

# UN1200D1 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  $\pm 0.2\text{mm}$
- › Tie bars independent of moving platen offers precision & speed

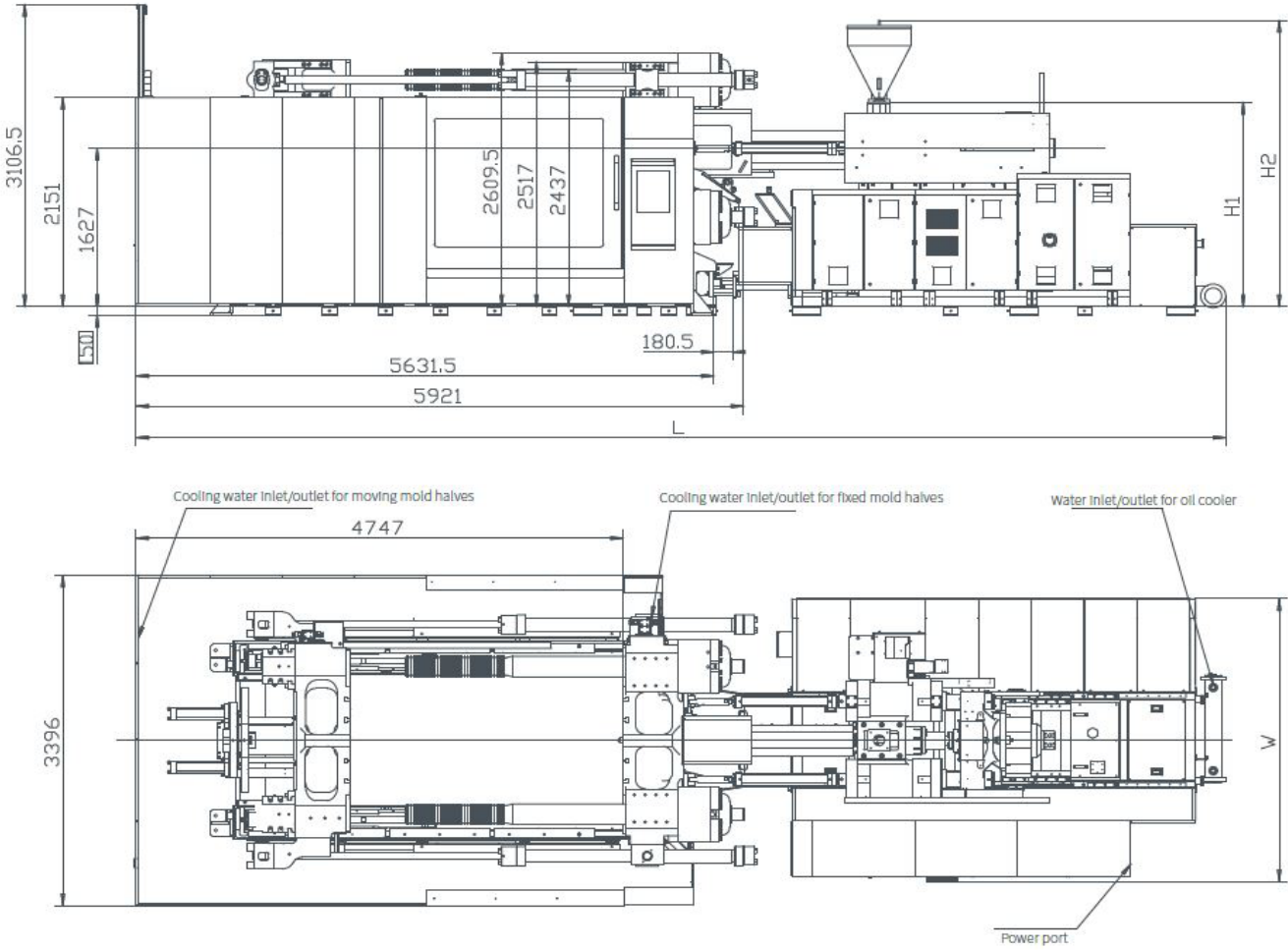
- › Dry cycle times up to 55% faster than toggle lock machines
- › Small footprint compared to traditional three platen design
- › Low pressure & highly sensitive mould protection
- › Integrated linear guide rails on injection unit offer low resistance and accuracy
- › Repeatability of part weight  $\leq 3\%$
- › 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



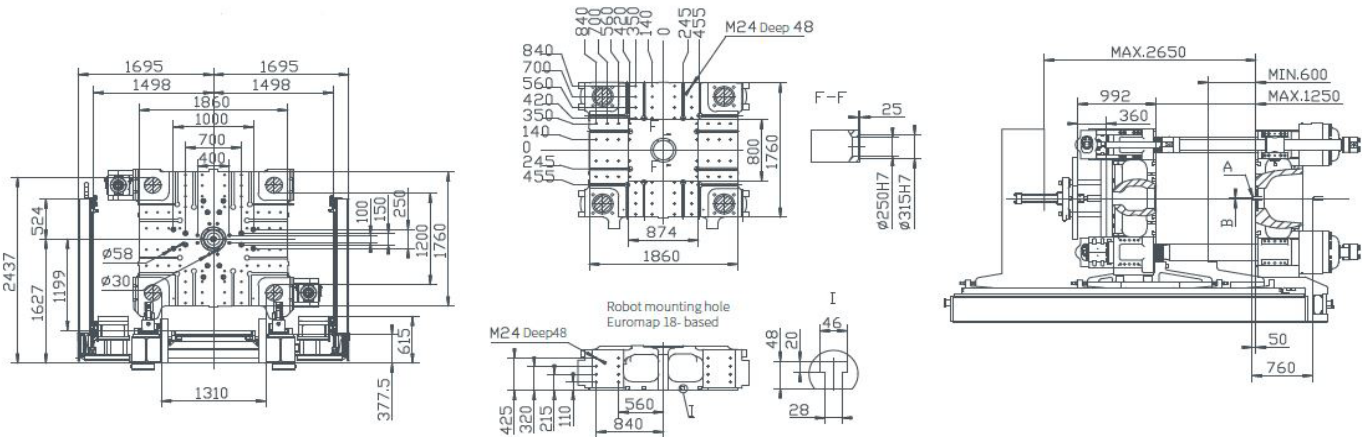
- › Double air blast circuit
- › Euromap robot interface & Euromap mounting
- › Hydraulic ejector
- › T-Slot platen
- › Auto mould height adjustment
- › Oil pre-heating
- › IP54 electrical enclosure
- › Precise filtration and independent cooling system
- › Service, warranty & parts supported by our in-house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

INJECTION UNIT		4800			6800			9000			12050		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	84	92	108	92	100	116	100	108	116	116	125	135
Shot volume	cm <sup>3</sup>	2217	2659	3664	3191	3770	5073	4320	5038	5813	6341	7363	8588
Shot weight	g	2039	2446	3371	2936	3468	4667	3974	4636	5348	5833	6774	7901
Injection pressure	MPa	218	181	131	213	180	134	209	179	155	190	164	140
Screw L:D ratio		21.9	20	20	21.7	20	20	21.6	20	20	22.1	20	20
Injection rate	cm <sup>3</sup> /s	516	619	853	615	726	980	766	894	1031	913	1060	1236
Max. injection speed	mm/s	89			92.5			97.6			86		
Screw stroke	mm	400			480			550			600		
Max. screw speed	r/min	154			145			128			112		
Barrel heating zone no.	PCS	6			7			7			8		
CLAMPING UNIT													
Clamping force	kN	12000											
Opening force	kN	875											
Platen size	mm	1860 x 1760											
Distance between tie-bars	mm	1310 x 1200											
Mould thickness (min-max)	mm	600 - 1250											
Opening stroke	mm	2050 / 1400											
Max. daylight	mm	2650											
Ejector force	kN	274											
Ejector stroke	mm	360											
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	66 + 7.5			89 + 7.5			110 + 7.5			89 + 37 + 7.5		
Total power	kW	111.3	111.3	120.5	138.5	138.5	147.5	164.02	164.02	168.8	199.9	199.9	204
Heater power	kW	37.82	37.82	47	42	42	51	46.52	46.52	51.32	66.37	66.37	70.63
GENERAL													
Oil tank capacity	L	1000			1150			1400			1600		
Machine dimensions	T	10.2 x 3.4 x 3.2			10.2 x 3.4 x 3.2			10.6 x 3.4 x 3.2			11.2 x 3.4 x 3.2		
Machine weight (LxWxH)	m	32 + 6.5			32 + 8.5			32 + 11			32 + 13		
Max. mould weight	T	20			20			20			20		

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	mm <sup>2</sup>	A	t/m <sup>2</sup>	n×L/min	L/min	bar	bar
UN1200D1-UJ4800	SR15	Φ4.5	10200	2016	2958	2906	70	215.49	8	(8+8)×11	150	3~4	5~6
UN1200D1-UJ6800	SR15	Φ4.5	10200	2016	2978	2906	95	259.84	8	(8+8)×11	150	3~4	5~6
UN1200D1-UJ9000	SR15	Φ4.5	10600	2111	2943	2906	95	316.71	8	(8+8)×11	150	3~4	5~6
UN1200D1-UJ12050	SR15	Φ4.5	11300	2271	2943	2906	120	370.88	8	(8+8)×11	150	3~4	5~6