

**TECHNICAL SPECIFICATION OF KL SERVO SERIES**

PARAMETERS	UNIT	KL 350									KL 450								
INJECTION UNIT		1560			2275			3700			2275			3700			5700		
Screw Diameter	mm	50	60	70	60	70	80	70	80	90	60	70	80	70	80	90	80	90	100
Injection Pressure	bar	2430	1969	1446	2514	1847	1414	2400	1838	1452	2514	1847	1414	2400	1838	1452	2520	1991	1613
Stroke Volume	cc	550	792	1078	905	1231	1608	1539	2011	2545	905	1231	1608	1539	2011	2545	2262	2863	3534
Screw Stroke	mm	280			320			400			320			400			450		
Max. Injected Weight (GPPS)	gm.	522.3	752.1	1024	860	1169	1527	1462	1910	2417	860	1169	1527	1462	1910	2417	2149	2720	3358
Injection Rate	cc/s	222	319	434	304	414	540	436	570	721	304	414	540	436	570	721	416	526	649
Plasticising Rate (GPPS) @ Max. Speed	g/s	65	70	80	70	80	95	88	115	145	70	80	95	88	115	145	95	114	140
Screw Speed - Max.	rpm	250			175			175			175			175			140		
L/D Ratio		28.0	23.3	20.0	26.7	22.9	20.0	25.7	22.5	20.0	26.7	22.9	20.0	25.7	22.5	20.0	25.0	22.2	20.0
Heating Capacity	kW	24.5			26.3			36.9			26.3			36.9			50.2		
No. of Heating Zones	no.	5			6			7			6			7			7		
Nozzle Protrusion	mm	30			65			65			65			65			65		
Nozzle Contact Force	kN	60			75			150			75			150			150		
CLOSING UNIT																			
Clamping Force	kN	3434									4415								
Mould Opening Stroke	mm	1350									1450								
Mould Height (Min. ~ Max.)	mm	350 ~ 850									350 ~ 900								
Distance Between Platens - Max.	mm	1700									1800								
Distance Between Tiebars (H x V)	mm	810 x 810									920 x 830								
Clamping Platens ( H x V )	mm	1140 x 1180									1325 x 1250								
Ejector Force	kN	125									125								
Ejector Stroke	mm	250									250								
Maximum Mould weight	kg	7000									8000								
GENERAL DATA																			
Pump Drive	kW	15			17			28.4			17			33.9 (28.4 + 5.5)			33.9 (28.4 + 5.5)		
Overall Dimensions	mm	7115 x 2212 x 2618			7115 x 2212 x 2618			8100 x 2332 x 2800			7333 x 2354 x 2631			8274 x 2617 x 2632			8490 x 2617 x 2632		
Total Connected Load	kW	39.5			43.3			65.3			43.3			70.8			84.1		
Oil Tank Capacity	ltr.	600			600			700			600			700			700		
Hopper capacity	ltr.	120			120			200			120			200			200		
Machine weight	ton	14.3			14.5			18 (11+7)			16.5			18.8 (11.8 + 7)			20 (11.8+8.2)		
PARAMETERS	UNIT	KL 550									KL650								
INJECTION UNIT		3700			5700			7500			3700			5700			7500		
Screw Diameter	mm	70	80	90	80	90	100	90	100	110	70	80	90	80	90	100	90	100	110
Injection Pressure	bar	2400	1838	1452	2520	1991	1613	2359	1911	1579	2400	1838	1452	2520	1991	1613	2359	1911	1579
Stroke Volume	cc	1539	2011	2545	2262	2863	3534	3181	3927	4752	1539	2011	2545	2262	2863	3534	3181	3927	4752
Screw Stroke	mm	400			450			500			400			450			500		
Max. Injected Weight (GPPS)	gm.	1462	1910	2417	2149	2720	3358	3022	3731	4514	1462	1910	2417	2149	2720	3358	3022	3731	4514
Injection Rate	cc/s	436	570	721	416	526	649	507	626	758	436	570	721	416	526	649	507	626	758
Plasticising Rate (GPPS) @ Max. Speed	g/s	88	115	145	95	114	140	114	140	160	88	115	145	95	114	140	114	140	160
Screw Speed - Max.	rpm	175			140			120			175			140			120		
L/D Ratio		25.7	22.5	20.0	25.0	22.2	20.0	24.4	22.0	20.0	25.7	22.5	20.0	25.0	22.2	20.0	24.4	22.0	20.0
Heating Capacity	kW	36.9			50.2			64.4			36.9			50.2			64.4		
No. of Heating Zones	no.	7			7			7			7			7			7		
Nozzle Protrusion	mm	65			65			65			65			65			65		
Nozzle Contact Force	kN	150			150			150			150			150			150		
CLOSING UNIT																			
Clamping Force	kN	5396									6377								
Mould Opening Stroke	mm	1750									1800								
Mould Height (Min. ~ Max.)	mm	350 ~ 950									400 ~ 1050								
Distance Between Platens - Max.	mm	2100									2200								
Distance Between Tiebars (H x V)	mm	1000 x 900									1100 x 1050								
Clamping Platens ( H x V )	mm	1350 x 1290									1550 x 1500								
Ejector Force	kN	125									125								
Ejector Stroke	mm	250									250								
Maximum Mould weight	kg	10000									12000								
GENERAL DATA																			
Pump Drive	kW	33.9 (28.4 + 5.5)			33.9 (28.4 + 5.5)			35.7 (30.2 + 5.5)			33.9 (28.4 + 5.5)			33.9 (28.4 + 5.5)			35.7 (30.2 + 5.5)		
Overall Dimensions	mm	8715 x 2444 x 2698			8930 x 2444 x 2698			9265 x 2444 x 2698			8766 x 2690 x 2800			9000 x 2690 x 2800			9320 x 2690 x 2800		
Total Connected Load	kW	70.8			84.1			100.1			70.8			84.1			100.1		
Oil Tank Capacity	ltr.	700			700			700			700			700			700		
Hopper capacity	ltr.	200			200			200			200			200			200		
Machine weight	ton	21 (14+7)			22.2 (14+8.2)			24 (14+10)			24.5 (17.5+7)			25.7 (17.5+8.2)			27.5 (17.5+10)		

**TECHNICAL SPECIFICATION OF KL SERVO SERIES**

PARAMETERS	UNIT	KL 850									KL 1000								
INJECTION UNIT		5700			7500			10400			7500			10400			14000		
Screw Diameter	mm	80	90	100	90	100	110	100	110	120	90	100	110	100	110	120	110	120	130
Injection Pressure	bar	2520	1991	1613	2359	1911	1579	2406	1988	1671	2359	1911	1579	2406	1988	1671	2444	2053	1750
Stroke Volume	cc	2262	2863	3534	3181	3927	4752	4320	5227	6220	3181	3927	4752	4320	5227	6220	5702	6786	7964
Screw Stroke	mm	450			500			550			500			550			600		
Max. Injected Weight (GPPS)	gm.	2149	2720	3358	3022	3731	4514	4104	4965	5909	3022	3731	4514	4104	4965	5909	5417	6447	7566
Injection Rate	cc/s	416	526	649	507	626	758	663	803	955	507	626	758	663	803	955	653	777	912
Plasticising Rate (GPPS) @ Max. Speed	g/s	95	114	140	114	140	160	140	160	180	114	140	160	140	160	180	160	180	200
Screw Speed - Max.	rpm	140			120			150			120			150			150		
L/D Ratio		25.0	22.2	20.0	24.4	22.0	20.0	24.0	21.8	20.0	24.4	22.0	20.0	24.0	21.8	20.0	23.6	21.7	20.0
Heating Capacity	kW	50.2			64.4			65.9			64.4			65.9			76.4		
No. of Heating Zones	no.	7			7			7			7			7			7		
Nozzle Protrusion	mm	65			65			65			65			65			65		
Nozzle Contact Force	kN	150			150			150			150			150			150		
<b>CLOSING UNIT</b>																			
Clamping Force	kN	8339									9810								
Mould Opening Stroke	mm	1900									1950								
Mould Height (Min. ~ Max.)	mm	500 ~ 1200									600 ~ 1300								
Distance Between Platens - Max.	mm	2400									2550								
Distance Between Tiebars (H x V)	mm	1400 x 1100									1550 x 1250								
Clamping Platens ( H x V )	mm	1840 x 1630									2020 x 1820								
Ejector Force	kN	275									275								
Ejector Stroke	mm	300									300								
Maximum Mould weight	kg	17500									20500								
<b>GENERAL DATA</b>																			
Pump Drive	kW	33.9 (28.4 + 5.5)			35.7 (30.2 + 5.5)			48.9 (43.4 + 5.5)			35.7 (30.2 + 5.5)			48.9 (43.4 + 5.5)			48.9 (43.4 + 5.5)		
Overall Dimensions	mm	9093 x 3000 x 2713			10104 x 3000 x 2713			10371 x 3000 x 2713			10505 x 3370 x 2840			10505 x 3370 x 2840			10805 x 3370 x 2840		
Total Connected Load	kW	84.1			100.1			114.8			100.1			114.8			125.3		
Oil Tank Capacity	ltr.	700			700			1200			700			1200			1200		
Hopper capacity	ltr.	200			200			200			200			200			200		
Machine weight	ton	33 (24.8 + 8.2)			36.8 (24.8+10)			38.8 (24.8+12)			42 (32+10)			44 (32+12)			47 (32+15)		
<b>PARAMETERS</b>																			
		KL 1300									KL 1600								
INJECTION UNIT		10400			14000			17000			14000			17000			18400		
Screw Diameter	mm	100	110	120	110	120	130	120	130	140	110	120	130	120	130	140	130	140	150
Injection Pressure	bar	2406	1988	1671	2444	2053	1750	2330	1986	1712	2444	2053	1750	2330	1986	1712	1986	1712	1491
Stroke Volume	cc	4320	5227	6220	5702	6786	7964	7351	8628	10006	5702	6786	7964	7351	8628	10006	9291	10776	12370
Screw Stroke	mm	550			600			650			600			650			700		
Max. Injected Weight (GPPS)	gm.	4104	4965	5909	5417	6447	7566	6984	8196	9506	5417	6447	7566	6984	8196	9506	8827	10237	11752
Injection Rate	cc/s	663	803	955	653	777	912	856	1005	1165	653	777	912	856	1005	1165	1005	1165	1338
Plasticising Rate (GPPS) @ Max. Speed	g/s	140	160	180	160	180	200	160	180	200	160	180	200	160	180	200	180	200	220
Screw Speed - Max.	rpm	150			150			140			150			140			140		
L/D Ratio		24.0	21.8	20.0	23.6	21.7	20.0	23.3	21.5	20.0	23.6	21.7	20.0	23.3	21.5	20.0	23.1	21.4	20.0
Heating Capacity	kW	65.9			76.4			85.0			76.4			85.0			92.0		
No. of Heating Zones	no.	7			7			7			7			7			7		
Nozzle Protrusion	mm	65			65			65			65			65			65		
Nozzle Contact Force	kN	150			150			210			150			210			210		
<b>CLOSING UNIT</b>																			
Clamping Force	kN	12753									15696								
Mould Opening Stroke	mm	2300									2600								
Mould Height (Min. ~ Max.)	mm	700 ~ 1400									700 ~ 1600								
Distance Between Platens - Max.	mm	3000									3300								
Distance Between Tiebars (H x V)	mm	1680 x 1330									1890 x 1440								
Clamping Platens ( H x V )	mm	2140 x 1915									2370 x 2020								
Ejector Force	kN	275									275								
Ejector Stroke	mm	300									300								
Maximum Mould weight	kg	25500									36000								
<b>GENERAL DATA</b>																			
Pump Drive	kW	48.9 (43.4 + 5.5)			48.9 (43.4 + 5.5)			62.1 (56.6 + 5.5)			48.9 (43.4 + 5.5)			62.1 (56.6 + 5.5)			62.1 (56.6 + 5.5)		
Overall Dimensions	mm	11400 x 3600 x 3000			11700 x 3600 x 3000			12700 x 3600 x 3000			12700 x 3900 x 3200			13700 x 3900 x 3200			13700 x 3900 x 3200		
Total Connected Load	kW	114.8			125.2			147.1			125.3			147.1			154.1		
Oil Tank Capacity	ltr.	1200			1200			1500			1200			1500			1500		
Hopper capacity	ltr.	200			200			200			200			200			200		
Machine weight	ton	56 (42+14)			59 (42+17)			62 (42+20)			76 (59+17)			79 (59+20)			80 (59+21)		
<b>PARAMETERS</b>																			
		KL 1800									KL 2000								
INJECTION UNIT		17000			18400			25000			17000			18400			25000		
Screw Diameter	mm	120	130	140	130	140	150	140	150	160	120	130	140	130	140	150	140	150	160
Injection Pressure	bar	2330	1986	1712	1986	1712	1491	2143	1867	1641	2330	1986	1712	1986	1712	1491	2143	1867	1641
Stroke Volume	cc	7351	8628	10006	9291	10776	12370	11545	13254	15080	7351	8628	10006	9291	10776	12370	11545	13254	15080
Screw Stroke	mm	650			700			750			650			700			750		
Max. Injected Weight (GPPS)	gm.	6984	8196	9506	8827	10237	11752	10968	12591	14326	6984	8196	9506	8827	10237	11752	10968	12591	14326
Injection Rate	cc/s	856	1005	1165	1005	1165	1338	931	1069	1216	856	1005	1165	1005	1165	1338	931	1069	1216
Plasticising Rate (GPPS) @ Max. Speed	g/s	160	180	200	180	200	220	180	200	220	160	180	200	180	200	220	180	200	220
Screw Speed - Max.	rpm	140			140			86			140			140			86		
L/D Ratio		23.3	21.5	20.0	23.1	21.4	20.0	22.9	21.3	20.0	23.3	21.5	20.0	23.1	21.4	20.0	22.9	21.3	20.0
Heating Capacity	kW	85.0			92.0			109.0			85.0			92.0			109.0		
No. of Heating Zones	no.	7			7			7			7			7			7		
Nozzle Protrusion	mm	65			65			65			65			65			65		
Nozzle Contact Force	kN	210			210			210			210			210			210		
<b>CLOSING UNIT</b>																			
Clamping Force	kN	17658									19620								
Mould Opening Stroke	mm	2600									3000								
Mould Height (Min. ~ Max.)	mm	700 ~ 1600									900 ~ 1800								
Distance Between Platens - Max.	mm	3300									3900								
Distance Between Tiebars (H x V)	mm	1870 x 1420									2015 x 1615								
Clamping Platens ( H x V )	mm	2370 x 2020									2800 x 2415								
Ejector Force	kN	275									385								
Ejector Stroke	mm	300									350								
Maximum Mould weight	kg	36000									40000								
<b>GENERAL DATA</b>																			
Pump Drive	kW	62.1 (56.6 + 5.5)			62.1 (56.6 + 5.5)			62.1 (56.6 + 5.5)			62.1 (56.6 + 5.5)			62.1 (56.6 + 5.5)			62.1 (56.6 + 5.5)		
Overall Dimensions	mm	13700 x 3900 x 3200			13700 x 3900 x 3200			13700 x 3900 x 3200			14700 x 4500 x 3200			14700 x 4500 x 3200			15000 x 4500 x 3200		
Total Connected Load	kW	147.1			154.1			171.1			147.1			154.1			171.1		
Oil Tank Capacity	ltr.	1500			1500			1500			1500			1500			1500		
Hopper capacity	ltr.	200			200			200			200			200			200		
Machine weight	ton	80 (60+20)			81 (60+21)			83 (60+23)			100 (80+20)			101 (80+21)			103 (80+23)		