

# UN1700DP / UN18500DP 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			31750		
		A	B	C	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	155	165	180
Theoretical shot volume	cm <sup>3</sup>	4320	5039	5812	6341	7363	8588	10020	11559	13208	12385	14152	16037	15661	17747	21121
Shot weight	g	3974	4636	5347	5833	6774	7901	9218	10634	12152	11394	13020	14756	14409	16328	19431
Injection pressure	MPa	209	179	155	190	164	140	184	160	140	192	168	148	215	190	159
Screw L:D ratio	L/D	21.6	20	20	22	20	20	23.6	22	20	23.5	22	20.1	20.8	22	22
Injection rate	cm <sup>3</sup> /s	766	894	1031	913	1060	1237	1251	1444	1650	1505	1715	1950	1670	1892	2252
Max. injection speed	mm/s		97.6			86.4			87.4			91.1			88.5	
Screw stroke	mm		550			600			700			750			830	
Max. screw speed	r/min		128			113			118			114			98	
Screw torque	Nm		11982			14769			18949			24522			34833	
Heating capacity	kW	46.52	46.52	51.32	66.39	66.39	70.65		98.9			112.39			144.63	
Barrel heating zone number	PCS		7			8			8			10			10	
Nozzle contact force	kN		178.6			178.6			296.7			296.7			296.7	
CLAMPING UNIT																
Clamping force	kN	17000 / 18500														
Opening force	kN	1380														
Platen size	mm	2660 x 2240														
Distance between tie-bars	mm	1870 x 1425														
Mould thickness	mm	750 - 1650														
Max. opening stroke	mm	2700														
Max. daylight	mm	3450														
Ejector force	kN	300														
Ejector stroke	mm	400														
Ejector number	PCS	33														
ELECTRICAL & HYDRAULIC UNITS																
System pressure	MPa	17.5 / 25			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			60 x 4 + 55.6		
Total power	kW	172.5	172.5	177.3	217	217	221.2	278.9			348			440.2		
GENERAL																
Oil tank capacity	L	1500			1500			2400			2600			3400		
Dry cycle	s/mm	8.2 / 1309			7.8 / 1309			7.7 / 1309			7.4 / 1309			7.4 / 1309		
Max. mould weight	T	45			45			45			45			45		
Machine weight	T	73 + 12			73 + 14			73 + 22			73 + 23			73 + 37		
Machine dimensions (LxWxH)	m	12.5 x 4.2 x 3.6			12.5 x 4.2 x 3.6			13.5 x 4.2 x 3.6			14.1 x 4.2 x 3.6			14.6 x 4.2 x 3.7		

