

# UN800DP/UN900DP 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		4800			6150			9000			12050		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	84	92	100	92	100	108	100	108	116	116	125	135
Theoretical shot volume	cm <sup>3</sup>	2217	2659	3142	2892	3416	3985	4320	5038	5813	6341	7363	8588
Shot weight	g	2039	2446	2890	2660	3143	3666	3974	4636	5347	5833	6774	7901
Injection pressure	Mpa	218	181	154	213	180	155	209	179	155	190	164	140
Screw L:D ratio	L/D	21.9	20.0	20.0	21.7	20.0	20.0	21.6	20.0	20.0	22.1	20.0	20.0
Injection rate	cm <sup>3</sup> /s	467	560	662	578	683	797	766	894	1031	913	1060	1236
Max. injection speed	mm/s		89.0			86.9			97.6			86.4	
Screw stroke	mm		400			435			550			600	
Max. screw speed	r/min		154			139			128			113	
Screw torque	Nm		6688			8639			11982			14769	
Plasticising rate (PS)	g/s	98	127	180	95	156	199	150	165	215	197	261	327
Heating capacity	kW	37.82	37.82	41.32	47.42	47.42	51.82	46.52	46.52	51.32	66.37	66.37	70.63
Barrel heating zone number	PCS		6			7			7			8	
Nozzle contact force	kN		178.6			178.6			263.8			263.8	
Carriage stroke	mm		620			730			760			760	

## CLAMPING UNIT

Clamping force	kN	8000/9000											
Opening force	kN	760											
Platen size	mm	1755x1655											
Distance between tie-bars	mm	1180x1020											
Mould thickness	mm	480-1120											
Max. opening stroke	mm	1650											
Max. daylight	mm	2130											
Ejector force	kN	220											
Ejector stroke	mm	320											
Ejector number	PCS	17											

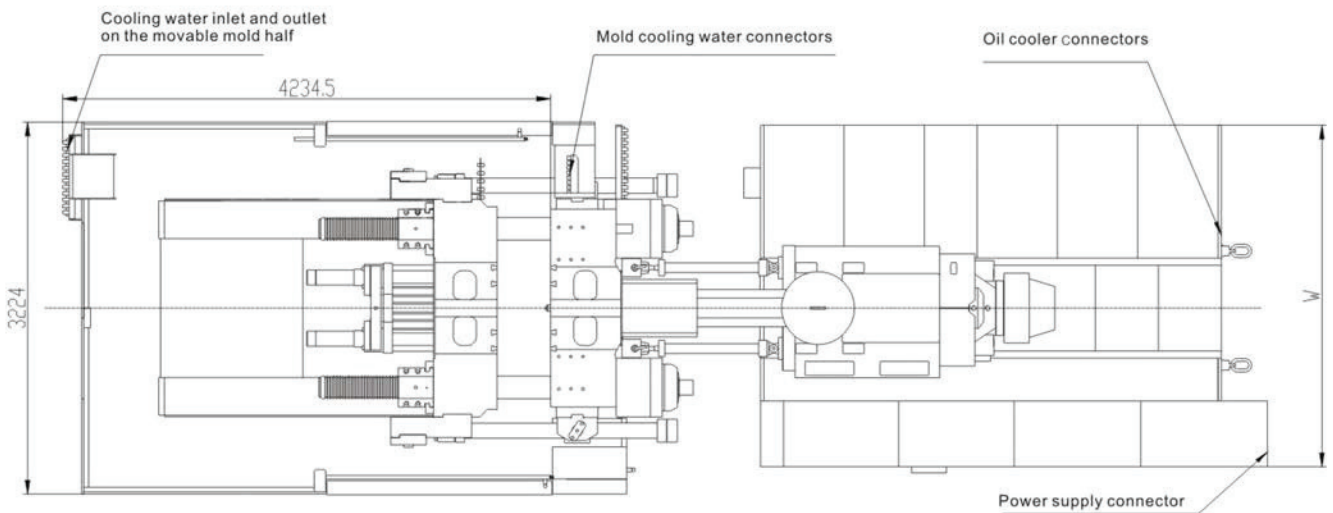
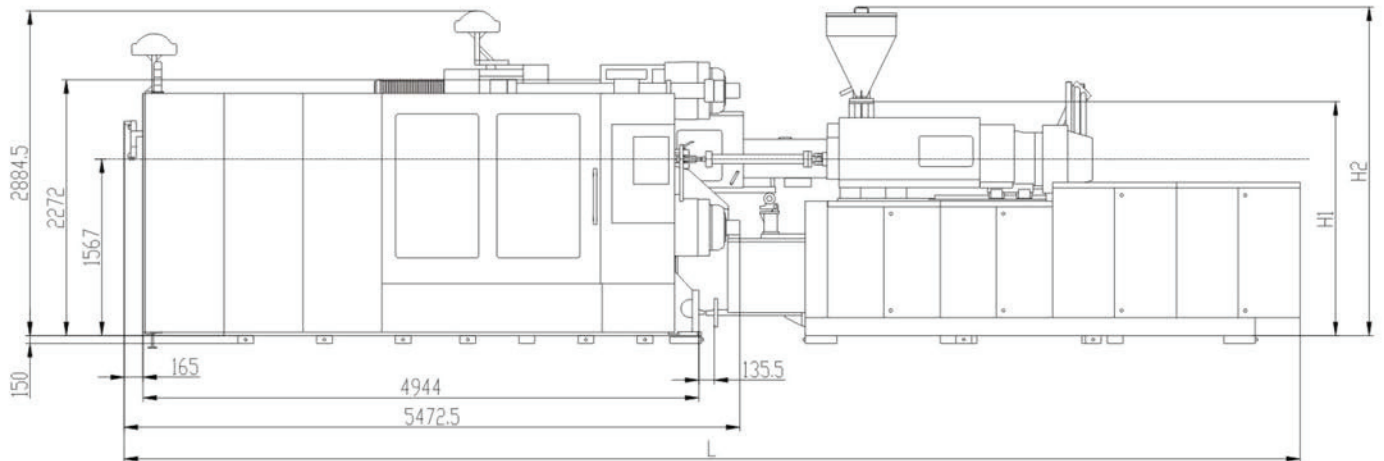
## ELECTRICAL & HYDRAULIC UNITS

System pressure	Mpa	17.5, 25			17.5, 25			17.5, 25			17.5, 25		
Motor	kW	28.7x2 + 39.4			31x2 + 39.4			55.6 + 39.4 +31			55.6x2 + 39.4		
Pump flow	L/min	370			432			550			600		
Total power	kW	134.6	134.6	138.1	148.82	185.82	153.22	172.5	172.5	177.3	217	217	221.2

## GENERAL

Oil tank capacity	L	1000			1000			1600			1800		
Dry cycle	s/mm	4.8/826			4.8/826			4.5/826			4.5/826		
Max. Mould weight	T	14			14			14			14		
Machine weight (clamping + injection units, without oil)	T	32+10			32+11			32+12			32+14		
Machine dimensions (LxWxH)	m	10.5x3.2x2.9			10.5x3.2x2.9			10.5x3.3x2.9			10.5x3.3x3.1		

## MACHINE DIMENSIONS



## PLATEN DRAWINGS

