

UN500DP 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		1885			2695			3330			4800		
		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	60	68	76	68	76	84	76	84	92	84	92	108
Theoretical shot volume	cm ³	834	1071	1338	1198	1497	1829	1678	2050	2460	2217	2659	3664
2446S3371hot weight	g	767	986	1231	1103	1377	1683	1544	1886	2263	2039	2446	3771
Injection pressure	MPa	226	176	141	225	180	147	199	162	136	218	181	131
Screw L:D ratio	L/D	22.6	20	20	22.3	20	20	22.1	20	20	21.9	20	20
Injection rate	cm ³ /s	322	414	517	383	478	584	430	526	632	516	619	853
Max. injection speed	mm/s	114			105			95			93		
Screw stroke	mm	295			330			370			400		
Max. screw speed	r/min	250			184			147			154		
Screw torque	Nm	2787			4459			5573			6967		
Heating capacity	kW	22.2	22.2	24.6	26.4	26.4	30.9	33.1	33.1	36.2	37.82	37.82	47
Barrel heating zone number	PCS	5			6			6			6		
Nozzle contact force	kN	131.9			131.9			131.9			247.3		
CLAMPING UNIT													
Clamping force	kN	5000											
Opening force	kN	390											
Platen size	mm	1270 x 1260											
Distance between tie-bars	mm	910 x 830											
Mould thickness	mm	350 - 900											
Max. opening stroke	mm	1300											
Max. daylight	mm	1650											
Ejector force	kN	110											
Ejector stroke	mm	250											
Ejector number	PCS	21											
ELECTRICAL & HYDRAULIC UNITS													
System pressure	MPa	17.5 / 30			17.5 / 30			17.5 / 30			17.5 / 30		
Pump motor	kW	39.4 + 16.4 + 7.5			39.4 + 28.7 + 7.5			39.4 + 28.7 + 7.5			55.6 + 28.7 + 7.5		
Total power	kW	85.5	85.5	87.9	102	102	106.5	108.7	108.7	111.8	129.6	129.6	138.8
GENERAL													
Oil tank capacity	L	650			750			750			1000		
Dry cycle	s/mm	5 / 637			4.4 / 637			4.4 / 637			4.2 / 637		
Max. Mould weight	T	8			8			8			8		
Machine weight	T	12 + 4			12 + 5			12 + 5.5			12 + 6.5		
Machine dimensions	LxWxH	7.8 x 2.4 x 2.6			7.8 x 2.4 x 2.6			7.8 x 2.4 x 2.6			8.7 x 2.4 x 2.6		

