THINK TECH FORWARD

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YIZUM

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- [3] The data in the catalogue is obtained from internal testing in YIZUMI laboratory.
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550T-4000T

D1S SERIES TWO-PLATEN INJECTION MOLDING MACHINE



THINK TECH FORWARD

PRODUCT DETAILS

Based on importation and absorption of advanced German technology and years of experience in product application, we continue to move on and undertake the historic project of large-tonnage two-platen injection molding machine, striving to become a pioneer to fulfill such an innovative mission.









Auto bumper

Auto sunroof









Interior trim



Auto parts



Car light

THINK TECH FORWARD

More effective

Quick response hydraulic cylinders, synchronized lock nut mechanism, differential fast mold opening, precision movable platen supports, low-resistance hydraulic circuit design and high-response servo system enable the machine to operate more efficiently and response faster.

More energy-saving

The moveable platen has zero contact with the tie bars, also the clamping cylinder is assembled on the fixed platen, thus there is little load for moveable platen and less resistance could be caused during mold opening and closing, more energy saving. What's more, new-generation oil cooling servo system and PID temperature control are equipped to make machine more energy-efficient.

Smaller footprint

Compact design, automatic tie-bar extraction device for option to ensure machine is not limited by the height of workshop.

More functions in control system

D1S series adopts Austria's KEBA control system, with double CPUs, enabling fast response and various functions. New processes like MuCell, ICM (injection compression molding), IMC (In-Mold-Coatings) can be integrated.

Shorter dry cycle

Quick response hydraulic cylinders, synchronized lock nut mechanism, fast and stable mold opening.

More stable injection precision

The full closed-loop function for injection control and PID temperature control ensure repeatability of part weight < 0.3%.

More stable

High-rigidity clamping unit, uniform stress distribution on tie bar threads, high-response dual proportional valve, smart closed-loop control, precision filter and efficient cooling system enable the machine to be more precise and stable for injection molding.

Sensitive mold protection

With the low-resistance hydraulic circuit and pressure sensor, even three pieces of A4 paper can be sensed. Low-pressure mold protection is more reliable and sensitive.

More balanced force of tie bar

The tie bars adopt the uniform stress technology thus each thread is evenly stressed without unbalanced loading, durable and reliable. And it needs no lubrication, be cleaner.



Higher repeatability of mold-open end position

Fast response and high repeatability thanks to the high-response dual proportional valve control technology, which can meet strict requirement from automatic picking.

More energy-saving servo system

New-generation oil cooling servo system is stable, reliable and durable and characterized by high efficiency, energy saving, low noise, strong power and fast response.

CLAMPING UNIT



Short dry cycle, reliable and stable

D1S series two-platen injection molding machine, based on high-rigidity clamping unit, precision guide device, synchronized lock nut mechanism, quick response hydraulic cylinders, fast control system and controlled by high-response dual proportional valve, delivers higher movement efficiency and control stability.

Impact-proof synchronized lock nut mechanism

Impact-cushioning synchronized lock nut closing is fast and more reliable with low noise.

Independent high-pressure cylinder

Mold opening under high pressure for standard. Large opening force can solve molding problems of deep-cavity products or car lights which are strongly coated on mold or have difficulty in mold opening.

Highly-rigid accurate guide device

Long movable platen supports and L-shape guide rails on machine frame facilitate high load-bearing, guide capacity, and anti-roll adjustment.

Tie bars with uniform stress distribution

Tie bars are highly-rigid and resistant to wear and corrosion. Uniformity of stress distributed on tie bar threads is over 99% without unbalanced force, bringing durability









INJECTION UNIT

Stable injection end position High repeatability of part weight

Linear guide rails, with the benefits of low resistance and quick acceleration, are a standard feature of D1S series two-platen injection molding machine. Incorporating other features, such as ultrasonic displacement sensor for monitoring and full closed-loop injection, D1S series has achieved accurate position control and high repeatability of part weight.



Excellent injection repeatability

Repeatability of injection end position up to ±0.2mm or less and repeatability of part weight $\leq 0.3\%$.

Integral linear guide rails for injection

Linear guide rails are a standard feature of D1S series, bringing benefits of low resistance, quick acceleration and stable injection.



Non-contacted ultrasonic displacement sensor

Ultrasonic displacement sensor for position measurement is characterized by absolute value, little signal interference, long service life and high accuracy of measurement.

Adaptive PID temperature control

With the use of durable ceramic heater bands and adaptive PID control performed by the Austrian controller, temperature control accuracy is up to ±0.5°C.







HYDRAULIC SYSTEM



Fast response, strong overloading, stability, energy conservation

DIS series is based on a hydraulic system with stability and fast response at the core, which enables hydraulic circuit to be in optimal operating conditions. The hydraulic system is characterized by fast response, strong overload capacity and low energy consumption that meets China energy efficiency grade 1.

New-generation servo system driven by fully oil-cooled motor

The fully oil-cooled two-headed motor-driven servo system is the quintessence of highly-integrated servo pump system. It eliminates the influence of instability in machine operation due to the work environment and further reduces energy consumption of hydraulic circuit. Synchronized drive technology makes hydraulic circuit response faster and movements more efficient.









Durable and reliable

Precise filtration and independent cooling system

With independent hydraulic circuit filtration system, filter fineness is up to $5\mu m$ and cooling effect is optimized, which ensure long service life of seals. Machine becomes more stable.





Motor protected with L-shape plates

L-shape plates are easy to install and can be opened directly so that there is open space for more efficient maintenance of the drive system.







CONTROL SYSTEM

Accurate control, various functions, reliable and stable

D1S series adopts Austria's KEBA control system dedicated to two-platen injection molding machine. This powerful system can accurately control the position, pressure, speed, temperature and other parameters. The whole control system is engineered based on reliability, stability, safety and user-friendly operation for better user experience.



Stable, fast and accurate control

- ▶ D1S series injection molding machine adopts Austria's KEBA control system, with double CPUs, 1ms of response time and high reliability.
- ▶ Fast mold opening and closing and high repeatability thanks to the high-response dual proportional valve control technology.
- > Servo injection (closed-loop control of injection, plasticizing, holding pressure and back pressure)
- ▶ Self-tuning of temperature parameters of barrel and hot runner makes temperature control more accurate.

Various functions

- Memory of alarm and process parameter change, USB expansion without limit
- Programming with no restrictions, record of process parameter change curve is available
- ▶ Production process data control (PDP) and statistical process control (SPC)
- Multi-level user access to protect system and data
- Multiple protections of equipment and people through software and hardware
- New processes like MuCell, ICM, IMC can be integrated



IP54 electrical enclosure

The electrical enclosure is designed with IP54 rating, resistance to water and dust and good cooling effect, so that the electrical system is more stable in operation.



Separate connecter module for auxiliary equipment

External separate power control without opening the electrical cabinet makes operation safer and more convenient.



Euromap-based robot interface Euromap 12 robot interface is a standard feature, meeting customer's need for safer connection.

Humanized design,

process parameter setting

▶ Real-time remote control and maintenance

▶ Quick input by means of graph and virtual

► Quick settings page for easy and convenient

► Online conversion of languages and units

easy to operate

keyboard

Model	UN550D1S											
					INJEC 1		NIT					
			IU2695			IU3500			IU48	800		
Screw diameter	mm	68	76	84	76	84	92	84	92	100	108	
Theoretical shot volume	cm ³	1198	1497	1829	1678	2050	2460	2217	2659	3142	3664	
Shot weight	g	1103	1377	1682	1544	1886	2263	2039	2446	2890	3371	
Injection pressure	MPa	225	180	147	209	170	143	218	181	154	134	
L/D ratio	L/D	22.3	20	20	22.1	20	20	21.9	20	21.6	20	
Injection rate	cm³/s	407	508	621	463	565	678	560	671	793	925	
Max. injection speed	mm/s		112			102			10	01		
Screw stroke	mm		330 370							00		
Max. screw speed	r/min		197 157							6		
Barrel heating zone	PCS		6 6							5		
Clamping force	kN				Ę	5500						
Opening force	kN					390						
Platen size	mm		1270×1260									
Space between tie bars	mm				91	0×830						
Max. mold thickness	mm					900						
Min. mold thickness	mm					350						
Opening stroke	mm				130	0/750						
Max. daylight	mm					1650						
Ejector force	kN					110						
Ejector stroke	mm					250						
Ejector number	PCS					21						
					POW	ER UNI	Г					
System pressure	MPa		17.5/30			17.5/30			17.5	6/30		
Pump motor	kW		60+5.5			60+5.5			66+	+5.5		
Total power	kW	91.9	91.9	96.4	98.6	98.6	101.7	108.6	108.6	118.5	118.5	
Heater power	kW	26.4	26.4	30.9	33.1	33.1	36.2	37.14	37.14	47	47	
					GEI	NERAL						
Oil tank capacity	L		640			640			82	20		
Machine dimensions	m	7	.5×2.3×2	.8	7.	5×2.3×2	.8		8.2×2	.4×2.8		
Max. mold weight	Ton		8			8			5	3		

Platen Dimensions



Machine Dimensions



Opening force refers to mold opening force generated during high-pressure mold open.
 In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height and opening stroke with maximum mold height.

3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.

4. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.

5. The medium screw diameter is standard on the machine.

6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm3] × injection pressure (MPa)/100

7. The green figures are standard specifications of clamping unit and injection unit.



Model	UN750D1S												
					11	NJECTI	ON UN	IIT					
			IU3500			IU4	800			IU6	800		
Screw diameter	mm	76	84	92	84	92	100	108	92	100	108	116	
Theoretical shot volume	cm ³	1678	2050	2460	2217	2659	3142	3664	3191	3770	4397	5073	
Shot weight	g	1544	1886	2263	2039	2446	2890	3371	2936	3468	4045	4667	
Injection pressure	MPa	209	170	143	218	181	154	134	213	180	154	134	
L/D ratio	L/D	22.1	20	20	21.9	20	21.6	20	21.7	22	21.5	20	
Injection rate	cm³/s	463	565	678	560	671	793	925	665	785	916	1057	
Max. injection speed	mm/s		102			1	01			10	00		
Screw stroke	mm		370			4	00			48	80		
Max. screw speed	r/min		157			10	56			15	56		
Barrel heating zone	PCS		6				6			-	7		
			CLAMPING UNIT										
Clamping force	kN		7500										
Opening force	kN		500										
Platen size	mm		1510×1440										
Space between tie bars	mm					1100	×960						
Max. mold thickness	mm					9	50						
Min. mold thickness	mm					4	50						
Opening stroke	mm					1450	/950						
Max. daylight	mm					19	00						
Ejector force	kN					1	10						
Ejector stroke	mm					2	50						
Ejector number	PCS					2	21						
						POWE	R UNIT	-					
System pressure	MPa		17.5/30)		17.5	5/30			17.5	5/30		
Pump motor	kW		60+5.5 66+5.5							89	+7.5		
Total power	kW	98.6	98.6	98.6 101.7 108.6 108.6 118.5 118.5						143.5	153.1	153.1	
Heater power	kW	33.1	33.1 33.1 36.2 37.14 37.14 47 47							47	56.6	56.6	
						GEN	ERAL						
Oil tank capacity	L		640			8	20			9	70		
Machine dimensions	m	7	7.9×2.6×2.9 8.6×2.6×2.9							8.8×2	2.7×2.9		
Max. mold weight	Ton		11				11				11		

Platen Dimensions



Machine Dimensions



Opening force refers to mold opening force generated during high-pressure mold open.
 In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height and opening stroke with maximum mold height.

3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.

4. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.

5. The medium screw diameter is standard on the machine.

6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm3] × injection pressure (MPa)/100

7. The green figures are standard specifications of clamping unit and injection unit.



Model	UN900D1S												
						IN	JECTI	ON UN	IT				
			IU48	00			IU6	800			IU93	300	
Screw diameter	mm	84	92	100	108	92	100	108	116	100	108	116	125
Theoretical shot volume	cm ³	2217	2659	3142	3664	3191	3770	4397	5073	4320	5038	5813	6750
Shot weight	g	2039	2446	2890	3371	2936	3468	4045	4667	3974	4635	5348	6210
Injection pressure	MPa	218	181	154	134	213	180	154	134	215	184	160	138
L/D ratio	L/D	21.9	20	21.6	20	21.7	22	21.5	20	21.6	20	21.6	20
Injection rate	cm³/s	560	671	793	925	665	785	916	1057	801	934	1078	1252
Max. injection speed	mm/s		10)1			10	00			10	2	
Screw stroke	mm		40	00			48	30			55	50	
Max. screw speed	r/min		166 156								12	8	
Barrel heating zone	PCS		6 7 7								7		
			CLAMPING UNIT										
Clamping force	kΝ						90	00					
Opening force	kN	640											
Platen size	mm	1560×1520											
Space between tie bars	mm						1180>	(1000					
Max. mold thickness	mm						11	00					
Min. mold thickness	mm						50	00					
Opening stroke	mm						1650,	/1050					
Max. daylight	mm						21	50					
Ejector force	kΝ						22	20					
Ejector stroke	mm						32	20					
Ejector number	PCS						2	21					
							POWE	R UNIT					
System pressure	MPa		17.5	/30			17.5	/30			17.5	/30	
Pump motor	kW		66+	5.5			89-	+7.5			110+	-7.5	
Total power	kW	108.6	108.6	118.5	118.5	143.5	143.5	153.1	153.1	169.3	169.3	178.4	178.4
Heater power	kW	37.14	4 37.14 47 47 47 47 47 56.6 56.6						51.76	51.76	60.9	60.9	
							GEN	ERAL					
Oil tank capacity	L	820					9	70			115	50	
Machine dimensions	m		9.1×3.	3×2.9			9.3×3	.3×2.9			9.5×3.	3×2.9	
Max. mold weight	Ton		13	3			1	3			1:	3	

Platen Dimensions



Machine Dimensions



Opening force refers to mold opening force generated during high-pressure mold open.
 In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height and opening stroke with maximum mold height.
 Mold-bearing capacity of the movable platen is 2/3 of total mold weight.

4. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.

5. The medium screw diameter is standard on the machine.

6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm3] × injection pressure (MPa)/100

7. The green figures are standard specifications of clamping unit and injection unit.



Model	UN1100D1S												
						IN	IJECTI		IIT				
			IU68	00			IU9	300			IU11	300	
Screw diameter	mm	92	100	108	116	100	108	116	125	108	116	125	135
Theoretical shot volume	cm ³	3191	3770	4397	5073	4320	5038	5813	6750	5222	6024	6995	8159
Shot weight	g	2936	3468	4045	4667	3974	4635	5348	6210	4804	5542	6435	7506
Injection pressure	MPa	213	180	154	134	215	184	160	138	216	187	162	139
L/D ratio	L/D	21.7	22	21.5	20	21.6	20	21.6	20	22	22	21.6	20
Injection rate	cm³/s	665	785	916	1057	801	934	1078	1252	864	997	1157	1350
Max. injection speed	mm/s		10	00			10	02			94	.3	
Screw stroke	mm		480 550								57	70	
Max. screw speed	r/min		156 128								11	2	
Barrel heating zone	PCS		7 7								8	3	
						С	LAMPI	NG UN					
Clamping force	kN						110	000					
Opening force	kΝ	760											
Platen size	mm	1700×1660											
Space between tie bars	mm						1270	×1100					
Max. mold thickness	mm						12	00					
Min. mold thickness	mm						60	00					
Opening stroke	mm						1800	/1200					
Max. daylight	mm						24	00					
Ejector force	kΝ						2	74					
Ejector stroke	mm						30	50					
Ejector number	PCS						2	5					
							POWE	r unit					
System pressure	MPa		17.5	/30			17.5	/30			17.5	/30	
Pump motor	kW		89+	-7.5			110-	+7.5			89+3	7+7.5	
Total power	kW	143.5	43.5 143.5 153.1 153.1 169.3 169.3 178.4 178.4						199.9	199.9	204.1	204.1	
Heater power	kW	47 47 56.6 56.6 51.76 51.76 60.9 60.9						60.9	66.37	66.37	70.63	70.63	
					GEN	ERAL							
Oil tank capacity	L		97	70			11	50			12	70	
Machine dimensions	m		9.8×3	.3×3.1			9.9×3	.3×3.1			10.5×3	8.3×3.1	
Max. mold weight	Ton		10	6			1	6			10	6	

Platen Dimensions



Machine Dimensions



Opening force refers to mold opening force generated during high-pressure mold open.
 In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height and opening stroke with maximum mold height.

3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.

4. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.

5. The medium screw diameter is standard on the machine.

6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm3] × injection pressure (MPa)/100

Model	<u>UN1200D1S</u>												
						IN	IJECTI		IIT				
			IU68	00			IU9	300			IU11	300	
Screw diameter	mm	92	100	108	116	100	108	116	125	108	116	125	135
Theoretical shot volume	cm ³	3191	3770	4397	5073	4320	5038	5813	6750	5222	6024	6995	8159
Shot weight	g	2936	3468	4045	4667	3974	4635	5348	6210	4804	5542	6435	7506
Injection pressure	MPa	213	180	154	134	215	184	160	138	216	187	162	139
L/D ratio	L/D	21.7	22	21.5	20	21.6	20	21.6	20	22	22	21.6	20
Injection rate	cm³/s	665	785	916	1057	801	934	1078	1252	864	997	1157	1350
Max. injection speed	mm/s		10	0			10)2			94	l.3	
Screw stroke	mm		480 550								57	70	
Max. screw speed	r/min		156 128								11	2	
Barrel heating zone	PCS		7 7								8	3	
			CLAMPING UNIT										
Clamping force	kΝ						120	000					
Opening force	kΝ	875											
Platen size	mm	1860×1760											
Space between tie bars	mm						1310>	<1200					
Max. mold thickness	mm						12	50					
Min. mold thickness	mm						60	00					
Opening stroke	mm						2050	/1400					
Max. daylight	mm						26	50					
Ejector force	kΝ						2	74					
Ejector stroke	mm						3	50					
Ejector number	PCS						2	5					
							POWE	r unit	-				
System pressure	MPa		17.5	/30			17.5	/30			17.5	/30	
Pump motor	kW		89+	7.5			110-	+7.5			89+3	7+7.5	
Total power	kW	143.5	43.5 143.5 153.1 153.1 169.3 169.3 178.4 178.4					178.4	199.9	199.9	204.1	204.1	
Heater power	kW	47	47 47 56.6 56.6				51.76	60.9	60.9	66.37	66.37	70.63	70.63
							GEN	ERAL					
Oil tank capacity	L	970					11	50			12	70	
Machine dimensions	m		10.3×3	.4×3.1			10.4×3	3.4×3.1			11×3.4	4×3.1	
Max. mold weight	Ton		20				2	0			2	0	

Platen Dimensions



Machine Dimensions



Opening force refers to mold opening force generated during high-pressure mold open.
 In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height and opening stroke with maximum mold height.

3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.

4. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.

5. The medium screw diameter is standard on the machine.

6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm3] × injection pressure (MPa)/100

Model	UN1300D1S													
							IN	JECTI	ON UN	ΙТ				
			IU930	00				IU11	300				IU16000)
Screw diameter	mm	100	108	116	125	1	08	116	125	135		125	135	145
Theoretical shot volume	cm ³	4320	5038	5813	6750	52	222	6024	6995	8159		7977	9304	10733
Shot weight	g	3974	4635	5348	6210	48	304	5542	6435	7506		7339	8560	9875
Injection pressure	MPa	215	184	160	138	2	16	187	162	139		199	172	149
L/D ratio	L/D	21.6	20	21.6	20	2	22	22	21.6	20		23.6	22	20
Injection rate	cm³/s	801	934	1078	1252	8	64	997	1157	1350		1313	1532	1767
Max. injection speed	mm/s		10	2				94	ł.3				107	
Screw stroke	mm		55	0				57	70				650	
Max. screw speed	r/min		128					11	2				120	
Barrel heating zone	PCS		7 7								8			
							CI		NG UN	IT				
Clamping force	kΝ							130	000					
Opening force	kN							87	75					
Platen size	mm							1975>	<1875					
Space between tie bars	mm							1390>	<1280					
Max. mold thickness	mm							13	50					
Min. mold thickness	mm							65	50					
Opening stroke	mm							2200	/1500					
Max. daylight	mm							28	50					
Ejector force	kΝ							27	74					
Ejector stroke	mm							30	50					
Ejector number	PCS							2	5					
							P	POWE	r unit					
System pressure	MPa		17.5	/30				17.5	/30				17.5/30	
Pump motor	kW		110+	-7.5				89+3	7+7.5			8	89+66+	1
Total power	kW	169.3	169.3	178.4	178.4	19	9.9	199.9	204.1	204.1			253.7	
Heater power	kW	51.76	51.76	60.9	60.9	66	5.37	66.37	70.63	70.63			87.7	
								GEN	ERAL					
Oil tank capacity	L	1150					12	70				1600		
Machine dimensions	m	10.5×3.5×3.3						11.2×3	.5×3.3			11.	7×3.5×3	3.3
Max. mold weight	Ton		23					2	3				23	

Platen Dimensions



Machine Dimensions



Opening force refers to mold opening force generated during high-pressure mold open.
 In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height and opening stroke with maximum mold height.

3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.

4. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.

5. The medium screw diameter is standard on the machine.

6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm3] × injection pressure (MPa)/100

Model	UN1400D1S													
							IN	JECTI	ON UN	IIT				
			IU93(00				IU11	300				IU16000)
Screw diameter	mm	100	108	116	125		108	116	125	135		125	135	145
Theoretical shot volume	cm ³	4320	5038	5813	6750	1	5222	6024	6995	8159		7977	9304	10733
Shot weight	g	3974	4635	5348	6210	4	4804	5542	6435	7506		7339	8560	9875
Injection pressure	MPa	215	184	160	138		216	187	162	139		199	172	149
L/D ratio	L/D	21.6	20	21.6	20		22	22	21.6	20		23.6	22	20
Injection rate	cm³/s	801	934	1078	1252		864	997	1157	1350		1313	1532	1767
Max. injection speed	mm/s		10	2				94	ł.3				107	
Screw stroke	mm		550 570									650		
Max. screw speed	r/min		128 112									120		
Barrel heating zone	PCS		7 8									8		
			CLAMPING UNIT											
Clamping force	kΝ							140	000					
Opening force	kΝ		950											
Platen size	mm							2072;	×1972					
Space between tie bars	mm							1470>	<1360					
Max. mold thickness	mm							14	50					
Min. mold thickness	mm							70	00					
Opening stroke	mm							2350,	/1600					
Max. daylight	mm							30	50					
Ejector force	kΝ							30	00					
Ejector stroke	mm							40	00					
Ejector number	PCS							2	5					
								POWE	r unit					
System pressure	MPa		17.5	/30				17.5	/30				17.5/30	
Pump motor	kW		110+	-7.5				89+3	7+7.5			8	89+66+	11
Total power	kW	169.3	169.3	178.4	178.4		199.9	199.9	204.1	204.1			253.7	
Heater power	kW	51.76	51.76	60.9	60.9		66.37	66.37	70.63	70.63			87.7	
								GEN	ERAL					
Oil tank capacity	L	1150						12	70				1600	
Machine dimensions	m		10.8×3	.6×3.3				11.5×3	.6×3.3			12	2×3.6×3	.3
Max. mold weight	Ton		2	7				2	7				27	

Platen Dimensions



Machine Dimensions



Opening force refers to mold opening force generated during high-pressure mold open.
 In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height and opening stroke with maximum mold height.

3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.

4. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.

5. The medium screw diameter is standard on the machine.

6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm3] × injection pressure (MPa)/100

Model						U	N1600E	D1S				
						INJE	CTION	UNIT				
			IU1	1300			IU16000	C		IU200	000	
Screw diameter	mm	108	116	125	135	125	135	145	135	145	155	165
Theoretical shot volume	cm ³	5222	2 6024	6995	8159	7977	9304	10733	10020	11559	13208	14968
Shot weight	g	480	4 5542	6435	7506	7339	8560	9875	9218	10634	12152	13770
Injection pressure	MPa	216	187	162	139	199	172	149	199	173	151	133
L/D ratio	L/D	22	22	21.6	20	23.6	22	20	23.6	22	22	20
Injection rate	cm³/s	864	997	1157	1350	1313	1532	1767	1368	1579	1804	2044
Max. injection speed	mm/s		9	4.3			107			95	.6	
Screw stroke	mm		570 650							70	00	
Max. screw speed	r/min		1	12			120			12	20	
Barrel heating zone	PCS		8 8							8	3	
						CLA	MPING	UNIT				
Clamping force	kN						16000					
Opening force	kN		1100									
Platen size	mm		2200×2100									
Space between tie bars	mm					1	550×14	50				
Max. mold thickness	mm						1550					
Min. mold thickness	mm						700					
Opening stroke	mm					2	2600/17	50				
Max. daylight	mm						3300					
Ejector force	kN						300					
Ejector stroke	mm						400					
Ejector number	PCS						25					
						PC	WER L	JNIT				
System pressure	MPa		17.	5/30			17.5/30)		17.5	/30	
Pump motor	kW		89+3	37+7.5			89+66+	11		89+6	6+11	
Total power	kW	199.9	199.9 199.9 204.1 204.1 253.7							263	3.8	
Heater power	kW	66.3	66.37 66.37 70.63 70.63				87.7			97	.8	
						Ģ	ENER	AL.				
Oil tank capacity	L	1270					1600			16	00	
Machine dimensions	m		11.8×3	3.7×3.5		12	2.5×3.7×	3.5		12.5×3	.7×3.5	
Max. mold weight	Ton		\$	34			34			3	4	

Platen Dimensions



Machine Dimensions



Opening force refers to mold opening force generated during high-pressure mold open.
 In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height and opening stroke with maximum mold height.

3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.

4. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.

5. The medium screw diameter is standard on the machine.

6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm3] × injection pressure (MPa)/100

Model						l	JN1850[D1S				
						INJ	ECTION					
			IU11	300			IU1600	0		IU200	000	
Screw diameter	mm	108	116	125	135	125	135	145	135	145	155	165
Theoretical shot volume	cm ³	5222	6024	6995	8159	797	7 9304	10733	10020	11559	13208	14968
Shot weight	g	4804	5542	6435	7506	733	9 8560	9875	9218	10634	12152	13770
Injection pressure	MPa	216	187	162	139	199	172	149	199	173	151	133
L/D ratio	L/D	22	22	21.6	20	23.0	5 22	20	23.6	22	22	20
Injection rate	cm³/s	864	997	1157	1350	1313	3 1532	1767	1368	1579	1804	2044
Max. injection speed	mm/s		94	4.3			107			95	6.6	
Screw stroke	mm		570 650							70	00	
Max. screw speed	r/min		112 120							12	20	
Barrel heating zone	PCS	8 8								8	3	
						CL	AMPING	UNIT				
Clamping force	kN						18500					
Opening force	kN		1230									
Platen size	mm	2310×2210										
Space between tie bars	mm		1650×1550									
Max. mold thickness	mm						1600					
Min. mold thickness	mm						750					
Opening stroke	mm						2600/17	50				
Max. daylight	mm						3350					
Ejector force	kN						460					
Ejector stroke	mm						430					
Ejector number	PCS						33					
						Р	OWER L	JNIT				
System pressure	MPa		17.5	/30			17.5/30)		17.5	/30	
Pump motor	kW		89+3	7+7.5			89+66+	11		89+6	6+11	
Total power	kW	199.9 199.9 204.1 204.1					253.7			26	3.8	
Heater power	kW	66.37	66.37	70.63	70.63		87.7			97	.8	
							GENER	AL				
Oil tank capacity	L	1270					1600			16	00	
Machine dimensions	m	12.1×3.9×3.5					12.8×3.9×	3.5		12.8×3	.9×3.5	
Max, mold weight	Ton		4	2			42			4	2	

Platen Dimensions



Machine Dimensions



Opening force refers to mold opening force generated during high-pressure mold open.
 In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height and opening stroke with maximum mold height.

3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.

4. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.

5. The medium screw diameter is standard on the machine.

6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm3] × injection pressure (MPa)/100

Model						UN210	00D1S				
					11	VJECTI		Т			
			IU16000			IU200	000		IU2	5000	
Screw diameter	mm	125	135	145	135	145	155	165	155	165	
Theoretical shot volume	cm ³	7977	9304	10733	10020	11559	13208	14968	14152	16037	
Shot weight	g	7339	8560	9875	9218	10634	12152	13770	13020	14754	
Injection pressure	MPa	199	172	149	199	173	151	133	175	154	
L/D ratio	L/D	23.6	22	20	23.6	22	22	20	22	20.1	
Injection rate	cm³/s	1313	1532	1767	1368	1579	1804	2044	1472	1668	
Max. injection speed	mm/s		107			9	5.6		7	78	
Screw stroke	mm		650				7	50			
Max. screw speed	r/min		120				1	14			
Barrel heating zone	PCS		8		1	0					
			CLAMPING UNIT								
Clamping force	kΝ					210	000				
Opening force	kN					13	80				
Platen size	mm					2620	×2320				
Space between tie bars	mm					1800	×1600				
Max. mold thickness	mm					17	00				
Min. mold thickness	mm					80	00				
Opening stroke	mm					2700	/1800				
Max. daylight	mm					35	00				
Ejector force	kΝ					40	50				
Ejector stroke	mm					43	30				
Ejector number	PCS					2	5				
						POWE	R UNIT				
System pressure	MPa		17.5/30			17.5	5/30		17.5	5/30	
Pump motor	kW		89+66+1	1		89+0	66+11		89+0	66+11	
Total power	kW		253.7			26	3.8		27	8.4	
Heater power	kW		87.7			97	7.8		11:	2.4	
						GEN	ERAL				
Oil tank capacity	L		1600			16	00		16	00	
Machine dimensions	m		13×4.2×3	.5		13×4.	2×3.5		13×4.	.2×3.5	
Max. mold weight	Ton		50			5	60		5	50	

Opening force refers to mold opening force generated during high-pressure mold open.
 In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height and opening stroke with maximum mold height.

3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.

4. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.

5. The medium screw diameter is standard on the machine.

6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm3] × injection pressure (MPa)/100

7. The green figures are standard specifications of clamping unit and injection unit. 8. Because of constant technical improvement, the machine specifications are subject to change without notice.

Platen Dimensions



1800

Machine Dimensions



IU20000









Model				UN240	0D1S							
				INJECTIO								
		IU2500	0		IU400	00	IU55600					
Screw diameter	mm	155	165	165	5	185	200					
Theoretical shot volume	cm ³	14152	16037	209	55	26343	35186					
Shot weight	g	13020	14754	1927	78	24235	32371					
Injection pressure	MPa	175	154	190)	151	158					
L/D ratio	L/D	22	20.1	24		22	22					
Injection rate	cm³/s	1472	1668	161	4	2029	2482					
Max. injection speed	mm/s	78	78 75.5 79									
Screw stroke	mm	750	750 980 1120									
Max. screw speed	r/min	114	114 80 85									
Barrel heating zone	PCS	10	10 11 9									
			CLAMPING UNIT									
Clamping force	kN			240	00							
Opening force	kΝ			164	0							
Platen size	mm			2682×	2482							
Space between tie bars	mm			1900×	1700							
Max. mold thickness	mm			180	0							
Min. mold thickness	mm			80	0							
Opening stroke	mm			3000/2	2000							
Max. daylight	mm			380	00							
Ejector force	kN			46	0							
Ejector stroke	mm			43	0							
Ejector number	PCS			25	5							
				POWER	UNIT							
System pressure	MPa	17.5/3	0		17.5/3	30	17.5/30					
Pump motor	kW	89+66+	+11		110+89	2+11	110+89+55.6+11					
Total power	kW	278.4	458.6									
Heater power	kW	112.4			147.9	5	193					
				GENE	RAL							
Oil tank capacity	L	1600 2100 3200										
Machine dimensions	m	13.3×4.3>	×3.7		16×4.3>	×3.7	16.5×4.3×3.7					
Max. mold weight	Ton	59			59		59					

Platen Dimensions



Machine Dimensions



Opening force refers to mold opening force generated during high-pressure mold open.
 In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height and opening stroke with maximum mold height.

3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.

4. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.

5. The medium screw diameter is standard on the machine.

6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm3] × injection pressure (MPa)/100



Model				UN2850D1S								
				INJECTION UNI	т							
		IU25	000	IU40	000	IU55600						
Screw diameter	mm	155	165	165	185	200						
Theoretical shot volume	cm ³	14152	16037	20955	26343	35186						
Shot weight	g	13020	14754	19278	24235	32371						
Injection pressure	MPa	175	154	190	151	158						
L/D ratio	L/D	22	20.1	24	22	22						
Injection rate	cm³/s	1472	1668	1614	2029	2482						
Max. injection speed	mm/s	7	78 75.5									
Screw stroke	mm	75	750 980 1120									
Max. screw speed	r/min	11	114 80 85									
Barrel heating zone	PCS	1	10 11 9									
			CLAMPING UNIT									
Clamping force	kΝ		28500									
Opening force	kΝ			2200								
Platen size	mm			2790×2725								
Space between tie bars	mm			2010×1800								
Max. mold thickness	mm			2010								
Min. mold thickness	mm			790								
Opening stroke	mm			3110/1890								
Max. daylight	mm			3900								
Ejector force	kΝ			460								
Ejector stroke	mm			500								
Ejector number	PCS			33								
				POWER UNIT								
System pressure	MPa	17.5	/30	17.5,	/30	17.5/30						
Pump motor	kW	89+6	89+66+11 110+89+11 110+89+55.6+11									
Total power	kW	278	458.6									
Heater power	kW	112	2.4	147	.5	193						
				GENERAL								
Oil tank capacity	L	1600 2100 3200										
Machine dimensions	m	13.9×4	.6×3.6	16.6×4	6×3.6	17.1×4.6×3.6						
Max. mold weight	Ton	7	5	75	5	75						

Platen Dimensions



Machine Dimensions



Opening force refers to mold opening force generated during high-pressure mold open.
 In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height and opening stroke with maximum mold height.
 Mold-bearing capacity of the movable platen is 2/3 of total mold weight.
 The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.

5. The medium screw diameter is standard on the machine.

6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm3] × injection pressure (MPa)/100

Model			UN3400D1S				
		IU40000	IU55600	IU68000			
Screw diameter	mm	165 185	5 200	215			
Theoretical shot volume	CM ³	20955 2634	43 35186	43566			
Shot weight	g	19278 2423	35 32371	40081			
Injection pressure	MPa	190 151	158	156			
L/D ratio	L/D	24 22	22	22			
Injection rate	cm³/s	1614 202	9 2482	2541			
Max. injection speed	mm/s	75.5	79	70			
Screw stroke	mm	980	1120	1200			
Max. screw speed	r/min	80	85	52			
Barrel heating zone	PCS	11	9	9			
			CLAMPING UNIT				
Clamping force	kN		34000				
Opening force	kΝ		2550				
Platen size	mm		3220×2810				
Space between tie bars	mm		2240×1900				
Max. mold thickness	mm		2000				
Min. mold thickness	mm		1100				
Opening stroke	mm		3100/2200				
Max. daylight	mm		4200				
Ejector force	kΝ		460				
Ejector stroke	mm		500				
Ejector number	PCS		33				
			POWER UNIT				
System pressure	MPa	17.5/30	17.5/30	17.5/30			
Pump motor	kW	110+89+11	110+89+55.6+11	110+89+55.6+11			
Total power	kW	357.5	458.6	477.6			
Heater power	kW	147.5	193	212			
			GENERAL				
Oil tank capacity	L	2100	3200	3200			
Machine dimensions	m	17.2×4.9×3.9	17.7×4.9×3.9	18.8×4.9×3.9			
Max. mold weight	Ton	81	81	81			

Platen Dimensions



Machine Dimensions



Opening force refers to mold opening force generated during high-pressure mold open.
 In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height and opening stroke with maximum mold height.

3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.

4. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.

5. The medium screw diameter is standard on the machine.

6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm3] × injection pressure (MPa)/100

7. The green figures are standard specifications of clamping unit and injection unit.

Model			UN4000D1S	
			INJECTION UNIT	
		IU55600	IU68000	IU95000
Screw diameter	mm	200	215	245
Theoretical shot volume	cm ³	35186	43566	53272
Shot weight	g	32371	40081	49010
Injection pressure	MPa	158	156	178
L/D ratio	L/D	22	22	22
Injection rate	cm³/s	2482	2541	3111
Max. injection speed	mm/s	79	70	66
Screw stroke	mm	1120	1200	1130
Max. screw speed	r/min	85	52	52
Barrel heating zone	PCS	9	9	11
			CLAMPING UNIT	
Clamping force	kN		4000	
Opening force	kN		3170	
Platen size	mm		3300×2960	
Space between tie bars	mm		2400×2000	
Max. mold thickness	mm		2200	
Min. mold thickness	mm		1100	
Opening stroke	mm		3300/2200	
Max. daylight	mm		4400	
Ejector force	kΝ		460	
Ejector stroke	mm		500	
Ejector number	PCS		33	
			POWER UNIT	
System pressure	MPa	17.5/30	17.5/30	17.5/30
Pump motor	kW	110+89+55.6+11	110+89+55.6+11	89*4+11
Total power	kW	458.6	477.6	648
Heater power	kW	193	212	281
			GENERAL	
Oil tank capacity	L	3200	3200	5300
Machine dimensions	m	18.1×5.2×4.2	19.2×5.2×4.2	21.8×5.2×4.2
Max. mold weight	Ton	86	86	86

Platen Dimensions



Machine Dimensions



Opening force refers to mold opening force generated during high-pressure mold open.
 In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height and opening stroke with maximum mold height.

3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.

4. The shot weight is calculated by GPPS and it is 0.92 times of the theoretical shot volume.

5. The medium screw diameter is standard on the machine.

6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm3] × injection pressure (MPa)/100



Standard and Optional Features

	 Standara 	Optional
CLAMPING UNIT		
Clamping mechanism with tie bars independent of moving platen	•	
Quantizative volumetric automatic lubrication		
High-response propertienal control of parents and flow for mold open & mold close		
The residual defines the definest of the definest of the residual definest of the residual definest of the def	-	
nyarduiicaiiy-ariven ejectori device	•	
Low-pressure mola protection	•	
Clamping force adjustment as needed	•	
Forced reset function	•	
Ejector return protection	•	
Robot mounting hole (Euromap 18)	•	
Electric door (optional for 550T-1400T machine)	•	
T-slot platen	•	
Four clamp platens made of hiah-riaidity ductile iron	•	
Hydraulic and electrical safety devices		
Spfety foot plate in mold area (ontional for 550 or 7501 machine)		
High-required mental activity displayment sonest for maintainer and class control		
Mald operations	•	
	•	
Sarety root plate in front & rear abor areas		0
Synchronous ejection and core pulling		0
Secondary mold closing		0
Quick mold change system platform		0
Hydraulic mold clamp		0
Magnetic platen		0
Increased mold thickness		0
Increased ejector stroke		0
Mold lifting device		0
Heat insulating plate of mold		0
Special model mounting hole		0
		0
		0
		0
ELECTRIC CONTROL SYSTEM		
ELECTRIC CONTROL SYSTEM Closed-loop PID barrel temperature control	•	
ELECTRIC CONTROL SYSTEM Closed-loop PID barrel temperature control Manual, semi-auto and fully-auto operating mode	•	
ELECTRIC CONTROL SYSTEM Closed-loop PID barrel temperature control Manual, semi-auto and fully-auto operating mode Input and output inspection interface	•	
ELECTRIC CONTROL SYSTEM Closed-loop PID barrel temperature control Manual, semi-auto and fully-auto operating mode Input and output inspection interface Automatic display of alarm messages and acousto-optic alarm system	• • • •	
ELECTRIC CONTROL SYSTEM Closed-loop PID barrel temperature control Manual, semi-auto and fully-auto operating mode Input and output inspection interface Automatic display of alarm messages and acousto-optic alarm system Built-in software with the oscilloscope function	• • • •	
ELECTRIC CONTROL SYSTEM Closed-loop PID barrel temperature control Manual, semi-auto and fully-auto operating mode Input and output inspection interface Automatic display of alarm messages and acousto-optic alarm system Built-in software with the oscilloscope function Unlimited technical parameter storage	• • • • •	
ELECTRIC CONTROL SYSTEM Closed-loop PID barrel temperature control Manual, semi-auto and fully-auto operating mode Input and output inspection interface Automatic display of alarm messages and acousto-optic alarm system Built-in software with the oscilloscope function Unlimited technical parameter storage Automatic mold height adjustment	• • • • • •	
ELECTRIC CONTROL SYSTEM Closed-loop PID barrel temperature control Manual, semi-auto and fully-auto operating mode Input and output inspection interface Automatic display of alarm messages and acousto-optic alarm system Built-in software with the oscilloscope function Unlimited technical parameter storage Automatic mold height adjustment Chinese and English operating system	• • • • • • •	
ELECTRIC CONTROL SYSTEM Closed-loop PID barrel temperature control Manual, semi-auto and fully-auto operating mode Input and output inspection interface Automatic display of alarm messages and acousto-optic alarm system Built-in software with the oscilloscope function Unlimited technical parameter storage Automatic mold height adjustment Chinese and English operating system Safety gate emergency stop function		
ELECTRIC CONTROL SYSTEM Closed-loop PID barrel temperature control Manual, semi-auto and fully-auto operating mode Input and output inspection interface Automatic display of alarm messages and acousto-optic alarm system Built-in software with the oscilloscope function Unlimited technical parameter storage Automatic mold height adjustment Chinese and English operating system Safety gate emergency stop function Online cycle monitoring		
ELECTRIC CONTROL SYSTEM Closed-loop PID barrel temperature control Manual, semi-auto and fully-auto operating mode Input and output inspection interface Automatic display of alarm messages and acousto-optic alarm system Built-in software with the oscilloscope function Unlimited technical parameter storage Automatic mold height adjustment Chinese and English operating system Safety gate emergency stop function Online cycle monitoring 12" TET addre to up argameter		
ELECTRIC CONTROL SYSTEM Closed-loop PID barrel temperature control Manual, semi-auto and fully-auto operating mode Input and output inspection interface Automatic display of alarm messages and acousto-optic alarm system Built-in software with the oscilloscope function Unlimited technical parameter storage Automatic mold height adjustment Chinese and English operating system Safety gate emergency stop function Online cycle monitoring 12" TFT color touch screen		
ELECTRIC CONTROL SYSTEM Closed-loop PID barrel temperature control Manual, semi-auto and fully-auto operating mode Input and output inspection interface Automatic display of alarm messages and acousto-optic alarm system Built-in software with the oscilloscope function Unlimited technical parameter storage Automatic mold height adjustment Chinese and English operating system Safety gate emergency stop function Online cycle monitoring 12" TFT color touch screen Visualized graphic programming		
ELECTRIC CONTROL SYSTEM Closed-loop PID barrel temperature control Manual, semi-auto and fully-auto operating mode Input and output inspection interface Automatic display of alarm messages and acousto-optic alarm system Built-in software with the oscilloscope function Unlimited technical parameter storage Automatic mold height adjustment Chinese and English operating system Safety gate emergency stop function Online cycle monitoring 12" TFT color touch screen Visualized graphic programming PDP interface		
ELECTRIC CONTROL SYSTEM Closed-loop PID barrel temperature control Manual, semi-auto and fully-auto operating mode Input and output inspection interface Automatic display of alarm messages and acousto-optic alarm system Built-in software with the oscilloscope function Unlimited technical parameter storage Automatic mold height adjustment Chinese and English operating system Safety gate emergency stop function Online cycle monitoring 12" TFT color touch screen Visualized graphic programming PDP interface Injection monitoring protection		
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	 Standard 	 Optiona
Central (networked) monitoring system		0
Protective light grid of safety gates		0
Opto-electronic safety switch of front and rear safety gates		0
Protective light grid of central safety foot plate		0
INJECTION UNIT		
Double parallel cylinder injection unit with low-speed high-torque hydraulic motor	•	
Nitride alloy steel screw & barrel	•	
Purge guard (with electrical protection)	•	
Selectable suck-back before or after plasticizing	•	
10-stage injection speed/ pressure/ position control	•	
10-stage holding speed/ pressure/ position/ time control	•	
5-stage plasticizing speed/ pressure/ position control	•	
Linear quides for injection unit	•	
Double-carriage cylinder	•	
Cold start protection	•	
Manual central lubrication system of injection unit	•	
Suck back function	•	
Automatic purging	•	
Screw rotation measuring device	•	
Injection carriage transducer		0
Mixing screw		0
Ri-metallic screw barrel		0
Swivelling injection unit		0
Evtended pozzle (50/100/150/200mm longer)		0
Special screw components		0
Eporav-saving barrol bast rotaining davice (silicone covor)		0
		0
		0
Proportional back pressure control for plasticizing		
Oil pre-benting system		
2 sets of core pull (standard: 1 set for LINESODIS, 4 sets for LIN2100/2400DIS, 6 sets for LIN2850/3400/4000DIS)		
Differential mold-open circuit		
High-procesure mold opening	•	
Oil temporature and oil level alarm		
Multiple sets of sequence (injection) value interface	•	0
		0
Closed less proportional variable displacement pump avatem		
Multi-capacity larger pump motor		0
Multi-capacity larger plasticizing motor		0
Servo injection (closed-loop control of injection, plasticizing, noiding pressure and back pressure)		0
Plasticizing auring mola opening		0
Multiple sets of core pull or unscrewing devices with electrical interfaces		0
OTHER		
	•	
Adjustable leveling pad	•	
8-in 8-out water manifold on platen (with general, quick connectors)	•	
INOZZIE Spanner	•	
Mold clamp	•	-
Hopper		0
Hydraulic oil (standard for UN550-1400D1S)		0
Loading platform		0
Mold temperature controller		0
Automatic loader		0
Dehumidification dryer		0

THINK TECH FORWARD

