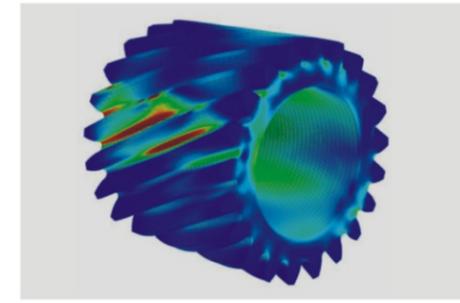




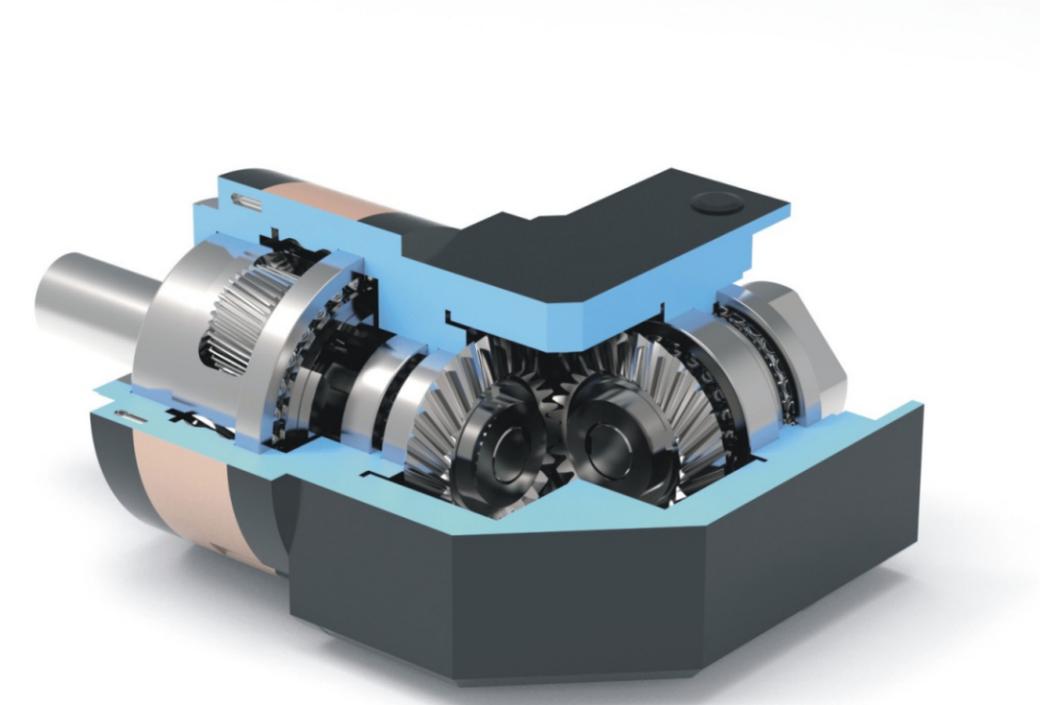
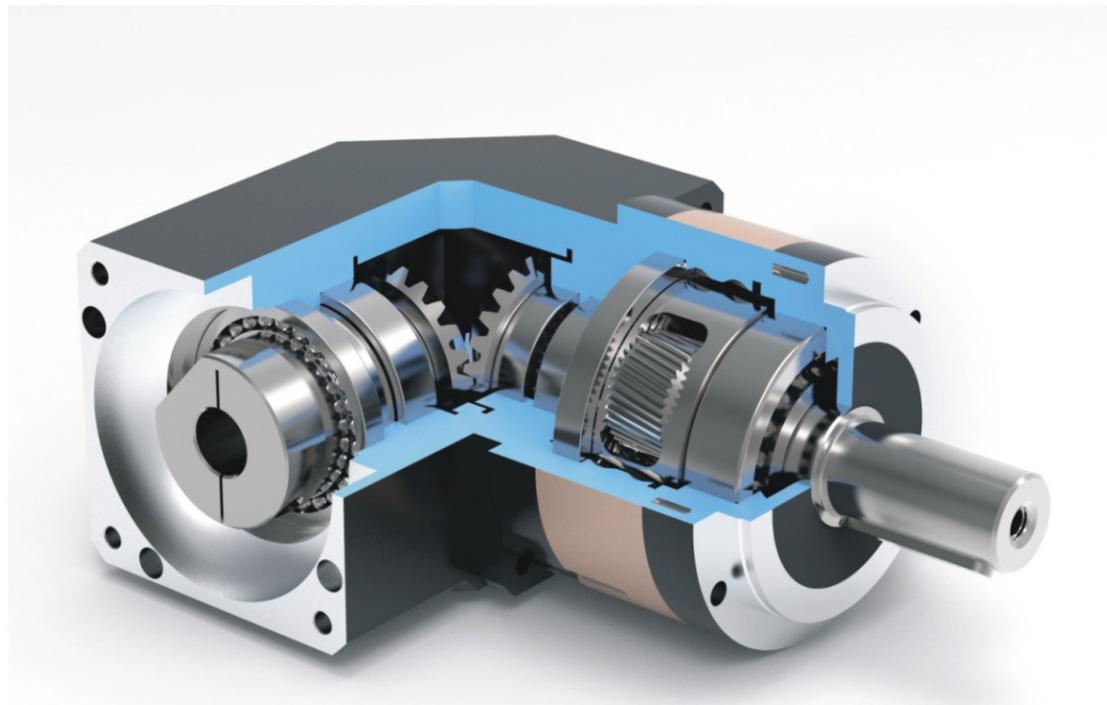
Helical Gear System Technology

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.



Super 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.



Master CageSpindle Planetary Carrier

The patented Master CageSpindle integrated planetary carrier support planetary gearbox to increase construction strength running stability and rigidity significantly. 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.

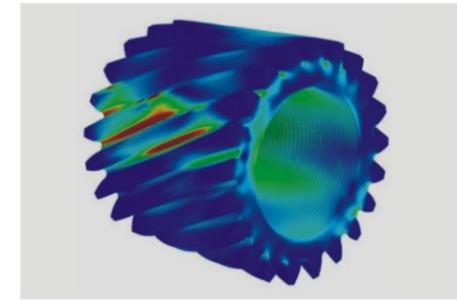
KVE Series Servo Planetary Gearbox

KVE Series Servo Planetary Gearbox



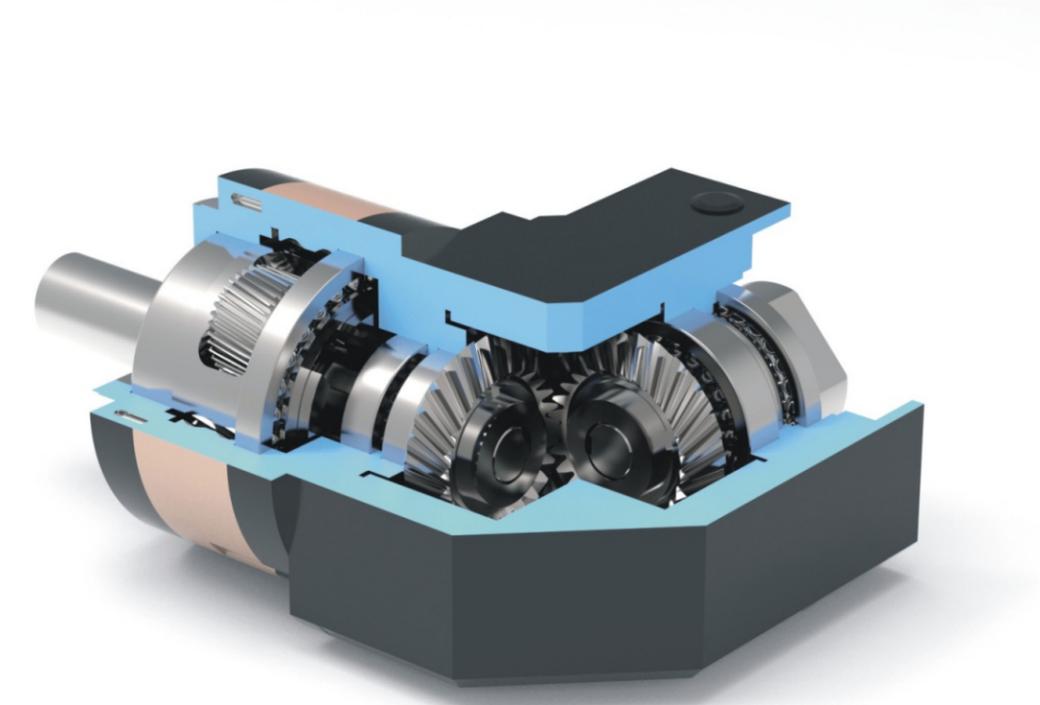
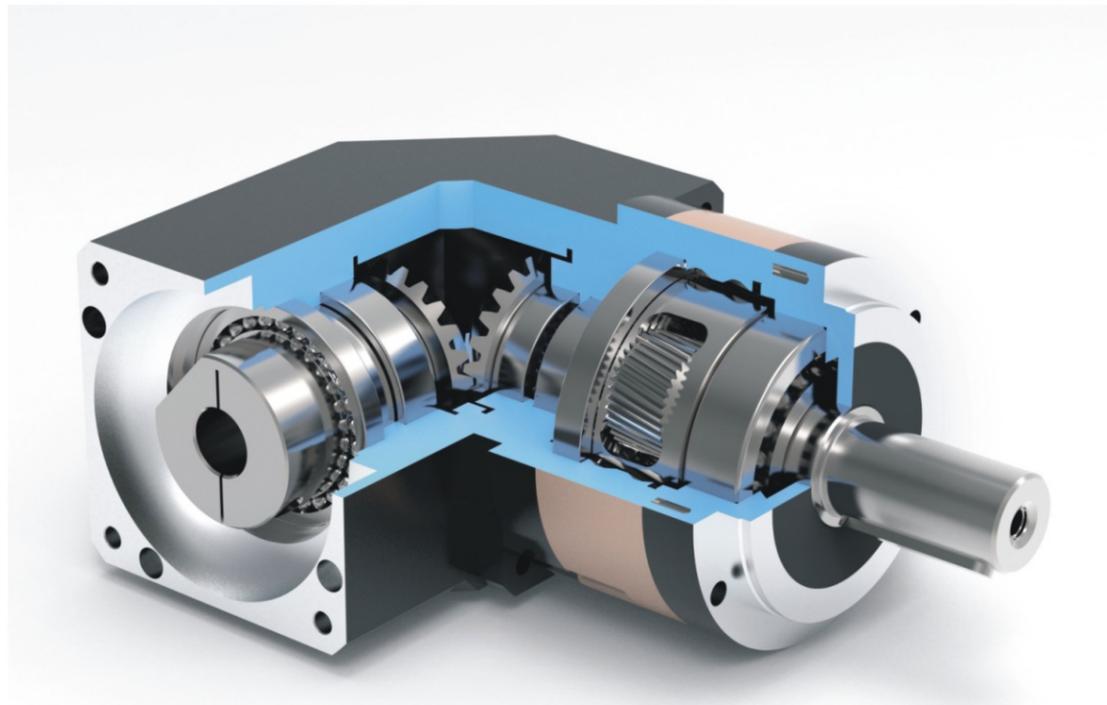
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KVE Series Servo Planetary Gearbox

KVE Series Servo Planetary Gearbox

KVE070 1-stage

		1-stage									
Ratio	i		3	4	5	6	7	8	9	10	
Nominal Output Torque		Nm	46	52	55	50	50	45	42	42	
		in.lb	407	460	487	443	443	398	372	372	
Emergency Stop Torque	T_{2Not}	Nm	138	156	165	150	150	135	126	126	
		in.lb	1221	1381	1460	1328	1328	1195	1115	1115	
Maximum Acceleration Torque	T_{2B}	Nm	82.8	93.6	99	90	90	81	75.6	75.6	
		in.lb	733	828	876	797	797	717	669	669	
Maximum Torque	T_{2a}	Nm	92	104	110	100	100	90	84	84	
		in.lb	814	920	974	885	885	797	743	743	
Permitted Average Input Speed	n_{1N}	rpm	3000								
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_{121}	Nm/arcmin	6.5-7								
		in.lb/arcmin	57.53-61.95								
Maximum Radial Load	F_{2AMax}	N	1500								
		lb _r	337								
Maximum Axial Load	F_{2OMax}	N	760								
		lb _r	171								
Max. Tilting Moment	M_{2KMax}	Nm	28								
		in.lb	247.82								
Mass Moment of Inertia	j_1	kgcm ²	0.16	0.14	0.13	0.13	0.13	0.13	0.13	0.13	
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	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)								
Weight	m	kg	1.4								
		lb _m	3.1								

KVE070 2-stage

		2-stage																	
Ratio	i		12	15	16	20	25	30	32	35	40	45	50	60	64	80	90	100	
Nominal Output Torque		Nm	56	50	52	55	55	46	52	55	55	55	55	50	45	45	42	42	
		in.lb	496	443	460	487	487	407	460	487	487	487	487	443	398	398	372	372	
Emergency Stop Torque	T_{2Not}	Nm	168	150	156	165	165	138	156	165	165	165	165	150	135	135	126	126	
		in.lb	1487	1328	1381	1460	1460	1221	1381	1460	1460	1460	1460	1328	1195	1195	1115	1115	
Maximum Acceleration Torque	T_{2B}	Nm	100.8	90	93.6	99	99	82.8	93.6	99	99	99	99	90	81	81	75.6	75.6	
		in.lb	892	797	828	876	876	733	828	876	876	876	876	797	717	717	669	669	
Maximum Torque	T_{2a}	Nm	112	100	104	110	110	92	104	110	110	110	110	100	90	90	84	84	
		in.lb	991	885	920	974	974	814	920	974	974	974	974	885	797	797	743	743	
Permitted Average Input Speed	n_{1N}	rpm	3000																
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	0.2	0.15	0.15	0.15	0.15	0.17	0.15	0.15	0.15	0.15	
		in.lb	1.77	1.50	1.77	1.50	1.50	1.33	1.77	1.33	1.33	1.33	1.33	1.50	1.33	1.33	1.33	1.33	
Maximum Torsional Backlash	j_i	arcmin	≤10																
Torsional Rigidity	C_{121}	Nm/arcmin	6.6-7																
		in.lb/arcmin	58.41-61.95																
Maximum Radial Load	F_{2AMax}	N	1500																
		lb _r	337																
Maximum Axial Load	F_{2OMax}	N	760																
		lb _r	171																
Max. Tilting Moment	M_{2KMax}	Nm	28																
		in.lb	247.82																
Mass Moment of Inertia	j_1	kgcm ²	0.127	0.124	0.12	0.075	0.075	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.075	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	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)																
Weight	m	kg	1.6																
		lb _m	3.5																

KVE070 1-stage

		1-stage									
Ratio	i		3	4	5	6	7	8	9	10	
Nominal Output Torque		Nm	46	52	55	50	50	45	42	42	
		in.lb	407	460	487	443	443	398	372	372	
Emergency Stop Torque	T_{2Not}	Nm	138	156	165	150	150	135	126	126	
		in.lb	1221	1381	1460	1328	1328	1195	1115	1115	
Maximum Acceleration Torque	T_{2B}	Nm	82.8	93.6	99	90	90	81	75.6	75.6	
		in.lb	733	828	876	797	797	717	669	669	
Maximum Torque	T_{2a}	Nm	92	104	110	100	100	90	84	84	
		in.lb	814	920	974	885	885	797	743	743	
Permitted Average Input Speed	n_{1N}	rpm	3000								
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_{121}	Nm/arcmin	6.5-7								
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Maximum Radial Load	F_{2AMax}	N	1500								
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Max. Tilting Moment	M_{2KMax}	Nm	28								
		in.lb	247.82								
Mass Moment of Inertia	j_1	kgcm ²	0.16	0.14	0.13	0.13	0.13	0.13	0.13	0.13	
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	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)								
Weight	m	kg	1.4								
		lb _m	3.1								

KVE070 2-stage

		2-stage																	
Ratio	i		12	15	16	20	25	30	32	35	40	45	50	60	64	80	90	100	
Nominal Output Torque		Nm	56	50	52	55	55	46	52	55	55	55	55	50	45	45	42	42	
		in.lb	496	443	460	487	487	407	460	487	487	487	487	443	398	398	372	372	
Emergency Stop Torque	T_{2Not}	Nm	168	150	156	165	165	138	156	165	165	165	165	150	135	135	126	126	
		in.lb	1487	1328	1381	1460	1460	1221	1381	1460	1460	1460	1460	1328	1195	1195	1115	1115	
Maximum Acceleration Torque	T_{2B}	Nm	100.8	90	93.6	99	99	82.8	93.6	99	99	99	99	90	81	81	75.6	75.6	
		in.lb	892	797	828	876	876	733	828	876	876	876	876	797	717	717	669	669	
Maximum Torque	T_{2a}	Nm	112	100	104	110	110	92	104	110	110	110	110	100	90	90	84	84	
		in.lb	991	885	920	974	974	814	920	974	974	974	974	885	797	797	743	743	
Permitted Average Input Speed	n_{1N}	rpm	3000																
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	0.2	0.15	0.15	0.15	0.15	0.17	0.15	0.15	0.15	0.15	
		in.lb	1.77	1.50	1.77	1.50	1.50	1.33	1.77	1.33	1.33	1.33	1.33	1.50	1.33	1.33	1.33	1.33	
Maximum Torsional Backlash	j_i	arcmin	≤10																
Torsional Rigidity	C_{121}	Nm/arcmin	6.6-7																
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Max. Tilting Moment	M_{2KMax}	Nm	28																
		in.lb	247.82																
Mass Moment of Inertia	j_1	kgcm ²	0.127	0.124	0.12	0.075	0.075	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.075	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	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)																
Weight	m	kg	1.6																
		lb _m	3.5																

KVE090 1-stage

		1-stage									
Ratio	i		3	4	5	6	7	8	9	10	
Nominal Output Torque		Nm	125	145	155	145	135	115	105	105	
		in.lb	1106	1283	1372	1283	1195	1018	929	929	
Emergency Stop Torque	T_{2Not}	Nm	375	435	465	435	405	345	315	315	
		in.lb	3319	3850	4116	3850	3585	3053	2788	2788	
Maximum Acceleration Torque	T_{2B}	Nm	225	261	279	261	243	207	189	189	
		in.lb	1991	2310	2469	2310	2151	1832	1673	1673	
Maximum Torque	T_{2a}	Nm	250	290	310	290	270	230	210	210	
		in.lb	2213	2567	2744	2567	2390	2036	1859	1859	
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_{121}	Nm/arcmin	12-14								
		in.lb/arcmin	106.21-123.91								
Maximum Radial Load	F_{2AMax}	N	3200								
		lb _r	719								
Maximum Axial Load	F_{2OMax}	N	1600								
		lb _r	360								
Max. Tilting Moment	M_{2KMax}	Nm	142								
		in.lb	1256.8								
Mass Moment of Inertia	j_1	kgcm ²	0.61	0.48	0.47	0.47	0.47	0.45	0.44	0.44	
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	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)								
Weight	m	kg	3.3								
		lb _m	7.3								

KVE090 2-stage

		2-stage																	
Ratio	i		12	15	16	20	25	30	32	35	40	45	50	60	64	80	90	100	
Nominal Output Torque		Nm	125	125	145	145	155	125	145	155	155	155	155	145	115	115	105	105	
		in.lb	1106	1106	1283	1283	1372	1106	1283	1372	1372	1372	1372	1283	1018	1018	929	929	
Emergency Stop Torque	T_{2Not}	Nm	375	375	435	435	465	375	435	465	465	465	465	435	345	345	315	315	
		in.lb	3319	3319	3850	3850	4116	3319	3850	4116	4116	4116	4116	3850	3053	3053	2788	2788	
Maximum Acceleration Torque	T_{2B}	Nm	225	225	261	261	279	225	261	279	279	279	279	261	207	207	189	189	
		in.lb	1991	1991	2310	2310	2469	1991	2310	2469	2469	2469	2469	2310	1832	1832	1673	1673	
Maximum Torque	T_{2a}	Nm	250	250	290	290	310	250	290	310	310	310	310	290	230	230	210	210	
		in.lb	2213	2213	2567	2567	2744	2213	2567	2744	2744	2744	2744	2567	2036	2036	1859	1859	
Permitted Average Input Speed	n_{1N}	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	0.31	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	
		in.lb	3.19	2.74	3.19	2.74	2.74	2.74	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	
Maximum Torsional Backlash	j_i	arcmin	≤10																
Torsional Rigidity	C_{121}	Nm/arcmin	13-14																
		in.lb/arcmin	115.06-123.10																
Maximum Radial Load	F_{2AMax}	N	3200																
		lb _r	719																
Maximum Axial Load	F_{2OMax}	N	1600																
		lb _r	360																
Max. Tilting Moment	M_{2KMax}	Nm	142																
		in.lb	1256.8																
Mass Moment of Inertia	j_1	kgcm ²	0.44	0.44	0.43	0.44	0.44	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39		
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	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)																
Weight	m	kg	4.5																
		lb _m	9.9																

KVE090 1-stage

		1-stage									
Ratio	i		3	4	5	6	7	8	9	10	
Nominal Output Torque		Nm	125	145	155	145	135	115	105	105	
		in.lb	1106	1283	1372	1283	1195	1018	929	929	
Emergency Stop Torque	T_{2Not}	Nm	375	435	465	435	405	345	315	315	
		in.lb	3319	3850	4116	3850	3585	3053	2788	2788	
Maximum Acceleration Torque	T_{2B}	Nm	225	261	279	261	243	207	189	189	
		in.lb	1991	2310	2469	2310	2151	1832	1673	1673	
Maximum Torque	T_{2a}	Nm	250	290	310	290	270	230	210	210	
		in.lb	2213	2567	2744	2567	2390	2036	1859	1859	
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_{121}	Nm/arcmin	12-14								
		in.lb/arcmin	106.21-123.91								
Maximum Radial Load	F_{2AMax}	N	3200								
		lb _r	719								
Maximum Axial Load	F_{2OMax}	N	1600								
		lb _r	360								
Max. Tilting Moment	M_{2KMax}	Nm	142								
		in.lb	1256.8								
Mass Moment of Inertia	j_1	kgcm ²	0.61	0.48	0.47	0.47	0.47	0.45	0.44	0.44	
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	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)								
Weight	m	kg	3.3								
		lb _m	7.3								

KVE090 2-stage

		2-stage																	
Ratio	i		12	15	16	20	25	30	32	35	40	45	50	60	64	80	90	100	
Nominal Output Torque		Nm	125	125	145	145	155	125	145	155	155	155	155	145	115	115	105	105	
		in.lb	1106	1106	1283	1283	1372	1106	1283	1372	1372	1372	1372	1283	1018	1018	929	929	
Emergency Stop Torque	T_{2Not}	Nm	375	375	435	435	465	375	435	465	465	465	465	435	345	345	315	315	
		in.lb	3319	3319	3850	3850	4116	3319	3850	4116	4116	4116	4116	3850	3053	3053	2788	2788	
Maximum Acceleration Torque	T_{2B}	Nm	225	225	261	261	279	225	261	279	279	279	279	261	207	207	189	189	
		in.lb	1991	1991	2310	2310	2469	1991	2310	2469	2469	2469	2469	2310	1832	1832	1673	1673	
Maximum Torque	T_{2a}	Nm	250	250	290	290	310	250	290	310	310	310	310	290	230	230	210	210	
		in.lb	2213	2213	2567	2567	2744	2213	2567	2744	2744	2744	2744	2567	2036	2036	1859	1859	
Permitted Average Input Speed	n_{1N}	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	0.31	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	
		in.lb	3.19	2.74	3.19	2.74	2.74	2.74	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	
Maximum Torsional Backlash	j_i	arcmin	≤10																
Torsional Rigidity	C_{121}	Nm/arcmin	13-14																
		in.lb/arcmin	115.06-123.10																
Maximum Radial Load	F_{2AMax}	N	3200																
		lb _r	719																
Maximum Axial Load	F_{2OMax}	N	1600																
		lb _r	360																
Max. Tilting Moment	M_{2KMax}	Nm	142																
		in.lb	1256.8																
Mass Moment of Inertia	j_1	kgcm ²	0.44	0.44	0.43	0.44	0.44	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39		
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	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)																
Weight	m	kg	4.5																
		lb _m	9.9																

KVE120 1-stage

		1-stage									
Ratio	i		3	4	5	6	7	8	9	10	
Nominal Output Torque		Nm	210	300	320	300	290	255	220	220	
		in.lb	1859	2655	2832	2655	2567	2257	1947	1947	
Emergency Stop Torque	T_{2Not}	Nm	630	900	960	900	870	765	660	660	
		in.lb	5576	7966	8497	7966	7700	6771	5841	5841	
Maximum Acceleration Torque	T_{2B}	Nm	378	540	576	540	522	459	396	396	
		in.lb	3346	4779	5098	4779	4620	4062	3505	3505	
Maximum Torque	T_{2a}	Nm	420	600	640	600	580	510	440	440	
		in.lb	3717	5310	5664	5310	5133	4514	3894	3894	
Permitted Average Input Speed	n_{1N}	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_{121}	Nm/arcmin	22-26								
		in.lb/arcmin	194.72-230.12								
Maximum Radial Load	F_{2AMax}	N	6700								
		lb _r	1506								
Maximum Axial Load	F_{2OMax}	N	3300								
		lb _r	742								
Max. Tilting Moment	M_{2KMax}	Nm	460								
		in.lb	4071.32								
Mass Moment of Inertia	j_1	kgcm ²	3.25	2.74	2.71	2.71	2.62	2.62	2.62	2.57	
Operating Noise Level	L_{PA}	dB(A)	< 68								
Efficiency at Full loading	η	%	96								
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	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)								
Weight	m	kg	12.1								
		lb _m	26.7								

KVE120 2-stage

		2-stage																	
Ratio	i		12	15	16	20	25	30	32	35	40	45	50	60	64	80	90	100	
Nominal Output Torque		Nm	310	310	300	300	320	210	305	320	320	320	320	300	255	255	220	220	
		in.lb	2744	2744	2655	2655	2832	1859	2699	2832	2832	2832	2832	2655	2257	2257	1947	1947	
Emergency Stop Torque	T_{2Not}	Nm	930	930	900	900	960	630	915	960	960	960	960	900	765	765	660	660	
		in.lb	8231	8231	7966	7966	8497	5576	8098	8497	8497	8497	8497	7966	6771	6771	5841	5841	
Maximum Acceleration Torque	T_{2B}	Nm	558	558	540	540	576	378	549	576	576	576	576	540	459	459	396	396	
		in.lb	4939	4939	4779	4779	5098	3346	4859	5098	5098	5098	5098	4779	4062	4062	3505	3505	
Maximum Torque	T_{2a}	Nm	620	620	600	600	640	420	610	640	640	640	640	600	510	510	440	440	
		in.lb	5487	5487	5310	5310	5664	3717	5399	5664	5664	5664	5664	5310	4514	4514	3894	3894	
Permitted Average Input Speed	n_{1N}	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	0.81	0.78	0.78	0.78	0.78	0.78	0.81	0.78	0.78	0.78	0.78	
		in.lb	8.41	7.52	8.41	7.52	7.52	7.17	6.90	6.90	6.90	6.90	6.90	7.17	6.90	6.90	6.90	6.90	
Maximum Torsional Backlash	j_i	arcmin	≤10																
Torsional Rigidity	C_{121}	Nm/arcmin	23-26																
		in.lb/arcmin	203.57-230.12																
Maximum Radial Load	F_{2AMax}	N	6700																
		lb _r	1506																
Maximum Axial Load	F_{2OMax}	N	3300																
		lb _r	742																
Max. Tilting Moment	M_{2KMax}	Nm	460																
		in.lb	4071.32																
Mass Moment of Inertia	j_1	kgcm ²	2.56	2.58	1.75	1.5	1.49	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.5	1.3	1.3	
Operating Noise Level	L_{PA}	dB(A)	< 63																
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	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)																
Weight	m	kg	8																
		lb _m	17.6																

KVE120 1-stage

		1-stage									
Ratio	i		3	4	5	6	7	8	9	10	
Nominal Output Torque		Nm	210	300	320	300	290	255	220	220	
		in.lb	1859	2655	2832	2655	2567	2257	1947	1947	
Emergency Stop Torque	T_{2Not}	Nm	630	900	960	900	870	765	660	660	
		in.lb	5576	7966	8497	7966	7700	6771	5841	5841	
Maximum Acceleration Torque	T_{2B}	Nm	378	540	576	540	522	459	396	396	
		in.lb	3346	4779	5098	4779	4620	4062	3505	3505	
Maximum Torque	T_{2a}	Nm	420	600	640	600	580	510	440	440	
		in.lb	3717	5310	5664	5310	5133	4514	3894	3894	
Permitted Average Input Speed	n_{1N}	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_{121}	Nm/arcmin	22-26								
		in.lb/arcmin	194.72-230.12								
Maximum Radial Load	F_{2AMax}	N	6700								
		lb _r	1506								
Maximum Axial Load	F_{2OMax}	N	3300								
		lb _r	742								
Max. Tilting Moment	M_{2KMax}	Nm	460								
		in.lb	4071.32								
Mass Moment of Inertia	j_1	kgcm ²	3.25	2.74	2.71	2.71	2.62	2.62	2.62	2.57	
Operating Noise Level	L_{PA}	dB(A)	< 68								
Efficiency at Full loading	η	%	96								
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	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)								
Weight	m	kg	12.1								
		lb _m	26.7								

KVE120 2-stage

		2-stage																	
Ratio	i		12	15	16	20	25	30	32	35	40	45	50	60	64	80	90	100	
Nominal Output Torque		Nm	310	310	300	300	320	210	305	320	320	320	320	300	255	255	220	220	
		in.lb	2744	2744	2655	2655	2832	1859	2699	2832	2832	2832	2832	2655	2257	2257	1947	1947	
Emergency Stop Torque	T_{2Not}	Nm	930	930	900	900	960	630	915	960	960	960	960	900	765	765	660	660	
		in.lb	8231	8231	7966	7966	8497	5576	8098	8497	8497	8497	8497	7966	6771	6771	5841	5841	
Maximum Acceleration Torque	T_{2B}	Nm	558	558	540	540	576	378	549	576	576	576	576	540	459	459	396	396	
		in.lb	4939	4939	4779	4779	5098	3346	4859	5098	5098	5098	5098	4779	4062	4062	3505	3505	
Maximum Torque	T_{2a}	Nm	620	620	600	600	640	420	610	640	640	640	640	600	510	510	440	440	
		in.lb	5487	5487	5310	5310	5664	3717	5399	5664	5664	5664	5664	5310	4514	4514	3894	3894	
Permitted Average Input Speed	n_{1N}	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	0.81	0.78	0.78	0.78	0.78	0.78	0.81	0.78	0.78	0.78	0.78	
		in.lb	8.41	7.52	8.41	7.52	7.52	7.17	6.90	6.90	6.90	6.90	6.90	7.17	6.90	6.90	6.90	6.90	
Maximum Torsional Backlash	j_i	arcmin	≤10																
Torsional Rigidity	C_{121}	Nm/arcmin	23-26																
		in.lb/arcmin	203.57-230.12																
Maximum Radial Load	F_{2AMax}	N	6700																
		lb _r	1506																
Maximum Axial Load	F_{2OMax}	N	3300																
		lb _r	742																
Max. Tilting Moment	M_{2KMax}	Nm	460																
		in.lb	4071.32																
Mass Moment of Inertia	j_1	kgcm ²	2.56	2.58	1.75	1.5	1.49	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.5	1.3	1.3	
Operating Noise Level	L_{PA}	dB(A)	< 63																
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	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)																
Weight	m	kg	8																
		lb _m	17.6																

KVE160 1-stage

		1-stage									
Ratio	i		3	4	5	6	7	8	9	10	
Nominal Output Torque		Nm	450	550	650	610	540	510	440	440	
		in.lb	3983	4868	5753	5399	4779	4514	3894	3894	
Emergency Stop Torque	T_{2Not}	Nm	1350	1650	1950	1830	1620	1530	1320	1320	
		in.lb	11948	14604	17259	16197	14338	13542	11683	11683	
Maximum Acceleration Torque	T_{2B}	Nm	810	990	1170	1098	972	918	792	792	
		in.lb	7169	8762	10355	9718	8603	8125	7010	7010	
Maximum Torque	T_{2a}	Nm	900	1100	1300	1220	1080	1020	880	880	
		in.lb	7966	9736	11506	10798	9559	9028	7789	7789	
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_{121}	Nm/arcmin	45-52								
		in.lb/arcmin	398.28-460.24								
Maximum Radial Load	F_{2AMax}	N	9600								
		lb _r	2158								
Maximum Axial Load	F_{2OMax}	N	4800								
		lb _r	1079								
Max. Tilting Moment	M_{2KMax}	Nm	830								
		in.lb	7346.08								
Mass Moment of Inertia	j_1	kgcm ²	12.31	7.54	7.42	7.25	7.25	7.14	7.14	7.14	
Operating Noise Level	L_{PA}	dB(A)	< 65								
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	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)								
Weight	m	kg	20								
		lb _m	44.1								

KVE160 2-stage

		2-stage																	
Ratio	i		12	15	16	20	25	30	32	35	40	45	50	60	64	80	90	100	
Nominal Output Torque		Nm	500	500	550	650	650	450	550	650	550	650	650	610	510	440	440	440	
		in.lb	4425	4425	4868	5753	5753	3983	4868	5753	4868	5753	5753	5399	4514	4514	3894	3894	
Emergency Stop Torque	T_{2Not}	Nm	1500	1500	1650	1950	1950	1350	1650	1950	1650	1950	1950	1830	1530	1320	1320	1320	
		in.lb	13276	13276	14604	17259	17259	11948	14604	17259	14604	17259	17259	16197	13542	13542	11683	11683	
Maximum Acceleration Torque	T_{2B}	Nm	900	900	990	1170	1170	810	990	1170	990	1170	1170	1098	918	918	792	792	
		in.lb	7966	7966	8762	10355	10355	7169	8762	10355	8762	10355	10355	9718	8125	8125	7010	7010	
Maximum Torque	T_{2a}	Nm	1000	1000	1100	1300	1300	900	1100	1300	1100	1300	1300	1220	1020	1020	880	880	
		in.lb	8851	8851	9736	11506	11506	7966	9736	11506	9736	11506	11506	10798	9028	9028	7789	7789	
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	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
		in.lb	21.68	20.36	21.68	20.36	20.36	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	
Maximum Torsional Backlash	j_i	arcmin	≤ 10																
Torsional Rigidity	C_{121}	Nm/arcmin	45-52																
		in.lb/arcmin	398.28-460.24																
Maximum Radial Load	F_{2AMax}	N	9600																
		lb _r	2158																
Maximum Axial Load	F_{2OMax}	N	4800																
		lb _r	1079																
Max. Tilting Moment	M_{2KMax}	Nm	830																
		in.lb	7346.08																
Mass Moment of Inertia	j_1	kgcm ²	12.35	12.35	7.47	6.65	5.81	6.34	6.34	5.36	4.08	5.36	4.08	7.40	7.50	7.40	7.40		
Operating Noise Level	L_{PA}	dB(A)	< 65																
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	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)																
Weight	m	kg	25																
		lb _m	55.1																

KVE160 1-stage

		1-stage									
Ratio	i		3	4	5	6	7	8	9	10	
Nominal Output Torque		Nm	450	550	650	610	540	510	440	440	
		in.lb	3983	4868	5753	5399	4779	4514	3894	3894	
Emergency Stop Torque	T_{2Not}	Nm	1350	1650	1950	1830	1620	1530	1320	1320	
		in.lb	11948	14604	17259	16197	14338	13542	11683	11683	
Maximum Acceleration Torque	T_{2B}	Nm	810	990	1170	1098	972	918	792	792	
		in.lb	7169	8762	10355	9718	8603	8125	7010	7010	
Maximum Torque	T_{2a}	Nm	900	1100	1300	1220	1080	1020	880	880	
		in.lb	7966	9736	11506	10798	9559	9028	7789	7789	
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_{121}	Nm/arcmin	45-52								
		in.lb/arcmin	398.28-460.24								
Maximum Radial Load	F_{2AMax}	N	9600								
		lb _r	2158								
Maximum Axial Load	F_{2OMax}	N	4800								
		lb _r	1079								
Max. Tilting Moment	M_{2KMax}	Nm	830								
		in.lb	7346.08								
Mass Moment of Inertia	j_1	kgcm ²	12.31	7.54	7.42	7.25	7.25	7.14	7.14	7.14	
Operating Noise Level	L_{PA}	dB(A)	< 65								
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	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)								
Weight	m	kg	20								
		lb _m	44.1								

KVE160 2-stage

		2-stage																	
Ratio	i		12	15	16	20	25	30	32	35	40	45	50	60	64	80	90	100	
Nominal Output Torque		Nm	500	500	550	650	650	450	550	650	550	650	650	610	510	440	440	440	
		in.lb	4425	4425	4868	5753	5753	3983	4868	5753	4868	5753	5753	5399	4514	4514	3894	3894	
Emergency Stop Torque	T_{2Not}	Nm	1500	1500	1650	1950	1950	1350	1650	1950	1650	1950	1950	1830	1530	1320	1320	1320	
		in.lb	13276	13276	14604	17259	17259	11948	14604	17259	14604	17259	17259	16197	13542	13542	11683	11683	
Maximum Acceleration Torque	T_{2B}	Nm	900	900	990	1170	1170	810	990	1170	990	1170	1170	1098	918	792	792	792	
		in.lb	7966	7966	8762	10355	10355	7169	8762	10355	8762	10355	10355	9718	8125	7010	7010		
Maximum Torque	T_{2a}	Nm	1000	1000	1100	1300	1300	900	1100	1300	1100	1300	1300	1220	1020	880	880	880	
		in.lb	8851	8851	9736	11506	11506	7966	9736	11506	9736	11506	11506	10798	9028	7789	7789		
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	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
		in.lb	21.68	20.36	21.68	20.36	20.36	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	
Maximum Torsional Backlash	j_i	arcmin	≤ 10																
Torsional Rigidity	C_{121}	Nm/arcmin	45-52																
		in.lb/arcmin	398.28-460.24																
Maximum Radial Load	F_{2AMax}	N	9600																
		lb _r	2158																
Maximum Axial Load	F_{2OMax}	N	4800																
		lb _r	1079																
Max. Tilting Moment	M_{2KMax}	Nm	830																
		in.lb	7346.08																
Mass Moment of Inertia	j_1	kgcm ²	12.35	12.35	7.47	6.65	5.81	6.34	6.34	5.36	4.08	5.36	4.08	7.40	7.50	7.40	7.40		
Operating Noise Level	L_{PA}	dB(A)	< 65																
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	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)																
Weight	m	kg	25																
		lb _m	55.1																

KVE205 1-stage

		1-stage									
Ratio	i		3	4	5	6	7	8	9	10	
Nominal Output Torque		Nm	650	1250	1200	1000	1000	1000	910	910	
		in.lb	5753	11063	10621	8851	8851	8851	8054	8054	
Emergency Stop Torque	T_{2Not}	Nm	1950	3750	3600	3000	3000	3000	2730	2730	
		in.lb	17259	33190	31863	26552	26552	26552	24162	24162	
Maximum Acceleration Torque	T_{2B}	Nm	1170	2250	2160	1800	1800	1800	1638	1638	
		in.lb	10355	19914	19118	15931	15931	15931	14497	14497	
Maximum Torque	T_{2a}	Nm	1300	2500	2400	2000	2000	2000	1820	1820	
		in.lb	11506	22127	21242	17701	17701	17701	16108	16108	
Permitted Average Input Speed	n_{1N}	rpm	3000								
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_{121}	Nm/arcmin	120-138								
		in.lb/arcmin	1062.08-1221.40								
Maximum Radial Load	F_{2AMax}	N	14000								
		lb _r	3147								
Maximum Axial Load	F_{2OMax}	N	7000								
		lb _r	1574								
Max. Tilting Moment	M_{2KMax}	Nm	1386								
		in.lb	12267.07								
Mass Moment of Inertia	j_1	kgcm ²	28.98	23.67	22.75	22.48	22.48	22.59	22.59	22.55	
Operating Noise Level	L_{PA}	dB(A)	< 67								
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	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)								
Weight	m	kg	31								
		lb _m	68.3								

KVE205 2-stage

		2-stage																	
Ratio	i		12	15	16	20	25	30	32	35	40	45	50	60	64	80	90	100	
Nominal Output Torque		Nm	650	850	1250	1200	1200	650	1250	1200	1200	1200	1200	1000	1000	1000	910	910	
		in.lb	5753	7523	11063	10621	10621	5753	11063	10621	10621	10621	10621	8851	8851	8851	8054	8054	
Emergency Stop Torque	T_{2Not}	Nm	1950	2550	3750	3600	3600	1950	3750	3600	3600	3600	3600	3000	3000	3000	2730	2730	
		in.lb	17259	22569	33190	31863	31863	17259	33190	31863	31863	31863	31863	26552	26552	26552	24162	24162	
Maximum Acceleration Torque	T_{2B}	Nm	1170	1530	2250	2160	2160	1170	2250	2160	2160	2160	2160	1800	1800	1800	1638	1638	
		in.lb	10355	13542	19914	19118	19118	10355	19914	19118	19118	19118	19118	15931	15931	15931	14497	14497	
Maximum Torque	T_{2a}	Nm	1300	1700	2500	2400	2400	1300	2500	2400	2400	2400	2400	2000	2000	2000	1820	1820	
		in.lb	11506	15046	22127	21242	21242	11506	22127	21242	21242	21242	21242	17701	17701	17701	16108	16108	
Permitted Average Input Speed	n_{1N}	rpm	3000																
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	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
		in.lb	21.68	20.36	21.68	20.36	20.36	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	
Maximum Torsional Backlash	j_i	arcmin	≤ 10																
Torsional Rigidity	C_{121}	Nm/arcmin	125-138																
		in.lb/arcmin	1106.34-1221.40																
Maximum Radial Load	F_{2AMax}	N	14000																
		lb _r	3147																
Maximum Axial Load	F_{2OMax}	N	7000																
		lb _r	1574																
Max. Tilting Moment	M_{2KMax}	Nm	1386																
		in.lb	12267.07																
Mass Moment of Inertia	j_1	kgcm ²	12.35	12.30	7.54	7.42	7.54	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	
Operating Noise Level	L_{PA}	dB(A)	< 67																
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	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)																
Weight	m	kg	39																
		lb _m	86																

KVE205 1-stage

		1-stage									
Ratio	i		3	4	5	6	7	8	9	10	
Nominal Output Torque		Nm	650	1250	1200	1000	1000	1000	910	910	
		in.lb	5753	11063	10621	8851	8851	8851	8054	8054	
Emergency Stop Torque	T_{2Not}	Nm	1950	3750	3600	3000	3000	3000	2730	2730	
		in.lb	17259	33190	31863	26552	26552	26552	24162	24162	
Maximum Acceleration Torque	T_{2B}	Nm	1170	2250	2160	1800	1800	1800	1638	1638	
		in.lb	10355	19914	19118	15931	15931	15931	14497	14497	
Maximum Torque	T_{2a}	Nm	1300	2500	2400	2000	2000	2000	1820	1820	
		in.lb	11506	22127	21242	17701	17701	17701	16108	16108	
Permitted Average Input Speed	n_{1N}	rpm	3000								
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_{121}	Nm/arcmin	120-138								
		in.lb/arcmin	1062.08-1221.40								
Maximum Radial Load	F_{2AMax}	N	14000								
		lb _r	3147								
Maximum Axial Load	F_{2OMax}	N	7000								
		lb _r	1574								
Max. Tilting Moment	M_{2KMax}	Nm	1386								
		in.lb	12267.07								
Mass Moment of Inertia	j_1	kgcm ²	28.98	23.67	22.75	22.48	22.48	22.59	22.59	22.55	
Operating Noise Level	L_{PA}	dB(A)	< 67								
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	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)								
Weight	m	kg	31								
		lb _m	68.3								

KVE205 2-stage

		2-stage																	
Ratio	i		12	15	16	20	25	30	32	35	40	45	50	60	64	80	90	100	
Nominal Output Torque		Nm	650	850	1250	1200	1200	650	1250	1200	1200	1200	1200	1000	1000	1000	910	910	
		in.lb	5753	7523	11063	10621	10621	5753	11063	10621	10621	10621	10621	8851	8851	8851	8054	8054	
Emergency Stop Torque	T_{2Not}	Nm	1950	2550	3750	3600	3600	1950	3750	3600	3600	3600	3600	3000	3000	3000	2730	2730	
		in.lb	17259	22569	33190	31863	31863	17259	33190	31863	31863	31863	31863	26552	26552	26552	24162	24162	
Maximum Acceleration Torque	T_{2B}	Nm	1170	1530	2250	2160	2160	1170	2250	2160	2160	2160	2160	1800	1800	1800	1638	1638	
		in.lb	10355	13542	19914	19118	19118	10355	19914	19118	19118	19118	19118	15931	15931	15931	14497	14497	
Maximum Torque	T_{2a}	Nm	1300	1700	2500	2400	2400	1300	2500	2400	2400	2400	2400	2000	2000	2000	1820	1820	
		in.lb	11506	15046	22127	21242	21242	11506	22127	21242	21242	21242	21242	17701	17701	17701	16108	16108	
Permitted Average Input Speed	n_{1N}	rpm	3000																
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	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
		in.lb	21.68	20.36	21.68	20.36	20.36	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	19.47	
Maximum Torsional Backlash	j_i	arcmin	≤ 10																
Torsional Rigidity	C_{121}	Nm/arcmin	125-138																
		in.lb/arcmin	1106.34-1221.40																
Maximum Radial Load	F_{2AMax}	N	14000																
		lb _r	3147																
Maximum Axial Load	F_{2OMax}	N	7000																
		lb _r	1574																
Max. Tilting Moment	M_{2KMax}	Nm	1386																
		in.lb	12267.07																
Mass Moment of Inertia	j_1	kgcm ²	12.35	12.30	7.54	7.42	7.54	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	7.14	
Operating Noise Level	L_{PA}	dB(A)	< 67																
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	S5 Cycle Operation: >30,000 (S1 Continuous Operation: >15,000 hrs)																
Weight	m	kg	39																
		lb _m	86																

