

# UN1300DP/UN1500DP Specifications

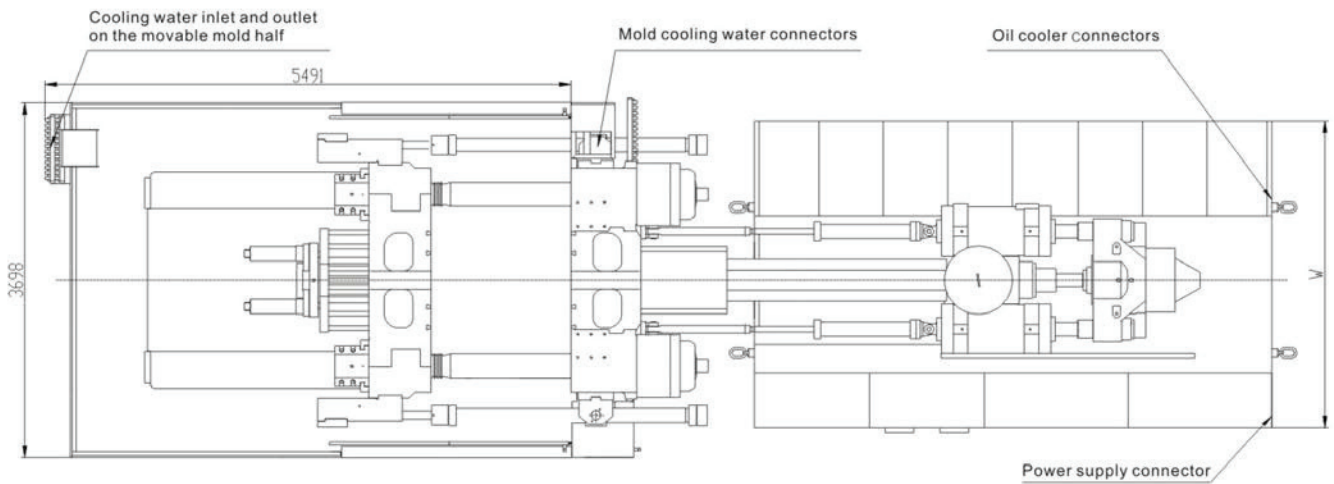
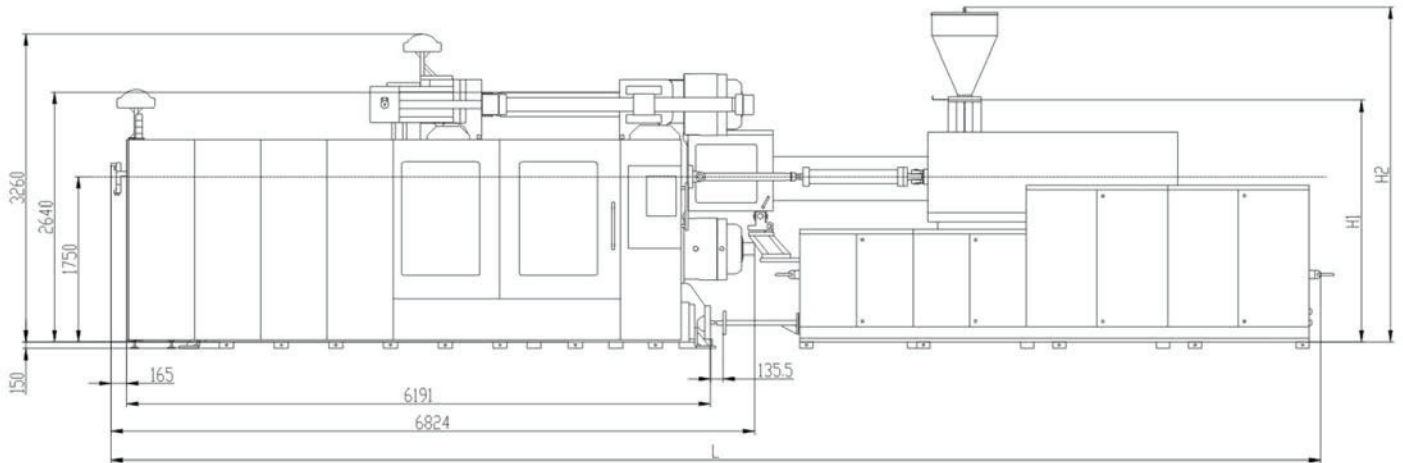
## FEATURES

- 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	20.0	20.0	22.1	20.0	20.0	23.6	22.0	20.0	23.5	22.0	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	
Plasticising rate (PS)	g/s	150	165	215	197	261	327	208	295	343	198	257	303
Heating capacity	kW	46.52	46.52	51.32	66.37	66.37	70.63		98.52			112.39	
Barrel heating zone number	PCS		7			8			8			10	
Nozzle contact force	kN		263.8			263.8			296.7			296.7	
Carriage stroke	mm		760			760			830			830	
CLAMPING UNIT													
Clamping force	kN	13000/15000											
Opening force	kN	1230											
Platen size	mm	2340x2040											
Distance between tie-bars	mm	1540x1280											
Mould thickness	mm	690-1460											
Max. opening stroke	mm	2410											
Max. daylight	mm	3100											
Ejector force	kN	300											
Ejector stroke	mm	380											
Ejector number	PCS	25											
ELECTRICAL & HYDRAULIC UNITS													
System pressure	Mpa	17.5, 25			17.5, 25			17.5, 25			17.5, 25		
Motor	kW	55.6 + 39.4 + 31			55.6x2 + 39.4			60x3			60x3 + 55.6		
Pump flow	L/min	550			600			800			1000		
Total power	kW	172.5	172.5	177.3	217	217	221.2	278.52			348		
GENERAL													
Oil tank capacity	L	1600			2000			2500			3200		
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 (clamping + injection units, without oil)	T	57 + 12			57 + 14			57 + 22			57 + 23		
Machine dimensions (LxWxH)	m	12.0x3.7x3.1			12.0x3.7x3.3			13.0x3.8x3.5			13.4x3.7x3.6		

## MACHINE DIMENSIONS



## PLATEN DRAWINGS

