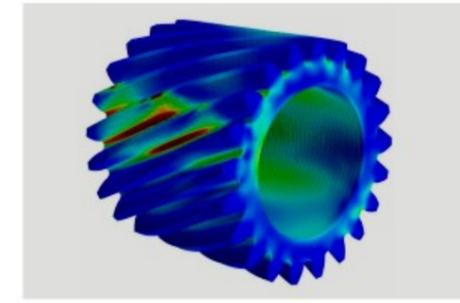




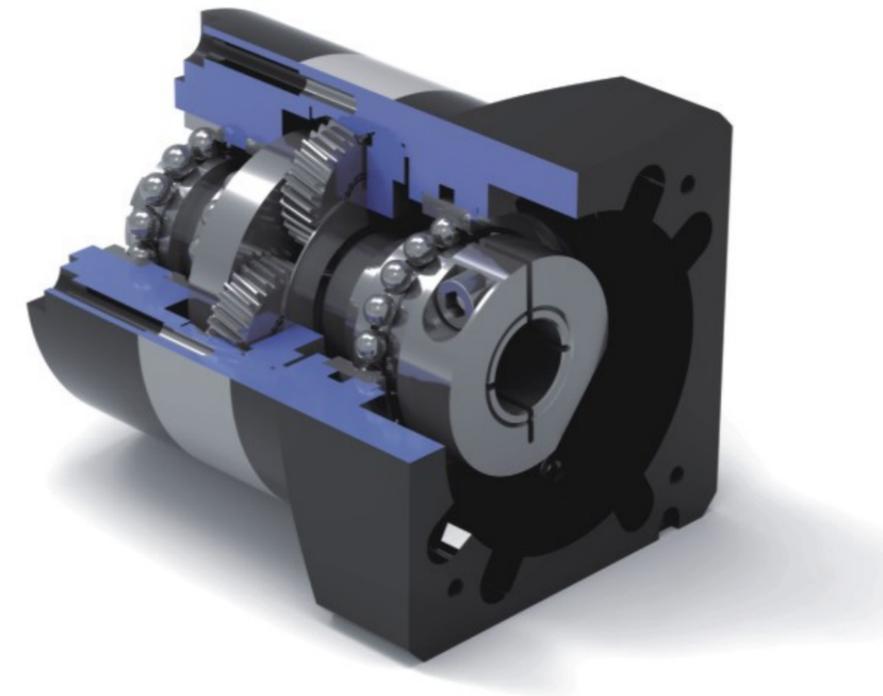
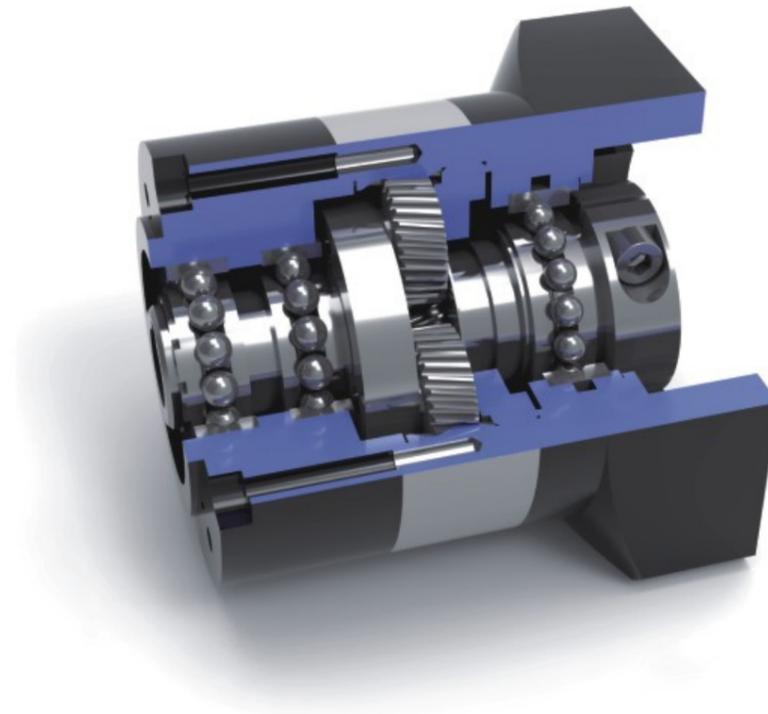
Helical Gear System Technology

Thanks to the tooth to tooth compact ratio more than 60%.The helical gearing and full needle bearing bring the benefits including higher torque capacity, smooth and lower noise running, decreased backlash and higher efficiency.



Gear Grinding and Heat Treatment Technology

The global leading gear grinding technology brings the great improvement for the tooth profile optimization, with the high level carburizing and quenching heat treatment technology to reach high precision and gear harden performance.



The Powerful Cantilever Planetary Carrier

The powerful cantilever planetary carrier provide great mechanical support for planetary gears, thus the complete gearbox can reach high level stability. Synthetic grease lubrication allows maintenance free for gearbox whole service life.



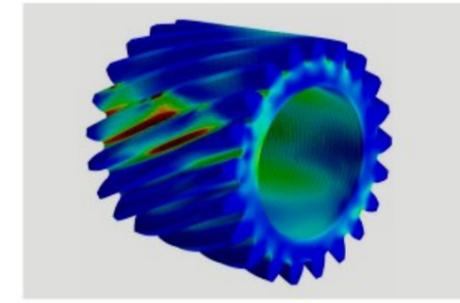
Dynamic Balance Clamping and Sealing System

For the gearbox input dynamic balance clamping design with perfect concentricity to decrease backlash and increase gearbox operation stability. The ultra sealing system offers grease leakage protection and support gearbox to reach IP65.



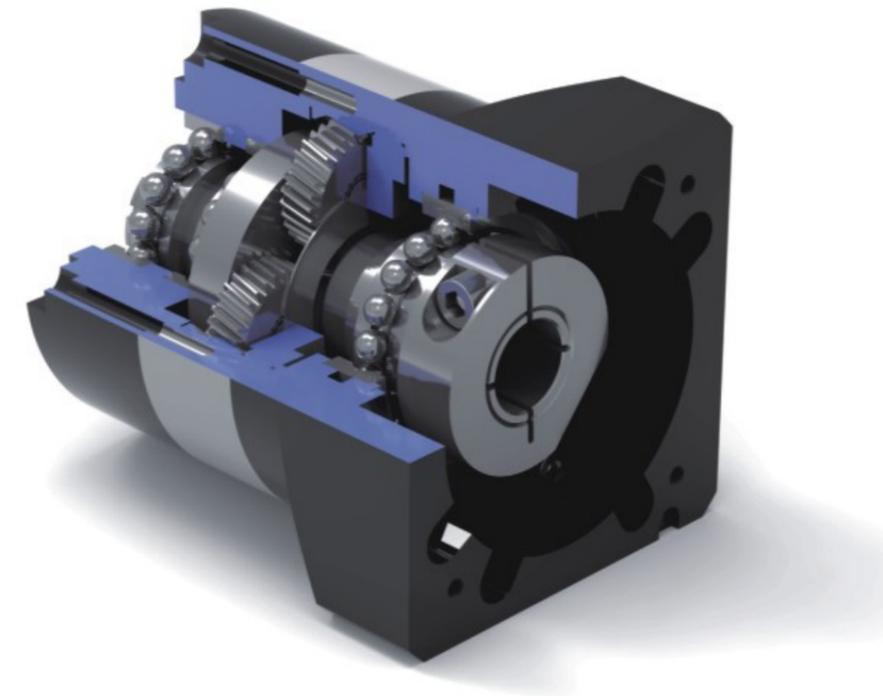
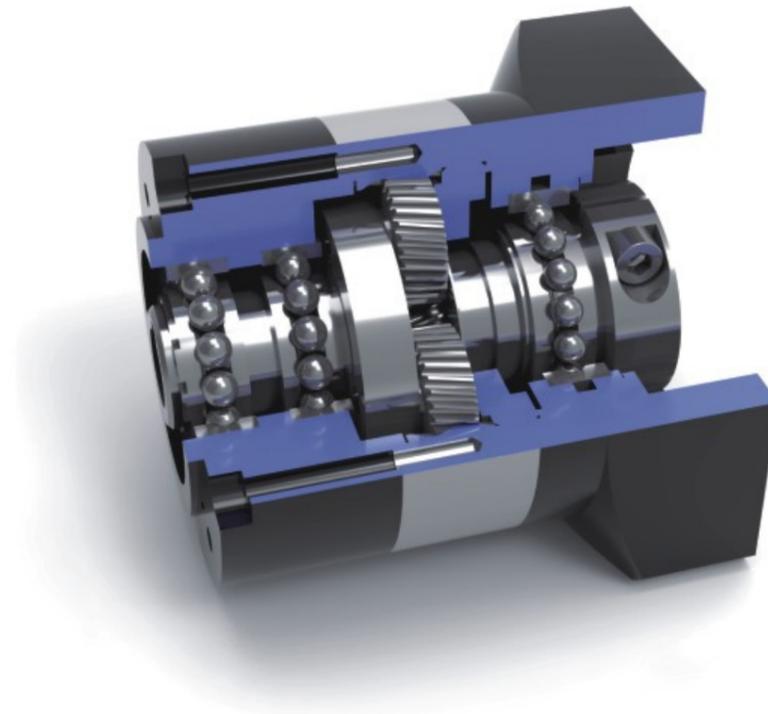
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Dynamic Balance Clamping and Sealing System

For the gearbox input dynamic balance clamping design with perfect concentricity to decrease backlash and increase gearbox operation stability. The ultra sealing system offers grease leakage protection and support gearbox to reach IP65.

SPLN070 1-stage

		1-stage									
Ratio	i		3	4	5	6	7	8	9	10	
Nominal Output Torque		Nm	35	42	44	40	40	38	36	32	
		in.lb	310	372	389	354	354	336	319	283	
Emergency Stop Torque	T_{2Max}	Nm	70	84	88	80	80	76	72	64	
		in.lb	620	743	779	708	708	673	637	566	
Maximum Acceleration Torque	T_{2a}	Nm	63	75.6	79.2	72	72	68.4	64.8	57.6	
		in.lb	558	669	701	637	637	605	574	510	
Maximum Torque	T_{2a}	Nm	70	84	88	80	80	76	72	64	
		in.lb	620	743	779	708	708	673	637	566	
Permitted Average Input Speed	n_{1a}	rpm	4000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	0.24	0.2	0.17	0.15	0.15	0.15	0.15	0.15	
		in.lb	2.12	1.77	1.50	1.33	1.33	1.33	1.33	1.33	
Maximum Torsional Backlash	j_i	arcmin	≤ 8								
Torsional Rigidity	C_{21}	Nm/arcmin	3	3	3	3	3	3	3	3	
		in.lb/arcmin	26.55	26.55	26.55	26.55	26.55	26.55	26.55	26.55	
Maximum Radial Load	F_{2Max}	N	550								
		lb _f	123.64								
Maximum Axial Load	F_{2CMax}	N	375								
		lb _f	84.30								
Max. Tilting Moment	M_{2CMax}	Nm	80								
		in.lb	708.06								
Mass Moment of Inertia	j_1	kgcm ²	0.135	0.093	0.078	0.070	0.069	0.650	0.065	0.065	
Operating Noise Level	L_{Pa}	dB(A)	< 58								
Efficiency at Full loading	η	%	97								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	1.3								
		lb _m	2.86598								

SPLN070 2-stages

		2-stages									
Ratio	i		12	15	16	20	25	32	40	64	
Nominal Output Torque		Nm	37	37	44	44	44	44	44	44	38
		in.lb	327	327	389	389	389	389	389	389	336
Emergency Stop Torque	T_{2Max}	Nm	74	74	88	88	88	88	88	88	76
		in.lb	655	655	779	779	779	779	779	779	673
Maximum Acceleration Torque	T_{2a}	Nm	66.6	66.6	79.2	79.2	79.2	79.2	79.2	79.2	68.4
		in.lb	589	589	701	701	701	701	701	701	605
Maximum Torque	T_{2a}	Nm	74	74	88	88	88	88	88	88	76
		in.lb	655	655	779	779	779	779	779	779	673
Permitted Average Input Speed	n_{1a}	rpm	4000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	0.2	0.17	0.2	0.17	0.17	0.15	0.15	0.15	
		in.lb	1.77	1.50	1.77	1.50	1.50	1.33	1.33	1.33	
Maximum Torsional Backlash	j_i	arcmin	≤ 10								
Torsional Rigidity	C_{21}	Nm/arcmin	3	3	3	3	3	3	3	3	
		in.lb/arcmin	26.55	26.55	26.55	26.55	26.55	26.55	26.55	26.55	
Maximum Radial Load	F_{2Max}	N	550								
		lb _f	123.64								
Maximum Axial Load	F_{2CMax}	N	375								
		lb _f	84.30								
Max. Tilting Moment	M_{2CMax}	Nm	80								
		in.lb	708.06								
Mass Moment of Inertia	j_1	kgcm ²	0.105	0.095	0.088	0.075	0.075	0.064	0.064	0.064	
Operating Noise Level	L_{Pa}	dB(A)	< 58								
Efficiency at Full loading	η	%	95								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	1.8								
		lb _m	3.97								

SPLN070 1-stage

		1-stage									
Ratio	i		3	4	5	6	7	8	9	10	
Nominal Output Torque		Nm	35	42	44	40	40	38	36	32	
		in.lb	310	372	389	354	354	336	319	283	
Emergency Stop Torque	T_{2Max}	Nm	70	84	88	80	80	76	72	64	
		in.lb	620	743	779	708	708	673	637	566	
Maximum Acceleration Torque	T_{2a}	Nm	63	75.6	79.2	72	72	68.4	64.8	57.6	
		in.lb	558	669	701	637	637	605	574	510	
Maximum Torque	T_{2a}	Nm	70	84	88	80	80	76	72	64	
		in.lb	620	743	779	708	708	673	637	566	
Permitted Average Input Speed	n_{1a}	rpm	4000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	0.24	0.2	0.17	0.15	0.15	0.15	0.15	0.15	
		in.lb	2.12	1.77	1.50	1.33	1.33	1.33	1.33	1.33	
Maximum Torsional Backlash	j_i	arcmin	≤ 8								
Torsional Rigidity	C_{21}	Nm/arcmin	3	3	3	3	3	3	3	3	
		in.lb/arcmin	26.55	26.55	26.55	26.55	26.55	26.55	26.55	26.55	
Maximum Radial Load	F_{2Max}	N	550								
		lb _f	123.64								
Maximum Axial Load	F_{2CMax}	N	375								
		lb _f	84.30								
Max. Tilting Moment	M_{2CMax}	Nm	80								
		in.lb	708.06								
Mass Moment of Inertia	j_1	kgcm ²	0.135	0.093	0.078	0.070	0.069	0.650	0.065	0.065	
Operating Noise Level	L_{Pa}	dB(A)	< 58								
Efficiency at Full loading	η	%	97								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	1.3								
		lb _m	2.86598								

SPLN070 2-stages

		2-stages									
Ratio	i		12	15	16	20	25	32	40	64	
Nominal Output Torque		Nm	37	37	44	44	44	44	44	44	38
		in.lb	327	327	389	389	389	389	389	389	336
Emergency Stop Torque	T_{2Max}	Nm	74	74	88	88	88	88	88	88	76
		in.lb	655	655	779	779	779	779	779	779	673
Maximum Acceleration Torque	T_{2a}	Nm	66.6	66.6	79.2	79.2	79.2	79.2	79.2	79.2	68.4
		in.lb	589	589	701	701	701	701	701	701	605
Maximum Torque	T_{2a}	Nm	74	74	88	88	88	88	88	88	76
		in.lb	655	655	779	779	779	779	779	779	673
Permitted Average Input Speed	n_{1a}	rpm	4000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	0.2	0.17	0.2	0.17	0.17	0.15	0.15	0.15	
		in.lb	1.77	1.50	1.77	1.50	1.50	1.33	1.33	1.33	
Maximum Torsional Backlash	j_i	arcmin	≤ 10								
Torsional Rigidity	C_{21}	Nm/arcmin	3	3	3	3	3	3	3	3	
		in.lb/arcmin	26.55	26.55	26.55	26.55	26.55	26.55	26.55	26.55	
Maximum Radial Load	F_{2Max}	N	550								
		lb _f	123.64								
Maximum Axial Load	F_{2CMax}	N	375								
		lb _f	84.30								
Max. Tilting Moment	M_{2CMax}	Nm	80								
		in.lb	708.06								
Mass Moment of Inertia	j_1	kgcm ²	0.105	0.095	0.088	0.075	0.075	0.064	0.064	0.064	
Operating Noise Level	L_{Pa}	dB(A)	< 58								
Efficiency at Full loading	η	%	95								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	1.8								
		lb _m	3.97								

SPLN070 3-stages

		3-stages									
Ratio	i		80	100	125	160	200	256	320	512	
Nominal Output Torque		Nm	45	45	45	45	45	45	45	38	
		in.lb	398	398	398	398	398	398	398	336	
Emergency Stop Torque	T_{2Max}	Nm	90	90	90	90	90	90	90	76	
		in.lb	797	797	797	797	797	797	797	673	
Maximum Acceleration Torque	T_{2a}	Nm	81	81	81	81	81	81	81	68	
		in.lb	717	717	717	717	717	717	717	605	
Maximum Torque	T_{2a}	Nm	90	90	90	90	90	90	90	76	
		in.lb	797	299	299	299	299	299	299	229	
Permitted Average Input Speed	n_{1N}	rpm	4000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	0.17	0.17	0.17	0.15	0.15	0.15	0.15	0.15	
		in.lb	1.50	1.50	1.50	1.33	1.33	1.33	1.33	1.33	
Maximum Torsional Backlash	j_i	arcmin	≤ 12								
Torsional Rigidity	C_{21}	Nm/arcmin	3	3	3	3	3	3	3	3	
		in.lb/arcmin	26.55	26.55	26.55	26.55	26.55	26.55	26.55	26.55	
Maximum Radial Load	F_{2AMax}	N	550								
		lb _f	123.64								
Maximum Axial Load	F_{2OMax}	N	375								
		lb _f	84.30								
Max. Tilting Moment	M_{2OMax}	Nm	80								
		in.lb	708.056								
Mass Moment of Inertia	j_1	kgcm ²	0.075	0.064	0.064	0.064	0.064	0.064	0.064	0.064	
Operating Noise Level	L_{PA}	dB(A)	< 58								
Efficiency at Full loading	η	%	93								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	2								
		lb _m	4.4092								

SPLN090 1-stage

		1-stage									
Ratio	i		3	4	5	6	7	8	9	10	
Nominal Output Torque		Nm	100	110	115	105	100	95	90	81	
		in.lb	885	974	1018	929	885	841	797	717	
Emergency Stop Torque	T_{2Max}	Nm	200	220	230	210	200	190	180	162	
		in.lb	1770	1947	2036	1859	1770	1682	1593	1434	
Maximum Acceleration Torque	T_{2a}	Nm	180	198	207	189	180	171	162	145.8	
		in.lb	1593	1752	1832	1673	1593	1513	1434	1290	
Maximum Torque	T_{2a}	Nm	200	220	230	210	200	190	180	162	
		in.lb	1770	1947	2036	1859	1770	1682	1593	1434	
Permitted Average Input Speed	n_{1N}	rpm	3000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	0.38	0.36	0.31	0.29	0.25	0.25	0.25	0.25	
		in.lb	3.36	3.19	2.74	2.57	2.21	2.21	2.21	2.21	
Maximum Torsional Backlash	j_i	arcmin	≤ 8								
Torsional Rigidity	C_{21}	Nm/arcmin	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	
		in.lb/arcmin	42.48	42.48	42.48	42.48	42.48	42.48	42.48	42.48	
Maximum Radial Load	F_{2AMax}	N	1020								
		lb _f	229.30								
Maximum Axial Load	F_{2OMax}	N	570								
		lb _f	128.14								
Max. Tilting Moment	M_{2OMax}	Nm	200								
		in.lb	1770.14								
Mass Moment of Inertia	j_1	kgcm ²	0.770	0.520	0.450	0.420	0.400	0.390	0.390	0.390	
Operating Noise Level	L_{PA}	dB(A)	< 60								
Efficiency at Full loading	η	%	97								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	2.4								
		lb _m	5.29								

SPLN070 3-stages

		3-stages									
Ratio	i		80	100	125	160	200	256	320	512	
Nominal Output Torque		Nm	45	45	45	45	45	45	45	38	
		in.lb	398	398	398	398	398	398	398	336	
Emergency Stop Torque	T_{2Max}	Nm	90	90	90	90	90	90	90	76	
		in.lb	797	797	797	797	797	797	797	673	
Maximum Acceleration Torque	T_{2a}	Nm	81	81	81	81	81	81	81	68	
		in.lb	717	717	717	717	717	717	717	605	
Maximum Torque	T_{2a}	Nm	90	90	90	90	90	90	90	76	
		in.lb	797	299	299	299	299	299	299	229	
Permitted Average Input Speed	n_{1N}	rpm	4000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	0.17	0.17	0.17	0.15	0.15	0.15	0.15	0.15	
		in.lb	1.50	1.50	1.50	1.33	1.33	1.33	1.33	1.33	
Maximum Torsional Backlash	j_i	arcmin	≤ 12								
Torsional Rigidity	C_{21}	Nm/arcmin	3	3	3	3	3	3	3	3	
		in.lb/arcmin	26.55	26.55	26.55	26.55	26.55	26.55	26.55	26.55	
Maximum Radial Load	F_{2AMax}	N	550								
		lb _f	123.64								
Maximum Axial Load	F_{2OMax}	N	375								
		lb _f	84.30								
Max. Tilting Moment	M_{2OMax}	Nm	80								
		in.lb	708.056								
Mass Moment of Inertia	j_1	kgcm ²	0.075	0.064	0.064	0.064	0.064	0.064	0.064	0.064	
Operating Noise Level	L_{PA}	dB(A)	< 58								
Efficiency at Full loading	η	%	93								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	2								
		lb _m	4.4092								

SPLN090 1-stage

		1-stage									
Ratio	i		3	4	5	6	7	8	9	10	
Nominal Output Torque		Nm	100	110	115	105	100	95	90	81	
		in.lb	885	974	1018	929	885	841	797	717	
Emergency Stop Torque	T_{2Max}	Nm	200	220	230	210	200	190	180	162	
		in.lb	1770	1947	2036	1859	1770	1682	1593	1434	
Maximum Acceleration Torque	T_{2a}	Nm	180	198	207	189	180	171	162	145.8	
		in.lb	1593	1752	1832	1673	1593	1513	1434	1290	
Maximum Torque	T_{2a}	Nm	200	220	230	210	200	190	180	162	
		in.lb	1770	1947	2036	1859	1770	1682	1593	1434	
Permitted Average Input Speed	n_{1N}	rpm	3000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	0.38	0.36	0.31	0.29	0.25	0.25	0.25	0.25	
		in.lb	3.36	3.19	2.74	2.57	2.21	2.21	2.21	2.21	
Maximum Torsional Backlash	j_i	arcmin	≤ 8								
Torsional Rigidity	C_{21}	Nm/arcmin	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	
		in.lb/arcmin	42.48	42.48	42.48	42.48	42.48	42.48	42.48	42.48	
Maximum Radial Load	F_{2AMax}	N	1020								
		lb _f	229.30								
Maximum Axial Load	F_{2OMax}	N	570								
		lb _f	128.14								
Max. Tilting Moment	M_{2OMax}	Nm	200								
		in.lb	1770.14								
Mass Moment of Inertia	j_1	kgcm ²	0.770	0.520	0.450	0.420	0.400	0.390	0.390	0.390	
Operating Noise Level	L_{PA}	dB(A)	< 60								
Efficiency at Full loading	η	%	97								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	2.4								
		lb _m	5.29								

SPLN090 2-stages

		2-stages									
Ratio	i		12	15	16	20	25	32	40	64	
Nominal Output Torque		Nm	100	100	110	110	110	110	110	95	
		in.lb	885	885	974	974	974	974	974	841	
Emergency Stop Torque	T_{2Max}	Nm	200	200	220	220	220	220	220	190	
		in.lb	1770	1770	1947	1947	1947	1947	1947	1682	
Maximum Acceleration Torque	T_{2a}	Nm	180	180	198	198	198	198	198	171	
		in.lb	1593	1593	1752	1752	1752	1752	1752	1513	
Maximum Torque	T_{2a}	Nm	200	200	220	220	220	220	220	190	
		in.lb	1770	1770	1947	1947	1947	1947	1947	1682	
Permitted Average Input Speed	n_{1M}	rpm	3000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	0.36	0.31	0.36	0.31	0.31	0.25	0.25	0.25	
		in.lb	3.19	2.74	3.19	2.74	2.74	2.21	2.21	2.21	
Maximum Torsional Backlash	j_i	arcmin	≤ 10								
Torsional Rigidity	C_{21}	Nm/arcmin	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	
		in.lb/arcmin	42.48	42.48	42.48	42.48	42.48	42.48	42.48	42.48	
Maximum Radial Load	F_{2AMax}	N	1020								
		lb _f	229.30								
Maximum Axial Load	F_{2OMax}	N	570								
		lb _f	128.14								
Max. Tilting Moment	M_{2OMax}	Nm	200								
		in.lb	1770.14								
Mass Moment of Inertia	j_1	kgcm ²	0.670	0.510	0.500	0.440	0.440	0.390	0.390	0.390	
Operating Noise Level	L_{PA}	dB(A)	< 60								
Efficiency at Full loading	η	%	95								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	3.6								
		lb _m	7.94								

SPLN090 3-stages

		3-stages									
Ratio	i		80	100	125	160	200	256	320	512	
Nominal Output Torque		Nm	120	120	120	120	120	120	120	95	
		in.lb	1062	1062	1062	1062	1062	1062	1062	841	
Emergency Stop Torque	T_{2Max}	Nm	240	240	240	240	240	240	240	190	
		in.lb	2124	2124	2124	2124	2124	2124	2124	1682	
Maximum Acceleration Torque	T_{2a}	Nm	216	216	216	216	216	216	216	171	
		in.lb	1912	1912	1912	1912	1912	1912	1912	1513	
Maximum Torque	T_{2a}	Nm	240	240	240	240	240	240	240	190	
		in.lb	2124	2124	2124	2124	2124	2124	2124	1682	
Permitted Average Input Speed	n_{1M}	rpm	3000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	0.31	0.31	0.31	0.25	0.25	0.25	0.25	0.25	
		in.lb	2.74	2.74	2.74	2.21	2.21	2.21	2.21	2.21	
Maximum Torsional Backlash	j_i	arcmin	≤ 12								
Torsional Rigidity	C_{21}	Nm/arcmin	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	
		in.lb/arcmin	42.48	42.48	42.48	42.48	42.48	42.48	42.48	42.48	
Maximum Radial Load	F_{2AMax}	N	1020								
		lb _f	229.30								
Maximum Axial Load	F_{2OMax}	N	570								
		lb _f	128.14								
Max. Tilting Moment	M_{2OMax}	Nm	200								
		in.lb	1770.14								
Mass Moment of Inertia	j_1	kgcm ²	0.500	0.440	0.700	0.390	0.390	0.390	0.390	0.390	
Operating Noise Level	L_{PA}	dB(A)	< 60								
Efficiency at Full loading	η	%	93								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	4.8								
		lb _m	10.58								

SPLN Series Servo Planetary Gearbox

SPLN Series Servo Planetary Gearbox

SPLN090 2-stages

		2-stages									
Ratio	i		12	15	16	20	25	32	40	64	
Nominal Output Torque		Nm	100	100	110	110	110	110	110	95	
		in.lb	885	885	974	974	974	974	974	841	
Emergency Stop Torque	T_{2Max}	Nm	200	200	220	220	220	220	220	190	
		in.lb	1770	1770	1947	1947	1947	1947	1947	1682	
Maximum Acceleration Torque	T_{2a}	Nm	180	180	198	198	198	198	198	171	
		in.lb	1593	1593	1752	1752	1752	1752	1752	1513	
Maximum Torque	T_{2a}	Nm	200	200	220	220	220	220	220	190	
		in.lb	1770	1770	1947	1947	1947	1947	1947	1682	
Permitted Average Input Speed	n_{1M}	rpm	3000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	0.36	0.31	0.36	0.31	0.31	0.25	0.25	0.25	
		in.lb	3.19	2.74	3.19	2.74	2.74	2.21	2.21	2.21	
Maximum Torsional Backlash	j_i	arcmin	≤ 10								
Torsional Rigidity	C_{21}	Nm/arcmin	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	
		in.lb/arcmin	42.48	42.48	42.48	42.48	42.48	42.48	42.48	42.48	
Maximum Radial Load	F_{2AMax}	N	1020								
		lb _f	229.30								
Maximum Axial Load	F_{2OMax}	N	570								
		lb _f	128.14								
Max. Tilting Moment	M_{2OMax}	Nm	200								
		in.lb	1770.14								
Mass Moment of Inertia	j_1	kgcm ²	0.670	0.510	0.500	0.440	0.440	0.390	0.390	0.390	
Operating Noise Level	L_{PA}	dB(A)	< 60								
Efficiency at Full loading	η	%	95								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	3.6								
		lb _m	7.94								

SPLN090 3-stages

		3-stages									
Ratio	i		80	100	125	160	200	256	320	512	
Nominal Output Torque		Nm	120	120	120	120	120	120	120	120	95
		in.lb	1062	1062	1062	1062	1062	1062	1062	1062	841
Emergency Stop Torque	T_{2Max}	Nm	240	240	240	240	240	240	240	240	190
		in.lb	2124	2124	2124	2124	2124	2124	2124	2124	1682
Maximum Acceleration Torque	T_{2a}	Nm	216	216	216	216	216	216	216	216	171
		in.lb	1912	1912	1912	1912	1912	1912	1912	1912	1513
Maximum Torque	T_{2a}	Nm	240	240	240	240	240	240	240	240	190
		in.lb	2124	2124	2124	2124	2124	2124	2124	2124	1682
Permitted Average Input Speed	n_{1M}	rpm	3000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	0.31	0.31	0.31	0.25	0.25	0.25	0.25	0.25	
		in.lb	2.74	2.74	2.74	2.21	2.21	2.21	2.21	2.21	
Maximum Torsional Backlash	j_i	arcmin	≤ 12								
Torsional Rigidity	C_{21}	Nm/arcmin	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	
		in.lb/arcmin	42.48	42.48	42.48	42.48	42.48	42.48	42.48	42.48	
Maximum Radial Load	F_{2AMax}	N	1020								
		lb _f	229.30								
Maximum Axial Load	F_{2OMax}	N	570								
		lb _f	128.14								
Max. Tilting Moment	M_{2OMax}	Nm	200								
		in.lb	1770.14								
Mass Moment of Inertia	j_1	kgcm ²	0.500	0.440	0.700	0.390	0.390	0.390	0.390	0.390	
Operating Noise Level	L_{PA}	dB(A)	< 60								
Efficiency at Full loading	η	%	93								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	4.8								
		lb _m	10.58								

SPLN120 1-stage

		1-stage									
Ratio	i		3	4	5	6	7	8	9	10	
Nominal Output Torque		Nm	190	240	245	240	235	210	200	196	
		in.lb	1682	2124	2168	2124	2080	1859	1770	1735	
Emergency Stop Torque	T_{2Max}	Nm	380	480	490	480	470	420	400	392	
		in.lb	3363	4248	4337	4248	4160	3717	3540	3469	
Maximum Acceleration Torque	T_{2a}	Nm	342	432	441	432	423	378	360	352.8	
		in.lb	3027	3824	3903	3824	3744	3346	3186	3123	
Maximum Torque	T_{2a}	Nm	380	480	490	480	470	420	400	392	
		in.lb	3363	4248	4337	4248	4160	3717	3540	3469	
Permitted Average Input Speed	n_{1a}	rpm	3000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	1	0.95	0.85	0.81	0.78	0.78	0.78	0.78	
		in.lb	8.85	8.41	7.52	7.17	6.90	6.90	6.90	6.90	
Maximum Torsional Backlash	j_i	arcmin	≤ 8								
Torsional Rigidity	C_{21}	Nm/arcmin	10	10	10	10	10	10	10	10	
		in.lb/arcmin	88.51	88.51	88.51	88.51	88.51	88.51	88.51	88.51	
Maximum Radial Load	F_{2AMax}	N	2070								
		lb _f	465.34								
Maximum Axial Load	F_{2OMax}	N	970								
		lb _f	218.06								
Max. Tilting Moment	M_{2OMax}	Nm	400								
		in.lb	3540.28								
Mass Moment of Inertia	j_1	kgcm ²	2.630	1.790	1.530	1.500	1.400	1.320	1.320	1.320	
Operating Noise Level	L_{Pa}	dB(A)	< 62								
Efficiency at Full loading	η	%	97								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	6								
		lb _m	13.23								

SPLN120 2-stages

		2-stages									
Ratio	i		12	15	16	20	25	32	40	64	
Nominal Output Torque		Nm	210	210	230	230	255	255	250	210	
		in.lb	1859	1859	2036	2036	2257	2257	2213	1859	
Emergency Stop Torque	T_{2Max}	Nm	420	420	460	460	510	510	500	420	
		in.lb	3717	3717	4071	4071	4514	4514	4425	3717	
Maximum Acceleration Torque	T_{2a}	Nm	378	378	414	414	459	459	450	378	
		in.lb	3346	3346	3664	3664	4062	4062	3983	3346	
Maximum Torque	T_{2a}	Nm	420	420	460	460	510	510	500	420	
		in.lb	3717	3717	4071	4071	4514	4514	4425	3717	
Permitted Average Input Speed	n_{1a}	rpm	3000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	0.95	0.85	0.95	0.85	0.85	0.78	0.78	0.78	
		in.lb	8.41	7.52	8.41	7.52	7.52	6.90	6.90	6.90	
Maximum Torsional Backlash	j_i	arcmin	≤ 10								
Torsional Rigidity	C_{21}	Nm/arcmin	10	10	10	10	10	10	10	10	
		in.lb/arcmin	88.51	88.51	88.51	88.51	88.51	88.51	88.51	88.51	
Maximum Radial Load	F_{2AMax}	N	2070								
		lb _f	465.34								
Maximum Axial Load	F_{2OMax}	N	970								
		lb _f	218.06								
Max. Tilting Moment	M_{2OMax}	Nm	400								
		in.lb	3540.28								
Mass Moment of Inertia	j_1	kgcm ²	1.630	1.670	1.750	1.530	1.490	1.320	1.320	1.320	
Operating Noise Level	L_{Pa}	dB(A)	< 62								
Efficiency at Full loading	η	%	95								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	9								
		lb _m	19.84								

SPLN Series Servo Planetary Gearbox

SPLN Series Servo Planetary Gearbox

SPLN120 1-stage

		1-stage									
Ratio	i		3	4	5	6	7	8	9	10	
Nominal Output Torque		Nm	190	240	245	240	235	210	200	196	
		in.lb	1682	2124	2168	2124	2080	1859	1770	1735	
Emergency Stop Torque	T_{2Max}	Nm	380	480	490	480	470	420	400	392	
		in.lb	3363	4248	4337	4248	4160	3717	3540	3469	
Maximum Acceleration Torque	T_{2a}	Nm	342	432	441	432	423	378	360	352.8	
		in.lb	3027	3824	3903	3824	3744	3346	3186	3123	
Maximum Torque	T_{2a}	Nm	380	480	490	480	470	420	400	392	
		in.lb	3363	4248	4337	4248	4160	3717	3540	3469	
Permitted Average Input Speed	n_{1a}	rpm	3000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	1	0.95	0.85	0.81	0.78	0.78	0.78	0.78	
		in.lb	8.85	8.41	7.52	7.17	6.90	6.90	6.90	6.90	
Maximum Torsional Backlash	j_i	arcmin	≤ 8								
Torsional Rigidity	C_{21}	Nm/arcmin	10	10	10	10	10	10	10	10	
		in.lb/arcmin	88.51	88.51	88.51	88.51	88.51	88.51	88.51	88.51	
Maximum Radial Load	F_{2AMax}	N	2070								
		lb _f	465.34								
Maximum Axial Load	F_{2OMax}	N	970								
		lb _f	218.06								
Max. Tilting Moment	M_{2OMax}	Nm	400								
		in.lb	3540.28								
Mass Moment of Inertia	j_1	kgcm ²	2.630	1.790	1.530	1.500	1.400	1.320	1.320	1.320	
Operating Noise Level	L_{PA}	dB(A)	< 62								
Efficiency at Full loading	η	%	97								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	6								
		lb _m	13.23								

SPLN120 2-stages

		2-stages									
Ratio	i		12	15	16	20	25	32	40	64	
Nominal Output Torque		Nm	210	210	230	230	255	255	250	210	
		in.lb	1859	1859	2036	2036	2257	2257	2213	1859	
Emergency Stop Torque	T_{2Max}	Nm	420	420	460	460	510	510	500	420	
		in.lb	3717	3717	4071	4071	4514	4514	4425	3717	
Maximum Acceleration Torque	T_{2a}	Nm	378	378	414	414	459	459	450	378	
		in.lb	3346	3346	3664	3664	4062	4062	3983	3346	
Maximum Torque	T_{2a}	Nm	420	420	460	460	510	510	500	420	
		in.lb	3717	3717	4071	4071	4514	4514	4425	3717	
Permitted Average Input Speed	n_{1a}	rpm	3000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	0.95	0.85	0.95	0.85	0.85	0.78	0.78	0.78	
		in.lb	8.41	7.52	8.41	7.52	7.52	6.90	6.90	6.90	
Maximum Torsional Backlash	j_i	arcmin	≤ 10								
Torsional Rigidity	C_{21}	Nm/arcmin	10	10	10	10	10	10	10	10	
		in.lb/arcmin	88.51	88.51	88.51	88.51	88.51	88.51	88.51	88.51	
Maximum Radial Load	F_{2AMax}	N	2070								
		lb _f	465.34								
Maximum Axial Load	F_{2OMax}	N	970								
		lb _f	218.06								
Max. Tilting Moment	M_{2OMax}	Nm	400								
		in.lb	3540.28								
Mass Moment of Inertia	j_1	kgcm ²	1.630	1.670	1.750	1.530	1.490	1.320	1.320	1.320	
Operating Noise Level	L_{PA}	dB(A)	< 62								
Efficiency at Full loading	η	%	95								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	9								
		lb _m	19.84								

SPLN Series Servo Planetary Gearbox

SPLN Series Servo Planetary Gearbox

SPLN120 3-stages

		3-stages									
Ratio	i		80	100	125	160	200	256	320	512	
Nominal Output Torque		Nm	255	255	255	255	255	255	255	210	
		in.lb	2257	2257	2257	2257	2257	2257	2257	1859	
Emergency Stop Torque	T_{2Max}	Nm	510	510	510	510	510	510	510	420	
		in.lb	4514	4514	4514	4514	4514	4514	4514	3717	
Maximum Acceleration Torque	T_{2a}	Nm	459	459	459	459	459	459	459	378	
		in.lb	4062	4062	4062	4062	4062	4062	4062	3346	
Maximum Torque	T_{2a}	Nm	510	510	510	510	510	510	510	420	
		in.lb	4514	4514	4514	4514	4514	4514	4514	3717	
Permitted Average Input Speed	n_{1N}	rpm	3000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	0.85	0.85	0.85	0.78	0.78	0.78	0.78	0.78	
		in.lb	7.52	7.52	7.52	6.90	6.90	6.90	6.90	6.90	
Maximum Torsional Backlash	j_i	arcmin	≤ 12								
Torsional Rigidity	C_{21}	Nm/arcmin	10	10	10	10	10	10	10	10	
		in.lb/arcmin	88.51	88.51	88.51	88.51	88.51	88.51	88.51	88.51	
Maximum Radial Load	F_{2AMax}	N	2070								
		lb _f	465.34								
Maximum Axial Load	F_{2OMax}	N	970								
		lb _f	218.06								
Max. Tilting Moment	M_{2OMax}	Nm	400								
		in.lb	3540.28								
Mass Moment of Inertia	j_1	kgcm ²	1.530	1.490	2.570	1.300	1.300	1.300	1.300	1.300	
Operating Noise Level	L_{PA}	dB(A)	< 62								
Efficiency at Full loading	η	%	93								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	10.5								
		lb _m	23.15								

SPLN160 1-stage

		1-stage									
Ratio	i		3	4	5	6	7	8	9	10	
Nominal Output Torque		Nm	440	544	585	500	480	450	415	400	
		in.lb	3894	4815	5178	4425	4248	3983	3673	3540	
Emergency Stop Torque	T_{2Max}	Nm	880	1088	1170	1000	960	900	830	800	
		in.lb	7789	9630	10355	8851	8497	7966	7346	7081	
Maximum Acceleration Torque	T_{2a}	Nm	792	979.2	1053	900	864	810	747	720	
		in.lb	7010	8667	9320	7966	7647	7169	6611	6373	
Maximum Torque	T_{2a}	Nm	880	1088	1170	1000	960	900	830	800	
		in.lb	7789	9630	10355	8851	8497	7966	7346	7081	
Permitted Average Input Speed	n_{1N}	rpm	3000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	2.55	2.45	2.3	2.2	2.2	2.2	2.2	2.2	
		in.lb	22.57	21.68	20.36	19.47	19.47	19.47	19.47	19.47	
Maximum Torsional Backlash	j_i	arcmin	≤ 8								
Torsional Rigidity	C_{21}	Nm/arcmin	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	
		in.lb/arcmin	254.02	254.02	254.02	254.02	254.02	254.02	254.02	254.02	
Maximum Radial Load	F_{2AMax}	N	7300								
		lb _f	1641.04								
Maximum Axial Load	F_{2OMax}	N	6400								
		lb _f	1438.72								
Max. Tilting Moment	M_{2OMax}	Nm	850								
		in.lb	7523.10								
Mass Moment of Inertia	j_1	kgcm ²	12.100	7.750	6.000	5.520	5.100	3.740	3.620	3.620	
Operating Noise Level	L_{PA}	dB(A)	< 68								
Efficiency at Full loading	η	%	97								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	14.5								
		lb _m	31.97								

SPLN120 3-stages

		3-stages									
Ratio	i		80	100	125	160	200	256	320	512	
Nominal Output Torque		Nm	255	255	255	255	255	255	255	210	
		in.lb	2257	2257	2257	2257	2257	2257	2257	1859	
Emergency Stop Torque	T_{2Max}	Nm	510	510	510	510	510	510	510	420	
		in.lb	4514	4514	4514	4514	4514	4514	4514	3717	
Maximum Acceleration Torque	T_{2a}	Nm	459	459	459	459	459	459	459	378	
		in.lb	4062	4062	4062	4062	4062	4062	4062	3346	
Maximum Torque	T_{2a}	Nm	510	510	510	510	510	510	510	420	
		in.lb	4514	4514	4514	4514	4514	4514	4514	3717	
Permitted Average Input Speed	n_{1N}	rpm	3000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	0.85	0.85	0.85	0.78	0.78	0.78	0.78	0.78	
		in.lb	7.52	7.52	7.52	6.90	6.90	6.90	6.90	6.90	
Maximum Torsional Backlash	j_i	arcmin	≤ 12								
Torsional Rigidity	C_{21}	Nm/arcmin	10	10	10	10	10	10	10	10	
		in.lb/arcmin	88.51	88.51	88.51	88.51	88.51	88.51	88.51	88.51	
Maximum Radial Load	F_{2AMax}	N	2070								
		lb _f	465.34								
Maximum Axial Load	F_{2OMax}	N	970								
		lb _f	218.06								
Max. Tilting Moment	M_{2OMax}	Nm	400								
		in.lb	3540.28								
Mass Moment of Inertia	j_1	kgcm ²	1.530	1.490	2.570	1.300	1.300	1.300	1.300	1.300	
Operating Noise Level	L_{PA}	dB(A)	< 62								
Efficiency at Full loading	η	%	93								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	10.5								
		lb _m	23.15								

SPLN160 1-stage

		1-stage									
Ratio	i		3	4	5	6	7	8	9	10	
Nominal Output Torque		Nm	440	544	585	500	480	450	415	400	
		in.lb	3894	4815	5178	4425	4248	3983	3673	3540	
Emergency Stop Torque	T_{2Max}	Nm	880	1088	1170	1000	960	900	830	800	
		in.lb	7789	9630	10355	8851	8497	7966	7346	7081	
Maximum Acceleration Torque	T_{2a}	Nm	792	979.2	1053	900	864	810	747	720	
		in.lb	7010	8667	9320	7966	7647	7169	6611	6373	
Maximum Torque	T_{2a}	Nm	880	1088	1170	1000	960	900	830	800	
		in.lb	7789	9630	10355	8851	8497	7966	7346	7081	
Permitted Average Input Speed	n_{1N}	rpm	3000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	2.55	2.45	2.3	2.2	2.2	2.2	2.2	2.2	
		in.lb	22.57	21.68	20.36	19.47	19.47	19.47	19.47	19.47	
Maximum Torsional Backlash	j_i	arcmin	≤ 8								
Torsional Rigidity	C_{21}	Nm/arcmin	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	
		in.lb/arcmin	254.02	254.02	254.02	254.02	254.02	254.02	254.02	254.02	
Maximum Radial Load	F_{2AMax}	N	7300								
		lb _f	1641.04								
Maximum Axial Load	F_{2OMax}	N	6400								
		lb _f	1438.72								
Max. Tilting Moment	M_{2OMax}	Nm	850								
		in.lb	7523.10								
Mass Moment of Inertia	j_1	kgcm ²	12.100	7.750	6.000	5.520	5.100	3.740	3.620	3.620	
Operating Noise Level	L_{PA}	dB(A)	< 68								
Efficiency at Full loading	η	%	97								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	14.5								
		lb _m	31.97								

SPLN160 2-stages

		2-stages									
Ratio	i		12	15	16	20	25	32	40	64	
Nominal Output Torque		Nm	450	450	450	564	608	608	608	450	
		in.lb	3983	3983	3983	4992	5381	5381	5381	3983	
Emergency Stop Torque	T_{2Max}	Nm	900	900	900	1128	1216	1216	1216	900	
		in.lb	7966	7966	7966	9984	10762	10762	10762	7966	
Maximum Acceleration Torque	T_{2a}	Nm	810	810	810	1015.2	1094.4	1094.4	1094.4	810	
		in.lb	7169	7169	7169	8985	9686	9686	9686	7169	
Maximum Torque	T_{2a}	Nm	900	900	900	1128	1216	1216	1216	900	
		in.lb	7966	7966	7966	9984	10762	10762	10762	7966	
Permitted Average Input Speed	n_{1N}	rpm	3000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	2.45	2.3	2.45	2.3	2.3	2.2	2.2	2.2	
		in.lb	21.68	20.36	21.68	20.36	20.36	19.47	19.47	19.47	
Maximum Torsional Backlash	j_i	arcmin	≤ 10								
Torsional Rigidity	C_{21}	Nm/arcmin	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	
		in.lb/arcmin	254.02	254.02	254.02	254.02	254.02	254.02	254.02	254.02	
Maximum Radial Load	F_{2Max}	N	7300								
		lb _f	1641.04								
Maximum Axial Load	F_{20Max}	N	6400								
		lb _f	1438.72								
Max. Tilting Moment	M_{20Max}	Nm	850								
		in.lb	7523.10								
Mass Moment of Inertia	j_1	kgcm ²	10.100	8.100	7.470	6.650	5.810	6.340	5.360	4.080	
Operating Noise Level	L_{PA}	dB(A)	< 68								
Efficiency at Full loading	η	%	95								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	27								
		lb _m	59.52								

SPLN160 3-stages

		3-stages									
Ratio	i		80	100	125	160	200	256	320	512	
Nominal Output Torque		Nm	580	580	580	580	608	608	580	450	
		in.lb	5133	5133	5133	5133	5381	5381	5133	3983	
Emergency Stop Torque	T_{2Max}	Nm	1160	1160	1160	1160	1216	1216	1160	900	
		in.lb	10267	10267	10267	10267	10762	10762	10267	7966	
Maximum Acceleration Torque	T_{2a}	Nm	1044	1044	1044	1044	1094.4	1094.4	1044	810	
		in.lb	9240	9240	9240	9240	9686	9686	9240	7169	
Maximum Torque	T_{2a}	Nm	1160	1160	1160	1160	1216	1216	1160	900	
		in.lb	10267	10267	10267	10267	10762	10762	10267	7966	
Permitted Average Input Speed	n_{1N}	rpm	3000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	
		in.lb	20.36	20.36	20.36	19.47	19.47	19.47	19.47	19.47	
Maximum Torsional Backlash	j_i	arcmin	≤ 12								
Torsional Rigidity	C_{21}	Nm/arcmin	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	
		in.lb/arcmin	88.51	88.51	88.51	88.51	88.51	88.51	88.51	88.51	
Maximum Radial Load	F_{20Max}	N	7300								
		lb _f	1641.04								
Maximum Axial Load	F_{20Max}	N	6400								
		lb _f	1438.72								
Max. Tilting Moment	M_{20Max}	Nm	850								
		in.lb	7523.10								
Mass Moment of Inertia	j_1	kgcm ²	7.400	7.300	7.300	6.500	6.500	6.500	6.500	6.500	
Operating Noise Level	L_{PA}	dB(A)	< 68								
Efficiency at Full loading	η	%	93								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	30								
		lb _m	66.14								

SPLN160 2-stages

		2-stages									
Ratio	i		12	15	16	20	25	32	40	64	
Nominal Output Torque		Nm	450	450	450	564	608	608	608	450	
		in.lb	3983	3983	3983	4992	5381	5381	5381	3983	
Emergency Stop Torque	T_{2Max}	Nm	900	900	900	1128	1216	1216	1216	900	
		in.lb	7966	7966	7966	9984	10762	10762	10762	7966	
Maximum Acceleration Torque	T_{2a}	Nm	810	810	810	1015.2	1094.4	1094.4	1094.4	810	
		in.lb	7169	7169	7169	8985	9686	9686	9686	7169	
Maximum Torque	T_{2a}	Nm	900	900	900	1128	1216	1216	1216	900	
		in.lb	7966	7966	7966	9984	10762	10762	10762	7966	
Permitted Average Input Speed	n_{1N}	rpm	3000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	2.45	2.3	2.45	2.3	2.3	2.2	2.2	2.2	
		in.lb	21.68	20.36	21.68	20.36	20.36	19.47	19.47	19.47	
Maximum Torsional Backlash	j_i	arcmin	≤ 10								
Torsional Rigidity	C_{21}	Nm/arcmin	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	
		in.lb/arcmin	254.02	254.02	254.02	254.02	254.02	254.02	254.02	254.02	
Maximum Radial Load	F_{2Max}	N	7300								
		lb _f	1641.04								
Maximum Axial Load	F_{20Max}	N	6400								
		lb _f	1438.72								
Max. Tilting Moment	M_{20Max}	Nm	850								
		in.lb	7523.10								
Mass Moment of Inertia	j_1	kgcm ²	10.100	8.100	7.470	6.650	5.810	6.340	5.360	4.080	
Operating Noise Level	L_{PA}	dB(A)	< 68								
Efficiency at Full loading	η	%	95								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	27								
		lb _m	59.52								

SPLN160 3-stages

		3-stages									
Ratio	i		80	100	125	160	200	256	320	512	
Nominal Output Torque		Nm	580	580	580	580	608	608	580	450	
		in.lb	5133	5133	5133	5133	5381	5381	5133	3983	
Emergency Stop Torque	T_{2Max}	Nm	1160	1160	1160	1160	1216	1216	1160	900	
		in.lb	10267	10267	10267	10267	10762	10762	10267	7966	
Maximum Acceleration Torque	T_{2a}	Nm	1044	1044	1044	1044	1094.4	1094.4	1044	810	
		in.lb	9240	9240	9240	9240	9686	9686	9240	7169	
Maximum Torque	T_{2a}	Nm	1160	1160	1160	1160	1216	1216	1160	900	
		in.lb	10267	10267	10267	10267	10762	10762	10267	7966	
Permitted Average Input Speed	n_{1N}	rpm	3000								
Maximum Input Speed	n_{1Max}	rpm	6000								
Mean No Load Running Torque	T_{012}	Nm	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	
		in.lb	20.36	20.36	20.36	19.47	19.47	19.47	19.47	19.47	
Maximum Torsional Backlash	j_i	arcmin	≤ 12								
Torsional Rigidity	C_{21}	Nm/arcmin	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	
		in.lb/arcmin	88.51	88.51	88.51	88.51	88.51	88.51	88.51	88.51	
Maximum Radial Load	F_{20Max}	N	7300								
		lb _f	1641.04								
Maximum Axial Load	F_{20Max}	N	6400								
		lb _f	1438.72								
Max. Tilting Moment	M_{20Max}	Nm	850								
		in.lb	7523.10								
Mass Moment of Inertia	j_1	kgcm ²	7.400	7.300	7.300	6.500	6.500	6.500	6.500	6.500	
Operating Noise Level	L_{PA}	dB(A)	< 68								
Efficiency at Full loading	η	%	93								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	30								
		lb _m	66.14								

SPLN205 1-stage

		1-stage									
Ratio	i		3	4	5	6	7	8	9	10	
Nominal Output Torque		Nm	600	1050	1000	800	800	800	710	710	
		in.lb	5310	9293	8851	7081	7081	7081	6284	6284	
Emergency Stop Torque	T_{2Max}	Nm	1200	2100	2000	1600	1600	1600	1420	1420	
		in.lb	10621	18586	17701	14161	14161	14161	12568	12568	
Maximum Acceleration Torque	T_{2a}	Nm	1080	1890	1800	1440	1440	1440	1278	1278	
		in.lb	9559	16728	15931	12745	12745	12745	11311	11311	
Maximum Torque	T_{2a}	Nm	1200	2100	2000	1600	1600	1600	1420	1420	
		in.lb	10621	18586	17701	14161	14161	14161	12568	12568	
Permitted Average Input Speed	n_{1a}	rpm	2000								
Maximum Input Speed	n_{1Max}	rpm	4000								
Mean No Load Running Torque	T_{012}	Nm	3.5	3.3	3.15	3	3	3	3	3	
		in.lb	30.98	29.21	27.88	26.55	26.55	26.55	26.55	26.55	
Maximum Torsional Backlash	j_i	arcmin	≤ 8								
Torsional Rigidity	C_{21}	Nm/arcmin	120	120	120	120	120	120	120	120	
		in.lb/arcmin	1062.08	1062.08	1062.08	1062.08	1062.08	1062.08	1062.08	1062.08	
Maximum Radial Load	F_{2Max}	N	12000								
		lb _f	2697.60								
Maximum Axial Load	F_{20Max}	N	6800								
		lb _f	1528.64								
Max. Tilting Moment	M_{20Max}	Nm	1280								
		in.lb	11328.90								
Mass Moment of Inertia	j_1	kgcm ²	28.980	23.670	22.750	22.480	22.480	22.590	22.590	22.550	
Operating Noise Level	L_{Pa}	dB(A)	< 70								
Efficiency at Full loading	η	%	97								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	30								
		lb _m	66.14								

SPLN205 2-stages

		2-stages									
Ratio	i		12	15	16	20	25	32	40	64	
Nominal Output Torque		Nm	650	650	1050	1000	1000	1050	1000	800	
		in.lb	5753	5753	9293	8851	8851	9293	8851	7081	
Emergency Stop Torque	T_{2Max}	Nm	1300	1300	2100	2000	2000	2100	2000	1600	
		in.lb	11506	11506	18586	17701	17701	18586	17701	14161	
Maximum Acceleration Torque	T_{2a}	Nm	1170	1170	1890	1800	1800	1890	1800	1440	
		in.lb	10355	10355	16728	15931	15931	16728	15931	12745	
Maximum Torque	T_{2a}	Nm	1300	1300	2100	2000	2000	2100	2000	1600	
		in.lb	11506	11506	18586	17701	17701	18586	17701	14161	
Permitted Average Input Speed	n_{1a}	rpm	2000								
Maximum Input Speed	n_{1Max}	rpm	4000								
Mean No Load Running Torque	T_{012}	Nm	2.45	2.3	2.45	2.3	2.3	2.2	2.2	2.2	
		in.lb	21.68	20.36	21.68	20.36	20.36	19.47	19.47	19.47	
Maximum Torsional Backlash	j_i	arcmin	≤ 10								
Torsional Rigidity	C_{21}	Nm/arcmin	120	120	120	120	120	120	120	120	
		in.lb/arcmin	1062.08	1062.08	1062.08	1062.08	1062.08	1062.08	1062.08	1062.08	
Maximum Radial Load	F_{20Max}	N	12000								
		lb _f	2697.60								
Maximum Axial Load	F_{20Max}	N	6800								
		lb _f	1528.64								
Max. Tilting Moment	M_{20Max}	Nm	1280								
		in.lb	11328.90								
Mass Moment of Inertia	j_1	kgcm ²	18.980	16.980	7.540	7.420	7.540	7.140	7.140	7.540	
Operating Noise Level	L_{Pa}	dB(A)	< 70								
Efficiency at Full loading	η	%	95								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	38								
		lb _m	83.77								

SPLN205 1-stage

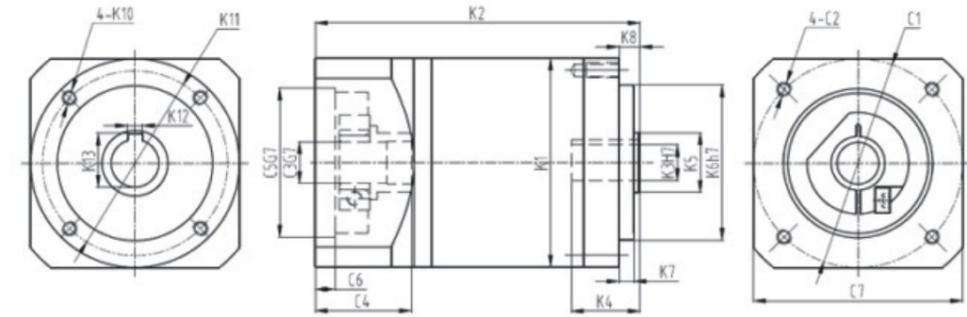
		1-stage									
Ratio	i		3	4	5	6	7	8	9	10	
Nominal Output Torque		Nm	600	1050	1000	800	800	800	710	710	
		in.lb	5310	9293	8851	7081	7081	7081	6284	6284	
Emergency Stop Torque	T_{2Max}	Nm	1200	2100	2000	1600	1600	1600	1420	1420	
		in.lb	10621	18586	17701	14161	14161	14161	12568	12568	
Maximum Acceleration Torque	T_{2a}	Nm	1080	1890	1800	1440	1440	1440	1278	1278	
		in.lb	9559	16728	15931	12745	12745	12745	11311	11311	
Maximum Torque	T_{2a}	Nm	1200	2100	2000	1600	1600	1600	1420	1420	
		in.lb	10621	18586	17701	14161	14161	14161	12568	12568	
Permitted Average Input Speed	n_{1a}	rpm	2000								
Maximum Input Speed	n_{1Max}	rpm	4000								
Mean No Load Running Torque	T_{012}	Nm	3.5	3.3	3.15	3	3	3	3	3	
		in.lb	30.98	29.21	27.88	26.55	26.55	26.55	26.55	26.55	
Maximum Torsional Backlash	j_i	arcmin	≤ 8								
Torsional Rigidity	C_{21}	Nm/arcmin	120	120	120	120	120	120	120	120	
		in.lb/arcmin	1062.08	1062.08	1062.08	1062.08	1062.08	1062.08	1062.08	1062.08	
Maximum Radial Load	F_{2Max}	N	12000								
		lb _f	2697.60								
Maximum Axial Load	F_{2CMax}	N	6800								
		lb _f	1528.64								
Max. Tilting Moment	M_{2CMax}	Nm	1280								
		in.lb	11328.90								
Mass Moment of Inertia	j_1	kgcm ²	28.980	23.670	22.750	22.480	22.480	22.590	22.590	22.550	
Operating Noise Level	L_{PA}	dB(A)	< 70								
Efficiency at Full loading	η	%	97								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	30								
		lb _m	66.14								

SPLN205 2-stages

		2-stages									
Ratio	i		12	15	16	20	25	32	40	64	
Nominal Output Torque		Nm	650	650	1050	1000	1000	1050	1000	800	
		in.lb	5753	5753	9293	8851	8851	9293	8851	7081	
Emergency Stop Torque	T_{2Max}	Nm	1300	1300	2100	2000	2000	2100	2000	1600	
		in.lb	11506	11506	18586	17701	17701	18586	17701	14161	
Maximum Acceleration Torque	T_{2a}	Nm	1170	1170	1890	1800	1800	1890	1800	1440	
		in.lb	10355	10355	16728	15931	15931	16728	15931	12745	
Maximum Torque	T_{2a}	Nm	1300	1300	2100	2000	2000	2100	2000	1600	
		in.lb	11506	11506	18586	17701	17701	18586	17701	14161	
Permitted Average Input Speed	n_{1a}	rpm	2000								
Maximum Input Speed	n_{1Max}	rpm	4000								
Mean No Load Running Torque	T_{012}	Nm	2.45	2.3	2.45	2.3	2.3	2.2	2.2	2.2	
		in.lb	21.68	20.36	21.68	20.36	20.36	19.47	19.47	19.47	
Maximum Torsional Backlash	j_i	arcmin	≤ 10								
Torsional Rigidity	C_{21}	Nm/arcmin	120	120	120	120	120	120	120	120	
		in.lb/arcmin	1062.08	1062.08	1062.08	1062.08	1062.08	1062.08	1062.08	1062.08	
Maximum Radial Load	F_{2Max}	N	12000								
		lb _f	2697.60								
Maximum Axial Load	F_{2CMax}	N	6800								
		lb _f	1528.64								
Max. Tilting Moment	M_{2CMax}	Nm	1280								
		in.lb	11328.90								
Mass Moment of Inertia	j_1	kgcm ²	18.980	16.980	7.540	7.420	7.540	7.140	7.140	7.540	
Operating Noise Level	L_{PA}	dB(A)	< 70								
Efficiency at Full loading	η	%	95								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	38								
		lb _m	83.77								

SPLN205 3-stages

		3-stages									
Ratio	i		80	100	125	160	200	256	320	512	
Nominal Output Torque		Nm	1000	1000	1000	1000	1000	1000	1000	800	
		in.lb	8851	8851	8851	8851	8851	8851	8851	7081	
Emergency Stop Torque	T_{2Max}	Nm	2000	2000	2000	2000	2000	2000	2000	1600	
		in.lb	17701	17701	17701	17701	17701	17701	17701	14161	
Maximum Acceleration Torque	T_{2a}	Nm	1800	1800	1800	1800	1800	1800	1800	1440	
		in.lb	15931	15931	15931	15931	15931	15931	15931	12745	
Maximum Torque	T_{2a}	Nm	2000	2000	2000	2000	2000	2000	2000	1600	
		in.lb	17701	17701	17701	17701	17701	17701	17701	14161	
Permitted Average Input Speed	n_{1M}	rpm	2000								
Maximum Input Speed	n_{1Max}	rpm	4000								
Mean No Load Running Torque	T_{012}	Nm	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	
		in.lb	20.36	20.36	20.36	19.47	19.47	19.47	19.47	19.47	
Maximum Torsional Backlash	j_i	arcmin	≤ 12								
Torsional Rigidity	C_{21}	Nm/arcmin	120	120	120	120	120	120	120	120	
		in.lb/arcmin	1062.08	1062.08	1062.08	1062.08	1062.08	1062.08	1062.08	1062.08	
Maximum Radial Load	F_{2AMax}	N	12000								
		lb _f	2697.60								
Maximum Axial Load	F_{2CMMax}	N	6800								
		lb _f	1528.64								
Max. Tilting Moment	M_{2AMax}	Nm	1280								
		in.lb	11328.90								
Mass Moment of Inertia	j_1	kgcm ²	7.540	7.420	7.420	7.140	7.140	7.140	7.140	7.14	
Operating Noise Level	L_{PA}	dB(A)	< 70								
Efficiency at Full loading	η	%	93								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	47								
		lb _m	103.62								

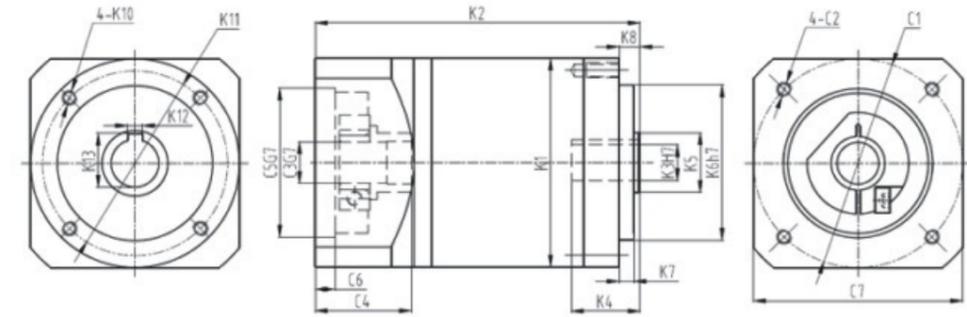


Model	SPLN070			SPLN090			SPLN120			SPLN160			SPLN205				
Stage	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3		
K1	φ70			φ89			φ115.5			φ160			φ205				
	φ2.76			φ3.5			φ4.55			φ6.30			φ8.07				
K2	92	115.7	139.4	113	144.3	175.6	148.5	183.5	218.5	195.5	256.5	276	208	268	327		
	3.62	4.56	5.49	4.45	5.68	6.91	5.85	7.22	8.6	7.70	10.10	10.87	8.19	10.55	12.87		
K3	φ12			φ16			φ20			φ38			M2XZ24XP30XH6				
	φ0.47			φ0.63			φ0.79			φ1.50							
K4	23			25			36			45			48				
	0.91			0.99			1.42			1.77			1.89				
K5	φ20			φ30			φ35			φ60			φ60				
	φ0.79			φ1.18			φ1.38			φ2.36			φ2.36				
K6	φ40			φ60			φ80			φ130			φ160				
	φ1.57			φ2.36			φ3.15			φ5.12			φ6.30				
K7	3			3			4			5			15				
	0.12			0.12			0.16			0.2			0.59				
K8	5			4			5			7			20				
	0.20			0.16			0.20			0.28			0.79				
K10	M5X12			M6X10			M10X20			M12X20			M12X22				
K11	φ52			φ70			φ100			φ145			φ184				
	φ2.05			φ2.76			φ3.94			φ5.71			φ7.24				
K12	4			5			6			10			GB/T3478.1				
	0.16			0.20			0.24			0.39							
K13	13.8			18.3			28.3			41.3			GB/T3478.1				
	0.54			0.72			1.11			1.63							
C1	φ70			φ90			φ145			φ200		φ145		φ215		φ200	
	φ2.76			φ3.54			φ5.71			φ7.87		φ5.71		φ8.46		φ7.87	
C2	M5X12			M6X15			M8X20			M12X25		M8X20		M12X25		M12X25	
C3	φ14			φ19			φ24			φ35		φ24		φ42		φ35	
	φ0.55			φ0.75			φ0.94			φ1.38		φ0.94		φ1.65		φ1.38	
C4	32.1			41.6			56.3			82		61.3		82.5		82	
	1.26			1.64			2.22			3.23		2.41		3.25		3.23	
C5	φ50			φ70			φ110			φ114.3		φ110		φ180		φ114.3	
	φ1.97			φ2.76			φ4.33			φ4.5		φ4.33		φ7.09		φ4.5	
C6	6.5			6.5			8			8		8		8		8	
	0.26			0.26			0.31			0.31		0.31		0.31		0.31	
C7	70			89			120			175		120		190		175	
	2.76			3.5			4.72			6.89		4.72		7.48		6.89	

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SPLN205 3-stages

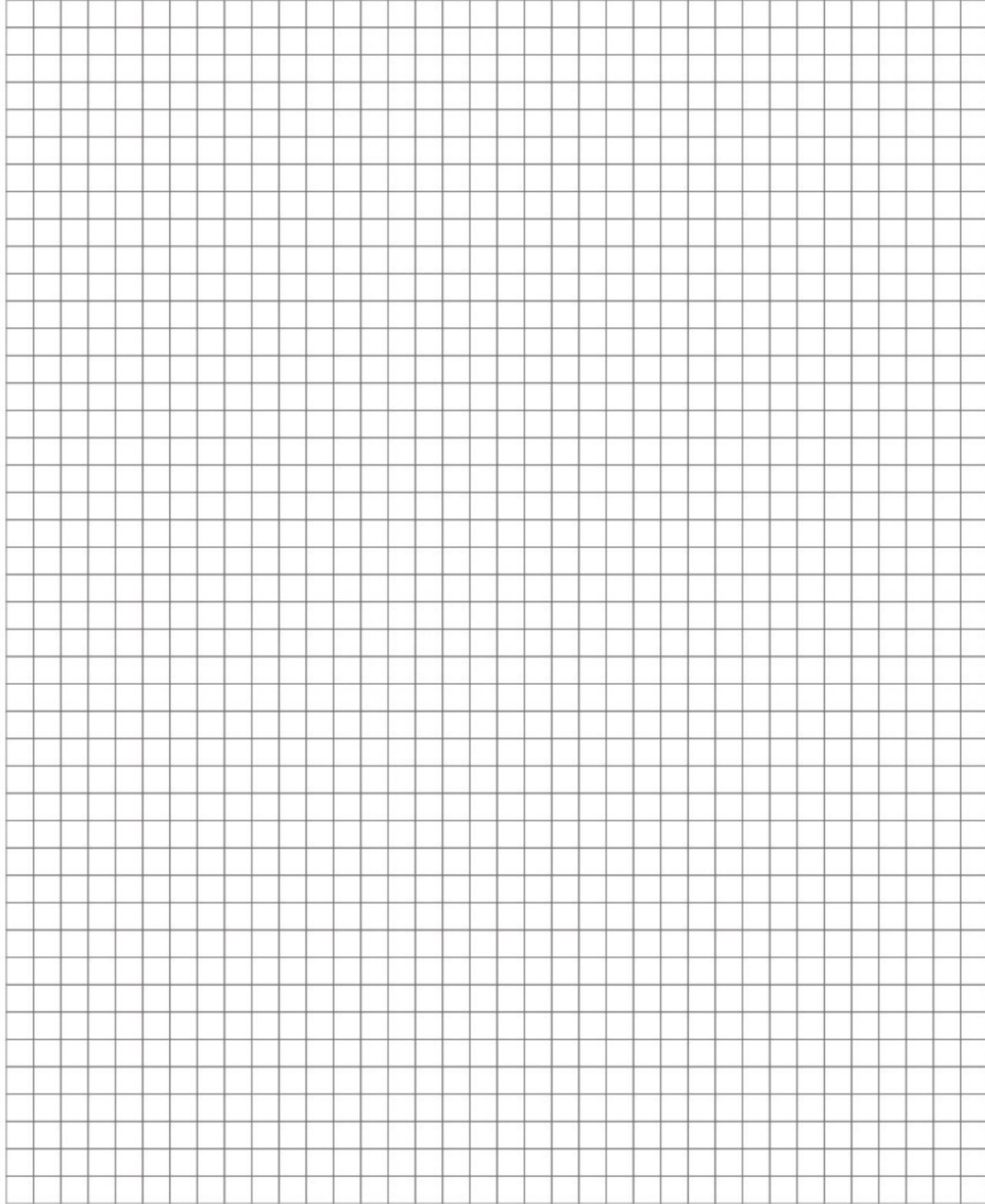
		3-stages									
Ratio	i		80	100	125	160	200	256	320	512	
Nominal Output Torque		Nm	1000	1000	1000	1000	1000	1000	1000	800	
		in.lb	8851	8851	8851	8851	8851	8851	8851	7081	
Emergency Stop Torque	T_{2Max}	Nm	2000	2000	2000	2000	2000	2000	2000	1600	
		in.lb	17701	17701	17701	17701	17701	17701	17701	14161	
Maximum Acceleration Torque	T_{2a}	Nm	1800	1800	1800	1800	1800	1800	1800	1440	
		in.lb	15931	15931	15931	15931	15931	15931	15931	12745	
Maximum Torque	T_{2a}	Nm	2000	2000	2000	2000	2000	2000	2000	1600	
		in.lb	17701	17701	17701	17701	17701	17701	17701	14161	
Permitted Average Input Speed	n_{1M}	rpm	2000								
Maximum Input Speed	n_{1Max}	rpm	4000								
Mean No Load Running Torque	T_{012}	Nm	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	
		in.lb	20.36	20.36	20.36	19.47	19.47	19.47	19.47	19.47	
Maximum Torsional Backlash	j_i	arcmin	≤ 12								
Torsional Rigidity	C_{21}	Nm/arcmin	120	120	120	120	120	120	120	120	
		in.lb/arcmin	1062.08	1062.08	1062.08	1062.08	1062.08	1062.08	1062.08	1062.08	
Maximum Radial Load	F_{2AMax}	N	12000								
		lb _f	2697.60								
Maximum Axial Load	F_{2CMMax}	N	6800								
		lb _f	1528.64								
Max. Tilting Moment	M_{2AMax}	Nm	1280								
		in.lb	11328.90								
Mass Moment of Inertia	j_i	kgcm ²	7.540	7.420	7.420	7.140	7.140	7.140	7.140	7.14	
Operating Noise Level	L_{PA}	dB(A)	< 70								
Efficiency at Full loading	η	%	93								
Operating Temperature		°C	- 25 to +90								
		F	-13 to +194								
Lubrication			Synthetic Lubrication Grease								
Mouting Position			Any Directions								
Protection Class			IP 65								
Service lifetime	L_h	h	20,000(Continuous Operation)								
Weight	m	kg	47								
		lb _m	103.62								



Model	SPLN070			SPLN090			SPLN120			SPLN160			SPLN205				
Stage	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3		
K1	φ70			φ89			φ115.5			φ160			φ205				
	φ2.76			φ3.5			φ4.55			φ6.30			φ8.07				
K2	92	115.7	139.4	113	144.3	175.6	148.5	183.5	218.5	195.5	256.5	276	208	268	327		
	3.62	4.56	5.49	4.45	5.68	6.91	5.85	7.22	8.6	7.70	10.10	10.87	8.19	10.55	12.87		
K3	φ12			φ16			φ20			φ38			M2XZ24XP30XH6				
	φ0.47			φ0.63			φ0.79			φ1.50							
K4	23			25			36			45			48				
	0.91			0.99			1.42			1.77			1.89				
K5	φ20			φ30			φ35			φ60			φ60				
	φ0.79			φ1.18			φ1.38			φ2.36			φ2.36				
K6	φ40			φ60			φ80			φ130			φ160				
	φ1.57			φ2.36			φ3.15			φ5.12			φ6.30				
K7	3			3			4			5			15				
	0.12			0.12			0.16			0.2			0.59				
K8	5			4			5			7			20				
	0.20			0.16			0.20			0.28			0.79				
K10	M5X12			M6X10			M10X20			M12X20			M12X22				
	φ52			φ70			φ100			φ145			φ184				
K11	φ2.05			φ2.76			φ3.94			φ5.71			φ7.24				
	4			5			6			10			GB/T3478.1				
K12	0.16			0.20			0.24			0.39							
	13.8			18.3			28.3			41.3			GB/T3478.1				
K13	0.54			0.72			1.11			1.63							
	φ70			φ90			φ145			φ200		φ145		φ215		φ200	
C1	φ2.76			φ3.54			φ5.71			φ7.87		φ5.71		φ8.46		φ7.87	
	M5X12			M6X15			M8X20			M12X25		M8X20		M12X25		M12X25	
C3	φ14			φ19			φ24			φ35		φ24		φ42		φ35	
	φ0.55			φ0.75			φ0.94			φ1.38		φ0.94		φ1.65		φ1.38	
C4	32.1			41.6			56.3			82		61.3		82.5		82	
	1.26			1.64			2.22			3.23		2.41		3.25		3.23	
C5	φ50			φ70			φ110			φ114.3		φ110		φ180		φ114.3	
	φ1.97			φ2.76			φ4.33			φ4.5		φ4.33		φ7.09		φ4.5	
C6	6.5			6.5			8			8		8		8		8	
	0.26			0.26			0.31			0.31		0.31		0.31		0.31	
C7	70			89			120			175		120		190		175	
	2.76			3.5			4.72			6.89		4.72		7.48		6.89	

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