

# UN2100D1 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  $\pm 0.2$ mm
- Tie bars independent of moving platen offers precision & speed
- Dry cycle times 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



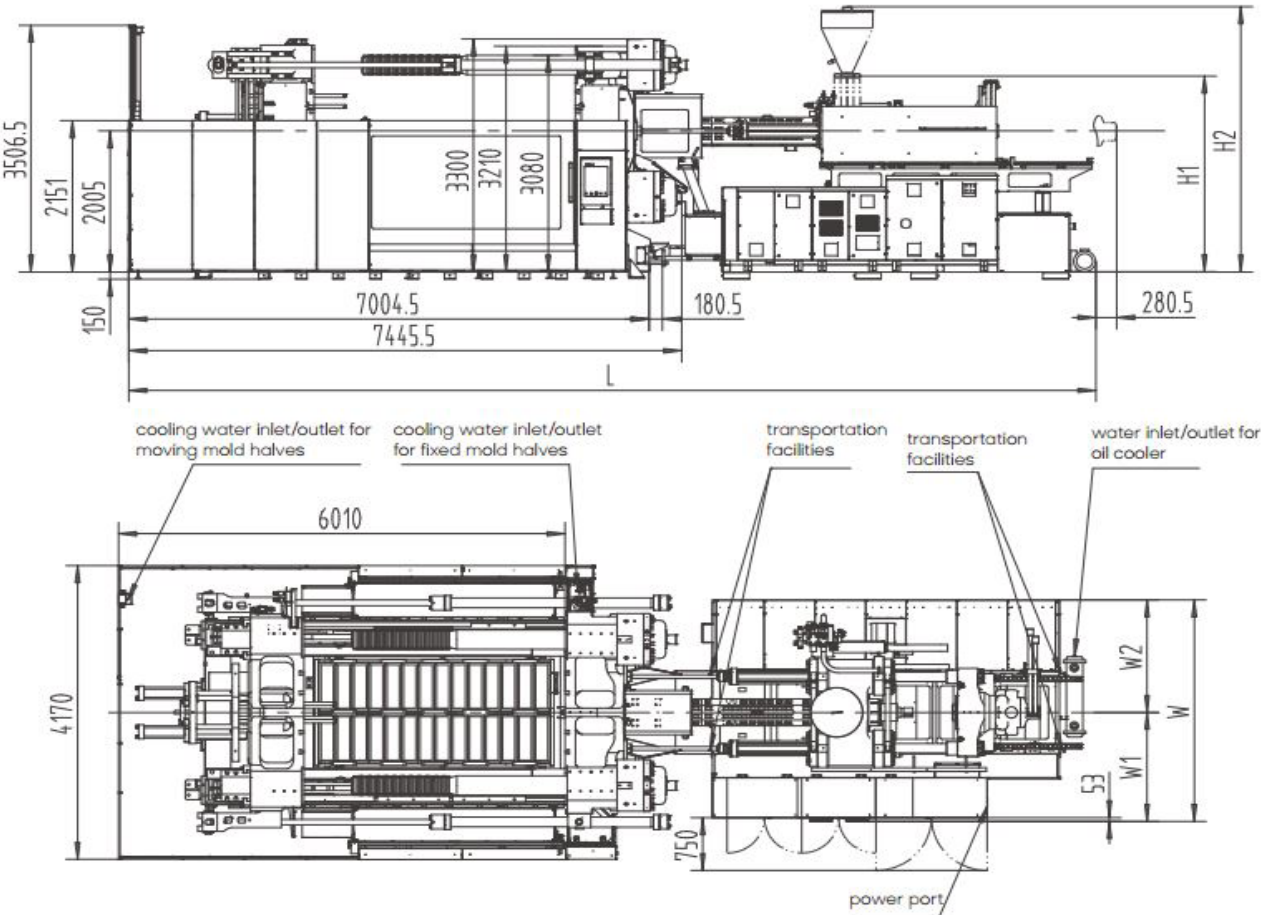
INJECTION UNIT		10900				14500			18500				23750			37500
		A	B	C	D	A	B	C	A	B	C	D	A	B	C	A
Screw diameter	mm	108	116	125	135	125	135	145	135	145	155	165	145	155	165	185
Theoretical shot volume	cm <sup>3</sup>	5222	6024	6995	8159	7977	9304	10733	10020	11559	13208	14968	12385	14152	16037	26343
Shot weight	g	4804	5542	6435	7506	7339	8560	9875	9218	10634	12152	13770	11394	13020	14754	24235
Injection pressure	bar	2100	1820	1570	1350	1810	1560	1350	1840	1600	1400	1230	1900	1670	1470	1510
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 <sup>3</sup> /s	815	940	1092	1273	1316	1536	1772	1301	1502	1717	1946	1532	1750	1983	1934
Max. injection speed	mm/s	89				107			91				92.7			71.9
Screw stroke	mm	570				650			700				750			980
Max. screw speed	r/min	112				120			120				120			80
Barrel heating zone no.	PCS	8				8			8				10			10

CLAMPING UNIT																
Clamping force	kN	21000														
Opening force	kN	1380														
Platen size	mm	2620 x 2320														
Distance between tie-bars	mm	1800 x 1600														
Mould thickness (min-max)	mm	800 - 1700														
Opening stroke	mm	2700 / 1800														
Max. daylight	mm	3500														
Ejector force	kN	460														
Ejector stroke	mm	430														
Ejector number	PCS	25														

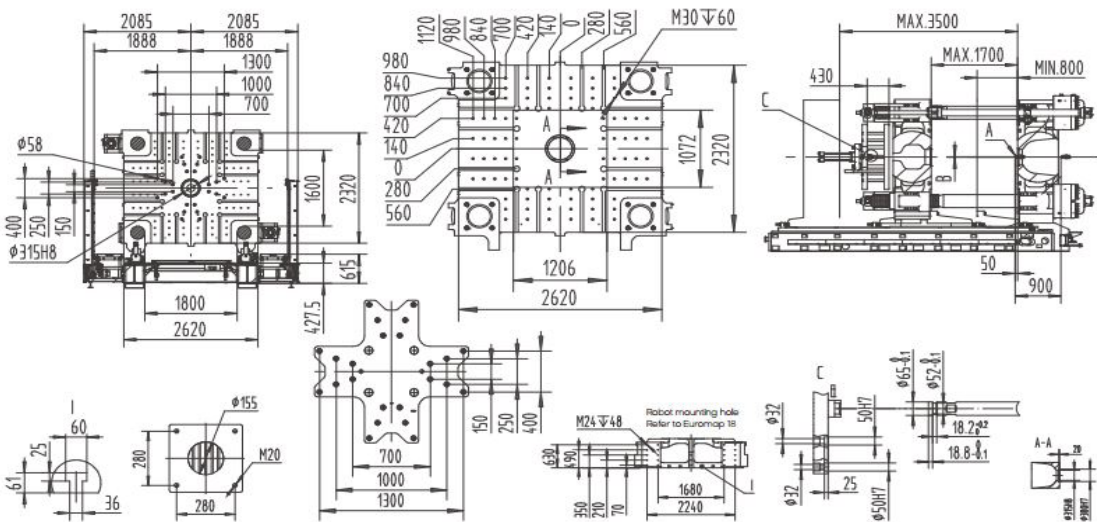
ELECTRICAL & HYDRAULIC UNITS																
System pressure	MPa	17.5 / 30				17.5 / 30			17.5 / 30				17.5 / 30			17.5 / 30
Pump motor	kW	89 + 37 + 7.5				89 + 66 + 11			89 + 66 + 11				110 + 89 + 11			110 + 89 + 11
Total power	kW	199.9	199.9	204.1	204.1	253.7			263.8				322.4			357.5
Total power	kW	66.37	66.37	70.63	70.63	87.7			97.8				112.4			147.5

GENERAL																
Oil tank capacity	L	1600				2100			2100				2850			2850
Machine dimensions (LxWxH)	m	12.7 x 4.2 x 3.5				13.0 x 4.2 x 3.8			13.0 x 4.2 x 3.8				15.5 x 4.2 x 3.9			15.5 x 4.2 x 3.9
Machine weight	T	65 + 13				65 + 16.5			65 + 18.5				65 + 21			65 + 23
Max. mould weight	T	50				50			50				50			50

MACHINE DIMENSIONS



PLATEN DRAWINGS



Model	A	B	L	H1	H2	W	W1	W2	Main power cord size	Full-load current	Bearing capacity of foundation	Mold cooling water ports	Cooling water flow (mold excluded)	Cooling water pressure	Compressed air pressure
	mm	mm	mm	mm	mm	mm	mm	mm	mm <sup>2</sup>	A	t/m <sup>2</sup>	n×L/min	L/min	bar	bar
UN2100D1-IU10900	SR20	Φ6	12695	2609	3451	2906	1450.5	1455.5	120	370.88	12.5	(8+8)×11	100	3~4	5~6
UN2100D1-IU14500	SR20	Φ8	13021	2728	3715	3146	1548	1598	150	470.42	12.5	(8+8)×11	250	3~4	5~6
UN2100D1-IU18500	SR20	Φ8	13021	2744	3731	3146	1548	1598	150	491.15	12.5	(8+8)×11	250	3~4	5~6
UN2100D1-IU23750	SR25	Φ8	15475	2754	3760	3660.5	1847.5	1813	185	652.49	12.5	(8+8)×11	350	3~4	5~6
UN2100D1-IU37500	SR25	Φ8	15475	2830	3817	3660.5	1847.5	1813	185	806.34	12.5	(8+8)×11	350	3~4	5~6