THINK TECH FORWARD

Designed by YIZUMI, May 2023

YIZUMI

CA-P

1000T-1900T

HIGH-END MULTI-COMPONENT
INJECTION MOLDING MACHINE FOR CAR LAMP

Stable+ Flexible Combination

Yizumi Precision Molding Technology Co., Ltd.

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THINK TECH FORWARD

PRODUCT DETAILS

Strive to be the best choice for the headlight industry

Dedicated to the extreme, CA series leads the best value experience!

Run-through decorative grille frame

Run-through decorative taillight frame

Automotive interior plating component

Decorative taillight frame

Taillight cover 1

Taillight cover 2

Taillight cover 3

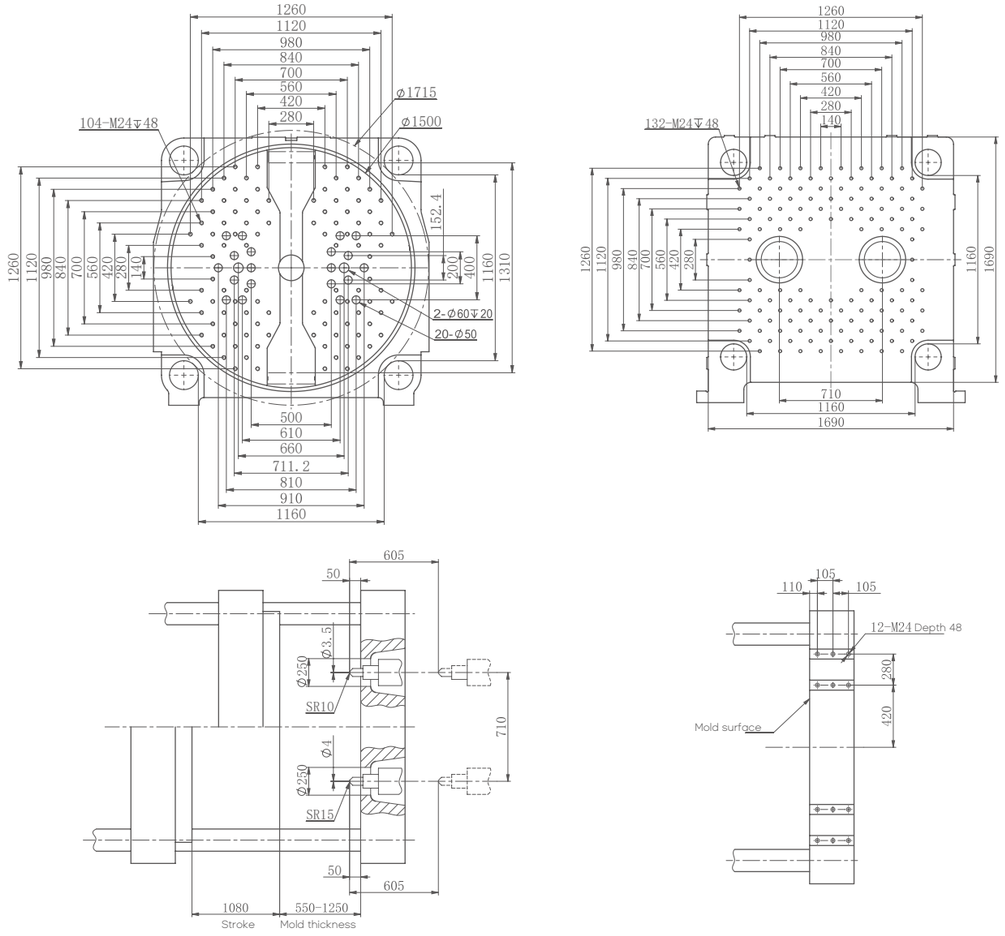
Taillight cover 4

Specifications of UN1000CA-NTP

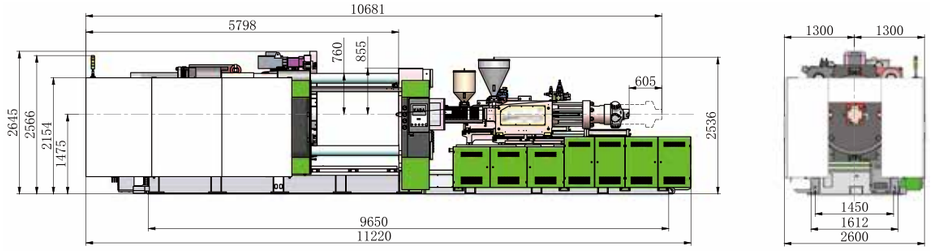
DESCRIPTION		UN1000CA-NTP											
INJECTION UNIT													
		The injection units can be combined randomly.											
International specifications	UNIT	3100			1870			1310			930		
		SA	A	B	SA	A	B	SA	A	B	SA	A	B
Screw diameter	mm	60	68	76	53	60	68	48	53	60	43	48	53
Screw L/D ratio	L/D	22.6	22.3	20	22.6	22.6	20	22.6	22.6	20	22	22	20
Theoretical shot volume	cm³	1074	1380	1724	650	834	1071	479	584	749	341	425	518
Shot weight (PS)	gram	988	1270	1586	598	767	985	441	538	689	314	391	477
Injection pressure	MPa	292	227	182	288	225	175	289	237	185	274	220	180
Max. injection speed	mm/s	92			90			101			132		
Injection rate	g/s	240	308	385	182	233	299	167	204	261	177	220	268
Screw speed	rpm	128			151			163			224		
Screw stroke	mm	380			295			265			235		
CLAMPING UNIT													
Clamping force	kN	10000											
Opening stroke	mm	1080											
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	59.6			48.1			48.1			48.1		
Heating power	kW	22.2	26.4		16.6	22.2		14.4	16.6		10.9	14.4	
Machine dimensions (L×W×H)	m	11.22×2.60×2.65											
Machine weight	t	50(The weights of different injection unit combinations may vary)											
Hopper capacity	kg	100			100			50			50		
Oil tank capacity	L	1300											

Note: 1. The ejector stroke 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 (UN1000CA-NTP. 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



Machine Dimensions

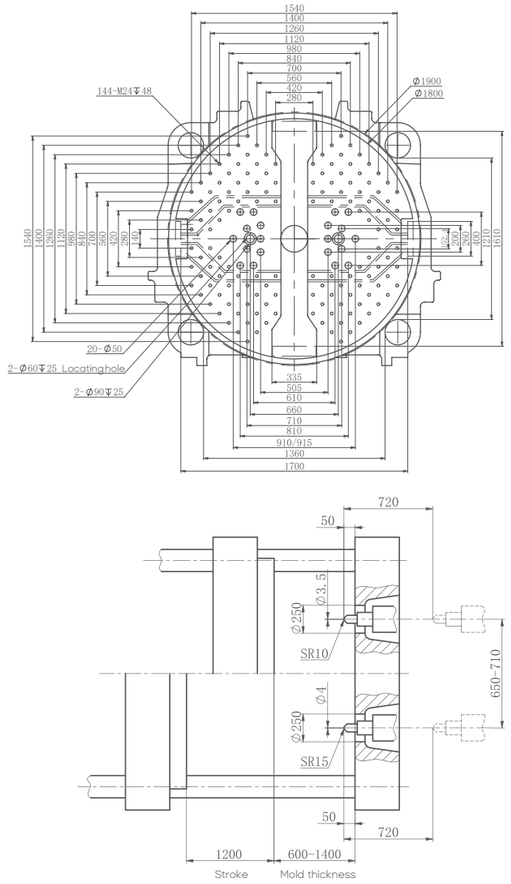


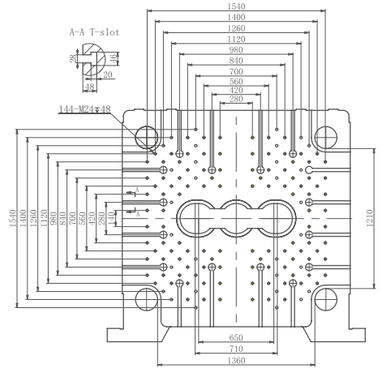
Specifications of UN1200CA-NTP

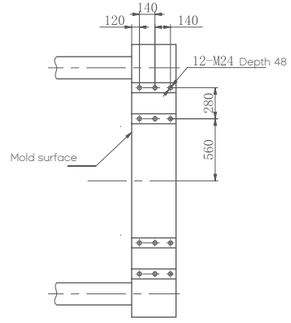
DESCRIPTION		UN1200CA-NTP														
INJECTION UNIT																
		The injection units mentioned above can be combined randomly.														
International specifications	UNIT	3500			3100			1870			1310			930		
		SA	A	B	SA	A	B	SA	A	B	SA	A	B	SA	A	B
Screw diameter	mm	68	76	84	60	68	76	53	60	68	48	53	60	43	48	53
Screw L/D ratio	L/D	22.3	22.1	20	22.6	22.3	20	22.6	22.6	20	22	22.6	20	22	22	20
Theoretical shot volume	cm³	1380	1724	2106	1074	1380	1724	650	834	1071	479	584	749	341	425	518
Shot weight (PS)	gram	1270	1586	1937	988	1270	1586	598	767	985	441	538	689	314	391	477
Injection pressure	MPa	256	205	168	292	227	182	288	225	175	289	237	185	274	220	180
Max. injection speed	mm/s	93			92			90			101			132		
Injection rate	g/s	311	388	474	240	308	385	182	233	299	167	204	261	177	220	268
Screw speed	rpm	131			128			151			163			224		
Screw stroke	mm	380			380			295			265			235		
CLAMPING UNIT																
Clamping force	kN	12000														
Opening stroke	mm	1200														
Mold thickness	mm	600-1400														
Max. turning diameter	mm	1900														
Turntable bearing capacity	t	9														
Distance between centers of mold locating holes	mm	710/650(Single injection unit can move to central area)														
Space between tie bars	mm	1360×1210														
Ejector stroke	mm	150														
Ejector force	kN	166×2														
GENERAL																
Max. system pressure	MPa	17.5														
Motor power	kW	67.7			59.6			48.1			48.1			48.1		
Heating power	kW	31	33		22.2	26.4		16.6	22.2		14.4	16.6		10.9	14.4	
Machine dimensions (L×W×H)	m	12.2×3.05×2.95														
Machine weight	t	76(The weights of different injection unit combinations may vary)														
Hopper capacity	kg	100			100			100			100			50		
Oil tank capacity	L	1300														

Note: 1. The ejector stroke 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 (UN1200CA-NTP. 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.

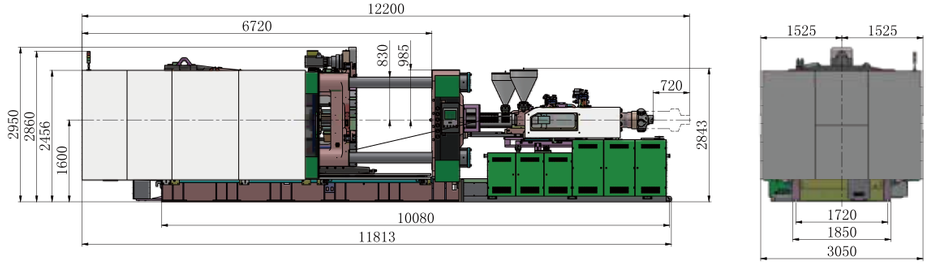
Platen Dimensions







Machine Dimensions

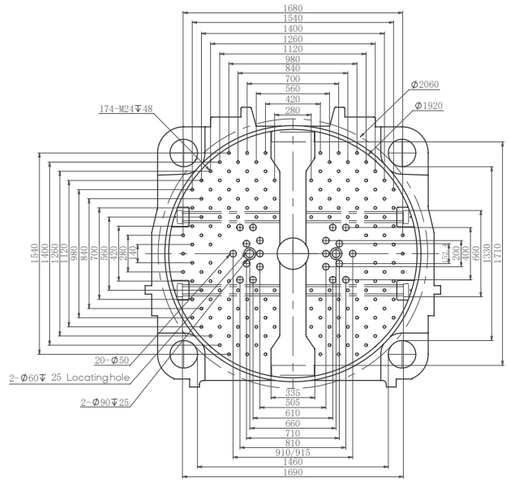


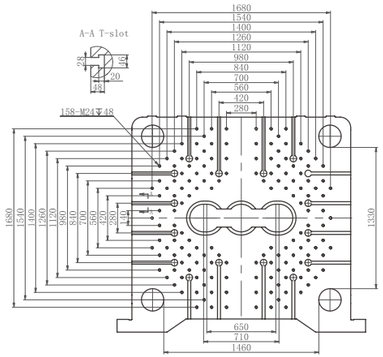
Specifications of UN1400CA-NTP

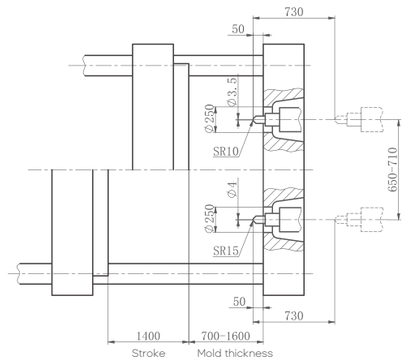
DESCRIPTION		UN1400CA-NTP														
INJECTION UNIT																
		The injection units mentioned above can be combined randomly.														
International specifications	UNIT	3500			3100			1870			1310			930		
		SA	A	B	SA	A	B	SA	A	B	SA	A	B	SA	A	B
Screw diameter	mm	68	76	84	60	68	76	53	60	68	48	53	60	43	48	53
Screw L/D ratio	L/D	22.3	22.1	20	22.6	22.3	20	22.6	22.6	20	22	22.6	20	22	22	20
Theoretical shot volume	cm³	1380	1724	2106	1074	1380	1724	650	834	1071	479	584	749	341	425	518
Shot weight (PS)	gram	1270	1586	1937	988	1270	1586	598	767	985	441	538	689	314	391	477
Injection pressure	MPa	256	205	168	292	227	182	288	225	175	289	237	185	274	220	180
Max. injection speed	mm/s	93			92			90			101			132		
Injection rate	g/s	311	388	474	240	308	385	182	233	299	167	204	261	177	220	268
Screw speed	rpm	131			128			151			163			224		
Screw stroke	mm	380			380			295			265			235		
CLAMPING UNIT																
Clamping force	kN	14000														
Opening stroke	mm	1400														
Mold thickness	mm	700-1600														
Max. turning diameter	mm	2060														
Turntable bearing capacity	t	11														
Distance between centers of mold locating holes	mm	710/650(Single injection unit can move to central area)														
Space between tie bars	mm	1460×1330														
Ejector stroke	mm	150														
Ejector force	kN	166×2														
GENERAL																
Max. system pressure	MPa	17.5														
Motor power	kW	67.7			59.6			48.1			48.1			48.1		
Heating power	kW	31	33		22.2	26.4		16.6	22.2		14.4	16.6		10.9	14.4	
Machine dimensions (L×W×H)	m	12.9×3.45×3.3														
Machine weight	t	96(The weights of different injection unit combinations may vary)														
Hopper capacity	kg	100			100			100			100			50		
Oil tank capacity	L	1600														

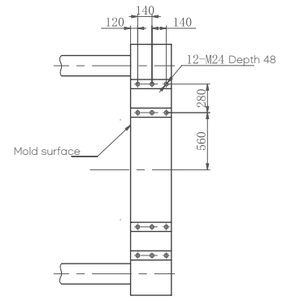
Note: 1. The ejector stroke is the limited distance of the machine's standard ejector pin protruding out of the mold surface of the turntable. The customer can install an ejector extension (UN1400CA-NTP. The length of the ejector extension shall not exceed 100mm) on the ejection plate of the mold, corresponding to the location of the ejector hole to increase the actual ejector stroke.

Platen Dimensions

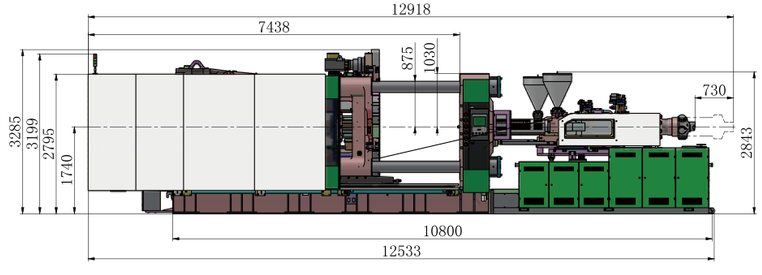


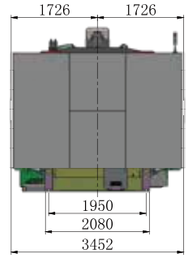






Machine Dimensions



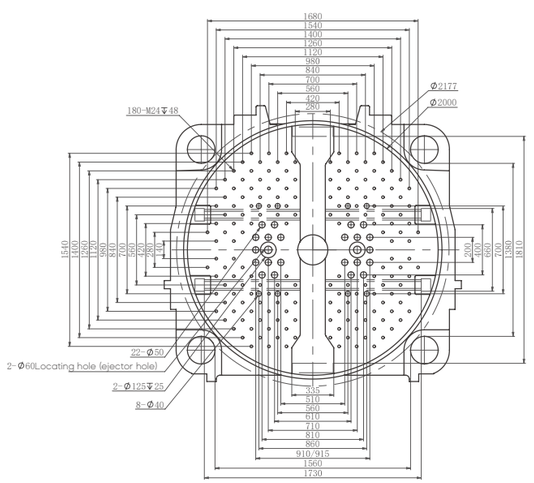


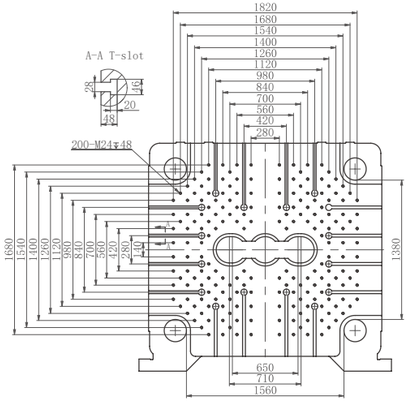
Specifications of UN1600CA-NTP

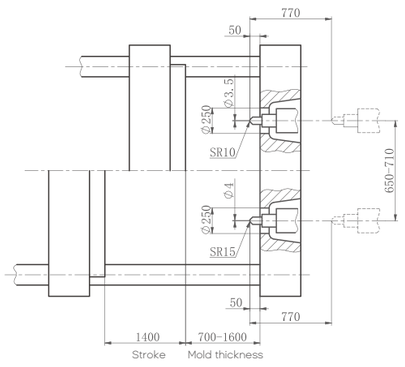
DESCRIPTION		UN1600CA-NTP																	
INJECTION UNIT																			
		The injection units mentioned above can be combined randomly.																	
International specifications	UNIT	5000			3500			3100			1870			1310			930		
		SA	A	B	SA	A	B	SA	A	B	SA	A	B	SA	A	B	SA	A	B
Screw diameter	mm	76	84	92	68	76	84	60	68	76	53	60	68	48	53	60	43	48	53
Screw L/D ratio	L/D	21.9	21.9	20	22.3	22.1	20	22.6	22.3	20	22.6	22.6	20	22	22.6	20	22	22	20
Theoretical shot volume	cm^3	1859	2271	2724	1380	1724	2106	1074	1380	1724	650	834	1071	479	584	749	341	425	518
Shot weight (PS)	gram	1710	2089	2506	1270	1586	1937	988	1270	1586	598	767	985	441	538	689	314	391	477
Injection pressure	MPa	271	222	185	256	205	168	292	227	182	288	225	175	289	237	185	274	220	180
Max. injection speed	mm/s	104			93			92			90			101			132		
Injection rate	g/s	436	533	639	311	388	474	240	308	385	182	233	299	167	204	261	177	220	268
Screw speed	rpm	137			131			128			151			163			224		
Screw stroke	mm	410			380			380			295			265			235		
CLAMPING UNIT																			
Clamping force	kN	16000																	
Opening stroke	mm	1400																	
Mold thickness	mm	700-1600																	
Max. turning diameter	mm	2177																	
Turntable bearing capacity	t	12																	
Distance between centers of mold locating holes	mm	710/650(Single injection unit can move to central area)																	
Space between tie bars	mm	1560×1380																	
Ejector stroke	mm	200																	
Ejector force	kN	166×2																	
GENERAL																			
Max. system pressure	MPa	17.5																	
Motor power	kW	107.7			67.7			59.6			48.1			48.1			48.1		
Heating power	kW	33	36		31	33		22.2	26.4		16.6	22.2		14.4	16.6		10.9	14.4	
Machine dimensions (L×W×H)	m	12.9×3.45×3.3																	
Machine weight	t	108(The weights of different injection unit combinations may vary)																	
Hopper capacity	kg	100			100			100			100			100			50		
Oil tank capacity	L	1600																	

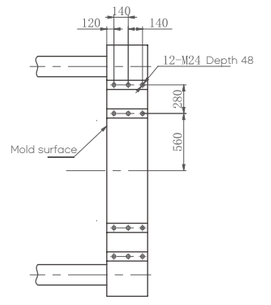
Note: 1. The ejector stroke is the limited distance of the machine's standard ejector pin protruding out of the mold surface of the turntable. The customer can install an ejector extension (UN1600CA-NTP. The length of the ejector extension shall not exceed 100mm) on the ejection plate of the mold, corresponding to the location of the ejector hole to increase the actual ejector stroke.

Platen Dimensions

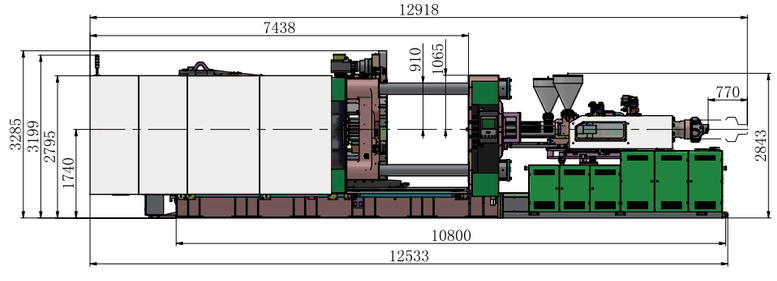


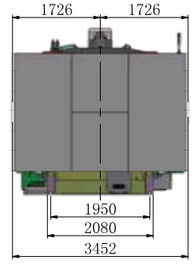






Machine Dimensions



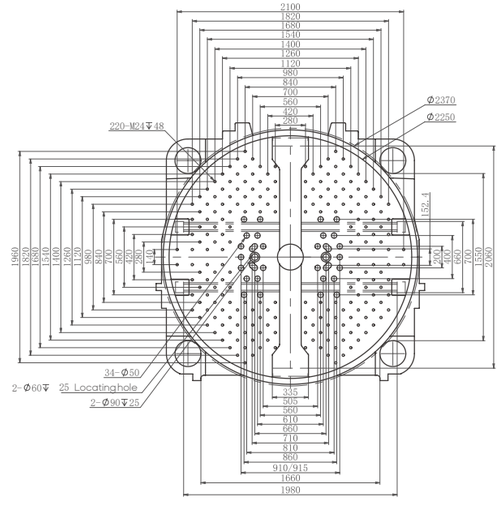


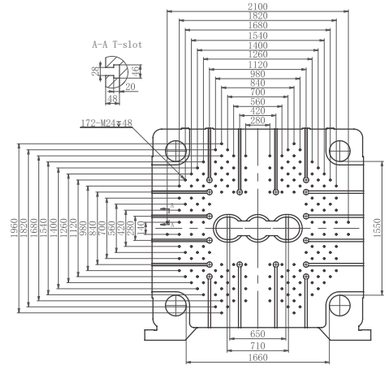
Specifications of UN1900CA-NTP

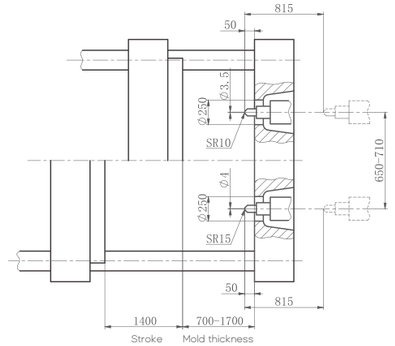
DESCRIPTION		UN1900CA-NTP																					
INJECTION UNIT																							
The injection units mentioned above can be combined randomly.																							
International specifications	UNIT	6900			5000			3500			3100			1870			1310			930		
		SA	A	B	SA	A	B	SA	A	B	SA	A	B	SA	A	B	SA	A	B	SA	A	B
Screw diameter	mm	84	92	100	76	84	92	68	76	84	60	68	76	53	60	68	48	53	60	43	48	53
Screw L/D ratio	L/D	21.9	21.9	20	21.9	21.9	20	22.3	22.1	20	22.6	22.3	20	22.6	22.6	20	22	22.6	20	22	22	20
Theoretical shot volume	cm^3	2494	2991	3534	1859	2271	2724	1380	1724	2106	1074	1380	1724	650	834	1071	479	584	749	341	425	518
Shot weight (PS)	gram	2294	2752	3252	1710	2089	2506	1270	1586	1937	988	1270	1586	598	767	985	441	538	689	314	391	477
Injection pressure	MPa	278	232	196	271	222	185	256	205	168	292	227	182	288	225	175	289	237	185	274	220	180
Max. injection speed	mm/s	99			104			93			92			90			101			132		
Injection rate	g/s	504	604	714	436	533	639	311	388	474	240	308	385	182	233	299	167	204	261	177	220	268
Screw speed	rpm	120			137			131			128			151			163			224		
Screw stroke	mm	450			410			380			380			295			265			235		
CLAMPING UNIT																							
Clamping force	kN	19000																					
Opening stroke	mm	1400																					
Mold thickness	mm	700-1700																					
Max. turning diameter	mm	2370																					
Turntable bearing capacity	t	15																					
Distance between centers of mold locating holes	mm	710/650(Single injection unit can move to central area)																					
Space between tie bars	mm	1660×1550																					
Ejector stroke	mm	250																					
Ejector force	kN	166×2																					
GENERAL																							
Max. system pressure	MPa	17.5																					
Motor power	kW	119.2			107.7			67.7			59.6			48.1			48.1			48.1		
Heating power	kW	36	40	40	33	36	36	31	33	33	22.2	26.4	26.4	16.6	22.2	22.2	14.4	16.6	16.6	10.9	14.4	14.4
Machine dimensions (L×W×H)	m	13.8×3.66×3.5																					
Machine weight	t	131(The weights of different injection unit combinations may vary)																					
Hopper capacity	kg	100			100			100			100			100			50			50		
Oil tank capacity	L	1800																					

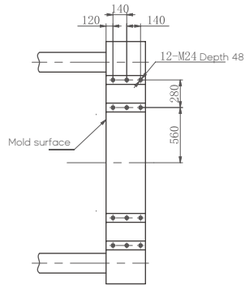
Note: 1. The ejector stroke is the limited distance of the machine's standard ejector pin protruding out of the mold surface of the turntable. The customer can install an ejector extension (UN1900CA-NTP. The length of the ejector extension shall not exceed 100mm) on the ejection plate of the mold, corresponding to the location of the ejector hole to increase the actual ejector stroke.

Platen Dimensions

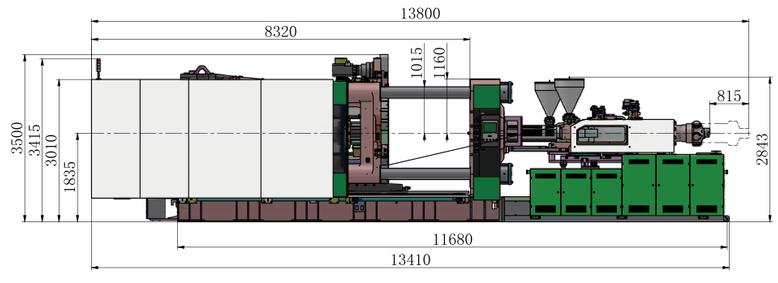


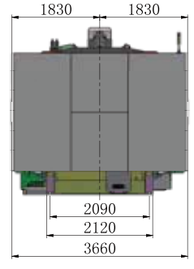






Machine Dimensions

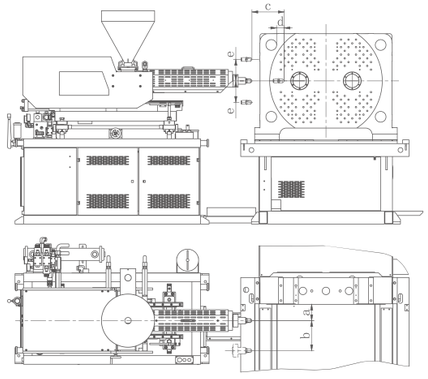




L/V Independent Injection Unit

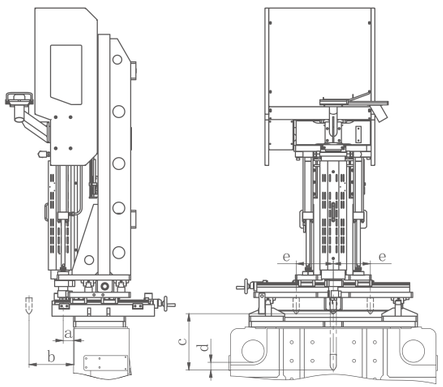
L-type injection unit configuration

Specifications	a/mm	b/mm	c/mm	d/mm	e/mm
IU190L	70	Standard 100 Optional 300 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.	1000-1900 CA-NTP：700	1000CA-NTP:100 1200CA-NTP:100 1400CA-NTP:100 1600CA-NTP:100 1900CA-NTP:100	±5
IU295L	80				
IU420L	80				
IU604L	80				
IU895L	110				
IU1269L	110				
IU1885L	120				



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.	1000CA-NTP:350 1400-1900 CA-NTP:450	1000-1900 CA-NTP：50	±5
IU295V	80				
IU420V	80				
IU604V	80				
IU895V	95				



*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.

L/V Independent Injection Unit

DESCRIPTION		L/V Independent Injection Unit											
INJECTION UNIT													
International specifications	UNIT		190			295			420			604	
		SA	A	B	SA	A	B	SA	A	B	SA	A	B
Screw diameter	mm	19	22	26	26	30	35	30	35	43	35	40	48
Screw L/D ratio	L/D	20	20	20	24	24	20	24	24	20	22.3	22.3	20
Theoretical shot volume	cm^3	38	51	72	88	117	159	120	164	247	197	257	371
Shot weight (PS)	gram	35	47	66	81	107	146	111	151	227	181	237	341
Injection pressure	MPa	373	373	267	337	253	186	350	257	170	307	235	163
Max. injection speed	mm/s		206			107			118			99	
Injection rate	g/s	54	72	101	52	70	95	77	104	158	88	114	165
Screw speed	rpm		205			205			205			170	
Screw stroke	mm		135			165			170			205	
GENERAL													
Max. system pressure	MPa	17.5											
Motor power	kW	19.6											
Heating power	kW	3.5	4.8	4.8	4.8	6.9	6.9	6.9	9	9	10.9		

DESCRIPTION		L/V Independent Injection Unit								
INJECTION UNIT										
International specifications	UNIT	895			1269			1885		
		SA	A	B	SA	A	B	SA	A	B
Screw diameter	mm	43	48	53	48	53	60	53	60	68
Screw L/D ratio	L/D	22	22	20	22.6	22.6	20	22.6	22.6	20
Theoretical shot volume	cm^3	341	425	519	479	585	749	650	834	1071
Shot weight (PS)	gram	314	391	477	441	538	689	598	767	986
Injection pressure	MPa	263	211	173	265	217	169	290	226	176
Max. injection speed	mm/s		137			110			82	
Injection rate	g/s	183	228	279	183	223	286	166	213	274
Screw speed	rpm		224			163			140	
Screw stroke	mm		235			265			295	
GENERAL										
Max. system pressure	MPa	17.5								
Motor power	kW	48.1								
Heating power	kW	10.9	14.4	14.4	14.4	16.6	16.6	16.6	22.2	22.2

Modular combination of injection unit

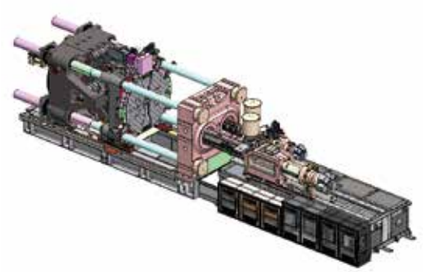
P series

IMM：CA-NTP series

Combinations：NTP/V、NTP/L、NTP/V/V、NTP/L/V

※ Note:

As to the specifications of L/V independent injection unit, please refer to A5.



CA-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

P/L

Three parallel injection units + L-type injection unit at back door side

Combination of hydraulic injection units

Parallel injection unit	INJECTION UNIT													
P configuration	UNIT	70	110	190	300	420	630	930	1310	1870	3100	3500	5000	6900
Screw Diameter	mm	19/22/26	22/26/30	26/30/35	30/35/40	35/40/43	40/48/53	43/48/53	48/53/60	53/60/68	60/68/76	68/76/84	76/84/92	84/92/100
UN1000CA-NTP	iA													
	iB													
UN1200CA-NTP	iA													
	iB													
UN1400CA-NTP	iA													
	iB													
UN1600CA-NTP	iA													
	iB													
UN1900CA-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.

Hybrid Series- CA-NTP-E

※ Note: Optional electrical injection units are available for the CA-NTP machine.

Highlights

Equipped with hydraulically controlled clamping unit 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.

Combination of electric injection units

Parallel injection unit	INJECTION UNIT												
P configuration	UNIT	80	170	200	320	430	670	930	1350	1930	2700	3700	4800
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	84/92/100
UN1000CA-NTP-E	iA												
	iB												
UN1200CA-NTP-E	iA												
	iB												
UN1400CA-NTP-E	iA												
	iB												
UN1600CA-NTP-E	iA												
	iB												
UN1900CA-NTP-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) As to the specifications of Parallel electric injection unit, please refer to FF series catalogue.

THINK
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