

# UN1300DP / UN1500DP Specifications

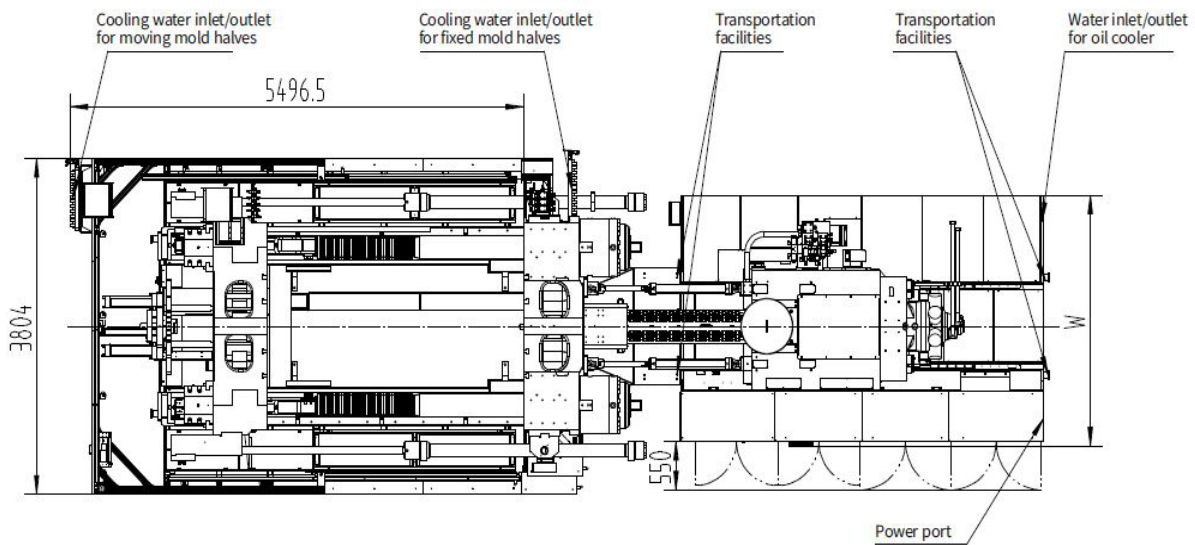
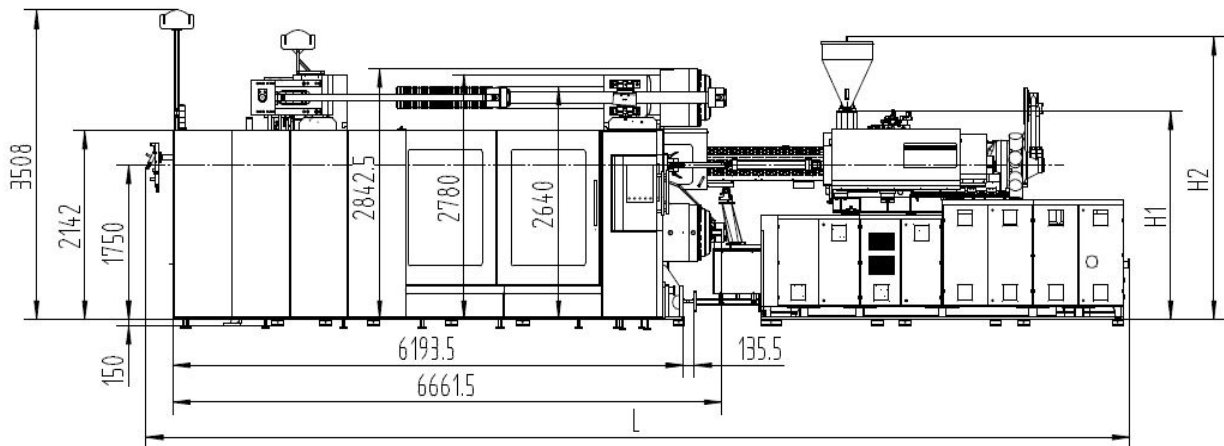
## FEATURES

- Japanese Yuken dual displacement piston pump with servo drive saves between 20% and 60% energy compared to a variable displacement pump
- User friendly and renowned Austrian manufactured KEBA controller
- European based design
- Ceramic heater bands
- T-slot platens
- Warranty supported by UK based engineers
- Open ejector cylinder design which is maintenance friendly
- Diagonally located high-speed cylinders for faster mould opening and closing
- High-rigidity platen
- Non-contact magnetostrictive sensors used for measuring position
- Low-speed high-torque hydraulic motor for screw drive
- Sliding shoes designed specifically to support large moulds with two thirds of the mould weight taken by the moving platen
- Short stroke high-pressure cylinders offer fast pressure build-up and mould protection
- Non-contact design between tie bars and movable platen for lower maintenance
- Large areas of safety foot plates aides access
- Swivelling injection unit shortens the time spent on plasticising unit maintenance
- Pump and motor unit can be specified to suit the application if required and can lead to further gains in efficiency
- Tie bar pulling, magnetic platens and quick mould change systems available as options
- Optional accumulator assisted injection
- Specific screws for processing different materials can be specified to suit the application

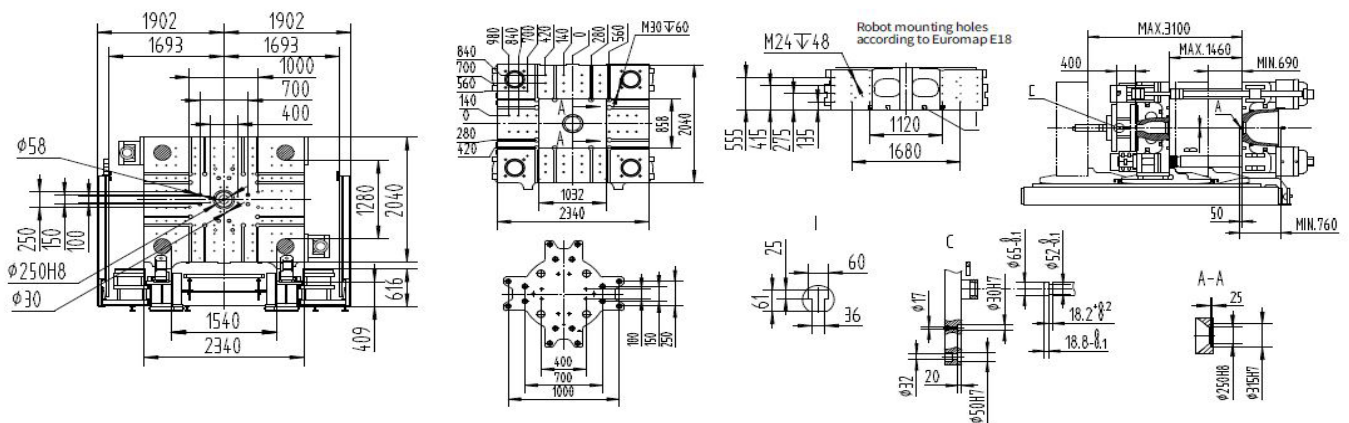


INJECTION UNIT		9000			12050			18500			23750		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	100	108	116	116	125	135	135	145	155	145	155	165
Theoretical shot volume	cm <sup>3</sup>	4320	5039	5812	6341	7363	8588	10020	11559	13208	12385	14152	16037
Shot weight	g	3974	4636	5347	5833	6774	7901	9218	10634	12152	11394	13020	14756
Injection pressure	MPa	209	179	155	190	164	140	184	160	140	192	168	148
Screw L:D ratio	L/D	21.6	20	20	22.1	20	20	23.6	22	20	23.5	22	20.1
Injection rate	cm <sup>3</sup> /s	766	894	1031	913	1060	1237	1251	1444	1650	1505	1715	1950
Max. injection speed	mm/s		97.6			86.4			87.4			91.1	
Screw stroke	mm		550			600			700			750	
Max. screw speed	r/min		128			113			118			114	
Screw torque	Nm		11982			14769			18949			24522	
Heating capacity	kW	46.52	46.52	51.32	66.39	66.39	70.65		98.9			112.39	
Barrel heating zone number	PCS		7			8			8			10	
Nozzle contact force	kN		178.6			178.6			296.7			296.7	
CLAMPING UNIT													
Clamping force	kN	13000 / 15000											
Opening force	kN	1230											
Platen size	mm	2340 x 2040											
Distance between tie-bars	mm	1540 x 1280											
Mould thickness	mm	690 - 1460											
Max. opening stroke	mm	2410											
Max. daylight	mm	3100											
Ejector force	kN	300											
Ejector stroke	mm	400											
Ejector number	PCS	25											
ELECTRICAL & HYDRAULIC UNITS													
System pressure	MPa	17.5 / 25			17.5 / 25			17.5 / 25			17.5 / 25		
Pump motor	kW	55.6 + 31 + 39.4			55.6 x 2 + 39.4			60 x 3			60 x 3 + 55.6		
Total power	kW	172.5	172.5	177.3	217	217	221.2	278.9			348		
GENERAL													
Oil tank capacity	L	1500			1500			2400			2600		
Dry cycle	s/mm	7.2 / 1078			6.8 / 1078			6.7 / 1078			6.4 / 1078		
Max. mould weight	T	30			30			30			30		
Machine weight	T	57 + 12			57 + 14			57 + 22			57 + 23		
Machine dimensions (LxWxH)	m	11.9 x 3.8 x 3.5			11.9 x 3.8 x 3.5			12.9 x 3.8 x 3.5			13.5 x 3.8 x 3.6		

## MACHINE DIMENSIONS



## PLATEN DRAWINGS



Model	A	B	L	H1	H2	W	Sectional area of main power cord	Full-load current	Bearing capacity of foundation	Number of cooling water line port	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
UN1300DP/1500DP-IU9000	SR15	ø4.5	11940	2209	3051	2842	95	305.1	10.5	(10+10)×11	160	3-4	5-6
UN1300DP/1500DP-IU12050	SR20	ø6	11940	2364	3206	2842	120	347.3					
UN1300DP/1500DP-IU18500	SR20	ø8	12940	2514	3501	3595	150	517.6					
UN1300DP/1500DP-IU23750	SR25	ø8	13540	2534	3540	3434	150	627.3					