

UN1400D1 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



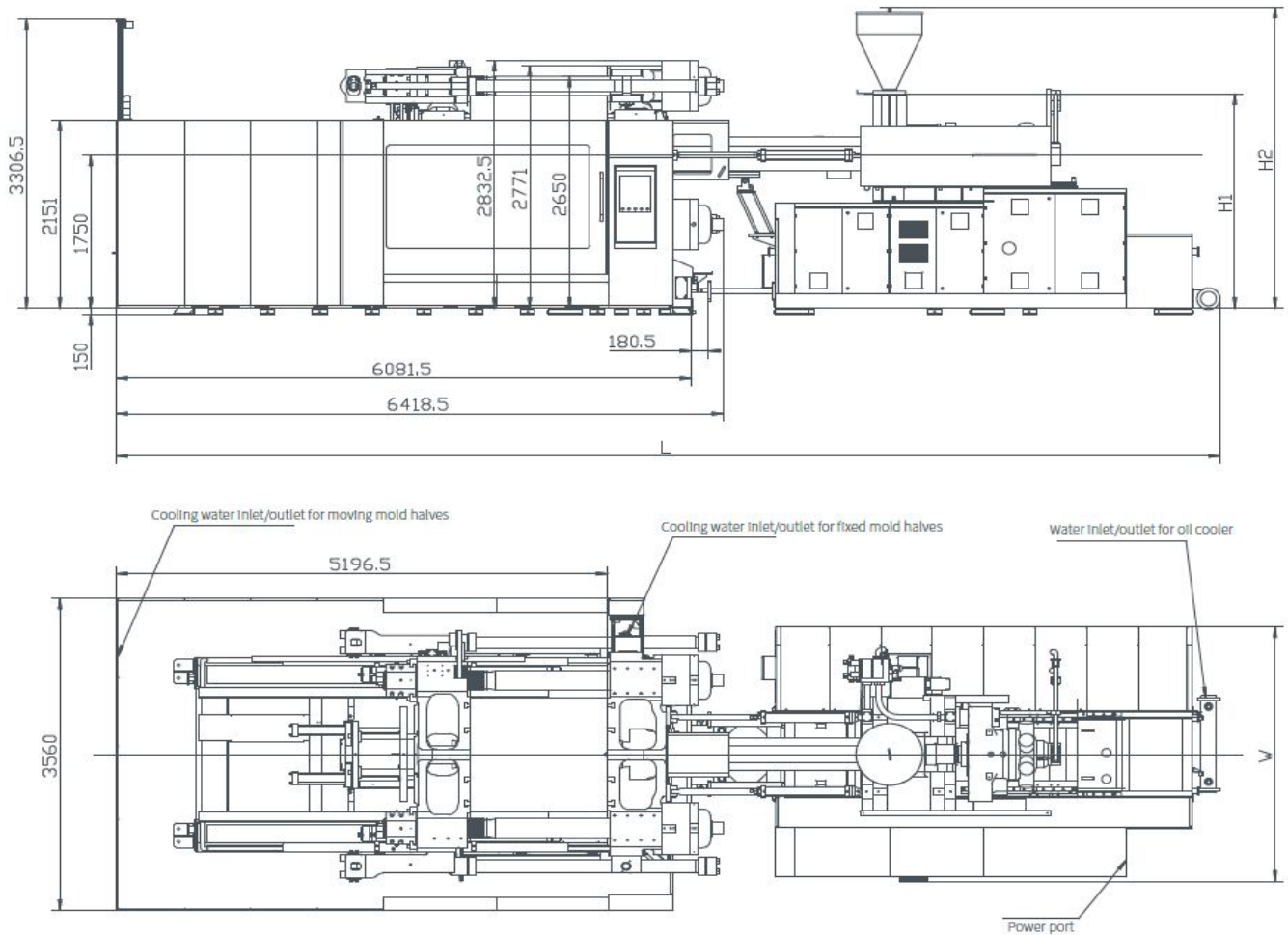
INJECTION UNIT		6800			9000			12050			14500		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	92	100	116	100	108	116	116	125	135	125	135	145
Shot volume	cm ³	3191	3770	5073	4320	5038	5813	6341	7363	8588	7977	9304	10733
Shot weight	g	2936	3468	4667	3974	4636	5348	5833	6774	7901	7339	8560	9875
Injection pressure	MPa	213	180	134	209	179	155	190	164	140	181	156	135
Screw L:D ratio		21.7	20	20	21.6	20	20	22.1	20	20	23.6	22	20
Injection rate	cm ³ /s	615	726	980	766	894	1031	913	1060	1236	1316	1536	1772
Max. injection speed	mm/s		92.5			97.6			86			107	
Screw stroke	mm		480			550			600			650	
Max. screw speed	r/min		145			128			112			120	
Barrel heating zone no.	PCS		7			7			8			8	

CLAMPING UNIT													
Clamping force	kN	14000											
Opening force	kN	950											
Platen size	mm	2072 x 1972											
Distance between tie-bars	mm	1470 x 1360											
Mould thickness (min-max)	mm	700 - 1450											
Opening stroke	mm	2350 / 1600											
Max. daylight	mm	3050											
Ejector force	kN	300											
Ejector stroke	mm	400											
Ejector number	PCS	25											

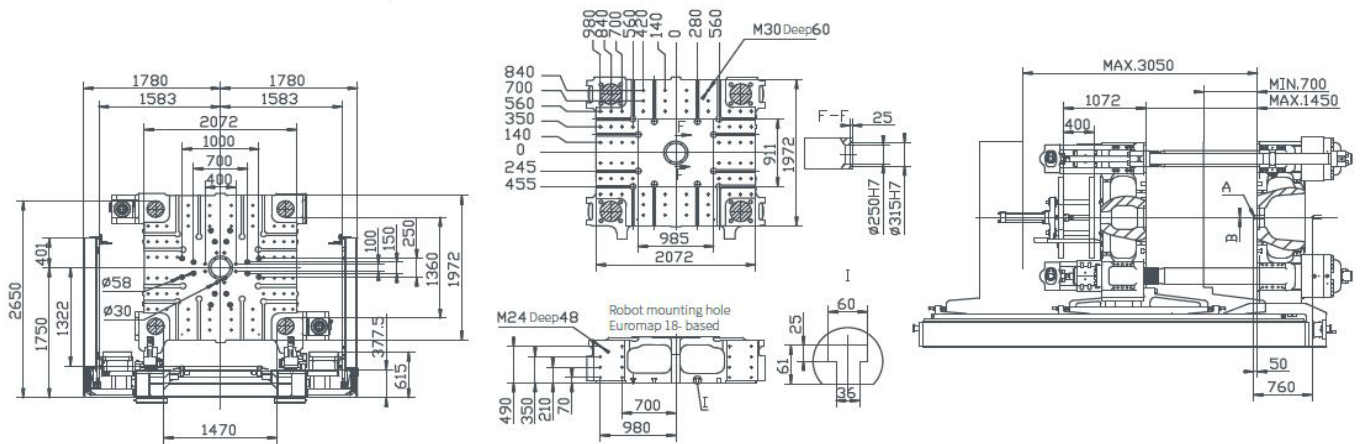
ELECTRICAL & HYDRAULIC UNITS													
System pressure	MPa	17.5 / 30			17.5 / 30			17.5 / 30			17.5 / 30		
Pump motor	kW	85 + 7.5			110 + 7.5			85 + 37 + 7.5			85 + 66 + 7.5		
Total power	kW	138.5	138.5	147.5	164	164	168.8	199.9	199.9	204	250.2		
Heater power	kW	42	42	51.82	46.52	46.52	51.32	66.37	66.37	70.63	87.7		

GENERAL													
Oil tank capacity	L	1150			1400			1600			2100		
Machine dimensions (LxWxH)	m	10.6 x 3.6 x 3.4			11.1 x 3.6 x 3.4			11.7 x 3.6 x 3.4			12.1 x 3.6 x 3.4		
Machine weight	T	39 + 8.5			39 + 11			39 + 13			39 + 16.5		
Max. mould weight	T	27			27			27			27		

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
UN1400D1-IU6800	SR15	Φ4.5	10600	2259	3101	2906	95	259.84	8	(8+8)×11	150	3~4	5~6
UN1400D1-IU9000	SR15	Φ4.5	11100	2234	3066	2906	95	316.71	8	(8+8)×11	150	3~4	5~6
UN1400D1-IU12050	SR15	Φ4.5	11671	2394	3066	2906	120	370.88	8	(8+8)×11	150	3~4	5~6
UN1400D1-IU14500	SR20	Φ8	12100	2554	3541	3145	150	470.42	8	(8+8)×11	150	3~4	5~6