

UN1850D1 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

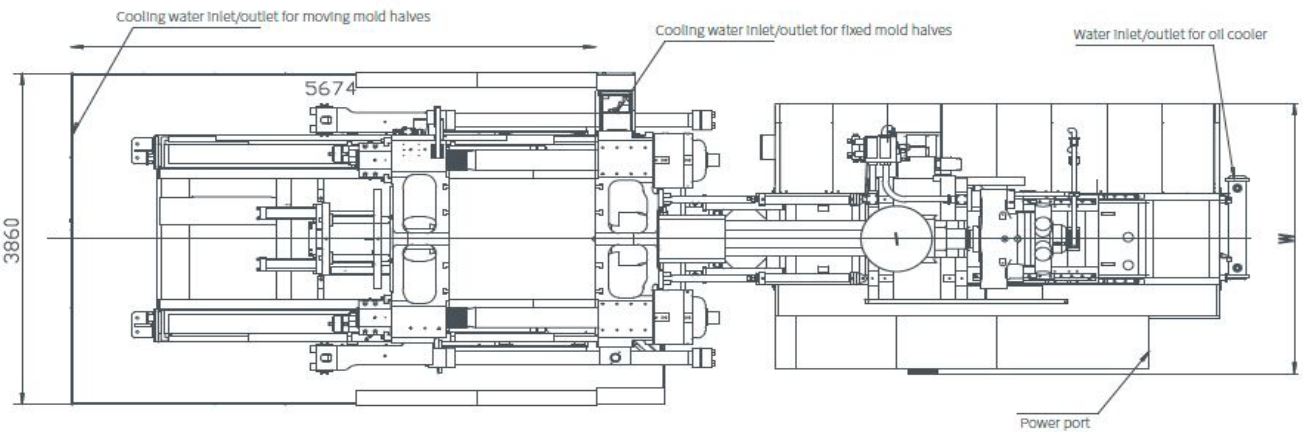
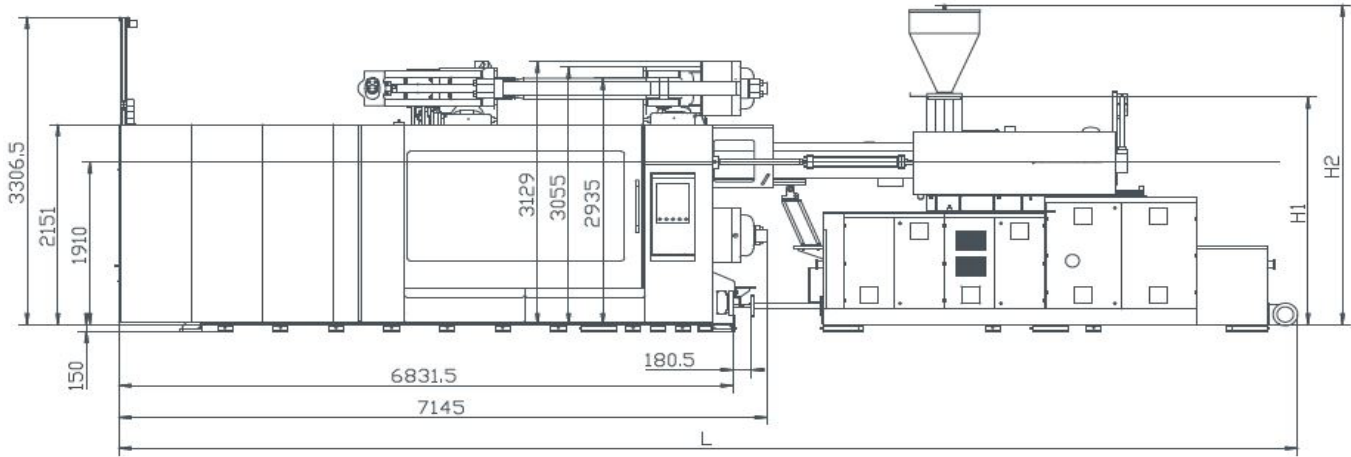
- › Dry cycle times up to 55% faster than toggle lock machines
- › Small footprint compared to traditional three platen design
- › Low pressure & highly sensitive mould protection
- › Integrated linear guide rails on injection unit offer low resistance and accuracy
- › Repeatability of part weight $\leq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



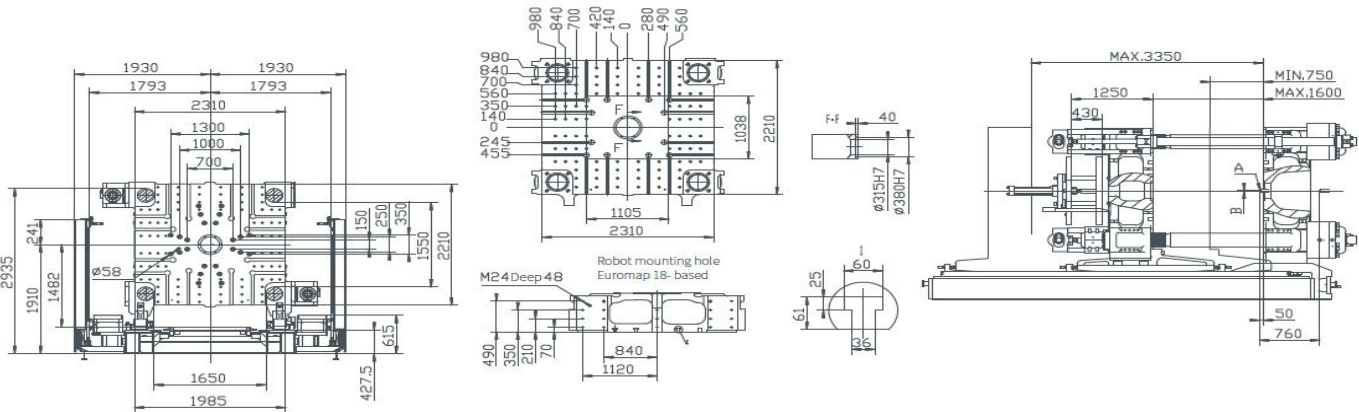
- › Double air blast circuit
- › Euromap robot interface & Euromap mounting
- › Hydraulic ejector
- › T-Slot platen
- › Auto mould height adjustment
- › Oil pre-heating
- › IP54 electrical enclosure
- › Precise filtration and independent cooling system
- › Service, warranty & parts supported by our in-house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

INJECTION UNIT		9000			10900			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	6341	7363	8588	7977	9304	10733	10020	11559	14968
Shot weight	g	3974	4636	5348	5833	6774	7901	7339	8560	9875	9218	10634	13770
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	18500											
Opening force	kN	1230											
Platen size	mm	2310 x 2210											
Distance between tie-bars	mm	1650 x 1550											
Mould thickness (min-max)	mm	750 - 1600											
Opening stroke	mm	2600 / 1750											
Max. daylight	mm	3350											
Ejector force	kN	460											
Ejector stroke	mm	430											
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	168.82	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	11.7 x 3.9 x 3.6			12.4 x 3.9 x 3.6			12.8 x 3.9 x 3.6			12.9 x 3.9 x 3.6		
Machine weight	T	50 + 11			50 + 13			50 + 16.5			50 + 18.5		
Max. mold weight	T	42			42			42			42		

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 ²	A	t/m ²	n×L/min	L/min	bar	bar
UN1850D1-IU9000	SR15	Φ4.5	11700	2394	3261	2906	95	316.71	10.5	(8+8)×11	200	3~4	5~6
UN1850D1-IU12050	SR15	Φ4.5	12400	2554	3226	2906	120	370.88	10.5	(8+8)×11	200	3~4	5~6
UN1850D1-IU14500	SR20	Φ8	12800	2714	3701	3145	150	470.42	10.5	(8+8)×11	200	3~4	5~6
UN1850D1-IU18500	SR20	Φ8	12900	2714	3701	3145	150	470.42	10.5	(8+8)×11	200	3~4	5~6