THINK TECH FORWARD

Designed by YIZUMI, June 2023

YIZUMI | HPM

D1-N 550T-4400T

D1-N SERIES TWO-PLATEN INJECTION MOLDING MACHINE

Innovative Practice of
Large-tonnage Two-platen Machine

YIZUMI-HPM CORPORATION

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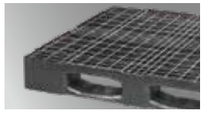
PRODUCT DETAILS

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.


Deep-cavity parts


Household appliances


Logistics materials


Auto parts


Auto bumper


Auto sunroof


Auto interior decoration


Auto lamp

D1-N

PRODUCT DETAILS

Core Value Propositions

Fast

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

Stable

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

Smaller footprint

D1-N series machine occupies less floor space than a three-platen machine, improving factory utilization and reducing costs of production facilities.

More reliable low-pressure mold protection

Mold protection is so sensitive that it can sense three pieces of A4 paper, which is more effective.

Higher stability of mold-open position

Variation up to ±0.2mm, meeting higher requirements on automated part removal and inserting.

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

Fast response, strong power and low energy consumption.

Professional control system

Short scan time, fast response and high movement repeatability.

≤3%

Smaller variation of force on tie bar

Variations≤ 3%, high mold-close accuracy, hardly any flash, higher stability of injection molding.

55%

Shorter dry cycle

Compared with a three-platen machine of the same clamp tonnage, mold opening and closing during dry cycle is about 55% faster.

≤3‰

Outstanding injection stability

Repeatability of part weight ≤ 3‰ , excellent quality, saving materials and costs.

Clamping Unit

Short dry cycle, reliable and stable

D1-N series two-platen injection molding machine, based on high-rigidity clamping unit, precision guide device, synchronized lock nut mechanism, quick 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.

Independent high-pressure cylinder (optional)

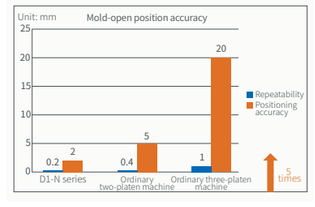
Mold opening under low speed and high pressure, as well as mold change through tie bar pulling in a factory with excessively low ceiling are available.

Highly-rigid accurate guide device

High-rigidity L-shape guide rails on machine frame, with guiding precision up to 0.05mm, facilitate fast and steady motion of platens.

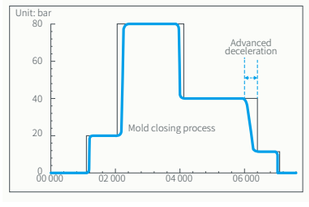
Wear & corrosion resistant tie bars with uniform stress distribution

With special technical treatment, 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.



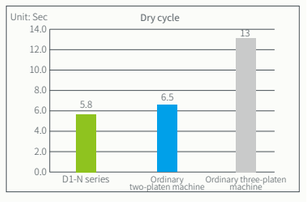
High repeatability of mold-open end position

Repeatability of mold-open position is up to ± 0.2mm, five times higher than that of a three-platen machine. (proven by in-house 1300T machine test result)



Sensitive mold protection

With the use of smart prior deceleration control, even three pieces of A4 paper can be sensed. Mold protection is more reliable and sensitive.



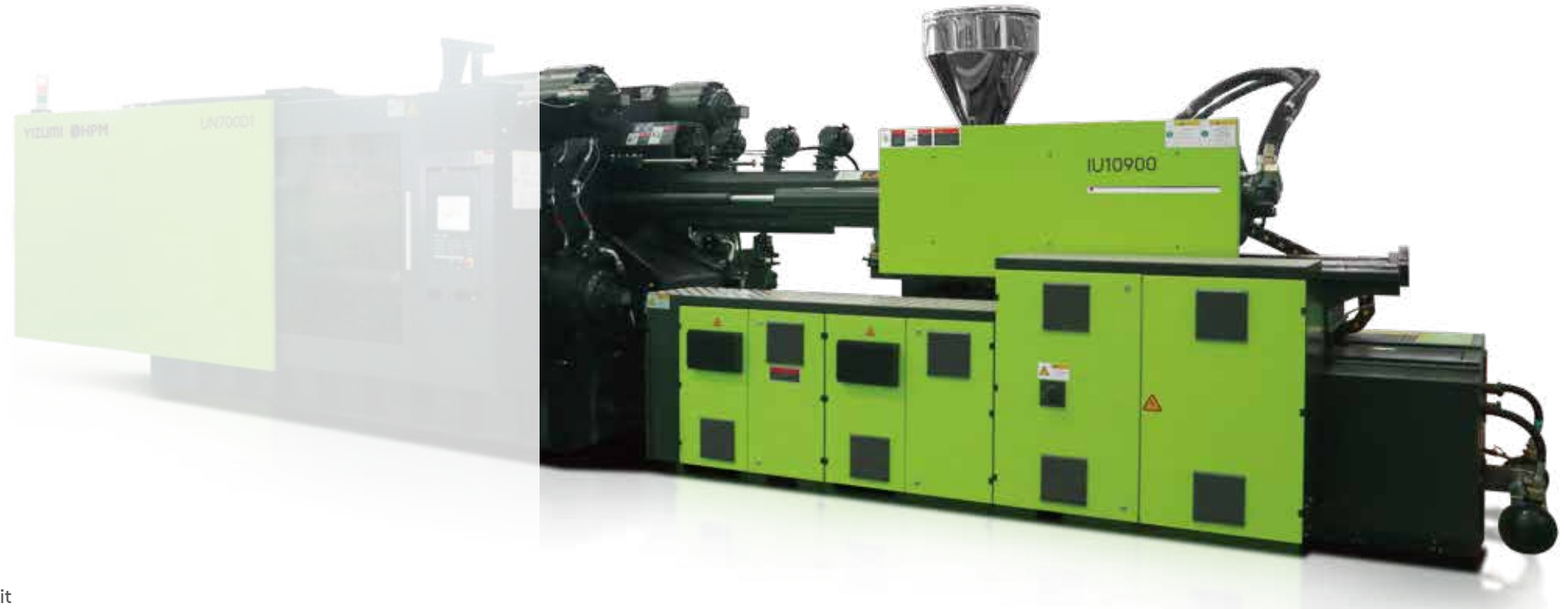
Short dry cycle

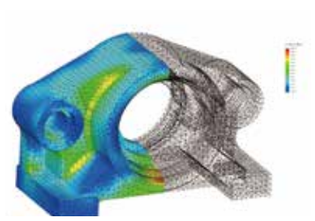
Efficient mold opening and closing and short dry cycle directly improve manufacturing efficiency and capacity. (proven by in-house 1300T machine test result)

Injection Unit

Stable injection end position and high repeatability of part weight

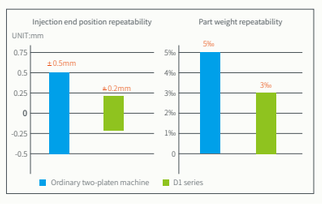
Linear guide rails, with the benefits of low resistance and quick acceleration, are a standard feature of D1-N series two-platen injection molding machine. Incorporating other features, such as high-rigidity injection unit and ultrasonic displacement sensor for monitoring, D1-N series has achieved accurate position control and high repeatability of part weight.





High-rigidity injection unit

Casts of injection unit are made from ductile cast iron. The platens are highly rigid with little deformation. Injection is more stable.



Excellent injection performance

Repeatability of injection end position up to ±0.2mm and repeatability of part weight ≤ 3‰ meet the needs of increasing efficiency and lowering costs.

Integral linear guide rails for injection

Linear guide rails are a standard feature of D1-N series, bringing benefits of low resistance, quick acceleration and accurate injection.

Ultrasonic displacement sensor

D1-N series is equipped with an ultrasonic digital displacement sensor, characterized by little signal interference and high position control accuracy.

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℃.

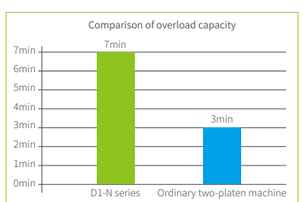
HYDRAULIC SYSTEM

Precise filtration, efficient cooling, higher stability

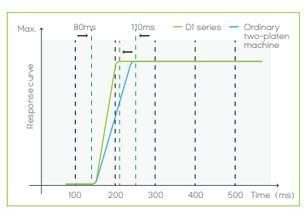
D1-N series is based on a hydraulic system with stability and fast response at the core, which enables hydraulic circuit to be in optimal operating conditions. The hydraulic system is characterized by fast response, strong overload capacity and low energy consumption that is superior to China energy efficiency grade 1.

Servo system driven by fully oil-cooled two-headed 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.



Strong overload capacity



Rapid acceleration

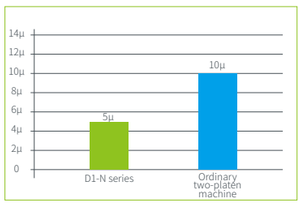
Durable and reliable

Precise filtration and independent cooling system

Filter fineness is up to 5μm and cooling effect is 2-3 times better than ordinary two-platen injection molding machines, which ensure long service life of seals. Machine becomes more stable.

Good cooling effect

High filter fineness



Comparison of filter fineness

Motor protected with L-shape plates

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

Control System

Accurate control, humanized design, reliable and stable

D1-N 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

- D1-N series two-platen injection molding machine adopts Austria' s KEBA control system, with double CPUs, 1ms of scan cycle and high reliability.
- Fast mold opening and closing and high repeatability thanks to the high-response dual proportional valve control technology.
- Fully-closed-loop control of injection speed, pressure and back pressure, with fast response and high accuracy.
- Self-tuning of temperature parameters of barrel and hot runner makes temperature control more accurate.

Data and safety

- Storage of process data without limit
- Memory of alarm and process parameter change
- Record of process parameter change curve
- Production process data control (PDP) and statistic process control (SPC)
- Multi-level user access to protect data
- Multiple protections of equipment and people through software and hardware

Easy to operate

- Real-time remote control（optional）
- Online conversion of languages and units
- Quick input by means of graph and virtual keyboard
- Quick settings page for easy and convenient process parameter setting

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 connector 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.

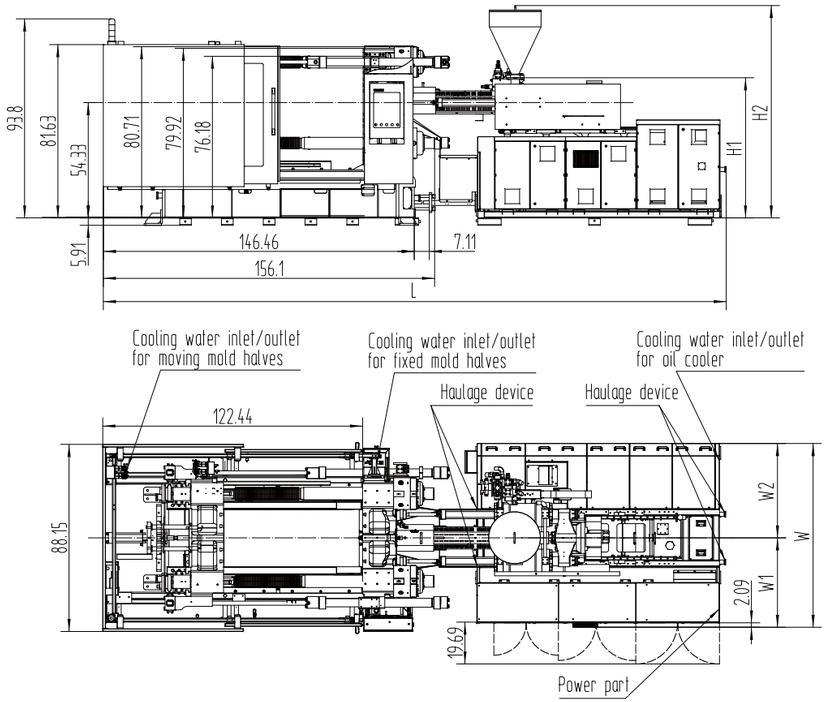
CONTROL

UN550D1-N Specifications

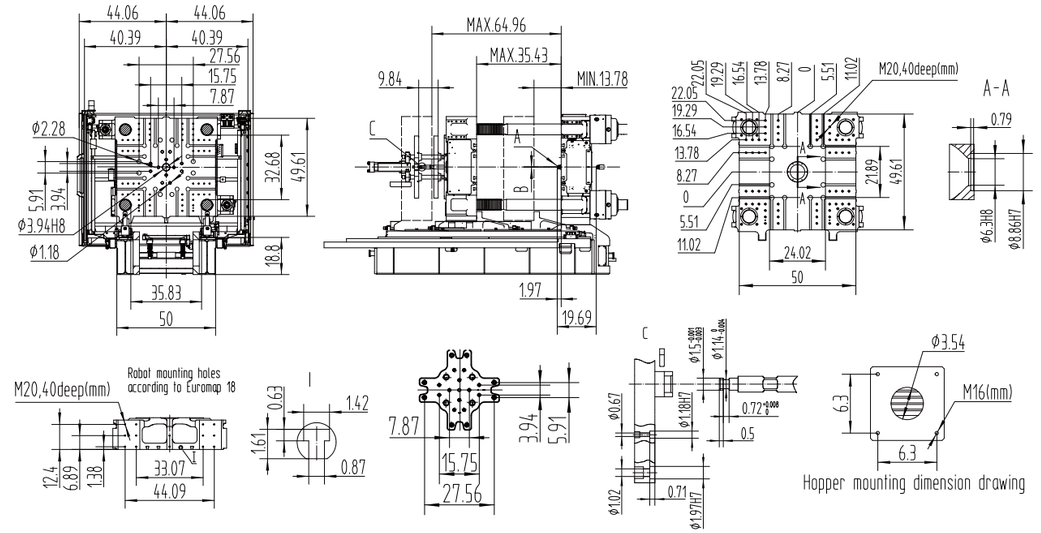
INJECTION UNIT														
Model	UNIT	IU1885			IU2695			IU3330			IU4800			
Screw diameter	mm	60	68	76	68	76	84	76	84	92	84	92	100	108
	in	2.36	2.68	2.99	2.68	2.99	3.31	2.99	3.31	3.62	3.31	3.62	3.94	4.25
Theoretical shot volume	cm^3	834	1071	1338	1198	1497	1829	1678	2050	2460	2217	2659	3142	3664
	cu in	50.90	65.38	81.67	73.14	91.36	111.61	102.40	125.11	150.13	135.28	162.28	191.75	223.63
Shot weight	g	767	986	1231	1103	1377	1683	1544	1886	2263	2039	2446	2890	3371
	oz	27.1	34.8	43.4	38.9	48.6	59.3	54.5	66.5	79.8	71.9	86.3	101.9	118.9
Injection pressure	Mpa	226	176	141	225	180	147	199	162	136	218	181	154	134
	psi	32808	25541	20450	32604	26092	21364	28863	23496	19725	31560	26310	22336	19435
Screw L:D ratio		22.6	20	20	22.3	20	20	22.1	20	20	21.9	20	21.6	20
Injection rate	cm^3/s	322	414	517	381	476	582	430	526	632	520	624	737	860
	cu in/s	19.67	25.26	31.55	23.25	29.05	35.52	26.24	32.10	38.57	31.73	38.08	44.98	52.48
Max. injection speed	mm/s	114			105			95			93.9			
	in/s	4.49			4.15			3.74			3.70			
Screw stroke	mm	295			330			370			400			
	in	11.61			12.99			14.57			15.75			
Max. screw speed	r/min	250			184			147			154			
Barrel heating zone number	PCS	5			6			6			6			
CLAMPING UNIT														
Clamping force	KN	5000												
	US tons	562												
Opening force	KN	390												
	US tons	44												
Platen size	mm	1270×1260												
	in	50×49.61												
Space between tie-bars	mm	910×830												
	in	35.83×32.68												
Max. mold thickness	mm	900												
	in	35.43												
Min. mold thickness	mm	350												
	in	13.78												
Opening stroke	mm	1300/750												
	in	51.18/29.53												
Max.daylight	mm	1650												
	in	64.96												
Ejector force	KN	110												
	US tons	12												
Ejector stroke	mm	250												
	in	9.84												
Ejector number	PCS	21												
POWER UNIT														
System pressure	Mpa	17.5/30			17.5/30			17.5/30			17.5/30			
	psi	2538/4351			2538/4351			2538/4351			2538/4351			
Motor	kW	55.6+5.5			60+5.5			60+5.5			66+5.5			
	hp	74.56+7.38			80.46+7.38			80.46+7.38			88.51+7.38			
Total power	kW	83.3	83.3	85.7	91.9	91.9	96.4	98.6	98.6	101.7	108.6	108.6	118.5	118.5
	hp	111.71	111.71	114.92	123.24	123.24	129.27	132.22	132.22	136.38	145.63	145.63	158.91	158.91
Heating capacity	kW	22.2	22.2	24.6	26.4	26.4	30.9	33.1	33.1	36.2	37.14	37.14	47	47
	hp	29.77	29.77	32.99	35.4	35.4	41.44	44.39	44.39	48.54	49.8	49.8	63.03	63.03
GENERAL														
Oil tank capacity	L	650			750			750			1000			
	gal	171.6			198			198			264			
Machine dimensions	m	7.5×2.3×2.4			7.5×2.3×2.6			7.5×2.3×2.4			8.6×2.4×2.5			
	in	295.28×90.55×94.49			295.28×90.55×102.36			295.28×90.55×94.49			338.58×94.49×98.43			
Max.mold weight	T	8			8			8			8			

1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to 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. Three kinds of screws are available for each model and the medium one is standard on the machine.
6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm^3] × 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.

UN550D1-N Machine Dimensions



UN550D1-N Platen Dimensions



Model	A		B		L	H1	H2	W	W1	W2	Sectional area of main power cord		Full-load current	Bearing capacity of foundation		Number of cooling water line port		Cooling water flow (mold excluded)		Cooling water pressure		Compressed air pressure	
	mm	in	mm	in	in	in	in	in	in	in	mm^2	in^2	A	t/m^2	lbm/in^2	n×L/min	n×gal/min	L/min	gal/min	bar	psi	bar	psi
UN550D1-N-IU1885	SR10	SR0.39	Ø3.5	Ø0.14	293.54	63.66	92.91	86.54	41.85	44.69	70	0.109	161.46	7.5	16500	(8+8)×11	(8+8)×2.9	100	26.4	3～4	43.5-58	5～6	72.5-87
UN550D1-N-IU2695	SR15	SR0.59	Ø4	Ø0.16	293.54	66.02	100.08	86.54	41.85	44.69	70	0.109	176.74										
UN550D1-N-IU3330	SR15	SR0.59	Ø4	Ø0.16	293.54	61.22	95.28	86.54	41.85	44.69	70	0.109	186.89										
UN550D1-N-IU4800	SR15	SR0.59	Ø4.5	Ø0.18	337.80	61.61	95.67	91.85	43.82	48.03	70	0.109	215.49										

UN770D1-N Specifications

INJECTION UNIT															
Model	UNIT	IU2695			IU3330			IU4800				IU6800			
Screw diameter	mm	68	76	84	76	84	92	84	92	100	108	92	100	108	116
	in	2.68	2.99	3.31	2.99	3.31	3.62	3.31	3.62	3.94	4.25	3.62	3.94	4.25	4.57
Theoretical shot volume	cm^3	1198	1497	1829	1678	2050	2460	2217	2659	3142	3664	3191	3770	4397	5073
	cu in	73.14	91.36	111.61	102.4	125.11	150.13	135.28	162.28	191.75	223.63	194.73	230.07	268.34	309.59
Shot weight	g	1103	1377	1683	1544	1886	2263	2039	2446	2890	3371	2936	3468	4045	4667
	oz	38.9	48.6	59.3	54.5	66.5	79.8	71.9	86.3	101.9	118.9	103.5	122.3	142.7	164.6
Injection pressure	Mpa	225	180	147	199	162	136	218	181	154	134	213	180	154	134
	psi	32604	26092	21364	28863	23496	19725	31560	26310	22336	19435	30864	26136	22336	19435
Screw L:D ratio		22.3	20	20	22.1	20	20	21.9	20	21.6	20	21.7	22	21.5	20
Injection rate	cm^3/s	381	476	582	430	526	632	520	624	737	860	615	726	847	977
	cu in/s	23.25	29.05	35.52	26.24	32.10	38.57	31.73	38.08	44.98	52.48	37.53	44.31	51.69	59.62
Max. injection speed	mm/s	105			95			93.9				92.5			
	in/s	4.15			3.74			3.70				3.64			
Screw stroke	mm	330			370			400				480			
	in	12.99			14.57			15.75				18.90			
Max. screw speed	r/min	184			147			154				145			
Barrel heating zone number	PCS	6			6			6				7			

CLAMPING UNIT		
Clamping force	KN	7000
	US tons	787
Opening force	KN	500
	US tons	56
Platen size	mm	1510×1440
	in	59.45×56.69
Space between tie-bars	mm	1100×960
	in	43.31×37.80
Max. mold thickness	mm	950
	in	37.4
Min. mold thickness	mm	450
	in	17.72
Opening stroke	mm	1450/950
	in	57.09/37.40
Max.daylight	mm	1900
	in	74.8
Ejector force	KN	110
	US tons	12
Ejector stroke	mm	250
	in	9.84
Ejector number	PCS	21

POWER UNIT															
System pressure	Mpa	17.5/30			17.5/30			17.5/30				17.5/30			
	psi	2538/4351			2538/4351			2538/4351				2538/4351			
Motor	kW	60+5.5			60+5.5			66+5.5				89+7.5			
	hp	80.46+7.38			80.46+7.38			88.51+7.38				119.35+10.06			
Total power	kW	91.9	91.9	96.4	98.6	98.6	101.7	108.6	108.6	118.5	118.5	143.5	143.5	153.1	153.1
	hp	123.24	123.24	129.27	132.22	132.22	136.38	145.63	145.63	158.91	158.91	192.43	192.43	205.31	205.31
Heating capacity	kW	26.4	26.4	30.9	33.1	33.1	36.2	37.14	37.14	47	47	47	47	56.6	56.6
	hp	35.4	35.4	41.44	44.39	44.39	48.54	49.8	49.8	63.03	63.03	63.03	63.03	75.9	75.9

GENERAL					
Oil tank capacity	L	750	750	1000	1150
	gal	198	198	264	303.6
Machine dimensions	m	7.9×2.6×2.7	7.9×2.6×2.5	9×2.6×2.5	9×2.7×2.5
	in	311.02×102.36×106.3	311.02×102.36×98.43	354.33×102.36×98.43	354.33×106.3×98.43
Max.mold weight	T	11	11	11	11

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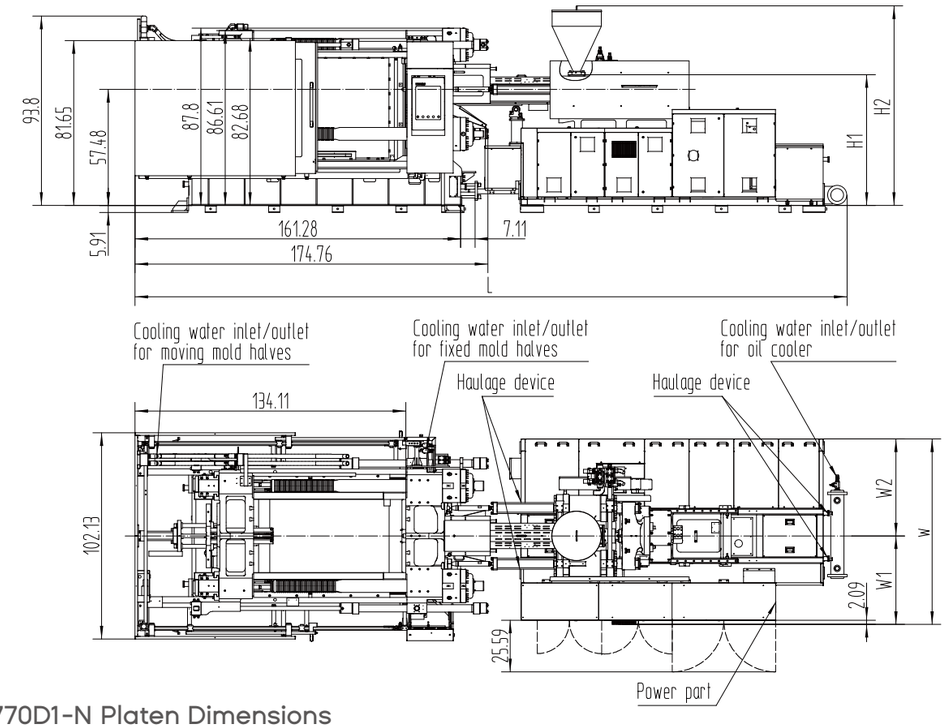
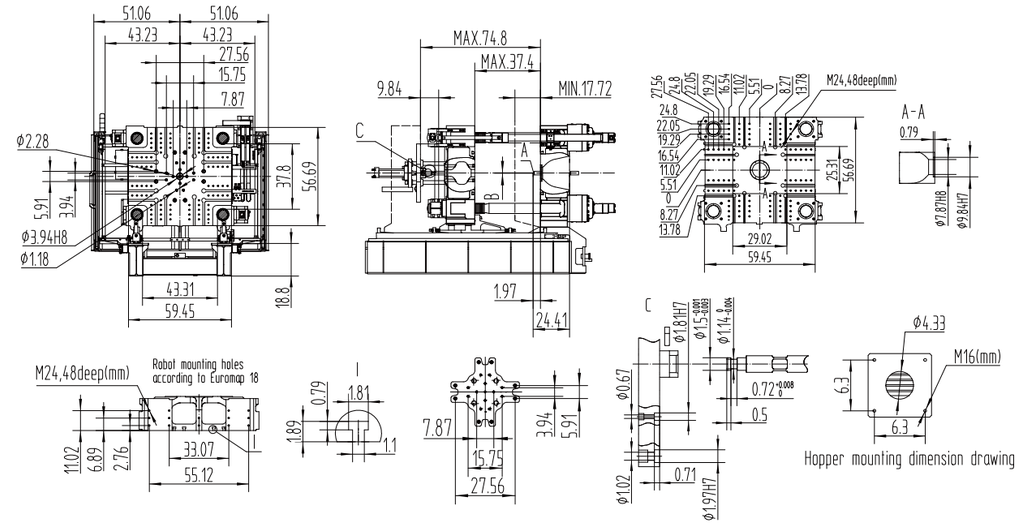
UN770D1-N Machine Dimensions



UN770D1-N Platen Dimensions



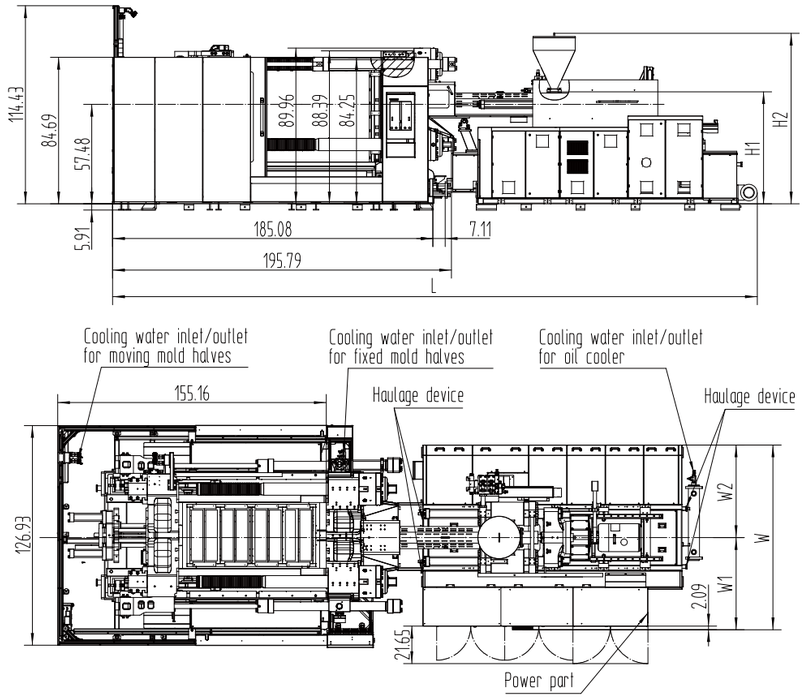
Model	A		B		L	H1	H2	W	W1	W2	Sectional area of main power cord		Full-load current	Bearing capacity of foundation		Number of cooling water line port		Cooling water flow (mold excluded)		Cooling water pressure		Compressed air pressure	
	mm	in	mm	in	in	in	in	in	in	in	mm^2	in^2	A	t/m^2	lbm/in^2	n×L/min	n×gal/min	L/min	gal/min	bar	psi	bar	psi
UN770D1-N-IU2695	SR15	SR0.59	Ø4	Ø0.16	308.39	69.17	103.23	86.54	41.85	44.69	70	0.109	176.74	7.5	16500	(8+8)×11	(8+8)×2.9	100	26.4	3～4	43.5-58	5～6	72.5-87
UN770D1-N-IU3330	SR15	SR0.59	Ø4	Ø0.16	308.39	64.37	98.43	86.54	41.85	44.69	70	0.109	186.89										
UN770D1-N-IU4800	SR15	SR0.59	Ø4.5	Ø0.18	352.64	64.76	98.82	91.85	43.82	48.03	70	0.109	215.49										
UN770D1-N-IU6800	SR15	SR0.59	Ø4.5	Ø0.18	352.64	64.76	98.82	106.73	53.23	53.50	75	0.116	259.84										

UN990D1-N Specifications

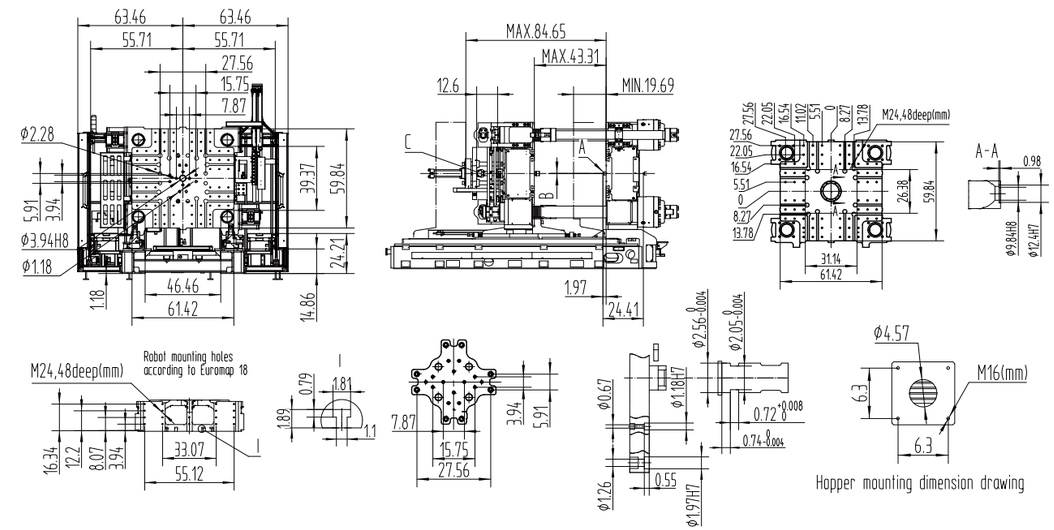
INJECTION UNIT													
Model	UNIT	IU4800				IU6800				IU9000			
Screw diameter	mm	84	92	100	108	92	100	108	116	100	108	116	125
	in	3.31	3.62	3.94	4.25	3.62	3.94	4.25	4.57	3.94	4.25	4.57	4.92
Theoretical shot volume	cm^3	2217	2659	3142	3664	3191	3770	4397	5073	4320	5038	5813	6748
	cu in	135.28	162.28	191.75	223.63	194.73	230.07	268.34	309.59	263.62	307.46	354.75	411.81
Shot weight	g	2039	2446	2890	3371	2936	3468	4045	4667	3974	4636	5348	6208
	oz	71.9	86.3	101.9	118.9	103.5	122.3	142.7	164.6	140.2	163.5	188.6	219
Injection pressure	Mpa	218	181	154	134	213	180	154	134	209	179	155	134
	psi	31560	26310	22336	19435	30864	26136	22336	19435	30298	25976	22481	19435
Screw L:D ratio		21.9	20	21.6	20	21.7	22	21.5	20	21.6	20	21.6	20
Injection rate	cm^3/s	520	624	737	860	615	726	847	977	766	894	1031	1197
	cu in/s	31.73	38.08	44.98	52.48	37.53	44.31	51.69	59.62	46.75	54.56	62.92	73.05
Max. injection speed	mm/s	93.9				92.5				97.6			
	in/s	3.70				3.64				3.84			
Screw stroke	mm	400				480				550			
	in	15.75				18.90				21.65			
Max. screw speed	r/min	154				145				128			
Barrel heating zone number	PCS	6				7				7			
CLAMPING UNIT													
Clamping force	KN	9000											
	US tons	1012											
Opening force	KN	640											
	US tons	72											
Platen size	mm	1560×1520											
	in	61.42×59.84											
Space between tie-bars	mm	1180×1000											
	in	46.46×39.37											
Max. mold thickness	mm	1100											
	in	43.31											
Min. mold thickness	mm	500											
	in	19.69											
Opening stroke	mm	1650/1050											
	in	64.96/41.34											
Max.daylight	mm	2150											
	in	84.65											
Ejector force	KN	220											
	US tons	25											
Ejector stroke	mm	320											
	in	12.6											
Ejector number	PCS	21											
POWER UNIT													
System pressure	Mpa	17.5/30				17.5/30				17.5/30			
	psi	2538/4351				2538/4351				2538/4351			
Motor	kW	66+7.5				89+7.5				110+7.5			
	hp	88.51+10.06				119.35+10.06				147.51+10.06			
Total power	kW	110.6	110.6	120.5	120.5	143.5	143.5	153.1	153.1	169.3	169.3	178.4	178.4
	hp	148.31	148.31	161.59	161.59	192.43	192.43	205.31	205.31	227.03	227.03	239.23	239.23
Heating capacity	kW	37.14	37.14	47	47	47	47	56.6	56.6	51.76	51.76	60.9	60.9
	hp	49.8	49.8	63.03	63.03	63.03	63.03	75.9	75.9	69.41	69.41	81.67	81.67
GENERAL													
Oil tank capacity	L	1000				1150				1400			
	gal	264				303.6				369.6			
Machine dimensions	m	9.5×3.3×2.9				9.5×3.3×2.9				9.6×3.3×2.9			
	in	374.02×129.92×114.17				374.02×129.92×114.17				377.95×129.92×114.17			
Max.mold weight	T	13				13				13			

1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to 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. Three kinds of screws are available for each model and the medium one is standard on the machine.
6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm^3] × 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.

UN990D1-N Machine Dimensions



UN990D1-N Platen Dimensions



Model	A		B		L	H1	H2	W	W1	W2	Sectional area of main power cord		Full-load current	Bearing capacity of foundation		Number of cooling water line port		Cooling water flow (mold excluded)		Cooling water pressure		Compressed air pressure	
	mm	in	mm	in	in	in	in	in	in	in	mm^2	in^2	A	t/m^2	lbm/in^2	n×L/min	n×gal/min	L/min	gal/min	bar	psi	bar	psi
UN990D1-N-IU4800	SR15	SR0.59	Ø4.5	Ø0.18	372.48	64.76	98.82	91.85	43.82	48.03	70	0.109	215.49									
UN990D1-N-IU6800	SR15	SR0.59	Ø4.5	Ø0.18	372.48	64.76	98.82	106.73	53.23	53.50	75	0.116	259.84	7.5	16500	(8+8)×11	(8+8)×2.9	100	26.4	3～4	43.5-58	5～6	72.5-87
UN990D1-N-IU9000	SR15	SR0.59	Ø4.5	Ø0.18	377.60	79.88	113.03	114.41	57.11	57.30	95	0.147	316.71									

UN1200D1-N Specifications

INJECTION UNIT																	
Model	UNIT	IU4800				IU6800				IU9000				IU10900			
Screw diameter	mm	84	92	100	108	92	100	108	116	100	108	116	125	108	116	125	135
	in	3.31	3.62	3.94	4.25	3.62	3.94	4.25	4.57	3.94	4.25	4.57	4.92	4.25	4.57	4.92	5.32
Theoretical shot volume	cm^3	2217	2659	3142	3664	3191	3770	4397	5073	4320	5038	5813	6748	5222	6024	6995	8159
	cu in	135.28	162.28	191.75	223.63	194.73	230.07	268.34	309.59	263.62	307.46	354.75	411.81	318.67	367.63	426.89	497.92
Shot weight	g	2039	2446	2890	3371	2936	3468	4045	4667	3974	4636	5348	6208	4804	5542	6435	7506
	oz	71.9	86.3	101.9	118.9	103.5	122.3	142.7	164.6	140.2	163.5	188.6	219	169.5	195.5	227	264.8
Injection pressure	Mpa	218	181	154	134	213	180	154	134	209	179	155	134	210	182	157	135
	psi	31560	26310	22336	19435	30864	26136	22336	19435	30298	25976	22481	19435	30458	26397	22771	19580
Screw L:D ratio		21.9	20	21.6	20	21.7	22	21.5	20	21.6	20	21.6	20	23.7	22	21.6	20
Injection rate	cm^3/s	520	624	737	860	615	726	847	977	766	894	1031	1197	815	940	1092	1273
	cu in/s	31.73	38.08	44.98	52.48	37.53	44.31	51.69	59.62	46.75	54.56	62.92	73.05	49.74	57.37	66.64	77.69
Max. injection speed	mm/s	93.9				92.5				97.6				89			
	in/s	3.70				3.64				3.84				3.50			
Screw stroke	mm	400				480				550				570			
	in	15.75				18.90				21.65				22.44			
Max. screw speed	r/min	154				145				128				112			
Barrel heating zone number	PCS	6				7				7				8			

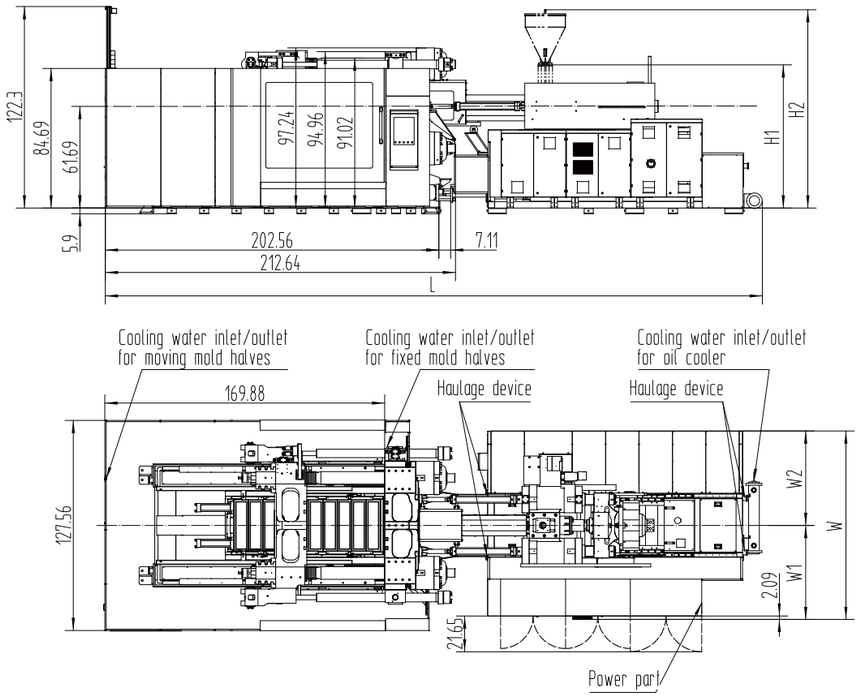
CLAMPING UNIT		
Clamping force	KN	11000
	US tons	1237
Opening force	KN	760
	US tons	85
Platen size	mm	1700×1660
	in	66.93×65.35
Space between tie-bars	mm	1270×1100
	in	50×43.31
Max. mold thickness	mm	1200
	in	47.24
Min. mold thickness	mm	600
	in	23.62
Opening stroke	mm	1800/1200
	in	70.87/47.24
Max.daylight	mm	2400
	in	94.49
Ejector force	KN	274
	US tons	31
Ejector stroke	mm	360
	in	14.17
Ejector number	PCS	25

POWER UNIT																	
System pressure	Mpa	17.5/30				17.5/30				17.5/30				17.5/30			
	psi	2538/4351				2538/4351				2538/4351				2538/4351			
Motor	kW	66+7.5				89+7.5				110+7.5				89+37+7.5			
	hp	88.51+10.06				119.35+10.06				147.51+10.06				119.35+49.62+10.06			
Total power	kW	110.6	110.6	120.5	120.5	143.5	143.5	153.1	153.1	169.3	169.3	178.4	178.4	199.9	199.9	204.1	204.1
	hp	148.31	148.31	161.59	161.59	192.43	192.43	205.31	205.31	227.03	227.03	239.23	239.23	268.07	268.07	273.7	273.7
Heating capacity	kW	37.14	37.14	47	47	47	47	56.6	56.6	51.76	51.76	60.9	60.9	66.37	66.37	70.63	70.63
	hp	49.8	49.8	63.03	63.03	63.03	63.03	75.9	75.9	69.41	69.41	81.67	81.67	89	89	94.71	94.71

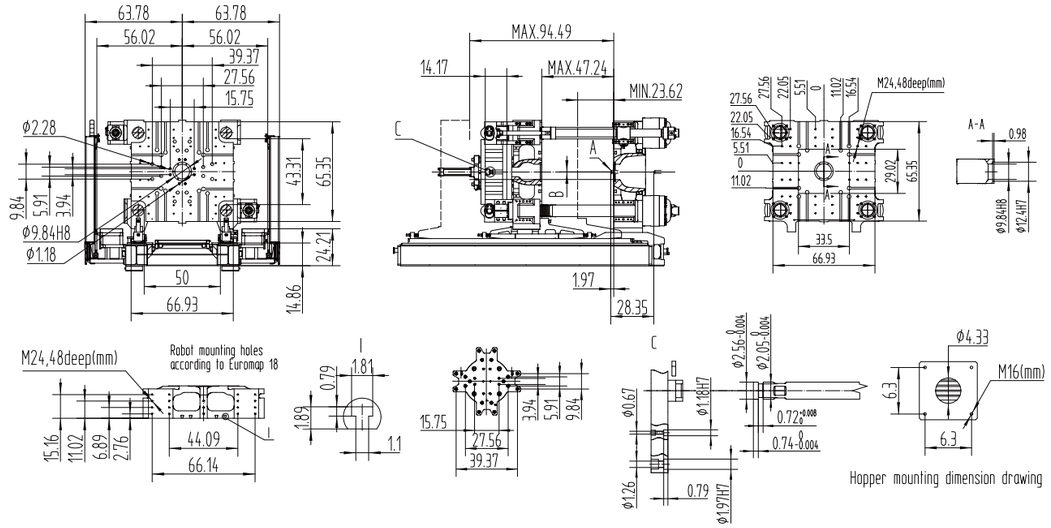
GENERAL					
Oil tank capacity	L	1000	1150	1400	1600
	gal	264	303.6	369.6	422.4
Machine dimensions	m	10×3.3×3.1	10×3.3×3.1	10.1×3.3×3.1	10.7×3.3×3.1
	in	393.7×129.92×122.05	393.7×129.92×122.05	397.64×129.92×122.05	421.26×129.92×122.05
Max.mold weight	T	16	16	16	16

1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to 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. Three kinds of screws are available for each model and the medium one is standard on the machine.
6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm^3] × 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.

UN1200D1-N Machine Dimensions



UN1200D1-N Platen Dimensions



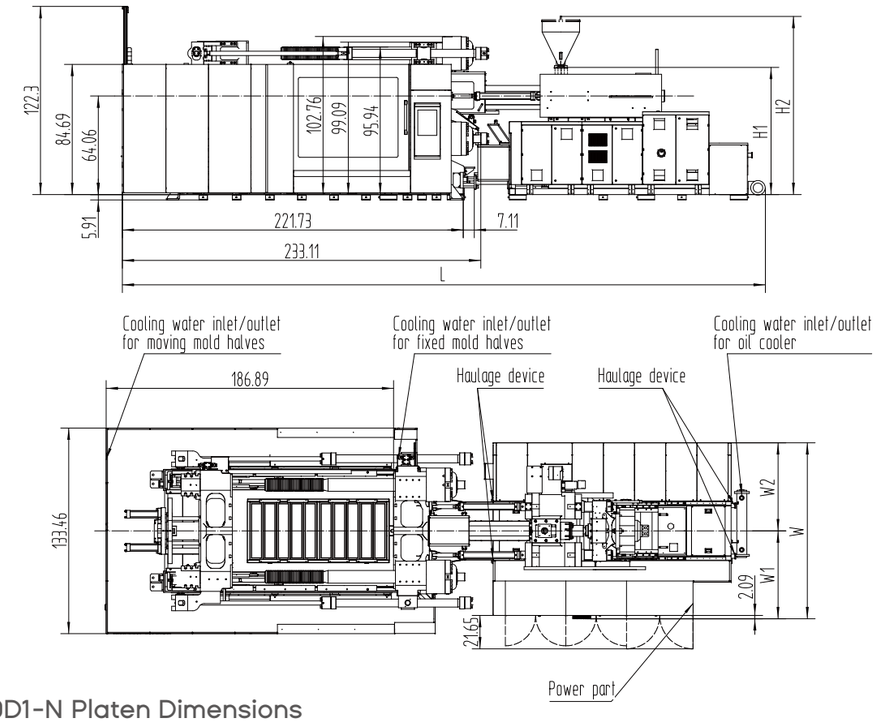
Model	A		B		L	H1	H2	W	W1	W2	Sectional area of main power cord		Full-load current	Bearing capacity of foundation		Number of cooling water line port		Cooling water flow (mold excluded)		Cooling water pressure		Compressed air pressure	
	mm	in	mm	in	in	in	in	in	in	in	mm^2	in^2	A	t/m^2	lbm/in^2	nxL/min	nxgal/min	L/min	gal/min	bar	psi	bar	psi
UN1200D1-N-IU4800	SR15	SR0.59	Ø4	Ø0.16	393.86	68.98	103.03	91.85	43.82	48.03	70	0.109	215.49	8	17600	(8+8)×11	(8+8)×2.9	100	26.4	3～4	43.5-58	5～6	72.5-87
UN1200D1-N-IU6800	SR15	SR0.59	Ø4	Ø0.16	393.86	68.98	103.03	106.73	53.23	53.50	75	0.116	259.84										
UN1200D1-N-IU9000	SR15	SR0.59	Ø4.5	Ø0.18	398.98	84.09	117.24	114.41	57.11	57.30	95	0.147	316.71										
UN1200D1-N-IU10900	SR20	SR0.79	Ø6	Ø0.24	417.48	85.47	118.62	114.41	57.11	57.30	120	0.186	370.88										

UN1300D1-N Specifications

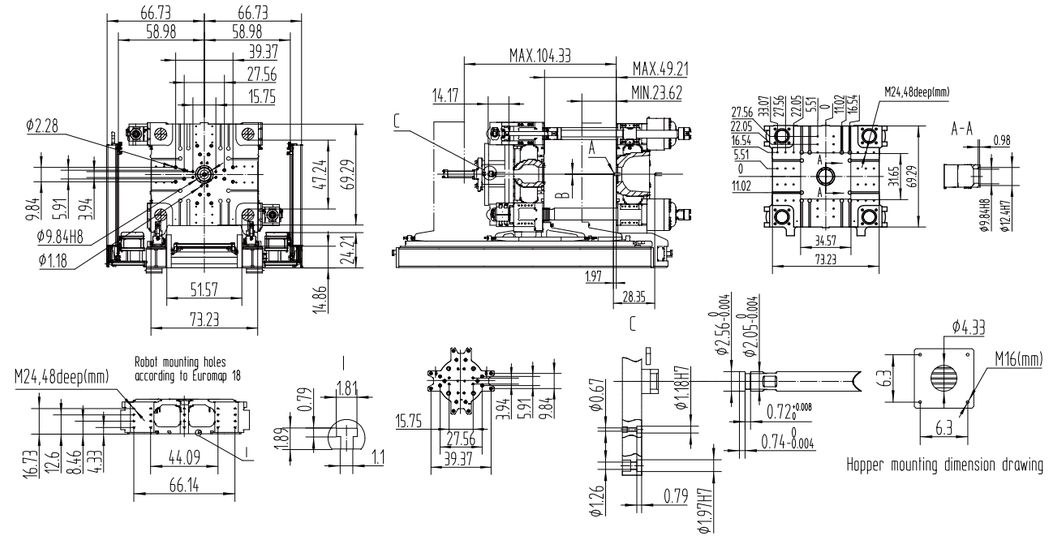
Model	UNIT	IU4800				IU6800				IU9000				IU10900			
INJECTION UNIT																	
Screw diameter	mm	84	92	100	108	92	100	108	116	100	108	116	125	108	116	125	135
	in	3.31	3.62	3.94	4.25	3.62	3.94	4.25	4.57	3.94	4.25	4.57	4.92	4.25	4.57	4.92	5.32
Theoretical shot volume	cm^3	2217	2659	3142	3664	3191	3770	4397	5073	4320	5038	5813	6748	5222	6024	6995	8159
	cu in	135.28	162.28	191.75	223.63	194.73	230.07	268.34	309.59	263.62	307.46	354.75	411.81	318.67	367.63	426.89	497.92
Shot weight	g	2039	2446	2890	3371	2936	3468	4045	4667	3974	4636	5348	6208	4804	5542	6435	7506
	oz	71.9	86.3	101.9	118.9	103.5	122.3	142.7	164.6	140.2	163.5	188.6	219	169.5	195.5	227	264.8
Injection pressure	Mpa	218	181	154	134	213	180	154	134	209	179	155	134	210	182	157	135
	psi	31560	26310	22336	19435	30864	26136	22336	19435	30298	25976	22481	19435	30458	26397	22771	19580
Screw L:D ratio		21.9	20	21.6	20	21.7	22	21.5	20	21.6	20	21.6	20	23.7	22	21.6	20
Injection rate	cm^3/s	520	624	737	860	615	726	847	977	766	894	1031	1197	815	940	1092	1273
	cu in/s	31.73	38.08	44.98	52.48	37.53	44.31	51.69	59.62	46.75	54.56	62.92	73.05	49.74	57.37	66.64	77.69
Max. injection speed	mm/s	93.9				92.5				97.6				89			
	in/s	3.70				3.64				3.84				3.50			
Screw stroke	mm	400				480				550				570			
	in	15.75				18.90				21.65				22.44			
Max. screw speed	r/min	154				145				128				112			
Barrel heating zone number	PCS	6				7				7				8			
CLAMPING UNIT																	
Clamping force	KN	12000															
	US tons	1350															
Opening force	KN	875															
	US tons	98															
Platen size	mm	1860×1760															
	in	73.23×69.29															
Space between tie-bars	mm	1310×1200															
	in	51.57×47.24															
Max. mold thickness	mm	1250															
	in	49.21															
Min. mold thickness	mm	600															
	in	23.62															
Opening stroke	mm	2050/1400															
	in	80.71/55.12															
Max.daylight	mm	2650															
	in	104.33															
Ejector force	KN	274															
	US tons	31															
Ejector stroke	mm	360															
	in	14.17															
Ejector number	PCS	25															
POWER UNIT																	
System pressure	Mpa	17.5/30				17.5/30				17.5/30				17.5/30			
	psi	2538/4351				2538/4351				2538/4351				2538/4351			
Motor	kW	66+7.5				89+7.5				110+7.5				89+37+7.5			
	hp	88.51+10.06				119.35+10.06				147.51+10.06				119.35+49.62+10.06			
Total power	kW	110.6	110.6	120.5	120.5	143.5	143.5	153.1	153.1	169.3	169.3	178.4	178.4	199.9	199.9	204.1	204.1
	hp	148.31	148.31	161.59	161.59	192.43	192.43	205.31	205.31	227.03	227.03	239.23	239.23	268.07	268.07	273.7	273.7
Heating capacity	kW	37.14	37.14	47	47	47	47	56.6	56.6	51.76	51.76	60.9	60.9	66.37	66.37	70.63	70.63
	hp	49.8	49.8	63.03	63.03	63.03	63.03	75.9	75.9	69.41	69.41	81.67	81.67	89	89	94.71	94.71
GENERAL																	
Oil tank capacity	L	1000				1150				1400				1600			
	gal	264				303.6				369.6				422.4			
Machine dimensions	m	10.5×3.4×3.1				10.5×3.4×3.1				10.6×3.4×3.1				11.1×3.4×3.1			
	in	413.39×133.86×122.05				413.39×133.86×122.05				417.32×133.86×122.05				437.01×133.86×122.05			
Max.mold weight	T	20				20				20				20			

1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to 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. Three kinds of screws are available for each model and the medium one is standard on the machine.
6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm^3] × 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.

UN1300D1-N Machine Dimensions



UN1300D1-N Platen Dimensions



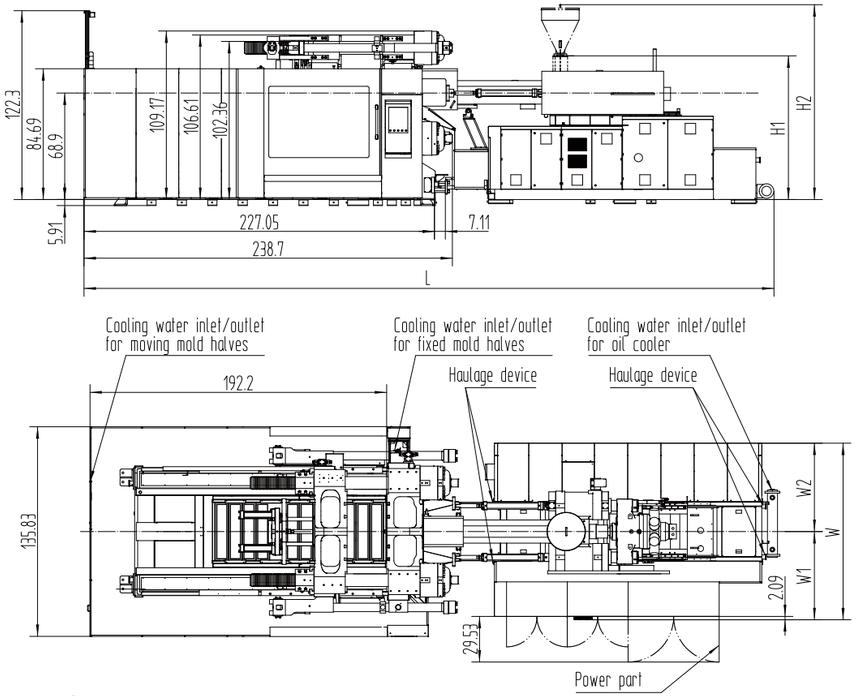
Model	A		B		L	H1	H2	W	W1	W2	Sectional area of main power cord		Full-load current	Bearing capacity of foundation		Number of cooling water line port		Cooling water flow (mold excluded)		Cooling water pressure		Compressed air pressure	
	mm	in	mm	in	in	in	in	in	in	in	mm^2	in^2	A	t/m^2	lbm/in^2	n×L/min	n×gal/min	L/min	gal/min	bar	psi	bar	psi
UN1300D1-N-IU4800	SR15	SR0.59	Ø4	Ø0.18	413.03	68.98	105.39	91.85	43.82	48.03	70	0.109	215.49	8	17600	(8+8)×11	(8+8)×2.9	100	26.4	3～4	43.5-58	5～6	72.5-87
UN1300D1-N-IU6800	SR15	SR0.59	Ø4	Ø0.18	413.03	68.98	105.39	106.73	53.23	53.50	75	0.116	259.84										
UN1300D1-N-IU9000	SR15	SR0.59	Ø4.5	Ø0.18	418.15	84.09	119.61	114.41	57.11	57.30	95	0.147	316.71										
UN1300D1-N-IU10900	SR20	SR0.79	Ø6	Ø0.24	436.65	85.47	120.98	114.41	57.11	57.30	120	0.186	370.88										

UN1400D1-N Specifications

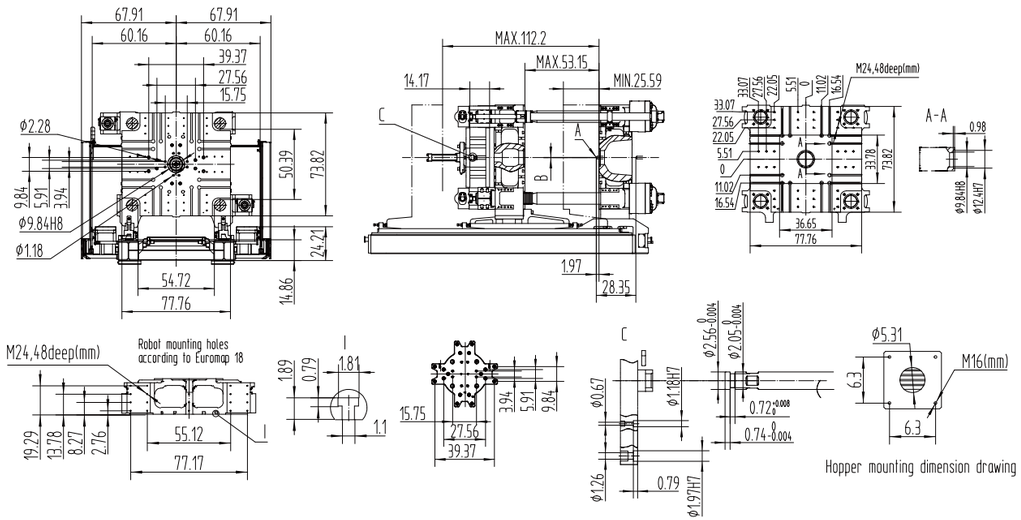
Model	UNIT	IU6800				IU9000				IU10900				IU14500		
INJECTION UNIT																
Screw diameter	mm	92	100	108	116	100	108	116	125	108	116	125	135	125	135	145
	in	3.62	3.94	4.25	4.57	3.94	4.25	4.57	4.92	4.25	4.57	4.92	5.32	4.92	5.32	5.71
Theoretical shot volume	cm^3	3191	3770	4397	5073	4320	5038	5813	6748	5222	6024	6995	8159	7977	9304	10733
	cu in	194.73	230.07	268.34	309.59	263.62	307.46	354.75	411.81	318.67	367.63	426.89	497.92	486.8	567.8	655.04
Shot weight	g	2936	3468	4045	4667	3974	4636	5348	6208	4804	5542	6435	7506	7339	8560	9875
	oz	103.5	122.3	142.7	164.6	140.2	163.5	188.6	219	169.5	195.5	227	264.8	258.9	301.9	348.3
Injection pressure	Mpa	213	180	154	134	209	179	155	134	210	182	157	135	181	156	135
	psi	30864	26136	22336	19435	30298	25976	22481	19435	30458	26397	22771	19580	26252	22626	19580
Screw L:D ratio		21.7	22	21.5	20	21.6	20	21.6	20	23.7	22	21.6	20	23.6	22	20
Injection rate	cm^3/s	615	726	847	977	766	894	1031	1197	815	940	1092	1273	1312	1531	1766
	cu in/s	37.53	44.31	51.69	59.62	46.75	54.56	62.92	73.05	49.74	57.37	66.64	77.69	80.07	93.4	107.77
Max. injection speed	mm/s	92.5				97.6				89				107		
	in/s	3.64				3.84				3.50				4.21		
Screw stroke	mm	480				550				570				650		
	in	18.90				21.65				22.44				25.59		
Max. screw speed	r/min	145				128				112				120		
Barrel heating zone number	PCS	7				7				8				8		
CLAMPING UNIT																
Clamping force	KN	13000														
	US tons	1462														
Opening force	KN	875														
	US tons	98														
Platen size	mm	1975×1875														
	in	77.76×73.82														
Space between tie-bars	mm	1390×1280														
	in	54.72×50.39														
Max. mold thickness	mm	1350														
	in	53.15														
Min. mold thickness	mm	650														
	in	25.59														
Opening stroke	mm	2200/1500														
	in	86.61/59.06														
Max.daylight	mm	2850														
	in	112.2														
Ejector force	KN	274														
	US tons	31														
Ejector stroke	mm	360														
	in	14.17														
Ejector number	PCS	25														
POWER UNIT																
System pressure	Mpa	17.5/30				17.5/30				17.5/30				17.5/30		
	psi	2538/4351				2538/4351				2538/4351				2538/4351		
Motor	kW	89+7.5				110+7.5				89+37+7.5				89+66+11		
	hp	119.35+10.06				147.51+10.06				119.35+49.62+10.06				119.35+88.51+14.75		
Total power	kW	143.5	143.5	153.1	153.1	169.3	169.3	178.4	178.4	199.9	199.9	204.1	204.1	253.7		
	hp	192.43	192.43	205.31	205.31	227.03	227.03	239.23	239.23	268.07	268.07	273.7	273.7	340.21		
Heating capacity	kW	47	47	56.6	56.6	51.76	51.76	60.9	60.9	66.37	66.37	70.63	70.63	87.7		
	hp	63.03	63.03	75.9	75.9	69.41	69.41	81.67	81.67	89	89	94.71	94.71	117.61		
GENERAL																
Oil tank capacity	L	1150				1400				1600				2100		
	gal	303.6				369.6				422.4				554.4		
Machine dimensions	m	10.8×3.5×3.1				10.9×3.5×3.2				11.4×3.5×3.2				11.7×3.5×3.5		
	in	425.2×137.8×122.05				429.13×137.8×125.98				448.82×137.8×125.98				460.63×137.8×137.8		
Max.mold weight	T	23				23				23				23		

1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to 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. Three kinds of screws are available for each model and the medium one is standard on the machine.
6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm^3] × 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.

UN1400D1-N Machine Dimensions



UN1400D1-N Platen Dimensions



Model	A		B		L	H1	H2	W	W1	W2	Sectional area of main power cord		Full-load current	Bearing capacity of foundation		Number of cooling water line port		Cooling water flow (mold excluded)		Cooling water pressure		Compressed air pressure	
	mm	in	mm	in	in	in	in	in	in	in	mm^2	in^2	A	t/m^2	lbm/in^2	nxL/min	nxgal/min	L/min	gal/min	bar	psi	bar	psi
UN1400D1-N-IU6800	SR15	SR0.59	Ø4.5	Ø0.18	423.46	76.18	110.24	106.73	53.23	53.50	75	0.116	259.84	8	17600	(8+8)×11	(8+8)×2.9	100	26.4	3～4	43.5-58	5～6	72.5-87
UN1400D1-N-IU9000	SR15	SR0.59	Ø4.5	Ø0.18	428.58	91.30	124.45	114.41	57.11	57.30	95	0.147	316.71										
UN1400D1-N-IU10900	SR20	SR0.79	Ø6	Ø0.18	447.09	92.68	125.83	114.41	57.11	57.30	120	0.186	370.88										
UN1400D1-N-IU14500	SR20	SR0.79	Ø8	Ø0.24	459.88	97.36	136.22	123.86	60.94	62.91	150	0.233	470.42					250	66				

UN1550D1-N Specifications

INJECTION UNIT																
Model	UNIT	IU6800				IU9000				IU10900				IU14500		
Screw diameter	mm	92	100	108	116	100	108	116	125	108	116	125	135	125	135	145
	in	3.62	3.94	4.25	4.57	3.94	4.25	4.57	4.92	4.25	4.57	4.92	5.32	4.92	5.32	5.71
Theoretical shot volume	cm^3	3191	3770	4397	5073	4320	5038	5813	6748	5222	6024	6995	8159	7977	9304	10733
	cu in	194.73	230.07	268.34	309.59	263.62	307.46	354.75	411.81	318.67	367.63	426.89	497.92	486.8	567.8	655.04
Shot weight	g	2936	3468	4045	4667	3974	4636	5348	6208	4804	5542	6435	7506	7339	8560	9875
	oz	103.5	122.3	142.7	164.6	140.2	163.5	188.6	219	169.5	195.5	227	264.8	258.9	301.9	348.3
Injection pressure	Mpa	213	180	154	134	209	179	155	134	210	182	157	135	181	156	135
	psi	30864	26136	22336	19435	30298	25976	22481	19435	30458	26397	22771	19580	26252	22626	19580
Screw L:D ratio		21.7	22	21.5	20	21.6	20	21.6	20	23.7	22	21.6	20	23.6	22	20
Injection rate	cm^3/s	615	726	847	977	766	894	1031	1197	815	940	1092	1273	1312	1531	1766
	cu in/s	37.53	44.31	51.69	59.62	46.75	54.56	62.92	73.05	49.74	57.37	66.64	77.69	80.07	93.43	107.77
Max. injection speed	mm/s	92.5				97.6				89				107		
	in/s	3.64				3.84				3.50				4.21		
Screw stroke	mm	480				550				570				650		
	in	18.90				21.65				22.44				25.59		
Max. screw speed	r/min	145				128				112				120		
Barrel heating zone number	PCS	7				7				8				8		

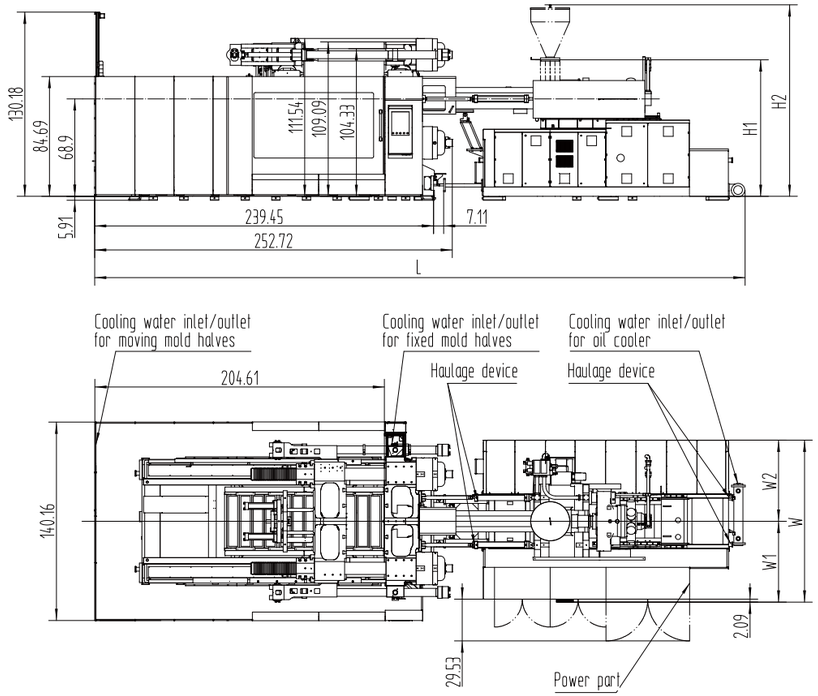
CLAMPING UNIT		
Clamping force	KN	14000
	US tons	1575
Opening force	KN	950
	US tons	107
Platen size	mm	2072×1972
	in	81.57×77.64
Space between tie-bars	mm	1470×1360
	in	57.87×53.54
Max. mold thickness	mm	1450
	in	57.09
Min. mold thickness	mm	700
	in	27.56
Opening stroke	mm	2350/1600
	in	92.52/62.99
Max.daylight	mm	3050
	in	120.08
Ejector force	KN	300
	US tons	34
Ejector stroke	mm	400
	in	15.75
Ejector number	PCS	25

POWER UNIT														
System pressure	Mpa	17.5/30				17.5/30				17.5/30				17.5/30
	psi	2538/4351				2538/4351				2538/4351				2538/4351
Motor	kW	89+7.5				110+7.5				89+37+7.5				89+66+11
	hp	119.35+10.06				147.51+10.06				119.35+49.62+10.06				119.35+88.51+14.75
Total power	kW	143.5	143.5	153.1	153.1	169.3	169.3	178.4	178.4	199.9	199.9	204.1	204.1	253.7
	hp	192.43	192.43	205.31	205.31	227.03	227.03	239.23	239.23	268.07	268.07	273.7	273.7	340.21
Heating capacity	kW	47	47	56.6	56.6	51.76	51.76	60.9	60.9	66.37	66.37	70.63	70.63	87.7
	hp	63.03	63.03	75.9	75.9	69.41	69.41	81.67	81.67	89	89	94.71	94.71	117.61

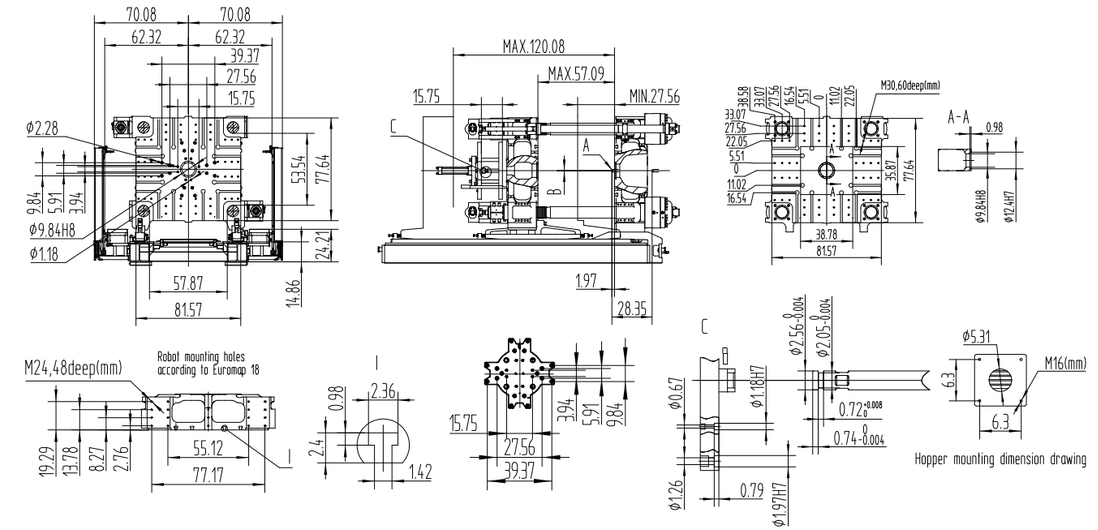
GENERAL					
Oil tank capacity	L	1150	1400	1600	2100
	gal	303.6	369.6	422.4	554.4
Machine dimensions	m	11.1×3.6×3.3	11.2×3.6×3.3	11.7×3.6×3.3	12×3.6×3.5
	in	437.01×141.73×129.92	440.94×141.73×129.92	460.63×141.73×129.92	472.44×141.73×137.8
Max.mold weight	T	27	27	27	27

1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to 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. Three kinds of screws are available for each model and the medium one is standard on the machine.
6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm^3] × 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.

UN1550D1-N Machine Dimensions



UN1550D1-N Platen Dimensions



Model	A		B		L	H1	H2	W	W1	W2	Sectional area of main power cord		Full-load current	Bearing capacity of foundation		Number of cooling water line port		Cooling water flow (mold excluded)		Cooling water pressure		Compressed air pressure	
	mm	in	mm	in	in	in	in	in	in	in	mm^2	in^2	A	t/m^2	lbf/in^2	n×L/min	n×gal/min	L/min	gal/min	bar	psi	bar	psi
UN1550D1-N-IU6800	SR15	SR0.59	Ø4.5	Ø0.18	435.91	76.18	110.24	106.73	53.23	53.50	75	0.116	259.84	8	17600	(8+8)×11	(8+8)×2.9	100	26.4	3～4	43.5-58	5～6	72.5-87
UN1550D1-N-IU9000	SR15	SR0.59	Ø4.5	Ø0.18	441.02	91.30	124.45	114.41	57.11	57.30	95	0.147	316.71										
UN1550D1-N-IU10900	SR20	SR0.79	Ø6	Ø0.18	459.53	92.68	125.83	114.41	57.11	57.30	120	0.186	370.88										
UN1550D1-N-IU14500	SR20	SR0.79	Ø8	Ø0.24	472.32	97.36	136.22	123.86	60.94	62.91	150	0.233	470.42					250	66				

UN1750D1-N Specifications

INJECTION UNIT																
Model	UNIT	IU9000				IU10900				IU14500			IU18500			
Screw diameter	mm	100	108	116	125	108	116	125	135	125	135	145	135	145	155	165
	in	3.94	4.25	4.57	4.92	4.25	4.57	4.92	5.32	4.92	5.32	5.71	5.32	5.71	6.10	6.50
Theoretical shot volume	cm^3	4320	5038	5813	6748	5222	6024	6995	8159	7977	9304	10733	10020	11559	13208	14968
	cu in	263.62	307.46	354.75	411.81	318.67	367.63	426.89	497.92	486.8	567.8	655.04	611.48	705.43	806.05	913.45
Shot weight	g	3974	4636	5348	6208	4804	5542	6435	7506	7339	8560	9875	9218	10634	12152	13770
	oz	140.2	163.5	188.6	219	169.5	195.5	227	264.8	258.9	301.9	348.3	325.1	375.1	428.6	485.7
Injection pressure	Mpa	209	179	155	134	210	182	157	135	181	156	135	184	160	140	123
	psi	30298	25976	22481	19435	30458	26397	22771	19580	26252	22626	19580	26730	23177	20305	17840
Screw L:D ratio		21.6	20	21.6	20	23.7	22	21.6	20	23.6	22	20	23.6	22	22	20
Injection rate	cm^3/s	766	894	1031	1197	815	940	1092	1273	1312	1531	1766	1301	1502	1716	1981
	cu in/s	46.75	54.56	62.92	73.05	49.74	57.37	66.64	77.69	80.07	93.43	107.77	79.40	91.66	104.72	120.9
Max. injection speed	mm/s	97.6				89				107			91			
	in/s	3.84				3.50				4.21			3.58			
Screw stroke	mm	550				570				650			700			
	in	21.65				22.44				25.59			27.56			
Max. screw speed	r/min	128				112				120			120			
Barrel heating zone number	PCS	7				8				8			8			

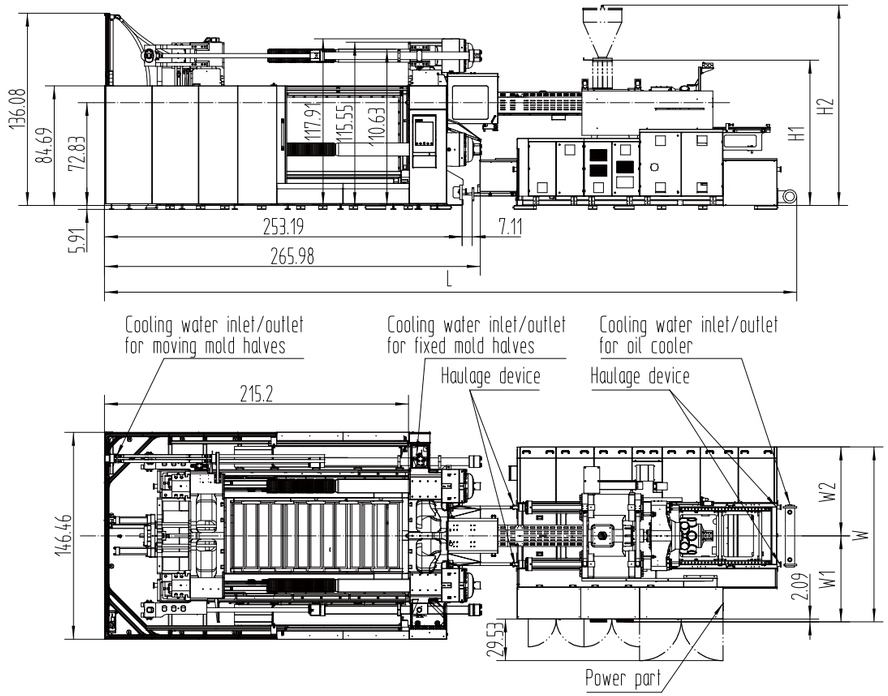
CLAMPING UNIT		
Clamping force	KN	16000
	US tons	1800
Opening force	KN	1100
	US tons	124
Platen size	mm	2200×2100
	in	86.61×82.68
Space between tie-bars	mm	1550×1450
	in	61.02×57.09
Max. mold thickness	mm	1550
	in	61.02
Min. mold thickness	mm	700
	in	27.56
Opening stroke	mm	2600/1750
	in	102.36/68.9
Max.daylight	mm	3300
	in	129.92
Ejector force	KN	300
	US tons	34
Ejector stroke	mm	400
	in	15.75
Ejector number	PCS	25

POWER UNIT																
System pressure	Mpa	17.5/30				17.5/30				17.5/30			17.5/30			
	psi	2538/4351				2538/4351				2538/4351			2538/4351			
Motor	kW	110+7.5				89+37+7.5				89+66+11			89+66+11			
	hp	147.51+10.06				119.35+49.62+10.06				119.35+88.51+14.75			119.35+88.51+14.75			
Total power	kW	169.3	169.3	178.4	178.4	199.9	199.9	204.1	204.1	253.7			263.8			
	hp	227.03	227.03	239.23	239.23	268.07	268.07	273.7	273.7	340.21			353.76			
Heating capacity	kW	51.76	51.76	60.9	60.9	66.37	66.37	70.63	70.63	87.7			97.8			
	hp	69.41	69.41	81.67	81.67	89	89	94.71	94.71	117.61			131.15			

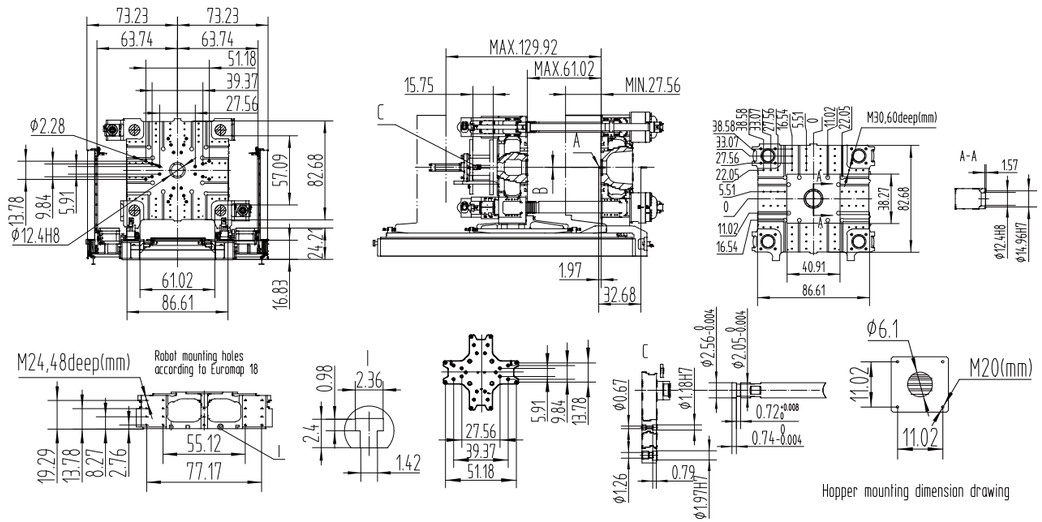
GENERAL					
Oil tank capacity	L	1400	1600	2100	2100
	gal	369.6	422.4	554.4	554.4
Machine dimensions	m	11.7×3.7×3.5	12.1×3.7×3.5	12.5×3.7×3.6	12.5×3.7×3.6
	in	460.63×145.67×137.8	476.38×145.67×137.8	492.13×145.67×141.73	492.13×145.67×141.73
Max.mold weight	T	34	34	34	34

1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to 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. Three kinds of screws are available for each model and the medium one is standard on the machine.
6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm^3] × 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.

UN1750D1-N Machine Dimensions



UN1750D1-N Platen Dimensions



Model	A		B		L	H1	H2	W	W1	W2	Sectional area of main power cord		Full-load current	Bearing capacity of foundation		Number of cooling water line port		Cooling water flow (mold excluded)		Cooling water pressure		Compressed air pressure	
	mm	in	mm	in	in	in	in	in	in	in	mm^2	in^2	A	t/m^2	lbf/in^2	n×L/min	n×gal/min	L/min	gal/min	bar	psi	bar	psi
UN1750D1-N-IU9000	SR15	SR0.59	Ø4.5	Ø0.18	458.70	95.24	128.39	114.41	57.11	57.30	95	0.147	316.71	10.5	23100	(8+8)×11	(8+8)×2.9	100	26.4	3～4	43.5-58	5～6	72.5-87
UN1750D1-N-IU10900	SR20	SR0.79	Ø6	Ø0.24	477.20	96.61	129.76	114.41	57.11	57.30	120	0.186	370.88										
UN1750D1-N-IU14500	SR20	SR0.79	Ø8	Ø0.31	490.00	101.30	140.16	123.86	60.94	62.91	150	0.233	470.42					250	66				
UN1750D1-N-IU18500	SR20	SR0.79	Ø8	Ø0.31	490.00	101.93	140.79	123.86	60.94	62.91	150	0.233	491.15										

UN2000D1-N Specifications

INJECTION UNIT																
Model	UNIT	IU9000				IU10900				IU14500			IU18500			
Screw diameter	mm	100	108	116	125	108	116	125	135	125	135	145	135	145	155	165
	in	3.94	4.25	4.57	4.92	4.25	4.57	4.92	5.32	4.92	5.32	5.71	5.32	5.71	6.10	6.50
Theoretical shot volume	cm^3	4320	5038	5813	6748	5222	6024	6995	8159	7977	9304	10733	10020	11559	13208	14968
	cu in	263.62	307.46	354.75	411.81	318.67	367.63	426.89	497.92	486.8	567.8	655.04	611.48	705.43	806.05	913.45
Shot weight	g	3974	4636	5348	6208	4804	5542	6435	7506	7339	8560	9875	9218	10634	12152	13770
	oz	140.2	163.5	188.6	219	169.5	195.5	227	264.8	258.9	301.9	348.3	325.1	375.1	428.6	485.7
Injection pressure	Mpa	209	179	155	134	210	182	157	135	181	156	135	184	160	140	123
	psi	30298	25976	22481	19435	30458	26397	22771	19580	26252	22626	19580	26730	23177	20305	17840
Screw L:D ratio		21.6	20	21.6	20	23.7	22	21.6	20	23.6	22	20	23.6	22	22	20
Injection rate	cm^3/s	766	894	1031	1197	815	940	1092	1273	1312	1531	1766	1301	1502	1716	1981
	cu in/s	46.75	54.56	62.92	73.05	49.74	57.37	66.64	77.69	80.07	93.43	107.77	79.40	91.66	104.72	120.9
Max. injection speed	mm/s	97.6				89				107			91			
	in/s	3.84				3.50				4.21			3.58			
Screw stroke	mm	550				570				650			700			
	in	21.65				22.44				25.59			27.56			
Max. screw speed	r/min	128				112				120			120			
Barrel heating zone number	PCS	7				8				8			8			

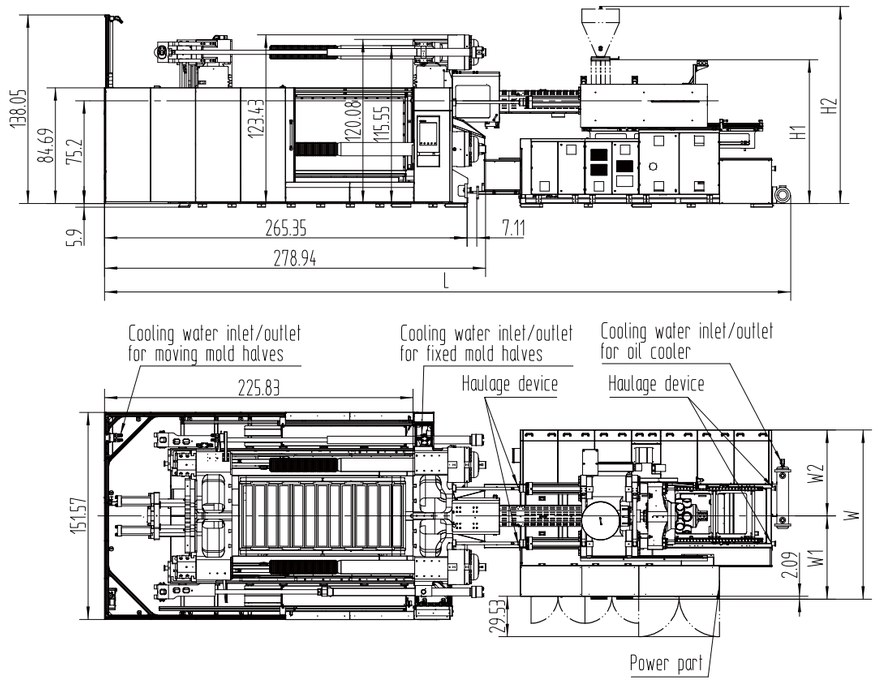
CLAMPING UNIT		
Clamping force	KN	18500
	US tons	2081
Opening force	KN	1230
	US tons	138
Platen size	mm	2310×2210
	in	90.94×87.01
Space between tie-bars	mm	1650×1550
	in	64.96×61.02
Max. mold thickness	mm	1600
	in	62.99
Min. mold thickness	mm	750
	in	29.53
Opening stroke	mm	2600/1750
	in	102.36/68.9
Max.daylight	mm	3350
	in	131.89
Ejector force	KN	460
	US tons	52
Ejector stroke	mm	430
	in	16.93
Ejector number	PCS	25

POWER UNIT																
System pressure	Mpa	17.5/30				17.5/30				17.5/30			17.5/30			
	psi	2538/4351				2538/4351				2538/4351			2538/4351			
Motor	kW	110+7.5				89+37+7.5				89+66+11			89+66+11			
	hp	147.51+10.06				119.35+49.62+10.06				119.35+88.51+14.75			119.35+88.51+14.75			
Total power	kW	169.3	169.3	178.4	178.4	199.9	199.9	204.1	204.1	253.7			263.8			
	hp	227.03	227.03	239.23	239.23	268.07	268.07	273.7	273.7	340.21			353.76			
Heating capacity	kW	51.76	51.76	60.9	60.9	66.37	66.37	70.63	70.63	87.7			97.8			
	hp	69.41	69.41	81.67	81.67	89	89	94.71	94.71	117.61			131.15			

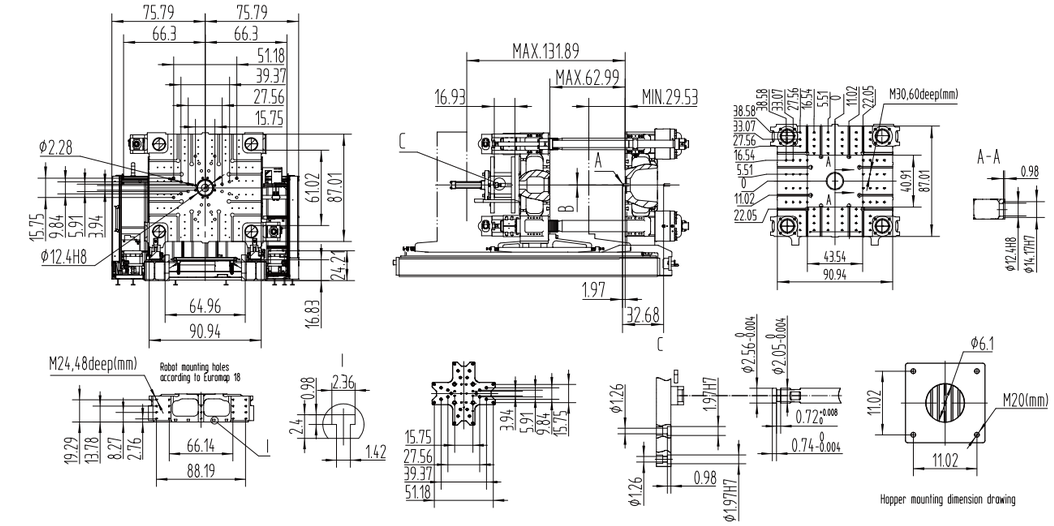
GENERAL					
Oil tank capacity	L	1400	1600	2100	2100
	gal	369.6	422.4	554.4	554.4
Machine dimensions	m	12×3.9×3.5	12.4×3.9×3.5	12.8×3.9×3.7	12.8×3.9×3.7
	in	472.44×153.54×137.8	488.19×153.54×137.8	503.94×153.54×145.67	503.94×153.54×145.67
Max.mold weight	T	42	42	42	42

1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to 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. Three kinds of screws are available for each model and the medium one is standard on the machine.
6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm^3] × 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.

UN2000D1-N Machine Dimensions



UN2000D1-N Platen Dimensions



Model	A		B		L	H1	H2	W	W1	W2	Sectional area of main power cord		Full-load current	Bearing capacity of foundation		Number of cooling water line port		Cooling water flow (mold excluded)		Cooling water pressure		Compressed air pressure	
	mm	in	mm	in	in	in	in	in	in	in	mm^2	in^2	A	t/m^2	lbf/in^2	n×L/min	n×gal/min	L/min	gal/min	bar	psi	bar	psi
UN2000D1-N-IU9000	SR15	SR0.59	Ø4.5	Ø0.18	470.87	97.60	130.75	114.41	57.11	57.30	95	0.147	316.71	10.5	23100	(8+8)×11	(8+8)×2.9	100	26.4	3～4	43.5-58	5～6	72.5-87
UN2000D1-N-IU10900	SR20	SR0.79	Ø6	Ø0.24	489.37	98.98	132.13	114.41	57.11	57.30	120	0.186	370.88										
UN2000D1-N-IU14500	SR20	SR0.79	Ø8	Ø0.31	502.20	103.66	142.52	123.86	60.94	62.91	150	0.233	470.42					250	66				
UN2000D1-N-IU18500	SR20	SR0.79	Ø8	Ø0.31	502.20	104.29	143.15	123.86	60.94	62.91	150	0.233	491.15										

UN2300D1-N Specifications

INJECTION UNIT																
Model	UNIT	IU10900				IU14500			IU18500				IU23750			IU37500
Screw diameter	mm	108	116	125	135	125	135	145	135	145	155	165	145	155	165	185
	in	4.25	4.57	4.92	5.32	4.92	5.32	5.71	5.32	5.71	6.10	6.50	5.71	6.10	6.50	7.28
Theoretical shot volume	cm^3	5222	6024	6995	8159	7977	9304	10733	10020	11559	13208	14968	12385	14152	16037	26343
	cu in	318.67	367.63	426.89	497.92	486.8	567.8	655.04	611.48	705.43	806.05	913.45	755.81	863.66	978.69	1607.65
Shot weight	g	4804	5542	6435	7506	7339	8560	9875	9218	10634	12152	13770	11394	13020	14756	24235
	oz	169.5	195.5	227	264.8	258.9	301.9	348.3	325.1	375.1	428.6	485.7	401.9	459.3	520.5	854.9
Injection pressure	Mpa	210	182	157	135	181	156	135	184	160	140	123	190	167	147	151
	psi	30458	26397	22771	19580	26252	22626	19580	26730	23177	20305	17840	27557	24221	21321	21901
Screw L:D ratio		23.7	22	21.6	20	23.6	22	20	23.6	22	22	20	23.5	22	20.1	22
Injection rate	cm^3/s	815	940	1092	1273	1312	1531	1766	1301	1502	1716	1981	1530	1748	1981	1932
	cu in/s	49.74	57.37	66.64	77.69	80.07	93.43	107.77	79.40	91.66	104.72	120.9	93.37	106.68	120.9	117.91
Max. injection speed	mm/s	89				107			91				92.7			71.9
	in/s	3.50				4.21			3.58				3.65			2.83
Screw stroke	mm	570				650			700				750			980
	in	22.44				25.59			27.56				29.53			38.58
Max. screw speed	r/min	112				120			120				120			80
Barrel heating zone number	PCS	8				8			8				10			10

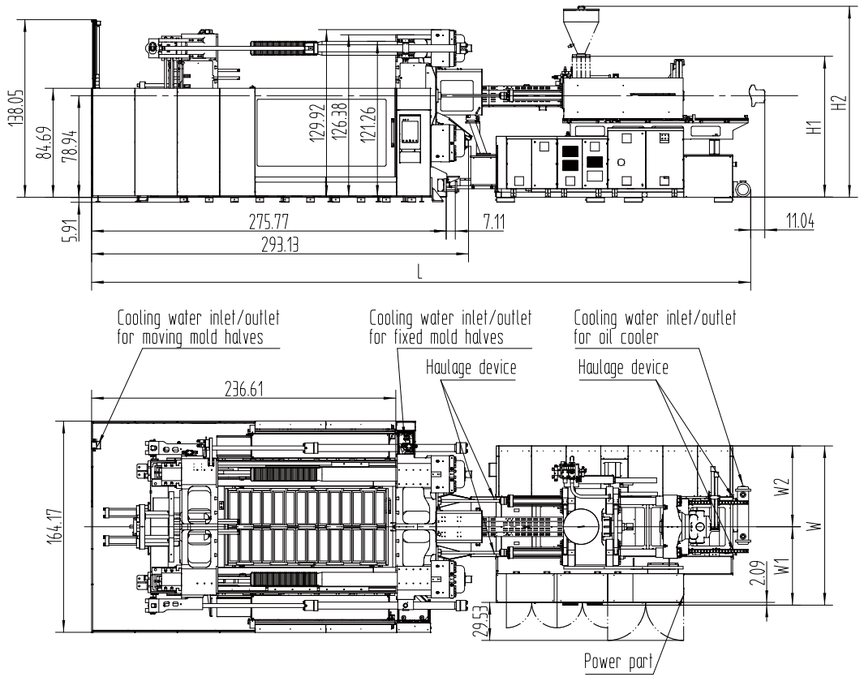
CLAMPING UNIT		
Clamping force	KN	21000
	US tons	2362
Opening force	KN	1380
	US tons	155
Platen size	mm	2620×2320
	in	103.15×91.34
Space between tie-bars	mm	1800×1600
	in	70.87×62.99
Max. mold thickness	mm	1700
	in	66.93
Min. mold thickness	mm	800
	in	31.5
Opening stroke	mm	2700/1800
	in	106.3/70.87
Max.daylight	mm	3500
	in	137.8
Ejector force	KN	460
	US tons	52
Ejector stroke	mm	430
	in	16.93
Ejector number	PCS	25

POWER UNIT						
System pressure	Mpa	17.5/30	17.5/30	17.5/30	17.5/30	17.5/30
	psi	2538/4351	2538/4351	2538/4351	2538/4351	2538/4351
Motor	kW	89+37+7.5	89+66+11	89+66+11	110+89+11	110+89+11
	hp	119.35+49.62+10.06	119.35+88.51+14.75	119.35+88.51+14.75	147.51+119.35+14.75	147.51+119.35+14.75
Total power	kW	199.9 199.9 204.1 204.1	253.7	263.8	322.4	357.5
	hp	268.07 268.07 273.7 273.7	340.21	353.76	432.34	479.41
Heating capacity	kW	66.37 66.37 70.63 70.63	87.7	97.8	112.4	147.5
	hp	89 89 94.71 94.71	117.61	131.15	150.73	197.8

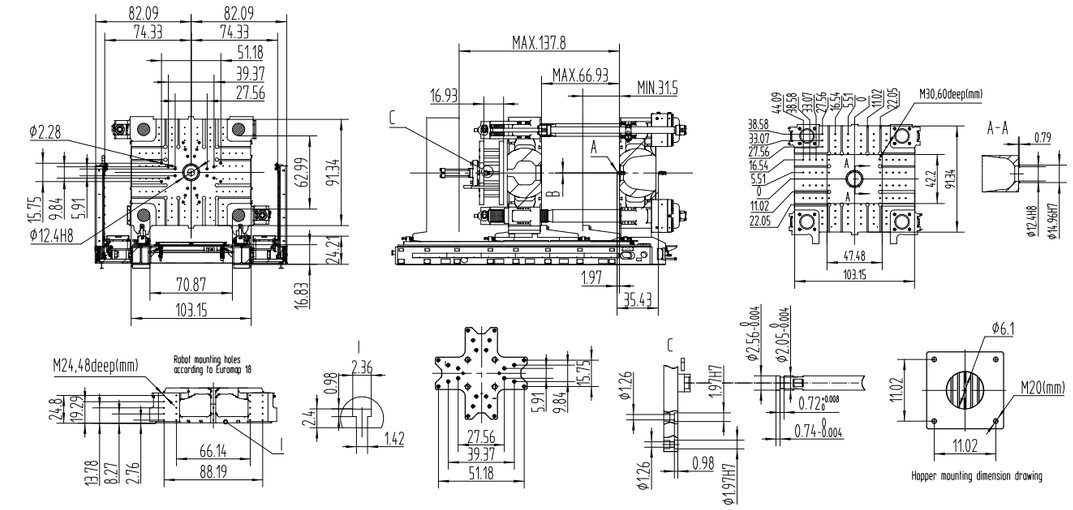
GENERAL						
Oil tank capacity	L	1600	2100	2100	2850	2850
	gal	422.4	554.4	554.4	752.4	752.4
Machine dimensions	m	12.7×4.2×3.5	13.0×4.2×3.8	13.0×4.2×3.8	15.5×4.2×3.9	15.5×4.2×3.9
	in	500×165.35×137.8	511.81×165.35×149.61	511.81×165.35×149.61	610.24×165.35×153.54	610.24×165.35×153.54
Max.mold weight	T	50	50	50	50	50

1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to 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. Three kinds of screws are available for each model and the medium one is standard on the machine.
6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm^3] × 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.

UN2300D1-N Machine Dimensions



UN2300D1-N Platen Dimensions



Model	A		B		L	H1	H2	W	W1	W2	Sectional area of main power cord		Full-load current	Bearing capacity of foundation		Number of cooling water line port		Cooling water flow (mold excluded)		Cooling water pressure		Compressed air pressure	
	mm	in	mm	in	in	in	in	in	in	in	mm^2	in^2	A	t/m^2	lbm/in^2	n×L/min	n×gal/min	L/min	gal/min	bar	psi	bar	psi
UN2300D1-N-IU10900	SR20	SR0.79	Ø6	Ø0.24	499.80	102.72	135.87	114.41	57.11	57.30	120	0.186	370.88					100	26.4				
UN2300D1-N-IU14500	SR20	SR0.79	Ø8	Ø0.31	512.64	107.40	146.26	123.86	60.94	62.91	150	0.233	470.42					250	66				
UN2300D1-N-IU18500	SR20	SR0.79	Ø8	Ø0.31	512.64	108.03	146.89	123.86	60.94	62.91	150	0.233	491.15	12.5	27500	(8+8)×11	(8+8)×2.9			3～4	43.5-58	5～6	72.5-87
UN2300D1-N-IU23750	SR25	SR0.98	Ø8	Ø0.31	609.25	108.43	148.03	144.11	72.74	71.38	185	0.287	652.49					350	92.4				
UN2300D1-N-IU37500	SR25	SR0.98	Ø8	Ø0.31	609.25	111.42	150.28	144.11	72.74	71.38	185	0.287	806.34										

UN2600D1-N Specifications

INJECTION UNIT													
Model	UNIT	IU14500			IU18500				IU23750			IU37500	IU50000
Screw diameter	mm	125	135	145	135	145	155	165	145	155	165	185	200
	in	4.92	5.32	5.71	5.32	5.71	6.10	6.50	5.71	6.10	6.50	7.28	7.87
Theoretical shot volume	cm^3	7977	9304	10733	10020	11559	13208	14968	12385	14152	16037	26343	35186
	cu in	486.8	567.8	655.04	611.48	705.43	806.05	913.45	755.81	863.66	978.69	1607.65	2147.32
Shot weight	g	7339	8560	9875	9218	10634	12152	13770	11394	13020	14756	24235	32371
	oz	258.9	301.9	348.3	325.1	375.1	428.6	485.7	401.9	459.3	520.5	854.9	1141.8
Injection pressure	Mpa	181	156	135	184	160	140	123	190	167	147	151	158
	psi	26252	22626	19580	26730	23177	20305	17840	27557	24221	21321	21901	22916
Screw L:D ratio		23.6	22	20	23.6	22	22	20	23.5	22	20.1	22	22
Injection rate	cm^3/s	1312	1531	1766	1301	1502	1716	1981	1530	1748	1981	1932	1843
	cu in/s	80.07	93.43	107.77	79.40	91.66	104.72	120.9	93.37	106.68	120.9	117.91	112.47
Max. injection speed	mm/s	107			91				92.7			71.9	58.7
	in/s	4.21			3.58				3.65			2.83	2.31
Screw stroke	mm	650			700				750			980	1120
	in	25.59			27.56				29.53			38.58	44.09
Max. screw speed	r/min	120			120				120			80	67
Barrel heating zone number	PCS	8			8				10			10	9

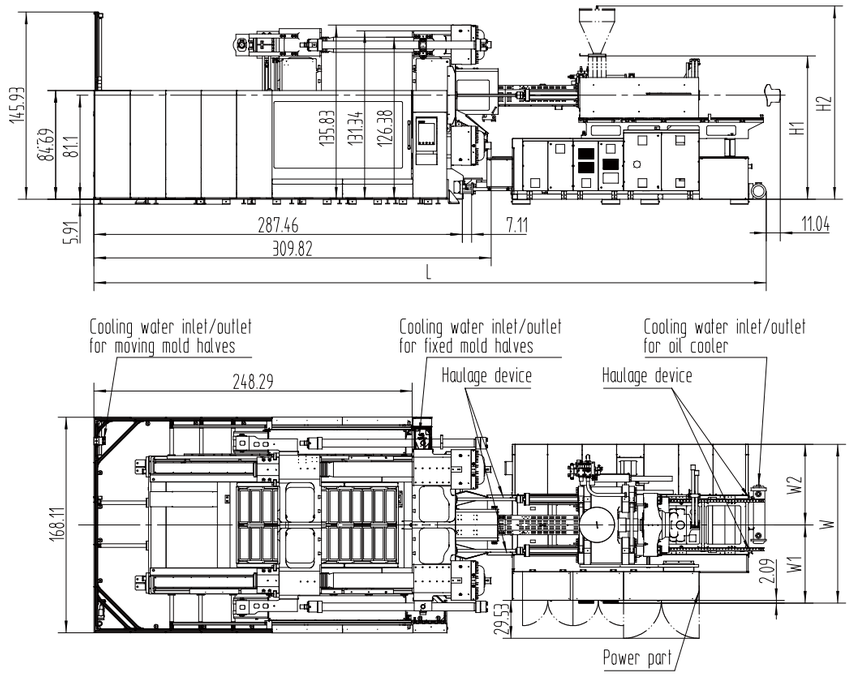
CLAMPING UNIT		
Clamping force	KN	24000
	US tons	2700
Opening force	KN	1640
	US tons	184
Platen size	mm	2682×2482
	in	105.59×97.72
Space between tie-bars	mm	1900×1700
	in	74.8×66.93
Max. mold thickness	mm	1800
	in	70.87
Min. mold thickness	mm	800
	in	31.5
Opening stroke	mm	3000/2000
	in	118.11/78.74
Max.daylight	mm	3800
	in	149.61
Ejector force	KN	460
	US tons	52
Ejector stroke	mm	430
	in	16.93
Ejector number	PCS	25

POWER UNIT						
System pressure	Mpa	17.5/30	17.5/30	17.5/30	17.5/30	17.5/30
	psi	2538/4351	2538/4351	2538/4351	2538/4351	2538/4351
Motor	kW	89+66+11	89+66+11	110+89+11	110+89+11	110+89+11
	hp	119.35+88.51+14.75	119.35+88.51+14.75	147.51+119.35+14.75	147.51+119.35+14.75	147.51+119.35+14.75
Total power	kW	253.7	263.8	322.4	357.5	403
	hp	340.21	353.76	432.34	479.41	540.42
Heating capacity	kW	87.7	97.8	112.4	147.5	193
	hp	117.61	131.15	150.73	197.8	258.81

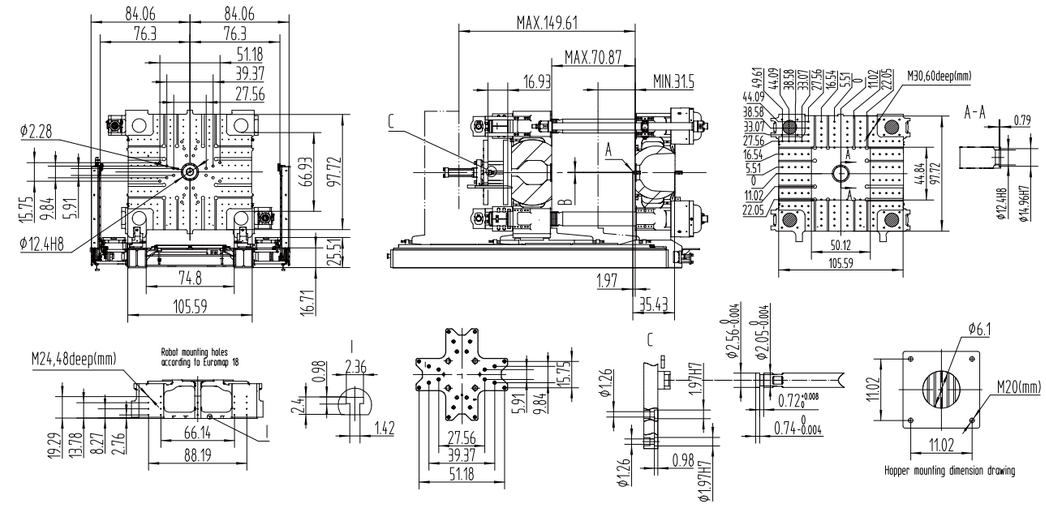
GENERAL						
Oil tank capacity	L	2100	2100	2850	2850	2850
	gal	554.4	554.4	752.4	752.4	752.4
Machine dimensions	m	13.3×4.3×3.8	13.3×4.3×3.8	15.8×4.3×3.9	15.8×4.3×3.9	16.5×4.3×4.0
	in	523.62×169.29×149.61	523.62×169.29×149.61	622.05×169.29×153.54	622.05×169.29×153.54	649.61×169.29×157.48
Max.mold weight	T	59	59	59	59	59

1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to 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. Three kinds of screws are available for each model and the medium one is standard on the machine.
6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm^3] × 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.

UN2600D1-N Machine Dimensions



UN2600D1-N Platen Dimensions



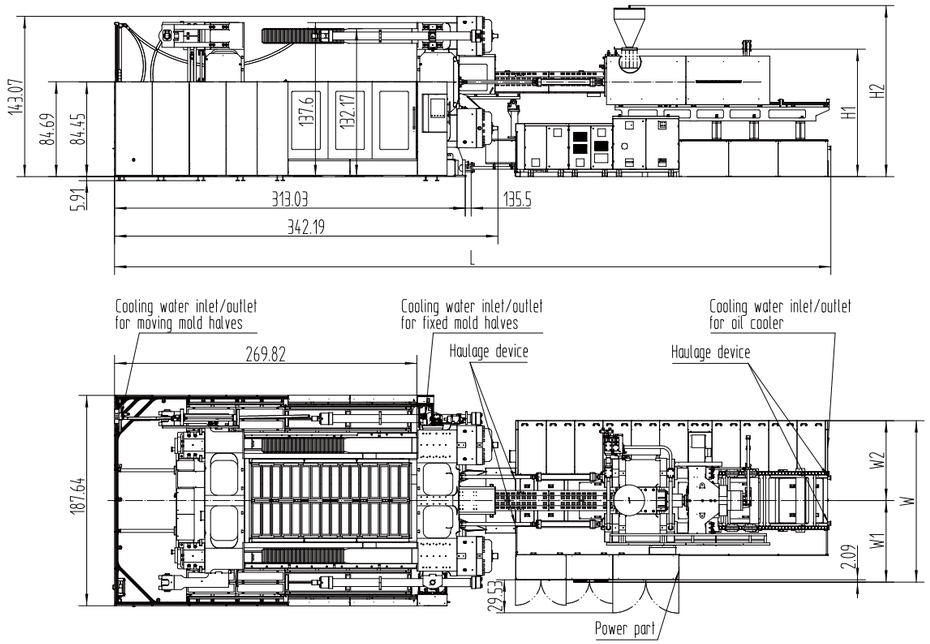
Model	A		B		L	H1	H2	W	W1	W2	Sectional area of main power cord		Full-load current	Bearing capacity of foundation		Number of cooling water line port		Cooling water flow (mold excluded)		Cooling water pressure		Compressed air pressure	
	mm	in	mm	in	in	in	in	in	in	in	mm^2	in^2	A	t/m^2	lbm/in^2	n×L/min	n×gal/min	L/min	gal/min	bar	psi	bar	psi
UN2600D1-N-IU14500	SR20	SR0.79	Ø8	Ø0.31	524.33	109.57	148.43	123.86	60.94	62.91	150	0.233	470.42					250	66				
UN2600D1-N-IU18500	SR20	SR0.79	Ø8	Ø0.31	524.33	110.20	149.06	123.86	60.94	62.91	150	0.233	491.15										
UN2600D1-N-IU23750	SR25	SR0.98	Ø8	Ø0.31	620.94	110.59	150.20	144.11	72.74	71.38	185	0.287	652.49	12.5	27500	(8+8)×11	(8+8)×2.9			3～4	43.5-58	5～6	72.5-87
UN2600D1-N-IU37500	SR25	SR0.98	Ø8	Ø0.31	620.94	113.58	152.44	144.11	72.74	71.38	185	0.287	806.34					350	92.4				
UN2600D1-N-IU50000	SR28	SR1.1	Ø12	Ø0.47	648.50	113.39	152.24	144.11	72.74	71.38	185	0.287	780.83										

UN3100D1-N Specifications

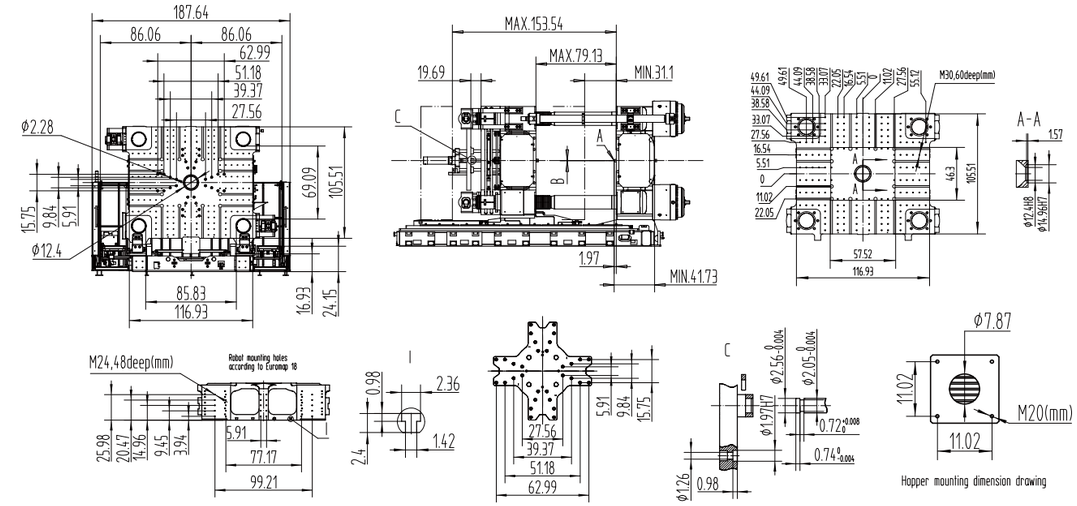
INJECTION UNIT										
Model	UNIT	IU18500				IU23750			IU37500	IU50000
Screw diameter	mm	135	145	155	165	145	155	165	185	200
	in	5.32	5.71	6.10	6.50	5.71	6.10	6.50	7.28	7.87
Theoretical shot volume	cm^3	10020	11559	13208	14968	12385	14152	16037	26343	35186
	cu in	611.48	705.43	806.05	913.45	755.81	863.66	978.69	1607.65	2147.32
Shot weight	g	9218	10634	12152	13770	11394	13020	14756	24235	32371
	oz	325.1	375.1	428.6	485.7	401.9	459.3	520.5	854.9	1141.8
Injection pressure	Mpa	184	160	140	123	190	167	147	151	158
	psi	26730	23177	20305	17840	27557	24221	21321	21901	22916
Screw L:D ratio		23.6	22	22	20	23.5	22	20.1	22	22
Injection rate	cm^3/s	1301	1502	1716	1981	1530	1748	1981	1932	1843
	cu in/s	79.40	91.66	104.72	120.9	93.37	106.68	120.9	117.91	112.47
Max. injection speed	mm/s	91				92.7			71.9	58.7
	in/s	3.58				3.65			2.83	2.31
Screw stroke	mm	700				750			980	1120
	in	27.56				29.53			38.58	44.09
Max. screw speed	r/min	120				120			80	67
Barrel heating zone number	PCS	8				10			10	9
CLAMPING UNIT										
Clamping force	KN	28500								
	US tons	3206								
Opening force	KN	2200								
	US tons	247								
Platen size	mm	2970×2680								
	in	116.93×105.51								
Space between tie-bars	mm	2180×1755								
	in	85.83×69.09								
Max. mold thickness	mm	2010								
	in	79.13								
Min. mold thickness	mm	790								
	in	31.1								
Opening stroke	mm	3110								
	in	122.44								
Max.daylight	mm	3900								
	in	153.54								
Ejector force	KN	460								
	US tons	52								
Ejector stroke	mm	500								
	in	19.69								
Ejector number	PCS	33								
POWER UNIT										
System pressure	Mpa	17.5/30				17.5/30			17.5/30	17.5/30
	psi	2538/4351				2538/4351			2538/4351	2538/4351
Motor	kW	89+66+11				110+89+11			110+89+11	110+89+11
	hp	119.35+88.51+14.75				147.51+119.35+14.75			147.51+119.35+14.75	147.51+119.35+14.75
Total power	kW	263.8				322.4			357.5	403
	hp	353.76				432.34			479.41	540.42
Heating capacity	kW	97.8				112.4			147.5	193
	hp	131.15				150.73			197.8	258.81
GENERAL										
Oil tank capacity	L	2100				2850			2850	2850
	gal	554.4				752.4			752.4	752.4
Machine dimensions	m	14.1×4.8×4.0				16.6×4.8×4.0			16.6×4.8×4.0	17.0×4.8×4.0
	in	555.12×188.98×157.48				653.54×188.98×157.48			653.54×188.98×157.48	669.29×188.98×157.48
Max.mold weight	T	75				75			75	75

1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to 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. Three kinds of screws are available for each model and the medium one is standard on the machine.
6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm^3] × 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.

UN3100D1-N Machine Dimensions



UN3100D1-N Platen Dimensions



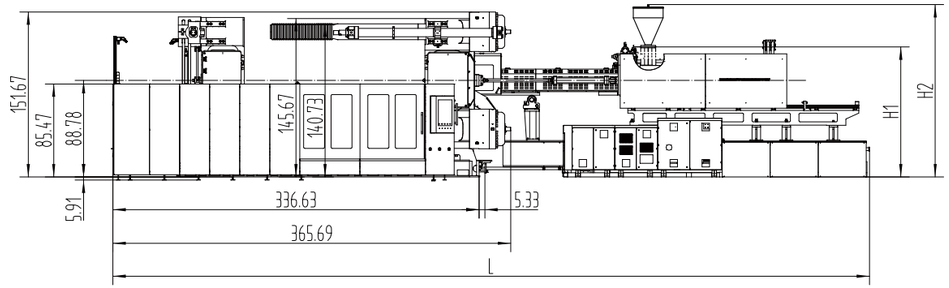
Model	A		B		L	H1	H2	W	W1	W2	Sectional area of main power cord		Full-load current	Bearing capacity of foundation		Number of cooling water line port		Cooling water flow (mold excluded)		Cooling water pressure		Compressed air pressure	
	mm	in	mm	in	in	in	in	in	in	in	mm^2	in^2	A	t/m^2	lbf/in^2	n×L/min	n×gal/min	L/min	gal/min	bar	psi	bar	psi
UN3100D1-N-IU18500	SR20	SR0.79	Ø8	Ø0.31	542.81	115.94	154.57	123.86	60.94	62.91	150	0.233	491.15	14.5	31900	(8+8)×11	(8+8)×2.9	250	66	3～4	43.5-58	5～6	72.5-87
UN3100D1-N-IU23750	SR25	SR0.98	Ø8	Ø0.31	639.43	116.34	155.20	144.11	72.74	71.38	185	0.287	652.49										
UN3100D1-N-IU37500	SR25	SR0.98	Ø8	Ø0.31	639.43	116.73	156.34	144.11	72.74	71.38	185	0.287	806.34					350	92.4				
UN3100D1-N-IU50000	SR28	SR1.1	Ø12	Ø0.47	654.78	119.72	158.58	144.11	72.74	71.38	185	0.287	780.83										

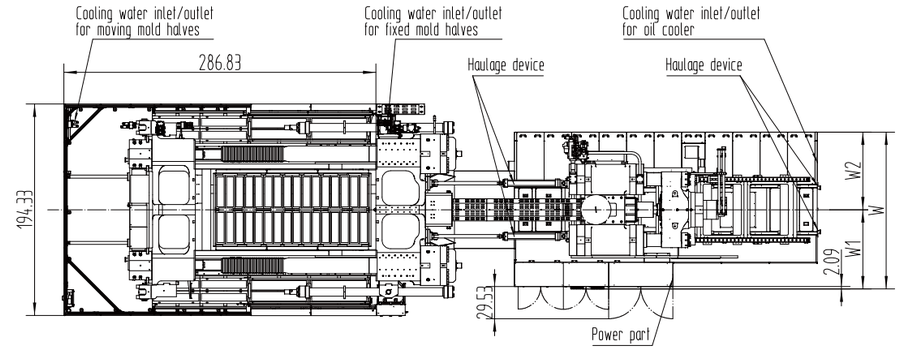
UN3700D1-N Specifications

INJECTION UNIT										
Model	UNIT	IU18500				IU23750			IU37500	IU50000
Screw diameter	mm	135	145	155	165	145	155	165	185	200
	in	5.32	5.71	6.10	6.50	5.71	6.10	6.50	7.28	7.87
Theoretical shot volume	cm^3	10020	11559	13208	14968	12385	14152	16037	26343	35186
	cu in	611.48	705.43	806.05	913.45	755.81	863.66	978.69	1607.65	2147.32
Shot weight	g	9218	10634	12152	13770	11394	13020	14756	24235	32371
	oz	325.1	375.1	428.6	485.7	401.9	459.3	520.5	854.9	1141.8
Injection pressure	Mpa	184	160	140	123	190	167	147	151	158
	psi	26730	23177	20305	17840	27557	24221	21321	21901	22916
Screw L:D ratio		23.6	22	22	20	23.5	22	20.1	22	22
Injection rate	cm^3/s	1301	1502	1716	1981	1530	1748	1981	1932	1843
	cu in/s	79.4	91.66	104.72	120.9	93.37	106.68	120.90	117.91	112.47
Max. injection speed	mm/s	91				92.7			71.9	58.7
	in/s	3.58				3.65			2.83	2.31
Screw stroke	mm	700				750			980	1120
	in	27.56				29.53			38.58	44.09
Max. screw speed	r/min	120				120			80	67
Barrel heating zone number	PCS	8				10			10	9
CLAMPING UNIT										
Clamping force	KN	34000								
	US tons	3825								
Opening force	KN	2550								
	US tons	287								
Platen size	mm	3220×2810								
	in	126.77×110.63								
Space between tie-bars	mm	2240×1900								
	in	88.19×74.8								
Max. mold thickness	mm	2000								
	in	78.74								
Min. mold thickness	mm	1100								
	in	43.31								
Opening stroke	mm	3100								
	in	122.05								
Max.daylight	mm	4400								
	in	173.23								
Ejector force	KN	460								
	US tons	52								
Ejector stroke	mm	500								
	in	19.69								
Ejector number	PCS	33								
POWER UNIT										
System pressure	Mpa	17.5/30				17.5/30			17.5/30	17.5/30
	psi	2538/4351				2538/4351			2538/4351	2538/4351
Motor	kW	89+66+11				110+89+11			110+89+11	110+89+11
	hp	119.35+88.51+14.75				147.51+119.35+14.75			147.51+119.35+14.75	147.51+119.35+14.75
Total power	kW	263.8				322.4			357.5	403
	hp	353.76				432.34			479.41	540.42
Heating capacity	kW	97.8				112.4			147.5	193
	hp	131.15				150.73			197.8	258.81
GENERAL										
Oil tank capacity	L	2100				2850			2850	2850
	gal	554.4				752.4			752.4	752.4
Machine dimensions	m	14.1×4.8×4.0				17.2×5.0×4.1			17.2×5.0×4.1	17.6×5.0×4.2
	in	555.12×188.98×157.48				677.17×196.85×161.42			677.17×196.85×161.42	692.91×196.85×165.35
Max.mold weight	T	75				81			81	81

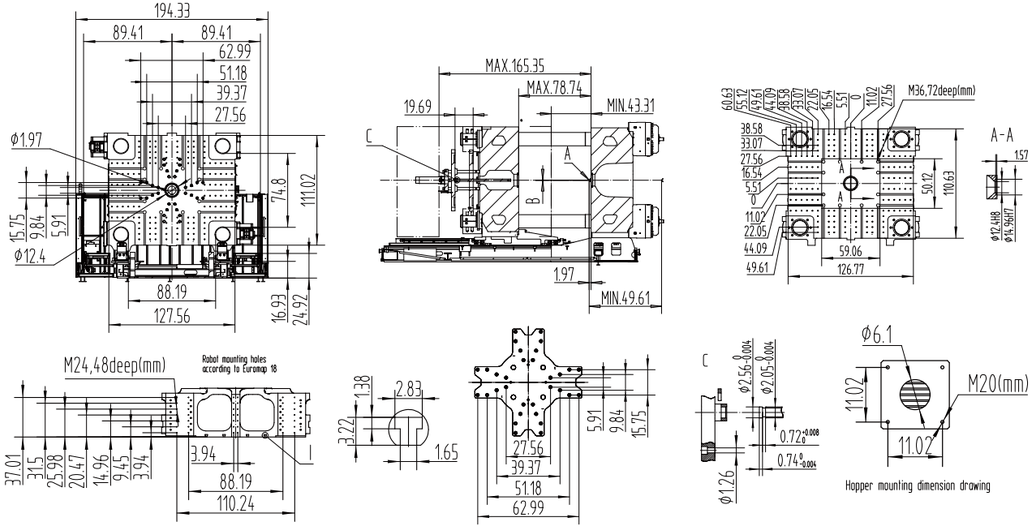
1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to opening stroke with maximum mold height.
3. Mold-bearing capacity of the 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. Three kinds of screws are available for each model and the medium one is standard on the machine.
6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm^3] × 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.

UN3700D1-N Machine Dimensions





UN3700D1-N Platen Dimensions



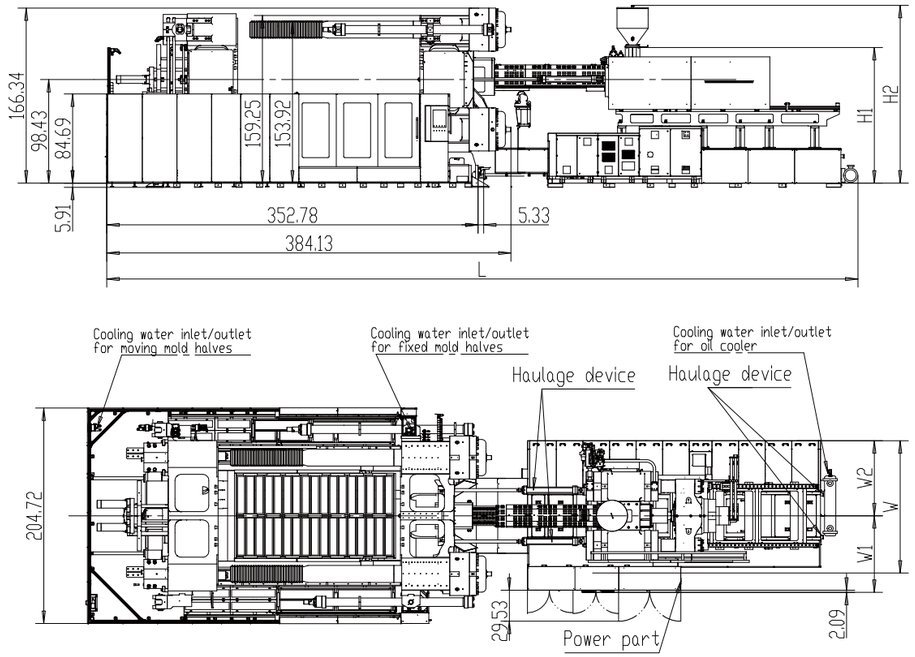
Model	A		B		L	H1	H2	W	W1	W2	Sectional area of main power cord		Full-load current	Bearing capacity of foundation		Number of cooling water line port		Cooling water flow (mold excluded)		Cooling water pressure				Compressed air pressure	
	mm	in	mm	in	in	in	in	in	in	in	mm^2	in^2	A	t/m^2	lb/in^2	n×L/min	n×gal/min	L/min	gal/min	bar	psi	bar	psi	bar	psi
UN3700D1-N-IU18500	SR20	SR0.79	Ø8	Ø0.31	583.58	119.25	158.86	123.86	60.94	62.91	150	0.233	491.15	14.5	31900	(8+8)×11	(8+8)×2.9	250	66	3～4	43.5-58	5～6	72.5-87			
UN3700D1-N-IU23750	SR25	SR0.98	Ø8	Ø0.31	680.16	119.65	159.25	144.11	72.74	71.38	185	0.287	652.49													
UN3700D1-N-IU37500	SR25	SR0.98	Ø8	Ø0.31	680.16	121.02	160.63	144.11	72.74	71.38	185	0.287	806.34					350	92.4							
UN3700D1-N-IU50000	SR28	SR1.1	Ø12	Ø0.47	695.51	122.44	162.05	144.11	72.74	71.38	185	0.287	780.83													

UN4400D1-N Specifications

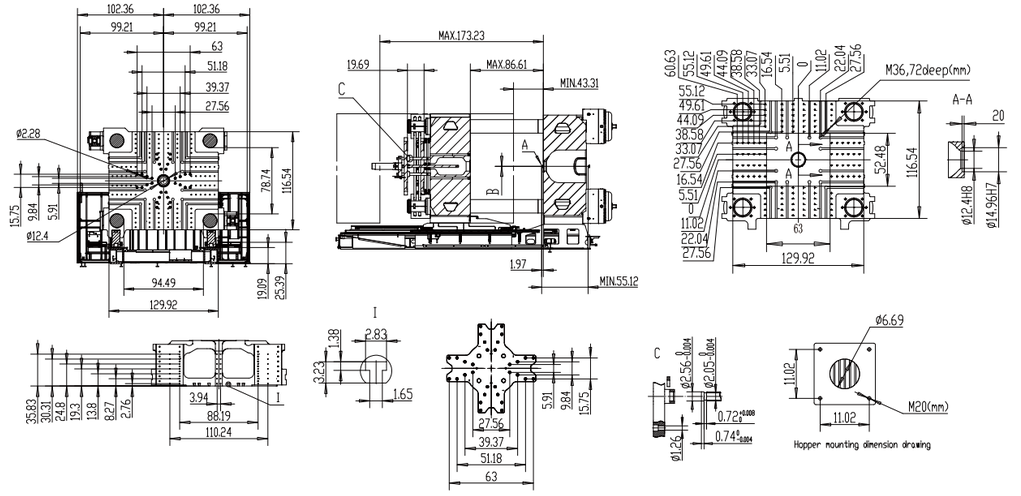
Model	UNIT	IU23750			IU37500	IU50000
INJECTION UNIT						
Screw diameter	mm	145	155	165	185	200
	in	5.71	6.10	6.50	7.28	7.87
Theoretical shot volume	cm^3	12385	14152	16037	26343	35186
	cu in	755.81	863.66	978.69	1607.65	2147.32
Shot weight	g	11394	13020	14756	24235	32371
	oz	401.9	459.3	520.5	854.9	1141.8
Injection pressure	Mpa	190	167	147	151	158
	psi	27557	24221	21321	21901	22916
Screw L:D ratio		23.5	22	20.1	22	22
Injection rate	cm^3/s	1530	1748	1981	1932	1843
	cu in/s	93.37	106.68	120.90	117.91	112.47
Max. injection speed	mm/s	92.7			71.9	58.7
	in/s	3.65			2.83	2.31
Screw stroke	mm	750			980	1120
	in	29.53			38.58	44.09
Max. screw speed	r/min	120			80	67
Barrel heating zone number	PCS	10			10	9
CLAMPING UNIT						
Clamping force	KN	40000				
	US tons	4499				
Opening force	KN	3170				
	US tons	357				
Platen size	mm	3300×2960				
	in	131.1×116.54				
Space between tie-bars	mm	2400×2000				
	in	94.49×78.74				
Max. mold thickness	mm	2200				
	in	86.61				
Min. mold thickness	mm	1100				
	in	43.31				
Opening stroke	mm	3300				
	in	129.92				
Max.daylight	mm	4400				
	in	173.23				
Ejector force	KN	460				
	US tons	52				
Ejector stroke	mm	500				
	in	19.69				
Ejector number	PCS	33				
POWER UNIT						
System pressure	Mpa	17.5/30			17.5/30	17.5/30
	psi	2538/4351			2538/4351	2538/4351
Motor	kW	110+89+11			110+89+11	110+89+11
	hp	147.51+119.35+14.75			147.51+119.35+14.75	147.51+119.35+14.75
Total power	kW	322.4			357.5	403
	hp	432.34			479.41	540.42
Heating capacity	kW	112.4			147.5	193
	hp	150.73			197.8	258.81
GENERAL						
Oil tank capacity	L	2850			2850	2850
	gal	752.4			752.4	752.4
Machine dimensions	m	17.6×5.2×4.2			17.6×5.2×4.2	18.1×5.2×4.2
	in	692.91×204.72×165.35			692.91×204.72×165.35	712.05×204.72×165.35
Max.mold weight	T	81			81	81

1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In the case of opening stroke, data before the slash refer to mold opening stroke with minimum mold height; data after the slash refer to 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. Three kinds of screws are available for each model and the medium one is standard on the machine.
6. The injection unit data are in international units and calculated as follows: theoretical shot volume [cm^3] × 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.

UN4400D1-N Machine Dimensions



UN4400D1-N Platen Dimensions



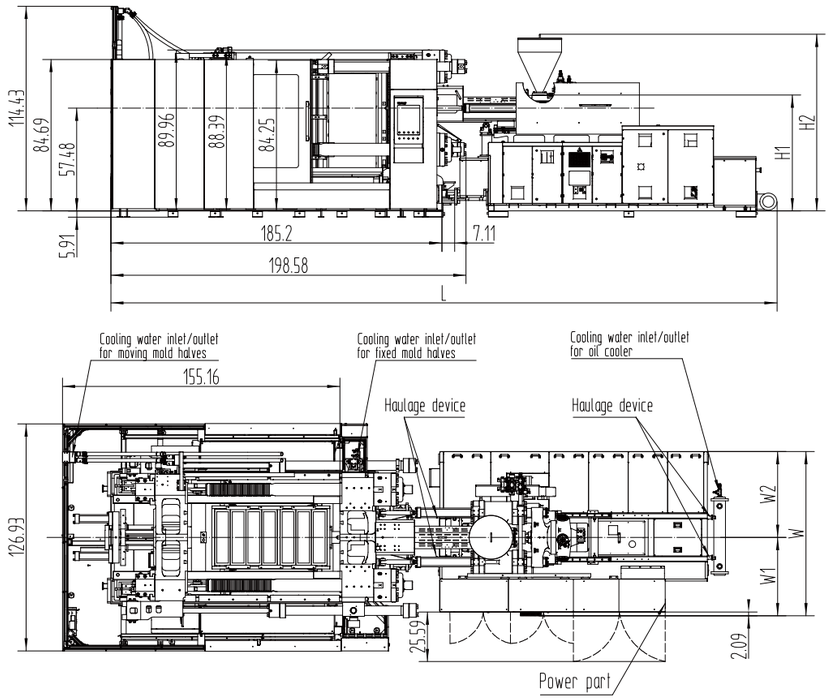
Model	A		B		L	H1	H2	W	W1	W2	Sectional area of main power cord		Full-load current	Bearing capacity of foundation		Number of cooling water line port		Cooling water flow (mold excluded)		Cooling water pressure		Compressed air pressure	
	mm	in	mm	in	in	in	in	in	in	in	mm^2	in^2	A	t/m^2	lbm/in^2	n×L/min	n×gal/min	L/min	gal/min	bar	psi	bar	psi
UN4400D1-N-IU23750	SR25	SR0.98	Ø8	Ø0.31	692.36	129.29	166.34	144.11	72.74	71.38	185	0.287	652.49											
UN4400D1-N-IU37500	SR25	SR0.98	Ø8	Ø0.31	692.36	130.67	167.72	144.11	72.74	71.38	185	0.287	806.34	14.5	31900	(8+8)×11	(8+8)×2.9	350	92.4	3～4	43.5-58	5～6	72.5-87
UN44000D1-N-IU50000	SR28	SR1.1	Ø12	Ø0.47	712.05	132.05	169.09	144.11	72.74	71.38	185	0.287	780.83											

UN770WD1-N Specifications

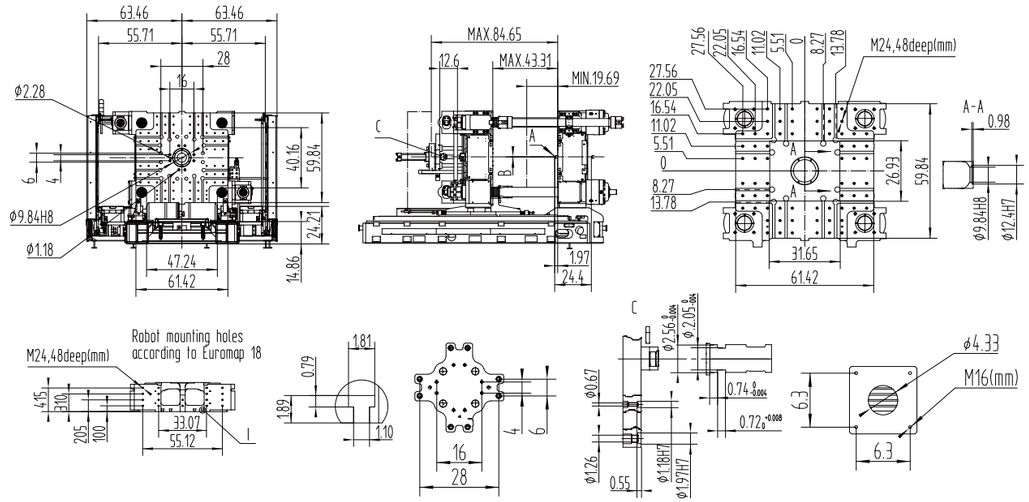
Model	UNIT	IU2695			IU3330			IU4800				IU6800			
INJECTION UNIT															
Screw diameter	mm	68	76	84	76	84	92	84	92	100	108	92	100	108	116
	in	2.68	2.99	3.31	2.99	3.31	3.62	3.31	3.62	3.94	4.25	3.62	3.94	4.25	4.57
Theoretical shot volume	cm^3	1198	1497	1829	1678	2050	2460	2217	2659	3142	3664	3191	3770	4397	5073
	cu in	73.14	91.36	111.61	102.4	125.11	150.13	135.28	162.28	191.75	223.63	194.73	230.07	268.34	309.59
Shot weight	g	1103	1377	1683	1544	1886	2263	2039	2446	2890	3371	2936	3468	4045	4667
	oz	38.9	48.6	59.3	54.5	66.5	79.8	71.9	86.3	101.9	118.9	103.5	122.3	142.7	164.6
Injection pressure	Mpa	225	180	147	199	162	136	218	181	154	134	213	180	154	134
	psi	32604	26092	21364	28863	23496	19725	31560	26310	22336	19435	30864	26136	22336	19435
Screw L:D ratio		22.3	20	20	22.1	20	20	21.9	20	21.6	20	21.7	22	21.5	20
Injection rate	cm^3/s	382	478	584	430	526	632	520	624	737	860	615	726	847	980
	cu in/s	23.31	29.17	35.64	26.24	32.10	38.57	31.73	38.08	44.98	52.48	37.53	44.31	51.69	59.81
Max. injection speed	mm/s	105			95			93				92.5			
	in/s	4.15			3.74			3.66				3.64			
Screw stroke	mm	330			370			400				480			
	in	12.99			14.57			15.75				18.90			
Max. screw speed	r/min	184			147			154				145			
Barrel heating zone number	PCS	6			6			6				7			
CLAMPING UNIT															
Clamping force	KN	7000													
	US tons	787													
Opening force	KN	500													
	US tons	56													
Platen size	mm	1560×1520													
	in	61.42×59.84													
Space between tie-bars	mm	1200×1020													
	in	47.24×40.16													
Max. mold thickness	mm	1100													
	in	43.31													
Min. mold thickness	mm	500													
	in	19.69													
Opening stroke	mm	1650/1050													
	in	64.96/41.34													
Max.daylight	mm	2150													
	in	84.65													
Ejector force	KN	220													
	US tons	25													
Ejector stroke	mm	320													
	in	12.6													
Ejector number	PCS	17													
POWER UNIT															
System pressure	Mpa	17.5/30			17.5/30			17.5/30				17.5/30			
	psi	2538/4351			2538/4351			2538/4351				2538/4351			
Motor	kW	60+5.5			60+5.5			66+5.5				89+7.5			
	hp	80.46+7.38			80.46+7.38			88.51+7.38				88.51+7.38			
Total power	kW	91.9	91.9	96.4	98.6	98.6	101.7	108.6	108.6	118.5	118.5	143.5	143.5	153.1	153.1
	hp	123.24	123.24	129.27	132.22	132.22	136.38	145.63	145.63	158.91	158.91	192.43	192.43	205.31	205.31
Heating capacity	kW	26.4	26.4	30.9	33.1	33.1	36.2	37.14	37.14	47	47	47	47	56.6	56.6
	hp	35.4	35.4	41.44	44.39	44.39	48.54	49.8	49.8	63.03	63.03	63.03	63.03	75.9	75.9
GENERAL															
Oil tank capacity	L	750			750			1000				1150			
	gal	198			198			264				303.6			
Machine dimensions	m	9.4×3.3×2.9			9.4×3.3×2.9			9.4×3.3×2.9				9.5×3.3×2.9			
	in	370.08×129.92×114.17			370.08×129.92×114.17			370.08×129.92×114.17				374.02×129.92×114.17			
Max.mold weight	T	13			13			13				13			

1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In terms of the mold opening stroke, data before the slash refer to mold opening stroke with the minimum mold height; data after the slash refer to opening stroke with the maximum mold height.
3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.
4. The shot weight is calculated with GPPS and it is 0.92 times of the theoretical shot volume.
5. Three types of screw diameters are available for each model and the medium one 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 highlighted figures are standard specifications of clamping unit and injection unit.
8. Because of constant technical improvement, specifications are subject to change without prior notice.

UN770WD1-N Machine Dimensions



UN770WD1-N Platen Dimensions



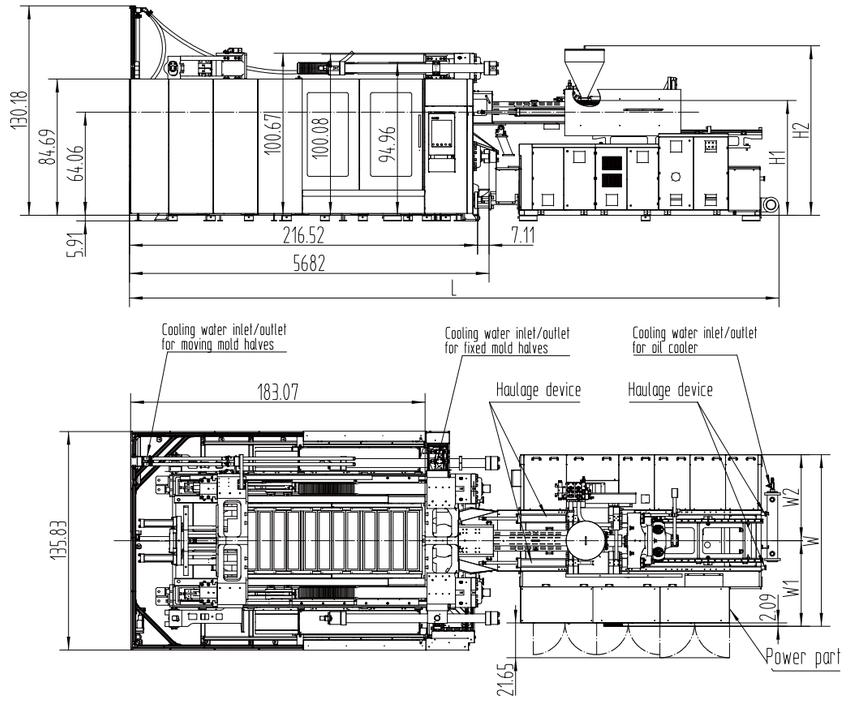
Model	A		B		L	H1	H2	W	W1	W2	Sectional area of main power cord		Full-load current	Bearing capacity of foundation		Number of cooling water line port		Cooling water flow (mold excluded)		Cooling water pressure		Compressed air pressure	
	mm	in	mm	in	in	in	in	in	in	in	mm^2	in^2	A	t/m^2	lbm/in^2	n×L/min	n×gal/min	L/min	gal/min	bar	psi	bar	psi
UN770WD1-IU2695	SR15	SR0.59	Ø4	Ø0.16	326.02	69.17	103.23	86.54	41.85	44.69	70	0.109	176.74	7.5	16500	(8+8)×11	(8+8)×2.9	100	26.4	3～4	43.5-58	5～6	72.5-87
UN770WD1-IU3330	SR15	SR0.59	Ø4	Ø0.16	326.02	69.17	103.54	86.54	41.85	44.69	70	0.109	186.89										
UN770WD1-IU4800	SR15	SR0.59	Ø4.5	Ø0.18	372.56	64.76	98.82	91.85	43.82	48.03	70	0.109	215.49										
UN770WD1-IU6800	SR15	SR0.59	Ø4.5	Ø0.18	372.56	64.76	98.82	106.73	53.23	53.50	75	0.116	259.84										

UN990WD1-N Specifications

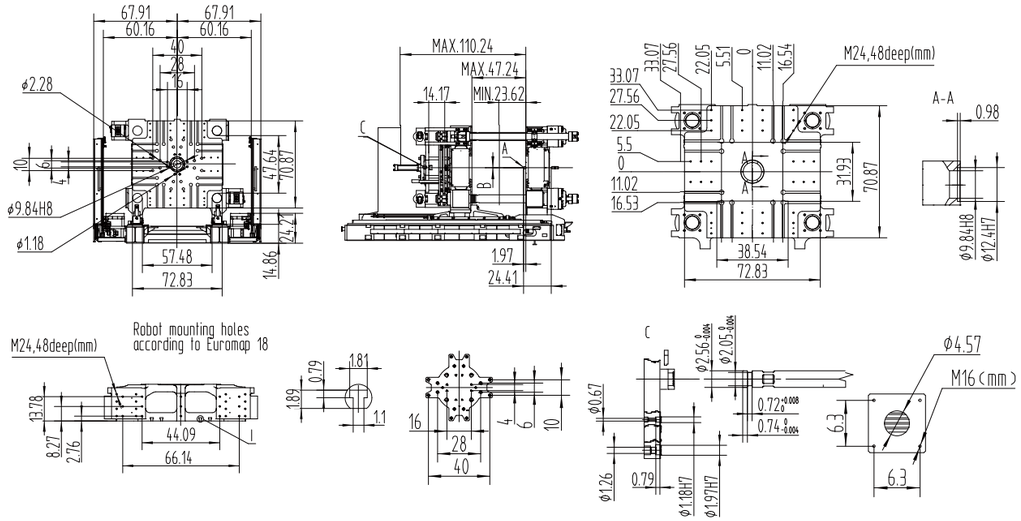
Model	UNIT	IU4800				IU6800				IU9000			
INJECTION UNIT													
Screw diameter	mm	84	92	100	108	92	100	108	116	100	108	116	125
	in	3.31	3.62	3.94	4.25	3.62	3.94	4.25	4.57	3.94	4.25	4.57	4.92
Theoretical shot volume	cm^3	2217	2659	3142	3664	3191	3770	4397	5073	4320	5038	5813	6748
	cu in	135.28	162.28	191.75	223.63	194.73	230.07	268.34	309.59	263.62	307.46	354.75	411.81
Shot weight	g	2039	2446	2890	3371	2936	3468	4045	4667	3974	4636	5348	6208
	oz	71.9	86.3	101.9	118.9	103.5	122.3	142.7	164.6	140.2	163.5	188.6	219
Injection pressure	Mpa	218	181	154	134	213	180	154	134	209	179	155	134
	psi	31560	26310	22336	19435	30864	26136	22336	19435	30298	25976	22481	19435
Screw L:D ratio		21.9	20	21.6	20	21.7	22	21.5	20	21.6	20	21.6	20
Injection rate	cm^3/s	520	624	737	860	615	726	847	980	766	894	1031	1197
	cu in/s	31.73	38.08	44.98	52.48	37.53	44.31	51.69	59.81	46.75	54.56	62.92	73.05
Max. injection speed	mm/s	93				92.5				97.6			
	in/s	3.66				3.64				3.84			
Screw stroke	mm	400				480				550			
	in	15.75				18.90				21.65			
Max. screw speed	r/min	154				145				128			
Barrel heating zone number	PCS	6				7				7			
CLAMPING UNIT													
Clamping force	KN	9000											
	US tons	1012											
Opening force	KN	640											
	US tons	72											
Platen size	mm	1850×1800											
	in	72.83×70.87											
Space between tie-bars	mm	1460×1210											
	in	57.48×47.64											
Max. mold thickness	mm	1200											
	in	47.24											
Min. mold thickness	mm	600											
	in	23.62											
Opening stroke	mm	2200/1600											
	in	86.61/62.99											
Max.daylight	mm	2800											
	in	110.24											
Ejector force	KN	274											
	US tons	31											
Ejector stroke	mm	360											
	in	14.17											
Ejector number	PCS	25											
POWER UNIT													
System pressure	Mpa	17.5/30				17.5/30				17.5/30			
	psi	2538/4351				2538/4351				2538/4351			
Motor	kW	66+5.5				89+7.5				110+7.5			
	hp	88.51+7.38				119.35+10.06				147.51+10.06			
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
	hp	145.63	145.63	158.91	158.91	192.43	192.43	205.31	205.31	227.03	227.03	239.23	239.23
Heating capacity	kW	37.14	37.14	47	47	47	47	56.6	56.6	51.76	51.76	60.9	60.9
	hp	49.8	49.8	63.03	63.03	63.03	63.03	75.9	75.9	69.41	69.41	81.67	81.67
GENERAL													
Oil tank capacity	L	1000				1150				1400			
	gal	264				303.6				369.6			
Machine dimensions	m	10.2×3.5×3.3				10.3×3.5×3.3				10.5×3.5×3.3			
	in	401.57×137.8×129.92				405.51×137.8×129.92				413.38×137.8×129.92			
Max.mold weight	T	21				21				21			

1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In terms of the mold opening stroke, data before the slash refer to mold opening stroke with the minimum mold height; data after the slash refer to opening stroke with the maximum mold height.
3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.
4. The shot weight is calculated with GPPS and it is 0.92 times of the theoretical shot volume.
5. Three types of screw diameters are available for each model and the medium one 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 highlighted figures are standard specifications of clamping unit and injection unit.
8. Because of constant technical improvement, specifications are subject to change without prior notice.

UN990WD1-N Machine Dimensions



UN990WD1-N Platen Dimensions



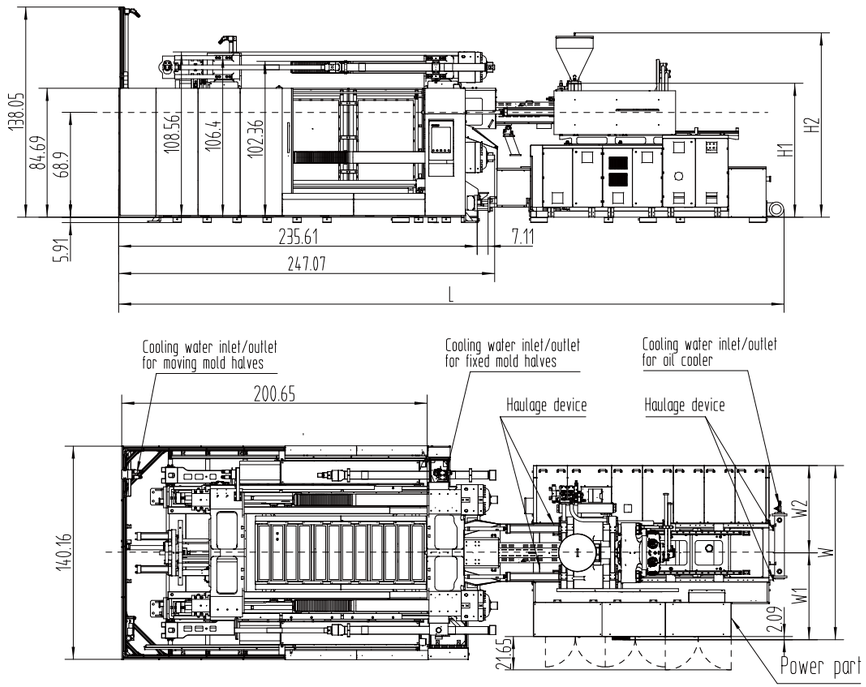
Model	A		B		L	H1	H2	W	W1	W2	Sectional area of main power cord		Full-load current	Bearing capacity of foundation		Number of cooling water line port		Cooling water flow (mold excluded)		Cooling water pressure		Compressed air pressure	
	mm	in	mm	in	in	in	in	in	in	in	mm^2	in^2	A	t/m^2	lbm/in^2	n×L/min	n×gal/min	L/min	gal/min	bar	psi	bar	psi
UN990WD1-N-IU4800	SR15	SR0.59	Ø4	Ø0.16	403.88	64.76	98.82	91.85	43.82	48.03	70	0.109	215.49										
UN990WD1-N-IU6800	SR15	SR0.59	Ø4	Ø0.16	403.88	71.34	105.39	106.73	53.23	53.50	75	0.116	259.84	8	17600	(8+8)×11	(8+8)×2.9	100	26.4	3～4	43.5-58	5～6	72.5-87
UN990WD1-N-IU9000	SR15	SR0.59	Ø4.5	Ø0.18	409.00	79.25	112.40	114.41	57.11	57.30	95	0.147	316.71										

UN1200WD1 Specifications

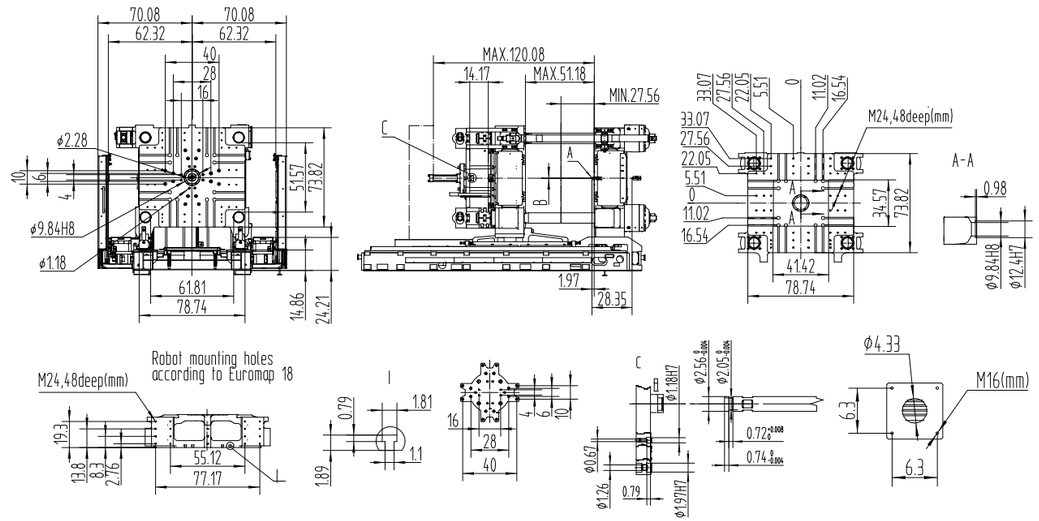
Model	UNIT	IU4800				IU6800				IU9000				IU10900			
INJECTION UNIT																	
Screw diameter	mm	84	92	100	108	92	100	108	116	100	108	116	125	108	116	125	135
	in	3.31	3.62	3.94	4.25	3.62	3.94	4.25	4.57	3.94	4.25	4.57	4.92	4.25	4.57	4.92	5.32
Theoretical shot volume	cm^3	2217	2659	3142	3664	3191	3770	4397	5073	4320	5038	5813	6748	5222	6024	6995	8159
	cu in	135.28	162.28	191.75	223.63	194.73	230.07	268.34	309.59	263.62	307.46	354.75	411.81	318.67	367.63	426.89	497.92
Shot weight	g	2039	2446	2890	3371	2936	3468	4045	4667	3974	4636	5348	6208	4804	5542	6435	7506
	oz	71.9	86.3	101.9	118.9	103.5	122.3	142.7	164.6	140.2	163.5	188.6	219	169.5	195.5	227	264.8
Injection pressure	Mpa	218	181	154	134	213	180	154	134	209	179	155	134	210	182	157	135
	psi	31560	26310	22336	19435	30864	26136	22336	19435	30298	25976	22481	19435	30458	26397	22771	19580
Screw L:D ratio		21.9	20	21.6	20	21.7	22	21.5	20	21.6	20	21.6	20	22	22	21.6	20
Injection rate	cm^3/s	520	624	737	860	615	726	847	980	766	894	1031	1197	815	940	1092	1273
	cu in/s	31.73	38.08	44.98	52.48	37.53	44.31	51.69	59.81	46.75	54.56	62.92	73.05	49.74	57.37	66.64	77.69
Max. injection speed	mm/s	93.9				92.5				97.6				89			
	in/s	3.70				3.64				3.84				3.50			
Screw stroke	mm	400				480				550				570			
	in	15.75				18.90				21.65				22.44			
Max. screw speed	r/min	154				145				128				112			
Barrel heating zone number	PCS	6				7				7				8			
CLAMPING UNIT																	
Clamping force	KN	11000															
	US tons	1237															
Opening force	KN	760															
	US tons	85															
Platen size	mm	2000×1875															
	in	78.74×73.82															
Space between tie-bars	mm	1570×1310															
	in	61.81×51.57															
Max. mold thickness	mm	1300															
	in	51.18															
Min. mold thickness	mm	700															
	in	27.56															
Opening stroke	mm	2350/1750															
	in	92.52/68.9															
Max.daylight	mm	3050															
	in	120.08															
Ejector force	KN	274															
	US tons	31															
Ejector stroke	mm	360															
	in	14.17															
Ejector number	PCS	25															
POWER UNIT																	
System pressure	Mpa	17.5/30				17.5/30				17.5/30				17.5/30			
	psi	2538/4351				2538/4351				2538/4351				2538/4351			
Motor	kW	66+5.5				89+7.5				110+7.5				89+37+7.5			
	hp	88.51+7.38				119.35+10.06				147.51+10.06				119.35+49.62+10.06			
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	199.9	199.9	204.1	204.1
	hp	145.63	145.63	158.91	158.91	192.43	192.43	205.31	205.31	227.03	227.03	239.23	239.23	268.07	268.07	273.7	273.7
Heating capacity	kW	37.14	37.14	47	47	47	47	56.6	56.6	51.76	51.76	60.9	60.9	66.37	66.37	70.63	70.63
	hp	49.8	49.8	63.03	63.03	63.03	63.03	75.9	75.9	69.41	69.41	81.67	81.67	89	89	94.71	94.71
GENERAL																	
Oil tank capacity	L	1000				1150				1400				1600			
	gal	264				303.6				369.6				422.4			
Machine dimensions	m	11×3.6×3.5				11×3.6×3.5				11.2×3.6×3.5				11.6×3.6×3.5			
	in	433.07×141.73×137.8				433.07×141.73×137.8				440.94×141.73×137.8				456.69×141.73×137.8			
Max.mold weight	T	30				30				30				30			

1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In terms of the mold opening stroke, data before the slash refer to mold opening stroke with the minimum mold height; data after the slash refer to opening stroke with the maximum mold height.
3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.
4. The shot weight is calculated with GPPS and it is 0.92 times of the theoretical shot volume.
5. Three types of screw diameters are available for each model and the medium one 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 highlighted figures are standard specifications of clamping unit and injection unit.
8. Because of constant technical improvement, specifications are subject to change without prior notice.

UN1200WD1-N Machine Dimensions



UN1200WD1-N Platen Dimensions



Model	A		B		L	H1	H2	W	W1	W2	Sectional area of main power cord		Full-load current	Bearing capacity of foundation		Number of cooling water line port		Cooling water flow (mold excluded)		Cooling water pressure		Compressed air pressure	
	mm	in	mm	in	in	in	in	in	in	in	mm^2	in^2	A	t/m^2	lbm/in^2	n×L/min	n×gal/min	L/min	gal/min	bar	psi	bar	psi
UN1200WD1-N-IU4800	SR15	SR0.59	Ø4.5	Ø0.18	432.03	76.18	110.24	91.85	43.82	48.03	70	0.109	215.49	8	17600	(8+8)×11	(8+8)×2.9	100	26.4	3～4	43.5-58	5～6	72.5-87
UN1200WD1-N-IU6800	SR15	SR0.59	Ø4.5	Ø0.18	432.03	76.18	110.24	106.73	53.23	53.50	75	0.116	259.84										
UN1200WD1-N-IU9000	SR15	SR0.59	Ø4.5	Ø0.18	437.15	84.09	117.24	114.41	57.11	57.30	95	0.147	316.71										
UN1200WD1-N-IU10900	SR20	SR0.79	Ø6	Ø0.24	455.65	88.74	121.89	114.41	57.11	57.30	120	0.186	370.88										

UN1400WD1-N Specifications

INJECTION UNIT																
Model	UNIT	IU6800				IU9000				IU10900				IU14500		
Screw diameter	mm	92	100	108	116	100	108	116	125	108	116	125	135	125	135	145
	in	3.62	3.94	4.25	4.57	3.94	4.25	4.57	4.92	4.25	4.57	4.92	5.32	4.92	5.32	5.71
Theoretical shot volume	cm^3	3191	3770	4397	5073	4320	5038	5813	6748	5222	6024	6995	8159	7977	9304	10733
	cu in	194.73	230.07	268.34	309.59	263.62	307.46	354.75	411.81	318.67	367.63	426.89	497.92	486.8	567.8	655.04
Shot weight	g	2936	3468	4045	4667	3974	4636	5348	6208	4804	5542	6435	7506	7339	8560	9875
	oz	103.5	122.3	142.7	164.6	140.2	163.5	188.6	219	169.5	195.5	227	264.8	258.9	301.9	348.3
Injection pressure	Mpa	213	180	154	134	209	179	155	134	210	182	157	135	181	156	135
	psi	30864	26136	22336	19435	30298	25976	22481	19435	30458	26397	22771	19580	26252	22626	19580
Screw L:D ratio		21.7	22	21.5	20	21.6	20	21.6	20	22	22	21.6	20	23.6	22	20
Injection rate	cm^3/s	615	726	847	980	766	894	1031	1197	815	940	1092	1273	1316	1536	1772
	cu in/s	37.53	44.31	51.69	59.81	46.75	54.56	62.92	73.05	49.74	57.37	66.64	77.69	80.31	93.74	108.14
Max. injection speed	mm/s	92.5				97.6				89				107		
	in/s	3.64				3.84				3.50				4.21		
Screw stroke	mm	480				550				570				650		
	in	18.90				21.65				22.44				25.59		
Max. screw speed	r/min	145				128				112				120		
Barrel heating zone number	PCS	7				7				8				8		

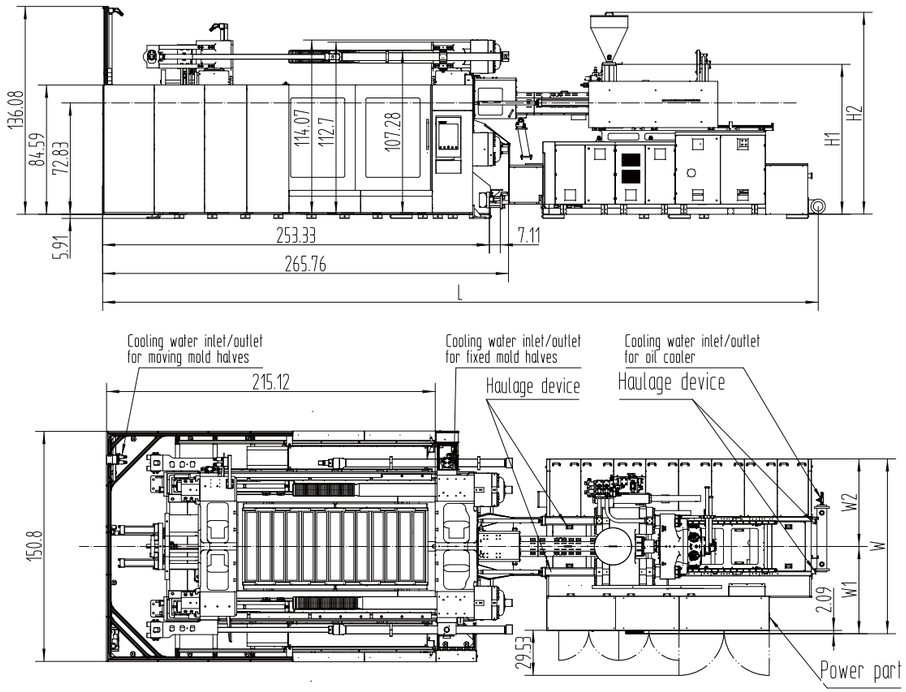
CLAMPING UNIT		
Clamping force	KN	13000
	US tons	1462
Opening force	KN	875
	US tons	98
Platen size	mm	2275×1940
	in	89.57×76.38
Space between tie-bars	mm	1670×1330
	in	65.75×52.36
Max. mold thickness	mm	1400
	in	55.12
Min. mold thickness	mm	700
	in	27.56
Opening stroke	mm	2600/1900
	in	102.36/74.8
Max.daylight	mm	3300
	in	129.92
Ejector force	KN	300
	US tons	34
Ejector stroke	mm	400
	in	15.75
Ejector number	PCS	25

POWER UNIT																
System pressure	Mpa	17.5/30				17.5/30				17.5/30				17.5/30		
	psi	2538/4351				2538/4351				2538/4351				2538/4351		
Motor	kW	89+7.5				110+7.5				89+37+7.5				89+66+11		
	hp	119.35+10.06				147.51+10.06				119.35+49.62+10.06				119.35+88.51+14.75		
Total power	kW	143.5	143.5	152.5	152.5	169.3	169.3	178.4	178.4	199.9	199.9	204.1	204.1	253.7		
	hp	192.43	192.43	204.5	204.5	227.03	227.03	239.23	239.23	268.07	268.07	273.7	273.7	340.21		
Heating capacity	kW	47	47	56	56	51.76	51.76	60.9	60.9	66.37	66.37	70.63	70.63	87.7		
	hp	63.03	63.03	75.1	75.1	69.41	69.41	81.67	81.67	89	89	94.71	94.71	117.61		

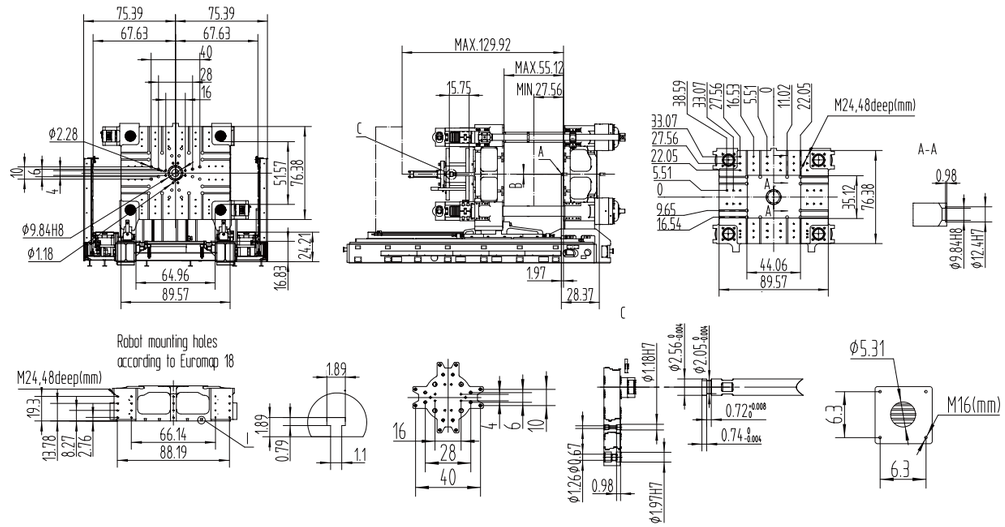
GENERAL					
Oil tank capacity	L	1150	1400	1600	2100
	gal	303.6	369.6	422.4	554.4
Machine dimensions	m	11.4×3.9×3.5	11.6×3.9×3.5	12×3.9×3.5	12.4×3.9×3.5
	in	448.82×153.54×137.8	456.69×153.54×137.8	472.44×153.54×137.8	488.19×153.54×137.8
Max.mold weight	T	32	32	32	32

1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In terms of the mold opening stroke, data before the slash refer to mold opening stroke with the minimum mold height; data after the slash refer to opening stroke with the maximum mold height.
3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.
4. The shot weight is calculated with GPPS and it is 0.92 times of the theoretical shot volume.
5. Three types of screw diameters are available for each model and the medium one 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 highlighted figures are standard specifications of clamping unit and injection unit.
8. Because of constant technical improvement, specifications are subject to change without prior notice.

UN1400WD1-N Machine Dimensions



UN1400WD1-N Platen Dimensions



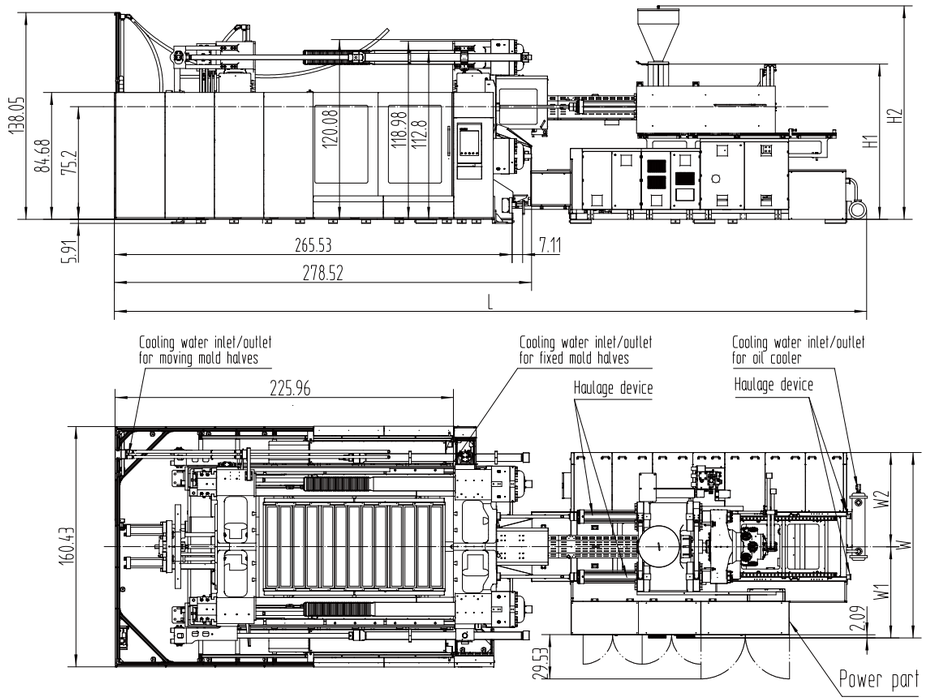
Model	A		B		L	H1	H2	W	W1	W2	Sectional area of main power cord		Full-load current	Bearing capacity of foundation		Number of cooling water line port		Cooling water flow (mold excluded)		Cooling water pressure		Compressed air pressure	
	mm	in	mm	in	in	in	in	in	in	in	mm^2	in^2	A	t/m^2	lbm/in^2	n×L/min	n×gal/min	L/min	gal/min	bar	psi	bar	psi
UN1400WD1-N-IU6800	SR15	SR0.59	Ø4.5	Ø0.18	477.89	80.12	114.17	106.73	53.23	53.50	75	0.116	259.84	10.5	23100	(8+8)×11	(8+8)×2.9	100	26.4	3～4	43.5-58	5～6	72.5-87
UN1400WD1-N-IU9000	SR15	SR0.59	Ø4.5	Ø0.18	454.86	88.03	121.18	114.41	57.11	57.30	95	0.147	316.71										
UN1400WD1-N-IU10900	SR20	SR0.79	Ø6	Ø0.24	473.37	92.68	125.83	114.41	57.11	57.30	120	0.186	370.88										
UN1400WD1-N-IU14500	SR20	SR0.79	Ø8	Ø0.31	486.04	101.30	140.16	123.86	60.94	62.91	150	0.233	470.42					250	66				

UN1750WD1-N Specifications

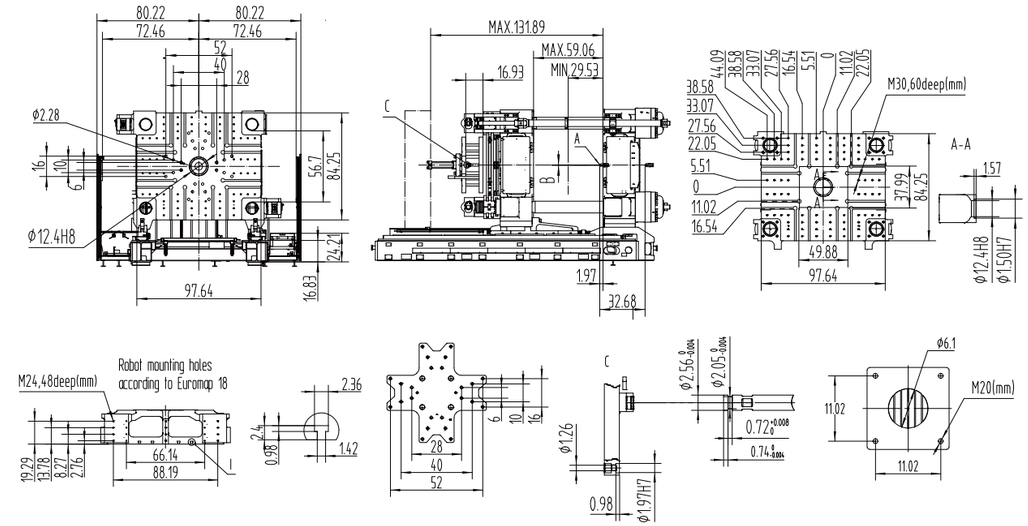
Model	UNIT	IU9000				IU10900				IU14500			IU18500			
INJECTION UNIT																
Screw diameter	mm	100	108	116	125	108	116	125	135	125	135	145	135	145	155	165
	in	3.94	4.25	4.57	4.92	4.25	4.57	4.92	5.32	4.92	5.32	5.71	5.32	5.71	6.10	6.50
Theoretical shot volume	cm^3	4320	5038	5813	6748	5222	6024	6995	8159	7977	9304	10733	10020	11559	13208	14968
	cu in	263.62	307.46	354.75	411.81	318.67	367.63	426.89	497.92	486.8	567.8	655.04	611.48	705.43	806.05	913.45
Shot weight	g	3974	4636	5348	6208	4804	5542	6435	7506	7339	8560	9875	9218	10634	12152	13770
	oz	140.2	163.5	188.6	219	169.5	195.5	227	264.8	258.9	301.9	348.3	325.1	375.1	428.6	485.7
Injection pressure	Mpa	209	179	155	134	210	182	157	135	181	156	135	184	160	140	123
	psi	30298	25976	22481	19435	30458	26397	22771	19580	26252	22626	19580	26730	23177	20305	17840
Screw L:D ratio		21.6	20	21.6	20	22	22	21.6	20	23.6	22	20	23.6	22	21	20
Injection rate	cm^3/s	766	894	1031	1197	815	940	1092	1273	1316	1536	1772	1301	1502	1717	1946
	cu in/s	46.75	54.56	62.92	73.05	49.74	57.37	66.64	77.69	80.31	93.74	108.14	79.40	91.66	104.78	118.76
Max. injection speed	mm/s	97.6				89				107			91			
	in/s	3.84				3.50				4.21			3.58			
Screw stroke	mm	550				570				650			700			
	in	21.65				22.44				25.59			27.56			
Max. screw speed	r/min	128				112				120			120			
Barrel heating zone number	PCS	7				8				8			8			
CLAMPING UNIT																
Clamping force	KN	16000														
	US tons	1800														
Opening force	KN	1100														
	US tons	124														
Platen size	mm	2480×2140														
	in	97.64×84.25														
Space between tie-bars	mm	1890×1440														
	in	74.41×56.69														
Max. mold thickness	mm	1500														
	in	59.06														
Min. mold thickness	mm	750														
	in	29.53														
Opening stroke	mm	2600/1850														
	in	102.36/72.83														
Max.daylight	mm	3350														
	in	131.89														
Ejector force	KN	460														
	US tons	52														
Ejector stroke	mm	430														
	in	16.93														
Ejector number	PCS	25														
POWER UNIT																
System pressure	Mpa	17.5/30				17.5/30				17.5/30			17.5/30			
	psi	2538/4351				2538/4351				2538/4351			2538/4351			
Motor	kW	110+7.5				89+37+7.5				89+66+11			89+66+11			
	hp	147.51+10.06				119.35+49.62+10.06				119.35+88.51+14.75			119.35+88.51+14.75			
Total power	kW	169.3	169.3	178.4	178.4	199.9	199.9	204.1	204.1	253.7			263.8			
	hp	227.03	227.03	239.23	239.23	268.07	268.07	273.7	273.7	340.21			353.76			
Heating capacity	kW	51.76	51.76	60.9	60.9	66.37	66.37	70.63	70.63	87.7			97.8			
	hp	69.41	69.41	81.67	81.67	89	89	94.71	94.71	117.61			131.15			
GENERAL																
Oil tank capacity	L	1400				1600				2100			2100			
	gal	369.6				422.4				554.4			554.4			
Machine dimensions	m	12.1×4.2×3.6				12.4×4.2×3.6				12.8×4.2×3.6			12.8×4.2×3.6			
	in	476.38×165.35×141.73				488.19×165.35×141.73				503.94×165.35×141.73			503.94×165.35×141.73			
Max.mold weight	T	45				45				45			45			

1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In terms of the mold opening stroke, data before the slash refer to mold opening stroke with the minimum mold height; data after the slash refer to opening stroke with the maximum mold height.
3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.
4. The shot weight is calculated with GPPS and it is 0.92 times of the theoretical shot volume.
5. Three types of screw diameters are available for each model and the medium one 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 highlighted figures are standard specifications of clamping unit and injection unit.
8. Because of constant technical improvement, specifications are subject to change without prior notice.

UN1750WD1-N Machine Dimensions



UN1750WD1-N Platen Dimensions



Model	A		B		L	H1	H2	W	W1	W2	Sectional area of main power cord	Full-load current	Bearing capacity of foundation		Number of cooling water line port		Cooling water flow (mold excluded)		Cooling water pressure		Compressed air pressure	
	mm	in	mm	in	in	in	in	in	in	in	mm^2	in^2	A	t/m^2	lbm/in^2	n×L/min	n×gal/min	L/min	gal/min	bar	psi	bar	psi
UN1750WD1-N-IU9000	SR15	SR0.59	Ø4.5	Ø0.18	488.72	90.39	123.54	114.41	57.11	57.30	95	0.147	316.71	10.5	23100	(8+8)×11	(8+8)×2.9	100	26.4	3～4	43.5-58	5～6	72.5-87
UN1750WD1-N-IU10900	SR20	SR0.79	Ø6	Ø0.24	489.51	95.04	128.19	114.41	57.11	57.30	120	0.186	370.88										
UN1750WD1-N-IU14500	SR20	SR0.79	Ø8	Ø0.31	502.19	103.66	142.52	123.86	60.94	62.91	150	0.233	470.42					250	66				
UN1750WD1-N-IU18500	SR20	SR0.79	Ø8	Ø0.31	502.19	105.67	148.07	123.86	60.94	62.91	150	0.233	491.15										

UN2000WD1-N Specifications

INJECTION UNIT																
Model	UNIT	IU9000				IU10900				IU14500			IU18500			
Screw diameter	mm	100	108	116	125	108	116	125	135	125	135	145	135	145	155	165
	in	3.94	4.25	4.57	4.92	4.25	4.57	4.92	5.32	4.92	5.32	5.71	5.32	5.71	6.10	6.50
Theoretical shot volume	cm^3	4320	5038	5813	6748	5222	6024	6995	8159	7977	9304	10733	10020	11559	13208	14968
	cu in	263.62	307.46	354.75	411.81	318.67	367.63	426.89	497.92	486.8	567.8	655.04	611.48	705.43	806.05	913.45
Shot weight	g	3974	4636	5348	6208	4804	5542	6435	7506	7339	8560	9875	9218	10634	12152	13770
	oz	140.2	163.5	188.6	219	169.5	195.5	227	264.8	258.9	301.9	348.3	325.1	375.1	428.6	485.7
Injection pressure	Mpa	209	179	155	134	210	182	157	135	181	156	135	184	160	140	123
	psi	30298	25976	22481	19435	30458	26397	22771	19580	26252	22626	19580	26730	23177	20305	17840
Screw L:D ratio		21.6	20	21.6	20	22	22	21.6	20	23.6	22	20	23.6	22	21	20
Injection rate	cm^3/s	766	894	1031	1197	815	940	1092	1273	1316	1536	1772	1301	1502	1717	1946
	cu in/s	46.75	54.56	62.92	73.05	49.74	57.37	66.64	77.69	80.31	93.74	108.14	79.40	91.66	104.78	118.76
Max. injection speed	mm/s	97.6				89				107			91			
	in/s	3.84				3.50				4.21			3.58			
Screw stroke	mm	550				570				650			700			
	in	21.65				22.44				25.59			27.56			
Max. screw speed	r/min	128				112				120			120			
Barrel heating zone number	PCS	7				8				8			8			

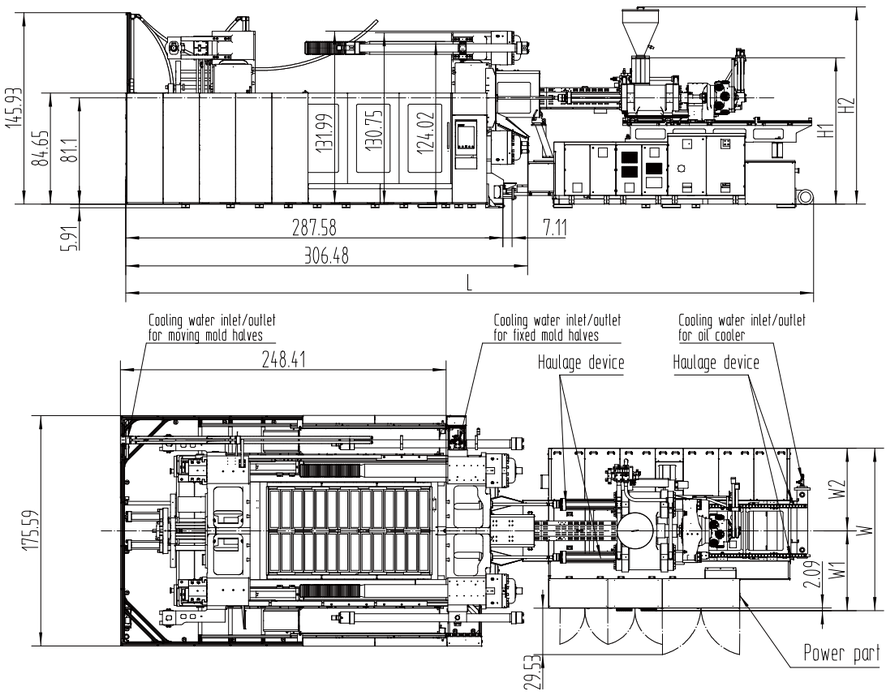
CLAMPING UNIT		
Clamping force	KN	18500
	US tons	2081
Opening force	KN	1230
	US tons	138
Platen size	mm	2682×2452
	in	105.59×96.54
Space between tie-bars	mm	2080×1680
	in	81.89×66.14
Max. mold thickness	mm	1600
	in	62.99
Min. mold thickness	mm	800
	in	31.5
Opening stroke	mm	3000/2200
	in	118.11/86.61
Max.daylight	mm	3800
	in	149.61
Ejector force	KN	460
	US tons	52
Ejector stroke	mm	430
	in	16.93
Ejector number	PCS	25

POWER UNIT																
System pressure	Mpa	17.5/30				17.5/30				17.5/30			17.5/30			
	psi	2538/4351				2538/4351				2538/4351			2538/4351			
Motor	kW	110+7.5				89+37+7.5				89+66+11			89+66+11			
	hp	147.51+10.06				119.35+49.62+10.06				119.35+88.51+14.75			119.35+88.51+14.75			
Total power	kW	169.3	169.3	178.4	178.4	199.9	199.9	204.1	204.1	253.7			263.8			
	hp	227.03	227.03	239.23	239.23	268.07	268.07	273.7	273.7	340.21			353.76			
Heating capacity	kW	51.76	51.76	60.9	60.9	66.37	66.37	70.63	70.63	87.7			97.8			
	hp	69.41	69.41	81.67	81.67	89	89	94.71	94.71	117.61			131.15			

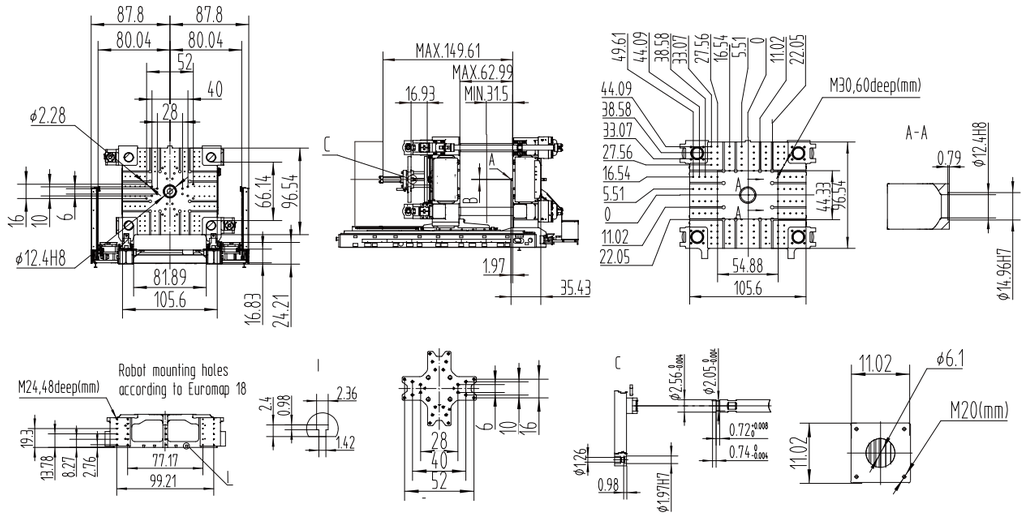
GENERAL					
Oil tank capacity	L	1400	1600	2100	2100
	gal	369.6	422.4	554.4	554.4
Machine dimensions	m	12.6×4.5×3.7	13×4.5×3.7	13.3×4.5×3.7	13.3×4.5×3.7
	in	496.06×177.17×145.67	511.81×177.17×145.67	523.62×177.17×145.67	523.62×177.17×145.67
Max.mold weight	T	62	62	62	62

1. Opening force refers to mold opening force generated during high-pressure mold open.
2. In terms of the mold opening stroke, data before the slash refer to mold opening stroke with the minimum mold height; data after the slash refer to opening stroke with the maximum mold height.
3. Mold-bearing capacity of the movable platen is 2/3 of total mold weight.
4. The shot weight is calculated with GPPS and it is 0.92 times of the theoretical shot volume.
5. Three types of screw diameters are available for each model and the medium one 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 highlighted figures are standard specifications of clamping unit and injection unit.
8. Because of constant technical improvement, specifications are subject to change without prior notice.

UN2000WD1-N Machine Dimensions



UN2000WD1-N Platen Dimensions



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UN2000WD1-N-IU18500	SR20	SR0.79	Ø8	Ø0.31	524.23	111.57	150.43	123.86	60.94	62.91	150	0.233	491.15										

Standard and Optional Features

● Standard
○ Optional

CLAMPING UNIT		
Clamping mechanism with tie bars independent of movable platen	●	
Quantitative volumetric automatic lubrication system	●	
High-response proportional control of pressure and flow for mold open & mold close	●	
Hydraulically-driven ejection device	●	
Low-pressure mold protection	●	
Clamping force adjustment as needed	●	
Forced reset function	●	
Ejector return protection	●	
Robot mounting hole (Euromap 18)	●	
Electric door (optional for UN550D1-N or UN770D1-N)	●	
T-slot platen	●	
Four clamp platens made of high-rigidity ductile iron	●	
Hydraulic and electrical safety devices	●	
Safety foot plate in mold area (optional for UN550D1-N or UN770D1-N)	●	
High-accuracy magnetostrictive displacement sensor for mold open/close control	●	
Mold with reset spring	●	
Safety foot plate in front & rear door areas		○
Synchronous ejection and core pulling		○
Secondary mold closing		○
Quick mold change system platform		○
Hydraulic mold clamp		○
Magnetic platen		○
Increased mold thickness		○
Increased ejector stroke		○
Mold lifting device		○
Heat insulating plate of mold		○
Special mold mounting hole		○
Increased mold opening stroke		○
Larger ejection force		○

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	●	
Mold-close monitoring protection	●	
Statistical process control (SPC) interface	●	
Electrical enclosure rated IP54	●	
Screw speed detecting device	●	
Time/ position/ time + position control modes for switchover to holding phase	●	
Protective plate in mold area	●	
3 sets of 380V 32A socket (2 sets for 550T-990T D1-N)	●	
1 set of 380V 16A socket (2 sets for 550T-990T D1-N)	●	
16-level password security	●	
Reserved robot interfaces based on SPI, EUROMAP 67	●	
Automatic heat preserving, automatic heating settings	●	
Servo injection		○
Electric unscrewing device		○
Hot runner interface		○
Auxiliary emergency stop button		○
Air blast in mold		○
Power supply change		○
Central (networked) monitoring system		○
Protective light grid of safety gates		○
Opto-electronic safety switch of front and rear safety gates		○
Protective light grid of central safety foot plate		○

INJECTION UNIT		
Double parallel cylinder injection unit with low-speed high-torque hydraulic motor	●	
Nitrided alloy steel screw & barrel	●	
Heat preservation cover for barrel and 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 guides 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(standard for IU14500 and above model)		○
Mixing screw		○
Bi-metallic screw barrel		○
Swivelling injection unit		○
Extended nozzle (50/100/150/200mm longer)		○

Special screw components		○
Energy-saving barrel heat retaining device (silicone cover)		○
Spring shut-off nozzle		○
Increased injection stroke		○

HYDRAULIC SYSTEM		
Low-noise energy-saving hydraulic circuit	●	
Proportional back pressure control for plasticizing	●	
Oil pre-heating system	●	
2 sets of core pull (4 sets for UN2300/2600D1-N, 6 sets for UN3100/3700/4400D1-N	●	
Differential mold-open circuit	●	
Injection and mold-close pressure protection	●	
High-pressure mold opening	●	
Automatic pressure and flow calibration	●	
Oil temperature and oil level alarm	●	
High-performance servo pump system	●	
Multiple sets of sequence (injection) valve interface		○
Variable displacement pump system		○
Closed-loop proportional variable displacement pump system		○
High-response accumulating servo injection system		○
Enlarged oil cooler		○
Multi-capacity larger pump motor		○
Multi-capacity larger plasticizing motor		○
Servo injection (closed-loop control of injection, plasticizing, holding pressure and back pressure)		○
Plasticizing during mold opening		○
Multiple sets of core pull or unscrewing devices with electrical interfaces		○

OTHER		
User manual	●	
Adjustable leveling pad	●	
8-in 8-out water manifold on platen (with general, quick connectors)	●	
Nozzle spanner	●	
Mold clamp	●	
Hopper (standard for IU6800 and below model)		○
Hydraulic oil (standard for UN1550D1-N/UN1400WD1-N and below model)		○
Loading platform		○
Mold temperature controller		○
Automatic loader		○
Dehumidification dryer		○

THINK
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