UN1600D1 Specifications

FEATURES

- European, oil-cooled, two-headed motor-driven servo drive delivers fast response and maximise energy efficiency
- Austrian KEBA control with dual CPU is stable, fast & accurate with 12" TFT colour touch screen display
- Based on European design technology
- High rigidity clamping unit delivers stability & accuracy, combined with uniform stress distribution on the tie bars
- Rexroth highly responsive dual proportional valves on clamping unit offers accurate repeatability
- L-shape guide rails deliver platen movement accuracy up to 0.05mm
- Mould open position accurate to ± 0.2mm
- Tie bars independent of moving platen offers precision & speed
- Dry cycle times up to 55% faster than toggle lock machines
- Small footprint compared to traditional three platen design
- Low pressure & highly sensitive mould protection
- Integrated linear guide rails on injection unit offer low resistance and accuracy
- Repeatability of part weight ≤3%
- Durable ceramic heater bands
- Time, position or pressure switchover for holding phase start
- Ultrasonic displacement sensor
- Central lubrication for injection unit
- European oil seals & guide rings

- Double core pull
- Double air blast circuit
- Euromap robot interface & Euromap mounting
- Hydraulic ejector
- T-Slot platen
- Auto mould height adjustment
- Oil pre-heating
- IP54 electrical enclosure
- Precise filtration and independent cooling system
- Service, warranty & parts supported by our in-house engineers

INJECTION UNIT		9000			12050			14500			18500		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	100	108	116	116	125	135	125	135	145	135	145	165
Shot volume	cm^3	4320	5038	5813	5341	7363	8588	7977	9304	10733	10020	11559	14968
Shot weight	g	3874	4636	5348	5833	6774	7901	7339	8560	9875	9218	10634	16770
Injection pressure	MPa	209	179	155	190	164	140	181	156	135	184	160	123
Screw L:D ratio		21.6	20	20	22.1	20	20	23.6	22	20	23.6	22	20
Injection rate	cm^3/s	766	894	1031	913	1060	1236	1316	1536	1772	1295	1494	1936
Max. injection speed	mm/s	97.6			86			107			91		
Screw stroke	mm	550			600			650			700		
Max. screw speed	r/min	128			112			120			120		
Barrel heating zone no.	PCS	7			8			8			8		
CLAMPING UNIT													
Clamping force	kN	16000											
Opening force	kN	1100											
Platen size	mm	2200 x 2100											
Distance between tie-bars	mm	1550 x 1450											
Mould thickness (min-max)	mm	700 - 1550											
Opening stroke	mm	2600 / 1750											
Max. daylight	mm	3300											
Ejector force	kN	300											
Ejector stroke	mm	400											
Ejector number	PCS	25											
ELECTRICAL & HYDRAULIC UNITS													
System pressure	MPa	17.5 / 30			17.5 / 30			17.5 / 30			17.5 / 30		
Pump motor	kW	110 + 11			89 + 37 + 11			89 + 66 + 11			89 + 66 + 11		
Total power	kW	164	164	168.8	203.4	203.4	207.6	253.7			261		
Heater power	kW	46.52	46.52	51.32	66.37	66.37	70.63	87.7			95		
GENERAL													
Oil tank capacity	L	1400			1600			2100			2100		
Machine dimensions (LxWxH)	m	11.4 x 3.7 3.5			12.1 x 3.7 x 3.5			12.4 x 3.7 x 3.5			12 .5 x 3.7 x 3.5		
Machine weight	T	44 +11			44+ 13			44 + 16.5			44 + 18.5		
Max. mould weight	T	34			34			34			34		

YIZUMI® Brought to you by STV MACHINERY

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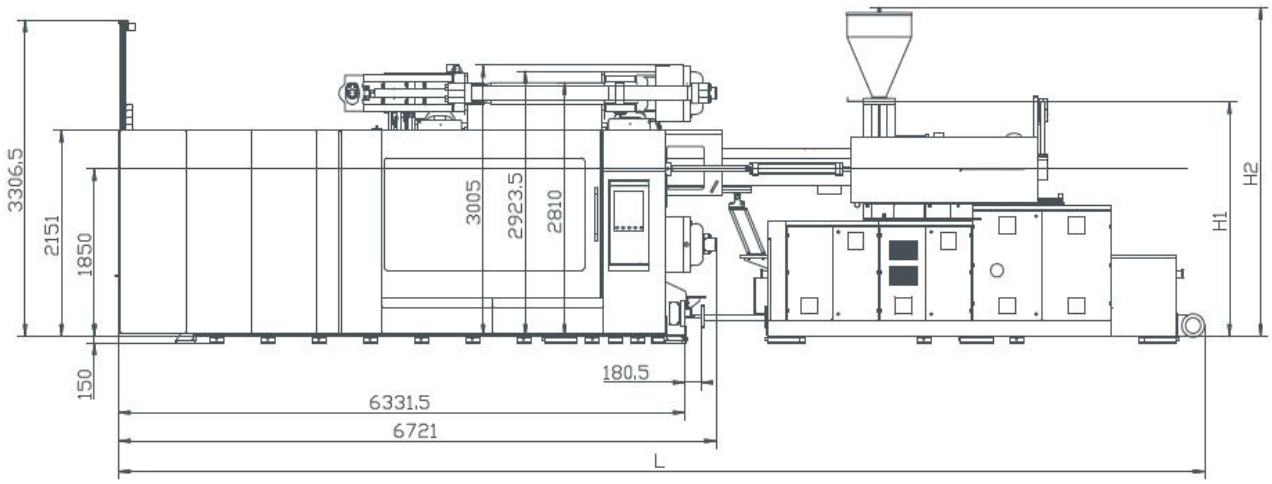
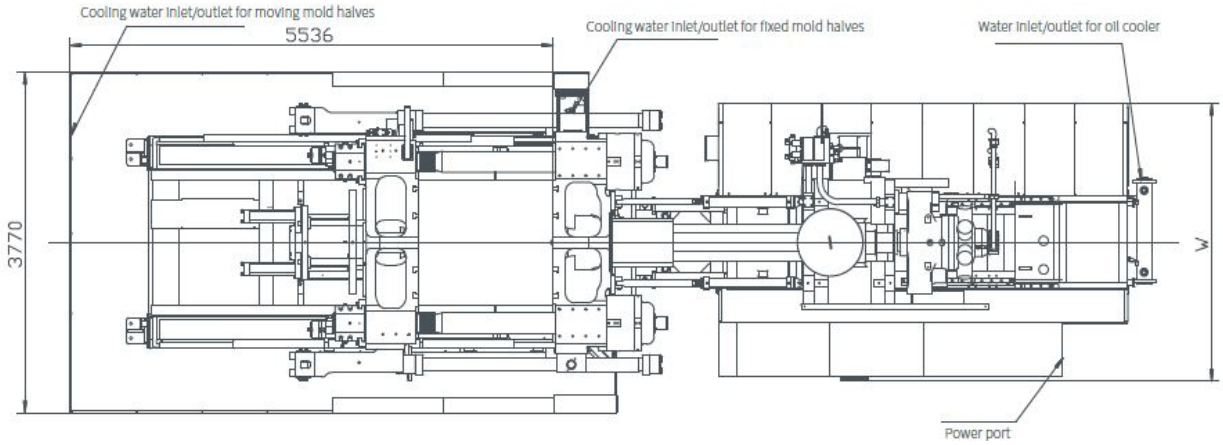
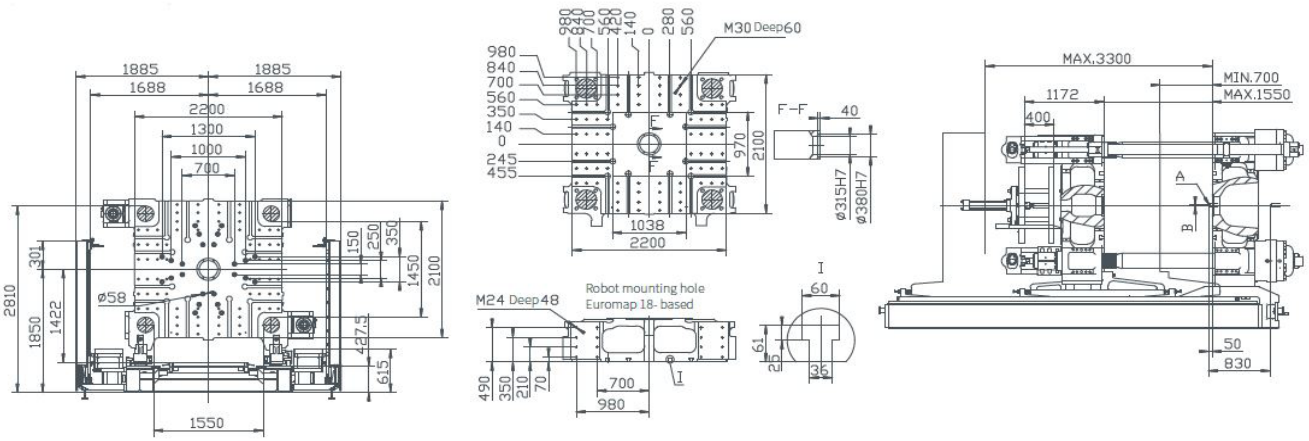
MACHINE DIMENSIONS





PLATEN DRAWINGS



Model	A	B	L	H1	H2	W	Main power cord size	Full-load current	Bearing capacity of foundation	Number of cooling water distributor	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
	mm	mm	mm	mm	mm	mm	mm²	A	t/m²	n×L/min	L/min	bar	bar
UN1600D1-IU9000	SR15	Φ4.5	11400	2334	3166	2906	95	316.71	10.5	(8+8)×11	200	3~4	5~6
UN1600D1-IU12050	SR15	Φ4.5	12100	2494	3166	2906	120	370.88	10.5	(8+8)×11	200	3~4	5~6
UN1600D1-IU14500	SR20	Φ8	12400	2654	3641	3145	150	470.42	10.5	(8+8)×11	200	3~4	5~6
UN1600D1-IU18500	SR20	Φ8	12500	2654	3641	3145	150	470.42	10.5	(8+8)×11	200	3~4	5~6

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