THINK TECH FORWARD

Designed by YIZUMI, June 2025

YIZUMI

A6-EU

60T-700T

NEXT-GEN A6-EU SERIES ADVANCED AND
INTELLIGENT INJECTION MOLDING MACHINE

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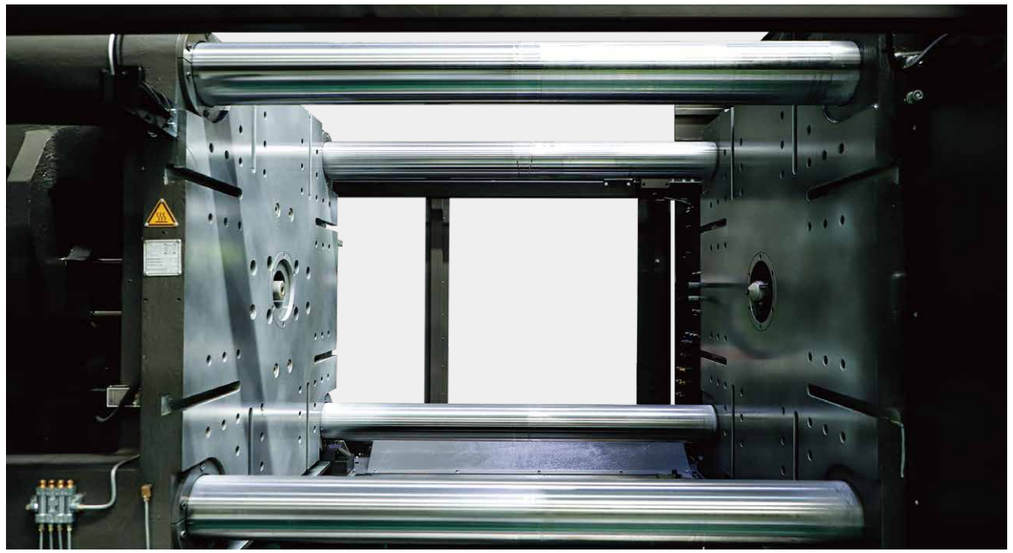
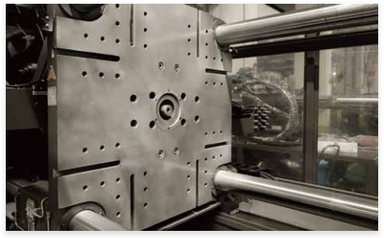
Clamping Unit



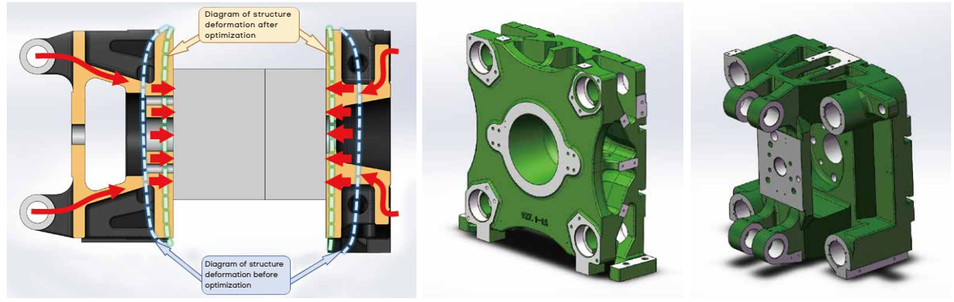
EUROMAP 2-based ejector hole pattern and mold locating hole

- Layout of the ejector holes on movable platen is adjusted according to EUROMAP 2. Mold locating holes on movable platen and fixed platen are designed according to EUROMAP 2.



Dual pressure-center platens

The A6-EU series has introduced a new upgrade with dual pressure-center platens, both fixed and movable platens utilizing YIZUMI's patented pressure-center structure. This design, optimized through simulation, provides excellent rigidity, reduces deformation, and supports better product molding.



- **Increased molding precision** —— optimized design decreases overall deformation of fixed and movable platens by 10% to 25%, resulting in reduced stress on platens during clamping and significantly less cavity deformation.
- **Improved utilization of clamping force** —— effectively addresses problems like flash and low product consistency, while allowing the high-strength, low-deformation structure to employ a lower clamping force for stable clamping.
- **Extended service life of mold and equipment** —— enhanced strength, lightweight structure, and reduced clamping force minimizes wear on molds and machines, resulting in less maintenance and longer service life.
- With the "Intelligent clamping force optimization" function, the optimal clamping force can be sustained to make operation more effortless, reliable, and stable.

* The data above were acquired by testing in YIZUMI, only for your reference.
YIZUMI reserves the right of final interpretation upon disputes and ambiguities.

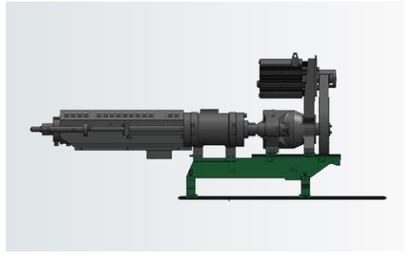
Injection Unit

Upgraded injection unit

- Digital proportional control achieves fast and precise control of plasticizing back pressure.
- The innovative "dual-drive system" enables parallel electric plasticizing, significantly reducing cycle time.

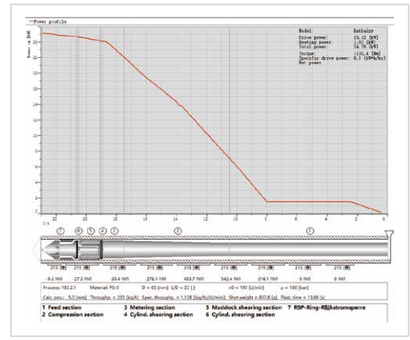
Integral dual-layer support for injection unit

- A6-EU series features integral dual-layer support for injection unit as a standard configuration, with dual linear guides for both carriage and injection.
- Lower resistance in injection process improves energy efficiency; faster response, more accurate control.



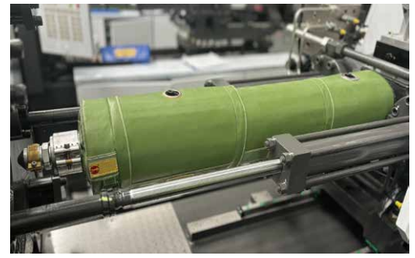
New low-shear high-mixing plasticizing components

- A6-EU series is equipped with new low-shear high-mixing plasticizing components as standard, greatly enhancing wear resistance.
- The screw is designed with simulation technology to optimize plasticizing performance.
- The structure optimization of screw tip, check ring and screw washer ensures higher injection weight repeatability.
- Energy-efficient and high-performance screw and barrel components utilizes ceramic heater band for efficient and stable heating.



Fully enclosed aerogel insulation device

- A6-EU series introduces an upgraded insulation system with a fully enclosed design and optimized structure, utilizing aerogel material with exceptional thermal insulation capabilities. This upgrade extends the longevity and significantly improves energy efficiency.



Movable nozzle guard

YIZUMI's patented nozzle guard is equipped with electrical interlock to enhance safety, avoiding burn injuries to operator.

Independent PID temperature control for nozzle

Delivers accurate control of nozzle temperature.

Closed-loop temperature detection for feeding port

Controller monitors feeding port temperature in real time, and provides dynamical adjustment and over-temperature alarm.

Transducer control for injection carriage

Controller precisely controls injection carriage stroke.

Protection function for injection unit

Injection chamber pressure relief function for enhanced safety and protects operators.

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Hydraulic System

New servo system

- Proven by years of practical application and higher configured, new servo system is stable, reliable and durable and characterized by high efficiency, energy saving, low noise, strong power and fast response.
- Dual-motor and dual-pump combination design for stronger power.

Professional brand-name motor

High-pressure gear pump

Servo drive

New hydraulic oil circuit design

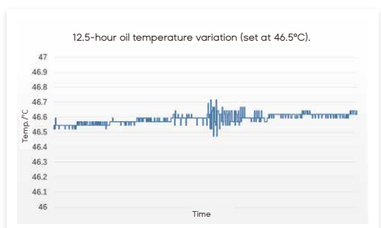
The optimized hydraulic oil circuit design reduces pressure loss in hydraulic oil, for greater energy efficiency.

Low-friction oil seal

Reduces friction heat and minimizes energy loss.

Closed-loop oil temperature control

- Independent closed-loop oil temperature control function offers improved system stability.
- This function ensures precise control over the hydraulic oil temperature, achieving an accuracy of ±0.5°C.



Ejector control

- Standard feature of check valve maintains ejector cylinder position to prevent ejector plate retraction.

Mold controlled by cooling water

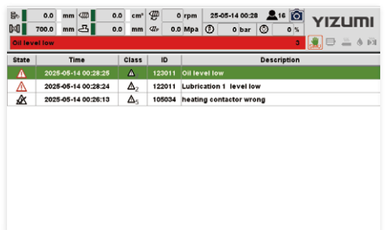
- UN60A6-EU to UN480A6-EU: One set of 8-tube water flow meter.
- UN580A6-EU to UN700A6-EU: Two sets of 6-tube water flow meters.
- Visual control of cooling water flow.

Enhanced safety

- Explosion-proof chain for HP hydraulic hose as a standard feature.
- Hydraulic circuits conforming to CE safety standards ensure hydraulic safety.
- Directional valves equipped with guaranteed accuracy and durability.

Automatic oil level alarm

Automatic low oil level alarm prevents gas from being sucked in due to low oil level, avoiding consequent instability of the hydraulic circuit.



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Control System

KEBA-i2985 controller with user-friendly human-machine interface

Fast response, enhanced functionality, larger screen size, and user-friendly operation.

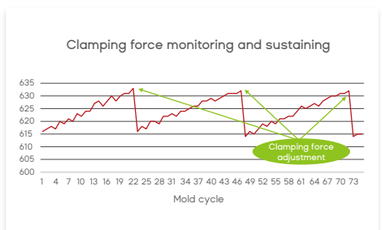
Intelligent mold opening

- Intelligent mold-opening function is a standard feature, which can be activated and adjusted based on production requirements.
- Mold-opening parameter setting is simplified, requiring only two settings: the start and end points.
- Automatic generation and optimization of parameters for mold-opening process, smoother operation.
- Precise mold-opening positioning, achieving accuracy of 0-1mm.

Intelligent clamping force management system

- A6-EU series is equipped with **intelligent clamping force management system**, YIZUMI's advanced intelligent R&D innovation.
- **Intelligent clamping force management system** proactively identifies and sets optimal clamping force, monitors and intelligently optimizes clamping force parameters, enabling users to efficiently and conveniently operate the injection molding machine while improving the stability of product quality.
- Standard functions of intelligent clamping force management system:

  ① Clamping force monitoring
  ② Intelligent clamping force sustaining
  ③ Pre-releasing of clamping force



*The curve illustrates the "Intelligent Clamping Force Sustaining" feature, showcasing its automatic adjustments in response to the gradual rise in clamping force due to mold expansion from temperature increases during continuous production.

Intelligent energy management system

A6-EU series is equipped with intelligent energy management system, enabling energy consumption data to be digitized and visualized.

- 24-hour energy consumption and production statistics
- Energy consumption data of the mold is visually represented in real-time curves, serving as a reference for energy-saving and parameter optimization.
- Users can input the electricity unit price for online measurement and display of energy cost for each product.
- It shows real-time energy consumption changes, allowing a clear understanding of the relationship between each motion and energy use, which facilitates the optimization of process parameters.

User-friendly maintenance function

- A6-EU series is equipped with preventive monitoring and maintenance function for key components, which provides timely reminders for machine maintenance and predicts potential issues, thus extending machine's service life.
- It offers intelligent real-time monitoring and detection for key components and indicators such as screw drive shaft bearings temperature, injection end position, clamping force, and the hydraulic system. With advanced algorithms, it identifies and alerts for potential risks, while also providing troubleshooting guidance.

Enhanced electrical protection system (control system)

- Enhances electrical safety protection performance.

User-friendly program function

- ODC free programing allows adjustment sequence actions without modifying application software code.

Industrial communication support

Standard feature of OPC UA communication interfaces enables data exchange between injection molding machine and production management system.

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Specifications of UN60—120A6-EU

Description	UNIT	UN60A6-EU			UN90A6-EU						UN120A6-EU								
International specification		310/600			310/900			445/900			310/1200			445/1200			640/1200		
Injection Unit																			
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Theoretical shot volume	cm³	117	159	207	117	159	207	164	247	308	117	159	207	164	247	308	298	371	452
Shot weight (PS)	g	107	146	191	107	146	191	150	227	283	107	146	191	150	227	283	274	341	416
	oz	3.8	5.2	6.7	3.8	5.2	6.7	5.3	8.0	10.0	3.8	5.2	6.7	5.3	8.0	10.0	9.7	12.0	14.7
Screw diameter	mm	30	35	40	30	35	40	35	43	48	30	35	40	35	43	48	43	48	53
Injection pressure	MPa	267	196	150	267	196	150	272	180	145	267	196	150	272	180	145	215	172	141
Injection rate	g/s	69.6	94.7	123.7	84.9	115.5	150.9	83.4	125.9	156.9	106.1	144.4	188.6	104.3	157.4	196.2	132.1	164.6	200.7
Screw L:D ratio	-	24:1	20:1	20:1	24:1	20:1	20:1	24:1	20:1	20:1	24:1	20:1	20:1	24:1	20:1	20:1	22.3:1	20:1	20:1
Max. injection speed	mm/s	107	107	107	131	131	131	94	94	94	163	163	163	118	118	118	99	99	99
Screw stroke	mm	165	165	165	165	165	165	170	170	170	165	165	165	170	170	170	205	205	205
Screw speed (electric)	r/min	0-350	0-350	0-350	0-350	0-350	0-350	0-320	0-320	0-320	0-350	0-350	0-350	0-320	0-320	0-320	0-300	0-300	0-300
Clamping Unit																			
Clamping force	kN	600			900			900			1200			1200			1200		
Space between tie bars (WxH)	mmxmm	360x360			410x410			410x410			470x470			470x470			470x470		
Mold thickness (min.-max.)	mm	130-380			145-450			145-450			160-520			160-520			160-520		
Opening stroke	mm	330			360			360			420			420			420		
Max. daylight	mm	710			810			810			940			940			940		
Ejector force	kN	29			44			44			44			44			44		
Ejector storke	mm	100			120			120			140			140			140		
Ejector number	-	5			5			5			5			5			5		
Power Unit																			
Max. system pressure	MPa	18.5			18.5			18.5			18.5			18.5			18.5		
Pump motor power	kW	17.8			21.4			21.4			25.2			25.2			25.2		
Heating power	kW	6.9	6.9	7.8	6.9	6.9	7.8	9	9	10.1	6.9	6.9	7.8	9	9	10.1	10.9	10.9	12.1
Plasticizing motor power	kW	17			17			20.4			17			20.4			22.3		
Number of temp control zones	PCS	5			5			5			5			5			5		
General																			
Dry cycle time	s	1.8			2.0			2.0			2.4			2.4			2.4		
Oil tank capacity	L	150			155			155			220			220			220		
Machine dimensions (LxWxH)	mxmxm	4.29×1.37×1.92			4.48×1.43×1.98			4.48×1.43×1.98			4.98×1.52×2.08			4.98×1.52×2.08			4.98×1.52×2.08		
Machine weight	kg	3400			3940			4000			4840			4900			5000		

Note:

1. Theoretical shot volume = barrel sectional area × injection stroke
2. Shot weight = theoretical shot volume × 0.92 (GPPS)
3. Due to improvement, specifications may be changed without prior notice.
4. Please inform us if you need to produce parts made from engineering plastics like PVC, PC, and PMMA or if you have other special requirements.

Specifications of UN160—220A6-EU

Description	UNIT	UN160A6-EU									UN220A6-EU								
International specification		445/1600			640/1600			945/1600			640/2200			945/2200			1340/2200		
Injection Unit																			
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Theoretical shot volume	cm^3	164	247	308	298	371	452	425	518	664	298	371	452	425	518	664	585	749	962
Shot weight (PS)	g	150	227	283	274	341	416	391	477	611	274	341	416	391	477	611	538	689	885
	oz	5.3	8.0	10.0	9.7	12.0	14.7	13.8	16.8	21.6	9.7	12.0	14.7	13.8	16.8	21.6	19.0	24.3	31.2
Screw diameter	mm	35	43	48	43	48	53	48	53	60	43	48	53	48	53	60	53	60	68
Injection pressure	MPa	272	180	145	215	172	141	223	183	143	215	172	141	223	183	143	230	179	139
Injection rate	g/s	134.7	203.3	253.3	170.6	212.6	259.2	164.3	200.3	256.8	211.4	263.4	321.1	203.6	248.2	318.1	197.6	253.3	325.3
Screw L:D ratio	-	24:1	20:1	20:1	22.3:1	20:1	20:1	22:1	20:1	20:1	22.3:1	20:1	20:1	22:1	20:1	20:1	22.6:1	20:1	20:1
Max. injection speed	mm/s	152	152	152	128	128	128	99	99	99	158	158	158	122	122	122	97	97	97
Screw stroke	mm	170	170	170	205	205	205	235	235	235	205	205	205	235	235	235	265	265	265
Screw speed (electric)	r/min	0-320	0-320	0-320	0-300	0-300	0-300	0-270	0-270	0-270	0-300	0-300	0-300	0-270	0-270	0-270	0-240	0-240	0-240
Clamping Unit																			
Clamping force	kN	1600			1600			1600			2200			2200			2200		
Space between tie bars (WxH)	mmxmm	530x530			530x530			530x530			610X570			610X570			610X570		
Mold thickness (min.-max.)	mm	180-550			180-550			180-550			195-610			195-610			195-610		
Opening stroke	mm	490			490			490			550			550			550		
Max. daylight	mm	1040			1040			1040			1160			1160			1160		
Ejector force	kN	62			62			62			82			82			82		
Ejector storke	mm	150			150			150			160			160			160		
Ejector number	-	5			5			5			13			13			13		
Power Unit																			
Max. system pressure	MPa	18.5			18.5			18.5			18.5			18.5			18.5		
Pump motor power	kW	30.4			30.4			30.4			35.2			35.2			35.2		
Heating power	kW	9	9	10.1	10.9	10.9	12.1	13.1	13.1	16.8	10.9	10.9	12.1	13.1	13.1	16.8	16.7	16.7	19
Plasticizing motor power	kW	20.4			22.3			24.5			22.3			24.5			28.3		
Number of temp control zones	PCS	5			5			6			5			6			6		
General																			
Dry cycle time	s	2.7			2.7			2.7			2.8			2.8			2.8		
Oil tank capacity	L	255			255			255			335			335			335		
Machine dimensions (LxWxH)	m×m×m	5.49×1.59×2.16			5.49×1.59×2.16			5.49×1.59×2.16			6.12×1.76×2.34			6.12×1.76×2.34			6.12×1.76×2.34		
Machine weight	kg	6300			6400			6500			8250			8350			8500		

Note:

1. Theoretical shot volume = barrel sectional area × injection stroke
2. Shot weight = theoretical shot volume × 0.92 (GPPS)
3. Due to improvement, specifications may be changed without prior notice.
4. Please inform us if you need to produce parts made from engineering plastics like PVC, PC, and PMMA or if you have other special requirements.

Specifications of UN280—350A6-EU

Description	UNIT	UN280A6-EU									UN350A6-EU								
International specification		945/2800			1340/2800			1995/2800			1340/3500			1995/3500			2845/3500		
Injection Unit																			
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Theoretical shot volume	cm^3	425	518	664	585	749	962	834	1071	1338	585	749	962	834	1071	1338	1198	1497	1829
Shot weight (PS)	g	391	477	611	538	689	885	767	986	1231	538	689	885	767	986	1231	1103	1377	1682
	oz	13.8	16.8	21.6	19.0	24.3	31.2	27.1	34.8	43.4	19.0	24.3	31.2	27.1	34.8	43.4	38.9	48.6	59.3
Screw diameter	mm	48	53	60	53	60	68	60	68	76	53	60	68	60	68	76	68	76	84
Injection pressure	MPa	223	183	143	230	179	139	239	186	149	230	179	139	239	186	149	238	190	156
Injection rate	g/s	254.5	310.3	397.6	247.0	316.6	406.7	237.0	304.5	380.3	308.8	395.8	508.3	296.3	380.6	475.4	298.2	372.5	455.1
Screw L:D ratio	-	22:1	20:1	20:1	22.6:1	20:1	20:1	22.6:1	20:1	20:1	22.6:1	20:1	20:1	22.6:1	20:1	20:1	22.3:1	20:1	20:1
Max. injection speed	mm/s	153	153	153	122	122	122	91	91	91	152	152	152	114	114	114	89	89	89
Screw stroke	mm	235	235	235	265	265	265	295	295	295	265	265	265	295	295	295	330	330	330
Screw speed (electric)	r/min	0-270	0-270	0-270	0-240	0-240	0-240	0-220	0-220	0-220	0-240	0-240	0-240	0-220	0-220	0-220	0-200	0-200	0-200
Clamping Unit																			
Clamping force	kN	2800			2800			2800			3500			3500			3500		
Space between tie bars (WxH)	mmxmm	680X680			680X680			680X680			730x730			730x730			730x730		
Mold thickness (min.-max.)	mm	220-680			220-680			220-680			240-730			240-730			240-730		
Opening stroke	mm	640			640			640			700			700			700		
Max. daylight	mm	1320			1320			1320			1430			1430			1430		
Ejector force	kN	82			82			82			118			118			118		
Ejector storke	mm	170			170			170			210			210			210		
Ejector number	-	13			13			13			13			13			13		
Power Unit																			
Max. system pressure	MPa	18.5			18.5			18.5			18.5			18.5			18.5		
Pump motor power	kW	55.5			55.5			45	55.5	55.5	66			66			45	66	66
Heating power	kW	13.1	13.1	16.8	16.7	16.7	19	25.3	25.3	25.3	16.7	16.7	19	25.3	25.3	25.3	26.9	26.9	30.9
Plasticizing motor power	kW	24.5			28.3			39.3			28.3			39.3			57.8		
Number of temp control zones	PCS	6			6			6			6	5	6	6			7		
General																			
Dry cycle time	s	3.2			3.2			3.2			4			4			4		
Oil tank capacity	L	445			445			445			570			570			570		
Machine dimensions (LxWxH)	mxmxm	6.83×1.86×2.43			6.83×1.86×2.43			6.83×1.86×2.43			7.84×2.24×2.37			7.84×2.24×2.37			7.84×2.24×2.37		
Machine weight	kg	13000			13200			13500			15400			15700			16000		

Note:

1. Theoretical shot volume = barrel sectional area × injection stroke
2. Shot weight = theoretical shot volume × 0.92 (GPPS)
3. Due to improvement, specifications may be changed without prior notice.
4. Please inform us if you need to produce parts made from engineering plastics like PVC, PC, and PMMA or if you have other special requirements.

Specifications of UN420—480A6-EU

Description	UNIT	UN420A6-EU									UN480A6-EU										
International specification		1995/4200			2845/4200			3520/4200			3520/4800			4715/4800				5610/4800			
Injection Unit																					
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	D	A	B	C	D
Theoretical shot volume	cm³	834	1071	1338	1198	1497	1829	1678	2050	2460	1678	2050	2460	2212	2438	2925	3456	2438	2925	3456	4031
Shot weight (PS)	g	767	986	1231	1103	1377	1682	1544	1886	2263	1544	1886	2263	2035	2243	2691	3179	2243	2691	3179	3708
	oz	27.1	34.8	43.4	38.9	48.6	59.3	54.5	66.5	79.8	54.5	66.5	79.8	71.8	79.1	94.9	112.1	79.1	94.9	112.1	130.8
Screw diameter	mm	60	68	76	68	76	84	76	84	92	76	84	92	80	84	92	100	84	92	100	108
Injection pressure	MPa	239	186	149	238	190	156	210	172	143	190	156	130	213	193	161	136	230	192	162	139
Injection rate	g/s	331.9	426.2	532.4	334.0	417.3	509.7	378.1	461.9	554.1	417.3	509.7	611.4	372.4	410.5	492.5	581.8	443.6	532.1	628.7	733.3
Screw L:D ratio	-	22.6:1	20:1	20:1	22.3:1	20:1	20:1	22.1:1	20:1	20:1	22.1:1	20:1	20:1	23.2:1	22:1	21.7:1	20:1	21.9:1	22:1	21.6:1	20:1
Max. injection speed	mm/s	128	128	128	100	100	100	91	91	91	100	100	100	81	81	81	81	87	87	87	87
Screw stroke	mm	295	295	295	330	330	330	370	370	370	370	370	370	440	440	440	440	440	440	440	440
Screw speed (electric)	r/min	0-220	0-220	0-220	0-200	0-200	0-200	0-190	0-190	0-190	0-190	0-190	0-190	0-190	0-190	0-190	0-190	0-160	0-160	0-160	0-160
Clamping Unit																					
Clamping force	kN	4200			4200			4200			4800			4800				4800			
Space between tie bars (WxH)	mmxmm	830x810			830x810			830x810			860x860			860x860				860x860			
Mold thickness (min.-max.)	mm	260-810			260-810			260-810			380-880			380-880				380-880			
Opening stroke	mm	780			780			780			880			880				880			
Max. daylight	mm	1590			1590			1590			1760			1760				1760			
Ejector force	kN	118			118			118			176			176				176			
Ejector storke	mm	220			220			220			220			220				220			
Ejector number	-	17			17			17			17			17				17			
Power Unit																					
Max. system pressure	MPa	18.5			18.5			18.5			18.5			18.5				18.5			
Pump motor power	kW	67.4			67.4			37	67.4	67.4	67.4			67.4				76.4			
Heating power	kW	25.3	25.3	25.3	26.9	26.9	30.9	33.4	33.4	36.2	33.4	33.4	36.2	33.4	33.4	43	43	41.1	41.1	47	47
Plasticizing motor power	kW	39.3			57.8			62.8			62.8			62.8				76.4			
Number of temp control zones	PCS	6			7			7			7			7				7			
General																					
Dry cycle time	s	4.5			4.5			4.5			5.5			5.5				5.5			
Oil tank capacity	L	760			760			760			760			760				760			
Machine dimensions (LxWxH)	mxmxm	8.39×2.36×2.46			8.39×2.36×2.46			8.39×2.36×2.46			9.03×2.41×2.44			9.03×2.41×2.44				9.43×2.41×2.44			
Machine weight	kg	19900			20200			20500			21200			21500				23000			

Note:

1. Theoretical shot volume = barrel sectional area × injection stroke
2. Shot weight = theoretical shot volume × 0.92 (GPPS)
3. Due to improvement, specifications may be changed without prior notice.
4. Please inform us if you need to produce parts made from engineering plastics like PVC, PC, and PMMA or if you have other special requirements.

Specifications of UN580—700A6-EU

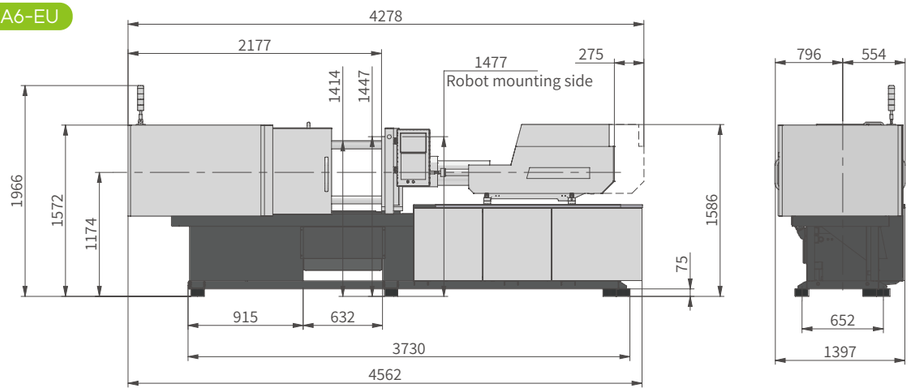
Description	UNIT	UN580A6-EU												UN700A6-EU											
International specification		4715/5800				5610/5800				7180/5800				5610/7000				7180/7000				9535/7000			
Injection Unit																									
		A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
Theoretical shot volume	cm³	2212	2438	2925	3456	2438	2925	3456	4031	3191	3770	4397	5073	2438	2925	3456	4031	3191	3770	4397	5073	4320	5038	5813	6750
Shot weight (PS)	g	2035	2243	2691	3179	2243	2691	3179	3708	2936	3468	4045	4667	2243	2691	3179	3708	2936	3468	4045	4667	3974	4635	5348	6210
	oz	71.8	79.1	94.9	112.1	79.1	94.9	112.1	130.8	103.5	122.3	142.7	164.6	79.1	94.9	112.1	130.8	103.5	122.3	142.7	164.6	140.2	163.5	188.6	219.0
Screw diameter	mm	80	84	92	100	84	92	100	108	92	100	108	116	84	92	100	108	92	100	108	116	100	108	116	125
Injection pressure	MPa	213	193	161	136	230	192	162	139	225	190	163	142	230	192	162	139	225	190	163	142	221	189	164	141
Injection rate	g/s	478.8	527.8	633.2	748.1	443.6	532.1	628.7	733.3	567.0	669.9	781.3	901.4	554.5	665.2	785.9	916.7	567.0	669.9	781.3	901.4	642.0	748.9	863.9	1003.2
Screw L:D ratio	-	23.2:1	22:1	21.7:1	20:1	21.9:1	22:1	21.6:1	20:1	21.7:1	22:1	21.5:1	20:1	21.9:1	22:1	21.6:1	20:1	21.7:1	22:1	21.5:1	20:1	21.6:1	22:1	21.6:1	20:1
Max. injection speed	mm/s	104	104	104	104	87	87	87	87	93	93	93	93	109	109	109	109	93	93	93	93	89	89	89	89
Screw stroke	mm	440	440	440	440	440	440	440	440	480	480	480	480	440	440	440	440	480	480	480	480	550	550	550	550
Screw speed (electric)	r/min	0-190	0-190	0-190	0-190	0-160	0-160	0-160	0-160	0-160	0-160	0-160	0-160	0-160	0-160	0-160	0-160	0-160	0-160	0-160	0-160	0-135	0-135	0-135	0-135
Clamping Unit																									
Clamping force	kN	5800				5800				5800				7000				7000				7000			
Space between tie bars (WxH)	mmxmm	930x930				930x930				930x930				1000x1000				1000x1000				1000x1000			
Mold thickness (min.-max.)	mm	350-900				350-900				350-900				400-1000				400-1000				400-1000			
Opening stroke	mm	900				900				900				1040				1040				1040			
Max. daylight	mm	1800				1800				1800				2040				2040				2040			
Ejector force	kN	192				192				192				192				192				192			
Ejector storke	mm	280				280				280				280				280				280			
Ejector number	-	21				21				21				21				21				21			
Power Unit																									
Max. system pressure	MPa	18.5				18.5				18.5				18.5				18.5				18.5			
Pump motor power	kW	76.4				76.4				76.4				88.4				88.4				98.4			
Heating power	kW	33.4	33.4	43	43	41.1	41.1	47	47	45.2	45.2	51	51	41.1	41.1	47	47	45.2	45.2	51	51	56.5	56.5	63.6	63.6
Plasticizing motor power	kW	62.8				76.4				88.4				76.4				88.4				98.4			
Number of temp control zones	PCS	7				7				7				7				7				8			
General																									
Dry cycle time	s	6.5				6.5				6.5				7				7				7			
Oil tank capacity	L	1000				1000				1000				1150				1150				1150			
Machine dimensions (LxWxH)	m×m×m	9.93×2.50×2.61				9.93×2.50×2.61				10.43×2.50×2.61				10.78×2.64×2.67				10.78×2.64×2.67				11.78×2.64×2.67			
Machine weight	kg	29000				29500				31500				38500				40000				42000			

Note:

1. Theoretical shot volume = barrel sectional area × injection stroke
2. Shot weight = theoretical shot volume × 0.92 (GPPS)
3. Due to improvement, specifications may be changed without prior notice.
4. Please inform us if you need to produce parts made from engineering plastics like PVC, PC, and PMMA or if you have other special requirements.

Machine Dimensions

UN60A6-EU



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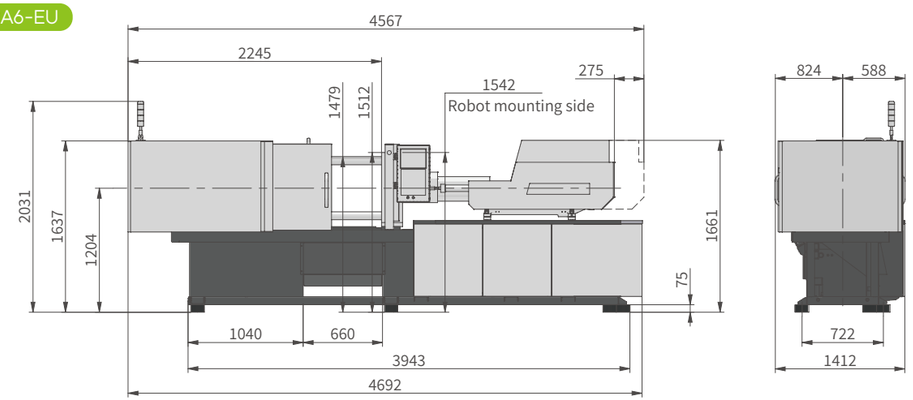
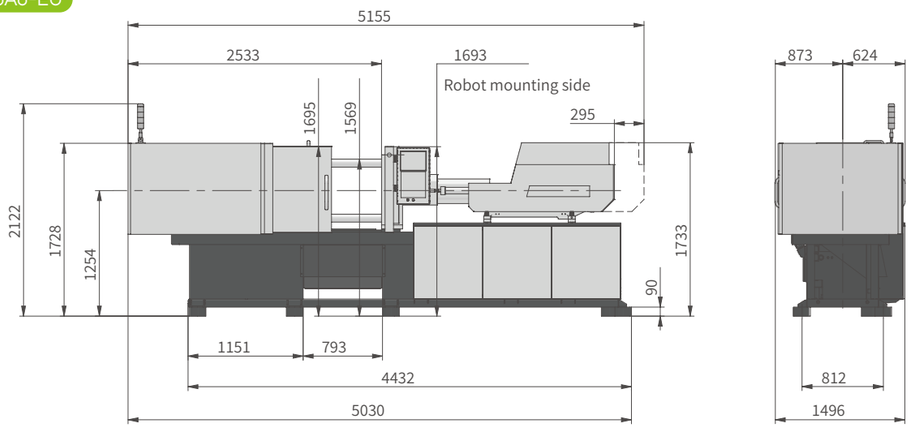


UN120A6-EU



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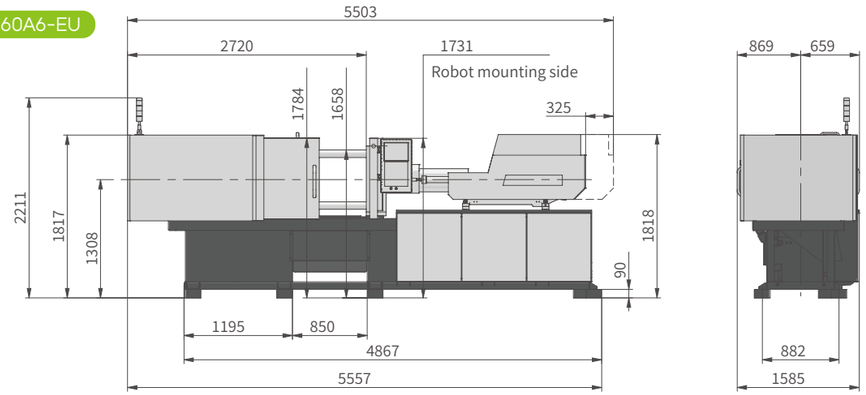

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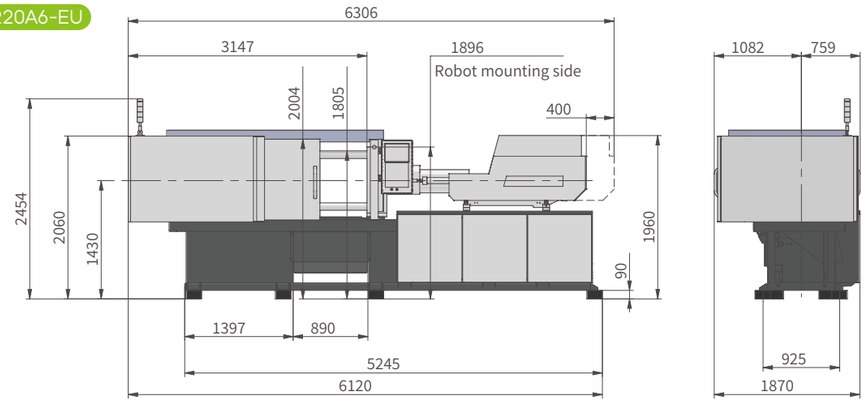
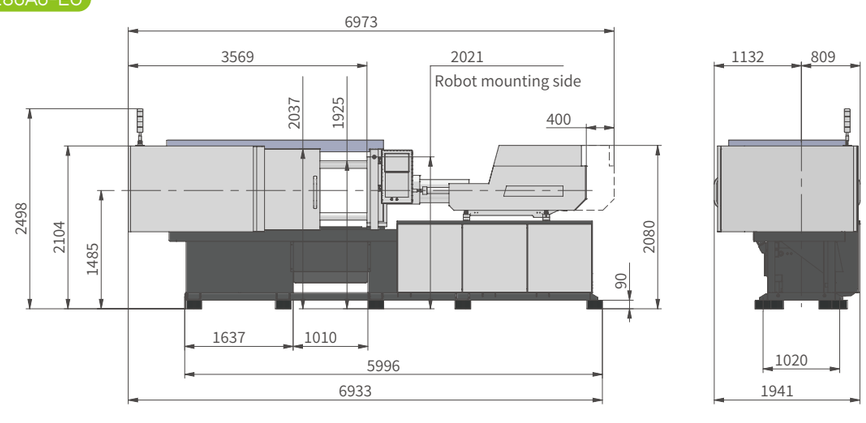


UN280A6-EU



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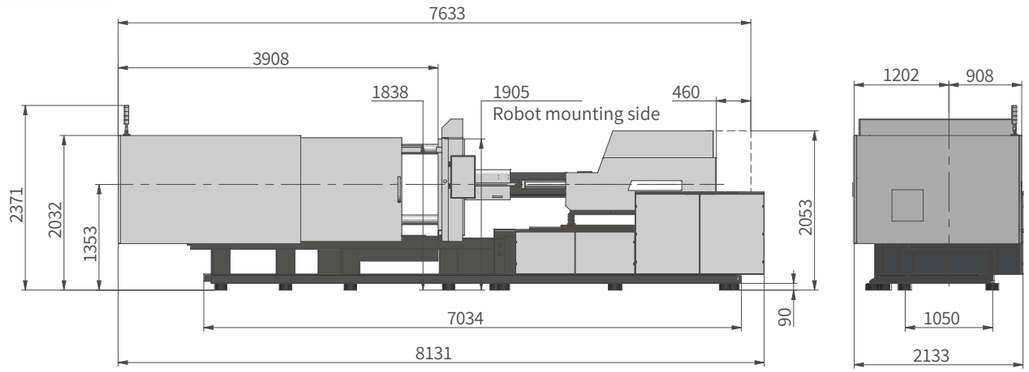
Machine Dimensions

UN350A6-EU



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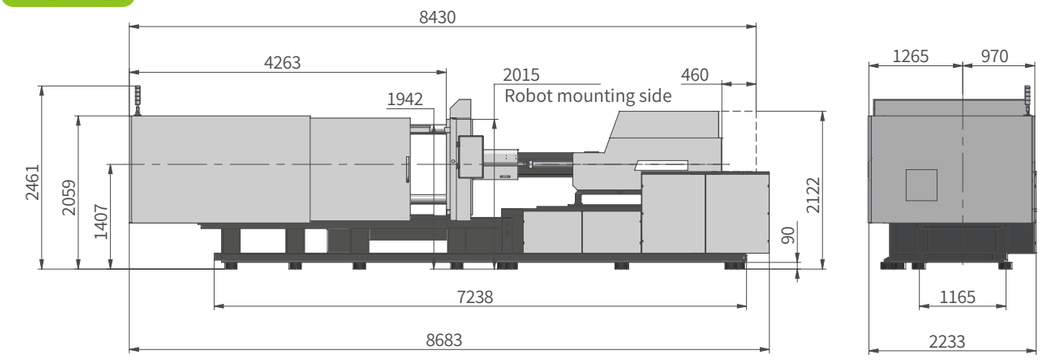

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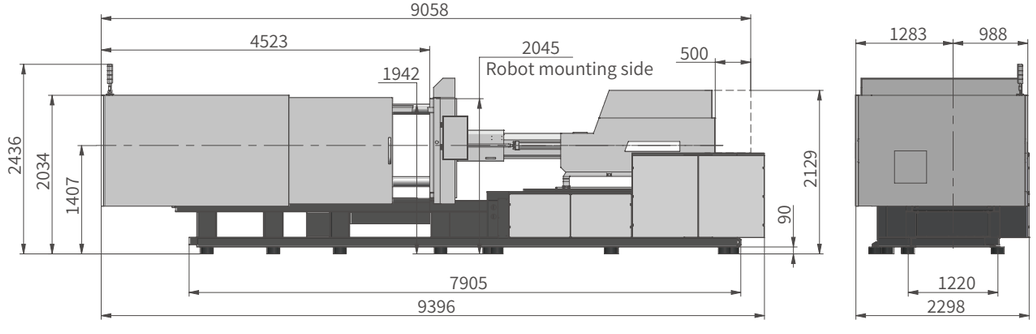

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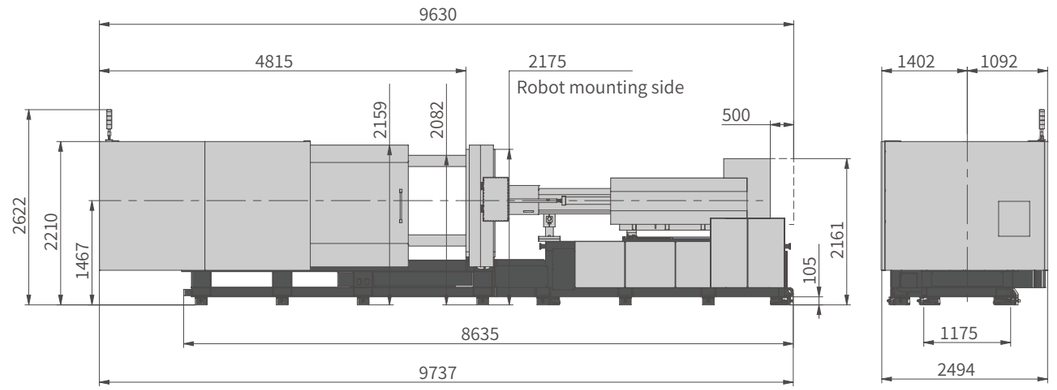

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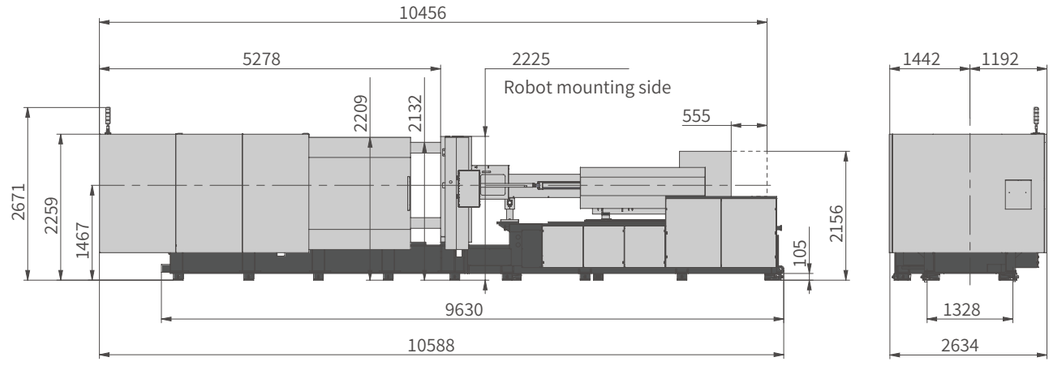

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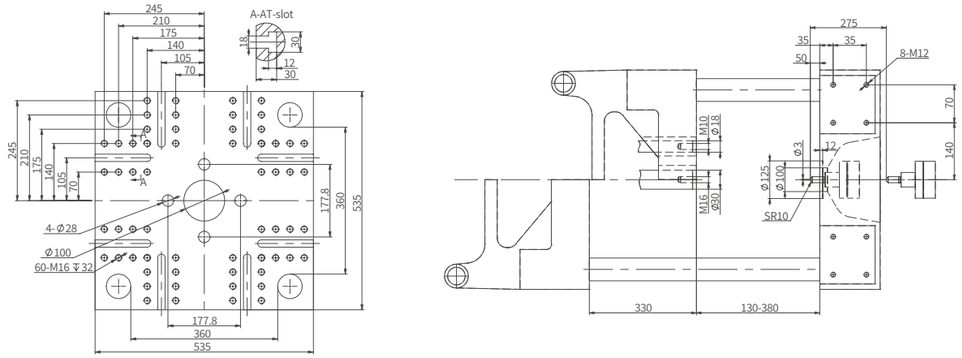
Platen Dimensions

UN60A6-EU



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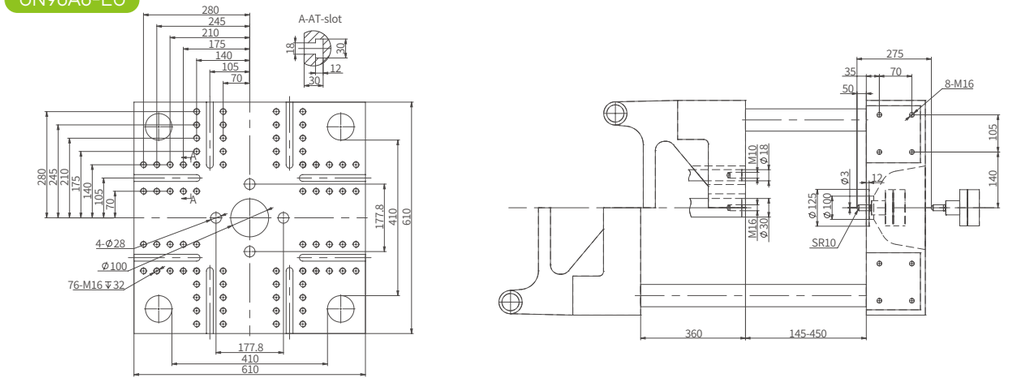
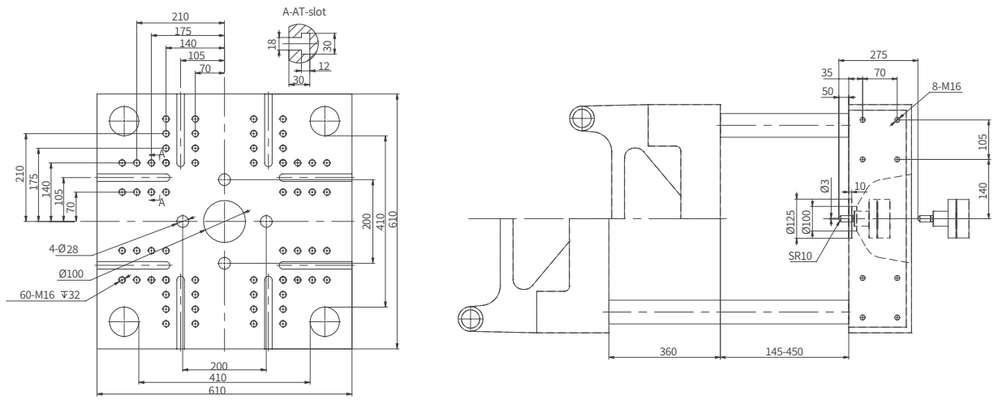


UN120A6-EU



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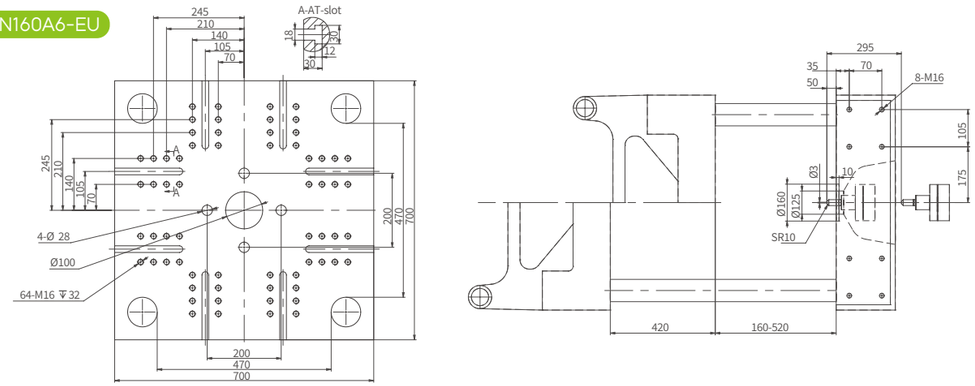

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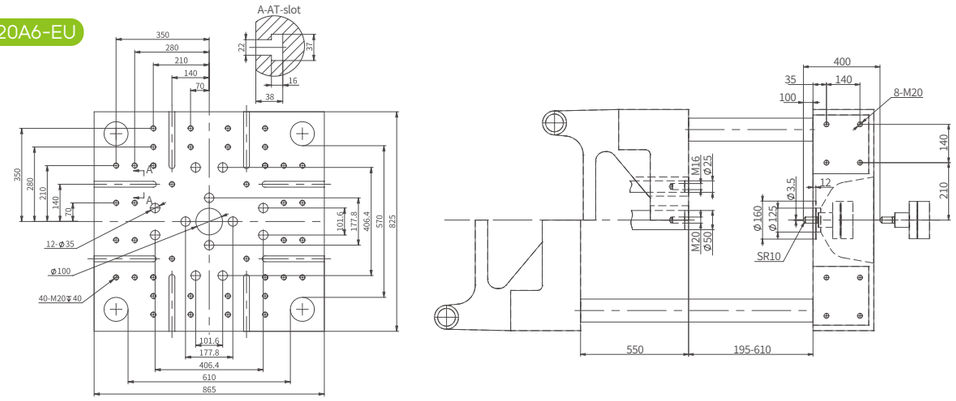

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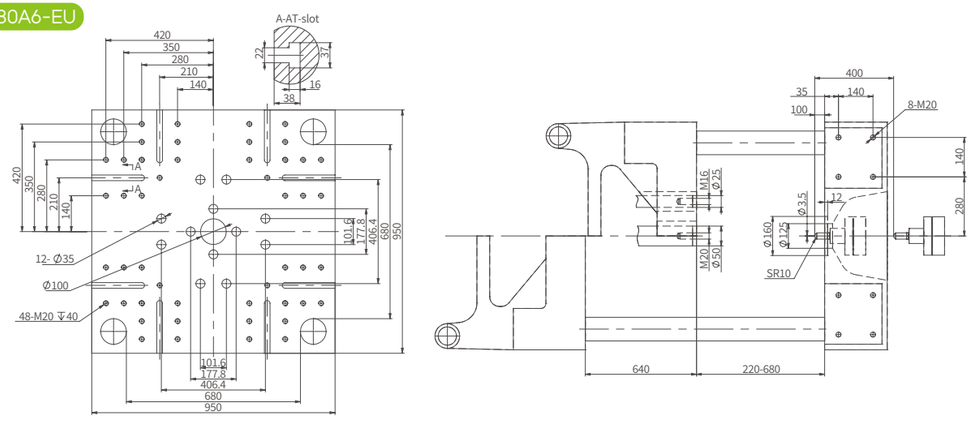

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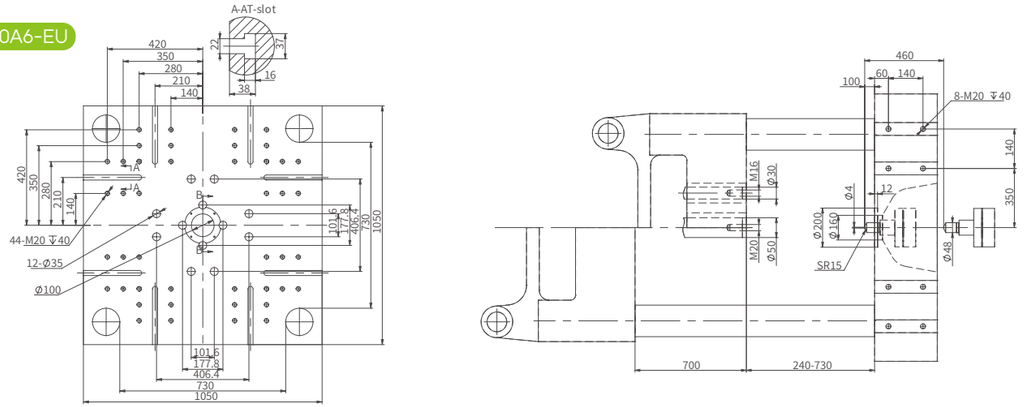
Platen Dimensions

UN350A6-EU



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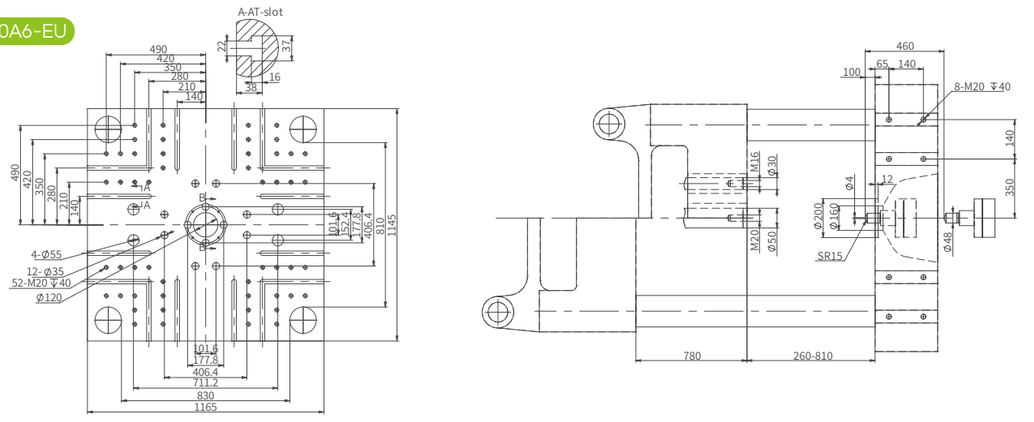

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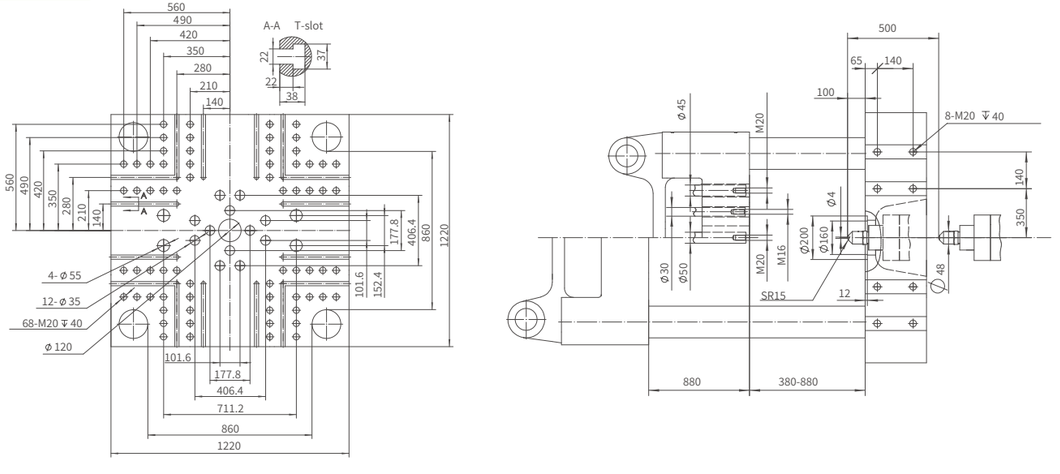

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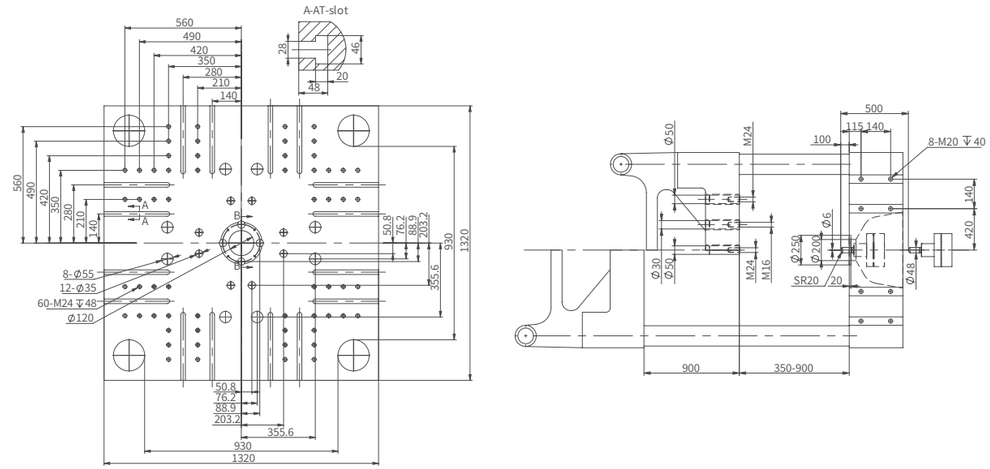

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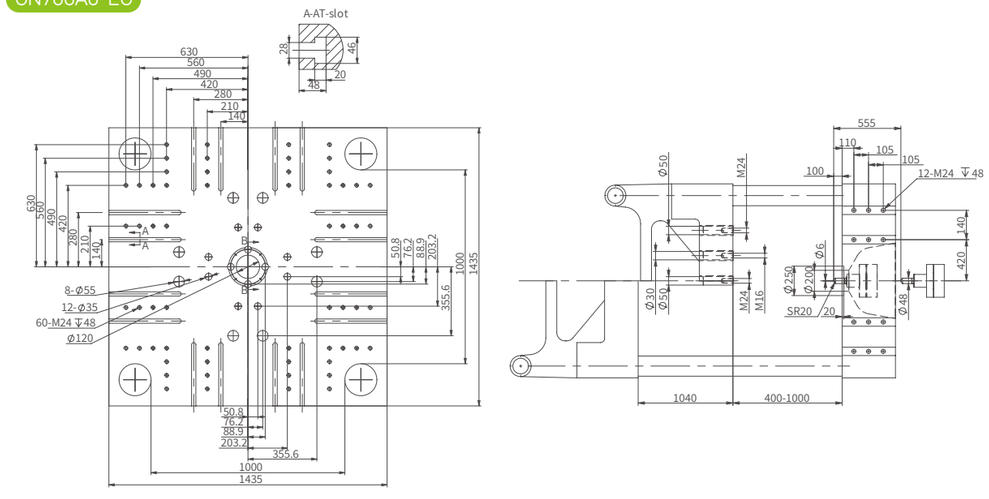

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Standard and Optional Features

	Standard	Optional
Injection Unit		
Integrated injection unit with linear guides	●	
Balanced double injection cylinder	●	
Parallel electric plasticizing	●	
Bi-metallic screw component	●	
Energy-saving groove design of barrel (patented design)	●	
Multi-stage PID barrel temperature control (5-6 stage)	●	
Double carriage cylinder	●	
Precision transducer for plasticizing / injection stroke control	●	
Energy-saving heat-retaining guard	●	
Nozzle guard (with electrical protection)	●	
Screw speed detection	●	
Cold start protection	●	
Automatic purging	●	
Selectable suck-back before or after plasticizing	●	
6-stage injection speed / pressure / position control	●	
5-stage holding pressure speed / pressure / time control	●	
3-stage plasticizing speed / pressure / position control	●	
Closed-loop temperature detection of feeding port	●	
Transducer for carriage position measurement	●	
Sliding hopper base	●	
Extended nozzle		○
Dedicated barrel and screw assembly (chrome-plating, PC, PMMA, PBT, etc.)		○
Barrel air-cooling device		○
Spring shut-off nozzle/hydraulic nozzle		○
Increased injection stroke or 1 stage larger (smaller) injection unit		○
Swiveling injection unit		○
Hydraulic plasticizing		○
Clamping Unit		
Precision transducer for clamping / ejector stroke control	●	
Clamping platens / toggles made of highly-rigid ductile iron QT500-7A	●	
Controller-controlled two-stage ejection forward/backward movement	●	
EUROMAP-based robot mounting holes	●	
Hydraulic mold height adjustment device	●	
Mechanical / electrical safety devices	●	
Wear-resistant manganese steel supporting tracks for movable platen	●	
Automatic centralized lubrication system	●	
Multiple ejector function settings	●	
Low-pressure mold protection	●	
Platen with T-slots and mounting holes	●	
EU2 standard ejector pin hole layout	●	
Safety edges for machine gates	●	
Compulsory ejector-back function	●	
One-button automatic mold height adjustment	●	
Special mold mounting hole		○
Mold thermal insulation plate		○
Increased ejector force and stroke		○
Increased mold thickness		○
Magnetic platen		○
Mold lifting device		○
Mechanical safety protection device		○
Hydraulic System		
High-precision servo system (with energy recovery)	●	
High-precision real time bypass oil filter	●	
Low-noise and energy-saving hydraulic circuit	●	
Proportional valve for mold opening and closing	●	
High-performance hydraulic valve	●	
External cooler	●	

	Standard	Optional
Digital proportional back-pressure control	●	
Cable hose restraint for exposed HP hydraulic hose	●	
Multi-channel cooling water devices with fast connectors	●	
Low-friction seal	●	
Automatic oil temperature detection and alarm	●	
Closed-loop oil temperature cooling control	●	
Core puller (one set standard for 60-220T, reserved one set for valve plate interface; two sets standard for 280-420T)	●	
Oil level detection	●	
Enlarged oil pump and motor (1-satge)		○
Enlarged plasticizing motor (multi-satge)		○
Synchronized ejection, core pulling system		○
Servo valve for injection		○
Additional sets of core puller		○
Hydraulic unscrewing device		○
Control System		
Barrel heater protection	●	
Input/output inspection	●	
Automatic heat retaining and automatic heating setting	●	
Optional control modes of switchover to holding (time / position / time + position)	●	
Separate adjustment of motion slope	●	
Automatic clamping force adjustment	●	
Process parameter locking	●	
700 sets of process parameters storage memory	●	
15" color LCD display	●	
Multiple operating languages	●	
Three-color alarm light	●	
Three sets of 3-phase power socket (2×32A+16A)	●	
Reserved interfaces for air blowers, cores, and ejector backward protection	●	
Emergency stop buttons for front and rear safety gates	●	
Intelligent injection weight control system	●	
Preventive monitoring and maintenance system for key components	●	
Intelligent mold opening	●	
Multi-curve display	●	
Mixing signal with EU plug	●	
Plasticizing signal interface with plug	●	
EU67 robot interface with plug	●	
Enhanced electrical protection system (IT system)	●	
Display of overall energy consumption	●	
OPC UA interface	●	
Hot runner interface		○
Pneumatic sequence valve		○
Interface for electric unscrewing interface		○
Air blowing with valve		○
Air-assisted injection device		○
Central (networked) monitoring system		○
Protective light grid of safety gates		○
Change of power supply voltage		○
General		
Operation manual	●	
Leveling pad	●	
Mold clamp	●	
A tool kit and a precision filter	●	
Glass-tube water flowmeter	●	
Stainless steel hopper		○
Auto loader		○
Dryer		○
Dehumidifier		○
Mold temperature controller		○

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