	0
Magnetic platen	0
Mold thermal insulation	0
INJECTION UNIT	
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 of rolling hopper device	
Screw speed detection	
Lipear quide rail for carriage	•
Manual centralized lubrication for injection unit	•
High-mixing non-stick screw	0
Three-component and multi-component injection molding	0
Barrel unit for TPE	0
Barrel unit for TPU	0
Barrel unit for PC	0
Special or adjustable mold locating hole center distance	0
Feed port temperature detection	0
Ceramic heater band	0
Infrared heater band	0
Nano thermal insulation function	0
Injection unit for silicone	0
Electrical injection unit	0
Gas assisted injection	0
Transducer for carriage position measurement	0
Spring nozzle	0
Extended nozzle	0
HYDRAULIC SYSTEM	
	•
High-precision real-time bypass oil filter	•
Imported branded bydraulic valve	•
Imported branded hydraulic seal	•
Differential fast mold closing device (160T/200T)	•

### Note: "•": standard "O": optional

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	0
High-response servo injection system with accumulator	0
Larger plasticizing motor	0
Independent hydraulic sequential valve	0
Pneumatic sequential valve	0
Hydraulic core-pull on movable platen (or fixed platen)	0
Hydraulic oil level detection	0
Oil preheating	0
Self-sealing suction filter	0
Synchronous control (mold opening parallel to plasticizing/ejection/ core pull)	0
Stronger power	0
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	•
Electrical protection of nozzle purge guard	•
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	•
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	0
Euromap 12 plug for robot	0
Euromap 6/ plug for robot	0
Core pull and ejector setting in controller	0
Integrated hot runner control	0
Air-assisted injection device	0
Display of machine energy consumption statistics	0
Central (networking) monitoring system	0
Characiana navyana superlu valtanana	0
LE"/22" LID diaplay	0
IS722 HD display	0
Leveling pad	•
A tool kit and a precise filter element	•
Mold mounting screw	•
Stainless steel honner	•
Mold clamp	0
Autoloader	0
Glass tube flowmeter	0
Drver	0

# THINK TECH FORWARD

