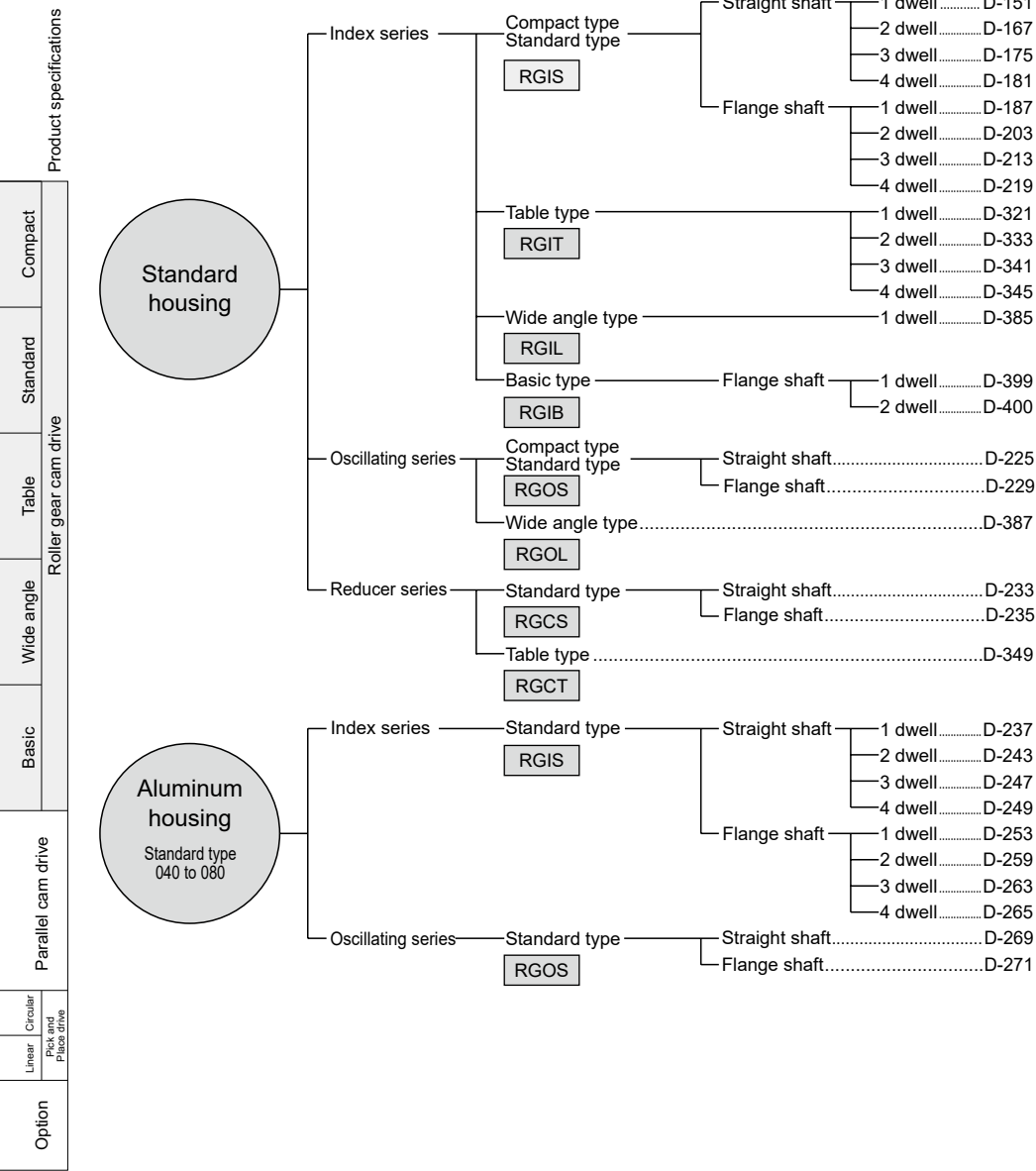


Output torque table

● How to read a torque table

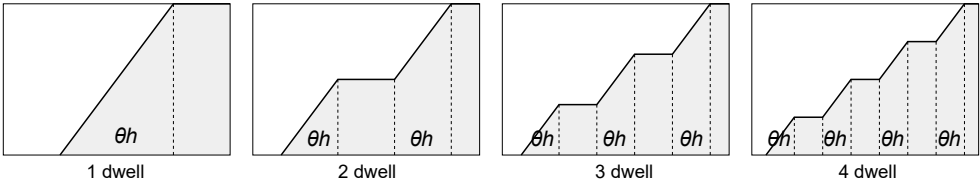
Page



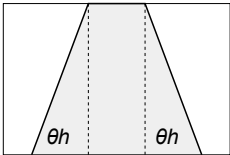
Caution

1. The output torque data is organized as in the table to the left.
2. The index angle is the total index angle of 1 rotation of the input shaft.
3. The data is based on the standard service life of 10,000 hours.

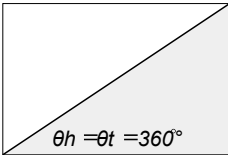
Index series



Oscillating series



Reducer Series



$$\theta t = \theta h \times z$$

θt : Total index angle
 θh : Index angle
 z : Dwell No.

How to read the output torque table

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Dynamic rated output torque (N·m)								
				Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
3	330	140	1640	939	889	763	682	624	556	470	414	334
		180	3030	1810	1710	1470	1310	1200	1060	890	770	590
		250	10400	4070	3850	3300	2940	2680	2370	1940	1630	
120	90	032	1.39	0.78	0.69	0.59	0.53	0.48	0.42	0.34		
		025	1.09	0.72	0.64	0.55	0.49	0.45	0.40	0.33	0.29	
		022	1.39	0.92	0.82	0.70	0.62	0.57	0.51	0.42	0.36	
		025	1.49	0.83	0.75	0.64	0.57	0.52	0.46	0.39	0.34	
		032	2.70	1.52	1.37	1.17	1.04	0.95	0.85	0.71	0.61	
		040	10.2	6.66	5.99	5.11	4.57	4.18	3.72	3.14	2.75	2.20
150	050	050	12.8	8.90	8.45	8.14	7.91	7.74	7.50	6.30	5.45	4.13
		063	65.4	35.4	31.8	27.1	24.2	22.1	20.0	16.2	13.9	10.0
		080	152	68.1	61.2	52.2	46.1	42.1	38.1	31.1	26.1	18.1
		100	331	193	173	147	131	120	106	89	77	59
		120	590	330	300	260	230	210	190	160	140	110

- Static rated output torque (N·m)
- Size: C which represents the shaft interval
- Total index angle θt (°)
- Index number n
- Input shaft rotational speed N (rpm)
- Dynamic rated output torque Tr (N·m)

Output torque table

Index series

● RGIS straight shaft (1 dwell)

Cam curve/MS

Cam curve/MS																
Product specifications			Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
							Input shaft rotational speed (rpm)									
							30	60	90	120	150	200	300	400	600	
Roller gear cam drive	Compact	2	150	025	1.09	0.56	0.49	0.42	0.38	0.34	0.30	0.25				
				032	1.99	1.02	0.9	0.77	0.68	0.62	0.55					
		180	025	1.09	0.63	0.56	0.48	0.43	0.39	0.35	0.29	0.25				
			032	2.69	1.56	1.39	1.19	1.06	0.97	0.86	0.73					
		210	025	1.09	0.69	0.62	0.53	0.47	0.43	0.38	0.32	0.28				
			032	2.69	1.70	1.53	1.30	1.16	1.07	0.95	0.80	0.71				
		240	025	1.09	0.73	0.66	0.57	0.51	0.46	0.41	0.35	0.31				
			032	2.69	1.81	1.64	1.40	1.25	1.15	1.02	0.87	0.77				
	Standard	2	270	025	1.09	0.76	0.70	0.60	0.53	0.49	0.44	0.37	0.33			
				032	2.69	1.89	1.74	1.48	1.33	1.21	1.08	0.92	0.82			
		040	10.9	6.64	6.45	6.21	6.05	5.93	5.77	4.92	4.37	3.63				
		050	19.9	12.3	12.0	11.5	11.2	11.0	10.7	10.2	9.4	7.7				
		063	85.1	44.2	40.6	34.6	30.9	28.3	25.2	21.2	18.6	14.7				
		080	164	100	97	89	80	73	65	55	48	38				
		110	359	220	211	180	161	147	130	109	94					
		140	950	444	407	347	309	282	248	203	168					
	Table	2		180	2860	1110	1020	870	770	700	610	490				
				250	5840	2620	2400	2040	1800	1620	1400					
		Wide angle	2	300	025	2.13	1.19	1.10	0.94	0.84	0.77	0.69	0.58	0.52		
					032	4.77	2.69	2.49	2.13	1.90	1.74	1.55	1.32	1.17		
040			30.6	16.1	14.9	12.7	11.4	10.4	9.3	7.9	7.1	5.9				
050			50.1	28.1	26.1	22.3	19.9	18.2	16.3	13.8	12.2	10.1				
063	85.1		47.0	43.6	37.2	33.3	30.4	27.1	22.9	20.2	16.3					
080	242		140	130	111	99	91	81	68	60	49					
110	591		286	265	226	202	184	164	138	120	93					
140	1160		598	555	473	422	385	342	284	242						
Basic	2		180	3030	1430	1330	1130	1010	920	810	660					
			250	10400	3260	3010	2560	2270	2060	1790						
	Parallel cam drive	2	330	025	2.13	1.25	1.17	1.00	0.90	0.82	0.73	0.62	0.55			
				032	4.77	2.83	2.65	2.26	2.02	1.85	1.65	1.41	1.25			
		040	30.6	17.0	15.9	13.5	12.1	11.1	9.9	8.4	7.5	6.3				
		050	50.1	29.6	27.7	23.6	21.1	19.4	17.3	14.7	13.0	10.9				
063		119	56.6	52.9	45.2	40.3	36.9	33.0	27.9	24.7	20.3					
080		242	148	138	118	105	96	86	73	65	53					
110		591	301	281	240	214	196	175	147	129	102					
140		1160	631	590	503	449	411	365	305	263						
Option	3	120	025	1.09	0.62	0.55	0.47	0.42	0.38	0.34	0.28	0.24				
			032	2.69	1.54	1.37	1.16	1.04	0.95	0.84	0.70					
	150	025	1.09	0.71	0.63	0.54	0.48	0.44	0.39	0.33	0.29					
		032	2.69	1.75	1.56	1.33	1.19	1.09	0.97	0.82	0.71					
	180	025	1.09	0.76	0.69	0.59	0.52	0.48	0.43	0.36	0.32					
		032	2.69	1.89	1.71	1.46	1.30	1.19	1.06	0.90	0.79					
		040	10.9	6.64	6.33	6.10	5.94	5.81	5.65	4.81	4.25	3.48				
		050	19.9	12.3	11.7	11.3	11.0	10.8	10.4	9.9	9.1	7.2				
063		85.1	44.2	39.8	34.0	30.3	27.7	24.6	20.6	17.8	13.5					
080		164	100	96	87	78	71	63	53	46	36					
110	359	220	207	177	157	144	127	105	88							
140	950	444	400	340	302	275	241	192	152							
180	2860	1110	1000	850	750	680	590	450								
250	5840	2620	2350	1990	1750	1560	1310									

● RGIS straight shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
3	210	025	2.13	1.22	1.12	0.95	0.85	0.78	0.70	0.59	0.52	
		032	4.77	2.76	2.53	2.16	1.93	1.76	1.57	1.33	1.18	
		040	10.9	7.27	7.03	6.77	6.60	6.46	6.29	5.37	4.76	3.96
		050	50.1	28.9	26.4	22.5	20.1	18.4	16.4	13.9	12.3	10.1
		063	85.1	48.3	44.2	37.7	33.7	30.8	27.4	23.1	20.2	16.0
		080	242	144	132	112	100	92	82	69	61	49
		110	591	293	268	229	204	187	166	138	119	89
		140	1160	615	562	479	427	390	344	283	238	
		180	2860	1220	1110	950	840	760	670	530		
	250	5840	2870	2620	2220	1960	1770	1520				
	240	025	2.13	1.31	1.22	1.04	0.93	0.85	0.76	0.64	0.57	
		032	4.77	2.97	2.75	2.34	2.09	1.92	1.71	1.45	1.29	
		040	30.6	17.7	16.4	14.0	12.5	11.5	10.2	8.7	7.8	6.5
		050	50.1	30.9	28.6	24.4	21.8	20.0	17.8	15.2	13.4	11.1
		063	85.1	51.8	48.0	40.9	36.6	33.5	29.8	25.2	22.2	18.0
		080	242	154	143	122	109	100	89	75	66	54
		110	591	314	291	248	222	203	180	152	132	103
		140	1160	660	611	521	465	424	376	313	268	
		180	3030	1580	1460	1250	1110	1010	890	730	610	
	250	10400	3580	3310	2810	2490	2260	1970	1530			
	270	025	2.13	1.39	1.30	1.11	0.99	0.91	0.81	0.69	0.61	
		032	7.41	4.87	4.56	3.89	3.48	3.19	2.85	2.42	2.16	
		040	41.6	26.1	24.4	20.8	18.6	17.1	15.3	13.0	11.6	9.8
		050	50.1	32.6	30.5	26.0	23.3	21.3	19.0	16.2	14.4	12.0
		063	85.1	54.7	51.1	43.7	39.0	35.7	31.9	27.0	23.9	19.6
080		242	163	152	130	116	106	95	81	71	59	
110		591	332	310	265	236	216	193	163	143	114	
140		1160	697	652	556	496	454	403	338	293	224	
180		3030	1670	1560	1330	1190	1080	960	790	670		
250	10400	3770	3530	3000	2670	2430	2130	1700				
300	025	2.89	1.97	1.86	1.59	1.42	1.30	1.16	0.99	0.88		
	032	7.41	5.09	4.81	4.11	3.67	3.36	3.00	2.56	2.28		
	040	41.6	27.2	25.7	22.0	19.6	18.0	16.1	13.7	12.2	10.4	
	050	67.0	45.2	42.7	36.4	32.6	29.8	26.7	22.7	20.2	17.0	
	063	119	65.0	61.4	52.4	46.9	42.9	38.3	32.5	28.9	24.0	
	080	262	207	204	174	156	143	127	108	96	80	
	110	738	451	426	364	325	298	265	225	199	163	
	140	1640	907	857	731	653	597	532	448	393	312	
	180	3030	1740	1650	1400	1250	1140	1020	850	730		
250	10400	3930	3710	3160	2810	2560	2260	1830	1510			
330	025	2.89	2.04	1.93	1.66	1.48	1.36	1.21	1.04	0.92		
	032	7.41	5.27	4.99	4.29	3.83	3.51	3.14	2.68	2.38		
	040	41.6	28.2	26.7	22.9	20.5	18.8	16.8	14.3	12.8	10.8	
	050	67.0	46.7	44.2	38.0	33.9	31.1	27.8	23.7	21.1	17.8	
	063	129	106	106	97	87	80	71	61	54	45	
	080	262	214	212	182	162	149	133	113	101	85	
	110	738	467	442	379	339	310	277	235	208	172	
	140	1640	939	889	763	682	624	556	470	414	334	
	180	3030	1810	1710	1470	1310	1200	1060	890	770	590	
250	10400	4070	3850	3300	2940	2680	2370	1940	1630			

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive

Linear

Circular

Option

Output torque table

Index series

● RGIS straight shaft (1 dwell)

Cam curve/MS

Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
						Input shaft rotational speed (rpm)									
						30	60	90	120	150	200	300	400	600	
Roller gear cam drive	Compact	90	032	1.39	0.78	0.69	0.59	0.53	0.48	0.42	0.34				
			025	1.09	0.72	0.64	0.55	0.49	0.45	0.40	0.33	0.29			
			032	1.39	0.92	0.82	0.70	0.62	0.57	0.51	0.42	0.36			
		120	025	1.49	0.83	0.75	0.64	0.57	0.52	0.46	0.39	0.34			
			032	2.70	1.52	1.37	1.17	1.04	0.95	0.85	0.71	0.61			
			040	10.2	6.66	5.99	5.11	4.57	4.18	3.72	3.14	2.75	2.20		
		150	050	12.8	8.90	8.45	8.14	7.91	7.74	7.50	6.30	5.45	4.13		
			063	63.6	35.4	31.8	27.1	24.2	22.1	19.5	16.2	13.8	9.9		
			080	108	59.7	53.6	45.7	40.7	37.2	32.9	27.0	22.7	15.4		
			110	331	193	173	147	131	119	105	85	70	43		
			140	760	362	325	276	245	222	193	150	113			
			180	1490	769	689	583	514	462	393	280				
			250	4150	2000	1780	1500	1310	1160	950					
	Standard	180	025	1.49	0.92	0.84	0.72	0.64	0.59	0.52	0.44	0.39			
			032	2.70	1.68	1.54	1.31	1.17	1.07	0.95	0.81	0.71			
			040	10.9	7.79	7.53	7.25	7.07	6.92	6.73	5.75	5.10	4.24		
			050	19.9	14.4	13.9	13.4	13.1	12.8	12.4	11.9	11.0	8.9		
			063	63.6	38.9	35.6	30.4	27.1	24.8	22.0	18.5	16.0	12.4		
			080	152	75.0	68.6	58.5	52.2	47.7	42.4	35.4	30.6	23.2		
			110	359	258	246	210	187	171	152	127	109	80		
			140	950	522	477	406	361	329	290	237	196			
			180	2100	1060	960	820	730	660	580	450	350			
			250	4150	2200	2000	1690	1490	1340	1130	800				
	Table	210	025	2.13	1.41	1.31	1.12	1.00	0.91	0.82	0.69	0.62			
			032	4.77	3.18	2.95	2.52	2.25	2.06	1.84	1.56	1.39			
			040	17.9	13.9	13.6	13.1	12.8	12.3	11.0	9.4	8.3	7.0		
			050	19.9	15.4	15.1	14.6	14.2	13.9	13.5	12.9	12.0	9.9		
			063	63.6	41.7	38.7	33.0	29.4	27.0	24.0	20.3	17.8	14.2		
			080	164	126	124	113	101	92	82	70	62	50		
			110	359	277	268	228	204	186	166	139	121	94		
			140	950	560	519	442	394	360	319	264	224	159		
			180	2100	1130	1050	890	790	720	640	510	420			
			250	4150	2350	2170	1840	1630	1470	1270	960				
	Wide angle	240	025	2.13	1.49	1.40	1.19	1.07	0.98	0.87	0.74	0.66			
			032	4.77	3.35	3.15	2.69	2.40	2.20	1.96	1.67	1.48			
			040	17.9	14.6	14.5	14.0	13.6	13.1	11.7	10.0	8.9	7.5		
			050	19.9	16.2	16.1	15.5	15.1	14.8	14.4	13.8	12.8	10.7		
			063	63.6	43.9	41.1	35.1	31.4	28.7	25.6	21.7	19.1	15.6		
			080	164	133	132	120	108	99	88	75	66	55		
			110	359	291	285	243	217	199	177	149	131	105		
			140	950	589	553	471	420	384	341	285	246	185		
			180	2100	1190	1120	950	850	770	680	560	470	310		
			250	5840	3450	3230	2750	2440	2220	1950	1560	1240			
	Basic	270	025	2.13	1.55	1.47	1.25	1.12	1.03	0.92	0.78	0.70			
			032	4.77	3.49	3.30	2.82	2.52	2.31	2.06	1.76	1.56			
			040	17.9	15.1	15.1	14.6	14.2	13.8	12.3	10.5	9.3	7.9		
			050	19.9	16.8	16.8	16.2	15.8	15.5	15.1	14.5	13.5	11.3		
			063	63.6	45.5	43.1	36.8	32.9	30.2	26.9	22.8	20.2	16.7		
			080	164	138	138	126	113	103	92	78	70	58		
			110	591	367	348	297	265	243	217	183	162	132		
			140	1160	775	733	626	559	512	456	384	335	265		
			180	2860	1530	1450	1240	1100	1010	900	740	640	470		
			250	5840	3580	3390	2890	2570	2340	2060	1680	1380			
Parallel cam drive	Circular Peak and Pulse time	240	025	2.13	1.49	1.40	1.19	1.07	0.98	0.87	0.74	0.66			
			032	4.77	3.35	3.15	2.69	2.40	2.20	1.96	1.67	1.48			
			040	17.9	14.6	14.5	14.0	13.6	13.1	11.7	10.0	8.9	7.5		
			050	19.9	16.2	16.1	15.5	15.1	14.8	14.4	13.8	12.8	10.7		
			063	63.6	43.9	41.1	35.1	31.4	28.7	25.6	21.7	19.1	15.6		
			080	164	133	132	120	108	99	88	75	66	55		
	Option	270	025	2.13	1.55	1.47	1.25	1.12	1.03	0.92	0.78	0.70			
			032	4.77	3.49	3.30	2.82	2.52	2.31	2.06	1.76	1.56			
			040	17.9	15.1	15.1	14.6	14.2	13.8	12.3	10.5	9.3	7.9		
			050	19.9	16.8	16.8	16.2	15.8	15.5	15.1	14.5	13.5	11.3		
			063	63.6	45.5	43.1	36.8	32.9	30.2	26.9	22.8	20.2	16.7		
			080	164	138	138	126	113	103	92	78	70	58		

● RGIS straight shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
4	300	025	2.13	1.60	1.51	1.31	1.17	1.07	0.96	0.81	0.73	
		032	4.77	3.59	3.40	2.94	2.63	2.41	2.15	1.83	1.63	
		040	30.6	21.3	20.2	17.4	15.6	14.3	12.8	10.9	9.7	8.2
		050	50.1	37.1	35.1	30.3	27.1	24.8	22.2	18.9	16.8	14.2
		063	85.1	62.3	59.0	50.9	45.5	41.7	37.2	31.7	28.1	23.5
		080	164	142	142	131	117	108	96	82	73	61
		110	591	378	358	309	276	253	225	191	169	139
		140	1160	798	755	652	582	533	475	401	352	283
		180	2860	1580	1490	1290	1150	1050	930	780	680	510
		250	5840	3680	3480	3000	2670	2440	2160	1770	1490	
	330	025	2.13	1.64	1.55	1.35	1.21	1.11	0.99	0.84	0.75	
		032	4.77	3.68	3.48	3.03	2.71	2.48	2.22	1.89	1.69	
		040	30.6	21.8	20.7	18.0	16.1	14.7	13.2	11.2	10.0	8.5
		050	50.1	37.9	35.9	31.2	27.9	25.6	22.8	19.5	17.4	14.7
		063	85.1	63.8	60.4	52.5	47.0	43.0	38.4	32.7	29.1	24.4
		080	164	145	145	135	121	111	99	84	75	63
		110	591	386	366	318	284	261	233	197	175	145
		140	1160	817	773	673	601	550	490	415	366	298
		180	2860	1620	1530	1330	1190	1090	970	810	710	550
		250	5840	3760	3560	3100	2760	2520	2230	1850	1570	1120
5	120	040	7.19	4.92	4.38	3.74	3.33	3.05	2.71	2.27	1.96	1.49
		050	13.1	8.32	7.40	6.30	5.61	5.12	4.52	3.70	3.09	2.01
		063	16.4	11.2	10.5	10.1	9.8	9.5	9.1	7.3	5.8	2.9
		080	80.0	45.0	40.0	34.0	30.3	27.5	24.2	19.4	15.6	8.3
		110	200	94.1	83.6	71.0	62.8	56.8	49.1	37.3	26.7	
		140	420	245	217	184	162	146	124	89	55	
		180	976	465	411	345	299	263	211	112		
		250	2870	1330	1170	970	830	710	530			
	150	032	1.89	1.20	1.09	0.93	0.83	0.76	0.67	0.56	0.49	
		040	7.19	5.45	4.95	4.23	3.77	3.45	3.08	2.60	2.28	1.83
		050	12.8	9.87	9.46	9.11	8.87	8.68	8.42	7.12	6.21	4.88
		063	25.3	18.5	17.8	17.1	16.6	16.2	15.7	14.8	13.3	9.9
		080	108	67.1	60.9	51.9	46.3	42.3	37.5	31.2	26.7	19.4
		110	225	165	158	145	129	117	104	85	71	47
		140	462	335	317	270	240	218	191	151	118	54
		180	976	524	474	400	352	316	267	184		
		250	2870	1490	1350	1130	990	870	710	420		
	180	032	2.70	1.86	1.71	1.46	1.31	1.20	1.07	0.90	0.79	
		040	10.2	7.93	7.32	6.25	5.58	5.11	4.56	3.87	3.43	2.85
		050	12.8	10.5	10.3	9.9	9.6	9.4	9.2	7.8	6.9	5.6
		063	25.3	20.0	19.5	18.8	18.3	17.9	17.3	16.5	15.1	11.8
		080	108	72.4	66.8	57.0	50.9	46.6	41.4	34.8	30.3	23.5
		110	225	178	174	159	142	129	115	96	82	61
		140	462	362	349	297	265	241	213	174	144	90
		180	1220	739	681	579	513	465	405	315	237	
		250	3910	1990	1830	1550	1370	1230	1050	760	480	
	210	032	2.70	1.96	1.84	1.57	1.40	1.28	1.14	0.97	0.86	
		040	14.8	8.30	7.77	6.63	5.93	5.43	4.85	4.12	3.66	3.07
		050	12.8	11.0	10.9	10.5	10.2	10.0	9.7	8.3	7.3	6.1
		063	63.6	45.2	42.3	36.1	32.2	29.5	26.3	22.3	19.6	15.9
		080	152	87.1	81.5	69.6	62.1	56.9	50.7	42.8	37.6	30.3
		110	331	246	230	196	175	160	143	120	104	82
		140	462	382	374	318	284	259	230	190	161	114
		180	1490	987	923	786	699	637	561	455	373	223
		250	4150	2540	2370	2020	1790	1620	1410	1100	830	

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive

Linear

Option

Output torque table

Index series

● RGIS straight shaft (1 dwell)

Cam curve/MS

Cam curve/MS														
Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
						Input shaft rotational speed (rpm)								
						30	60	90	120	150	200	300	400	600
Compact	Roller gear cam drive	5	240	025	1.49	1.12	1.06	0.90	0.81	0.74	0.66	0.56	0.50	
				032	2.70	2.04	1.93	1.65	1.47	1.35	1.20	1.02	0.91	
				040	10.9	9.39	9.39	9.06	8.83	8.65	8.43	7.21	6.43	5.43
				050	37.9	26.6	25.1	21.5	19.2	17.6	15.7	13.4	11.9	9.9
				063	63.6	46.9	44.4	37.9	33.9	31.0	27.7	23.5	20.8	17.1
				080	152	90.4	85.6	73.1	65.3	59.8	53.3	45.2	39.9	32.7
				110	331	255	241	206	184	168	150	127	111	89
				140	760	483	457	391	348	319	283	237	205	155
				180	1490	1030	970	830	740	670	590	490	410	280
				250	4150	2640	2490	2120	1890	1720	1500	1200	960	
Standard	Roller gear cam drive	5	270	025	1.49	1.15	1.09	0.94	0.84	0.77	0.69	0.59	0.52	
				032	3.66	2.84	2.69	2.32	2.08	1.90	1.70	1.45	1.29	
				040	10.9	9.65	9.65	9.41	9.17	8.99	8.75	7.50	6.69	5.67
				050	37.9	27.3	25.8	22.3	19.9	18.3	16.3	13.9	12.4	10.4
				063	63.6	48.2	45.6	39.4	35.2	32.2	28.8	24.4	21.7	18.0
				080	152	92.9	88.0	76.0	67.9	62.2	55.5	47.1	41.7	34.5
				110	359	319	315	272	243	223	199	168	149	122
				140	760	497	471	406	362	332	295	248	216	169
				180	1490	1050	1000	860	770	700	620	520	440	320
				250	4150	2710	2560	2200	1960	1790	1580	1280	1050	640
Table	Roller gear cam drive	5	300	025	1.49	1.18	1.11	0.97	0.87	0.80	0.71	0.61	0.54	
				032	3.66	2.90	2.75	2.40	2.14	1.96	1.75	1.49	1.33	
				040	10.9	9.85	9.85	9.70	9.45	9.26	9.02	7.73	6.90	5.85
				050	37.9	27.8	26.3	23.0	20.5	18.8	16.8	14.3	12.8	10.8
				063	63.6	49.2	46.5	40.6	36.2	33.2	29.6	25.2	22.4	18.7
				080	152	94.9	89.8	78.3	69.9	64.1	57.2	48.6	43.1	35.9
				110	359	326	322	281	251	230	205	174	154	128
				140	760	508	481	419	374	342	305	257	225	180
				180	1490	1080	1020	890	790	720	640	540	460	350
				250	4150	2760	2610	2270	2020	1850	1630	1340	1120	750
Wide angle	Roller gear cam drive	5	330	025	1.49	1.20	1.13	1.00	0.89	0.82	0.73	0.62	0.55	
				032	3.66	2.95	2.79	2.46	2.20	2.01	1.80	1.53	1.37	
				040	10.9	10.0	10.0	9.9	9.7	9.5	9.2	7.9	7.1	6.0
				050	37.9	28.3	26.7	23.5	21.0	19.3	17.2	14.7	13.1	11.1
				063	63.6	49.9	47.3	41.6	37.1	34.0	30.4	25.9	23.0	19.3
				080	152	96.4	91.2	80.2	71.7	65.7	58.6	49.9	44.3	37.1
				110	359	331	327	287	257	235	210	179	158	132
				140	760	516	488	429	383	351	313	264	233	188
				180	1490	1090	1040	910	810	740	660	550	480	370
				250	4150	2800	2650	2330	2080	1900	1680	1390	1180	840
Basic	Parallel cam drive	5	60	025	1.09	0.60	0.53	0.45	0.40	0.37	0.32	0.26	0.21	
				032	2.69	1.49	1.32	1.13	1.00	0.91	0.80	0.66		
				025	1.09	0.75	0.67	0.57	0.51	0.46	0.41	0.35	0.30	
				032	2.69	1.86	1.65	1.41	1.26	1.15	1.02	0.86	0.75	
				040	10.9	6.53	6.13	5.91	5.75	5.62	5.45	4.61	4.01	3.13
				050	19.9	12.1	11.4	10.9	10.6	10.4	10.0	9.4	8.4	6.1
				063	85.1	43.4	38.6	32.9	29.3	26.7	23.5	19.2	16.0	10.2
				080	164	98.7	92.6	84.6	75.4	68.8	60.8	50.0	41.9	28.0
				110	591	264	234	199	177	161	141	111	87	
				140	950	436	386	327	289	261	223	163	107	
Option	Parallel cam drive	6	90	180	2860	1090	970	810	710	640	530	350		
				250	5840	2570	2270	1890	1630	1420	1100			

● RGIS straight shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
6	120	025	2.89	1.78	1.60	1.36	1.22	1.11	0.99	0.84	0.74	
		032	7.41	4.61	4.14	3.53	3.16	2.89	2.58	2.18	1.92	
		040	41.6	24.7	22.2	18.9	16.9	15.5	13.8	11.8	10.4	8.7
		050	67.0	41.1	36.9	31.5	28.1	25.8	23.0	19.4	17.1	13.9
		063	119	59.1	53.0	45.2	40.4	36.9	32.8	27.5	23.9	18.3
		080	262	188	176	150	134	123	109	92	80	63
		110	738	410	368	314	280	255	226	188	160	115
		140	1640	822	737	628	559	509	449	366	301	
		180	4270	2210	1980	1680	1500	1360	1190	930	730	
		250	10400	3580	3200	2700	2380	2130	1800	1240		
	150	025	3.76	2.56	2.35	2.00	1.79	1.64	1.46	1.25	1.11	
		032	7.41	5.09	4.66	3.98	3.56	3.26	2.91	2.47	2.19	
		040	41.6	27.2	24.9	21.3	19.0	17.4	15.6	13.3	11.8	9.9
		050	67.0	45.2	41.4	35.3	31.5	28.9	25.8	21.9	19.4	16.1
		063	129	102	99	90	81	74	66	56	49	41
		080	262	207	198	169	151	138	123	104	92	75
		110	738	451	413	352	315	288	256	215	187	146
		140	1640	907	830	708	631	577	511	425	364	265
		180	4270	2440	2230	1900	1690	1540	1360	1110	920	
		250	10400	3930	3590	3050	2700	2450	2120	1620	1180	
	180	025	3.76	2.73	2.55	2.17	1.94	1.78	1.59	1.35	1.21	
		032	7.41	5.42	5.05	4.31	3.85	3.53	3.15	2.68	2.39	
		040	41.6	28.9	26.9	23.0	20.6	18.8	16.8	14.3	12.8	10.8
		050	67.0	47.9	44.6	38.1	34.0	31.2	27.9	23.7	21.1	17.7
		063	129	109	107	98	87	80	71	61	54	45
		080	431	268	249	213	190	174	155	132	117	97
		110	903	606	564	482	430	394	351	297	262	212
		140	2230	1190	1110	950	850	770	690	580	500	390
		180	4270	2590	2410	2060	1830	1680	1490	1230	1050	760
		250	10400	4180	3880	3300	2930	2670	2340	1870	1480	
	210	025	3.76	2.86	2.70	2.30	2.06	1.88	1.68	1.44	1.28	
		032	7.41	5.66	5.34	4.56	4.08	3.74	3.34	2.84	2.53	
		040	41.6	30.1	28.5	24.3	21.7	19.9	17.8	15.2	13.5	11.5
		050	67.0	49.9	47.1	40.2	35.9	32.9	29.4	25.1	22.3	18.8
		063	129	113	113	103	92	84	75	64	57	48
		080	431	279	263	225	201	184	164	140	124	104
		110	903	631	596	508	454	416	371	315	279	230
		140	2230	1240	1170	1000	890	820	730	620	540	440
		180	4270	2700	2550	2180	1940	1780	1580	1320	1150	880
		250	10400	4340	4100	3490	3110	2830	2500	2040	1680	
	240	025	3.76	2.94	2.79	2.40	2.15	1.97	1.76	1.50	1.34	
		032	7.41	5.83	5.52	4.75	4.25	3.89	3.48	2.97	2.64	
		040	41.6	31.0	29.4	25.3	22.6	20.7	18.5	15.8	14.1	12.0
		050	67.0	51.3	48.5	41.8	37.4	34.3	30.6	26.1	23.3	19.7
		063	129	116	116	107	96	88	79	67	60	50
		080	431	287	271	234	209	192	171	146	130	109
		110	903	649	614	529	473	433	387	329	292	243
		140	2230	1280	1210	1040	930	850	760	650	570	470
		180	4270	2780	2630	2270	2020	1850	1650	1390	1210	960
		250	10400	4470	4230	3630	3240	2960	2620	2160	1830	1270

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive
Linear Circular

Option

Output torque table

● RGIS straight shaft (1 dwell)

Cam curve/MS

Cam curve/MS															
Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
						Input shaft rotational speed (rpm)									
						30	60	90	120	150	200	300	400	600	
Roller gear cam drive	Compact	6	270	025	3.76	3.01	2.85	2.48	2.22	2.03	1.82	1.55	1.38		
				032	7.41	5.95	5.64	4.91	4.39	4.02	3.59	3.06	2.73		
				040	41.6	31.7	30.0	26.1	23.3	21.4	19.1	16.3	14.6	12.4	
				050	67.0	52.3	49.5	43.1	38.5	35.3	31.6	26.9	24.0	20.4	
				063	129	119	119	111	99	91	81	69	62	52	
				080	431	293	277	241	216	198	177	150	134	113	
				110	1270	825	781	680	608	557	497	423	376	316	
				140	2230	1310	1240	1080	960	880	790	670	590	490	
	Standard	180	4270	2840	2690	2340	2090	1910	1710	1440	1270	1020			
		250	10400	4560	4310	3750	3340	3060	2710	2260	1930	1420			
		Table	300	025	3.76	3.06	2.90	2.55	2.28	2.09	1.86	1.59	1.42		
				032	7.41	6.05	5.73	5.04	4.50	4.12	3.69	3.14	2.81		
				040	41.6	32.1	30.4	26.8	23.9	21.9	19.6	16.7	14.9	12.7	
				050	67.0	53.1	50.2	44.2	39.5	36.2	32.3	27.6	24.6	20.9	
				063	129	120	120	113	101	93	83	71	63	54	
				080	431	297	281	247	221	203	181	154	138	116	
	110			1270	838	793	697	623	571	510	434	386	325		
	140			2230	1330	1260	1110	990	900	810	690	610	510		
	Wide angle	180	4270	2890	2730	2400	2140	1960	1750	1480	1310	1070			
		250	10400	4620	4380	3840	3430	3140	2790	2330	2020	1530			
		Basic	330	025	3.76	3.10	2.93	2.60	2.32	2.13	1.90	1.62	1.45		
				032	7.41	6.12	5.80	5.13	4.59	4.21	3.76	3.21	2.87		
				040	41.6	32.5	30.8	27.3	24.4	22.4	20.0	17.1	15.2	13.0	
				050	67.0	53.7	50.8	45.0	40.3	36.9	33.0	28.1	25.1	21.4	
				063	129	122	122	116	103	95	85	72	65	55	
				080	431	301	285	252	226	207	185	157	140	119	
	110			1270	847	802	710	636	583	520	443	395	333		
	140			2230	1340	1270	1130	1010	920	820	700	620	520		
Parallel cam drive	180	4270	2920	2760	2450	2190	2000	1790	1520	1340	1100				
	250	10400	4680	4420	3910	3500	3200	2850	2390	2080	1620				
	Option	8	90	45	032	1.39	0.76	0.67	0.57	0.50	0.46	0.39	0.30		
				60	032	1.39	0.89	0.79	0.68	0.60	0.55	0.48	0.39	0.32	
				025	2.13	1.31	1.16	0.99	0.89	0.81	0.72	0.61	0.53		
				032	4.77	2.95	2.63	2.24	2.00	1.83	1.63	1.37	1.19		
				040	10.9	7.77	7.29	7.03	6.84	6.70	6.51	5.52	4.86	3.92	
				050	50.1	30.8	27.4	23.4	20.8	19.1	17.0	14.2	12.4	9.6	
063				85.1	51.6	45.9	39.1	34.9	31.8	28.2	23.4	20.0	14.4		
080				164	117	110	101	90	82	73	61	52	38		
Option	110	359	257	239	203	181	165	145	117	96	57				
	140	950	520	461	392	347	315	273	211	157					
	180	2100	1050	930	790	690	620	530	370	220					
	250	4150	2180	1930	1610	1400	1220	970	480						
	025	2.13	1.49	1.35	1.16	1.03	0.95	0.84	0.71	0.63					
	032	4.77	3.35	3.05	2.60	2.33	2.13	1.90	1.61	1.42					
	040	30.6	20.0	18.2	15.5	13.9	12.7	11.3	9.6	8.6	7.2				
	050	50.1	34.7	31.6	27.0	24.1	22.0	19.7	16.7	14.7	12.0				
Option	063	85.1	58.3	53.0	45.2	40.4	37.0	32.9	27.7	24.2	19.2				
	080	242	174	158	135	120	110	98	83	73	58				
	110	591	354	322	274	245	224	198	165	142	105				
	140	1160	745	677	577	514	469	414	340	285	189				
	180	2100	1190	1080	920	820	740	650	510	390					
	250	4150	2470	2230	1890	1660	1490	1270	890	520					

● RGS straight shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)							
				Input shaft rotational speed (rpm)							
				30	60	90	120	150	200	300	400 600
8	150	025	2.13	1.60	1.48	1.27	1.13	1.04	0.93	0.79	0.70
		032	4.77	3.59	3.34	2.85	2.54	2.33	2.08	1.77	1.57
		040	30.6	21.3	19.8	16.9	15.1	13.8	12.4	10.5	9.4 7.9
		050	50.1	37.1	34.4	29.4	26.2	24.0	21.4	18.2	16.2 13.5
		063	85.1	62.3	57.8	49.4	44.1	40.4	36.0	30.5	26.9 22.0
		080	242	186	172	147	131	120	107	91	80 66
		110	591	378	351	299	267	244	217	183	160 126
		140	1160	798	740	631	563	514	457	381	328 246
		180	2860	1580	1460	1250	1110	1010	890	730	610 390
		250	5840	3680	3410	2900	2570	2340	2040	1600	1240
	180	025	2.13	1.67	1.57	1.34	1.20	1.10	0.98	0.84	0.74
		032	4.77	3.75	3.54	3.02	2.70	2.47	2.21	1.88	1.67
		040	30.6	22.2	21.0	17.9	16.0	14.7	13.1	11.2	10.0 8.4
		050	50.1	38.5	36.4	31.0	27.7	25.4	22.7	19.3	17.2 14.4
		063	85.1	64.9	61.2	52.2	46.7	42.8	38.2	32.4	28.7 23.9
		080	242	194	183	156	139	128	114	97	86 71
		110	738	513	484	413	369	338	301	255	225 184
		140	1640	1040	980	830	740	680	610	510	450 350
		180	2860	1640	1550	1320	1180	1080	950	790	680 490
		250	5840	3830	3610	3070	2730	2490	2190	1780	1450 860
	210	025	2.13	1.72	1.63	1.40	1.25	1.15	1.03	0.87	0.78
		032	4.77	3.85	3.65	3.14	2.81	2.58	2.30	1.96	1.75
		040	30.6	22.8	21.6	18.6	16.6	15.3	13.6	11.6	10.4 8.8
		050	50.1	39.5	37.4	32.3	28.8	26.4	23.6	20.1	17.9 15.1
		063	85.1	66.6	63.0	54.4	48.6	44.5	39.7	33.8	30.0 25.1
		080	242	199	188	162	145	133	119	101	90 75
		110	738	527	498	430	384	352	314	266	236 196
		140	1640	1060	1010	870	780	710	630	540	470 380
		180	2860	1690	1600	1380	1230	1120	1000	840	730 560
		250	5840	3930	3720	3200	2850	2600	2300	1890	1590 1080
	240	025	2.13	1.75	1.66	1.45	1.29	1.18	1.06	0.90	0.80
		032	4.77	3.92	3.71	3.24	2.90	2.66	2.37	2.02	1.80
		040	30.6	23.2	22.0	19.2	17.2	15.7	14.0	12.0	10.7 9.1
		050	50.1	40.2	38.1	33.2	29.7	27.2	24.3	20.7	18.5 15.6
		063	85.1	67.8	64.2	56.0	50.0	45.9	41.0	34.9	31.0 26.1
		080	242	202	191	167	149	137	122	104	93 78
		110	738	536	507	443	396	362	323	275	244 204
		140	1640	1080	1030	900	800	730	650	550	490 400
		180	2860	1720	1630	1420	1270	1160	1030	870	760 600
		250	5840	4000	3780	3300	2940	2680	2380	1980	1690 1230
	270	025	2.13	1.77	1.68	1.48	1.32	1.21	1.08	0.92	0.83
		032	4.77	3.97	3.76	3.32	2.97	2.72	2.43	2.07	1.85
		040	30.6	23.5	22.3	19.6	17.6	16.1	14.4	12.3	11.0 9.3
		050	50.1	40.7	38.5	34.0	30.4	27.8	24.9	21.2	18.9 16.0
		063	85.1	68.6	65.0	57.3	51.2	46.9	41.9	35.7	31.8 26.9
		080	262	249	246	217	194	178	159	136	121 102
		110	738	542	513	453	405	371	331	282	251 210
		140	1640	1100	1040	920	820	750	670	570	500 420
		180	2860	1740	1650	1450	1300	1190	1060	890	790 630
		250	5840	4040	3830	3370	3010	2750	2440	2040	1770 1340

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive

Option

Output torque table

Index series

● RGIS straight shaft (1 dwell)

Cam curve/MS

Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
						Input shaft rotational speed (rpm)									
						30	60	90	120	150	200	300	400	600	
Compact	Standard	8	300	025	2.89	2.43	2.30	2.03	1.83	1.68	1.50	1.28	1.14		
				032	4.77	4.01	3.80	3.36	3.02	2.77	2.48	2.11	1.89		
				040	30.6	23.7	22.5	19.9	17.9	16.4	14.6	12.5	11.2	9.5	
				050	50.1	41.1	38.9	34.4	30.9	28.4	25.3	21.6	19.3	16.4	
				063	85.1	69.2	65.5	58.0	52.2	47.8	42.7	36.4	32.5	27.5	
				080	262	252	249	220	198	181	162	138	123	105	
				110	738	547	518	459	412	378	337	287	256	215	
				140	1640	1110	1050	930	830	760	680	580	520	430	
				180	2860	1760	1660	1470	1320	1210	1080	910	810	660	
				250	5840	4080	3860	3420	3070	2810	2500	2100	1820	1420	
Table	Standard	8	330	025	2.89	2.44	2.31	2.05	1.86	1.70	1.52	1.30	1.16		
				032	4.77	4.04	3.83	3.39	3.07	2.82	2.52	2.15	1.92		
				040	30.6	23.9	22.6	20.0	18.2	16.6	14.9	12.7	11.3	9.7	
				050	50.1	41.3	39.1	34.6	31.4	28.8	25.7	21.9	19.6	16.7	
				063	85.1	69.7	66.0	58.4	53.0	48.6	43.4	37.0	33.0	28.0	
				080	262	253	250	222	201	184	165	140	125	106	
				110	738	551	522	462	419	384	343	292	260	220	
				140	1640	1120	1060	940	850	780	690	590	520	440	
				180	2860	1770	1680	1480	1340	1230	1100	930	820	680	
				250	5840	4110	3890	3440	3120	2850	2540	2140	1870	1480	
Wide angle	Basic	9	90	032	2.70	1.78	1.58	1.35	1.20	1.10	0.98	0.82	0.70		
				040	10.9	8.23	7.74	7.46	7.26	7.11	6.91	5.87	5.18	4.21	
				050	37.9	23.3	20.8	17.7	15.8	14.5	12.9	10.8	9.4	7.3	
				063	63.6	41.1	36.6	31.2	27.8	25.4	22.5	18.6	15.8	11.1	
				080	152	79.2	70.5	60.0	53.5	48.8	43.2	35.5	29.8	20.1	
				110	331	224	199	169	151	137	121	97	79	46	
				140	760	422	375	319	282	256	222	170	125		
				180	1490	895	794	672	591	530	449	313	180		
				250	4150	2310	2040	1720	1490	1320	1070	600			
Parallel cam drive	Option	9	120	025	1.49	1.08	0.99	0.85	0.75	0.69	0.62	0.52	0.46		
				032	2.70	1.98	1.81	1.54	1.38	1.26	1.12	0.95	0.83		
				040	10.9	9.12	8.81	8.49	8.27	8.10	7.88	6.73	5.98	4.99	
				050	37.9	25.8	23.6	20.1	18.0	16.5	14.7	12.4	11.0	8.9	
				063	63.6	45.5	41.6	35.5	31.7	29.0	25.8	21.7	18.9	14.8	
				080	152	87.8	80.3	68.5	61.1	55.9	49.7	41.7	36.2	27.9	
				110	359	302	288	246	219	200	178	149	128	96	
				140	760	469	429	365	325	296	261	212	174	106	
				180	2100	1240	1130	960	860	780	680	540	420	200	
				250	4150	2560	2330	1980	1740	1570	1340	970	610		
Linear and Rack and Pinion drive	Option	9	150	025	2.13	1.65	1.54	1.31	1.17	1.07	0.96	0.81	0.72		
				032	3.66	2.84	2.65	2.26	2.02	1.85	1.65	1.40	1.25		
				040	10.9	9.65	9.51	9.17	8.93	8.75	8.52	7.29	6.49	5.46	
				050	37.9	27.3	25.4	21.7	19.4	17.8	15.9	13.5	12.0	9.9	
				063	85.1	64.1	59.7	51.0	45.5	41.7	37.2	31.5	27.9	22.9	
				080	164	146	144	131	117	108	96	81	72	59	
				110	359	319	311	265	237	217	193	163	142	113	
				140	950	649	605	516	460	420	373	311	268	199	
				180	2100	1310	1220	1040	930	850	750	610	510	330	
				250	5840	3780	3520	2990	2660	2420	2120	1680	1320	620	

● RGIS straight shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
9	180	025	2.13	1.71	1.62	1.38	1.23	1.13	1.01	0.86	0.77	
		032	4.77	3.83	3.63	3.10	2.77	2.54	2.27	1.93	1.72	
		040	10.9	9.98	9.98	9.64	9.39	9.20	8.96	7.67	6.84	5.79
		050	51.5	39.3	37.2	31.8	28.4	26.1	23.3	19.8	17.6	14.9
		063	85.1	66.2	62.7	53.6	47.9	43.9	39.2	33.3	29.5	24.6
		080	164	151	151	138	124	113	101	86	76	64
		110	359	330	326	279	249	228	203	172	152	124
		140	950	671	635	543	485	443	395	332	289	226
		180	2860	1680	1590	1360	1210	1110	980	820	700	520
		250	5840	3910	3690	3150	2810	2560	2250	1840	1520	940
9	210	025	2.13	1.75	1.65	1.43	1.28	1.17	1.05	0.89	0.80	
		032	4.77	3.92	3.71	3.21	2.87	2.63	2.35	2.00	1.79	
		040	30.6	23.2	21.9	19.0	17.0	15.6	13.9	11.9	10.6	9.0
		050	51.5	40.1	38.0	32.9	29.4	27.0	24.1	20.5	18.3	15.5
		063	85.1	67.6	64.0	55.5	49.6	45.5	40.6	34.5	30.7	25.8
		080	164	154	154	143	128	117	105	89	79	67
		110	359	337	333	289	258	236	211	179	158	130
		140	1160	868	822	712	636	582	519	439	386	313
		180	2860	1720	1620	1410	1260	1150	1020	860	750	580
		250	5840	3990	3770	3270	2910	2660	2350	1940	1640	1140
9	240	025	2.13	1.77	1.68	1.47	1.32	1.21	1.08	0.92	0.82	
		032	4.77	3.97	3.76	3.30	2.95	2.70	2.42	2.06	1.84	
		040	30.6	23.5	22.3	19.5	17.5	16.0	14.3	12.2	10.9	9.3
		050	51.5	40.7	38.5	33.8	30.2	27.7	24.7	21.1	18.8	16.0
		063	85.1	68.6	65.0	57.0	50.9	46.7	41.7	35.5	31.6	26.6
		080	164	156	156	147	131	120	108	92	82	69
		110	359	341	338	296	265	242	216	184	163	136
		140	1160	881	834	731	653	598	534	453	400	329
		180	2860	1740	1650	1450	1290	1180	1050	890	780	620
		250	5840	4040	3830	3350	2990	2730	2430	2020	1740	1280
9	270	025	2.13	1.79	1.70	1.50	1.35	1.23	1.10	0.94	0.84	
		032	4.77	4.02	3.80	3.37	3.01	2.76	2.47	2.11	1.88	
		040	30.6	23.7	22.5	19.9	17.8	16.3	14.6	12.5	11.1	9.5
		050	51.5	41.1	38.9	34.4	30.8	28.3	25.3	21.5	19.2	16.3
		063	85.1	69.3	65.6	58.1	52.0	47.7	42.6	36.3	32.3	27.3
		080	164	158	158	150	134	123	110	94	83	71
		110	359	345	341	302	270	248	221	188	167	140
		140	1160	890	843	746	667	611	546	463	411	341
		180	2860	1760	1670	1470	1320	1210	1080	910	800	650
		250	5840	4080	3860	3420	3060	2790	2480	2080	1800	1380
9	300	025	2.13	1.81	1.71	1.51	1.37	1.25	1.12	0.96	0.85	
		032	4.77	4.05	3.83	3.39	3.07	2.81	2.51	2.14	1.91	
		040	30.6	23.9	22.7	20.1	18.1	16.6	14.8	12.7	11.3	9.6
		050	51.5	41.4	39.2	34.7	31.4	28.7	25.7	21.9	19.6	16.6
		063	85.1	69.8	66.1	58.5	52.9	48.5	43.3	36.9	32.9	27.9
		080	164	159	159	151	136	125	112	95	85	72
		110	591	423	400	354	320	293	262	223	199	167
		140	1160	897	849	752	679	622	555	472	419	350
		180	2860	1770	1680	1490	1340	1230	1100	930	820	670
		250	5840	4110	3890	3440	3110	2840	2530	2130	1860	1460

Product specifications

Roller gear cam drive	Table	Standard	Compact
Wide angle	Table	Standard	Compact
Basic	Table	Standard	Compact
Parallel cam drive	Table	Standard	Compact
Option	Table	Standard	Compact

Output torque table

Index series

● RGIS straight shaft (1 dwell)

Cam curve/MS

Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
						Input shaft rotational speed (rpm)									
						30	60	90	120	150	200	300	400	600	
Compact	Standard	9	330	025	2.13	1.82	1.72	1.52	1.39	1.27	1.14	0.97	0.87		
				032	4.77	4.07	3.85	3.41	3.11	2.85	2.55	2.17	1.94		
				040	30.6	24.1	22.8	20.2	18.4	16.9	15.1	12.9	11.5	9.8	
				050	51.5	41.6	39.4	34.9	31.8	29.1	26.0	22.2	19.8	16.9	
				063	85.1	70.2	66.4	58.8	53.6	49.2	43.9	37.4	33.4	28.3	
				080	164	160	160	152	138	127	113	97	86	73	
				110	591	425	402	356	325	298	266	226	202	170	
				140	1160	902	854	756	689	631	564	479	426	357	
				180	2860	1780	1690	1490	1360	1250	1110	940	840	690	
				250	5840	4130	3910	3460	3150	2890	2570	2170	1900	1520	
Table	Wide angle	10	90	032	2.70	1.86	1.66	1.42	1.26	1.16	1.03	0.86	0.75		
				040	10.2	7.93	7.09	6.05	5.40	4.95	4.41	3.72	3.26	2.62	
				050	12.8	10.5	10.0	9.6	9.3	9.1	8.8	7.4	6.4	4.9	
				063	25.3	20.0	18.9	18.2	17.6	17.2	16.6	15.5	13.8	9.8	
				080	108	72.4	64.8	55.2	49.2	44.9	39.7	32.7	27.6	18.9	
				110	225	178	168	154	137	124	110	89	73	43	
				140	462	362	338	287	254	230	200	155	115		
				180	1220	739	658	556	489	438	369	253	138		
				250	3910	1990	1770	1480	1290	1140	920	510			
				025	1.49	1.12	1.03	0.88	0.78	0.72	0.64	0.54	0.48		
Basic	Parallel cam drive	10	120	032	2.70	2.04	1.87	1.60	1.43	1.31	1.16	0.98	0.87		
				040	10.9	9.39	9.11	8.78	8.55	8.38	8.16	6.97	6.19	5.18	
				050	37.9	26.6	24.4	20.8	18.6	17.0	15.2	12.9	11.4	9.3	
				063	63.6	46.9	43.0	36.7	32.8	30.0	26.7	22.5	19.7	15.6	
				080	152	90.4	83.0	70.8	63.2	57.8	51.4	43.2	37.6	29.4	
				110	331	255	234	200	178	163	144	120	104	77	
				140	760	483	444	378	336	307	271	221	184	117	
				180	1490	1020	940	800	710	640	560	440	350	150	
				250	4150	2630	2410	2040	1810	1630	1400	1030	690		
				025	1.49	1.18	1.10	0.94	0.84	0.77	0.69	0.58	0.52		
Option	Linear, Circular, Pick and Place drive	10	150	032	2.70	2.14	2.01	1.71	1.53	1.40	1.25	1.06	0.94		
				040	10.9	9.85	9.75	9.40	9.16	8.97	8.74	7.48	6.66	5.62	
				050	37.9	27.8	26.1	22.3	19.9	18.2	16.3	13.8	12.3	10.2	
				063	63.6	49.1	46.1	39.3	35.1	32.1	28.7	24.3	21.4	17.5	
				080	152	94.8	88.9	75.8	67.7	62.0	55.3	46.7	41.2	33.4	
				110	359	326	319	272	243	222	198	167	147	117	
				140	760	508	476	405	362	330	293	244	209	153	
				180	1490	1080	1010	860	760	700	610	500	410	260	
				250	4150	2760	2580	2190	1950	1770	1540	1210	940	380	
				025	1.49	1.21	1.15	0.99	0.88	0.81	0.72	0.61	0.55		
		10	180	032	3.66	2.99	2.83	2.43	2.17	1.99	1.78	1.51	1.35		
				040	10.9	10.1	10.1	9.8	9.6	9.4	9.1	7.8	7.0	5.9	
				050	37.9	28.6	27.1	23.3	20.8	19.0	17.0	14.5	12.9	10.8	
				063	85.1	67.2	63.6	54.7	48.8	44.8	40.0	34.0	30.2	25.2	
				080	152	97.6	92.3	79.3	70.9	64.9	57.9	49.1	43.5	35.9	
				110	359	335	331	284	254	232	207	176	155	127	
				140	950	682	645	554	495	453	403	339	296	234	
				180	2100	1380	1310	1120	1000	910	810	670	580	430	
				250	4150	2840	2680	2300	2040	1860	1640	1330	1080	630	

● RGIS straight shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
10	210	025	2.13	1.77	1.67	1.46	1.30	1.19	1.07	0.91	0.81	
		032	3.66	3.05	2.88	2.51	2.24	2.06	1.84	1.57	1.39	
		040	10.9	10.3	10.3	10.1	9.9	9.7	9.4	8.1	7.2	6.1
		050	37.9	29.1	27.5	24.0	21.4	19.6	17.5	15.0	13.3	11.2
		063	85.1	68.4	64.8	56.4	50.4	46.2	41.3	35.1	31.2	26.3
		080	164	156	156	146	130	119	106	91	81	68
		110	359	341	337	293	262	240	214	182	161	134
		140	950	694	657	572	511	468	417	353	310	251
		180	2100	1410	1330	1160	1030	950	840	700	610	470
		250	5840	4030	3820	3320	2960	2700	2390	1980	1690	1200
10	240	025	2.13	1.79	1.70	1.49	1.34	1.22	1.09	0.93	0.83	
		032	3.66	3.08	2.92	2.57	2.30	2.11	1.88	1.61	1.43	
		040	10.9	10.4	10.4	10.4	10.1	9.9	9.7	8.3	7.4	6.3
		050	37.9	29.4	27.9	24.6	21.9	20.1	18.0	15.3	13.7	11.6
		063	85.1	69.2	65.5	57.8	51.6	47.3	42.3	36.0	32.1	27.1
		080	164	158	158	149	133	122	109	93	83	70
		110	359	345	341	300	268	246	220	187	166	138
		140	950	703	665	586	524	480	428	363	320	263
		180	2100	1420	1350	1190	1060	970	860	730	640	500
		250	5840	4080	3860	3400	3030	2770	2460	2060	1770	1330
10	270	025	2.13	1.81	1.71	1.51	1.36	1.25	1.12	0.95	0.85	
		032	3.66	3.11	2.94	2.61	2.34	2.15	1.92	1.64	1.46	
		040	10.9	10.5	10.5	10.5	10.3	10.1	9.9	8.4	7.5	6.4
		050	37.9	29.7	28.1	24.9	22.4	20.5	18.3	15.6	13.9	11.8
		063	85.1	69.8	66.1	58.5	52.6	48.2	43.1	36.7	32.7	27.7
		080	164	159	159	151	136	124	111	95	85	72
		110	359	347	344	304	273	251	224	190	169	142
		140	950	709	671	594	534	489	437	371	328	272
		180	2100	1430	1360	1200	1080	990	880	740	650	530
		250	5840	4110	3890	3440	3090	2830	2520	2110	1830	1420
10	300	025	2.13	1.82	1.72	1.52	1.38	1.27	1.13	0.97	0.86	
		032	3.66	3.13	2.96	2.62	2.38	2.18	1.95	1.66	1.49	
		040	10.9	10.6	10.6	10.6	10.5	10.3	10.0	8.6	7.7	6.5
		050	37.9	29.8	28.2	25.0	22.7	20.8	18.6	15.9	14.2	12.0
		063	85.1	70.2	66.5	58.9	53.5	49.0	43.8	37.3	33.3	28.2
		080	164	160	160	152	138	126	113	96	86	73
		110	359	349	346	306	278	255	227	194	172	145
		140	950	713	675	598	543	497	444	377	335	279
		180	2100	1440	1370	1210	1100	1010	900	760	670	550
		250	5840	4140	3920	3460	3140	2880	2560	2160	1880	1490
10	330	025	2.13	1.83	1.73	1.53	1.40	1.29	1.15	0.98	0.88	
		032	3.66	3.14	2.98	2.64	2.41	2.21	1.98	1.69	1.51	
		040	10.9	10.6	10.6	10.6	10.6	10.4	10.1	8.7	7.8	6.6
		050	37.9	30.0	28.4	25.1	23.0	21.1	18.8	16.1	14.3	12.2
		063	85.1	70.5	66.8	59.1	54.2	49.6	44.4	37.8	33.7	28.6
		080	164	161	161	153	140	128	114	98	87	74
		110	359	351	347	307	281	258	230	196	175	148
		140	950	717	679	601	550	504	450	383	340	285
		180	2100	1450	1370	1220	1110	1020	910	770	680	560
		250	5840	4150	3930	3480	3180	2910	2600	2190	1920	1550

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive
Linear Circular

Option

Output torque table

Index series

● RGIS straight shaft (1 dwell)

Cam curve/MS

Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
						Input shaft rotational speed (rpm)									
						30	60	90	120	150	200	300	400	600	
Roller gear cam drive	Compact	90	032	1.89	1.38	1.25	1.06	0.95	0.87	0.77	0.64	0.56			
			040	7.19	6.13	5.53	4.72	4.21	3.86	3.44	2.90	2.54	2.04		
			050	12.8	11.1	10.6	10.2	9.9	9.7	9.4	7.9	6.9	5.4		
			063	25.3	21.2	20.2	19.5	18.9	18.5	17.9	16.8	15.1	11.2		
			080	108	77.0	69.4	59.2	52.8	48.2	42.7	35.5	30.3	21.8		
			110	225	189	180	165	147	134	118	97	81	52		
			140	462	385	363	308	274	249	217	171	133	58		
			180	976	602	541	457	402	360	303	207				
			250	2870	1710	1530	1290	1120	990	800	460				
	Standard	120	032	1.89	1.49	1.38	1.17	1.05	0.96	0.86	0.72	0.64			
			040	7.19	6.49	6.01	5.13	4.58	4.20	3.75	3.18	2.81	2.30		
			050	12.8	11.7	11.5	11.1	10.8	10.6	10.3	8.7	7.7	6.3		
			063	25.3	22.8	22.3	21.4	20.9	20.4	19.8	18.9	17.3	13.8		
			080	108	82.5	76.4	65.2	58.2	53.2	47.4	39.9	34.9	27.5		
			110	225	203	198	181	162	148	131	110	95	72		
			140	462	414	400	341	304	277	245	201	169	112		
			180	976	647	598	508	450	408	354	273	203			
			250	2870	1830	1690	1430	1260	1140	970	700	440			
	Wide angle	150	032	1.89	1.54	1.46	1.24	1.11	1.02	0.91	0.77	0.68			
			040	10.2	9.14	8.64	7.37	6.59	6.04	5.39	4.59	4.09	3.44		
			050	12.8	12.1	12.1	11.6	11.3	11.1	10.8	9.2	8.2	6.8		
			063	25.3	23.6	23.5	22.7	22.1	21.6	21.0	20.1	18.6	15.3		
			080	108	85.5	80.8	68.9	61.6	56.4	50.3	42.6	37.5	30.6		
			110	225	210	209	192	171	157	139	118	103	82		
			140	462	429	424	361	322	294	261	218	188	140		
			180	1220	876	827	704	627	571	504	411	340	213		
			250	3910	2340	2210	1880	1670	1510	1320	1040	810	350		
	Basic	180	032	1.89	1.58	1.49	1.29	1.15	1.06	0.94	0.80	0.71			
			040	10.2	9.30	8.81	7.63	6.82	6.25	5.58	4.76	4.24	3.58		
			050	12.8	12.3	12.3	12.0	11.7	11.5	11.2	9.6	8.5	7.1		
			063	25.3	24.1	24.1	23.5	22.9	22.4	21.8	21.0	19.5	16.2		
			080	108	87.3	82.6	71.5	63.9	58.6	52.3	44.4	39.3	32.5		
			110	331	280	265	230	205	188	168	142	125	103		
			140	760	534	505	437	390	357	318	268	234	184		
			180	1220	894	846	732	652	596	528	437	372	264		
			250	3910	2390	2260	1950	1740	1580	1390	1130	920	550		
	Parallel cam drive	210	032	1.89	1.60	1.51	1.33	1.19	1.09	0.97	0.83	0.74			
			040	10.2	9.40	8.90	7.82	6.99	6.40	5.72	4.88	4.35	3.69		
			050	12.8	12.4	12.4	12.3	12.0	11.8	11.4	9.8	8.7	7.4		
			063	25.3	24.4	24.4	24.2	23.5	23.1	22.5	21.6	20.1	16.8		
			080	108	88.4	83.7	73.5	65.7	60.2	53.7	45.7	40.6	33.9		
			110	331	284	269	236	211	193	172	146	130	107		
			140	760	541	512	449	401	367	327	277	243	196		
			180	1220	906	857	752	671	613	545	455	393	296		
			250	3910	2420	2290	2010	1790	1630	1440	1190	1000	680		
	Option	240	032	1.89	1.61	1.53	1.35	1.21	1.11	0.99	0.84	0.75			
			040	10.2	9.47	8.96	7.94	7.12	6.53	5.83	4.97	4.44	3.77		
			050	12.8	12.5	12.5	12.5	12.2	12.0	11.7	10.0	8.9	7.5		
			063	25.3	24.6	24.6	24.6	24.0	23.5	22.9	22.0	20.5	17.3		
			080	108	89.2	84.4	74.7	67.0	61.4	54.9	46.7	41.5	34.9		
			110	331	286	271	240	215	197	176	150	133	111		
			140	760	545	516	457	410	375	335	284	250	205		
			180	1220	914	865	765	686	627	558	469	408	318		
			250	3910	2440	2310	2040	1830	1670	1480	1230	1050	760		

● RGIS straight shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
12	270	032	1.89	1.62	1.53	1.36	1.23	1.13	1.01	0.86	0.77	
		040	10.9	10.6	10.6	10.6	10.5	10.3	10	8.6	7.6	6.5
		050	19.9	19.5	19.5	19.5	19.3	18.9	18.4	15.9	14.2	12.0
		063	25.3	24.7	24.7	24.7	24.4	23.9	23.3	22.4	20.9	17.7
		080	108	89.7	84.9	75.2	68.2	62.5	55.8	47.5	42.3	35.7
		110	331	288	273	241	219	201	179	152	136	114
		140	760	549	519	460	417	382	341	289	256	212
		180	1220	919	870	770	698	639	569	479	420	335
		250	3910	2450	2320	2050	1860	1700	1510	1260	1090	830
	300	032	2.70	2.33	2.21	1.95	1.79	1.64	1.46	1.25	1.11	
		040	10.9	10.7	10.7	10.7	10.7	10.4	10.2	8.7	7.7	6.6
		050	19.9	19.6	19.6	19.6	19.5	19.1	18.7	16.1	14.4	12.2
		063	63.6	53.2	50.4	44.6	40.8	37.4	33.4	28.5	25.4	21.5
		080	152	103	97	86	79	72	65	55	49	41
		110	331	289	274	242	222	203	182	155	138	116
		140	760	551	522	462	423	387	346	294	261	217
		180	1490	1170	1110	980	900	820	730	620	550	450
		250	4150	2980	2820	2500	2280	2090	1860	1570	1370	1080
	330	032	2.70	2.34	2.21	1.96	1.80	1.66	1.48	1.26	1.13	
		040	10.9	10.7	10.7	10.7	10.7	10.6	10.3	8.8	7.8	6.7
		050	19.9	19.6	19.6	19.6	19.6	19.4	18.9	16.3	14.6	12.4
		063	63.6	53.4	50.5	44.7	41.0	37.9	33.8	28.9	25.7	21.8
		080	152	103	98	86	79	73	65	56	50	42
		110	331	290	275	243	223	206	184	157	140	118
		140	760	553	524	463	425	392	350	298	264	221
		180	1490	1170	1110	980	900	830	740	630	560	460
		250	4150	2990	2830	2510	2300	2120	1880	1590	1390	1120
15	90	080	31.8	28.4	27.3	26.2	25.5	24.9	24.0	22.5	20.0	14.1
		110	143	109	99	85	75	68	60	49	39	23
		140	285	254	244	222	198	179	157	123	96	41
		180	591	523	496	420	370	333	283	201	122	
		250	1630	1130	1020	860	750	660	530	280		
	120	080	80.0	63.7	59.6	50.8	45.4	41.5	37.0	31.1	27.2	21.4
		110	200	130	122	104	92	84	75	62	53	39
		140	285	266	263	240	214	195	172	141	118	78
		180	591	550	536	456	404	367	320	250	191	
		250	2020	1510	1410	1190	1050	950	810	590	390	
	150	080	80.0	65.2	61.7	53.1	47.4	43.4	38.7	32.8	28.9	23.5
		110	200	133	126	108	96	88	78	66	57	45
		140	420	357	338	290	259	237	210	176	151	114
		180	976	688	650	558	497	453	400	326	269	168
		250	2020	1540	1460	1250	1110	1010	880	680	520	190
	180	080	80.0	66.1	62.5	54.7	48.9	44.8	39.9	33.9	30.0	24.8
		110	200	134	127	111	99	91	81	68	60	48
		140	420	362	342	299	267	245	218	183	160	125
		180	976	698	660	576	514	469	416	344	292	207
		250	2020	1560	1480	1290	1150	1040	920	740	600	330
	210	080	80.0	66.6	63.1	55.8	50.0	45.8	40.9	34.8	30.9	25.8
		110	200	135	128	113	101	93	83	70	62	51
		140	420	365	345	306	273	250	223	188	166	133
		180	976	704	666	589	526	481	427	357	308	231
		250	2870	1980	1880	1660	1480	1350	1200	990	830	570

Product specifications

Roller gear cam drive

Wide angle

Basic

Parallel cam drive

Pick and Place drive

Option

Output torque table

Index series

● RGIS straight shaft (1 dwell)

Cam curve/MS

Cam curve/MS															
Product specifications			Index number	Total Index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
							Input shaft rotational speed (rpm)								
							30	60	90	120	150	200	300	400	600
Roller gear cam drive	15	240	080	80.0	67.0	63.4	56.1	50.9	46.6	41.6	35.4	31.5	26.4		
			110	200	136	129	114	103	95	84	72	63	52		
			140	420	367	347	307	278	255	227	193	170	139		
			180	976	708	670	592	536	491	436	366	319	248		
			250	2870	1990	1890	1670	1510	1380	1220	1020	870	640		
	270	080	80.0	67.2	63.6	56.3	51.6	47.3	42.2	36.0	32.0	27.0			
		110	200	136	129	114	105	96	86	73	65	54			
		140	420	368	349	308	282	259	231	196	173	143			
		180	976	710	672	595	544	498	444	374	328	261			
		250	2870	2000	1890	1670	1530	1400	1240	1040	900	690			
	300	080	80.0	67.4	63.8	56.5	51.8	47.9	42.8	36.4	32.5	27.4			
		110	200	137	129	115	105	97	87	74	66	55			
		140	420	369	349	309	284	262	234	199	176	146			
		180	976	712	674	597	547	505	450	380	334	270			
		250	2870	2010	1900	1680	1540	1420	1260	1060	920	720			
	330	080	80.0	67.5	63.9	56.6	51.9	48.4	43.2	36.8	32.8	27.8			
		110	200	137	130	115	105	98	88	75	66	56			
		140	420	370	350	310	284	265	236	201	179	149			
		180	976	714	676	598	548	511	455	385	340	278			
		250	2870	2010	1900	1680	1540	1440	1280	1080	940	750			
Parallel cam drive	16	90	080	31.8	28.7	27.7	26.7	25.9	25.3	24.4	22.9	20.5	14.7		
			110	143	110	101	86	76	70	61	50	41	24		
			140	305	267	257	234	208	189	164	128	97.1	34.2		
			180	591	530	504	427	377	339	290	209	132			
			250	1630	1140	1040	870	760	670	540	300				
	120	080	31.8	30.0	29.7	28.6	27.8	27.2	26.4	25.1	22.9	18.0			
		110	143	115	107	92	82	75	66	55	47	34			
		140	285	268	266	243	216	197	174	143	120	81			
		180	591	554	542	461	409	372	325	256	198				
		250	1630	1190	1110	940	830	750	640	450	280				
	150	080	31.8	30.6	30.6	29.8	29.0	28.4	27.6	26.4	24.3	19.8			
		110	143	117	110	95	85	78	69	58	51	39			
		140	285	274	274	253	226	207	183	153	132	98			
		180	591	567	560	482	429	391	345	280	231	142			
		250	2020	1550	1470	1260	1120	1010	890	700	540	210			
	180	080	80.0	66.3	62.8	55.1	49.2	45.1	40.2	34.1	30.3	25.1			
		110	143	118	112	98	87	80	71	60	53	42			
		140	285	277	277	261	233	213	189	159	139	109			
		180	591	574	567	497	443	404	358	296	251	176			
		250	2020	1570	1480	1300	1150	1050	920	750	610	350			
210	080	80.0	66.8	63.2	56.0	50.3	46.0	41.1	35.0	31.1	26.0				
	110	200	136	128	114	102	93	83	71	62	51				
	140	285	279	279	265	238	218	194	164	144	116				
	180	591	578	571	505	453	414	368	307	264	198				
	250	2020	1580	1490	1320	1180	1080	950	780	660	440				

● RGIS straight shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
16	240	080	80.0	67.1	63.5	56.2	51.1	46.8	41.8	35.6	31.7	26.6
		110	200	136	129	114	104	95	85	72	64	53
		140	285	281	281	266	242	222	198	167	148	121
		180	591	581	574	508	461	422	375	315	274	212
		250	2020	1590	1500	1330	1200	1100	970	810	690	490
	270	080	80.0	67.3	63.7	56.4	51.7	47.5	42.4	36.1	32.2	27.1
		110	200	137	129	114	105	96	86	73	65	54
		140	285	282	282	267	245	225	201	170	151	124
		180	976	712	674	596	546	501	446	376	330	264
		250	2020	1590	1510	1330	1220	1120	990	830	710	530
	300	080	80.0	67.5	63.9	56.6	51.9	48.1	42.9	36.6	32.6	27.6
		110	200	137	130	115	105	97	87	74	66	55
		140	285	282	282	268	246	228	203	173	153	127
		180	976	714	675	598	548	507	452	382	336	273
		250	2020	1600	1510	1340	1220	1130	1010	840	730	560
	330	080	80.0	67.6	64.0	56.7	52.0	48.6	43.4	37.0	33.0	27.9
		110	200	137	130	115	105	98	88	75	67	56
		140	285	283	283	268	246	230	205	175	155	129
		180	976	715	677	599	549	513	457	387	342	280
		250	2020	1600	1510	1340	1230	1140	1020	860	750	590

Product specifications

Option	Pick and Place drive Linear Circular	Parallel cam drive			Roller gear cam drive		
		Basic	Wide angle	Table	Standard	Compact	

Output torque table

Index series

● RGIS straight shaft (2 dwell)

Cam curve/MS

Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
						Input shaft rotational speed (rpm)									
						15	30	45	60	75	100	150	200	300	
Compact	Roller gear cam drive	120	025	1.49	1.04	0.98	0.83	0.74	0.68	0.61	0.52	0.46	0.38		
			032	2.70	1.90	1.78	1.52	1.36	1.25	1.11	0.94	0.84	0.69		
			040	16.1	13.0	12.9	12.4	12.1	11.9	11.6	10.0	8.8	7.5		
			050	19.9	16.2	16.1	15.5	15.1	14.8	14.4	13.8	12.8	10.7		
			063	63.6	43.9	41.1	35.1	31.4	28.7	25.6	21.7	19.1	15.6		
			080	164	133	132	120	108	98.5	87.9	74.6	66.0	54.6		
			110	359	291	285	243	217	199	177	149	131	105		
			140	950	589	553	471	420	384	341	285	246	185		
			180	2860	1480	1380	1180	1050	960	850	700	590	410		
			250	5840	3450	3230	2750	2440	2220	1950	1560	1240	630		
Standard	Roller gear cam drive	150	025	2.13	1.60	1.51	1.31	1.17	1.07	0.96	0.81	0.73	0.61		
			032	4.77	3.59	3.40	2.94	2.63	2.41	2.15	1.83	1.63	1.38		
			040	30.6	21.3	20.2	17.4	15.6	14.3	12.8	10.9	9.7	8.2		
			050	50.1	37.1	35.1	30.3	27.1	24.8	22.2	18.9	16.8	14.2		
			063	85.1	62.3	59.0	50.9	45.5	41.7	37.2	31.7	28.1	23.5		
			080	164	142	142	131	117	108	96	82	73	61		
			110	591	378	358	309	276	253	225	191	169	139		
			140	1160	798	755	652	582	533	475	401	352	283		
			180	2860	1580	1490	1290	1150	1050	930	780	680	510		
			250	5840	3680	3480	3000	2670	2440	2160	1770	1490	990		
Table	Roller gear cam drive	180	025	2.13	1.67	1.58	1.39	1.24	1.14	1.01	0.87	0.77	0.65		
			032	4.77	3.75	3.55	3.11	2.78	2.55	2.28	1.94	1.73	1.47		
			040	30.6	22.2	21.0	18.5	16.5	15.1	13.5	11.5	10.3	8.8		
			050	50.1	38.5	36.5	32.0	28.6	26.2	23.4	20.0	17.8	15.1		
			063	119	74.0	70.1	61.5	55.0	50.4	45.0	38.3	34.1	28.8		
			080	242	194	183	161	144	132	118	100	89	75		
			110	591	393	372	327	292	267	239	203	180	150		
			140	1160	832	787	691	617	565	504	427	378	310		
			180	2860	1640	1560	1370	1220	1120	990	840	730	580		
			250	5840	3830	3620	3180	2830	2590	2300	1910	1640	1210		
Wide angle	Roller gear cam drive	210	025	2.89	2.33	2.20	1.95	1.75	1.60	1.43	1.22	1.09	0.93		
			032	4.77	3.85	3.65	3.23	2.90	2.66	2.38	2.03	1.81	1.54		
			040	30.6	22.8	21.6	19.1	17.2	15.7	14.1	12.0	10.7	9.1		
			050	50.1	39.5	37.4	33.1	29.8	27.3	24.4	20.8	18.6	15.8		
			063	119	76.0	71.9	63.7	57.2	52.4	46.8	39.9	35.6	30.1		
			080	242	199	188	166	150	137	122	104	93	79		
			110	591	403	382	338	304	278	249	212	188	158		
			140	1640	1060	1010	890	800	730	650	560	490	410		
			180	2860	1690	1600	1420	1270	1160	1040	880	770	630		
			250	5840	3930	3720	3290	2950	2700	2400	2010	1750	1350		
Basic	Parallel cam drive	240	025	2.89	2.37	2.24	1.99	1.81	1.66	1.48	1.26	1.13	0.96		
			032	4.77	3.92	3.71	3.29	2.99	2.74	2.45	2.09	1.87	1.59		
			040	30.6	23.2	22.0	19.5	17.7	16.2	14.5	12.4	11.1	9.4		
			050	50.1	40.2	38.1	33.7	30.6	28.1	25.1	21.4	19.1	16.3		
			063	119	77.3	73.2	64.8	58.9	54.0	48.2	41.1	36.7	31.1		
			080	242	202	191	169	154	141	126	108	96	81		
			110	591	411	389	344	313	287	256	218	194	163		
			140	1640	1080	1030	910	830	760	680	570	510	430		
			180	2860	1720	1630	1440	1310	1200	1070	910	800	660		
			250	5840	4000	3780	3350	3040	2780	2480	2090	1830	1450		
Option	Parallel cam drive	270	025	2.89	2.40	2.27	2.01	1.85	1.70	1.52	1.29	1.16	0.98		
			032	4.77	3.97	3.76	3.33	3.06	2.81	2.51	2.14	1.91	1.63		
			040	30.6	23.5	22.3	19.7	18.1	16.6	14.8	12.7	11.3	9.6		
			050	50.1	40.7	38.5	34.1	31.3	28.7	25.7	21.9	19.6	16.6		
			063	119	78.3	74.1	65.6	60.2	55.3	49.4	42.1	37.6	31.9		

Output torque table

Index series

● RGIS straight shaft (2 dwell)

Cam curve/MS

Product specifications		Cam curve/MS														
		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)										
						Input shaft rotational speed (rpm)										
						15	30	45	60	75	100	150	200	300		
Compact	Standard	Table	Roller gear cam drive	18	210	025	2.13	1.75	1.65	1.46	1.32	1.21	1.08	0.92	0.82	0.70
						032	4.77	3.92	3.71	3.28	2.96	2.72	2.43	2.07	1.85	1.57
						040	30.6	23.2	21.9	19.4	17.5	16.1	14.4	12.3	11.0	9.3
						050	51.5	40.1	38.0	33.6	30.4	27.8	24.9	21.2	18.9	16.1
						063	85.1	67.6	64.0	56.7	51.2	46.9	41.9	35.7	31.9	27.0
						080	164	154	154	146	132	121	108	92	82	70
						110	591	410	388	343	310	284	254	216	192	162
						140	1160	868	822	727	657	602	537	456	405	337
						180	2860	1720	1620	1440	1300	1190	1060	900	790	650
						250	5840	3990	3770	3340	3010	2760	2450	2060	1800	1400
Wide angle	Basic	Parallel cam drive	18	240	025	2.13	1.77	1.68	1.49	1.36	1.25	1.11	0.95	0.85	0.72	
					032	4.77	3.97	3.76	3.33	3.05	2.79	2.49	2.13	1.90	1.62	
					040	30.6	23.5	22.3	19.7	18.0	16.5	14.8	12.6	11.3	9.6	
					050	51.5	40.7	38.5	34.1	31.2	28.6	25.5	21.8	19.5	16.6	
					063	85.1	68.6	65.0	57.5	52.6	48.2	43.0	36.7	32.7	27.8	
					080	164	156	156	148	136	124	111	95	85	72	
					110	591	416	393	348	318	292	261	222	198	167	
					140	1160	881	834	738	675	618	552	470	417	350	
					180	2860	1740	1650	1460	1330	1220	1090	920	820	680	
					250	5840	4040	3830	3390	3090	2830	2520	2130	1870	1490	
Option	Linear	Circular	Flex and Photo drive	18	270	025	2.13	1.79	1.70	1.50	1.38	1.27	1.14	0.97	0.87	0.74
						032	4.77	4.02	3.80	3.37	3.09	2.85	2.55	2.17	1.94	1.65
						040	30.6	23.7	22.5	19.9	18.3	16.9	15.1	12.9	11.5	9.8
						050	51.5	41.1	38.9	34.4	31.6	29.2	26.1	22.2	19.9	16.9
						063	85.1	69.3	65.6	58.1	53.3	49.2	43.9	37.5	33.5	28.4
						080	164	158	158	150	137	127	113	97	86	73
						110	591	420	397	352	323	298	266	227	202	171
						140	1160	890	843	746	684	631	564	480	427	360
						180	2860	1760	1670	1470	1350	1250	1110	950	840	700
						250	5840	4080	3870	3420	3140	2890	2580	2180	1920	1560
Option	Linear	Circular	Flex and Photo drive	20	90	025	2.13	1.81	1.71	1.51	1.39	1.29	1.16	0.99	0.88	0.75
						032	4.77	4.05	3.83	3.39	3.11	2.90	2.59	2.21	1.98	1.68
						040	30.6	23.9	22.7	20.1	18.4	17.1	15.3	13.1	11.7	10.0
						050	51.5	41.4	39.2	34.7	31.8	29.7	26.5	22.6	20.2	17.2
						063	85.1	69.8	66.1	58.5	53.7	50.0	44.7	38.1	34.0	29.0
						080	164	159	159	151	139	129	115	98	88	75
						110	591	423	400	354	325	303	271	231	206	175
						140	1160	897	849	752	689	642	574	489	435	368
						180	2860	1770	1680	1490	1360	1270	1130	960	860	720
						250	5840	4110	3890	3450	3160	2940	2620	2220	1970	1610
Option	Linear	Circular	Flex and Photo drive	20	90	025	2.13	1.82	1.72	1.52	1.40	1.31	1.17	1.00	0.90	0.76
						032	4.77	4.07	3.85	3.41	3.13	2.93	2.63	2.24	2.01	1.71
						040	30.6	24.1	22.8	20.2	18.5	17.3	15.5	13.3	11.9	10.1
						050	51.5	41.6	39.4	34.9	32.0	29.9	26.9	22.9	20.5	17.5
						063	85.1	70.2	66.5	58.8	54.0	50.5	45.3	38.7	34.5	29.4
						080	164	160	160	152	139	130	117	100	89	76
						110	591	425	402	356	327	306	274	234	209	177
						140	1160	902	854	756	693	648	582	496	442	374
						180	2860	1780	1690	1490	1370	1280	1150	980	870	730
						250	5840	4140	3910	3460	3180	2970	2660	2260	2000	1660
Option	Linear	Circular	Flex and Photo drive	20	90	040	10.2	7.93	7.32	6.25	5.58	5.11	4.56	3.87	3.43	2.85
						050	19.9	15.8	15.5	14.9	14.5	14.2	13.8	11.9	10.5	8.6
						063	25.3	20.0	19.5	18.8	18.3	17.9	17.3	16.5	15.1	11.8
						080	108	72.4	66.8	57.0	50.9	46.6	41.4	34.8	30.3	23.5
						110	225	178	174	159	142	129	115	96	82	61

● RGIS straight shaft (2 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				15	30	45	60	75	100	150	200	300
20	90	140	462	362	349	297	265	241	213	174	144	90
		180	1220	739	681	579	513	465	405	315	237	
		250	3910	1990	1830	1550	1370	1230	1050	760	480	
	120	025	1.49	1.12	1.06	0.90	0.81	0.74	0.66	0.56	0.50	0.42
		032	2.70	2.04	1.93	1.65	1.47	1.35	1.20	1.02	0.91	0.76
		040	10.9	9.39	9.39	9.06	8.83	8.65	8.43	7.21	6.43	5.43
		050	37.9	26.6	25.1	21.5	19.2	17.6	15.7	13.4	11.9	9.9
		063	63.6	46.9	44.4	37.9	33.9	31.0	27.7	23.5	20.8	17.1
		080	152	90.4	85.6	73.1	65.3	59.8	53.3	45.2	39.9	32.7
		110	331	255	241	206	184	168	150	127	111	89
		140	760	483	457	391	348	319	283	237	205	155
		180	1490	1030	970	830	740	670	590	490	410	280
		250	4150	2640	2490	2120	1890	1720	1500	1200	960	490
	150	025	1.49	1.18	1.11	0.97	0.87	0.80	0.71	0.61	0.54	0.46
		032	3.66	2.90	2.75	2.40	2.14	1.96	1.75	1.49	1.33	1.12
		040	10.9	9.85	9.85	9.70	9.45	9.26	9.02	7.73	6.90	5.85
		050	37.9	27.8	26.3	23.0	20.5	18.8	16.8	14.3	12.8	10.8
		063	63.6	49.2	46.5	40.6	36.2	33.2	29.6	25.2	22.4	18.7
		080	152	94.9	89.8	78.3	69.9	64.1	57.2	48.6	43.1	35.9
		110	359	326	322	281	251	230	205	174	154	128
		140	760	508	481	419	374	342	305	257	225	180
		180	2100	1340	1270	1110	990	900	800	670	580	450
		250	4150	2760	2610	2270	2020	1850	1630	1340	1120	750
	180	025	1.49	1.21	1.15	1.02	0.91	0.83	0.74	0.63	0.57	0.48
		032	3.66	2.99	2.83	2.51	2.24	2.05	1.84	1.57	1.40	1.18
		040	10.9	10.1	10.1	10.1	9.9	9.7	9.4	8.1	7.2	6.1
		050	37.9	28.6	27.1	24.0	21.4	19.7	17.6	15.0	13.4	11.3
		063	63.6	50.5	47.8	42.4	37.9	34.7	31.0	26.4	23.5	19.8
		080	152	97.6	92.4	81.8	73.1	67.0	59.9	50.9	45.3	38.1
		110	359	335	331	293	262	240	214	182	162	136
		140	950	682	646	571	511	468	417	354	313	258
		180	2100	1380	1310	1160	1030	950	840	710	620	500
		250	4150	2840	2680	2370	2120	1940	1720	1430	1230	900
	210	025	2.13	1.77	1.67	1.48	1.34	1.23	1.10	0.94	0.84	0.71
		032	3.66	3.05	2.88	2.55	2.32	2.12	1.90	1.62	1.44	1.23
		040	10.9	10.3	10.3	10.3	10.2	10.0	9.7	8.4	7.5	6.3
		050	37.9	29.1	27.5	24.4	22.1	20.3	18.1	15.5	13.8	11.7
		063	63.6	51.4	48.7	43.1	39.1	35.8	32.0	27.3	24.3	20.6
		080	164	156	156	148	134	123	110	94	84	71
		110	359	341	337	298	270	248	221	188	168	141
		140	950	695	657	582	528	484	432	367	325	271
		180	2100	1410	1330	1180	1070	980	870	740	650	530
		250	4150	2890	2730	2420	2190	2000	1780	1490	1300	1000
	240	025	2.13	1.79	1.70	1.50	1.38	1.26	1.13	0.96	0.86	0.73
		032	3.66	3.08	2.92	2.58	2.37	2.18	1.94	1.66	1.48	1.26
		040	10.9	10.4	10.4	10.4	10.4	10.2	10.0	8.6	7.6	6.5
		050	37.9	29.4	27.9	24.7	22.6	20.8	18.5	15.8	14.1	12.0
		063	63.6	52.0	49.3	43.6	40.0	36.7	32.8	28.0	24.9	21.1
		080	164	158	158	150	137	126	113	96	86	73
		110	359	345	341	302	277	254	227	193	172	145
		140	950	703	666	589	540	496	443	376	335	280
		180	2100	1420	1350	1190	1090	1000	890	760	670	550
		250	5840	4080	3860	3420	3130	2870	2560	2160	1900	1530

Product specifications

Compact

Standard

Roller gear cam drive

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive

Linear

Option

Circular

Output torque table

Index series

● RGIS straight shaft (2 dwell)

Cam curve/MS

Cam curve/MS																
Product specifications			Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
							Input shaft rotational speed (rpm)									
							15	30	45	60	75	100	150	200	300	
Compact	Standard	Table	Roller gear cam drive	20	270	025	2.13	1.81	1.71	1.51	1.39	1.29	1.15	0.98	0.88	0.75
						032	3.66	3.11	2.94	2.61	2.39	2.22	1.98	1.69	1.51	1.29
						040	10.9	10.5	10.5	10.5	10.5	10.4	10.2	8.7	7.8	6.6
						050	37.9	29.7	28.1	24.9	22.8	21.1	18.9	16.1	14.4	12.3
						063	63.6	52.5	49.7	44.0	40.3	37.4	33.4	28.5	25.4	21.6
						080	164	159	159	151	139	128	115	98	87	74
						110	359	347	344	304	279	259	231	197	176	149
						140	950	709	671	594	545	505	451	384	342	288
						180	2100	1430	1360	1200	1100	1020	910	770	690	570
						250	5840	4110	3890	3450	3160	2930	2610	2210	1950	1590
Basic	Wide angle	Table	Roller gear cam drive	20	300	025	2.13	1.82	1.72	1.52	1.40	1.31	1.17	1.00	0.89	0.76
						032	3.66	3.13	2.96	2.62	2.41	2.25	2.01	1.72	1.53	1.31
						040	10.9	10.6	10.6	10.6	10.6	10.6	10.3	8.9	7.9	6.7
						050	37.9	29.8	28.2	25.0	22.9	21.5	19.2	16.4	14.6	12.5
						063	85.1	70.2	66.5	58.9	54.0	50.5	45.2	38.5	34.4	29.3
						080	164	160	160	152	139	130	117	99	89	76
						110	359	349	346	306	281	262	235	200	179	151
						140	950	713	675	598	548	513	459	391	348	294
						180	2100	1440	1370	1210	1110	1040	930	790	700	590
						250	5840	4140	3920	3470	3180	2970	2650	2250	1990	1640
Basic	Wide angle	Table	Roller gear cam drive	20	330	025	2.13	1.83	1.73	1.53	1.41	1.31	1.19	1.01	0.90	0.77
						032	3.66	3.14	2.98	2.64	2.42	2.26	2.04	1.74	1.56	1.33
						040	10.9	10.6	10.6	10.6	10.6	10.6	10.5	9.0	8.0	6.8
						050	37.9	30.0	28.4	25.1	23.0	21.5	19.4	16.6	14.8	12.6
						063	85.1	70.5	66.8	59.1	54.2	50.7	45.8	39.1	34.9	29.7
						080	164	161	161	153	140	131	118	101	90	77
						110	359	351	347	307	282	264	238	203	181	154
						140	950	717	679	601	551	515	465	396	353	299
						180	2100	1450	1370	1220	1110	1040	940	800	710	600
						250	5840	4160	3930	3480	3190	2980	2690	2280	2020	1680
Option	Linear	Circular	Peak and Paces drive	24	90	032	1.89	1.38	1.29	1.10	0.98	0.90	0.80	0.68	0.60	0.48
						040	7.19	6.13	5.71	4.87	4.35	3.99	3.56	3.02	2.68	2.22
						050	12.8	11.1	10.9	10.5	10.2	10.0	9.7	8.3	7.3	6.0
						063	25.3	21.3	20.9	20.1	19.6	19.2	18.6	17.7	16.3	13.0
						080	80.0	57.6	53.6	45.7	40.8	37.3	33.2	27.9	24.2	18.8
						110	200	119	110	94	84	77	68	56	48	34
						140	462	386	375	319	284	260	230	189	159	108
						180	976	603	560	476	422	382	333	258	194	
						250	2870	1710	1590	1350	1190	1070	920	670	440	
						Option	Linear	Circular	Peak and Paces drive	24	120	032	1.89	1.49	1.41	1.21
040	7.19	6.49	6.15	5.30	4.73							4.34	3.87	3.30	2.93	2.50
050	12.8	11.8	11.7	11.4	11.1							10.9	10.6	9.1	8.1	6.7
063	25.3	22.8	22.8	22.1	21.6							21.1	20.5	19.7	18.2	15.1
080	108	82.5	78.1	67.3	60.1							55.0	49.1	41.6	36.8	30.3
110	225	203	203	187	167							153	136	115	101	82
140	462	414	409	352	314							287	256	214	186	143
180	1220	844	799	687	612							559	494	407	342	232
250	3910	2260	2140	1840	1630							1490	1310	1050	840	450

● RGIS straight shaft (2 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				15	30	45	60	75	100	150	200	300
24	150	032	2.70	2.21	2.09	1.84	1.64	1.50	1.34	1.14	1.02	0.86
		040	10.2	9.14	8.66	7.61	6.80	6.23	5.57	4.75	4.23	3.59
		050	12.8	12.1	12.1	12.0	11.7	11.5	11.2	9.5	8.5	7.2
		063	63.6	50.5	47.8	42.1	37.6	34.4	30.8	26.2	23.3	19.5
		080	108	85.5	81.0	71.2	63.6	58.2	52.0	44.2	39.3	32.8
		110	225	210	210	198	177	162	144	123	108	90
		140	462	429	424	373	333	305	272	229	201	162
		180	1220	876	829	728	649	594	527	440	380	286
	250	3910	2340	2220	1940	1730	1580	1400	1150	970	650	
	180	032	2.70	2.25	2.13	1.89	1.70	1.56	1.40	1.19	1.06	0.90
		040	10.2	9.30	8.81	7.80	7.03	6.45	5.76	4.91	4.39	3.73
		050	12.8	12.3	12.3	12.3	12.1	11.8	11.5	9.9	8.8	7.5
		063	63.6	51.6	48.8	43.2	39.0	35.7	31.9	27.2	24.2	20.4
		080	108	87.3	82.6	73.2	66.0	60.5	54.0	46.0	40.9	34.4
		110	225	214	214	203	183	168	150	128	113	95
		140	462	438	434	384	346	317	283	240	212	174
		180	1490	1130	1070	950	850	780	700	590	510	410
	250	3910	2390	2260	2000	1800	1650	1460	1220	1050	770	
	210	032	2.70	2.28	2.16	1.91	1.75	1.61	1.43	1.22	1.09	0.93
		040	10.2	9.40	8.90	7.88	7.21	6.61	5.90	5.04	4.50	3.83
		050	12.8	12.4	12.4	12.4	12.4	12.1	11.8	10.1	9.0	7.7
		063	63.6	52.2	49.5	43.8	40.0	36.7	32.8	28.0	24.9	21.1
		080	152	101	95	85	77	71	63	54	48	41
		110	225	217	217	206	188	173	154	131	117	98
140		760	541	512	453	414	380	339	288	255	212	
180		1490	1150	1080	960	880	800	720	610	530	440	
250	4150	2930	2770	2450	2240	2050	1820	1530	1340	1050		
240	032	2.70	2.30	2.18	1.93	1.77	1.64	1.47	1.25	1.12	0.95	
	040	10.2	9.47	8.96	7.94	7.28	6.73	6.02	5.14	4.59	3.91	
	050	12.8	12.5	12.5	12.5	12.5	12.4	12.0	10.3	9.2	7.8	
	063	63.6	52.7	49.9	44.2	40.5	37.5	33.5	28.5	25.5	21.6	
	080	152	102	96	85	78	72	65	55	49	42	
	110	225	219	219	208	190	176	157	134	119	101	
	140	760	545	516	457	419	388	346	294	262	219	
	180	1490	1160	1090	970	890	820	730	620	550	450	
250	4150	2950	2800	2470	2270	2090	1870	1580	1380	1110		
270	032	2.70	2.32	2.20	1.94	1.78	1.67	1.49	1.27	1.14	0.97	
	040	10.2	9.51	9.01	7.97	7.31	6.84	6.11	5.22	4.66	3.97	
	050	37.9	29.9	28.3	25.1	23.0	21.5	19.2	16.4	14.7	12.5	
	063	63.6	53.0	50.2	44.4	40.7	38.1	34.0	29.0	25.9	22.0	
	080	152	102	97	86	79	74	66	56	50	42	
	110	225	220	220	209	192	179	160	136	122	103	
	140	760	549	520	460	422	394	352	300	267	224	
	180	1490	1160	1100	970	890	840	750	630	560	470	
250	4150	2970	2810	2490	2280	2130	1900	1610	1420	1150		
300	032	2.70	2.33	2.21	1.95	1.79	1.68	1.51	1.29	1.15	0.98	
	040	10.2	9.55	9.04	8.00	7.34	6.86	6.19	5.29	4.72	4.02	
	050	37.9	30.1	28.5	25.2	23.1	21.6	19.5	16.6	14.9	12.7	
	063	63.6	53.2	50.4	44.6	40.9	38.3	34.5	29.4	26.3	22.4	
	080	152	103	97	86	79	74	67	57	51	43	
	110	331	289	274	242	222	208	188	160	143	121	
	140	760	551	522	462	424	396	357	304	271	229	
	180	1490	1170	1110	980	900	840	760	640	570	480	
250	4150	2980	2820	2500	2290	2140	1930	1630	1440	1190		

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Option

Pick and Place drive

Linear

Circular

● RGIS straight shaft (2 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				15	30	45	60	75	100	150	200	300
32	90	080	31.8	28.7	28.6	27.6	26.8	26.2	25.4	24.2	22.2	17.5
		110	143	110	104	89	79	72	64	53	46	34
		140	285	257	256	234	209	190	168	139	117	81
		180	591	531	522	444	394	358	313	248	195	90
		250	1630	1150	1080	910	810	730	620	450	290	
	120	080	31.8	30.0	30.0	29.5	28.7	28.1	27.4	26.2	24.2	19.9
		110	143	115	108	95	84	77	69	58	51	40
		140	285	269	268	251	224	205	182	153	133	102
		180	591	555	548	477	425	388	343	282	237	159
		250	2020	1520	1440	1250	1110	1010	890	710	570	290
	150	080	31.8	30.6	30.6	30.6	30.0	29.3	28.6	27.4	25.5	21.2
		110	143	117	110	98	88	80	72	61	54	44
		140	285	274	274	260	234	214	190	161	141	114
		180	591	567	560	495	445	406	361	301	259	194
		250	2020	1550	1470	1300	1160	1060	940	770	640	430
	180	080	80.0	66.3	62.8	55.6	50.8	46.5	41.6	35.4	31.5	26.5
		110	143	118	112	99	90	83	74	63	56	46
		140	285	277	277	263	240	220	196	166	147	121
		180	591	574	567	502	458	419	373	314	273	214
		250	2020	1570	1480	1310	1200	1090	970	810	690	510
	210	080	80.0	66.8	63.2	56.0	51.3	47.5	42.5	36.2	32.2	27.3
		110	200	136	128	114	104	96	86	73	65	55
		140	285	279	279	265	243	225	201	171	151	125
		180	591	578	572	506	464	429	382	323	283	228
		250	2020	1580	1500	1320	1210	1120	990	830	720	560
	240	080	80.0	67.1	63.5	56.2	51.6	48.2	43.2	36.8	32.8	27.8
		110	200	136	129	114	105	98	88	75	66	56
		140	285	281	281	266	244	228	204	174	154	129
		180	591	581	574	508	466	435	389	329	291	237
		250	2020	1590	1500	1330	1220	1140	1010	850	750	590
	270	080	80.0	67.3	63.7	56.4	51.8	48.4	43.8	37.4	33.3	28.3
		110	200	137	129	114	105	98	89	76	67	57
		140	285	282	282	267	245	229	207	176	157	132
		180	976	712	674	596	547	511	462	392	347	287
		250	2020	1590	1510	1330	1220	1140	1030	870	760	620
	300	080	80.0	67.5	63.9	56.6	51.9	48.5	44.3	37.8	33.8	28.7
		110	200	137	130	115	105	98	90	77	68	58
		140	285	282	282	268	246	230	210	179	159	134
		180	976	714	675	598	548	512	468	397	353	294
		250	2020	1600	1510	1340	1230	1140	1040	880	780	630
	330	080	80.0	67.6	64.0	56.7	52.0	48.6	44.6	38.2	34.1	29.0
		110	200	137	130	115	105	99	90	77	69	59
		140	285	283	283	268	246	230	211	181	161	136
		180	976	715	677	599	549	514	471	402	357	299
		250	2020	1600	1510	1340	1230	1150	1050	890	790	650

Product specifications

Option	Parallel cam drive		Roller gear cam drive			
	Pick and Place drive		Basic	Wide angle	Table	
	Linear	Circular				Standard
						Compact

Output torque table

Index series

● RGIS straight shaft (3 dwell)

Cam curve/MS

Cam curve/MS																
Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)										
						Input shaft rotational speed (rpm)										
						10	20	30	40	50	70	100	140	200		
Compact	Standard	Table	Roller gear cam drive	24	150	025	1.49	1.12	1.06	0.93	0.83	0.76	0.67	0.58	0.51	0.44
						032	2.70	2.04	1.93	1.70	1.52	1.39	1.22	1.06	0.92	0.79
						040	10.9	9.39	9.39	9.32	9.08	8.90	8.55	7.43	6.51	5.64
						050	19.9	17.3	17.3	17.2	16.7	16.4	15.9	15.4	14.1	12.1
						063	85.1	62.3	59.0	51.9	46.4	42.5	37.2	32.3	28.2	24.2
						080	164	142	142	134	120	110	96	83	73	63
						110	591	378	358	314	281	257	225	195	170	145
						140	1160	798	755	664	593	543	475	411	355	298
Wide angle	Basic	Parallel cam drive	210		180	2860	1580	1490	1310	1170	1070	940	800	690	560	
					250	5840	3680	3490	3060	2730	2490	2170	1840	1540	1170	
					025	2.89	2.26	2.14	1.90	1.71	1.57	1.37	1.20	1.05	0.91	
					032	4.77	3.75	3.55	3.14	2.83	2.60	2.28	1.98	1.73	1.50	
					040	30.6	22.2	21.0	18.6	16.8	15.4	13.5	11.8	10.3	8.9	
					050	50.1	38.5	36.5	32.3	29.1	26.7	23.4	20.4	17.8	15.4	
					063	85.1	64.9	61.4	54.4	49.1	45.0	39.4	34.2	29.9	25.8	
					080	242	194	183	162	146	134	118	102	89	77	
Circular Pick and Place drive	Option	270	110		591	393	372	330	297	272	239	207	181	155		
			140		1160	832	787	697	628	576	504	437	380	323		
			180		2860	1650	1560	1380	1240	1140	990	860	740	620		
			250		5840	3830	3630	3210	2890	2640	2300	1980	1680	1340		
			025		2.89	2.33	2.20	1.95	1.78	1.63	1.43	1.25	1.09	0.95		
			032		4.77	3.85	3.65	3.23	2.95	2.71	2.37	2.06	1.81	1.57		
			040		30.6	22.8	21.6	19.1	17.5	16.0	14.1	12.2	10.7	9.3		
			050		50.1	39.5	37.4	33.1	30.3	27.8	24.4	21.2	18.6	16.1		
Circular Pick and Place drive	Option	240	063		85.1	66.6	63.0	55.8	51.1	46.8	41.0	35.7	31.2	27.0		
			080		242	199	188	166	152	140	122	106	93	81		
			110		738	527	499	441	404	370	324	282	246	212		
			140		1640	1060	1010	890	820	750	650	570	500	430		
			180		2860	1690	1600	1420	1290	1190	1040	900	780	660		
			250		5840	3930	3720	3290	3010	2750	2400	2070	1770	1460		
			025		2.89	2.37	2.24	1.99	1.82	1.69	1.48	1.29	1.13	0.98		
			032		4.77	3.92	3.71	3.29	3.02	2.79	2.45	2.13	1.87	1.62		
Circular Pick and Place drive	Option	270	040		30.6	23.2	22.0	19.5	17.9	16.5	14.5	12.6	11.0	9.6		
			050		50.1	40.2	38.1	33.7	30.9	28.6	25.1	21.8	19.1	16.6		
			063		85.1	67.8	64.2	56.8	52.1	48.2	42.3	36.7	32.2	27.9		
			080		262	246	243	216	198	183	160	139	122	106		
			110		738	536	507	449	412	381	334	290	254	220		
			140		1640	1080	1030	910	830	770	680	590	510	440		
			180		2860	1720	1630	1440	1320	1220	1070	930	810	690		
			250		5840	4000	3780	3350	3070	2840	2480	2140	1850	1540		
Circular Pick and Place drive	Option	270	025	2.89	2.40	2.27	2.01	1.85	1.73	1.51	1.32	1.16	1.00			
			032	4.77	3.97	3.76	3.33	3.06	2.86	2.51	2.18	1.91	1.66			
			040	30.6	23.5	22.3	19.7	18.1	16.9	14.8	12.9	11.3	9.8			
			050	50.1	40.7	38.5	34.1	31.3	29.3	25.7	22.3	19.6	17.0			
			063	85.1	68.6	65.0	57.5	52.8	49.3	43.2	37.6	32.9	28.6			
			080	262	249	246	218	200	187	164	143	125	109			
			110	738	542	514	455	417	390	342	297	260	225			
			140	1640	1100	1040	920	840	790	690	600	530	450			
Circular Pick and Place drive	Option	270	180	2860	1740	1650	1460	1340	1250	1100	950	830	710			
			250	5840	4040	3830	3390	3110	2900	2540	2200	1900	1600			

● RGIS straight shaft (3 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				10	20	30	40	50	70	100	140	200
24	300	025	2.89	2.43	2.30	2.03	1.87	1.75	1.54	1.34	1.18	1.02
		032	4.77	4.01	3.80	3.36	3.09	2.89	2.55	2.22	1.95	1.69
		040	30.6	23.7	22.5	19.9	18.2	17.1	15.1	13.1	11.5	10.0
		050	50.1	41.1	38.9	34.4	31.6	29.5	26.1	22.7	19.9	17.3
		063	85.1	69.2	65.5	58.0	53.2	49.8	44.1	38.3	33.6	29.1
		080	262	252	249	220	202	189	167	145	127	111
		110	738	547	518	459	421	394	348	303	265	230
		140	1640	1110	1050	930	850	800	700	610	540	460
		180	2860	1760	1660	1470	1350	1260	1120	970	850	730
		250	5840	4080	3860	3420	3140	2930	2590	2240	1950	1650
	330	025	2.89	2.44	2.31	2.05	1.88	1.76	1.57	1.37	1.20	1.04
		032	4.77	4.04	3.83	3.39	3.11	2.91	2.60	2.26	1.98	1.72
		040	30.6	23.9	22.6	20.0	18.4	17.2	15.3	13.3	11.7	10.2
		050	50.1	41.3	39.1	34.6	31.8	29.7	26.5	23.1	20.2	17.6
		063	85.1	69.7	66.0	58.4	53.6	50.1	44.7	38.9	34.1	29.6
		080	262	253	250	222	203	190	170	148	129	112
		110	738	551	522	462	424	396	354	308	269	234
		140	1640	1120	1060	940	860	800	720	620	540	470
		180	2860	1770	1680	1480	1360	1270	1140	990	860	740
		250	5840	4110	3890	3440	3160	2950	2630	2280	1980	1690
30	120	040	10.9	9.39	9.39	9.23	8.99	8.81	8.46	7.35	6.43	5.60
		050	22.8	19.7	19.7	19.4	18.8	17.9	15.7	13.6	11.9	10.2
		063	63.6	46.9	44.4	38.6	34.5	31.6	27.7	24.0	20.9	17.8
		080	152	90.4	85.6	74.5	66.5	61.0	53.4	46.2	40.1	34.1
		110	359	311	307	267	239	219	191	165	143	121
		140	760	483	458	398	355	325	284	244	208	169
		180	1490	1030	970	840	750	690	600	510	430	320
		250	4150	2640	2490	2160	1930	1760	1520	1270	1020	690
	150	025	1.49	1.18	1.11	0.99	0.88	0.81	0.71	0.62	0.54	0.47
		032	3.66	2.90	2.75	2.43	2.18	2.00	1.75	1.52	1.33	1.15
		040	10.9	9.85	9.85	9.85	9.63	9.43	9.06	7.88	6.90	5.98
		050	37.9	27.8	26.3	23.3	20.9	19.2	16.8	14.6	12.8	11.0
		063	85.1	65.4	61.9	54.8	49.1	45.0	39.4	34.3	29.9	25.8
		080	152	94.9	89.8	79.5	71.2	65.3	57.2	49.6	43.3	37.1
		110	359	326	322	285	255	234	205	178	155	132
		140	950	663	627	555	497	456	399	345	298	251
		180	2100	1340	1270	1120	1010	920	800	690	590	490
		250	4150	2760	2610	2310	2070	1890	1640	1400	1160	880
	180	025	2.13	1.73	1.64	1.45	1.32	1.21	1.06	0.93	0.81	0.70
		032	3.66	2.99	2.83	2.51	2.28	2.09	1.83	1.60	1.40	1.21
		040	10.9	10.1	10.1	10.1	10.1	9.9	9.5	8.2	7.2	6.3
		050	37.9	28.6	27.1	24.0	21.8	20.0	17.5	15.3	13.4	11.6
		063	85.1	67.2	63.7	56.4	51.4	47.1	41.3	35.9	31.4	27.1
		080	152	97.6	92.4	81.8	74.5	68.3	59.8	52.0	45.4	39.1
		110	359	335	331	293	267	245	214	186	162	140
		140	950	682	646	572	521	477	418	362	315	268
		180	2100	1380	1310	1160	1050	960	840	730	630	530
		250	4150	2840	2690	2380	2160	1980	1720	1480	1250	1000

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive
Linear Circular

Option

● RGIS straight shaft (3 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				10	20	30	40	50	70	100	140	200
36	90	040	7.19	6.13	5.80	4.96	4.43	4.06	3.56	3.09	2.69	2.30
		050	13.1	10.2	9.6	8.2	7.3	6.7	5.9	5.1	4.4	3.7
		063	16.4	14.1	14.1	13.6	13.2	13.0	12.4	10.7	9.1	7.5
		080	80.0	57.6	54.5	46.6	41.6	38.1	33.3	28.7	24.6	20.2
		110	200	119	112	96	86	78	68	58	49	38
		140	420	315	298	254	227	207	180	152	126	94
		180	976	603	570	486	432	393	337	278	213	122
	250	2020	1370	1290	1100	970	880	740	580	380		
	120	032	2.70	2.13	2.01	1.77	1.58	1.45	1.27	1.10	0.96	0.83
		040	10.2	8.87	8.40	7.37	6.59	6.04	5.29	4.60	4.02	3.47
		050	12.8	11.8	11.7	11.6	11.3	11.1	10.7	9.3	8.1	6.9
		063	25.3	22.8	22.8	22.6	22.0	21.5	20.8	20.1	18.3	15.6
		080	108	82.5	78.1	68.5	61.2	56.1	49.1	42.6	37.0	31.5
		110	225	203	203	191	170	156	136	118	102	86
		140	462	414	409	359	320	293	256	220	189	154
		180	1220	845	799	700	625	571	496	423	353	270
		250	3910	2260	2140	1880	1670	1520	1320	1100	890	610
	150	032	2.70	2.21	2.09	1.85	1.67	1.53	1.34	1.17	1.02	0.88
		040	10.2	9.14	8.66	7.66	6.93	6.35	5.57	4.84	4.24	3.67
		050	12.8	12.1	12.1	12.1	11.9	11.7	11.2	9.7	8.5	7.4
		063	63.6	50.5	47.8	42.4	38.3	35.1	30.7	26.7	23.3	20.1
		080	108	85.5	81.0	71.7	64.8	59.3	52.0	45.1	39.4	33.8
		110	225	210	210	199	180	165	144	125	109	93
		140	462	429	425	376	339	311	272	235	203	171
		180	1220	876	829	733	662	606	528	454	387	313
		250	3910	2340	2220	1960	1770	1620	1410	1200	1000	760
	180	032	2.70	2.25	2.13	1.89	1.73	1.59	1.39	1.21	1.06	0.92
		040	10.2	9.30	8.81	7.80	7.15	6.57	5.76	5.01	4.39	3.80
		050	12.8	12.3	12.3	12.3	12.3	12.1	11.6	10.1	8.8	7.6
		063	63.6	51.6	48.8	43.2	39.7	36.4	31.9	27.7	24.2	21.0
		080	108	87.3	82.6	73.2	67.1	61.6	54.0	46.9	41.0	35.4
		110	225	214	214	203	186	171	150	130	114	98
		140	760	534	505	447	410	376	329	286	248	211
		180	1490	1130	1070	950	870	800	700	600	520	430
		250	3910	2390	2260	2000	1830	1680	1460	1260	1070	850
	210	032	2.70	2.28	2.16	1.92	1.76	1.64	1.43	1.25	1.09	0.95
		040	10.2	9.40	8.90	7.88	7.23	6.73	5.90	5.13	4.50	3.90
		050	12.8	12.4	12.4	12.4	12.4	12.4	11.9	10.3	9.0	7.8
		063	63.6	52.2	49.5	43.8	40.2	37.4	32.8	28.5	24.9	21.6
		080	152	101	95	85	78	72	63	55	48	42
		110	331	284	269	238	218	203	178	155	135	117
		140	760	541	512	453	416	387	339	294	256	219
		180	1490	1150	1080	960	880	820	720	620	540	460
		250	4150	2930	2770	2450	2250	2090	1830	1580	1360	1120
	240	032	2.70	2.30	2.18	1.93	1.77	1.66	1.46	1.27	1.12	0.97
		040	10.2	9.47	8.96	7.94	7.28	6.81	6.01	5.23	4.59	3.98
		050	12.8	12.5	12.5	12.5	12.5	12.5	12.1	10.5	9.2	8.0
		063	63.6	52.7	49.9	44.2	40.5	37.9	33.5	29.1	25.5	22.1
		080	152	102	96	85	78	73	65	56	49	43
		110	331	286	271	240	220	206	182	158	138	119
		140	760	545	516	457	419	392	346	300	262	226
		180	1490	1160	1090	970	890	830	730	630	550	470
		250	4150	2950	2800	2480	2270	2120	1870	1610	1400	1170

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pitch and Pressure

Linear

Circular

Option

● RGIS straight shaft (3 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				10	20	30	40	50	70	100	140	200
48	240	080	80.0	67.1	63.5	56.3	51.6	48.2	43.2	37.5	32.9	28.5
		110	200	136	129	114	105	98	88	76	66	57
		140	285	281	281	266	244	228	204	177	155	133
		180	591	581	575	509	466	436	389	337	292	248
		250	2020	1590	1500	1330	1220	1140	1020	880	750	630
	270	080	80.0	67.3	63.7	56.4	51.8	48.4	43.7	38.1	33.3	28.9
		110	200	137	129	114	105	98	89	77	67	58
		140	285	282	282	267	245	229	207	180	157	135
		180	976	712	674	596	547	511	462	401	349	298
		250	2020	1590	1510	1330	1220	1140	1030	890	770	650
	300	080	80.0	67.5	63.9	56.6	51.9	48.5	43.9	38.5	33.8	29.3
		110	200	137	130	115	105	98	89	78	68	59
		140	285	282	282	268	246	230	208	182	159	138
		180	976	714	676	598	548	513	463	406	354	303
		250	2020	1600	1510	1340	1230	1150	1030	900	780	660
	330	080	80.0	67.6	64.0	56.7	52.0	48.6	43.9	38.9	34.1	29.6
		110	200	137	130	115	105	99	89	79	69	60
		140	285	283	283	268	246	230	208	184	161	139
		180	976	715	677	599	549	514	464	410	358	308
		250	2020	1600	1510	1340	1230	1150	1040	910	800	680

Product specifications

Option	Pick and Place drive Linear Circular	Parallel cam drive			Roller gear cam drive		
		Basic	Wide angle	Table	Standard	Compact	

● RGIS straight shaft (4 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				10	15	20	30	40	50	75	100	150
32	330	025	2.89	2.44	2.31	2.12	1.88	1.72	1.61	1.38	1.24	1.05
		032	4.77	4.04	3.83	3.51	3.11	2.85	2.67	2.29	2.04	1.74
		040	30.6	23.9	22.6	20.7	18.4	16.9	15.8	13.5	12.1	10.3
		050	50.1	41.3	39.1	35.9	31.8	29.2	27.3	23.4	20.9	17.8
		063	85.1	69.7	66.0	60.5	53.6	49.2	46.0	39.4	35.2	30.0
		080	262	253	250	230	203	187	174	150	134	114
		110	738	551	522	479	424	389	363	312	278	237
		140	1640	1120	1060	970	860	790	740	630	560	480
		180	2860	1770	1680	1540	1360	1250	1170	1000	890	750
		250	5840	4110	3890	3570	3160	2890	2700	2310	2060	1730
36	150	032	2.70	2.10	1.99	1.82	1.59	1.42	1.30	1.11	0.99	0.84
		040	10.9	9.65	9.65	9.65	9.51	9.27	9.08	7.78	6.95	5.92
		050	37.9	27.3	25.8	23.7	20.7	18.5	16.9	14.4	12.9	10.9
		063	63.6	48.2	45.6	41.8	36.5	32.6	29.9	25.4	22.7	19.1
		080	152	92.9	88.0	80.7	70.4	62.9	57.6	49.1	43.7	36.8
		110	359	319	315	289	252	225	207	176	156	131
		140	760	497	471	432	376	336	307	261	231	190
		180	2100	1310	1240	1140	990	890	810	690	600	490
		250	4150	2710	2560	2350	2040	1820	1660	1390	1200	910
	180	025	2.13	1.71	1.62	1.48	1.31	1.17	1.08	0.92	0.82	0.70
		032	4.77	3.83	3.63	3.33	2.94	2.64	2.42	2.06	1.84	1.57
		040	30.6	22.7	21.5	19.7	17.4	15.6	14.3	12.2	10.9	9.3
		050	51.5	39.3	37.2	34.1	30.2	27.1	24.8	21.2	18.9	16.1
		063	85.1	66.2	62.7	57.5	50.9	45.6	41.8	35.6	31.8	27.0
		080	164	151	151	148	131	118	108	92	82	70
		110	591	401	380	348	309	276	253	216	192	162
		140	1160	849	804	737	653	584	535	455	405	340
		180	2860	1680	1590	1460	1290	1150	1060	900	790	660
		250	5840	3910	3700	3390	3000	2680	2450	2070	1820	1460
	210	025	2.13	1.75	1.65	1.52	1.34	1.22	1.12	0.95	0.85	0.73
		032	4.77	3.92	3.71	3.40	3.01	2.73	2.51	2.14	1.91	1.63
		040	30.6	23.2	21.9	20.1	17.8	16.2	14.8	12.7	11.3	9.6
		050	51.5	40.1	38.0	34.9	30.9	28.0	25.7	21.9	19.6	16.7
		063	85.1	67.6	64.0	58.7	52.0	47.2	43.3	36.9	33.0	28.0
		080	164	154	154	152	134	122	112	95	85	72
		110	591	410	388	356	315	286	262	223	199	169
		140	1160	868	822	754	667	606	555	473	421	355
		180	2860	1720	1630	1490	1320	1200	1100	930	830	690
		250	5840	3990	3780	3460	3060	2780	2540	2150	1900	1560
	240	025	2.13	1.77	1.68	1.54	1.36	1.25	1.15	0.98	0.88	0.75
		032	4.77	3.97	3.76	3.45	3.06	2.80	2.57	2.20	1.96	1.67
		040	30.6	23.5	22.3	20.4	18.1	16.6	15.2	13.0	11.6	9.9
		050	51.5	40.7	38.5	35.3	31.3	28.7	26.4	22.5	20.1	17.1
		063	85.1	68.6	65.0	59.6	52.8	48.4	44.4	37.9	33.9	28.8
		080	164	156	156	154	136	125	115	98	87	74
		110	591	416	394	361	320	293	269	229	205	174
		140	1160	881	834	765	677	621	570	486	433	367
		180	2860	1740	1650	1510	1340	1230	1130	960	850	720
		250	5840	4040	3830	3510	3110	2850	2610	2220	1960	1630

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive
Linear Circular

Option

Output torque table

Index series

● RGIS straight shaft (4 dwell)

Cam curve/MS

Cam curve/MS																
Product specifications			Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
							Input shaft rotational speed (rpm)									
							10	15	20	30	40	50	75	100	150	
Compact	Roller gear cam drive	36	270	025	2.13	1.79	1.70	1.56	1.38	1.26	1.17	1.00	0.89	0.76		
				032	4.77	4.02	3.80	3.49	3.09	2.83	2.63	2.24	2.01	1.71		
				040	30.6	23.7	22.5	20.6	18.3	16.8	15.5	13.3	11.9	10.1		
				050	51.5	41.1	38.9	35.7	31.6	29.0	26.9	23.0	20.5	17.5		
				063	85.1	69.3	65.6	60.2	53.3	48.9	45.4	38.7	34.6	29.4		
				080	164	158	158	155	138	126	117	100	89	76		
				110	591	420	397	365	323	296	275	234	209	178		
				140	1160	890	843	773	684	628	582	496	443	376		
Standard		300	180	2860	1760	1670	1530	1350	1240	1150	980	870	740			
			250	5840	4080	3870	3550	3140	2880	2670	2270	2010	1680			
			025	2.13	1.81	1.71	1.57	1.39	1.27	1.19	1.02	0.91	0.78			
			032	4.77	4.05	3.83	3.52	3.11	2.86	2.67	2.28	2.04	1.74			
			040	30.6	23.9	22.7	20.8	18.4	16.9	15.8	13.5	12.1	10.3			
			050	51.5	41.4	39.2	35.9	31.8	29.2	27.3	23.3	20.9	17.8			
			063	85.1	69.8	66.1	60.6	53.7	49.2	46.0	39.4	35.2	30.0			
			080	164	159	159	156	139	127	119	102	91	77			
Table		330	110	591	423	400	367	325	298	279	238	213	181			
			140	1160	897	849	779	690	632	591	505	451	383			
			180	2860	1770	1680	1540	1360	1250	1170	1000	890	750			
			250	5840	4110	3890	3570	3160	2900	2710	2310	2050	1720			
			025	2.13	1.82	1.72	1.58	1.40	1.28	1.20	1.03	0.92	0.79			
			032	4.77	4.07	3.85	3.54	3.13	2.87	2.69	2.32	2.07	1.77			
			040	30.6	24.1	22.8	20.9	18.5	17.0	15.9	13.7	12.2	10.4			
			050	51.5	41.6	39.4	36.1	32.0	29.3	27.4	23.7	21.2	18.0			
Wide angle		330	063	85.1	70.2	66.5	61.0	54.0	49.5	46.3	39.9	35.7	30.4			
			080	164	160	160	157	139	128	119	103	92	78			
			110	591	425	402	369	327	300	280	242	216	184			
			140	1160	902	854	783	693	636	595	513	458	389			
			180	2860	1780	1690	1550	1370	1260	1180	1010	900	760			
			250	5840	4140	3910	3590	3180	2910	2720	2340	2080	1750			
			025	1.49	1.18	1.11	1.02	0.90	0.80	0.73	0.63	0.56	0.47			
			032	2.70	2.14	2.03	1.86	1.63	1.46	1.34	1.14	1.02	0.86			
Basic		40	150	040	10.9	9.85	9.85	9.85	9.75	9.50	9.31	7.98	7.13	6.07		
				050	37.9	27.8	26.3	24.2	21.2	18.9	17.3	14.8	13.2	11.2		
				063	63.6	49.2	46.5	42.7	37.4	33.4	30.6	26.1	23.3	19.7		
				080	152	94.9	89.8	82.4	72.2	64.5	59.1	50.3	44.8	37.8		
				110	359	326	322	295	259	231	212	180	160	135		
				140	950	663	627	575	504	450	412	350	311	258		
				180	2100	1340	1270	1160	1020	910	830	700	620	510		
				250	4150	2760	2610	2400	2100	1870	1700	1430	1240	950		
Parallel cam drive	40	180	025	2.13	1.73	1.64	1.51	1.33	1.20	1.10	0.94	0.84	0.71			
			032	3.66	2.99	2.83	2.60	2.30	2.07	1.89	1.62	1.44	1.23			
			040	10.9	10.1	10.1	10.1	10.1	9.9	9.7	8.3	7.5	6.4			
			050	37.9	28.6	27.1	24.8	22.0	19.8	18.1	15.5	13.8	11.7			
			063	85.1	67.2	63.7	58.4	51.7	46.5	42.6	36.3	32.4	27.5			
			080	164	153	153	151	133	120	110	94	84	71			
			110	359	335	331	304	269	242	221	189	168	142			
			140	950	682	646	592	524	471	432	367	327	274			
			180	2100	1380	1310	1200	1060	950	870	740	660	540			
			250	4150	2840	2690	2460	2180	1950	1790	1510	1320	1060			

● RGIS straight shaft (4 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				10	15	20	30	40	50	75	100	150
40	210	025	2.13	1.77	1.67	1.54	1.36	1.24	1.14	0.97	0.87	0.74
		032	3.66	3.05	2.88	2.64	2.34	2.14	1.96	1.67	1.49	1.27
		040	10.9	10.3	10.3	10.3	10.3	10.3	10.1	8.6	7.7	6.6
		050	37.9	29.1	27.5	25.3	22.4	20.4	18.7	16.0	14.2	12.1
		063	85.1	68.4	64.8	59.4	52.6	48.0	44.0	37.5	33.5	28.5
		080	164	156	156	153	136	124	113	97	86	74
		110	359	341	337	309	273	249	229	195	174	147
		140	950	695	658	603	534	487	446	380	338	285
		180	2100	1410	1330	1220	1080	980	900	770	680	570
		250	5840	4030	3820	3500	3100	2820	2580	2190	1940	1590
	240	025	2.13	1.79	1.70	1.56	1.38	1.26	1.17	0.99	0.89	0.76
		032	3.66	3.08	2.92	2.68	2.37	2.17	2.01	1.71	1.53	1.30
		040	10.9	10.4	10.4	10.4	10.4	10.4	10.3	8.8	7.9	6.7
		050	37.9	29.4	27.9	25.6	22.6	20.8	19.1	16.3	14.6	12.4
		063	85.1	69.2	65.5	60.1	53.2	48.8	45.0	38.4	34.3	29.2
		080	164	158	158	155	137	126	116	99	89	75
		110	359	345	341	313	277	254	234	200	178	151
		140	950	703	666	611	540	496	457	390	347	294
		180	2100	1420	1350	1240	1090	1000	920	790	700	590
		250	5840	4080	3860	3540	3140	2870	2650	2250	1990	1660
	270	025	2.13	1.81	1.71	1.57	1.39	1.27	1.19	1.01	0.91	0.77
		032	4.77	4.05	3.83	3.52	3.11	2.86	2.66	2.27	2.03	1.70
		040	10.9	10.5	10.5	10.5	10.5	10.5	10.5	9.0	8.0	6.9
		050	37.9	29.7	28.1	25.8	22.8	20.9	19.5	16.6	14.9	12.7
		063	85.1	69.8	66.1	60.6	53.7	49.2	45.9	39.2	35.0	29.8
		080	164	159	159	156	139	127	118	101	90	77
		110	359	347	344	315	279	256	239	203	182	155
		140	950	709	671	616	545	500	466	397	354	300
		180	2100	1430	1360	1250	1100	1010	940	800	710	600
		250	5840	4110	3890	3570	3160	2900	2700	2290	2040	1700
	300	025	2.13	1.82	1.72	1.58	1.40	1.28	1.20	1.03	0.92	0.79
		032	4.77	4.07	3.86	3.54	3.13	2.87	2.69	2.31	2.06	1.80
		040	10.9	10.6	10.6	10.6	10.6	10.6	10.6	9.1	8.2	7.0
		050	37.9	29.8	28.2	25.9	22.9	21.0	19.7	16.9	15.1	12.9
		063	85.1	70.2	66.5	61.0	54.0	49.5	46.3	39.8	35.5	30.3
		080	164	160	160	157	139	128	120	103	92	78
		110	359	349	346	317	281	257	241	207	185	157
		140	950	713	675	620	549	503	470	404	360	306
		180	2100	1440	1370	1250	1110	1020	950	820	730	610
		250	5840	4140	3920	3590	3180	2920	2720	2330	2080	1740
	330	025	2.13	1.83	1.73	1.59	1.41	1.29	1.21	1.04	0.93	0.80
		032	4.77	4.09	3.88	3.55	3.15	2.89	2.70	2.34	2.09	1.80
		040	10.9	10.6	10.6	10.6	10.6	10.6	10.6	9.3	8.3	7.1
		050	37.9	30.0	28.4	26.0	23.0	21.1	19.8	17.1	15.3	13.1
		063	85.1	70.5	66.8	61.3	54.2	49.8	46.5	40.3	36.0	30.7
		080	164	161	161	158	140	128	120	104	93	79
		110	359	351	347	318	282	259	242	209	187	159
		140	950	717	679	622	551	505	473	409	365	310
		180	2100	1450	1370	1260	1120	1020	960	830	740	620
		250	5840	4160	3930	3610	3190	2930	2740	2370	2110	1770

Product specifications

Option	Parallel cam drive		Roller gear cam drive				
	Pick and Place drive	Linear	Basic	Wide angle	Table		
						Standard	Compact
Circular							

Output torque table

Index series

● RGIS straight shaft (4 dwell)

Cam curve/MS

Cam curve/MS																
Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)										
						Input shaft rotational speed (rpm)										
						10	15	20	30	40	50	75	100	150		
Compact	Standard	Table	Roller gear cam drive	48	120	032	1.89	1.49	1.41	1.29	1.12	1.00	0.91	0.78	0.69	0.58
						040	10.2	8.87	8.40	7.70	6.67	5.96	5.47	4.66	4.16	3.53
						050	12.8	11.8	11.7	11.7	11.5	11.2	11.0	9.4	8.4	7.1
						063	25.3	22.8	22.8	22.8	22.3	21.7	21.2	20.4	19.0	16.0
						080	80.0	61.6	58.3	53.5	46.3	41.4	37.9	32.2	28.6	23.9
						110	225	203	203	199	173	154	141	120	106	88
						140	462	414	409	375	325	290	265	224	198	161
						180	1220	844	799	733	634	565	515	432	376	291
						250	3910	2260	2140	1960	1700	1510	1370	1140	970	690
Wide angle	Basic	Parallel cam drive	210		032	2.70	2.21	2.09	1.92	1.69	1.51	1.39	1.18	1.06	0.90	
					040	10.2	9.14	8.66	7.94	7.02	6.27	5.75	4.90	4.38	3.73	
					050	12.8	12.1	12.1	12.1	12.1	11.8	11.5	9.9	8.8	7.5	
					063	63.6	50.5	47.8	43.9	38.8	34.7	31.8	27.1	24.1	20.4	
					080	108	85.5	81.0	74.3	65.6	58.6	53.7	45.8	40.8	34.5	
					110	225	210	210	206	182	163	149	127	113	95	
					140	462	429	425	389	344	307	281	239	212	176	
					180	1220	876	829	760	671	599	547	463	407	328	
					250	3910	2340	2220	2030	1790	1600	1460	1220	1060	820	
Option	Circular Pitch drive	240	032		2.70	2.25	2.13	1.96	1.73	1.57	1.44	1.23	1.10	0.93		
			040		10.2	9.30	8.81	8.08	7.15	6.49	5.94	5.07	4.53	3.86		
			050		12.8	12.3	12.3	12.3	12.3	12.2	11.9	10.2	9.1	7.7		
			063		63.6	51.6	48.8	44.8	39.7	36.0	33.0	28.1	25.1	21.3		
			080		108	87.3	82.6	75.8	67.1	60.9	55.8	47.5	42.4	36.0		
			110		331	280	266	244	216	195	179	153	136	115		
			140		760	534	505	463	410	372	341	290	258	216		
			180		1490	1130	1070	980	870	790	720	610	540	450		
			250		3910	2390	2260	2070	1830	1660	1520	1280	1120	900		
Option	Circular Pitch drive	270	032		2.70	2.28	2.16	1.98	1.76	1.61	1.48	1.26	1.13	0.96		
			040		10.2	9.40	8.90	8.16	7.23	6.63	6.09	5.20	4.65	3.96		
			050		12.8	12.4	12.4	12.4	12.4	12.4	12.2	10.5	9.3	8.0		
			063		63.6	52.2	49.5	45.4	40.2	36.8	33.8	28.9	25.8	21.9		
			080		152	101	95	88	78	71	65	56	50	42		
			110		331	284	269	247	218	200	184	157	140	119		
			140		760	541	512	470	416	381	350	298	266	224		
			180		1490	1150	1080	1000	880	810	740	630	560	470		
			250		4150	2930	2770	2540	2250	2060	1890	1600	1420	1160		
Option	Circular Pitch drive	300	032		2.70	2.30	2.18	2.00	1.77	1.63	1.51	1.29	1.15	0.98		
			040		10.2	9.47	8.96	8.22	7.28	6.68	6.21	5.30	4.74	4.04		
			050		12.8	12.5	12.5	12.5	12.5	12.5	12.4	10.7	9.5	8.1		
			063		63.6	52.7	49.9	45.7	40.5	37.2	34.6	29.5	26.3	22.4		
			080		152	102	96	88	78	72	67	57	51	43		
			110		331	286	271	249	220	202	188	160	143	121		
			140		760	545	516	474	419	385	358	305	272	230		
			180		1490	1160	1090	1000	890	810	760	640	570	480		
			250		4150	2950	2800	2560	2270	2080	1930	1640	1450	1210		
Option	Circular Pitch drive	360	032		2.70	2.32	2.20	2.01	1.78	1.64	1.53	1.31	1.17	1.00		
			040		10.2	9.51	9.01	8.26	7.31	6.71	6.28	5.38	4.81	4.10		
			050		12.8	12.6	12.6	12.6	12.6	12.6	12.6	10.8	9.7	8.2		
			063		63.6	53.0	50.2	46.0	40.7	37.4	34.9	30.0	26.8	22.8		
			080		152	102	97	89	79	72	67	58	52	44		
			110		331	288	273	250	221	203	190	163	145	124		
			140		760	549	520	477	422	387	362	310	276	234		
			180		1490	1160	1100	1010	890	820	770	660	580	490		
			250		4150	2970	2810	2580	2280	2090	1960	1670	1480	1240		

● RGIS straight shaft (4 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				10	15	20	30	40	50	75	100	150
48	300	032	2.70	2.33	2.21	2.02	1.79	1.64	1.54	1.33	1.19	1.01
		040	10.2	9.55	9.04	8.29	7.34	6.73	6.30	5.45	4.87	4.16
		050	12.8	12.6	12.6	12.6	12.6	12.6	12.6	11.0	9.8	8.4
		063	63.6	53.2	50.4	46.2	40.9	37.5	35.1	30.4	27.2	23.1
		080	152	103	97	89	79	72	68	59	52	45
		110	331	289	274	251	222	204	191	165	147	126
		140	760	551	522	479	424	389	363	314	281	238
		180	1490	1170	1110	1010	900	820	770	670	590	500
		250	4150	2980	2820	2590	2290	2100	1960	1700	1510	1260
	330	032	2.70	2.34	2.21	2.03	1.80	1.65	1.54	1.35	1.20	1.03
		040	10.2	9.57	9.06	8.31	7.36	6.75	6.31	5.52	4.93	4.21
		050	12.8	12.6	12.6	12.6	12.6	12.6	12.6	11.1	9.9	8.4
		063	63.6	53.4	50.5	46.4	41.0	37.6	35.2	30.8	27.5	23.4
		080	152	103	98	90	79	73	68	59	53	45
		110	331	290	275	252	223	205	191	167	149	127
		140	760	553	524	480	425	390	365	318	284	241
		180	1490	1170	1110	1020	900	830	770	670	600	510
		250	4150	2990	2830	2600	2300	2110	1970	1720	1530	1290

Product specifications

Option	Pick and Place drive Linear Circular	Parallel cam drive			Roller gear cam drive			Product specifications	
		Basic	Wide angle	Table	Standard	Compact			

Output torque table

Index series

● RGIS flange shaft (1 dwell)

Cam curve/MS

Cam curve/MS															
Product specifications			Rated dynamic output torque (N·m)												
			Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Input shaft rotational speed (rpm)								
							30	60	90	120	150	200	300	400	600
Roller gear cam drive	Compact	2	150	025	1.09	0.56	0.49	0.42	0.38	0.34	0.30	0.25			
				032	1.99	1.02	0.90	0.77	0.68	0.62	0.55				
		180	025	1.09	0.63	0.56	0.48	0.43	0.39	0.35	0.29	0.25			
			032	2.69	1.56	1.39	1.19	1.06	0.97	0.86	0.73				
		210	025	1.09	0.69	0.62	0.53	0.47	0.43	0.38	0.32	0.28			
			032	2.69	1.70	1.53	1.30	1.16	1.07	0.95	0.80	0.71			
		240	025	1.09	0.73	0.66	0.57	0.51	0.46	0.41	0.35	0.31			
			032	2.69	1.81	1.64	1.40	1.25	1.15	1.02	0.87	0.77			
	Standard	270	025	1.09	0.76	0.70	0.60	0.53	0.49	0.44	0.37	0.33			
			032	2.69	1.89	1.74	1.48	1.33	1.21	1.08	0.92	0.82			
		040	10.9	6.64	6.44	6.19	6.02	5.88	5.68	4.73	4.02	2.86			
		050	19.9	12.3	12.0	11.5	11.2	10.9	10.6	10.0	9.1	6.9			
		063	85.1	44.2	40.6	34.6	30.9	28.2	25.0	20.9	18.0	13.4			
		080	164	100	97	89	79	73	64	54	46	35			
		110	359	220	211	180	160	146	129	105	87				
		140	950	443	407	346	307	279	244	192	149				
	Table	180	2860	1110	1020	860	760	690	590	450					
		250	5840	2620	2390	2020	1760	1570	1290						
		300	025	2.13	1.19	1.10	0.94	0.84	0.77	0.68	0.57	0.50			
			032	4.77	2.69	2.49	2.13	1.90	1.74	1.55	1.31	1.15			
			040	30.6	16.1	14.9	12.7	11.4	10.4	9.2	7.8	6.8	5.3		
			050	50.1	28.1	26.1	22.2	19.9	18.2	16.2	13.6	11.9	9.5		
			063	85.1	47.0	43.6	37.2	33.2	30.4	27.0	22.7	19.7	15.2		
			080	242	140	130	111	99	90	81	68	59	46		
	110		591	286	265	226	201	184	163	135	114	81			
	140		1160	598	554	472	420	383	338	275	227				
	Basic	180	3030	1430	1330	1130	1000	910	800	630					
		250	10400	3250	3010	2540	2240	2010	1700						
		330	025	2.13	1.25	1.17	1.00	0.89	0.82	0.73	0.61	0.54			
			032	4.77	2.83	2.65	2.26	2.02	1.85	1.65	1.40	1.24			
			040	30.6	17.0	15.9	13.5	12.1	11.1	9.9	8.3	7.3	5.8		
			050	50.1	29.6	27.7	23.6	21.1	19.3	17.2	14.6	12.8	10.4		
			063	119	56.6	52.9	45.1	40.3	36.9	32.9	27.7	24.3	19.4		
			080	242	148	138	118	105	96	86	72	64	51		
	110		591	301	281	240	214	196	174	145	124	92			
	140		1160	631	590	503	448	409	362	298	250				
	Parallel cam drive	180	3030	1510	1410	1200	1070	970	850	690	550				
		250	10400	3430	3200	2710	2400	2160	1850	1370					
3		120	025	1.09	0.62	0.55	0.47	0.42	0.38	0.34	0.28	0.24			
			032	2.69	1.54	1.37	1.16	1.04	0.95	0.84	0.70				
		150	025	1.09	0.71	0.63	0.54	0.48	0.44	0.39	0.33	0.29			
			032	2.69	1.75	1.56	1.33	1.19	1.09	0.97	0.82	0.71			
		180	025	1.09	0.76	0.69	0.59	0.52	0.48	0.43	0.36	0.32			
			032	2.69	1.89	1.71	1.46	1.30	1.19	1.06	0.90	0.79			
	040	10.9	6.64	6.32	6.07	5.89	5.74	5.53	4.52	3.74	2.32				
	050	19.9	12.3	11.7	11.3	11.0	10.7	10.3	9.7	8.6	6.1				
	063	85.1	44.1	39.8	33.9	30.2	27.6	24.4	20.1	16.9	11.5				
	080	164	100	96	87	78	71	63	52	44	30				
	110	359	220	207	176	157	142	125	99	78					
	140	950	443	399	338	300	271	233	175	123					
	180	2860	1110	1000	840	740	660	560	390						
	250	5840	2620	2340	1960	1690	1470	1160							

● RGIS flange shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
3	210	025	2.13	1.22	1.12	0.95	0.85	0.78	0.69	0.58	0.50	
		032	4.77	2.76	2.53	2.16	1.93	1.76	1.57	1.32	1.16	
		040	10.9	7.27	7.02	6.76	6.56	6.41	6.19	5.15	4.38	3.10
		050	50.1	28.9	26.4	22.5	20.1	18.4	16.4	13.7	11.9	9.2
		063	85.1	48.3	44.2	37.7	33.6	30.7	27.3	22.8	19.6	14.6
		080	242	144	132	112	100	92	81	68	59	45
		110	591	293	268	228	203	186	164	134	112	72
		140	1160	615	562	478	425	387	339	271	217	
		180	2860	1220	1110	940	830	750	650	490		
	250	5840	2860	2610	2190	1920	1700	1400				
	240	025	2.13	1.31	1.22	1.04	0.93	0.85	0.75	0.63	0.55	
		032	4.77	2.97	2.75	2.34	2.09	1.92	1.71	1.44	1.27	
		040	30.6	17.7	16.4	14.0	12.5	11.4	10.2	8.6	7.5	5.9
		050	50.1	30.9	28.6	24.4	21.8	20.0	17.8	15.0	13.1	10.5
		063	85.1	51.8	48.0	40.9	36.5	33.4	29.7	25.0	21.7	16.9
		080	242	154	143	122	109	100	89	75	65	51
		110	591	314	291	248	221	202	179	148	126	90
		140	1160	660	611	520	463	422	372	304	252	
		180	3030	1580	1460	1240	1100	1000	880	690	540	
	250	10400	3580	3300	2790	2460	2210	1880	1340			
	270	025	2.13	1.39	1.30	1.11	0.99	0.91	0.81	0.68	0.60	
		032	7.41	4.87	4.56	3.89	3.48	3.19	2.84	2.42	2.14	
		040	41.6	26.1	24.4	20.8	18.6	17.0	15.2	12.9	11.4	9.3
		050	50.1	32.6	30.5	26.0	23.2	21.3	19.0	16.0	14.1	11.5
		063	85.1	54.6	51.1	43.6	39.0	35.7	31.8	26.8	23.5	18.8
080		242	163	152	130	116	106	95	80	70	57	
110		591	332	310	264	236	216	192	160	138	104	
140		1160	697	652	556	495	452	400	331	280	195	
180		3030	1670	1560	1330	1180	1080	950	770	620		
250	10400	3770	3520	2990	2640	2390	2060	1540				
300	025	2.89	1.97	1.86	1.59	1.42	1.30	1.16	0.98	0.87		
	032	7.41	5.09	4.81	4.11	3.67	3.36	3.00	2.55	2.27		
	040	41.6	27.2	25.7	22.0	19.6	18.0	16.0	13.6	12.0	10.0	
	050	67.0	45.2	42.7	36.4	32.5	29.8	26.6	22.6	20.0	16.6	
	063	119	65.0	61.4	52.4	46.8	42.9	38.2	32.4	28.5	23.3	
	080	262	207	204	174	156	142	127	108	95	79	
	110	738	451	426	364	325	297	264	223	195	154	
	140	1640	907	857	731	652	596	529	443	382	289	
	180	3030	1740	1650	1400	1250	1140	1010	820	690		
250	10400	3930	3710	3150	2790	2530	2200	1710	1280			
330	025	2.89	2.04	1.93	1.66	1.48	1.36	1.21	1.03	0.91		
	032	7.41	5.27	4.99	4.29	3.83	3.51	3.14	2.67	2.38		
	040	41.6	28.2	26.7	22.9	20.5	18.7	16.7	14.2	12.6	10.5	
	050	67.0	46.7	44.2	38.0	33.9	31.1	27.8	23.6	20.9	17.5	
	063	129	106	106	97	87	80	71	60	54	45	
	080	262	214	211	182	162	149	133	113	100	83	
	110	738	467	442	379	339	310	276	233	205	165	
	140	1640	939	888	763	681	623	554	465	405	315	
	180	3030	1800	1710	1460	1310	1190	1060	870	740	520	
250	10400	4070	3840	3290	2920	2650	2320	1840	1440			

Product specifications

Roller gear cam drive	Compact	
	Standard	
	Table	
	Wide angle	
Basic		
Parallel cam drive		
Pick and Place drive	Linear	
	Circular	
Option		

Output torque table

Index series

● RGIS flange shaft (1 dwell)

Cam curve/MS

Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)										
						Input shaft rotational speed (rpm)										
						30	60	90	120	150	200	300	400	600		
Roller gear cam drive	Compact	90	032	1.39	0.78	0.69	0.59	0.53	0.48	0.42	0.34					
			025	1.09	0.72	0.64	0.55	0.49	0.45	0.40	0.33	0.29				
			032	1.39	0.92	0.82	0.70	0.62	0.57	0.51	0.42	0.36				
		120	025	1.49	0.83	0.75	0.63	0.57	0.52	0.45	0.37	0.31				
			032	2.70	1.52	1.37	1.17	1.04	0.95	0.84	0.69	0.58				
			040	10.2	6.66	5.98	5.08	4.52	4.10	3.58	2.83	2.20	0.95			
		150	050	12.8	8.90	8.44	8.11	7.87	7.66	7.36	5.99	4.90	2.89			
			063	63.6	35.4	31.8	27.0	24.1	21.9	19.3	15.7	12.9	7.8			
			080	108	59.7	53.6	45.6	40.5	36.8	32.2	25.6	20.3	9.8			
			110	331	193	173	147	130	118	103	79	59	18			
			140	760	362	324	275	242	218	185	132	82				
			180	1490	768	686	577	503	445	362	211					
			250	4150	1990	1770	1460	1250	1060	780						
	Standard	180	025	1.49	0.92	0.84	0.71	0.64	0.58	0.52	0.43	0.37				
			032	2.70	1.68	1.54	1.31	1.17	1.07	0.95	0.79	0.68				
			040	10.9	7.79	7.52	7.23	7.03	6.87	6.64	5.53	4.71	3.37			
			050	19.9	14.4	13.9	13.4	13.0	12.7	12.3	11.7	10.6	8.1			
			063	63.6	38.9	35.6	30.3	27.0	24.7	21.9	18.1	15.4	10.9			
			080	152	75.0	68.5	58.4	52.0	47.5	41.9	34.5	28.9	19.3			
			110	359	258	246	210	187	170	150	122	101	63			
			140	950	522	476	405	359	326	285	225	174				
			180	2100	1060	960	820	720	650	550	400	260				
			250	4150	2190	1990	1670	1450	1270	1020	530					
	Table	210	025	2.13	1.41	1.31	1.12	1.00	0.91	0.81	0.68	0.60				
			032	4.77	3.18	2.95	2.52	2.25	2.06	1.84	1.55	1.37				
			040	17.9	13.9	13.4	13.1	12.8	12.3	10.9	9.2	8.0	6.4			
			050	19.9	15.4	15.1	14.5	14.2	13.8	13.4	12.8	11.7	9.3			
			063	63.6	41.7	38.6	33.0	29.4	26.9	23.9	20.0	17.3	13.1			
			080	164	126	124	113	101	92	82	69	60	47			
			110	359	276	268	228	203	186	164	136	116	82			
			140	950	560	518	441	393	358	315	255	208	123			
			180	2100	1130	1050	890	790	720	620	480	350				
	Wide angle	240	250	4150	2350	2160	1830	1600	1430	1190	770					
Basic	Parallel cam drive		025	2.13	1.49	1.40	1.19	1.06	0.97	0.87	0.73	0.65				
			032	4.77	3.35	3.15	2.69	2.40	2.20	1.96	1.66	1.47				
			040	17.9	14.6	14.5	14.0	13.6	13.1	11.6	9.9	8.7	7.0			
			050	19.9	16.2	16.1	15.5	15.1	14.7	14.3	13.7	12.6	10.2			
			063	63.6	43.9	41.1	35.1	31.3	28.7	25.5	21.5	18.7	14.7			
			080	164	133	132	120	107	98	88	74	65	52			
			110	359	291	285	243	217	198	176	147	127	95			
			140	950	589	552	471	419	383	338	278	234	158			
			180	2100	1190	1120	950	840	770	670	530	420	200			
	Circular P&S drive		250	5840	3450	3230	2740	2420	2190	1880	1410	970				
Option		270	025	2.13	1.55	1.47	1.25	1.12	1.03	0.92	0.78	0.69				
			032	4.77	3.49	3.30	2.82	2.52	2.31	2.06	1.75	1.55				
			040	17.9	15.1	15.1	14.6	14.2	13.7	12.2	10.4	9.2	7.5			
			050	19.9	16.8	16.8	16.2	15.8	15.5	15.0	14.4	13.3	11.0			
			063	63.6	45.5	43.1	36.8	32.9	30.1	26.8	22.7	19.9	16.0			
			080	164	138	138	126	113	103	92	78	69	56			
			110	591	367	348	297	265	243	216	182	158	124			
			140	1160	775	733	626	558	510	453	378	326	243			
			180	2860	1530	1450	1240	1100	1000	890	720	600	380			
			250	5840	3580	3380	2880	2550	2310	2010	1560	1170				

● RGIS flange shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
4	300	025	2.13	1.60	1.51	1.31	1.17	1.07	0.95	0.81	0.72	
		032	4.77	3.59	3.40	2.94	2.62	2.40	2.15	1.83	1.62	
		040	30.6	21.3	20.2	17.4	15.6	14.3	12.7	10.8	9.6	7.9
		050	50.1	37.1	35.1	30.3	27.1	24.8	22.1	18.8	16.7	13.9
		063	85.1	62.3	59.0	50.9	45.5	41.7	37.2	31.5	27.9	23.0
		080	164	142	142	131	117	107	96	81	72	59
		110	591	378	358	309	276	252	225	190	166	133
		140	1160	798	755	651	581	532	473	396	344	266
		180	2860	1580	1490	1290	1150	1050	930	760	650	450
		250	5840	3680	3480	2990	2660	2420	2110	1680	1320	
	330	025	2.13	1.64	1.55	1.35	1.21	1.10	0.99	0.84	0.74	
		032	4.77	3.68	3.48	3.03	2.71	2.48	2.22	1.89	1.68	
		040	30.6	21.8	20.7	18.0	16.1	14.7	13.1	11.2	9.9	8.3
		050	50.1	37.9	35.9	31.2	27.9	25.6	22.8	19.4	17.2	14.4
		063	85.1	63.8	60.4	52.5	46.9	43.0	38.4	32.6	28.9	24.0
		080	164	145	145	135	121	111	99	84	75	62
		110	591	386	366	318	284	260	232	196	173	140
		140	1160	816	773	672	600	549	489	411	359	284
		180	2860	1620	1530	1330	1180	1080	960	800	680	500
		250	5840	3760	3560	3090	2750	2500	2200	1770	1430	800
5	120	040	7.19	4.92	4.36	3.70	3.27	2.95	2.53	1.88	1.27	
		050	13.1	8.31	7.38	6.27	5.55	5.02	4.35	3.32	2.40	
		063	16.4	11.2	10.5	10.0	9.7	9.3	8.8	6.6	4.6	
		080	80.0	45.0	39.9	33.9	30.0	27.1	23.4	17.6	12.4	
		110	200	94.1	83.3	70.3	61.6	54.9	45.7	29.6	13.1	
		140	420	245	217	182	159	140	115	67	16	
		180	976	464	407	337	285	241	172			
		250	2870	1330	1150	930	750	590	320			
	150	032	1.89	1.20	1.09	0.93	0.83	0.75	0.67	0.55	0.46	
		040	7.19	5.45	4.94	4.20	3.73	3.39	2.97	2.35	1.84	0.83
		050	12.8	9.86	9.45	9.09	8.83	8.61	8.31	6.87	5.77	3.88
		063	25.3	18.5	17.7	17.1	16.5	16.1	15.5	14.4	12.6	8.2
		080	108	67.0	60.8	51.8	46.1	42.0	37.0	30.1	24.7	15.0
		110	225	165	158	144	128	116	102	80	63	28
		140	462	335	317	269	237	214	184	137	93	
		180	976	523	471	396	344	302	242			
		250	2870	1490	1340	1110	940	800	580			
	180	032	2.70	1.86	1.71	1.46	1.31	1.19	1.06	0.89	0.78	
		040	10.2	7.92	7.31	6.23	5.55	5.07	4.48	3.70	3.12	2.15
		050	12.8	10.5	10.3	9.9	9.6	9.4	9.1	7.6	6.6	4.9
		063	25.3	20.0	19.5	18.7	18.2	17.8	17.2	16.2	14.5	10.7
		080	108	72.4	66.8	56.9	50.8	46.4	41.1	34.0	28.9	20.4
		110	225	178	174	158	141	129	113	92	76	47
		140	462	362	349	296	263	239	208	164	126	51
		180	1220	739	680	575	507	456	388	276	169	
		250	3910	1990	1820	1530	1340	1180	960	550		
	210	032	2.70	1.96	1.84	1.57	1.40	1.28	1.14	0.96	0.85	
		040	14.8	8.30	7.77	6.62	5.91	5.40	4.79	4.00	3.44	2.55
		050	12.8	11.0	10.9	10.5	10.2	9.9	9.6	8.1	7.1	5.5
		063	63.6	45.2	42.3	36.1	32.2	29.4	26.2	22.0	19.2	15.1
		080	152	87.1	81.5	69.5	62.0	56.7	50.4	42.2	36.6	28.0
		110	331	246	230	196	175	160	141	117	100	72
		140	462	382	373	318	283	257	226	183	149	85
		180	1490	986	922	783	695	630	548	427	323	111
		250	4150	2540	2370	2000	1760	1580	1340	940	550	

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive

Option

Output torque table

● RGIS flange shaft (1 dwell)

Cam curve/MS

Cam curve/MS															
Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
						Input shaft rotational speed (rpm)									
						30	60	90	120	150	200	300	400	600	
Roller gear cam drive	5	240	025	1.49	1.12	1.06	0.90	0.81	0.74	0.66	0.56	0.49			
			032	2.70	2.04	1.93	1.65	1.47	1.35	1.20	1.02	0.90			
			040	10.9	9.39	9.39	9.05	8.81	8.63	8.38	7.12	6.26	5.04		
			050	37.9	26.6	25.1	21.5	19.2	17.6	15.7	13.3	11.7	9.6		
			063	63.6	46.9	44.4	37.9	33.8	31.0	27.6	23.3	20.5	16.4		
			080	152	90.4	85.6	73.1	65.2	59.7	53.1	44.7	39.1	30.9		
			110	331	255	241	206	184	168	149	125	108	82		
			140	760	483	457	390	348	317	281	231	195	133		
	180	1490	1020	970	830	730	670	590	470	370	190				
	250	4150	2630	2490	2110	1870	1690	1450	1080	750					
	270	025	1.49	1.15	1.09	0.94	0.84	0.77	0.69	0.58	0.51				
		032	3.66	2.84	2.69	2.32	2.08	1.90	1.70	1.44	1.28				
		040	10.9	9.65	9.65	9.41	9.16	8.97	8.72	7.42	6.55	5.36			
		050	37.9	27.3	25.8	22.3	19.9	18.2	16.3	13.8	12.2	10.1			
		063	63.6	48.2	45.6	39.4	35.2	32.2	28.7	24.3	21.4	17.5			
		080	152	92.9	87.9	75.9	67.8	62.1	55.3	46.7	41.1	33.1			
		110	359	319	315	272	243	222	198	167	146	116			
		140	760	497	470	406	362	331	293	244	208	152			
	180	1490	1050	1000	860	760	700	610	500	410	250				
	250	4150	2710	2560	2200	1950	1760	1530	1190	890	260				
	300	025	1.49	1.18	1.11	0.97	0.87	0.79	0.71	0.60	0.53				
		032	3.66	2.90	2.75	2.40	2.14	1.96	1.75	1.49	1.32				
		040	10.9	9.85	9.85	9.70	9.44	9.25	9.00	7.67	6.79	5.60			
		050	37.9	27.8	26.3	23.0	20.5	18.8	16.8	14.3	12.6	10.5			
		063	63.6	49.1	46.5	40.6	36.2	33.2	29.6	25.1	22.2	18.3			
		080	152	94.8	89.8	78.3	69.9	64.0	57.1	48.3	42.6	34.8			
		110	359	326	322	280	250	229	204	173	152	123			
		140	760	508	480	418	373	341	303	254	219	166			
180	1490	1080	1020	890	790	720	640	520	440	290					
250	4150	2760	2610	2270	2010	1830	1600	1270	990	450					
330	025	1.49	1.20	1.13	1.00	0.89	0.81	0.73	0.62	0.55					
	032	3.66	2.95	2.79	2.46	2.20	2.01	1.80	1.53	1.36					
	040	10.9	10.0	10.0	9.9	9.7	9.5	9.2	7.9	7.0	5.8				
	050	37.9	28.3	26.7	23.5	21.0	19.3	17.2	14.6	13.0	10.9				
	063	63.6	49.9	47.3	41.6	37.1	34.0	30.4	25.8	22.8	19.0				
	080	152	96.4	91.2	80.2	71.6	65.6	58.5	49.6	43.9	36.2				
	110	359	331	327	287	257	235	210	178	157	128				
	140	760	516	488	429	383	350	312	262	228	177				
180	1490	1090	1030	910	810	740	660	540	460	330					
250	4150	2800	2650	2320	2070	1880	1650	1330	1070	580					
6	60	025	1.09	0.60	0.53	0.45	0.40	0.37	0.32	0.26	0.21				
		032	2.69	1.49	1.32	1.13	1.00	0.91	0.80	0.66					
	90	025	1.09	0.75	0.67	0.57	0.51	0.46	0.41	0.35	0.30				
		032	2.69	1.86	1.65	1.41	1.26	1.15	1.02	0.86	0.75				
		040	10.9	6.52	6.11	5.85	5.65	5.48	5.20	4.03	2.98	0.81			
		050	19.9	12.1	11.3	10.9	10.5	10.2	9.8	8.8	7.4	3.8			
		063	85.1	43.4	38.5	32.8	29.1	26.4	23.1	18.3	14.3	6.3			
		080	164	98.7	92.5	84.4	75.0	68.1	59.6	47.4	37.3	17.7			
		110	591	263	234	198	175	158	135	100	67				
		140	950	436	385	325	284	252	209	131					
		180	2860	1090	960	800	690	610	480	220					
		250	5840	2570	2240	1830	1520	1240	790						
		Option	Circular Pitch and Pitches time												

● RGIS flange shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
6	120	025	2.89	1.78	1.60	1.36	1.21	1.11	0.99	0.82	0.71	
		032	7.41	4.61	4.14	3.53	3.15	2.88	2.57	2.16	1.89	
		040	41.6	24.7	22.2	18.9	16.9	15.4	13.7	11.4	9.9	7.4
		050	67.0	41.1	36.9	31.5	28.1	25.7	22.8	19.1	16.5	12.6
		063	119	59.1	53.0	45.2	40.3	36.8	32.6	27.0	22.9	16.2
		080	262	188	176	150	134	122	109	90	78	57
		110	738	410	368	313	279	254	224	182	149	90
		140	1640	822	737	626	556	505	441	347	269	
		180	4270	2210	1980	1680	1480	1340	1150	860	600	
		250	10400	3570	3180	2670	2320	2030	1620			
	150	025	3.76	2.56	2.35	2.00	1.79	1.64	1.46	1.23	1.08	
		032	7.41	5.09	4.66	3.98	3.55	3.25	2.90	2.46	2.17	
		040	41.6	27.2	24.9	21.3	19.0	17.4	15.5	13.0	11.4	9.1
		050	67.0	45.2	41.4	35.3	31.5	28.8	25.7	21.7	19.1	15.3
		063	129	102	99	90	81	74	66	56	49	39
		080	262	207	198	169	151	138	123	103	90	71
		110	738	451	413	352	314	287	254	211	180	130
		140	1640	907	830	707	629	574	506	413	343	218
		180	4270	2440	2230	1890	1680	1530	1340	1070	840	
		250	10400	3930	3580	3030	2660	2380	2010	1370		
	180	025	3.76	2.73	2.54	2.17	1.94	1.78	1.59	1.35	1.19	
		032	7.41	5.42	5.05	4.31	3.85	3.53	3.15	2.67	2.37	
		040	41.6	28.9	26.9	23.0	20.5	18.8	16.8	14.2	12.5	10.2
		050	67.0	47.9	44.6	38.1	34.0	31.2	27.8	23.6	20.8	17.1
		063	129	109	107	98	87	80	71	60	53	44
		080	431	268	249	213	190	174	155	131	116	94
		110	903	606	564	481	430	393	350	294	256	201
		140	2230	1190	1110	950	840	770	680	570	490	360
		180	4270	2590	2410	2050	1830	1670	1470	1200	1000	630
		250	10400	4170	3870	3290	2910	2620	2260	1690	1170	
	210	025	3.76	2.86	2.70	2.30	2.06	1.88	1.68	1.43	1.27	
		032	7.41	5.66	5.34	4.56	4.07	3.73	3.33	2.84	2.52	
		040	41.6	30.1	28.5	24.3	21.7	19.9	17.7	15.1	13.3	11.1
		050	67.0	49.9	47.1	40.2	35.9	32.9	29.4	24.9	22.1	18.4
		063	129	113	113	103	92	84	75	64	57	47
		080	431	279	263	225	201	184	164	139	123	102
		110	903	631	596	508	454	416	370	313	275	221
		140	2230	1240	1170	1000	890	820	730	610	530	410
		180	4270	2700	2550	2170	1940	1770	1570	1300	1100	780
		250	10400	4340	4090	3480	3090	2800	2440	1910	1450	
	240	025	3.76	2.94	2.79	2.40	2.15	1.97	1.76	1.49	1.33	
		032	7.41	5.83	5.52	4.75	4.25	3.89	3.48	2.96	2.64	
		040	41.6	31.0	29.4	25.3	22.6	20.7	18.5	15.7	14.0	11.7
		050	67.0	51.3	48.5	41.8	37.4	34.2	30.6	26.0	23.1	19.4
		063	129	116	116	107	96	88	78	67	59	50
		080	431	287	271	234	209	191	171	145	129	108
		110	903	649	614	529	473	433	386	327	289	236
		140	2230	1280	1210	1040	930	850	760	640	560	450
		180	4270	2780	2630	2270	2020	1850	1640	1370	1180	890
		250	10400	4470	4220	3630	3220	2930	2570	2060	1650	

Product specifications

Roller gear cam drive	Compact	
	Standard	
	Table	
	Wide angle	
Parallel cam drive	Basic	
	Pick and Place drive	
Option	Linear	
	Circular	

Output torque table

● RGIS flange shaft (1 dwell)

Cam curve/MS

Product specifications		Cam curve/MS														
		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)										
						Input shaft rotational speed (rpm)										
						30	60	90	120	150	200	300	400	600		
Roller gear cam drive	Compact	6	270	025	3.76	3.01	2.85	2.48	2.22	2.03	1.81	1.55	1.38			
				032	7.41	5.95	5.64	4.91	4.39	4.02	3.59	3.06	2.73			
	Standard			040	41.6	31.7	30.0	26.1	23.3	21.4	19.1	16.2	14.4	12.1		
				050	67.0	52.3	49.5	43.1	38.5	35.3	31.5	26.8	23.9	20.1		
	Table			063	129	119	119	111	99	91	81	69	61	52		
				080	431	293	277	241	216	198	176	150	133	112		
	Wide angle			110	1270	825	781	680	608	557	497	422	374	311		
				140	2230	1310	1240	1080	960	880	790	660	580	470		
	Basic			180	4270	2840	2690	2340	2090	1910	1700	1430	1240	960		
				250	10400	4560	4310	3740	3330	3040	2680	2180	1790	1100		
Parallel cam drive	Circular Pitch and Paces time	8	300	025	3.76	3.06	2.90	2.55	2.27	2.08	1.86	1.59	1.41			
				032	7.41	6.05	5.73	5.03	4.50	4.12	3.68	3.14	2.80			
	Option			040	41.6	32.1	30.4	26.7	23.9	21.9	19.6	16.7	14.8	12.5		
				050	67.0	53.1	50.2	44.2	39.5	36.2	32.3	27.5	24.5	20.7		
				063	129	120	120	113	101	93	83	71	63	53		
				080	431	297	281	247	221	203	181	154	137	115		
				110	1270	838	793	697	623	571	510	433	385	321		
				140	2230	1330	1260	1100	990	900	810	680	600	490		
				180	4270	2890	2730	2400	2140	1960	1750	1470	1290	1020		
				250	10400	4620	4370	3840	3420	3120	2760	2270	1900	1280		
Option		8	45	032	1.39	0.76	0.67	0.57	0.50	0.46	0.39	0.30				
				60	032	1.39	0.89	0.79	0.68	0.60	0.55	0.48	0.39	0.32		
				90	025	2.13	1.31	1.16	0.99	0.88	0.80	0.71	0.58	0.48		
					032	4.77	2.95	2.63	2.24	2.00	1.82	1.62	1.34	1.15		
					040	10.9	7.76	7.28	6.99	6.77	6.59	6.31	5.09	4.08	2.18	
					050	50.1	30.8	27.4	23.3	20.8	19.0	16.8	13.8	11.6	7.9	
					063	85.1	51.6	45.8	39.0	34.7	31.7	27.9	22.7	18.7	11.4	
					080	164	117	110	101	90	82	72	59	48	30	
					110	359	257	238	202	179	163	141	109	81		
					140	950	519	460	390	343	309	263	187	114		
			180	2100	1050	930	780	680	600	490	280					
			250	4150	2180	1900	1570	1310	1090	740						
Option		8	120	025	2.13	1.49	1.35	1.15	1.03	0.94	0.84	0.70	0.61			
				032	4.77	3.35	3.05	2.60	2.32	2.13	1.89	1.59	1.40			
				040	30.6	20.0	18.1	15.5	13.8	12.6	11.2	9.4	8.1	6.2		
				050	50.1	34.7	31.6	26.9	24.0	22.0	19.6	16.4	14.3	11.0		
				063	85.1	58.3	53.0	45.2	40.3	36.9	32.7	27.3	23.5	17.5		
				080	242	174	158	135	120	110	98	82	71	53		
				110	591	354	321	274	244	222	196	161	134	86		
				140	1160	745	677	576	512	465	408	326	260	134		
	180	2100	1190	1080	920	810	730	620	450	290						
	250	4150	2460	2220	1860	1620	1420	1130	590							

● RGIS flange shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)							
				Input shaft rotational speed (rpm)							
				30	60	90	120	150	200	300	400 600
8	150	025	2.13	1.60	1.48	1.27	1.13	1.03	0.92	0.78	0.68
		032	4.77	3.59	3.33	2.85	2.54	2.33	2.08	1.76	1.55
		040	30.6	21.3	19.8	16.9	15.1	13.8	12.3	10.4	9.1 7.3
		050	50.1	37.1	34.4	29.3	26.2	24.0	21.4	18.1	15.9 12.8
		063	85.1	62.3	57.8	49.3	44.0	40.3	35.9	30.2	26.4 20.9
		080	242	186	172	147	131	120	107	90	79 63
		110	591	378	350	299	266	244	216	180	155 114
		140	1160	798	740	630	561	512	453	372	313 210
		180	2860	1580	1460	1240	1100	1000	880	700	550 260
		250	5840	3680	3400	2880	2540	2290	1950	1410	900
	180	025	2.13	1.67	1.57	1.34	1.20	1.10	0.98	0.83	0.73
		032	4.77	3.75	3.54	3.02	2.70	2.47	2.20	1.87	1.66
		040	30.6	22.2	21.0	17.9	16.0	14.6	13.1	11.1	9.8 8.0
		050	50.1	38.5	36.4	31.0	27.7	25.4	22.6	19.2	17.0 14.0
		063	85.1	64.9	61.2	52.2	46.6	42.7	38.1	32.2	28.4 23.1
		080	242	193	182	156	139	127	114	96	85 70
		110	738	513	484	413	369	337	300	253	221 176
		140	1640	1040	980	830	740	680	600	500	440 330
		180	2860	1640	1550	1320	1170	1070	940	770	640 400
		250	5840	3830	3600	3060	2710	2460	2130	1640	1220
	210	025	2.13	1.72	1.62	1.40	1.25	1.15	1.02	0.87	0.77
		032	4.77	3.85	3.65	3.14	2.81	2.57	2.30	1.96	1.74
		040	30.6	22.8	21.6	18.6	16.6	15.2	13.6	11.5	10.2 8.5
		050	50.1	39.5	37.4	32.3	28.8	26.4	23.6	20.0	17.8 14.8
		063	85.1	66.6	63.0	54.3	48.6	44.5	39.7	33.7	29.8 24.6
		080	242	199	188	162	145	133	118	101	89 74
		110	738	527	498	430	384	351	313	265	233 189
		140	1640	1060	1010	870	770	710	630	530	460 360
		180	2860	1690	1600	1380	1230	1120	990	820	690 480
		250	5840	3930	3710	3190	2830	2580	2260	1800	1420 690
	240	025	2.13	1.75	1.66	1.45	1.29	1.18	1.06	0.90	0.80
		032	4.77	3.92	3.71	3.24	2.90	2.65	2.37	2.02	1.80
		040	30.6	23.2	22.0	19.2	17.1	15.7	14.0	11.9	10.6 8.9
		050	50.1	40.2	38.1	33.2	29.7	27.2	24.3	20.7	18.4 15.4
		063	85.1	67.8	64.2	56.0	50.0	45.8	40.9	34.8	30.8 25.7
		080	242	202	191	167	149	137	122	104	92 77
		110	738	536	507	443	395	362	323	274	242 199
		140	1640	1080	1030	890	800	730	650	550	480 390
		180	2860	1720	1630	1420	1270	1160	1030	860	740 550
		250	5840	3990	3780	3290	2930	2670	2350	1900	1560 930
	270	025	2.13	1.77	1.68	1.48	1.32	1.21	1.08	0.92	0.82
		032	4.77	3.97	3.76	3.32	2.97	2.72	2.43	2.07	1.84
		040	30.6	23.5	22.3	19.6	17.5	16.1	14.4	12.2	10.9 9.1
		050	50.1	40.7	38.5	34.0	30.4	27.8	24.9	21.2	18.8 15.9
		063	85.1	68.6	65.0	57.3	51.2	46.9	41.9	35.6	31.7 26.5
		080	262	249	246	217	194	178	159	135	121 101
		110	738	542	513	453	405	371	331	281	249 207
		140	1640	1100	1040	920	820	750	670	570	500 410
		180	2860	1740	1650	1450	1300	1190	1050	880	770 590
		250	5840	4040	3820	3370	3000	2740	2420	1990	1660 1100

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive

Linear

Option

Output torque table

Index series

● RGIS flange shaft (1 dwell)

Cam curve/MS

Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
						Input shaft rotational speed (rpm)									
						30	60	90	120	150	200	300	400	600	
Compact	Standard	8	300	025	2.89	2.43	2.30	2.03	1.83	1.68	1.50	1.28	1.14		
				032	4.77	4.01	3.80	3.36	3.02	2.77	2.48	2.11	1.88		
				040	30.6	23.7	22.5	19.9	17.9	16.4	14.6	12.5	11.1	9.4	
				050	50.1	41.1	38.9	34.4	30.9	28.3	25.3	21.6	19.2	16.2	
				063	85.1	69.2	65.5	58.0	52.2	47.8	42.7	36.3	32.3	27.2	
				080	262	252	249	220	198	181	162	138	123	104	
				110	738	547	518	459	412	378	337	287	254	212	
				140	1640	1110	1050	930	830	760	680	580	510	420	
				180	2860	1760	1660	1470	1320	1210	1080	910	790	620	
				250	5840	4080	3860	3410	3060	2790	2470	2050	1740	1230	
Table	Wide angle	8	330	025	2.89	2.44	2.31	2.05	1.86	1.70	1.52	1.30	1.16		
				032	4.77	4.04	3.83	3.39	3.07	2.82	2.52	2.14	1.91		
				040	30.6	23.9	22.6	20.0	18.2	16.6	14.9	12.7	11.3	9.5	
				050	50.1	41.3	39.1	34.6	31.4	28.8	25.7	21.9	19.5	16.5	
				063	85.1	69.7	66.0	58.4	53.0	48.5	43.4	36.9	32.9	27.7	
				080	262	253	250	222	201	184	165	140	125	106	
				110	738	551	522	462	419	384	342	291	259	217	
				140	1640	1120	1060	940	850	780	690	590	520	430	
				180	2860	1770	1680	1480	1340	1230	1100	920	810	650	
				250	5840	4110	3890	3440	3110	2840	2520	2100	1800	1330	
Basic	Parallel cam drive	9	90	032	2.70	1.78	1.58	1.35	1.20	1.10	0.97	0.79	0.67		
				040	10.9	8.22	7.72	7.42	7.20	7.01	6.74	5.49	4.49	2.66	
				050	37.9	23.3	20.8	17.7	15.8	14.4	12.7	10.4	8.7	5.7	
				063	63.6	41.1	36.5	31.1	27.7	25.2	22.2	17.9	14.6	8.5	
				080	152	79.2	70.4	59.9	53.2	48.4	42.4	33.8	26.8	13.2	
				110	331	224	199	169	149	135	117	90	66	15	
				140	760	422	374	317	279	250	212	149	87		
				180	1490	894	791	664	578	509	411	228			
				250	4150	2310	2030	1670	1420	1200	860				
				025	1.49	1.08	0.99	0.84	0.75	0.69	0.61	0.51	0.44		
Option	Linear, Circular and Rack and Pinion drive	9	120	032	2.70	1.98	1.81	1.54	1.38	1.26	1.12	0.94	0.81		
				040	10.9	9.12	8.80	8.47	8.24	8.05	7.79	6.52	5.59	4.12	
				050	37.9	25.8	23.6	20.1	18.0	16.4	14.6	12.2	10.6	8.1	
				063	63.6	45.5	41.6	35.5	31.6	28.9	25.6	21.3	18.3	13.3	
				080	152	87.8	80.2	68.4	60.9	55.6	49.2	40.7	34.4	24.0	
				110	359	302	288	245	218	199	176	144	121	79	
				140	760	469	428	364	323	293	255	200	153		
				180	2100	1240	1130	960	850	760	660	490	340		
				250	4150	2560	2320	1950	1700	1500	1220	700			
				025	2.13	1.65	1.54	1.31	1.17	1.07	0.95	0.81	0.71		
		9	150	032	3.66	2.84	2.65	2.26	2.02	1.85	1.65	1.40	1.23		
				040	10.9	9.65	9.50	9.15	8.91	8.72	8.46	7.15	6.24	4.91	
				050	37.9	27.3	25.4	21.7	19.4	17.7	15.8	13.3	11.7	9.4	
				063	85.1	64.1	59.7	51.0	45.5	41.7	37.1	31.3	27.5	22.0	
				080	164	146	144	131	117	107	96	81	71	57	
				110	359	319	311	265	236	216	192	160	138	102	
				140	950	649	605	515	459	419	370	303	254	168	
				180	2100	1310	1220	1040	920	840	730	580	450	210	
				250	5840	3780	3510	2980	2630	2380	2040	1510	1020		

● RGIS flange shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
	180	025	2.13	1.71	1.62	1.38	1.23	1.13	1.01	0.85	0.76	
		032	4.77	3.83	3.63	3.10	2.77	2.54	2.26	1.92	1.71	
		040	10.9	9.98	9.98	9.63	9.37	9.18	8.92	7.58	6.67	5.40
		050	51.5	39.3	37.2	31.8	28.4	26.0	23.2	19.7	17.5	14.5
		063	85.1	66.2	62.7	53.6	47.9	43.8	39.1	33.1	29.2	23.9
		080	164	151	151	138	123	113	101	85	75	62
		110	359	330	326	278	249	227	202	170	148	116
		140	950	671	635	542	484	442	392	326	280	205
		180	2860	1680	1590	1360	1210	1100	970	800	660	430
		250	5840	3910	3690	3140	2790	2530	2200	1720	1310	470
	210	025	2.13	1.75	1.65	1.43	1.28	1.17	1.05	0.89	0.79	
		032	4.77	3.92	3.71	3.21	2.87	2.63	2.35	2.00	1.78	
		040	30.6	23.2	21.9	19.0	17.0	15.6	13.9	11.8	10.5	8.7
		050	51.5	40.1	38.0	32.9	29.4	27.0	24.1	20.5	18.2	15.2
		063	85.1	67.6	64.0	55.5	49.6	45.4	40.5	34.4	30.5	25.3
		080	164	154	154	143	128	117	105	89	79	65
		110	359	337	333	288	258	236	210	177	156	125
		140	1160	868	821	712	635	581	517	435	379	297
		180	2860	1720	1620	1410	1250	1140	1010	840	720	510
		250	5840	3990	3770	3260	2900	2640	2310	1860	1490	800
9	240	025	2.13	1.77	1.68	1.47	1.32	1.21	1.08	0.92	0.81	
		032	4.77	3.97	3.76	3.30	2.95	2.70	2.42	2.06	1.83	
		040	30.6	23.5	22.3	19.5	17.5	16.0	14.3	12.1	10.8	9.0
		050	51.5	40.7	38.5	33.8	30.2	27.7	24.7	21.0	18.7	15.7
		063	85.1	68.6	65.0	57.0	50.9	46.7	41.6	35.4	31.5	26.3
		080	164	156	156	147	131	120	107	91	81	68
		110	359	341	338	296	265	242	216	183	161	131
		140	1160	881	834	731	653	598	532	449	395	317
		180	2860	1740	1650	1440	1290	1180	1050	870	760	570
		250	5840	4040	3820	3350	2980	2720	2400	1960	1620	1020
	270	025	2.13	1.79	1.70	1.50	1.34	1.23	1.10	0.94	0.83	
		032	4.77	4.02	3.80	3.37	3.01	2.76	2.47	2.10	1.87	
		040	30.6	23.7	22.5	19.9	17.8	16.3	14.6	12.4	11.1	9.3
		050	51.5	41.1	38.9	34.4	30.8	28.3	25.2	21.5	19.1	16.1
		063	85.1	69.3	65.6	58.1	52.0	47.6	42.5	36.2	32.2	27.0
		080	164	158	158	150	134	123	110	93	83	70
		110	359	345	341	302	270	247	221	187	166	136
		140	1160	890	842	746	667	611	545	461	406	331
		180	2860	1760	1670	1470	1320	1200	1070	900	780	610
		250	5840	4080	3860	3410	3050	2780	2460	2030	1710	1170
	300	025	2.13	1.81	1.71	1.51	1.37	1.25	1.12	0.95	0.85	
		032	4.77	4.05	3.83	3.39	3.07	2.81	2.51	2.14	1.91	
		040	30.6	23.9	22.6	20.1	18.1	16.6	14.8	12.6	11.3	9.5
		050	51.5	41.4	39.2	34.7	31.3	28.7	25.7	21.9	19.5	16.5
		063	85.1	69.8	66.1	58.5	52.9	48.4	43.3	36.9	32.8	27.6
		080	164	159	159	151	136	125	112	95	85	71
		110	591	423	400	354	320	293	262	222	197	164
		140	1160	897	849	751	679	622	554	470	416	342
		180	2860	1770	1680	1480	1340	1230	1090	920	810	640
		250	5840	4110	3890	3440	3100	2830	2510	2090	1780	1290

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive

Linear

Circular

Option

Output torque table

● RGIS flange shaft (1 dwell)

Cam curve/MS

Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
						Input shaft rotational speed (rpm)									
						30	60	90	120	150	200	300	400	600	
Compact	Standard	9	330	025	2.13	1.82	1.72	1.52	1.39	1.27	1.14	0.97	0.86		
				032	4.77	4.07	3.85	3.41	3.11	2.85	2.55	2.17	1.94		
				040	30.6	24.1	22.8	20.2	18.4	16.8	15.0	12.8	11.4	9.7	
				050	51.5	41.6	39.4	34.9	31.8	29.1	26.0	22.2	19.8	16.8	
				063	85.1	70.2	66.4	58.8	53.6	49.1	43.9	37.4	33.3	28.1	
				080	164	160	160	152	138	127	113	97	86	73	
				110	591	425	402	356	325	297	266	226	201	168	
				140	1160	902	854	756	689	631	563	478	423	351	
				180	2860	1780	1690	1490	1360	1250	1110	940	820	660	
				250	5840	4130	3910	3460	3150	2880	2560	2130	1840	1380	
Table	Wide angle	10	90	032	2.70	1.86	1.66	1.41	1.26	1.15	1.02	0.84	0.71		
				040	10.2	7.92	7.08	6.02	5.35	4.86	4.25	3.37	2.65	1.23	
				050	12.8	10.5	9.9	9.6	9.3	9.0	8.7	7.1	5.8	3.5	
				063	25.3	20.0	18.9	18.1	17.5	17.1	16.3	15.0	12.8	7.4	
				080	108	72.4	64.7	55.0	48.9	44.5	39.0	31.2	24.8	12.7	
				110	225	178	168	153	136	123	107	82	61	16	
				140	462	362	337	285	251	226	192	135	81		
				180	1220	738	655	549	477	419	336	177			
				250	3910	1990	1750	1450	1220	1030	730				
				025	1.49	1.12	1.03	0.87	0.78	0.71	0.63	0.53	0.46		
Basic	Parallel cam drive	10	120	032	2.70	2.04	1.87	1.60	1.42	1.30	1.16	0.97	0.85		
				040	10.9	9.39	9.10	8.76	8.52	8.33	8.07	6.77	5.84	4.39	
				050	37.9	26.6	24.4	20.8	18.6	17.0	15.1	12.7	11.0	8.5	
				063	63.6	46.9	43.0	36.7	32.7	29.9	26.6	22.2	19.1	14.2	
				080	152	90.4	83.0	70.7	63.1	57.6	51.1	42.3	36.1	25.9	
				110	331	255	234	199	177	162	143	117	97	62	
				140	760	483	443	377	335	304	266	210	164	74	
				180	1490	1020	940	790	700	630	540	400	270		
				250	4150	2630	2400	2020	1770	1570	1290	790			
				025	1.49	1.18	1.10	0.94	0.84	0.77	0.68	0.58	0.51		
Option	Linear, Circular, Rack and Pinion drive	10	150	032	2.70	2.14	2.01	1.71	1.53	1.40	1.25	1.06	0.93		
				040	10.9	9.85	9.75	9.39	9.14	8.94	8.68	7.35	6.44	5.12	
				050	37.9	27.8	26.1	22.2	19.9	18.2	16.2	13.7	12.0	9.7	
				063	63.6	49.1	46.0	39.3	35.1	32.1	28.6	24.1	21.0	16.7	
				080	152	94.8	88.9	75.8	67.6	61.9	55.0	46.2	40.2	31.1	
				110	359	326	318	272	242	222	197	165	142	108	
				140	760	508	475	405	360	329	290	237	197	125	
				180	1490	1080	1010	860	760	690	600	470	370	150	
				250	4150	2760	2580	2180	1920	1730	1480	1060	670		
				025	1.49	1.21	1.15	0.99	0.88	0.81	0.72	0.61	0.54		
		10	180	032	3.66	2.99	2.83	2.43	2.17	1.99	1.78	1.51	1.34		
				040	10.9	10.1	10.1	9.8	9.6	9.4	9.1	7.7	6.8	5.6	
				050	37.9	28.6	27.1	23.2	20.8	19.0	17.0	14.4	12.7	10.5	
				063	85.1	67.2	63.6	54.7	48.8	44.7	39.9	33.8	29.9	24.6	
				080	152	97.5	92.3	79.3	70.8	64.8	57.7	48.7	42.8	34.3	
				110	359	335	331	284	254	232	207	174	152	120	
				140	950	682	645	554	494	451	401	334	288	215	
				180	2100	1380	1310	1120	1000	910	800	660	540	350	
				250	4150	2840	2680	2290	2030	1840	1590	1220	890		

● RGIS flange shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
10	210	025	2.13	1.77	1.67	1.46	1.30	1.19	1.07	0.91	0.80	
		032	3.66	3.05	2.88	2.51	2.24	2.06	1.84	1.56	1.39	
		040	10.9	10.3	10.3	10.1	9.9	9.7	9.4	8.0	7.1	5.9
		050	37.9	29.1	27.5	24.0	21.4	19.6	17.5	14.9	13.2	11.0
		063	85.1	68.4	64.8	56.4	50.4	46.2	41.2	35.0	31.1	25.8
		080	164	156	156	146	130	119	106	90	80	67
		110	359	341	337	293	262	240	214	181	159	129
		140	950	694	657	572	511	467	415	349	304	236
		180	2100	1410	1330	1160	1030	940	830	690	590	420
		250	5840	4030	3810	3310	2950	2680	2360	1910	1550	890
10	240	025	2.13	1.79	1.70	1.49	1.34	1.22	1.09	0.93	0.83	
		032	3.66	3.08	2.92	2.57	2.30	2.11	1.88	1.60	1.43	
		040	10.9	10.4	10.4	10.4	10.1	9.9	9.6	8.2	7.3	6.1
		050	37.9	29.4	27.9	24.6	21.9	20.1	17.9	15.3	13.6	11.4
		063	85.1	69.2	65.5	57.8	51.6	47.3	42.2	35.9	31.9	26.7
		080	164	158	158	149	133	122	109	93	82	69
		110	359	345	341	300	268	246	219	186	164	135
		140	950	703	665	586	523	479	427	360	315	252
		180	2100	1420	1350	1190	1060	970	860	720	620	460
		250	5840	4080	3860	3390	3020	2760	2440	2000	1670	1090
10	270	025	2.13	1.81	1.71	1.51	1.36	1.25	1.12	0.95	0.85	
		032	3.66	3.11	2.94	2.61	2.34	2.15	1.92	1.64	1.46	
		040	10.9	10.5	10.5	10.5	10.3	10.1	9.8	8.4	7.5	6.3
		050	37.9	29.7	28.1	24.9	22.4	20.5	18.3	15.6	13.9	11.7
		063	85.1	69.8	66.1	58.5	52.6	48.2	43.1	36.7	32.6	27.4
		080	164	159	159	151	136	124	111	95	84	71
		110	359	347	343	304	273	250	223	190	168	139
		140	950	709	671	594	534	489	436	368	324	263
		180	2100	1430	1360	1200	1080	990	880	740	640	490
		250	5840	4110	3890	3440	3090	2820	2490	2060	1750	1230
10	300	025	2.13	1.82	1.72	1.52	1.38	1.27	1.13	0.97	0.86	
		032	3.66	3.13	2.96	2.62	2.38	2.18	1.95	1.66	1.48	
		040	10.9	10.6	10.6	10.6	10.5	10.3	10.0	8.5	7.6	6.4
		050	37.9	29.8	28.2	25.0	22.7	20.8	18.6	15.8	14.1	11.9
		063	85.1	70.2	66.5	58.9	53.4	49.0	43.7	37.3	33.2	28.0
		080	164	160	160	152	138	126	113	96	86	72
		110	359	349	346	306	278	254	227	193	171	143
		140	950	713	675	598	542	497	443	375	332	272
		180	2100	1440	1370	1210	1100	1000	890	750	660	520
		250	5840	4140	3910	3460	3140	2870	2540	2120	1820	1340
10	330	025	2.13	1.83	1.73	1.53	1.40	1.29	1.15	0.98	0.87	
		032	3.66	3.14	2.98	2.64	2.41	2.21	1.98	1.69	1.50	
		040	10.9	10.6	10.6	10.6	10.6	10.4	10.1	8.7	7.7	6.5
		050	37.9	30.0	28.4	25.1	23.0	21.1	18.8	16.0	14.3	12.1
		063	85.1	70.5	66.8	59.1	54.1	49.6	44.3	37.8	33.7	28.5
		080	164	161	161	153	140	128	114	98	87	73
		110	359	351	347	307	281	258	230	196	174	146
		140	950	717	678	601	550	504	449	381	338	279
		180	2100	1450	1370	1210	1110	1020	910	770	670	540
		250	5840	4150	3930	3480	3180	2910	2580	2160	1870	1420

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive

Option

Output torque table

● RGIS flange shaft (1 dwell)

Cam curve/MS

Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
						Input shaft rotational speed (rpm)									
						30	60	90	120	150	200	300	400	600	
Roller gear cam drive	Compact	90	032	1.89	1.38	1.25	1.06	0.95	0.86	0.76	0.63	0.53			
			040	7.19	6.13	5.52	4.69	4.17	3.79	3.31	2.61	2.03	0.88		
			050	12.8	11.1	10.6	10.2	9.9	9.6	9.3	7.7	6.4	4.3		
			063	25.3	21.2	20.2	19.4	18.8	18.4	17.7	16.3	14.3	9.2		
			080	108	77.0	69.4	59.1	52.6	47.9	42.2	34.2	28.0	16.6		
			110	225	189	180	164	146	132	116	91	71	30		
			140	462	385	362	307	271	245	210	155	104			
			180	976	602	539	452	392	344	275					
			250	2870	1710	1520	1260	1070	900	650					
	Standard	120	032	1.89	1.49	1.38	1.17	1.05	0.96	0.85	0.71	0.62			
			040	7.19	6.49	6.01	5.12	4.56	4.16	3.67	3.02	2.52	1.70		
			050	12.8	11.7	11.5	11.1	10.8	10.5	10.2	8.6	7.4	5.7		
			063	25.3	22.8	22.2	21.4	20.8	20.3	19.7	18.6	16.8	12.7		
			080	108	82.5	76.4	65.1	58.1	53.1	47.1	39.2	33.6	24.6		
			110	225	203	198	181	161	147	130	107	89	59		
			140	462	414	400	340	302	275	241	192	152	76		
			180	976	646	596	504	444	399	338	237				
			250	2870	1830	1680	1410	1230	1090	880	500				
	Table	150	032	1.89	1.54	1.46	1.24	1.11	1.02	0.91	0.76	0.67			
			040	10.2	9.14	8.64	7.37	6.57	6.01	5.35	4.49	3.90	3.02		
			050	12.8	12.1	12.1	11.6	11.3	11.1	10.8	9.1	8.0	6.4		
			063	25.3	23.6	23.5	22.7	22.1	21.6	20.9	19.9	18.3	14.5		
			080	108	85.5	80.8	68.9	61.5	56.3	50.1	42.1	36.7	28.7		
			110	225	210	209	191	171	156	139	116	99	74		
			140	462	429	423	361	321	293	259	212	177	117		
			180	1220	875	826	702	623	566	494	388	299			
			250	3910	2340	2200	1870	1650	1480	1270	920	580			
	Wide angle	180	032	1.89	1.58	1.49	1.29	1.15	1.06	0.94	0.80	0.71			
			040	10.2	9.30	8.80	7.62	6.80	6.23	5.55	4.68	4.11	3.29		
			050	12.8	12.3	12.3	12.0	11.7	11.5	11.1	9.5	8.4	6.8		
			063	25.3	24.1	24.1	23.5	22.9	22.4	21.8	20.8	19.2	15.7		
			080	108	87.3	82.6	71.5	63.9	58.5	52.1	44.0	38.7	31.2		
			110	331	280	265	230	205	188	167	141	123	97		
			140	760	534	505	437	390	356	316	263	226	168		
			180	1220	894	845	730	650	592	521	421	343	200		
			250	3910	2390	2260	1940	1720	1560	1350	1040	770			
	Basic	210	032	1.89	1.60	1.51	1.33	1.19	1.09	0.97	0.82	0.73			
			040	10.2	9.40	8.90	7.81	6.98	6.39	5.70	4.82	4.26	3.47		
			050	12.8	12.4	12.4	12.3	12.0	11.7	11.4	9.7	8.6	7.1		
			063	25.3	24.4	24.4	24.2	23.5	23.0	22.4	21.5	19.9	16.5		
			080	108	88.4	83.7	73.5	65.6	60.1	53.6	45.4	40.1	32.9		
			110	331	284	269	236	211	193	172	145	128	103		
			140	760	541	512	449	401	367	326	274	238	185		
			180	1220	906	857	751	669	611	540	444	372	249		
			250	3910	2420	2290	2000	1780	1620	1410	1120	880	420		
Option	Parallel cam drive	Circular	Peak and Phase time												

● RGIS flange shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
12	240	032	1.89	1.61	1.52	1.35	1.21	1.11	0.99	0.84	0.75	
		040	10.2	9.47	8.96	7.93	7.11	6.52	5.81	4.93	4.37	3.61
		050	12.8	12.5	12.5	12.5	12.2	12.0	11.7	10.0	8.8	7.4
		063	25.3	24.6	24.6	24.6	24.0	23.5	22.9	22.0	20.4	17.0
		080	108	89.2	84.4	74.7	67.0	61.4	54.8	46.5	41.2	34.2
		110	331	286	271	240	215	197	176	149	131	108
		140	760	545	516	457	409	375	334	281	246	196
		180	1220	914	865	764	684	625	554	460	392	283
		250	3910	2440	2310	2040	1820	1660	1460	1180	960	560
	270	032	1.89	1.62	1.53	1.36	1.23	1.13	1.01	0.86	0.76	
		040	10.9	10.6	10.6	10.6	10.5	10.3	10.0	8.5	7.6	6.4
		050	19.9	19.5	19.5	19.5	19.3	18.9	18.4	15.9	14.1	11.9
		063	25.3	24.7	24.7	24.7	24.4	23.9	23.3	22.4	20.8	17.4
		080	108	89.7	84.9	75.2	68.1	62.4	55.7	47.4	42.1	35.1
		110	331	288	273	241	219	200	179	152	134	111
		140	760	549	519	460	417	381	340	287	253	205
		180	1220	919	870	769	697	637	565	472	408	307
		250	3910	2450	2320	2050	1850	1690	1490	1220	1020	670
	300	032	2.70	2.33	2.21	1.95	1.79	1.64	1.46	1.25	1.11	
		040	10.9	10.7	10.7	10.7	10.6	10.4	10.2	8.7	7.7	6.5
		050	19.9	19.6	19.6	19.6	19.5	19.1	18.6	16.1	14.3	12.1
		063	63.6	53.2	50.4	44.6	40.8	37.4	33.4	28.5	25.3	21.4
		080	152	103	97	86	79	72	65	55	49	41
		110	331	289	274	242	222	203	181	154	137	114
		140	760	551	522	462	423	387	345	292	258	211
		180	1490	1170	1110	980	890	820	730	610	540	420
		250	4150	2980	2820	2490	2280	2080	1850	1530	1310	950
	330	032	2.70	2.34	2.21	1.96	1.80	1.66	1.48	1.26	1.13	
		040	10.9	10.7	10.7	10.7	10.7	10.6	10.3	8.8	7.8	6.6
		050	19.9	19.6	19.6	19.6	19.6	19.4	18.9	16.3	14.5	12.3
		063	63.6	53.4	50.5	44.7	41.0	37.9	33.8	28.8	25.7	21.7
		080	152	103	98	86	79	73	65	56	50	42
		110	331	290	275	243	223	206	184	156	139	116
		140	760	553	523	463	425	392	349	296	262	216
		180	1490	1170	1110	980	900	830	740	620	550	440
		250	4150	2990	2830	2500	2290	2110	1870	1560	1350	1010
15	90	080	31.8	28.4	27.2	26.2	25.3	24.6	23.5	21.4	18.2	10.0
		110	143	109	99	84	74	67	58	44	31	
		140	285	254	244	221	195	176	151	110	73	
		180	591	523	494	415	362	320	260	150		
		250	1630	1130	1010	830	700	580	400			
	120	080	80.0	63.7	59.6	50.8	45.3	41.4	36.7	30.5	26.1	19.1
		110	200	130	121	103	92	84	74	60	49	29
		140	285	266	263	239	213	193	169	134	105	48
		180	591	550	535	453	400	360	307	222	140	
		250	2020	1510	1400	1180	1030	910	740	430		
	150	080	80.0	65.2	61.7	53.1	47.4	43.3	38.6	32.4	28.2	22.0
		110	200	133	126	108	96	88	78	64	55	38
		140	420	357	338	290	258	236	208	171	143	95
		180	976	688	650	557	494	449	391	307	237	
		250	2020	1540	1450	1240	1090	980	830	580	340	

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive
Linear Circular

Option

Output torque table

Index series

● RGIS flange shaft (1 dwell)

Cam curve/MS

Product specifications		Rated dynamic output torque (N·m)													
		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Input shaft rotational speed (rpm)									
						30	60	90	120	150	200	300	400	600	
Roller gear cam drive	Compact	15	180	080	80.0	66.1	62.5	54.7	48.8	44.7	39.8	33.6	29.6	23.8	
				110	200	134	127	111	99	91	80	67	58	44	
				140	420	362	342	299	267	244	216	180	154	112	
				180	976	697	659	575	512	466	410	331	270	156	
				250	2020	1560	1470	1280	1140	1030	890	670	470		
	Standard		210	080	80.0	66.6	63.0	55.8	49.9	45.7	40.8	34.6	30.5	25.0	
				110	200	135	128	113	101	93	82	69	60	47	
				140	420	365	345	305	273	250	222	186	161	124	
				180	976	704	665	588	525	479	423	348	291	194	
				250	2870	1980	1870	1650	1470	1340	1170	930	740	360	
	Table		240	080	80.0	67.0	63.4	56.1	50.8	46.6	41.6	35.3	31.2	25.9	
				110	200	136	129	114	103	94	84	71	62	50	
				140	420	367	347	307	278	254	227	191	167	132	
				180	976	708	669	592	535	489	433	359	306	220	
				250	2870	1990	1880	1660	1500	1370	1200	980	800	480	
	Wide angle		270	080	80.0	67.2	63.6	56.3	51.6	47.3	42.2	35.9	31.8	26.5	
				110	200	136	129	114	105	96	85	72	64	52	
				140	420	368	348	308	282	258	230	194	171	137	
				180	976	710	672	594	544	497	441	368	317	238	
				250	2870	2000	1890	1670	1530	1390	1230	1010	850	560	
	Basic		300	080	80.0	67.4	63.8	56.5	51.8	47.8	42.7	36.3	32.3	27.1	
				110	200	137	129	115	105	97	86	73	65	53	
				140	420	369	349	309	283	262	233	197	174	142	
				180	976	712	674	596	546	504	448	376	326	252	
				250	2870	2010	1900	1680	1530	1410	1250	1040	880	620	
Parallel cam drive	Basic		330	080	80.0	67.5	63.9	56.6	51.9	48.4	43.2	36.8	32.7	27.5	
				110	200	137	130	115	105	98	87	74	66	54	
				140	420	370	350	310	284	265	236	200	177	145	
				180	976	714	676	598	548	510	454	382	333	262	
				250	2870	2010	1900	1680	1540	1430	1270	1060	910	660	
	Option		90	080	31.8	28.7	27.7	26.6	25.7	25.0	24.0	21.9	18.7	10.8	
				110	143	110	101	85	76	68	59	45	33		
				140	305	267	257	233	206	185	159	116	75.4		
				180	591	530	503	423	369	327	268	161			
				250	1630	1140	1030	850	720	600	420				
	Circular		120	080	31.8	30.0	29.7	28.5	27.7	27.1	26.1	24.5	21.9	15.8	
				110	143	115	107	91	81	74	65	53	43	25	
				140	285	268	266	242	215	196	171	137	108	53	
				180	591	554	541	459	405	365	313	229	150		
				250	1630	1190	1110	930	810	710	570	300			
	Peak and Pause time		150	080	31.8	30.6	30.6	29.8	28.9	28.3	27.4	26.0	23.7	18.4	
				110	143	117	110	95	85	77	69	57	48	33	
				140	285	274	274	253	225	205	181	149	124	81	
				180	591	567	559	480	426	387	337	263	200		
				250	2020	1550	1460	1250	1100	990	840	600	370		
Option	Linear	Circular	180	080	80.0	66.3	62.8	55.1	49.2	45.0	40.1	33.9	29.8	24.1	
				110	143	118	112	98	87	80	71	59	51	38	
				140	285	277	277	260	232	212	188	156	133	97	
				180	591	574	566	496	441	401	353	284	230	128	
				250	2020	1570	1480	1290	1140	1030	900	680	490		

● RGIS flange shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
16	210	080	80.0	66.8	63.2	56.0	50.2	46.0	41.0	34.8	30.7	25.2
		110	200	136	128	114	102	93	83	70	61	48
		140	285	279	279	265	237	217	193	162	140	107
		180	591	578	571	504	452	412	364	298	249	162
		250	2020	1580	1490	1320	1170	1070	930	730	570	240
	240	080	80.0	67.1	63.5	56.2	51.1	46.8	41.8	35.5	31.4	26.1
		110	200	136	129	114	104	95	84	71	63	50
		140	285	281	281	266	242	221	197	166	145	114
		180	591	581	574	507	460	420	372	308	262	185
		250	2020	1590	1500	1320	1200	1090	960	770	620	340
	270	080	80.0	67.3	63.7	56.4	51.7	47.5	42.4	36.0	32.0	26.7
		110	200	137	129	114	105	96	86	73	64	52
		140	285	282	282	267	245	224	200	169	148	119
		180	976	712	673	596	545	499	444	371	320	242
		250	2020	1590	1510	1330	1220	1110	980	800	660	420
	300	080	80.0	67.5	63.9	56.6	51.9	48.0	42.9	36.5	32.5	27.2
		110	200	137	130	115	105	97	87	74	65	54
		140	285	282	282	268	245	227	203	171	151	123
		180	976	713	675	597	547	506	450	378	329	255
		250	2020	1600	1510	1330	1220	1130	1000	820	690	470
	330	080	80.0	67.6	64.0	56.7	52.0	48.6	43.4	36.9	32.9	27.6
		110	200	137	130	115	105	98	88	75	66	55
		140	285	283	283	268	246	230	205	174	153	126
		180	976	715	676	599	548	512	456	384	336	266
		250	2020	1600	1510	1340	1220	1140	1010	840	710	510

Product specifications

Option	Pick and Place drive Linear Circular	Parallel cam drive		Roller gear cam drive			Compact
		Basic	Wide angle	Table	Standard		

● RGIS flange shaft (2 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				15	30	45	60	75	100	150	200	300
16	270	025	2.89	2.40	2.27	2.01	1.85	1.70	1.52	1.29	1.15	0.98
		032	4.77	3.97	3.76	3.33	3.06	2.81	2.51	2.14	1.91	1.62
		040	30.6	23.5	22.3	19.7	18.1	16.6	14.8	12.6	11.3	9.5
		050	50.1	40.7	38.5	34.1	31.3	28.7	25.7	21.9	19.5	16.6
		063	119	78.3	74.1	65.6	60.2	55.2	49.4	42.1	37.5	31.8
		080	242	205	194	172	157	144	129	110	98	83
		110	591	416	393	348	319	293	262	223	198	166
		140	1640	1100	1040	920	840	770	690	590	520	440
		180	2860	1740	1650	1460	1340	1230	1090	930	820	660
		250	5840	4040	3830	3390	3100	2840	2520	2120	1840	1410
	300	025	2.89	2.43	2.30	2.03	1.87	1.73	1.55	1.32	1.18	1.00
		032	4.77	4.01	3.80	3.36	3.09	2.86	2.56	2.18	1.95	1.65
		040	30.6	23.7	22.5	19.9	18.2	16.9	15.1	12.9	11.5	9.8
		050	50.1	41.1	38.9	34.4	31.6	29.3	26.1	22.3	19.9	16.9
		063	119	79.0	74.8	66.2	60.7	56.3	50.3	42.9	38.3	32.4
		080	262	252	249	220	202	187	167	143	127	108
		110	738	547	518	459	421	390	348	297	264	223
		140	1640	1110	1050	930	850	790	700	600	530	450
		180	2860	1760	1660	1470	1350	1250	1120	950	840	690
		250	5840	4080	3860	3420	3130	2900	2580	2170	1890	1490
	330	025	2.89	2.44	2.31	2.05	1.88	1.76	1.57	1.34	1.20	1.02
		032	4.77	4.04	3.83	3.39	3.11	2.91	2.60	2.22	1.98	1.68
		040	30.6	23.9	22.6	20.0	18.4	17.2	15.3	13.1	11.7	9.9
		050	50.1	41.3	39.1	34.6	31.8	29.7	26.5	22.6	20.2	17.2
		063	119	79.5	75.3	66.7	61.1	57.2	51.1	43.6	38.9	33.0
		080	262	253	250	222	203	190	170	145	129	110
		110	738	551	522	462	424	396	354	301	269	227
		140	1640	1120	1060	940	860	800	720	610	540	460
		180	2860	1770	1680	1480	1360	1270	1130	960	850	710
		250	5840	4110	3890	3440	3150	2940	2620	2210	1940	1550
18	120	025	1.49	1.08	1.02	0.87	0.78	0.71	0.63	0.54	0.47	0.38
		032	3.66	2.68	2.53	2.16	1.93	1.76	1.57	1.33	1.18	0.97
		040	10.9	9.12	9.08	8.75	8.52	8.34	8.10	6.86	6.02	4.81
		050	37.9	25.8	24.4	20.8	18.6	17.0	15.1	12.8	11.3	9.2
		063	85.1	60.6	57.1	48.7	43.5	39.9	35.5	30.0	26.4	21.4
		080	152	87.8	82.8	70.6	63.1	57.7	51.3	43.1	37.6	29.4
		110	359	302	297	253	226	207	184	154	133	102
		140	950	612	577	492	439	400	354	293	248	174
		180	2100	1240	1170	990	880	800	710	570	460	250
		250	4150	2560	2410	2040	1800	1620	1390	1020	670	
	150	025	2.13	1.65	1.56	1.35	1.21	1.11	0.99	0.84	0.74	0.62
		032	3.66	2.84	2.69	2.33	2.09	1.91	1.71	1.45	1.29	1.08
		040	10.9	9.65	9.65	9.45	9.20	9.01	8.77	7.47	6.60	5.42
		050	37.9	27.3	25.8	22.4	20.0	18.3	16.4	13.9	12.3	10.2
		063	85.1	64.1	60.6	52.6	47.0	43.1	38.4	32.6	28.9	23.9
		080	164	146	146	136	121	111	99	84	75	62
		110	359	319	315	274	244	224	199	168	148	118
		140	950	649	614	532	475	434	386	324	281	215
		180	2100	1310	1240	1080	960	880	770	640	540	370
		250	5840	3780	3570	3090	2750	2500	2190	1760	1400	730

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive

Linear

Circular

Option

Output torque table

● RGIS flange shaft (2 dwell)

Cam curve/MS

Index number		Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
					Input shaft rotational speed (rpm)								
					15	30	45	60	75	100	150	200	300
Product specifications	Compact	180	025	2.13	1.71	1.62	1.42	1.27	1.17	1.04	0.89	0.79	0.66
			032	4.77	3.83	3.63	3.20	2.86	2.62	2.34	1.99	1.78	1.50
			040	30.6	22.7	21.5	18.9	16.9	15.5	13.9	11.8	10.5	8.8
			050	51.5	39.3	37.2	32.8	29.3	26.9	24.0	20.4	18.2	15.3
			063	85.1	66.2	62.7	55.3	49.4	45.3	40.4	34.4	30.6	25.6
			080	164	151	151	143	127	117	104	89	79	66
			110	359	330	326	287	257	235	210	178	157	129
			140	1160	849	804	709	633	579	516	436	384	310
	Standard	210	180	2860	1680	1590	1400	1250	1140	1020	850	740	560
			250	5840	3910	3690	3250	2900	2640	2330	1910	1590	1040
			025	2.13	1.75	1.65	1.46	1.32	1.21	1.08	0.92	0.82	0.69
			032	4.77	3.92	3.71	3.28	2.96	2.72	2.43	2.07	1.84	1.56
			040	30.6	23.2	21.9	19.4	17.5	16.1	14.4	12.2	10.9	9.2
			050	51.5	40.1	38.0	33.6	30.4	27.8	24.9	21.2	18.9	16.0
			063	85.1	67.6	64.0	56.7	51.2	46.9	41.9	35.7	31.8	26.7
			080	164	154	154	146	132	121	108	92	82	69
	Table	240	110	591	410	388	343	310	284	253	215	191	159
			140	1160	868	822	727	656	601	536	454	401	330
			180	2860	1720	1620	1440	1300	1190	1060	890	780	610
			250	5840	3990	3770	3340	3000	2740	2430	2020	1720	1230
	Wide angle	270	025	2.13	1.77	1.68	1.49	1.36	1.24	1.11	0.95	0.85	0.72
			032	4.77	3.97	3.76	3.33	3.04	2.79	2.49	2.13	1.90	1.61
			040	30.6	23.5	22.3	19.7	18.0	16.5	14.7	12.6	11.2	9.5
			050	51.5	40.7	38.5	34.1	31.2	28.6	25.5	21.8	19.4	16.4
			063	85.1	68.6	65.0	57.5	52.6	48.2	43.0	36.7	32.7	27.6
			080	164	156	156	148	136	124	111	95	84	71
			110	591	416	393	348	318	292	260	221	197	165
			140	1160	881	834	738	674	618	551	468	415	344
	Basic	300	180	2860	1740	1650	1460	1330	1220	1090	920	810	650
			250	5840	4040	3830	3380	3090	2820	2510	2090	1810	1360
	Parallel cam drive	330	025	2.13	1.79	1.70	1.50	1.38	1.27	1.14	0.97	0.86	0.73
			032	4.77	4.02	3.80	3.37	3.09	2.85	2.55	2.17	1.94	1.65
			040	30.6	23.7	22.5	19.9	18.3	16.9	15.1	12.8	11.5	9.7
			050	51.5	41.1	38.9	34.4	31.6	29.2	26.1	22.2	19.8	16.8
			063	85.1	69.3	65.6	58.1	53.3	49.2	43.9	37.4	33.4	28.3
			080	164	158	158	150	137	127	113	97	86	73
			110	591	420	397	352	323	298	266	226	201	169
			140	1160	890	843	746	684	631	563	479	425	355
	Option	360	180	2860	1760	1670	1470	1350	1250	1110	940	830	680
			250	5840	4080	3860	3420	3130	2880	2570	2150	1870	1460
			025	2.13	1.81	1.71	1.51	1.39	1.29	1.16	0.99	0.88	0.75
			032	4.77	4.05	3.83	3.39	3.11	2.90	2.59	2.21	1.97	1.68
			040	30.6	23.9	22.7	20.1	18.4	17.1	15.3	13.1	11.7	9.9
			050	51.5	41.4	39.2	34.7	31.8	29.6	26.5	22.6	20.2	17.1
			063	85.1	69.8	66.1	58.5	53.7	50.0	44.7	38.1	34.0	28.8
			080	164	159	159	151	138	129	115	98	88	74
			110	591	423	400	354	325	303	270	230	205	173
			140	1160	897	849	752	689	642	573	488	434	364
			180	2860	1770	1680	1490	1360	1270	1130	960	850	700
			250	5840	4110	3890	3440	3160	2940	2610	2200	1930	1530

RGIS flange shaft (2 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
				Input shaft rotational speed (rpm)									
				15	30	45	60	75	100	150	200	300	
18	330	025	2.13	1.82	1.72	1.52	1.40	1.31	1.17	1.00	0.89	0.76	
		032	4.77	4.07	3.85	3.41	3.13	2.93	2.63	2.24	2.00	1.71	
		040	30.6	24.1	22.8	20.2	18.5	17.3	15.5	13.3	11.8	10.1	
		050	51.5	41.6	39.4	34.9	32.0	29.9	26.9	22.9	20.5	17.4	
		063	85.1	70.2	66.4	58.8	54.0	50.5	45.3	38.7	34.5	29.3	
		080	164	160	160	152	139	130	117	100	89	76	
		110	591	425	402	356	327	306	274	234	208	176	
		140	1160	902	854	756	693	648	582	495	441	371	
		180	2860	1780	1690	1490	1370	1280	1150	980	860	720	
		250	5840	4130	3910	3460	3170	2960	2650	2240	1970	1590	
20	90	040	10.2	7.92	7.31	6.23	5.55	5.07	4.48	3.70	3.12	2.15	
		050	19.9	15.8	15.4	14.9	14.5	14.2	13.7	11.7	10.2	7.9	
		063	25.3	20.0	19.5	18.7	18.2	17.8	17.2	16.2	14.5	10.7	
		080	108	72.4	66.8	56.9	50.8	46.4	41.1	34.0	28.9	20.4	
		110	225	178	174	158	141	129	113	92	76	47	
		140	462	362	349	296	263	239	208	164	126	51	
		180	1220	739	680	575	507	456	388	276	169		
		250	3910	1990	1820	1530	1340	1180	960	550			
	120	025	1.49	1.12	1.06	0.90	0.81	0.74	0.66	0.56	0.49	0.40	
		032	2.70	2.04	1.93	1.65	1.47	1.35	1.20	1.02	0.90	0.74	
		040	10.9	9.39	9.39	9.05	8.81	8.63	8.38	7.12	6.26	5.04	
		050	37.9	26.6	25.1	21.5	19.2	17.6	15.7	13.3	11.7	9.6	
		063	63.6	46.9	44.4	37.9	33.8	31.0	27.6	23.3	20.5	16.4	
		080	152	90.4	85.6	73.1	65.2	59.7	53.1	44.7	39.1	30.9	
		110	331	255	241	206	184	168	149	125	108	82	
		140	760	483	457	390	348	317	281	231	195	133	
	150	180	1490	1020	970	830	730	670	590	470	370	190	
		250	4150	2630	2490	2110	1870	1690	1450	1080	750		
		180	025	1.49	1.18	1.11	0.97	0.87	0.79	0.71	0.60	0.53	0.44
			032	3.66	2.90	2.75	2.40	2.14	1.96	1.75	1.49	1.32	1.11
			040	10.9	9.85	9.85	9.70	9.44	9.25	9.00	7.67	6.79	5.60
			050	37.9	27.8	26.3	23.0	20.5	18.8	16.8	14.3	12.6	10.5
			063	63.6	49.1	46.5	40.6	36.2	33.2	29.6	25.1	22.2	18.3
			080	152	94.8	89.8	78.3	69.9	64.0	57.1	48.3	42.6	34.8
	110		359	326	322	280	250	229	204	173	152	123	
	140		760	508	480	418	373	341	303	254	219	166	
	180	180	2100	1340	1270	1100	980	900	800	660	560	390	
		250	4150	2760	2610	2270	2010	1830	1600	1270	990	450	
180		025	1.49	1.21	1.15	1.02	0.91	0.83	0.74	0.63	0.56	0.47	
		032	3.66	2.99	2.83	2.51	2.24	2.05	1.83	1.56	1.39	1.17	
		040	10.9	10.1	10.1	10.1	9.9	9.7	9.4	8.0	7.1	6.0	
		050	37.9	28.6	27.1	24.0	21.4	19.6	17.5	14.9	13.3	11.1	
		063	63.6	50.5	47.8	42.4	37.9	34.7	31.0	26.3	23.4	19.5	
		080	152	97.6	92.3	81.7	73.1	67.0	59.8	50.8	45.0	37.3	
	110	359	335	331	293	262	240	214	182	161	132		
	140	950	682	645	571	511	467	416	352	309	248		
180	180	2100	1380	1310	1160	1030	940	840	700	610	460		
	250	4150	2840	2680	2370	2110	1920	1690	1380	1130	690		

Product specifications

Roller gear cam drive	Table	Standard	Compact
Wide angle	Table	Basic	Parallel cam drive
Option	Pick and Place drive	Linear	Circular

● RGIS flange shaft (2 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				15	30	45	60	75	100	150	200	300
24	90	032	1.89	1.38	1.29	1.10	0.98	0.90	0.80	0.67	0.58	0.45
		040	7.19	6.13	5.70	4.86	4.33	3.95	3.49	2.88	2.42	1.64
		050	12.8	11.1	10.9	10.5	10.2	10.0	9.7	8.2	7.1	5.4
		063	25.3	21.2	20.9	20.1	19.5	19.1	18.5	17.5	15.9	12.1
		080	80.0	57.6	53.6	45.7	40.7	37.2	32.9	27.2	23.1	16.2
		110	200	119	110	94	83	76	67	53	43	22
		140	462	386	374	318	283	258	226	181	144	75
		180	976	602	559	473	417	375	318	226		
		250	2870	1710	1580	1330	1160	1030	840	490		
	120	032	1.89	1.49	1.41	1.21	1.08	0.99	0.88	0.74	0.65	0.50
		040	7.19	6.49	6.14	5.29	4.72	4.32	3.84	3.21	2.79	2.10
		050	12.8	11.7	11.7	11.4	11.1	10.9	10.6	9.0	7.9	6.4
		063	25.3	22.8	22.8	22.1	21.5	21.1	20.5	19.5	18.0	14.5
		080	108	82.5	78.1	67.2	60.0	55.0	48.9	41.3	36.2	28.8
		110	225	203	203	187	167	153	136	114	99	76
		140	462	414	409	352	314	286	254	210	178	125
		180	1220	844	798	685	609	554	486	389	310	160
		250	3910	2260	2140	1830	1620	1460	1260	950	660	
	150	032	2.70	2.21	2.09	1.84	1.64	1.50	1.34	1.14	1.01	0.85
		040	10.2	9.14	8.65	7.60	6.79	6.22	5.55	4.70	4.14	3.38
		050	12.8	12.1	12.1	12.0	11.7	11.4	11.1	9.5	8.4	7.0
		063	63.6	50.5	47.8	42.0	37.6	34.4	30.7	26.1	23.1	19.2
		080	108	85.5	80.9	71.1	63.5	58.2	51.9	44.0	38.9	31.9
		110	225	210	210	198	177	162	144	122	107	86
		140	462	429	424	373	333	304	270	226	196	150
		180	1220	876	828	727	647	591	522	429	359	240
		250	3910	2340	2210	1940	1720	1570	1370	1090	850	400
	180	032	2.70	2.25	2.13	1.89	1.70	1.56	1.39	1.19	1.06	0.89
		040	10.2	9.30	8.80	7.79	7.03	6.44	5.74	4.88	4.32	3.58
		050	12.8	12.3	12.3	12.3	12.1	11.8	11.5	9.8	8.7	7.3
		063	63.6	51.6	48.8	43.2	39.0	35.7	31.9	27.1	24.1	20.2
		080	108	87.3	82.6	73.1	66.0	60.4	53.9	45.8	40.6	33.8
		110	225	214	214	203	183	168	150	127	112	92
		140	462	438	433	384	346	316	282	237	208	166
		180	1490	1130	1070	950	850	780	690	580	500	380
		250	3910	2390	2260	2000	1790	1630	1440	1170	970	600
	210	032	2.70	2.28	2.16	1.91	1.75	1.61	1.43	1.22	1.09	0.92
		040	10.2	9.40	8.90	7.88	7.20	6.60	5.89	5.01	4.45	3.72
		050	12.8	12.4	12.4	12.4	12.4	12.1	11.8	10.1	9.0	7.6
		063	63.6	52.2	49.5	43.8	40.0	36.7	32.8	27.9	24.8	20.9
		080	152	101	95	85	77	71	63	54	48	40
		110	225	217	217	206	188	172	154	131	116	96
		140	760	541	512	453	414	379	338	286	253	206
		180	1490	1150	1080	960	880	800	710	600	520	410
		250	4150	2930	2770	2450	2240	2040	1810	1500	1280	920
	240	032	2.70	2.30	2.18	1.93	1.77	1.64	1.46	1.25	1.11	0.94
		040	10.2	9.47	8.96	7.93	7.28	6.73	6.01	5.12	4.55	3.82
		050	12.8	12.5	12.5	12.5	12.5	12.4	12.0	10.3	9.2	7.8
		063	63.6	52.7	49.9	44.2	40.5	37.5	33.5	28.5	25.4	21.5
		080	152	102	96	85	78	72	65	55	49	41
		110	225	219	219	208	190	176	157	134	119	99
		140	760	545	516	457	419	387	346	293	260	215
		180	1490	1160	1090	970	890	820	730	620	540	440
		250	4150	2950	2800	2470	2260	2090	1860	1550	1340	1010

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive

Linear

Circular

Option

Output torque table

● RGIS flange shaft (2 dwell)

Cam curve/MS

Cam curve/MS															
Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
						Input shaft rotational speed (rpm)									
						15	30	45	60	75	100	150	200	300	
Roller gear cam drive	Compact	24	270	032	2.70	2.32	2.20	1.94	1.78	1.67	1.49	1.27	1.13	0.96	
				040	10.2	9.51	9.01	7.97	7.31	6.84	6.11	5.20	4.63	3.91	
				050	37.9	29.9	28.3	25.1	23.0	21.5	19.2	16.4	14.6	12.4	
				063	63.6	53.0	50.2	44.4	40.7	38.1	34.0	29.0	25.9	21.9	
				080	152	102	97	86	79	74	66	56	50	42	
				110	225	220	220	209	191	179	160	136	121	102	
				140	760	549	520	460	422	394	352	299	265	221	
				180	1490	1160	1100	970	890	830	740	630	560	450	
				250	4150	2970	2810	2490	2280	2130	1890	1590	1380	1080	
	Standard	300	032	2.70	2.33	2.21	1.95	1.79	1.67	1.51	1.29	1.15	0.98		
			040	10.2	9.55	9.04	8.00	7.34	6.86	6.19	5.27	4.70	3.97		
			050	37.9	30.1	28.5	25.2	23.1	21.6	19.5	16.6	14.8	12.6		
			063	63.6	53.2	50.4	44.6	40.9	38.3	34.5	29.4	26.2	22.3		
			080	152	103	97	86	79	74	67	57	51	43		
			110	331	289	274	242	222	208	187	160	142	120		
			140	760	551	522	462	424	396	357	304	270	226		
			180	1490	1170	1110	980	900	840	750	640	570	470		
			250	4150	2980	2820	2500	2290	2140	1920	1620	1420	1120		
	Wide angle	330	032	2.70	2.34	2.21	1.96	1.80	1.68	1.53	1.30	1.16	0.99		
			040	10.2	9.57	9.06	8.02	7.36	6.88	6.26	5.33	4.76	4.03		
			050	37.9	30.2	28.5	25.3	23.2	21.7	19.7	16.8	15.0	12.8		
			063	63.6	53.4	50.5	44.7	41.0	38.4	34.9	29.8	26.6	22.6		
			080	152	103	98	86	79	74	67	57	51	44		
			110	331	290	275	243	223	209	190	162	144	122		
			140	760	553	524	463	425	397	361	307	273	230		
			180	1490	1170	1110	980	900	840	760	650	580	480		
			250	4150	2990	2830	2510	2300	2150	1950	1640	1440	1160		
	Basic	90	080	31.8	28.4	28.2	27.1	26.3	25.7	24.8	23.3	20.8	15.0		
			110	143	109	102	87	78	71	62	50	41	24		
			140	285	254	252	230	204	186	163	130	103	51		
			180	591	523	512	434	383	346	296	217	142			
			250	2020	1440	1350	1130	990	880	720	440				
		120	080	80.0	63.7	60.3	52.5	46.8	42.9	38.2	32.2	28.2	22.5		
			110	200	130	123	107	95	87	77	64	55	41		
			140	285	266	266	248	221	202	178	147	124	85		
			180	591	550	543	471	418	380	332	263	207	95		
			250	2020	1510	1420	1230	1090	980	840	620	410			
		150	080	80.0	65.2	61.7	54.6	48.9	44.8	40.0	33.9	29.9	24.5		
			110	200	133	126	111	100	91	81	68	59	47		
	140		420	357	338	299	268	245	217	182	158	121			
180	976		688	651	575	514	469	414	340	285	190				
250	2020		1540	1460	1290	1140	1040	910	710	540	210				
Option	Linear	Circular	Rack and Pinion drive												

Output torque table

Index series

● RGIS flange shaft (2 dwell)

Cam curve/MS

Option			Parallel cam drive		Basic	Wide angle	Roller gear cam drive		Table		Standard	Compact	Product specifications		Cam curve/MS											
															Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)							
																			Input shaft rotational speed (rpm)							
32															240	080	80.0	67.1	63.5	56.2	51.6	48.2	43.2	36.8	32.7	27.6
																110	200	136	129	114	105	98	87	74	66	55
																140	285	281	281	266	244	228	204	173	153	126
																180	591	581	574	508	466	435	388	326	285	224
															270	250	2020	1590	1500	1330	1210	1130	1010	840	710	520
																080	80.0	67.3	63.7	56.4	51.8	48.4	43.8	37.3	33.2	28.1
																110	200	137	129	114	105	98	89	75	67	56
																140	285	282	282	267	245	229	207	176	156	129
															300	180	976	712	674	596	546	510	461	389	342	277
																250	2020	1590	1510	1330	1220	1140	1020	860	740	560
																080	80.0	67.5	63.9	56.6	51.9	48.5	44.3	37.8	33.7	28.5
																110	200	137	130	115	105	98	90	76	68	57
															330	140	285	282	282	268	246	230	210	178	158	132
																180	976	714	675	598	548	512	467	395	349	285
																250	2020	1600	1510	1340	1220	1140	1040	870	760	590
																080	80.0	67.6	64.0	56.7	52.0	48.6	44.6	38.2	34.1	28.9
																110	200	137	130	115	105	98	90	77	69	58
																140	285	283	283	268	246	230	211	180	160	134
																180	976	715	677	599	549	513	470	400	354	292
																250	2020	1600	1510	1340	1230	1140	1050	880	770	610

Option	Pick and Place drive		Parallel cam drive			Roller gear cam drive			Product specifications
	Linear	Circular				Basic	Wide angle	Table	
									Compact

● RGIS flange shaft (3 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				10	20	30	40	50	70	100	140	200
24	300	025	2.89	2.43	2.30	2.03	1.87	1.74	1.54	1.34	1.18	1.02
		032	4.77	4.01	3.80	3.36	3.09	2.89	2.55	2.22	1.95	1.69
		040	30.6	23.7	22.5	19.9	18.2	17.1	15.1	13.1	11.5	10.0
		050	50.1	41.1	38.9	34.4	31.6	29.5	26.1	22.7	19.9	17.3
		063	85.1	69.2	65.5	58.0	53.2	49.8	44.1	38.3	33.5	29.1
		080	262	252	249	220	202	189	167	145	127	110
		110	738	547	518	459	421	393	348	303	265	229
		140	1640	1110	1050	930	850	800	700	610	530	460
		180	2860	1760	1660	1470	1350	1260	1120	970	840	720
		250	5840	4080	3860	3420	3130	2930	2580	2230	1920	1590
	330	025	2.89	2.44	2.31	2.05	1.88	1.76	1.57	1.36	1.20	1.04
		032	4.77	4.04	3.83	3.39	3.11	2.91	2.59	2.26	1.98	1.72
		040	30.6	23.9	22.6	20.0	18.4	17.2	15.3	13.3	11.7	10.1
		050	50.1	41.3	39.1	34.6	31.8	29.7	26.5	23.1	20.2	17.5
		063	85.1	69.7	66.0	58.4	53.6	50.1	44.7	38.9	34.1	29.5
		080	262	253	250	222	203	190	170	148	129	112
		110	738	551	522	462	424	396	354	307	269	233
		140	1640	1120	1060	940	860	800	720	620	540	470
		180	2860	1770	1680	1480	1360	1270	1130	980	860	730
		250	5840	4110	3890	3440	3150	2950	2620	2270	1960	1640
30	120	040	10.9	9.39	9.39	9.22	8.98	8.8	8.43	7.29	6.31	5.3
		050	22.8	19.7	19.7	19.4	18.8	17.9	15.7	13.6	11.8	10.0
		063	63.6	46.9	44.4	38.6	34.5	31.6	27.6	23.9	20.6	17.3
		080	152	90.4	85.6	74.4	66.5	60.9	53.2	45.9	39.6	32.9
		110	359	311	307	267	238	218	191	164	141	116
		140	760	483	457	398	355	324	282	240	201	154
		180	1490	1020	970	840	750	680	590	490	400	270
		250	4150	2630	2490	2160	1920	1740	1480	1190	860	370
	150	025	1.49	1.18	1.11	0.99	0.88	0.81	0.71	0.61	0.53	0.46
		032	3.66	2.90	2.75	2.43	2.18	2.00	1.75	1.52	1.33	1.14
		040	10.9	9.85	9.85	9.85	9.62	9.42	9.04	7.84	6.82	5.82
		050	37.9	27.8	26.3	23.3	20.9	19.2	16.8	14.6	12.7	10.9
		063	85.1	65.4	61.9	54.8	49.1	45.0	39.4	34.2	29.8	25.5
		080	152	94.9	89.8	79.5	71.2	65.2	57.1	49.4	42.9	36.4
		110	359	326	322	285	255	234	205	177	153	129
		140	950	663	627	555	497	455	397	342	294	242
		180	2100	1340	1270	1120	1000	920	800	680	570	450
		250	4150	2760	2610	2310	2060	1880	1620	1350	1060	680
	180	025	2.13	1.73	1.64	1.45	1.32	1.21	1.06	0.92	0.81	0.70
		032	3.66	2.99	2.83	2.51	2.28	2.09	1.83	1.59	1.39	1.20
		040	10.9	10.1	10.1	10.1	10.1	9.9	9.5	8.2	7.2	6.2
		050	37.9	28.6	27.1	24.0	21.8	20.0	17.5	15.2	13.3	11.5
		063	85.1	67.2	63.6	56.4	51.3	47.1	41.2	35.8	31.3	26.9
		080	152	97.6	92.4	81.8	74.5	68.2	59.8	51.8	45.1	38.6
		110	359	335	331	293	267	244	214	186	161	137
		140	950	682	646	571	520	477	417	360	311	261
		180	2100	1380	1310	1160	1050	960	840	720	620	500
		250	4150	2840	2680	2370	2160	1970	1710	1440	1180	860

Product specifications

Compact

Standard

Table

Roller gear cam drive

Wide angle

Basic

Parallel cam drive

Pick and Place drive

Linear

Circular

Option

Output torque table

Index series

● RGIS flange shaft (3 dwell)

Cam curve/MS

Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
						Input shaft rotational speed (rpm)									
						10	20	30	40	50	70	100	140	200	
Compact	Standard	Table	Wide angle	Basic	Parallel cam drive	30	Roller gear cam drive								
Option	Linear, Circular, Pick and Place type	330	210	025	2.13	1.77	1.67	1.48	1.36	1.25	1.10	0.96	0.84	0.72	
				032	3.66	3.05	2.88	2.55	2.34	2.16	1.89	1.65	1.44	1.25	
				040	10.9	10.3	10.3	10.3	10.3	10.2	9.8	8.5	7.4	6.4	
				050	37.9	29.1	27.5	24.4	22.4	20.6	18.1	15.7	13.7	11.9	
				063	85.1	68.4	64.8	57.4	52.6	48.6	42.6	37.0	32.3	27.9	
				080	164	156	156	148	136	125	110	95	83	72	
				110	359	341	337	298	273	252	221	192	167	143	
				140	950	695	657	582	534	492	431	373	324	275	
				180	2100	1410	1330	1180	1080	1000	870	750	650	540	
				250	4150	2890	2730	2420	2210	2040	1770	1510	1270	980	
			240	025	2.13	1.79	1.70	1.50	1.38	1.29	1.13	0.98	0.86	0.74	
				032	3.66	3.08	2.92	2.58	2.37	2.22	1.94	1.69	1.48	1.28	
				040	10.9	10.4	10.4	10.4	10.4	10.4	10.0	8.7	7.6	6.6	
				050	37.9	29.4	27.9	24.7	22.6	21.1	18.5	16.1	14.1	12.2	
				063	85.1	69.2	65.5	58.0	53.2	49.7	43.6	37.9	33.2	28.7	
				080	164	158	158	150	137	128	113	98	86	74	
				110	359	345	341	302	277	258	226	197	172	148	
				140	950	703	666	589	540	505	442	383	334	285	
				180	2100	1420	1350	1190	1090	1020	890	770	670	560	
				250	5840	4080	3860	3420	3130	2920	2550	2190	1870	1530	
			270	025	2.13	1.81	1.71	1.51	1.39	1.30	1.15	1.00	0.88	0.76	
				032	3.66	3.11	2.94	2.61	2.39	2.24	1.98	1.72	1.51	1.31	
				040	10.9	10.5	10.5	10.5	10.5	10.5	10.2	8.9	7.8	6.7	
				050	37.9	29.7	28.1	24.9	22.8	21.3	18.9	16.4	14.4	12.5	
				063	85.1	69.8	66.1	58.5	53.7	50.2	44.4	38.6	33.8	29.3	
				080	164	159	159	151	139	130	115	100	87	76	
				110	359	347	344	304	279	261	231	201	175	151	
				140	950	709	671	594	545	510	451	391	341	292	
				180	2100	1430	1360	1200	1100	1030	910	790	680	580	
				250	5840	4110	3890	3450	3160	2950	2600	2240	1930	1600	
			300	025	2.13	1.82	1.72	1.52	1.40	1.31	1.17	1.02	0.89	0.77	
				032	3.66	3.13	2.96	2.62	2.41	2.25	2.01	1.75	1.53	1.33	
				040	10.9	10.6	10.6	10.6	10.6	10.6	10.4	9.0	7.9	6.8	
				050	37.9	29.8	28.2	25.0	22.9	21.4	19.2	16.7	14.6	12.7	
				063	85.1	70.2	66.5	58.9	54.0	50.5	45.1	39.2	34.4	29.8	
				080	164	160	160	152	139	130	116	101	89	77	
				110	359	349	346	306	281	262	234	204	178	154	
				140	950	713	675	598	548	513	458	398	347	299	
				180	2100	1440	1370	1210	1110	1040	930	800	700	590	
				250	5840	4140	3920	3470	3180	2970	2650	2290	1970	1650	
			330	025	2.13	1.83	1.73	1.53	1.41	1.31	1.19	1.03	0.90	0.78	
				032	3.66	3.14	2.98	2.64	2.42	2.26	2.04	1.77	1.55	1.35	
				040	10.9	10.6	10.6	10.6	10.6	10.6	10.5	9.1	8.0	6.9	
				050	37.9	30.0	28.4	25.1	23.0	21.5	19.4	16.9	14.8	12.8	
				063	85.1	70.5	66.8	59.1	54.2	50.7	45.7	39.8	34.8	30.2	
				080	164	161	161	153	140	131	118	103	90	78	
				110	359	351	347	307	282	264	238	207	181	156	
				140	950	717	679	601	551	515	464	403	352	304	
				180	2100	1450	1370	1220	1110	1040	940	810	710	610	
				250	5840	4160	3930	3480	3190	2980	2680	2320	2010	1690	

● RGIS flange shaft (3 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				10	20	30	40	50	70	100	140	200
36	90	040	7.19	6.13	5.80	4.95	4.42	4.04	3.51	2.99	2.50	1.91
		050	13.1	10.2	9.6	8.2	7.3	6.7	5.8	5.0	4.2	3.3
		063	16.4	14.1	14.1	13.6	13.2	12.9	12.3	10.5	8.8	6.8
		080	80.0	57.6	54.5	46.6	41.5	38.0	33.1	28.2	23.7	18.5
		110	200	119	112	96	85	78	67	56	45	31
		140	420	315	298	254	226	206	177	147	115	72
		180	976	603	569	484	429	388	327	256	172	
		250	2020	1370	1290	1090	950	850	680	460		
	120	032	2.70	2.13	2.01	1.77	1.58	1.45	1.27	1.10	0.95	0.81
		040	10.2	8.87	8.40	7.37	6.58	6.02	5.26	4.54	3.91	3.26
		050	12.8	11.7	11.7	11.6	11.3	11.1	10.6	9.2	8.0	6.7
		063	25.3	22.8	22.8	22.5	22.0	21.5	20.8	20.0	18.1	15.3
		080	108	82.5	78.1	68.5	61.2	56.0	49.0	42.3	36.5	30.5
		110	225	203	203	190	170	156	136	117	100	82
		140	462	414	409	359	320	293	255	217	183	142
		180	1220	844	799	699	623	568	491	411	330	222
	250	3910	2260	2140	1870	1660	1510	1280	1040	760	340	
	150	032	2.70	2.21	2.09	1.85	1.67	1.53	1.34	1.16	1.02	0.87
		040	10.2	9.14	8.65	7.66	6.92	6.34	5.55	4.80	4.17	3.53
		050	12.8	12.1	12.1	12.1	11.9	11.7	11.2	9.7	8.4	7.2
		063	63.6	50.5	47.8	42.4	38.3	35.1	30.7	26.6	23.2	19.8
		080	108	85.5	80.9	71.7	64.7	59.3	51.9	45.0	39.1	33.2
		110	225	210	210	199	180	165	144	125	108	90
		140	462	429	424	376	339	310	271	233	199	163
		180	1220	876	829	733	661	604	525	446	372	282
	250	3910	2340	2220	1960	1760	1610	1380	1150	920	590	
	180	032	2.70	2.25	2.13	1.89	1.73	1.59	1.39	1.21	1.06	0.91
		040	10.2	9.30	8.80	7.79	7.15	6.56	5.75	4.98	4.34	3.71
		050	12.8	12.3	12.3	12.3	12.3	12.1	11.6	10.0	8.8	7.5
		063	63.6	51.6	48.8	43.2	39.6	36.4	31.9	27.7	24.2	20.8
		080	108	87.3	82.6	73.2	67.1	61.6	53.9	46.8	40.8	34.9
		110	225	214	214	203	186	171	150	130	113	96
		140	760	534	505	447	410	376	329	284	246	206
		180	1490	1130	1070	950	870	800	690	600	510	410
	250	3910	2390	2260	2000	1830	1670	1450	1230	1010	740	
	210	032	2.70	2.28	2.16	1.91	1.76	1.63	1.43	1.25	1.09	0.94
		040	10.2	9.40	8.90	7.88	7.23	6.72	5.89	5.11	4.46	3.83
		050	12.8	12.4	12.4	12.4	12.4	12.4	11.9	10.3	9.0	7.8
		063	63.6	52.2	49.5	43.8	40.2	37.4	32.8	28.5	24.9	21.5
		080	152	101	95	85	78	72	63	55	48	41
		110	331	284	269	238	218	203	178	154	135	115
		140	760	541	512	453	415	387	338	293	254	215
		180	1490	1150	1080	960	880	820	710	620	530	440
	250	4150	2930	2770	2450	2250	2090	1820	1550	1310	1040	
	240	032	2.70	2.30	2.18	1.93	1.77	1.66	1.46	1.27	1.11	0.97
		040	10.2	9.47	8.96	7.93	7.28	6.80	6.01	5.22	4.56	3.93
		050	12.8	12.5	12.5	12.5	12.5	12.5	12.1	10.5	9.2	7.9
		063	63.6	52.7	49.9	44.2	40.5	37.9	33.4	29.1	25.4	22.0
		080	152	102	96	85	78	73	65	56	49	42
		110	331	286	271	240	220	206	182	158	138	118
		140	760	545	516	457	419	392	346	300	261	223
		180	1490	1160	1090	970	890	830	730	630	550	460
	250	4150	2950	2800	2470	2270	2120	1860	1600	1360	1100	

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive

Linear

Circular

Option

● RGIS flange shaft (3 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				10	20	30	40	50	70	100	140	200
48	240	080	80.0	67.1	63.5	56.2	51.6	48.2	43.1	37.5	32.8	28.3
		110	200	136	129	114	105	98	87	76	66	57
		140	285	281	281	266	244	228	204	177	154	131
		180	591	581	574	508	466	435	388	335	288	239
		250	2020	1590	1500	1330	1220	1140	1010	860	730	580
	270	080	80.0	67.3	63.7	56.4	51.8	48.4	43.7	38.0	33.3	28.8
		110	200	137	129	114	105	98	89	77	67	58
		140	285	282	282	267	245	229	207	180	156	134
		180	976	712	674	596	547	511	461	399	345	291
		250	2020	1590	1510	1330	1220	1140	1030	880	750	610
	300	080	80.0	67.5	63.9	56.6	51.9	48.5	43.8	38.5	33.7	29.2
		110	200	137	130	115	105	98	89	78	68	59
		140	285	282	282	268	246	230	207	182	159	136
		180	976	714	675	598	548	512	462	404	351	298
		250	2020	1600	1510	1340	1220	1140	1030	900	770	630
	330	080	80.0	67.6	64.0	56.7	52.0	48.6	43.9	38.9	34.1	29.5
		110	200	137	130	115	105	99	89	79	69	59
		140	285	283	283	268	246	230	208	184	161	138
		180	976	715	677	599	549	513	463	409	356	303
		250	2020	1600	1510	1340	1230	1150	1030	910	780	650

Product specifications

Option	Parallel cam drive			Roller gear cam drive		
	Pick and Place drive	Basic	Wide angle	Table	Standard	
Linear	Circular	Compact				

Output torque table

● RGIS flange shaft (4 dwell)

Cam curve/MS

Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)											
						Input shaft rotational speed (rpm)											
						10	15	20	30	40	50	75	100	150			
Compact	Standard	32	180	025	1.49	1.17	1.10	1.01	0.89	0.80	0.73	0.62	0.55	0.47			
				032	2.70	2.13	2.01	1.85	1.63	1.45	1.33	1.14	1.01	0.86			
Table	Wide angle			040	10.9	9.78	9.78	9.78	9.74	9.48	9.29	7.95	7.08	5.96			
				050	50.1	38.5	36.5	33.5	29.5	26.4	24.2	20.6	18.4	15.6			
Basic	Parallel cam drive			063	85.1	64.9	61.4	56.4	49.7	44.4	40.7	34.7	30.9	26.1			
				080	164	148	148	145	128	115	105	89	80	67			
Circular	Peak and Phase time			110	591	393	372	341	301	269	246	210	186	156			
				140	1160	832	787	722	637	568	520	442	391	324			
Option				180	2860	1640	1560	1430	1260	1120	1030	870	760	610			
				250	5840	3830	3620	3320	2920	2600	2370	1980	1710	1280			
Option		32	210	025	2.89	2.33	2.20	2.02	1.79	1.61	1.48	1.26	1.13	0.96			
				032	4.77	3.85	3.65	3.35	2.96	2.67	2.45	2.09	1.87	1.59			
Option				040	30.6	22.8	21.6	19.8	17.5	15.8	14.5	12.4	11.0	9.4			
				050	50.1	39.5	37.4	34.3	30.4	27.4	25.1	21.4	19.1	16.2			
Option				063	85.1	66.6	63.0	57.8	51.2	46.2	42.4	36.1	32.2	27.3			
				080	242	199	188	172	153	138	126	108	96	81			
Option				110	738	527	498	457	405	365	335	285	254	214			
				140	1640	1060	1010	920	820	740	680	580	510	430			
Option				180	2860	1690	1600	1470	1300	1170	1070	910	800	660			
				250	5840	3930	3720	3410	3010	2710	2480	2080	1820	1420			
Option		32	240	025	2.89	2.37	2.24	2.06	1.82	1.67	1.53	1.30	1.16	0.99			
				032	4.77	3.92	3.71	3.41	3.02	2.76	2.53	2.16	1.93	1.64			
Option				040	30.6	23.2	22.0	20.2	17.9	16.3	15.0	12.8	11.4	9.7			
				050	50.1	40.2	38.1	34.9	30.9	28.3	25.9	22.1	19.7	16.8			
Option				063	85.1	67.8	64.2	58.9	52.1	47.6	43.6	37.2	33.2	28.2			
				080	262	246	243	223	198	181	166	141	126	107			
Option				110	738	536	507	465	412	376	345	294	262	222			
				140	1640	1080	1030	940	830	760	700	590	530	450			
Option				180	2860	1720	1630	1490	1320	1210	1100	940	830	690			
				250	5840	4000	3780	3470	3070	2800	2560	2160	1890	1520			
Option		32	270	025	2.89	2.40	2.27	2.09	1.85	1.69	1.56	1.33	1.19	1.01			
				032	4.77	3.97	3.76	3.45	3.06	2.80	2.59	2.21	1.97	1.68			
Option				040	30.6	23.5	22.3	20.4	18.1	16.6	15.3	13.1	11.7	9.9			
				050	50.1	40.7	38.5	35.3	31.3	28.7	26.5	22.6	20.2	17.2			
Option				063	85.1	68.6	65.0	59.6	52.8	48.4	44.7	38.1	34.0	28.9			
				080	262	249	246	226	200	184	169	145	129	110			
Option				110	738	542	514	471	417	382	353	301	268	228			
				140	1640	1100	1040	950	840	770	710	610	540	460			
Option				180	2860	1740	1650	1510	1340	1230	1130	960	850	710			
				250	5840	4040	3830	3510	3110	2840	2620	2220	1950	1590			
Option		32	300	025	2.89	2.43	2.30	2.11	1.87	1.71	1.59	1.36	1.22	1.04			
				032	4.77	4.01	3.80	3.49	3.09	2.83	2.64	2.25	2.01	1.71			
Option				040	30.6	23.7	22.5	20.6	18.2	16.7	15.6	13.3	11.9	10.1			
				050	50.1	41.1	38.9	35.7	31.6	29.0	27.0	23.0	20.6	17.5			
Option				063	85.1	69.2	65.5	60.1	53.2	48.8	45.5	38.8	34.7	29.5			
				080	262	252	249	228	202	185	173	147	132	112			
Option				110	738	547	518	475	421	386	360	307	274	232			
				140	1640	1110	1050	960	850	780	730	620	550	470			
Option				180	2860	1760	1660	1530	1350	1240	1150	980	870	730			
				250	5840	4080	3860	3540	3130	2870	2670	2260	2000	1640			

● RGIS flange shaft (4 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				10	15	20	30	40	50	75	100	150
32	330	025	2.89	2.44	2.31	2.12	1.88	1.72	1.61	1.38	1.24	1.05
		032	4.77	4.04	3.83	3.51	3.11	2.85	2.67	2.29	2.04	1.74
		040	30.6	23.9	22.6	20.7	18.4	16.8	15.8	13.5	12.1	10.3
		050	50.1	41.3	39.1	35.9	31.8	29.1	27.3	23.4	20.9	17.8
		063	85.1	69.7	66.0	60.5	53.6	49.2	46.0	39.4	35.2	30.0
		080	262	253	250	230	203	187	174	150	134	114
		110	738	551	522	479	424	389	363	311	278	236
		140	1640	1120	1060	970	860	790	740	630	560	480
		180	2860	1770	1680	1540	1360	1250	1170	1000	890	750
250	5840	4110	3890	3570	3160	2890	2700	2300	2040	1690		
36	150	032	2.70	2.10	1.99	1.82	1.59	1.42	1.30	1.11	0.99	0.83
		040	10.9	9.65	9.65	9.65	9.50	9.26	9.06	7.75	6.89	5.78
		050	37.9	27.3	25.8	23.7	20.7	18.5	16.9	14.4	12.8	10.8
		063	63.6	48.2	45.6	41.8	36.5	32.6	29.8	25.4	22.6	18.9
		080	152	92.9	88.0	80.7	70.4	62.8	57.5	48.9	43.4	36.2
		110	359	319	315	289	252	225	206	175	155	129
		140	760	497	471	432	376	335	307	259	227	182
		180	2100	1310	1240	1140	990	880	810	680	590	460
		250	4150	2710	2560	2350	2040	1810	1640	1350	1130	740
	180	025	2.13	1.71	1.62	1.48	1.31	1.17	1.08	0.92	0.82	0.69
		032	4.77	3.83	3.63	3.33	2.94	2.64	2.42	2.06	1.84	1.56
		040	30.6	22.7	21.5	19.7	17.4	15.6	14.3	12.2	10.9	9.2
		050	51.5	39.3	37.2	34.1	30.2	27.1	24.8	21.1	18.9	16.0
		063	85.1	66.2	62.7	57.5	50.9	45.6	41.8	35.6	31.7	26.8
		080	164	151	151	148	131	118	108	92	82	69
		110	591	401	380	348	308	276	253	215	191	160
		140	1160	849	804	737	653	584	534	454	403	335
		180	2860	1680	1590	1460	1290	1150	1050	890	790	640
	250	5840	3910	3700	3390	2990	2670	2440	2040	1770	1350	
	210	025	2.13	1.75	1.65	1.52	1.34	1.22	1.12	0.95	0.85	0.72
		032	4.77	3.92	3.71	3.40	3.01	2.73	2.50	2.14	1.91	1.62
		040	30.6	23.2	21.9	20.1	17.8	16.2	14.8	12.6	11.3	9.6
		050	51.5	40.1	38.0	34.9	30.9	28.0	25.7	21.9	19.5	16.6
		063	85.1	67.6	64.0	58.7	52.0	47.2	43.3	36.9	32.9	27.9
		080	164	154	154	152	134	122	112	95	85	72
		110	591	410	388	356	315	286	262	223	199	168
		140	1160	868	822	754	667	605	554	472	419	351
		180	2860	1720	1620	1490	1320	1200	1090	930	820	680
	250	5840	3990	3780	3460	3060	2770	2530	2130	1860	1470	
	240	025	2.13	1.77	1.68	1.54	1.36	1.25	1.15	0.98	0.87	0.74
		032	4.77	3.97	3.76	3.45	3.06	2.80	2.57	2.20	1.96	1.67
		040	30.6	23.5	22.3	20.4	18.1	16.6	15.2	13.0	11.6	9.9
		050	51.5	40.7	38.5	35.3	31.3	28.7	26.3	22.5	20.1	17.1
		063	85.1	68.6	65.0	59.6	52.8	48.4	44.4	37.9	33.8	28.7
		080	164	156	156	154	136	125	115	98	87	74
		110	591	416	394	361	320	293	269	229	204	173
		140	1160	881	834	765	677	621	570	485	432	364
		180	2860	1740	1650	1510	1340	1230	1120	960	850	700
	250	5840	4040	3830	3510	3100	2840	2600	2200	1930	1560	

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive
Linear Circular

Option

Output torque table

● RGIS flange shaft (4 dwell)

Cam curve/MS

Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)										
						Input shaft rotational speed (rpm)										
						10	15	20	30	40	50	75	100	150		
Roller gear cam drive	Compact	48	120	032	1.89	1.49	1.41	1.29	1.12	1.00	0.91	0.78	0.69	0.58		
				040	10.2	8.87	8.40	7.70	6.67	5.95	5.45	4.62	4.09	3.37		
				050	12.8	11.7	11.7	11.7	11.5	11.2	10.9	9.3	8.3	6.9		
				063	25.3	22.8	22.8	22.8	22.2	21.7	21.2	20.3	18.9	15.7		
				080	80.0	61.6	58.3	53.5	46.3	41.3	37.8	32.0	28.3	23.1		
				110	225	203	203	199	172	154	141	119	105	85		
				140	462	414	409	375	324	289	264	222	194	152		
				180	1220	844	799	732	632	562	511	423	360	255		
				250	3910	2260	2140	1960	1690	1490	1350	1090	880	490		
	Standard		150	032	2.70	2.21	2.09	1.92	1.69	1.51	1.39	1.18	1.05	0.89		
				040	10.2	9.14	8.65	7.94	7.01	6.26	5.74	4.88	4.33	3.62		
				050	12.8	12.1	12.1	12.1	12.1	11.8	11.5	9.8	8.8	7.4		
				063	63.6	50.5	47.8	43.9	38.8	34.6	31.7	27.0	24.1	20.3		
				080	108	85.5	81.0	74.2	65.6	58.6	53.7	45.7	40.6	34.0		
				110	225	210	210	206	182	163	149	127	112	93		
				140	462	429	424	389	344	307	281	237	209	170		
				180	1220	876	829	760	670	597	545	457	396	305		
				250	3910	2340	2220	2030	1790	1590	1440	1190	1010	690		
	Table		180	032	2.70	2.25	2.13	1.96	1.73	1.57	1.44	1.23	1.10	0.93		
				040	10.2	9.30	8.80	8.08	7.15	6.48	5.94	5.05	4.50	3.79		
				050	12.8	12.3	12.3	12.3	12.3	12.1	11.9	10.2	9.1	7.7		
				063	63.6	51.6	48.8	44.8	39.7	36.0	32.9	28.1	25.0	21.2		
				080	108	87.3	82.6	75.8	67.1	60.8	55.7	47.5	42.3	35.6		
				110	331	280	266	244	216	195	179	152	135	114		
				140	760	534	505	463	410	372	340	289	256	212		
				180	1490	1130	1070	980	870	790	720	610	530	430		
				250	3910	2390	2260	2070	1830	1650	1510	1260	1080	810		
	Wide angle		210	032	2.70	2.28	2.16	1.98	1.76	1.61	1.48	1.26	1.13	0.96		
				040	10.2	9.40	8.90	8.16	7.23	6.63	6.09	5.19	4.62	3.91		
				050	12.8	12.4	12.4	12.4	12.4	12.4	12.2	10.4	9.3	7.9		
				063	63.6	52.2	49.5	45.4	40.2	36.8	33.8	28.9	25.7	21.8		
				080	152	101	95	88	78	71	65	56	50	42		
				110	331	284	269	247	218	200	184	157	139	118		
				140	760	541	512	470	416	381	350	297	264	221		
				180	1490	1150	1080	990	880	810	740	630	550	460		
				250	4150	2930	2770	2540	2250	2060	1880	1590	1390	1100		
	Basic		240	032	2.70	2.30	2.18	2.00	1.77	1.63	1.51	1.29	1.15	0.98		
				040	10.2	9.47	8.96	8.22	7.28	6.67	6.21	5.29	4.72	4.00		
				050	12.8	12.5	12.5	12.5	12.5	12.5	12.4	10.6	9.5	8.1		
				063	63.6	52.7	49.9	45.7	40.5	37.1	34.5	29.5	26.3	22.3		
				080	152	102	96	88	78	72	67	57	51	43		
				110	331	286	271	249	220	202	188	160	143	121		
				140	760	545	516	474	419	384	357	304	271	227		
				180	1490	1160	1090	1000	890	810	760	640	570	470		
				250	4150	2950	2800	2560	2270	2080	1930	1630	1430	1160		
Option	Parallel cam drive	Linear and Circular	Peak and Phase time													

● RGIS flange shaft (4 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				10	15	20	30	40	50	75	100	150
48	270	032	2.70	2.32	2.20	2.01	1.78	1.64	1.53	1.31	1.17	1.00
		040	10.2	9.51	9.01	8.26	7.31	6.71	6.27	5.38	4.80	4.07
		050	12.8	12.6	12.6	12.6	12.6	12.6	12.6	10.8	9.7	8.2
		063	63.6	53.0	50.2	46.0	40.7	37.4	34.9	30.0	26.8	22.8
		080	152	102	97	89	79	72	67	58	52	44
		110	331	288	273	250	221	203	190	163	145	123
		140	760	549	520	477	422	387	362	310	276	233
		180	1490	1160	1100	1010	890	820	770	650	580	490
		250	4150	2970	2810	2580	2280	2090	1950	1660	1470	1200
	300	032	2.70	2.33	2.21	2.02	1.79	1.64	1.54	1.33	1.19	1.01
		040	10.2	9.55	9.04	8.29	7.34	6.73	6.29	5.45	4.86	4.13
		050	12.8	12.6	12.6	12.6	12.6	12.6	12.6	11.0	9.8	8.3
		063	63.6	53.2	50.4	46.2	40.9	37.5	35.1	30.4	27.1	23.1
		080	152	103	97	89	79	72	68	59	52	45
		110	331	289	274	251	222	204	191	165	147	125
		140	760	551	522	479	424	389	363	314	280	237
		180	1490	1170	1110	1010	900	820	770	660	590	500
		250	4150	2980	2820	2590	2290	2100	1960	1690	1490	1230
	330	032	2.70	2.34	2.21	2.03	1.80	1.65	1.54	1.35	1.20	1.03
		040	10.2	9.57	9.06	8.31	7.36	6.75	6.31	5.51	4.92	4.18
		050	12.8	12.6	12.6	12.6	12.6	12.6	12.6	11.1	9.9	8.4
		063	63.6	53.4	50.5	46.4	41.0	37.6	35.2	30.7	27.5	23.4
		080	152	103	98	90	79	73	68	59	53	45
		110	331	290	275	252	223	205	191	167	149	127
		140	760	553	524	480	425	390	365	318	284	240
		180	1490	1170	1110	1020	900	830	770	670	600	500
		250	4150	2990	2830	2600	2300	2110	1970	1710	1520	1260

Product specifications

Option	Pick and Place drive Linear Circular	Parallel cam drive		Roller gear cam drive			Compact
		Basic	Wide angle	Table	Standard		

RGOS straight shaft

Cam curve/MS

Oscillating angle (deg)	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				15	30	45	60	75	100	150	200	300
60	240	025	2.89	1.78	1.68	1.45	1.30	1.19	1.06	0.90	0.81	0.68
		032	7.41	4.61	4.37	3.76	3.36	3.08	2.75	2.35	2.09	1.77
		040	41.6	24.7	23.4	20.2	18.0	16.5	14.8	12.6	11.2	9.5
		050	67.0	41.1	38.9	33.5	30.0	27.5	24.5	20.9	18.6	15.7
		063	119	59.1	55.9	48.2	43.1	39.5	35.2	29.9	26.6	22.2
		080	262	188	186	160	143	131	117	100	89	74
		110	738	410	388	334	299	274	244	207	183	151
		140	1640	823	779	671	599	548	488	412	362	291
		180	4270	2210	2090	1800	1610	1470	1310	1100	950	740
		250	10400	3580	3390	2910	2590	2370	2090	1710	1420	920
	300	025	3.76	2.56	2.43	2.13	1.91	1.75	1.56	1.33	1.19	1.01
		032	7.41	5.09	4.82	4.24	3.79	3.47	3.10	2.65	2.36	2.00
		040	41.6	27.2	25.8	22.7	20.3	18.6	16.6	14.2	12.6	10.8
		050	67.0	45.2	42.8	37.6	33.6	30.8	27.5	23.5	20.9	17.8
		063	129	102	102	96	86	79	70	60	54	45
		080	262	207	204	180	161	147	132	112	100	84
		110	738	451	427	375	335	307	274	233	207	174
		140	1640	907	859	755	674	618	551	468	414	342
		180	4270	2440	2310	2030	1810	1660	1480	1250	1100	890
		250	10400	3930	3720	3270	2920	2670	2370	1970	1700	1260
	360	025	3.76	2.73	2.59	2.29	2.07	1.89	1.69	1.44	1.29	1.10
		032	7.41	5.42	5.14	4.55	4.10	3.76	3.36	2.87	2.56	2.18
		040	41.6	28.9	27.4	24.3	21.9	20.1	17.9	15.3	13.7	11.6
		050	67.0	47.9	45.4	40.2	36.3	33.2	29.7	25.3	22.6	19.2
		063	129	109	109	103	93	85	76	65	58	49
		080	431	268	253	224	202	185	166	141	126	107
		110	903	606	574	508	458	420	375	320	285	240
		140	2230	1190	1130	1000	900	830	740	630	560	470
		180	4270	2590	2460	2170	1960	1790	1600	1360	1200	990
		250	10400	4180	3950	3500	3150	2880	2570	2160	1880	1480
45	90	032	1.39	0.81	0.72	0.61	0.55	0.50	0.44	0.37	0.31	0.23
		120	1.39	0.93	0.85	0.72	0.65	0.59	0.53	0.44	0.39	0.31
	180	025	2.13	1.31	1.24	1.06	0.94	0.87	0.77	0.66	0.58	0.49
		032	4.77	2.97	2.80	2.39	2.13	1.96	1.75	1.48	1.32	1.10
		040	10.9	7.79	7.77	7.49	7.29	7.15	6.96	5.95	5.30	4.47
		050	50.1	30.9	29.2	24.9	22.2	20.4	18.2	15.5	13.7	11.5
		063	85.1	51.8	48.9	41.7	37.2	34.1	30.4	25.8	22.8	18.8
		080	164	118	117	107	96	88	78	67	59	49
		110	359	258	254	217	194	177	158	133	117	94
		140	950	522	492	420	374	342	304	254	219	165
		180	2100	1060	1000	850	760	690	610	500	420	280
		250	4150	2200	2070	1760	1560	1420	1230	970	740	
	240	025	2.13	1.49	1.41	1.23	1.10	1.01	0.90	0.77	0.68	0.58
		032	4.77	3.35	3.18	2.77	2.48	2.27	2.03	1.73	1.54	1.30
		040	30.6	20.0	18.9	16.5	14.7	13.5	12.1	10.3	9.2	7.8
		050	50.1	34.7	32.9	28.7	25.7	23.5	21.0	17.9	16.0	13.5
		063	85.1	58.3	55.2	48.2	43.1	39.5	35.2	30.0	26.7	22.4
		080	242	174	165	144	128	118	105	89	80	67
		110	591	354	335	292	261	239	213	181	161	133
		140	1160	745	706	616	550	503	449	380	335	272
		180	2100	1190	1130	990	880	800	710	600	520	400
		250	4150	2470	2340	2030	1810	1650	1460	1200	1000	660

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pack and
Linear Circular

Option

● RGOS straight shaft

Cam curve/MS

Oscillating angle (deg)	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				15	30	45	60	75	100	150	200	300
30	360	032	1.89	1.58	1.49	1.32	1.21	1.13	1.01	0.86	0.77	0.65
		040	10.2	9.30	8.81	7.80	7.15	6.65	5.94	5.07	4.53	3.86
		050	12.8	12.3	12.3	12.3	12.3	12.2	11.9	10.2	9.1	7.7
		063	25.3	24.1	24.1	24.1	24.1	23.9	23.3	22.4	21.0	17.8
		080	108	87.3	82.6	73.2	67.1	62.4	55.8	47.5	42.4	36.0
		110	331	280	266	235	216	200	179	153	136	115
		140	760	534	505	447	410	381	341	290	258	216
		180	1220	894	847	749	687	638	569	483	427	351
		250	3910	2390	2260	2000	1830	1700	1520	1280	1120	900

Product specifications

Option	Parallel cam drive		Roller gear cam drive				
	Pick and Place drive	Circular	Basic	Wide angle	Table	Standard	
	Linear						
							Compact

Output torque table

Oscillating series

● RGOS flange shaft

Cam curve/MS

Product specifications			Rated dynamic output torque (N·m)														
			Oscillating angle (deg)	Total index angle (deg)	Size	Static rated output torque (N·m)	Input shaft rotational speed (rpm)										
							15	30	45	60	75	100	150	200	300		
Roller gear cam drive	Compact	Standard	Table	Wide angle	Basic	90	120	180		240		300		360			
								025	032	025	032	025	032	025	032		
								1.09	1.99	1.09	2.69	1.09	2.69	1.09	2.69		
								0.57	1.04	0.63	1.57	0.63	1.57	0.63	1.57		
								0.53	0.96	0.60	1.48	0.59	1.45	0.57	1.45		
	Parallel cam drive	Circular	Pack and	Rack and	Pinion			0.45	0.82	0.51	1.26	0.50	1.24	0.47	1.24		
								0.40	0.73	0.46	1.13	0.45	1.11	0.41	1.02		
								0.37	0.67	0.42	1.03	0.41	0.91	0.37	0.77		
								0.33	0.60	0.37	0.92	0.37	0.79	0.31	0.68		
								0.28	0.51	0.32	0.79	0.28	0.68	0.25	0.57		
Option	Linear	Circular	Pack and	Rack and	Pinion	60	120	0.25	0.45	0.28	0.70	0.25	0.59	0.27	0.59		
								0.23	0.45	0.28	0.70	0.27	0.59	0.27	0.59		
								0.23	0.45	0.28	0.70	0.27	0.59	0.27	0.59		
								0.26	0.45	0.32	0.70	0.32	0.68	0.26	0.57		
								0.66	0.45	0.88	0.78	0.66	0.45	0.88	0.78		
	Parallel cam drive	Circular	Pack and	Rack and	Pinion			0.29	0.73	0.35	0.86	0.35	0.86	0.35	0.86		
								0.29	0.73	0.35	0.86	0.35	0.86	0.35	0.86		
								0.29	0.73	0.35	0.86	0.35	0.86	0.35	0.86		
								0.29	0.73	0.35	0.86	0.35	0.86	0.35	0.86		
								0.29	0.73	0.35	0.86	0.35	0.86	0.35	0.86		
Option	Linear	Circular	Pack and	Rack and	Pinion	60	120	0.29	0.73	0.35	0.86	0.35	0.86	0.35	0.86		
								0.29	0.73	0.35	0.86	0.35	0.86	0.35	0.86		
								0.29	0.73	0.35	0.86	0.35	0.86	0.35	0.86		
								0.29	0.73	0.35	0.86	0.35	0.86	0.35	0.86		
								0.29	0.73	0.35	0.86	0.35	0.86	0.35	0.86		
	Parallel cam drive	Circular	Pack and	Rack and	Pinion			0.29	0.73	0.35	0.86	0.35	0.86	0.35	0.86		
								0.29	0.73	0.35	0.86	0.35	0.86	0.35	0.86		
								0.29	0.73	0.35	0.86	0.35	0.86	0.35	0.86		
								0.29	0.73	0.35	0.86	0.35	0.86	0.35	0.86		
								0.29	0.73	0.35	0.86	0.35	0.86	0.35	0.86		

RGOS flange shaft

Cam curve/MS

Oscillating angle (deg)	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				15	30	45	60	75	100	150	200	300
60	240	025	2.89	1.78	1.68	1.45	1.30	1.19	1.06	0.90	0.80	0.66
		032	7.41	4.61	4.37	3.76	3.36	3.08	2.75	2.34	2.08	1.75
		040	41.6	24.7	23.4	20.2	18.0	16.5	14.7	12.5	11.1	9.2
		050	67.0	41.1	38.9	33.5	30.0	27.4	24.5	20.8	18.5	15.4
		063	119	59.1	55.9	48.2	43.0	39.4	35.2	29.8	26.3	21.6
		080	262	188	186	160	143	131	117	99	88	73
		110	738	410	388	334	299	273	243	206	180	145
		140	1640	823	778	670	598	547	486	408	354	273
		180	4270	2210	2090	1800	1600	1470	1300	1080	920	660
		250	10400	3580	3380	2900	2580	2340	2040	1610	1250	
	300	025	3.76	2.56	2.43	2.13	1.91	1.75	1.56	1.33	1.18	1.00
		032	7.41	5.09	4.82	4.24	3.79	3.47	3.10	2.64	2.36	1.99
		040	41.6	27.2	25.8	22.7	20.2	18.5	16.6	14.1	12.5	10.5
		050	67.0	45.2	42.8	37.6	33.6	30.8	27.5	23.4	20.8	17.6
		063	129	102	102	96	86	79	70	60	53	45
		080	262	207	204	180	161	147	131	112	99	83
		110	738	451	427	375	335	307	274	232	206	170
		140	1640	907	859	754	674	617	550	465	409	330
		180	4270	2440	2310	2030	1810	1650	1470	1240	1080	840
		250	10400	3930	3720	3260	2910	2650	2340	1910	1580	1010
	360	025	3.76	2.73	2.59	2.29	2.07	1.89	1.69	1.44	1.29	1.09
		032	7.41	5.42	5.14	4.55	4.10	3.76	3.36	2.86	2.56	2.17
		040	41.6	28.9	27.4	24.3	21.9	20.1	17.9	15.3	13.6	11.5
		050	67.0	47.9	45.4	40.2	36.2	33.2	29.7	25.3	22.6	19.1
		063	129	109	109	103	93	85	76	65	58	49
		080	431	268	253	224	202	185	166	141	126	106
		110	903	606	574	508	458	420	375	319	283	238
		140	2230	1190	1130	1000	900	830	740	630	550	460
		180	4270	2590	2450	2170	1960	1790	1600	1350	1190	960
		250	10400	4180	3950	3490	3140	2870	2550	2110	1800	1300
45	90	032	1.39	0.81	0.72	0.61	0.55	0.50	0.44	0.37	0.31	0.23
	120	032	1.39	0.93	0.85	0.72	0.65	0.59	0.53	0.44	0.39	0.31
	180	025	2.13	1.31	1.24	1.06	0.94	0.86	0.77	0.65	0.57	0.47
		032	4.77	2.97	2.80	2.39	2.13	1.95	1.74	1.48	1.31	1.08
		040	10.9	7.79	7.76	7.48	7.28	7.12	6.91	5.85	5.11	4.03
		050	50.1	30.9	29.1	24.9	22.2	20.3	18.1	15.4	13.6	11.1
		063	85.1	51.8	48.8	41.7	37.2	34.1	30.4	25.6	22.5	18.1
		080	164	118	117	107	96	88	78	66	58	47
		110	359	258	254	217	193	177	157	131	113	85
		140	950	522	492	419	373	341	301	248	208	140
		180	2100	1060	1000	850	750	680	600	480	380	180
		250	4150	2200	2060	1750	1540	1380	1180	840	510	
	240	025	2.13	1.49	1.41	1.23	1.10	1.01	0.90	0.76	0.68	0.56
		032	4.77	3.35	3.18	2.77	2.48	2.27	2.03	1.72	1.53	1.29
		040	30.6	20.0	18.9	16.5	14.7	13.5	12.1	10.2	9.1	7.6
		050	50.1	34.7	32.9	28.7	25.6	23.5	21.0	17.8	15.8	13.2
		063	85.1	58.3	55.2	48.2	43.1	39.4	35.2	29.9	26.5	22.0
		080	242	174	165	144	128	118	105	89	79	66
		110	591	354	335	292	261	239	213	180	158	128
		140	1160	745	705	615	549	503	447	376	329	258
		180	2100	1190	1130	980	880	800	710	590	500	340
		250	4150	2470	2330	2030	1800	1630	1430	1120	870	360

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pack and
Preset drive

Option

Linear

Circular

Output torque table

Oscillating series

● RGOS flange shaft

Cam curve/MS

Product specifications		Cam curve/MS														
		Oscillating angle (deg)	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)										
						Input shaft rotational speed (rpm)										
						15	30	45	60	75	100	150	200	300		
Roller gear cam drive	Compact	45	300	025	2.13	1.60	1.51	1.34	1.20	1.10	0.99	0.84	0.75	0.63		
				032	4.77	3.59	3.40	3.01	2.71	2.48	2.22	1.89	1.68	1.42		
				040	30.6	21.3	20.2	17.9	16.1	14.7	13.2	11.2	10.0	8.4		
				050	50.1	37.1	35.1	31.1	27.9	25.6	22.9	19.5	17.3	14.6		
				063	85.1	62.3	59.0	52.3	47.0	43.0	38.4	32.7	29.1	24.4		
				080	242	186	176	156	140	128	115	98	87	73		
				110	591	378	358	317	285	261	233	197	175	145		
				140	1160	798	755	668	601	550	490	415	366	298		
				180	2860	1580	1490	1320	1190	1090	970	810	710	550		
				250	5840	3680	3480	3080	2760	2520	2230	1840	1550	1070		
	Standard		360	025	2.13	1.67	1.58	1.40	1.28	1.17	1.05	0.89	0.80	0.67		
				032	4.77	3.75	3.55	3.14	2.87	2.63	2.35	2.01	1.79	1.52		
				040	30.6	22.2	21.0	18.6	17.0	15.6	13.9	11.9	10.6	9.0		
				050	50.1	38.5	36.5	32.3	29.5	27.1	24.2	20.6	18.4	15.6		
				063	85.1	64.9	61.4	54.4	49.7	45.5	40.7	34.7	30.9	26.1		
				080	242	194	183	162	148	136	121	103	92	78		
				110	738	513	486	430	393	360	322	274	243	205		
				140	1640	1040	980	870	790	730	650	550	490	410		
	Table		180	180	2860	1650	1560	1380	1260	1150	1030	870	760	610		
				250	5840	3830	3620	3210	2920	2670	2370	1980	1710	1280		
				Wide angle	180	032	1.89	1.38	1.31	1.13	1.01	0.93	0.83	0.70	0.62	0.50
						040	7.19	6.13	5.80	5.02	4.48	4.10	3.65	3.06	2.66	2.06
						050	12.8	11.1	11.1	10.8	10.6	10.3	10.0	8.5	7.5	6.1
						063	25.3	21.3	21.2	20.8	20.2	19.8	19.2	18.4	16.9	13.7
						080	108	77.0	72.9	63.1	56.3	51.6	45.9	38.8	34.0	27.2
						110	225	189	189	176	157	143	127	107	93	72
	140	462	386			381	330	294	268	238	197	167	119			
	180	976	603			570	491	436	396	346	273	211				
	Basic	240	250	2870	1710	1620	1390	1230	1110	950	700	470				
			032	1.89	1.49	1.41	1.25	1.12	1.02	0.91	0.78	0.69	0.58			
			040	10.2	8.87	8.40	7.43	6.67	6.11	5.45	4.62	4.09	3.37			
			050	12.8	11.8	11.7	11.7	11.5	11.3	10.9	9.3	8.3	6.9			
			063	25.3	22.8	22.8	22.8	22.2	21.8	21.2	20.3	18.9	15.7			
			080	108	82.5	78.1	69.1	62.0	56.8	50.7	43.0	38.1	31.5			
			110	225	203	203	192	172	158	141	119	105	85			
			140	462	414	409	362	324	297	264	222	194	152			
	Parallel cam drive	300	180	976	647	612	541	484	441	390	320	268	177			
			250	2870	1830	1730	1530	1360	1240	1080	860	680	330			
			032	1.89	1.54	1.46	1.29	1.18	1.08	0.97	0.82	0.73	0.62			
			040	10.2	9.14	8.65	7.66	7.01	6.43	5.74	4.88	4.33	3.62			
			050	12.8	12.1	12.1	12.1	12.1	11.8	11.5	9.8	8.8	7.4			
			063	25.3	23.6	23.6	23.6	23.5	23.1	22.4	21.6	20.1	16.9			
			080	108	85.5	81.0	71.7	65.6	60.1	53.7	45.7	40.6	34.0			
			110	225	210	210	199	182	167	149	127	112	93			
	Option	Circular and Photo drive	140	462	429	424	376	344	315	281	237	209	170			
			180	1220	876	829	733	670	613	545	457	396	305			
			250	3910	2340	2220	1960	1790	1630	1440	1190	1010	690			

● RGOS flange shaft

Cam curve/MS

Oscillating angle (deg)	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				15	30	45	60	75	100	150	200	300
30	360	032	1.89	1.58	1.49	1.32	1.21	1.13	1.01	0.86	0.76	0.65
		040	10.2	9.30	8.80	7.80	7.15	6.65	5.94	5.05	4.50	3.79
		050	12.8	12.3	12.3	12.3	12.3	12.2	11.9	10.2	9.1	7.7
		063	25.3	24.1	24.1	24.1	24.1	23.9	23.3	22.4	20.9	17.7
		080	108	87.3	82.6	73.2	67.1	62.4	55.7	47.5	42.3	35.6
		110	331	280	266	235	216	200	179	152	135	114
		140	760	534	505	447	410	381	340	289	256	212
		180	1220	894	846	749	686	637	568	479	420	335
		250	3910	2390	2260	2000	1830	1700	1510	1260	1080	810

Product specifications

Option	Pick and place drive		Parallel cam drive		Roller gear cam drive			Compact
	Linear	Circular	Basic	Wide angle	Table	Standard		

Output torque table

Reducer series

● RGCS straight shaft

Cam curve/CV

Product specifications			Rated dynamic output torque (N·m)									
			Size	Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
Compact	3	360	040	41.6	32.4	27.1	24.9	23.3	21.4	18.9	17.3	15.4
			050	50.1	40.2	33.7	30.9	28.9	26.5	23.5	21.5	19.1
			063	129	121	121	115	106	99	80	74	65
			080	262	246	243	215	197	185	169	150	138
			110	738	535	507	449	412	385	353	313	287
			140	1640	1080	1020	910	830	780	710	630	580
			180	3030	2080	1970	1740	1600	1500	1370	1220	1110
			250	10400	4650	4410	3900	3580	3350	3070	2720	2490
Standard	4	360	040	30.6	23.8	22.6	20.0	18.3	17.1	15.7	13.9	12.8
			050	50.1	41.2	39.0	34.6	31.7	29.6	27.2	24.1	22.1
			063	85.1	69.5	65.8	58.3	53.5	50.0	45.9	40.6	37.3
			080	164	158	158	150	138	129	118	105	96
			110	591	421	399	353	324	303	278	246	226
			140	1160	893	845	749	687	642	589	522	478
			180	2860	1770	1670	1480	1360	1270	1160	1030	950
			250	5840	4100	3880	3430	3150	2950	2700	2390	2200
Table	5	360	040	10.9	10.6	10.6	10.6	10.6	10.6	9.4	8.7	7.7
			050	37.9	29.9	28.3	25.1	23.0	21.5	19.7	17.5	16.0
			063	63.6	52.9	50.1	44.4	40.7	38.1	34.9	30.9	28.4
			080	152	102	97	86	79	74	67	60	55
			110	359	350	346	307	281	263	241	214	196
			140	760	548	519	460	422	394	362	320	294
			180	1490	1160	1100	970	890	840	770	680	620
			250	4150	2970	2810	2490	2280	2130	1960	1730	1590
Wide angle	6	360	040	41.6	33.9	32.1	28.4	26.1	24.4	22.4	19.8	18.2
			050	67.0	55.9	52.9	46.9	43.0	40.2	36.9	32.7	30.0
			063	129	127	127	121	111	103	95	84	77
			080	431	314	297	263	241	226	207	183	168
			110	1270	883	836	741	679	635	583	516	473
			140	2230	1400	1330	1180	1080	1010	930	820	750
			180	4270	3050	2890	2560	2340	2190	2010	1780	1630
			250	10400	4870	4610	4080	3750	3500	3210	2850	2610
Basic	8	360	040	30.6	24.5	23.2	20.5	18.8	17.6	16.2	14.3	13.1
			050	50.1	42.3	40.1	35.5	32.5	30.4	27.9	24.7	22.7
			063	85.1	71.4	67.6	59.9	54.9	51.4	47.1	41.7	38.3
			080	262	260	257	227	208	195	179	158	145
			110	738	564	534	473	434	406	372	330	302
			140	1640	1140	1080	960	880	820	760	670	610
			180	2860	1820	1720	1520	1400	1310	1200	1060	970
			250	5840	4210	3980	3530	3230	3020	2770	2460	2250
Option	9	360	040	30.6	24.5	23.2	20.6	18.9	17.6	16.2	14.3	13.1
			050	51.5	42.4	40.1	35.5	32.6	30.5	28.0	24.8	22.7
			063	85.1	71.6	67.8	60.0	55.0	51.5	47.2	41.8	38.3
			080	164	163	163	155	142	133	122	108	99
			110	591	433	410	363	333	312	286	253	232
			140	1160	920	871	771	708	662	607	538	493
			180	2860	1820	1720	1530	1400	1310	1200	1060	970
			250	5840	4210	3990	3530	3240	3030	2780	2460	2260

● RGCS straight shaft

Cam curve/CV

Reduction ratio	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
10	360	040	10.9	10.8	10.8	10.8	10.8	10.8	9.6	8.8	7.8	
		050	37.9	30.4	28.8	25.5	23.4	21.9	20.1	17.8	16.3	14.4
		063	85.1	71.7	67.8	60.1	55.1	51.5	47.3	41.9	38.4	34.0
		080	164	163	163	155	142	133	122	108	99	88
		110	359	357	353	312	286	268	246	218	200	177
		140	950	729	690	611	560	524	481	426	390	346
		180	2100	1470	1400	1240	1130	1060	970	860	790	700
		250	5840	4220	3990	3540	3240	3030	2780	2460	2260	2000
12	360	040	10.2	9.66	9.14	8.10	7.43	6.95	6.37	5.64	5.18	4.58
		050	12.8	12.7	12.7	12.7	12.7	12.7	12.7	11.3	10.4	9.2
		063	63.6	54.0	51.1	45.2	41.5	38.8	35.6	31.5	28.9	25.6
		080	152	104	99	87	80	75	69	61	56	49
		110	331	293	278	246	226	211	194	171	157	139
		140	760	559	530	469	430	402	369	327	300	265
		180	1490	1190	1120	990	910	850	780	690	640	560
		250	4150	3020	2860	2540	2330	2180	2000	1770	1620	1440

Product specifications

Option	Pick and Place drive		Parallel cam drive				Roller gear cam drive		
	Linear	Circular	Basic	Wide angle	Table	Standard	Compact		

Output torque table

Reducer series

● RGCS flange shaft

Cam curve/CV

Product specifications			Rated dynamic output torque (N·m)									
			Size	Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
Compact	3	360	040	41.6	32.4	27.1	24.9	23.3	21.4	18.9	17.3	15.4
			050	50.1	40.2	33.7	30.9	28.9	26.5	23.5	21.5	19.1
			063	129	121	121	115	106	99	80	74	65
			080	262	246	243	215	197	185	169	150	138
			110	738	535	507	449	412	385	353	313	287
			140	1640	1080	1020	910	830	780	710	630	580
			180	3030	2080	1970	1740	1600	1500	1370	1220	1110
			250	10400	4650	4410	3900	3580	3350	3070	2720	2490
Standard	4	360	040	30.6	23.8	22.6	20.0	18.3	17.1	15.7	13.9	12.8
			050	50.1	41.2	39.0	34.6	31.7	29.6	27.2	24.1	22.1
			063	85.1	69.5	65.8	58.3	53.5	50.0	45.9	40.6	37.3
			080	164	158	158	150	138	129	118	105	96
			110	591	421	399	353	324	303	278	246	226
			140	1160	893	845	749	687	642	589	522	478
			180	2860	1770	1670	1480	1360	1270	1160	1030	950
			250	5840	4100	3880	3430	3150	2950	2700	2390	2200
Table	5	360	040	10.9	10.6	10.6	10.6	10.6	10.6	9.4	8.7	7.7
			050	37.9	29.9	28.3	25.1	23.0	21.5	19.7	17.5	16.0
			063	63.6	52.9	50.1	44.4	40.7	38.1	34.9	30.9	28.4
			080	152	102	97	86	79	74	67	60	55
			110	359	350	346	307	281	263	241	214	196
			140	760	548	519	460	422	394	362	320	294
			180	1490	1160	1100	970	890	840	770	680	620
			250	4150	2970	2810	2490	2280	2130	1960	1730	1590
Wide angle	6	360	040	41.6	33.9	32.1	28.4	26.1	24.4	22.4	19.8	18.2
			050	67.0	55.9	52.9	46.9	43.0	40.2	36.9	32.7	30.0
			063	129	127	127	121	111	103	95	84	77
			080	431	314	297	263	241	226	207	183	168
			110	1270	883	836	741	679	635	583	516	473
			140	2230	1400	1330	1180	1080	1010	930	820	750
			180	4270	3050	2890	2560	2340	2190	2010	1780	1630
			250	10400	4870	4610	4080	3750	3500	3210	2850	2610
Basic	8	360	040	30.6	24.5	23.2	20.5	18.8	17.6	16.2	14.3	13.1
			050	50.1	42.3	40.1	35.5	32.5	30.4	27.9	24.7	22.7
			063	85.1	71.4	67.6	59.9	54.9	51.4	47.1	41.7	38.3
			080	262	260	257	227	208	195	179	158	145
			110	738	564	534	473	434	406	372	330	302
			140	1640	1140	1080	960	880	820	760	670	610
			180	2860	1820	1720	1520	1400	1310	1200	1060	970
			250	5840	4210	3980	3530	3230	3020	2770	2460	2250
Option	9	360	040	30.6	24.5	23.2	20.6	18.9	17.6	16.2	14.3	13.1
			050	51.5	42.4	40.1	35.5	32.6	30.5	28.0	24.8	22.7
			063	85.1	71.6	67.8	60.0	55.0	51.5	47.2	41.8	38.3
			080	164	163	163	155	142	133	122	108	99
			110	591	433	410	363	333	312	286	253	232
			140	1160	920	871	771	708	662	607	538	493
			180	2860	1820	1720	1530	1400	1310	1200	1060	970
			250	5840	4210	3990	3530	3240	3030	2780	2460	2260

● RGCS flange shaft

Cam curve/CV

Reduction ratio	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
10	360	040	10.9	10.8	10.8	10.8	10.8	10.8	9.6	8.8	7.8	
		050	37.9	30.4	28.8	25.5	23.4	21.9	20.1	17.8	16.3	14.4
		063	85.1	71.7	67.8	60.1	55.1	51.5	47.3	41.9	38.4	34.0
		080	164	163	163	155	142	133	122	108	99	88
		110	359	357	353	312	286	268	246	218	200	177
		140	950	729	690	611	560	524	481	426	390	346
		180	2100	1470	1400	1240	1130	1060	970	860	790	700
		250	5840	4220	3990	3540	3240	3030	2780	2460	2260	2000
12	360	040	10.2	9.66	9.14	8.10	7.43	6.95	6.37	5.64	5.18	4.58
		050	12.8	12.7	12.7	12.7	12.7	12.7	12.7	11.3	10.4	9.2
		063	63.6	54.0	51.1	45.2	41.5	38.8	35.6	31.5	28.9	25.6
		080	152	104	99	87	80	75	69	61	56	49
		110	331	293	278	246	226	211	194	171	157	139
		140	760	559	530	469	430	402	369	327	300	265
		180	1490	1190	1120	990	910	850	780	690	640	560
		250	4150	3020	2860	2540	2330	2180	2000	1770	1620	1440

Product specifications

Option	Pick and Place drive		Parallel cam drive				Roller gear cam drive				
	Linear	Circular					Basic	Wide angle	Table	Standard	Compact

Output torque table

Index series

● RGIS straight shaft (1 dwell)

Cam curve/MS

Cam curve/MS																				
Product specifications			Rated dynamic output torque (N·m)																	
			Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Input shaft rotational speed (rpm)													
							30	60	90	120	150	200	300	400	600					
Compact	Standard	Table	Wide angle	Basic	Parallel cam drive	4	2	270	040	10.9	5.41	4.71	4.34	4.10	3.91	3.69	3.00			
									050	19.9	10.0	8.7	8.1	7.6	7.2	6.8				
									063	85.1	36.0	29.7	24.2	20.9	18.7					
									080	164	81.8	71.2	62.3	53.8	48.0					
Standard	Table	Wide angle	Basic	Parallel cam drive	4	2	300	040	30.6	13.4	11.0	9.0	7.8	7.0	6.0	4.9				
								050	50.1	23.4	19.3	15.7	13.6	12.2	10.5					
								063	85.1	39.2	32.3	26.3	22.8	20.3	17.5					
								080	242	117	96	78	68	61						
Table	Wide angle	Basic	Parallel cam drive	4	2	330	040	30.6	14.4	11.9	9.7	8.4	7.5	6.5	5.3					
							050	50.1	25.1	20.7	16.9	14.6	13.1	11.3	9.2					
							063	119	48.0	39.5	32.3	27.9	24.9	21.5						
							080	242	125	103	84	73	65							
Table	Wide angle	Basic	Parallel cam drive	4	3	180	040	10.9	5.20	4.52	4.17	3.93	3.75	3.53	2.86					
							050	19.9	9.65	8.39	7.72	7.28	6.94	6.50						
							063	85.1	34.6	28.5	23.2	20.0	17.8							
							080	164	78.6	68.3	59.7	51.6	46.0							
Table	Wide angle	Basic	Parallel cam drive	4	3	210	040	10.9	5.87	5.11	4.71	4.44	4.24	4.00	3.25					
							050	50.1	23.3	19.2	15.7	13.6	12.1	10.4						
							063	85.1	39.0	32.2	26.2	22.7	20.2	17.4						
							080	242	116	96	78	68	60							
Table	Wide angle	Basic	Parallel cam drive	4	3	240	040	30.6	14.7	12.1	9.9	8.6	7.6	6.6	5.4	4.6				
							050	50.1	25.6	21.1	17.2	14.9	13.3	11.5	9.3					
							063	85.1	42.9	35.4	28.9	25.0	22.3	19.2						
							080	242	128	105	86	74	66	57						
Table	Wide angle	Basic	Parallel cam drive	4	3	270	040	41.6	22.1	18.3	14.9	12.9	11.5	10.0	8.1	7.0				
							050	50.1	27.7	22.8	18.6	16.1	14.4	12.4	10.1					
							063	85.1	46.4	38.2	31.2	27.0	24.1	20.8						
							080	242	138	114	93	80	72	62						
Table	Wide angle	Basic	Parallel cam drive	4	3	300	040	41.6	23.6	19.5	15.9	13.8	12.3	10.6	8.7	7.5				
							050	67.0	39.2	32.3	26.3	22.8	20.4	17.6	14.3					
							063	119	56.4	46.5	37.9	32.8	29.3	25.3						
							080	262	179	154	126	109	97	84						
Table	Wide angle	Basic	Parallel cam drive	4	3	330	040	41.6	24.9	20.5	16.7	14.5	13.0	11.2	9.1	7.9				
							050	67.0	41.3	34.0	27.8	24.0	21.5	18.6	15.1					
							063	129	93.3	81.2	71.1	61.5	55.0	47.6						
							080	262	189	163	133	115	103	89						
Table	Wide angle	Basic	Parallel cam drive	4	3	150	040	10.2	5.18	4.26	3.48	3.01	2.68	2.31	1.85					
							050	12.8	6.92	6.01	5.53	5.21	4.96	4.64						
							063	63.6	27.5	22.6	18.4	15.9	14.1	12.1						
							080	108	46.4	38.2	31.1	26.8	23.8							
Table	Wide angle	Basic	Parallel cam drive	4	3	180	040	10.9	6.28	5.47	5.04	4.75	4.54	4.28	3.48	2.97				
							050	19.9	11.6	10.1	9.3	8.8	8.4	7.9	7.2					
							063	63.6	31.4	25.8	21.1	18.2	16.2	13.9						
							080	152	60.4	49.8	40.6	35.0	31.2	26.8						
Table	Wide angle	Basic	Parallel cam drive	4	3	210	040	17.9	11.5	10.1	9.3	8.7	8.2	7.1	5.8	5.0				
							050	19.9	12.8	11.2	10.3	9.7	9.3	8.7	8.0					
							063	63.6	34.7	28.5	23.3	20.1	18.0	15.5						
							080	164	105	91	80	69	62	53						
Table	Wide angle	Basic	Parallel cam drive	4	3	240	040	17.9	12.4	10.8	10.4	9.5	8.9	7.7	6.3	5.4				
							050	19.9	13.8	12.0	11.1	10.5	10.0	9.4	8.6					
							063	63.6	37.4	30.8	25.2	21.8	19.4	16.8						
							080	164	113	99	86	75	67	58						
Table	Wide angle	Basic	Parallel cam drive	4	3	270	040	17.9	13.2	11.5	10.6	10.0	9.4	8.2	6.7	5.7				
							050	19.9	14.7	12.8	11.8	11.1	10.6	10.0	9.2					

● RGIS straight shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
				Input shaft rotational speed (rpm)									
				30	60	90	120	150	200	300	400	600	
4	270	063	63.6	39.8	32.8	26.8	23.2	20.7	17.9				
		080	164	120	105	92	79	71	61				
	300	040	30.6	19.0	15.7	12.8	11.1	9.9	8.6	7.0	6.0		
		050	50.1	33.1	27.3	22.3	19.3	17.2	14.9	12.1			
		063	85.1	55.6	45.8	37.4	32.4	28.9	25.0				
		080	164	127	110	96	84	75	65				
	330	040	30.6	19.9	16.4	13.4	11.6	10.3	9.0	7.3	6.3		
		050	50.1	34.5	28.4	23.2	20.1	17.9	15.5	12.6			
		063	85.1	58.0	47.8	39.0	33.8	30.2	26.1				
		080	164	132	115	101	87	78	67				
	5	120	040	7.19	3.74	3.08	2.51	2.17	1.93	1.66	1.31		
			050	13.1	6.32	5.20	4.23	3.64	3.23	2.74	2.08		
063			16.4	8.51	7.38	6.76	6.32	5.97	5.46				
080			80.0	34.2	28.1	22.8	19.6	17.3					
150		040	7.19	4.33	3.57	2.91	2.52	2.25	1.93	1.55	1.30		
		050	12.8	7.84	6.82	6.28	5.91	5.64	5.29	4.23			
		063	25.3	14.7	12.8	11.8	11.1	10.5	9.8				
		080	108	53.3	43.9	35.7	30.8	27.4	23.5				
180		040	10.2	6.53	5.38	4.39	3.80	3.40	2.93	2.37	2.02		
		050	12.8	8.68	7.55	6.96	6.56	6.26	5.89	4.76			
		063	25.3	16.5	14.3	13.2	12.4	11.8	11.1				
		080	108	59.7	49.1	40.1	34.6	30.9	26.5				
210		040	14.8	7.05	5.81	4.74	4.11	3.67	3.17	2.57	2.21		
		050	12.8	9.3	8.1	7.5	7.0	6.7	6.3	5.1			
		063	63.6	38.4	31.6	25.8	22.3	19.9	17.2				
		080	152	74.0	61.0	49.7	43.0	38.4	33.1				
240		040	10.9	8.19	7.13	6.58	6.21	5.93	5.60	4.58	3.94		
		050	37.9	23.2	19.1	15.6	13.5	12.1	10.4	8.5			
		063	63.6	40.9	33.7	27.5	23.8	21.3	18.4				
		080	152	78.9	65.0	53.0	45.9	41.0	35.4				
270		040	10.9	8.62	7.51	6.92	6.53	6.25	5.89	4.82	4.16		
		050	37.9	24.4	20.1	16.4	14.2	12.7	11.0	8.9			
		063	63.6	43.0	35.5	28.9	25.0	22.4	19.3				
		080	152	83.0	68.4	55.8	48.3	43.2	37.3				
300		040	10.9	8.99	7.83	7.22	6.81	6.51	6.14	5.03	4.35		
		050	37.9	25.4	20.9	17.1	14.8	13.2	11.4	9.3			
		063	63.6	44.8	37.0	30.2	26.1	23.3	20.2				
		080	152	86.5	71.3	58.2	50.4	45.0	38.9				
330		040	10.9	9.31	8.10	7.47	7.05	6.74	6.36	5.21	4.50		
		050	37.9	26.3	21.7	17.7	15.3	13.7	11.8	9.6			
		063	63.6	46.4	38.3	31.2	27.0	24.2	20.9				
		080	152	89.6	73.8	60.3	52.2	46.6	40.3				
6	90	040	10.9	4.85	4.22	3.88	3.66	3.49	3.27	2.60			
		050	19.9	9.00	7.82	7.19	6.75	6.42	5.97				
		063	85.1	32.2	26.5	21.6	18.6	16.5					
		080	164	73.3	63.7	55.6	47.9	42.5					
	120	040	41.6	19.1	15.8	12.9	11.1	10.0	8.6	7.0	6.0		
		050	67.0	31.8	26.2	21.4	18.5	16.5	14.2	11.4			
		063	119	45.7	37.7	30.7	26.5	23.6	20.3				
		080	262	145	125	102	88	79	68				
	150	040	41.6	22.0	18.1	14.8	12.8	11.5	9.9	8.1	6.9		
		050	67.0	36.5	30.1	24.6	21.3	19.0	16.4	13.3			
		063	129	82.6	71.9	62.9	54.4	48.6	42.0				
		080	262	167	144	117	102	91	78				

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive

Linear

Circular

Option

Output torque table

Index series

● RGIS straight shaft (1 dwell)

Cam curve/MS

Product specifications			Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)							
							Input shaft rotational speed (rpm)							
							30	60	90	120	150	200	300	400 600
Roller gear cam drive	Compact	6	180	040	41.6	24.3	20.0	16.3	14.1	12.6	10.9	8.9	7.7	
				050	67.0	40.2	33.1	27.1	23.4	20.9	18.1	14.7		
				063	129	91.0	79.2	69.3	60.0	53.6	46.4			
				080	431	224	185	151	131	117	101			
		210		040	41.6	26.1	21.5	17.6	15.2	13.6	11.8	9.6	8.3	
				050	67.0	43.2	35.6	29.0	25.1	22.5	19.4	15.8		
				063	129	97.8	85.1	74.5	64.5	57.6	49.8			
				080	431	241	199	162	140	126	109			
	Standard	240		040	41.6	27.6	22.7	18.5	16.1	14.4	12.4	10.1	8.8	
				050	67.0	45.6	37.6	30.7	26.5	23.7	20.5	16.7		
				063	129	103	90	79	68	61	53			
				080	431	255	210	171	148	133	115			
	Table	270		040	41.6	28.8	23.7	19.4	16.8	15.0	13.0	10.6	9.2	
				050	67.0	47.6	39.2	32.0	27.7	24.8	21.5	17.5		
				063	129	108	94	82	71	64	55			
				080	431	266	219	179	155	139	120			
	Wide angle	300		040	41.6	29.9	24.6	20.1	17.4	15.6	13.5	11.0	9.5	
				050	67.0	49.3	40.6	33.2	28.7	25.7	22.2	18.1		
				063	129	112	97	85	74	66	57			
				080	431	276	228	186	161	144	124			
	Basic	330		040	41.6	30.8	25.4	20.7	17.9	16.1	13.9	11.3	9.8	
				050	67.0	50.8	41.9	34.2	29.6	26.5	22.9	18.7		
				063	129	115	100	88	76	68	59			
				080	431	285	235	192	166	148	128			
Parallel cam drive	Basic	8	90	040	10.9	5.86	5.10	4.70	4.43	4.22	3.97	3.20	2.68	
				050	50.1	23.2	19.1	15.6	13.5	12.0	10.3	8.2		
				063	85.1	38.9	32.1	26.1	22.5	20.0	17.1			
				080	164	88.5	77.0	67.3	58.0	51.6	44.1			
		120		040	30.6	15.9	13.1	10.7	9.3	8.3	7.2	5.8	5.0	
				050	50.1	27.7	22.8	18.6	16.1	14.4	12.4	10.0		
				063	85.1	46.4	38.3	31.2	27.0	24.1	20.7			
				080	242	138	114	93	80	72	62			
	Option	150		040	30.6	17.8	14.6	12.0	10.4	9.3	8.0	6.5	5.6	
				050	50.1	30.9	25.4	20.8	18.0	16.1	13.9	11.2		
				063	85.1	51.9	42.8	34.9	30.2	27.0	23.3			
				080	242	155	127	104	90	80	69			
	Circular	180		040	30.6	19.2	15.8	12.9	11.2	10.0	8.7	7.0	6.1	
				050	50.1	33.3	27.4	22.4	19.4	17.3	15.0	12.2		
				063	85.1	56.0	46.2	37.7	32.6	29.1	25.2			
				080	242	167	138	112	97	87	75			
	Pack and Pico time	210		040	30.6	20.3	16.7	13.7	11.8	10.6	9.2	7.5	6.5	
				050	50.1	35.2	29.0	23.7	20.5	18.3	15.9	12.9		
				063	85.1	59.3	48.9	39.9	34.5	30.9	26.7			
				080	242	177	146	119	103	92	80			
	Option	240		040	30.6	21.2	17.5	14.3	12.4	11.1	9.6	7.8	6.8	
				050	50.1	36.8	30.3	24.7	21.4	19.2	16.6	13.5		
				063	85.1	62.0	51.1	41.7	36.1	32.3	27.9			
				080	242	185	152	124	108	96	83			
		270		040	30.6	22.0	18.1	14.8	12.8	11.5	9.9	8.1	7.0	
				050	50.1	38.1	31.4	25.6	22.2	19.9	17.2	14.0		
				063	85.1	64.2	52.9	43.2	37.4	33.5	28.9			
				080	262	233	201	164	142	127	110			
		300		040	30.6	22.7	18.7	15.3	13.2	11.8	10.2	8.4	7.2	
				050	50.1	39.3	32.4	26.4	22.9	20.5	17.7	14.4		

● RGIS straight shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
8	300	063	85.1	66.2	54.6	44.5	38.6	34.5	29.8			
		080	262	241	207	169	146	131	113			
	330	040	30.6	23.3	19.2	15.7	13.6	12.1	10.5	8.6	7.4	
		050	50.1	40.3	33.2	27.1	23.5	21.0	18.2	14.8		
		063	85.1	67.9	56.0	45.7	39.6	35.4	30.6			
080		262	247	212	173	150	134	116				
9	90	040	10.9	6.26	5.44	5.01	4.73	4.51	4.24	3.43	2.89	
		050	37.9	17.8	14.6	11.9	10.3	9.2	7.9	6.2		
		063	63.6	31.2	25.7	20.9	18.1	16.0	13.7			
		080	152	60.2	49.6	40.3	34.8	30.9	26.2			
	120	040	10.9	7.35	6.40	5.90	5.56	5.32	5.01	4.08	3.49	
		050	37.9	20.8	17.1	14.0	12.1	10.8	9.3	7.5		
		063	63.6	36.7	30.2	24.6	21.3	19.0	16.3			
		080	152	70.8	58.3	47.5	41.0	36.6	31.4			
	150	040	10.9	8.13	7.08	6.52	6.16	5.89	5.55	4.53	3.90	
		050	37.9	23.0	18.9	15.5	13.4	12.0	10.3	8.4		
		063	85.1	54.0	44.5	36.3	31.4	28.0	24.2			
		080	164	123	107	94	81	72	62			
	180	040	10.9	8.72	7.59	7.00	6.61	6.31	5.96	4.87	4.20	
		050	51.5	34.4	28.3	23.1	20.0	17.9	15.5	12.6		
		063	85.1	57.9	47.7	38.9	33.7	30.1	26.0			
		080	164	132	115	100	87	78	67			
	210	040	30.6	20.9	17.2	14.1	12.2	10.9	9.4	7.7	6.6	
		050	51.5	36.2	29.8	24.3	21.1	18.8	16.3	13.3		
		063	85.1	60.9	50.2	41.0	35.5	31.7	27.4			
		080	164	139	121	106	92	82	71			
	240	040	30.6	21.8	17.9	14.6	12.7	11.3	9.8	8.0	6.9	
		050	51.5	37.7	31.0	25.3	21.9	19.6	17.0	13.8		
		063	85.1	63.5	52.3	42.7	37.0	33.1	28.6			
		080	164	145	126	110	95	85	74			
	270	040	30.6	22.5	18.5	15.1	13.1	11.7	10.2	8.3	7.2	
		050	51.5	38.9	32.1	26.2	22.7	20.3	17.6	14.3		
		063	85.1	65.7	54.1	44.2	38.2	34.2	29.6			
		080	164	150	130	114	99	88	76			
	300	040	30.6	23.2	19.1	15.6	13.5	12.1	10.4	8.5	7.4	
		050	51.5	40.0	33.0	26.9	23.3	20.9	18.1	14.7		
		063	85.1	67.5	55.7	45.4	39.4	35.2	30.5			
		080	164	154	134	117	102	91	79			
	330	040	30.6	23.7	19.6	16.0	13.8	12.4	10.7	8.7	7.6	
		050	51.5	41.0	33.8	27.6	23.9	21.4	18.5	15.1		
		063	85.1	69.2	57.1	46.6	40.3	36.1	31.2			
		080	164	158	137	120	104	93	81			
10	90	040	10.2	6.09	5.02	4.09	3.54	3.16	2.72	2.18	1.82	
		050	12.8	8.10	7.04	6.48	6.10	5.81	5.44	4.31		
		063	25.3	15.4	13.4	12.3	11.5	10.9	10.2			
		080	108	55.6	45.8	37.3	32.1	28.6	24.3			
	120	040	10.9	7.65	6.65	6.13	5.79	5.53	5.21	4.25	3.64	
		050	37.9	21.6	17.8	14.5	12.6	11.2	9.7	7.8		
		063	63.6	38.2	31.4	25.6	22.2	19.8	17.0			
		080	152	73.6	60.6	49.4	42.7	38.1	32.7			
	150	040	10.9	8.39	7.30	6.73	6.35	6.07	5.73	4.68	4.03	
		050	37.9	23.7	19.5	15.9	13.8	12.3	10.7	8.6		
		063	63.6	41.8	34.5	28.1	24.3	21.7	18.7			
		080	152	80.7	66.5	54.3	46.9	41.9	36.1			

Product specifications

Roller gear cam drive	Compact	
	Standard	
	Table	
	Wide angle	
Basic		
Parallel cam drive		
Pick and Place drive	Linear	
	Circular	
Option		

Output torque table

Index series

● RGIS straight shaft (1 dwell)

Cam curve/MS

Product specifications		Cam curve/MS												
		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
						Input shaft rotational speed (rpm)								
						30	60	90	120	150	200	300	400	600
Roller gear cam drive	Compact	10	180	040	10.9	8.95	7.79	7.18	6.78	6.48	6.11	5.00	4.31	
				050	37.9	25.2	20.8	17.0	14.7	13.1	11.4	9.2		
				063	85.1	59.4	48.9	39.9	34.6	30.9	26.7			
				080	152	86.1	71.0	57.9	50.1	44.8	38.7			
		210	040	10.9	9.39	8.18	7.54	7.12	6.80	6.42	5.26	4.54		
			050	37.9	26.5	21.8	17.8	15.4	13.8	11.9	9.7			
			063	85.1	62.3	51.3	41.9	36.3	32.4	28.1				
			080	164	142	124	108	94	84	72				
		240	040	10.9	9.76	8.50	7.84	7.40	7.07	6.67	5.47	4.73		
			050	37.9	27.5	22.7	18.5	16.0	14.3	12.4	10.1			
			063	85.1	64.7	53.4	43.6	37.7	33.7	29.2				
			080	164	148	128	112	97	87	75				
	270	040	10.9	10.1	8.8	8.1	7.6	7.3	6.9	5.6	4.9			
		050	37.9	28.4	23.4	19.1	16.5	14.8	12.8	10.4				
		063	85.1	66.8	55.1	45.0	38.9	34.8	30.1					
		080	164	152	133	116	100	90	78					
	300	040	10.9	10.4	9.0	8.3	7.8	7.5	7.1	5.8	5.0			
		050	37.9	29.2	24.0	19.6	17.0	15.2	13.2	10.7				
		063	85.1	68.7	56.6	46.2	40.0	35.8	31.0					
		080	164	157	136	119	103	92	80					
	330	040	10.9	10.6	9.2	8.5	8.0	7.7	7.3	5.9	5.1			
		050	37.9	29.9	24.6	20.1	17.4	15.6	13.5	11.0				
		063	85.1	70.3	57.9	47.3	41.0	36.6	31.7					
		080	164	160	139	122	106	95	82					
Basic	10	040	7.19	4.80	3.95	3.23	2.79	2.49	2.14	1.71	1.43			
		050	12.8	8.69	7.55	6.96	6.55	6.25	5.85	4.67				
		063	25.3	16.6	14.5	13.3	12.5	11.9	11.1					
		080	108	60.3	49.6	40.4	34.9	31.0	26.5					
	120	040	7.19	5.38	4.44	3.62	3.13	2.80	2.42	1.95	1.66			
		050	12.8	9.74	8.48	7.81	7.37	7.03	6.62	5.36				
		063	25.3	18.9	16.4	15.1	14.2	13.6	12.7					
		080	108	68.4	56.4	46.0	39.7	35.4	30.5					
	150	040	10.2	7.93	6.53	5.33	4.62	4.13	3.57	2.90	2.49			
		050	12.8	10.5	9.1	8.4	7.9	7.6	7.1	5.8				
		063	25.3	20.4	17.8	16.4	15.5	14.8	13.9					
		080	108	74.1	61.1	49.8	43.1	38.5	33.2					
Parallel cam drive	10	040	10.2	8.36	6.89	5.63	4.87	4.36	3.77	3.07	2.64			
		050	12.8	11.1	9.6	8.9	8.4	8.0	7.5	6.2				
		063	25.3	21.6	18.8	17.4	16.4	15.6	14.7					
		080	108	78.5	64.7	52.8	45.7	40.8	35.3					
	120	040	10.2	8.72	7.18	5.87	5.08	4.54	3.93	3.20	2.76			
		050	12.8	11.5	10.0	9.2	8.7	8.3	7.9	6.4				
		063	25.3	22.6	19.7	18.1	17.1	16.4	15.4					
		080	108	82.0	67.6	55.1	47.7	42.7	36.9					
	150	040	10.2	9.02	7.43	6.07	5.25	4.70	4.07	3.32	2.86			
		050	12.8	11.9	10.4	9.6	9.0	8.6	8.1	6.7				
		063	25.3	23.4	20.4	18.8	17.7	16.9	16.0					
		080	108	84.9	70.0	57.1	49.5	44.2	38.2					
180	040	10.9	10.4	9.0	8.3	7.8	7.5	7.0	5.8	5.0				
	050	19.9	19.0	16.6	15.3	14.4	13.8	13.0	10.7					
	063	25.3	24.1	21.0	19.4	18.3	17.5	16.5						
	080	108	87.5	72.1	58.8	50.9	45.5	39.4						
Option	300	040	10.9	10.6	9.2	8.5	8.0	7.7	7.2	5.9	5.1			
		050	19.9	19.5	17.0	15.6	14.8	14.1	13.3	11.0				

● RGIS straight shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
12	300	063	63.6	53.0	43.7	35.7	30.9	27.6	23.9			
		080	152	102	84	69	60	53	46			
	330	040	10.9	10.7	9.4	8.7	8.2	7.8	7.4	6.1	5.2	
		050	19.9	19.6	17.4	16.0	15.1	14.4	13.6	11.3		
		063	63.6	53.4	44.7	36.5	31.6	28.2	24.4			
		080	152	103	86	70	61	55	47			
15	90	080	31.8	22.7	19.7	18.1	17.0	16.2	15.0			
	120	080	80.0	54.0	44.5	36.3	31.4	28.0	24.1			
	150	080	80.0	57.8	47.6	38.9	33.6	30.0	25.9			
	180	080	80.0	60.8	50.1	40.9	35.4	31.6	27.3			
	210	080	80.0	63.2	52.1	42.5	36.8	32.9	28.4			
	240	080	80.0	65.2	53.7	43.9	38.0	34.0	29.4			
	270	080	80.0	67.0	55.2	45.1	39.0	34.9	30.2			
	300	080	80.0	67.4	56.6	46.2	40.0	35.7	30.9			
16	330	080	80.0	67.5	57.8	47.2	40.8	36.5	31.6			
	90	080	31.8	23.1	20.1	18.5	17.4	16.5	15.3			
	120	080	31.8	25.6	22.2	20.5	19.3	18.4	17.2			
	150	080	31.8	27.3	23.8	21.9	20.6	19.7	18.5			
	180	080	80.0	61.4	50.6	41.3	35.7	31.9	27.6			
	210	080	80.0	63.7	52.5	42.9	37.1	33.2	28.7			
	240	080	80.0	65.8	54.2	44.3	38.3	34.2	29.6			
	270	080	80.0	67.3	55.7	45.5	39.4	35.2	30.4			
	300	080	80.0	67.5	57.0	46.5	40.3	36.0	31.2			
	330	080	80.0	67.6	58.2	47.5	41.1	36.8	31.8			

Product specifications

Roller gear cam drive	Compact	
	Standard	
	Table	
	Wide angle	
Parallel cam drive	Basic	
	Pick and Place drive	
Option	Linear	Circular

Output torque table

Index series

● RGIS straight shaft (2 dwell)

Cam curve/MS

Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
						Input shaft rotational speed (rpm)									
						15	30	45	60	75	100	150	200	300	
Roller gear cam drive	Compact	16	120	040	16.1	11.1	9.6	8.9	8.4	8.0	7.5	6.2	5.3	4.3	
				050	19.9	13.8	12.0	11.1	10.5	10.0	9.4	8.6	7.7	6.1	
				063	63.6	37.4	30.8	25.2	21.8	19.4	16.8	13.5	11.4		
				080	152	72.2	59.5	48.5	42.0	37.5	32.3	25.9	21.9		
		150	150	040	30.6	19.0	15.7	12.8	11.1	9.9	8.6	7.0	6.0	4.9	
				050	50.1	33.1	27.3	22.3	19.3	17.2	14.9	12.1	10.4	8.3	
				063	85.1	55.6	45.8	37.4	32.4	28.9	25.0	20.3	17.4		
				080	164	127	110	96	84	75	65	52	45		
	Standard	180	180	040	30.6	20.6	17.0	13.8	12.0	10.7	9.3	7.6	6.5	5.3	
				050	50.1	35.7	29.4	24.0	20.8	18.6	16.1	13.1	11.3	9.1	
				063	119	68.5	56.5	46.1	39.9	35.7	30.9	25.1	21.6		
				080	242	179	148	120	104	93	81	66	57		
	Table	210	210	040	30.6	21.8	17.9	14.7	12.7	11.3	9.8	8.0	6.9	5.6	
				050	50.1	37.7	31.1	25.4	22.0	19.7	17.0	13.9	12.0	9.7	
				063	119	72.5	59.8	48.8	42.2	37.8	32.7	26.6	23.0		
				080	242	190	156	128	110	99	85	70	60		
	Wide angle	240	240	040	30.6	22.8	18.8	15.3	13.3	11.9	10.3	8.4	7.3	5.9	
				050	50.1	39.4	32.5	26.5	23.0	20.5	17.8	14.5	12.5	10.2	
				063	119	75.8	62.5	51.0	44.2	39.5	34.2	27.9	24.0		
				080	242	198	163	133	115	103	89	73	63		
	Basic	270	270	040	30.6	23.5	19.4	15.9	13.8	12.3	10.6	8.7	7.5	6.1	
				050	50.1	40.7	33.7	27.5	23.8	21.3	18.4	15.0	13.0	10.6	
				063	119	78.3	64.7	52.9	45.8	40.9	35.4	28.9	25.0		
				080	242	205	169	138	120	107	92.7	75.6	65.3		
	Option	300	300	040	30.6	23.7	20.0	16.4	14.2	12.7	11.0	9.0	7.8	6.3	
				050	50.1	41.1	34.7	28.3	24.5	21.9	19.0	15.5	13.4	10.9	
				063	119	79.0	66.7	54.5	47.2	42.2	36.5	29.8	25.7		
				080	262	252	222	181	157	140	121	99	86		
Parallel cam drive	Linear and Circular Pick and Place type	18	120	040	30.6	23.9	20.6	16.8	14.5	13.0	11.3	9.2	8.0	6.5	
				050	50.1	41.3	35.6	29.1	25.2	22.5	19.5	15.9	13.8	11.2	
				063	119	79.5	68.5	55.9	48.4	43.3	37.5	30.6	26.4		
				080	262	253	228	186	161	144	125	102	88		
		150	150	040	10.9	7.88	6.86	6.32	5.97	5.70	5.38	4.40	3.79	3.03	
				050	37.9	22.3	18.4	15.0	13.0	11.6	10.0	8.1	7.0	5.5	
				063	85.1	52.3	43.1	35.2	30.4	27.2	23.5	19.0	16.2		
				080	152	75.8	62.5	51.0	44.1	39.4	34.0	27.3	23.1		
	Option	180	180	040	10.9	8.71	7.59	6.99	6.60	6.31	5.96	4.88	4.21	3.40	
				050	37.9	24.6	20.3	16.6	14.3	12.8	11.1	9.0	7.8	6.2	
				063	85.1	57.8	47.7	38.9	33.7	30.1	26.0	21.1	18.1		
				080	164	132	115	100	87	78	67	55	47		
	Option	210	210	040	30.6	21.2	17.5	14.3	12.4	11.1	9.6	7.8	6.8	5.5	
				050	51.5	36.8	30.3	24.8	21.5	19.2	16.6	13.5	11.7	9.4	
				063	85.1	62.0	51.1	41.7	36.1	32.3	27.9	22.7	19.6		
				080	164	141	123	108	93	83	72	59	51		
	Option	240	240	040	30.6	22.4	18.4	15.1	13.0	11.7	10.1	8.2	7.1	5.8	
				050	51.5	38.8	31.9	26.1	22.6	20.2	17.5	14.3	12.3	10.0	
				063	85.1	65.3	53.8	44.0	38.1	34.0	29.4	24.0	20.7		
				080	164	149	130	113	98	88	76	62	53		
	Option	270	270	040	30.6	23.3	19.2	15.7	13.6	12.2	10.5	8.6	7.4	6.1	
				050	51.5	40.4	33.3	27.2	23.5	21.0	18.2	14.9	12.8	10.4	
				063	85.1	68.1	56.1	45.8	39.6	35.5	30.7	25.0	21.6		
				080	164	155	135	118	102	91	79	65	56		
	Option	300	300	040	30.6	23.7	19.9	16.2	14.1	12.6	10.9	8.9	7.7	6.3	
				050	51.5	41.1	34.4	28.1	24.3	21.7	18.8	15.4	13.3	10.8	

● RGIS straight shaft (2 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
				Input shaft rotational speed (rpm)									
				15	30	45	60	75	100	150	200	300	
18	270	063	85.1	69.3	58.0	47.4	41.0	36.7	31.7	25.9	22.4		
		080	164	158	140	122	106	95	82	67	58		
	300	040	30.6	23.9	20.5	16.7	14.5	12.9	11.2	9.1	7.9	6.4	
		050	51.5	41.4	35.4	28.9	25.0	22.4	19.4	15.8	13.7	11.1	
		063	85.1	69.8	59.7	48.7	42.2	37.7	32.7	26.6	23.0		
		080	164	159	144	126	109	97	84	69	59		
	330	040	30.6	24.1	21.0	17.1	14.8	13.3	11.5	9.4	8.1	6.6	
		050	51.5	41.6	36.2	29.6	25.6	22.9	19.8	16.2	14.0	11.4	
		063	85.1	70.2	61.1	49.9	43.2	38.7	33.5	27.3	23.6		
		080	164	160	147	129	112	100	86	70	61		
	20	90	040	10.2	6.53	5.38	4.39	3.80	3.40	2.93	2.37	2.02	1.57
			050	19.9	13.1	11.4	10.5	9.8	9.4	8.8	7.2	6.1	4.7
063			25.3	16.5	14.3	13.2	12.4	11.8	11.1	10.0	8.7		
080			108	59.7	49.1	40.1	34.6	30.9	26.5	21.1	17.4		
120		040	10.9	8.19	7.13	6.58	6.21	5.93	5.60	4.58	3.94	3.17	
		050	37.9	23.2	19.1	15.6	13.5	12.1	10.4	8.5	7.3	5.7	
		063	63.6	40.9	33.7	27.5	23.8	21.3	18.4	14.8	12.6		
		080	152	78.9	65.0	53.0	45.9	41.0	35.4	28.5	24.2		
150		040	10.9	8.99	7.83	7.22	6.81	6.51	6.14	5.03	4.35	3.51	
		050	37.9	25.4	20.9	17.1	14.8	13.2	11.4	9.3	8.0	6.4	
		063	63.6	44.8	37.0	30.2	26.1	23.3	20.2	16.4	14.0		
		080	152	86.5	71.3	58.2	50.4	45.0	38.9	31.5	27.0		
180	040	10.9	9.59	8.35	7.70	7.27	6.95	6.56	5.37	4.64	3.77		
	050	37.9	27.1	22.3	18.2	15.8	14.1	12.2	9.9	8.6	6.9		
	063	63.6	47.8	39.4	32.2	27.9	24.9	21.5	17.5	15.1			
	080	152	92.3	76.1	62.1	53.8	48.1	41.6	33.8	29.0			
24	210	040	10.9	10.1	8.8	8.1	7.6	7.3	6.9	5.6	4.9	4.0	
		050	37.9	28.4	23.4	19.1	16.5	14.8	12.8	10.4	9.0	7.3	
		063	63.6	50.2	41.4	33.8	29.2	26.1	22.6	18.4	15.9		
		080	164	152	132	116	100	90	78	63	55		
	240	040	10.9	10.4	9.1	8.4	7.9	7.6	7.2	5.9	5.1	4.1	
		050	37.9	29.4	24.3	19.8	17.2	15.4	13.3	10.9	9.4	7.6	
		063	63.6	52.0	43.0	35.1	30.4	27.2	23.5	19.2	16.5		
		080	164	158	138	120	104	93	81	66	57		
	270	040	10.9	10.5	9.4	8.7	8.2	7.8	7.4	6.1	5.2	4.3	
		050	37.9	29.7	25.1	20.5	17.7	15.9	13.7	11.2	9.7	7.9	
		063	63.6	52.5	44.4	36.2	31.4	28.1	24.3	19.8	17.1		
		080	164	159	142	124	108	96	83	68	59		
300	040	10.9	10.6	9.7	8.9	8.4	8.0	7.6	6.2	5.4	4.4		
	050	37.9	29.8	25.8	21.0	18.2	16.3	14.1	11.5	10.0	8.1		
	063	85.1	70.2	60.7	49.5	42.9	38.4	33.2	27.1	23.4			
	080	164	160	146	128	111	99	86	70	60			
330	040	10.9	10.6	9.9	9.1	8.6	8.2	7.8	6.4	5.5	4.5		
	050	37.9	30.0	26.4	21.5	18.7	16.7	14.4	11.8	10.2	8.3		
	063	85.1	70.5	62.1	50.7	43.9	39.3	34.0	27.7	24.0			
	080	164	161	150	131	113	101	88	72	62			
24	90	040	7.19	5.14	4.24	3.46	2.99	2.67	2.31	1.87	1.59	1.23	
		050	12.8	9.31	8.10	7.47	7.04	6.72	6.33	5.13	4.35	3.29	
		063	25.3	17.8	15.5	14.3	13.5	12.8	12.0	10.9	9.6		
		080	80.0	48.3	39.8	32.5	28.0	25.0	21.5	17.1	14.1		
	120	040	7.19	5.77	4.75	3.88	3.36	3.00	2.60	2.11	1.81	1.40	
		050	12.8	10.4	9.1	8.4	7.9	7.6	7.1	5.8	5.0	3.9	
		063	25.3	20.2	17.6	16.2	15.3	14.6	13.8	12.6	11.2		
		080	108	73.3	60.4	49.3	42.7	38.1	32.9	26.6	22.6		

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive

Linear

Option

Output torque table

Index series

● RGIS straight shaft (2 dwell)

Cam curve/MS

Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
						Input shaft rotational speed (rpm)									
						15	30	45	60	75	100	150	200	300	
Roller gear cam drive	Compact	24	150	040	10.2	8.50	7.00	5.72	4.95	4.43	3.83	3.12	2.69	2.17	
				050	12.8	11.2	9.8	9.0	8.5	8.1	7.7	6.3	5.4	4.3	
				063	63.6	47.0	38.7	31.6	27.3	24.4	21.1	17.2	14.7		
				080	108	79.5	65.5	53.4	46.3	41.3	35.7	29.0	24.8		
		180		040	10.2	8.96	7.39	6.03	5.22	4.67	4.04	3.30	2.85	2.31	
				050	12.8	11.8	10.3	9.5	9.0	8.6	8.1	6.6	5.7	4.6	
				063	63.6	49.7	41.0	33.4	29.0	25.9	22.4	18.2	15.7		
				080	108	84.1	69.3	56.6	49.0	43.8	37.9	30.8	26.5		
	Standard	210		040	10.2	9.34	7.70	6.29	5.44	4.87	4.22	3.44	2.97	2.41	
				050	12.8	12.3	10.7	9.9	9.4	8.9	8.4	6.9	6.0	4.8	
				063	63.6	51.9	42.8	34.9	30.2	27.0	23.4	19.1	16.4		
				080	152	100	83	67	58	52	45	37	32		
	Table	240		040	10.2	9.47	7.96	6.50	5.63	5.04	4.36	3.56	3.08	2.50	
				050	12.8	12.5	11.1	10.2	9.7	9.2	8.7	7.2	6.2	5.0	
				063	63.6	52.7	44.3	36.2	31.3	28.0	24.3	19.8	17.1		
				080	152	102	86	70	60	54	47	38	33		
	Wide angle	270		040	10.2	9.51	8.19	6.69	5.79	5.18	4.49	3.66	3.17	2.58	
				050	37.9	29.9	25.8	21.1	18.2	16.3	14.1	11.5	9.9	8.1	
				063	63.6	53.0	45.6	37.3	32.3	28.9	25.0	20.4	17.6		
				080	152	102	88	72	62	56	48	39	34		
Parallel cam drive	Basic	300		040	10.2	9.55	8.40	6.86	5.94	5.31	4.60	3.75	3.25	2.65	
				050	37.9	30.1	26.4	21.6	18.7	16.7	14.5	11.8	10.2	8.3	
				063	63.6	53.2	46.8	38.2	33.1	29.6	25.6	20.9	18.1		
				080	152	103	90	74	64	57	49	40	35		
		330		040	10.2	9.57	8.58	7.01	6.07	5.43	4.70	3.84	3.32	2.71	
				050	37.9	30.2	27.0	22.1	19.1	17.1	14.8	12.1	10.5	8.5	
				063	63.6	53.4	47.9	39.1	33.8	30.3	26.2	21.4	18.5		
				080	152	103	92	75	65	58	51	41	36		
	Option	30		90	080	31.8	24.3	21.2	19.5	18.4	17.5	16.4	14.8	12.9	
				120	080	80.0	57.9	47.7	38.9	33.7	30.1	26.0	21.0	17.8	
				150	080	80.0	62.0	51.1	41.7	36.1	32.2	27.9	22.6	19.4	
				180	080	80.0	65.1	53.7	43.8	37.9	33.9	29.3	23.8	20.5	
		32		210	080	80.0	66.6	55.8	45.5	39.4	35.3	30.5	24.8	21.4	
				240	080	80.0	67.0	57.6	47.0	40.7	36.4	31.5	25.7	22.2	
				270	080	80.0	67.2	59.2	48.3	41.8	37.4	32.4	26.4	22.8	
				300	080	80.0	67.4	60.6	49.5	42.9	38.3	33.2	27.1	23.4	
		32		330	080	80.0	67.5	61.9	50.5	43.8	39.1	33.9	27.6	23.9	
				90	080	31.8	24.8	21.6	19.9	18.7	17.8	16.7	15.1	13.2	
				120	080	31.8	27.4	23.9	22.0	20.7	19.8	18.6	17.0	15.1	
				150	080	31.8	29.3	25.5	23.5	22.1	21.2	19.9	18.3	16.4	
				180	080	80.0	65.8	54.2	44.3	38.3	34.3	29.6	24.1	20.7	
				210	080	80.0	66.8	56.3	46.0	39.8	35.6	30.8	25.1	21.6	
				240	080	80.0	67.1	58.1	47.4	41.1	36.7	31.8	25.9	22.4	
				270	080	80.0	67.3	59.7	48.7	42.2	37.7	32.7	26.6	23.0	
		Option		300	080	80.0	67.5	61.1	49.9	43.2	38.6	33.4	27.3	23.6	
				330	080	80.0	67.6	62.4	50.9	44.1	39.4	34.1	27.9	24.1	

Option	Parallel cam drive		Roller gear cam drive				Product specifications			
			Basic		Wide angle	Table			Standard	Compact
	Pick and Place drive	Linear	Circular							

Product specifications

Output torque table

Index series

● RGIS straight shaft (3 dwell)

Cam curve/MS

Cam curve/MS															
Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
						Input shaft rotational speed (rpm)									
						10	20	30	40	50	70	100	140	200	
Compact	Standard	24	150	040	10.9	8.73	7.60	7.00	6.61	6.32	5.85	4.89	4.12	3.42	
				050	19.9	16.1	14.0	12.9	12.2	11.6	10.9	10.1	8.9	7.3	
063	85.1			57.9	47.7	39.0	33.7	30.2	25.5	21.2	17.8	14.6			
080	164			132	115	100	87	78	66	55	46	38			
Table	Wide angle		180	040	30.6	21.4	17.7	14.4	12.5	11.2	9.4	7.9	6.7	5.5	
				050	50.1	37.1	30.6	25.0	21.6	19.4	16.4	13.7	11.5	9.6	
063	85.1			62.5	51.5	42.1	36.4	32.6	27.5	23.0	19.3	15.9			
080	242			186	154	125	109	97	82	68	58	48			
Basic	Option		210	040	30.6	22.7	18.7	15.3	13.2	11.8	10.0	8.4	7.1	5.9	
				050	50.1	39.3	32.4	26.4	22.9	20.5	17.3	14.5	12.2	10.1	
063	85.1			66.2	54.5	44.5	38.6	34.5	29.1	24.3	20.5	17.0			
080	242			197	163	133	115	103	87	73	61	51			
Parallel cam drive	Circular Phase drive		240	040	30.6	23.2	19.5	16.0	13.8	12.4	10.4	8.7	7.4	6.2	
				050	50.1	40.2	33.8	27.6	23.9	21.4	18.1	15.1	12.8	10.6	
063	85.1			67.8	57.0	46.5	40.3	36.0	30.5	25.4	21.5	17.8			
080	262			246	216	177	153	137	116	97	81	68			
Roller gear cam drive	Table		270	040	30.6	23.5	20.3	16.5	14.3	12.8	10.8	9.1	7.6	6.4	
				050	50.1	40.7	35.1	28.6	24.8	22.2	18.7	15.7	13.2	11.0	
063	85.1			68.6	59.1	48.3	41.8	37.4	31.6	26.4	22.3	18.5			
080	262			249	224	183	159	142	120	100	85	70			
Wide angle	Basic		300	040	30.6	23.7	20.9	17.0	14.8	13.2	11.2	9.3	7.9	6.6	
				050	50.1	41.1	36.1	29.5	25.5	22.8	19.3	16.1	13.6	11.4	
063	85.1			69.2	60.9	49.7	43.1	38.5	32.5	27.2	23.0	19.1			
080	262			252	231	189	163	146	123	103	87	73			
Basic	Option		330	040	30.6	23.9	21.4	17.5	15.1	13.5	11.4	9.6	8.1	6.8	
				050	50.1	41.3	37.1	30.3	26.2	23.4	19.8	16.6	14.0	11.7	
063	85.1			69.7	62.5	51.0	44.2	39.5	33.4	27.9	23.6	19.7			
080	262			253	237	194	168	150	127	106	89	75			
Parallel cam drive	Circular Phase drive	120	040	10.9	8.53	7.43	6.85	6.47	6.18	5.72	4.78	4.02	3.30		
			050	22.8	17.9	15.6	14.3	13.5	12.6	10.6	8.8	7.4	6.1		
063	63.6		42.6	35.1	28.6	24.8	22.2	18.7	15.5	12.9	10.4				
080	152		82.2	67.7	55.3	47.8	42.7	36.0	29.9	24.9	19.9				
Roller gear cam drive	Table	150	040	10.9	9.36	8.15	7.51	7.09	6.78	6.28	5.25	4.42	3.68		
			050	37.9	26.4	21.8	17.8	15.4	13.8	11.6	9.7	8.2	6.8		
063	85.1		62.1	51.2	41.8	36.2	32.4	27.3	22.8	19.1	15.8				
080	152		90.1	74.3	60.6	52.5	46.9	39.6	33.0	27.6	22.5				
Wide angle	Basic	180	040	10.9	9.99	8.69	8.02	7.57	7.24	6.70	5.60	4.72	3.94		
			050	37.9	28.2	23.2	19.0	16.4	14.7	12.4	10.4	8.7	7.3		
063	85.1		66.3	54.6	44.6	38.6	34.5	29.2	24.3	20.5	17.0				
080	152		96.1	79.2	64.7	56.0	50.1	42.3	35.3	29.6	24.4				
Parallel cam drive	Circular Phase drive	210	040	10.9	10.3	9.1	8.4	7.9	7.6	7.0	5.9	5.0	4.1		
			050	37.9	29.1	24.4	19.9	17.2	15.4	13.0	10.9	9.2	7.6		
063	85.1		68.4	57.3	46.8	40.5	36.2	30.6	25.6	21.6	17.9				
080	164		156	138	121	105	93	79	66	56	46				
Wide angle	Basic	240	040	10.9	10.4	9.5	8.7	8.3	7.9	7.3	6.1	5.2	4.3		
			050	37.9	29.4	25.3	20.7	17.9	16.0	13.5	11.3	9.5	8.0		
063	85.1		69.2	59.6	48.6	42.1	37.7	31.8	26.6	22.4	18.7				
080	164		158	143	125	109	97	82	69	58	48				
Roller gear cam drive	Table	270	040	10.9	10.5	9.8	9.0	8.5	8.2	7.5	6.3	5.3	4.5		
			050	37.9	29.7	26.1	21.3	18.5	16.5	14.0	11.7	9.9	8.2		
063	85.1		69.8	61.5	50.2	43.5	38.9	32.9	27.5	23.2	19.3				
080	164		159	148	130	112	100	85	71	60	50				
Wide angle	Basic	300	040	10.9	10.6	10.1	9.3	8.8	8.4	7.8	6.5	5.5	4.6		
			050	37.9	29.8	26.8	21.9	19.0	17.0	14.3	12.0	10.1	8.5		

● RGIS straight shaft (3 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
				Input shaft rotational speed (rpm)									
				10	20	30	40	50	70	100	140	200	
30	300	063	85.1	70.2	63.2	51.6	44.7	39.9	33.8	28.2	23.8	19.9	
		080	164	160	152	133	115	103	87	73	61	51	
	330	040	10.9	10.6	10.3	9.5	9.0	8.6	7.9	6.6	5.6	4.7	
		050	37.9	30.0	27.5	22.4	19.4	17.4	14.7	12.3	10.4	8.7	
		063	85.1	70.5	64.7	52.8	45.7	40.9	34.6	28.9	24.4	20.4	
		080	164	161	156	136	118	106	89	75	63	53	
90	90	040	7.19	5.36	4.41	3.60	3.12	2.79	2.35	1.96	1.63	1.32	
		050	13.1	8.87	7.31	5.96	5.16	4.61	3.88	3.21	2.64	2.06	
		063	16.4	12.3	10.7	9.9	9.3	8.9	8.2	6.7	5.4	4.1	
		080	80.0	50.3	41.5	33.8	29.3	26.1	21.9	18.0	14.7	11.1	
	120	040	10.2	8.21	6.77	5.52	4.78	4.28	3.61	3.02	2.54	2.10	
		050	12.8	10.9	9.5	8.7	8.2	7.9	7.3	6.1	5.1	4.2	
120	120	063	25.3	21.1	18.3	16.9	15.9	15.2	14.2	13.2	11.5	9.3	
		080	108	76.4	62.9	51.4	44.5	39.7	33.5	27.8	23.2	18.7	
		150	040	10.2	8.85	7.29	5.95	5.16	4.61	3.89	3.25	2.74	2.28
			050	12.8	11.7	10.2	9.4	8.9	8.5	7.8	6.5	5.5	4.5
	063		63.6	48.9	40.3	32.9	28.5	25.5	21.5	17.9	15.1	12.4	
	080		108	82.7	68.2	55.7	48.2	43.1	36.4	30.3	25.4	20.8	
180	180	040	10.2	9.30	7.69	6.28	5.44	4.86	4.11	3.44	2.90	2.41	
		050	12.8	12.3	10.7	9.9	9.3	8.9	8.3	6.9	5.8	4.8	
		063	63.6	51.6	42.7	34.8	30.2	27.0	22.8	19.0	16.0	13.2	
		080	108	87.3	72.2	58.9	51.0	45.6	38.5	32.2	27.0	22.3	
	210	040	10.2	9.40	8.02	6.55	5.67	5.07	4.28	3.58	3.02	2.52	
		050	12.8	12.4	11.2	10.3	9.7	9.3	8.6	7.2	6.1	5.1	
210		063	63.6	52.2	44.6	36.4	31.5	28.2	23.8	19.9	16.8	13.9	
		080	152	101	86	70	61	54	46	38	32	27	
	240	040	10.2	9.47	8.29	6.77	5.86	5.24	4.43	3.71	3.13	2.61	
		050	12.8	12.5	11.6	10.7	10.1	9.6	8.9	7.5	6.3	5.2	
		063	63.6	52.7	46.2	37.7	32.6	29.2	24.7	20.6	17.4	14.5	
		080	152	102	89	73	63	56	48	40	34	28	
270	270	040	10.2	9.51	8.53	6.97	6.03	5.40	4.56	3.81	3.22	2.69	
		050	12.8	12.6	11.9	11.0	10.4	9.9	9.2	7.7	6.5	5.4	
		063	63.6	53.0	47.5	38.8	33.6	30.1	25.4	21.2	17.9	14.9	
		080	152	102	92	75	65	58	49	41	35	29	
	300	040	10.2	9.55	8.75	7.14	6.18	5.53	4.67	3.91	3.30	2.76	
		050	12.8	12.6	12.2	11.2	10.6	10.2	9.4	7.9	6.6	5.5	
063		63.6	53.2	48.7	39.8	34.5	30.8	26.0	21.8	18.4	15.3		
080		152	103	94	77	67	60	50	42	35	30		
330	330	040	10.2	9.57	8.94	7.30	6.32	5.65	4.78	4.00	3.38	2.82	
		050	12.8	12.6	12.5	11.5	10.8	10.4	9.6	8.0	6.8	5.7	
		063	63.6	53.4	49.8	40.7	35.2	31.5	26.6	22.3	18.8	15.7	
		080	152	103	96	79	68	61	51	43	36	30	
	48	90	080	31.8	25.8	22.5	20.7	19.5	18.6	17.3	15.9	13.7	10.6
		120	080	31.8	28.5	24.8	22.9	21.6	20.6	19.2	17.8	15.5	12.5
150		080	31.8	30.5	26.5	24.4	23.1	22.1	20.6	19.1	16.7	13.7	
180		080	80.0	66.3	56.5	46.1	39.9	35.7	30.1	25.1	21.1	17.4	
210		080	80.0	66.8	58.6	47.9	41.5	37.1	31.3	26.2	22.0	18.2	
240		080	80.0	67.1	60.5	49.4	42.8	38.3	32.3	27.0	22.8	18.9	
270		080	80.0	67.3	62.2	50.7	43.9	39.3	33.2	27.8	23.4	19.5	
300		080	80.0	67.5	63.6	51.9	45.0	40.2	34.0	28.4	24.0	20.0	
330		080	80.0	67.6	64.0	53.0	45.9	41.1	34.7	29.0	24.5	20.4	

Product specifications

Compact

Standard

Roller gear cam drive

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive

Linear

Circular

Option

Output torque table

Index series

● RGIS straight shaft (4 dwell)

Cam curve/MS

Product specifications			Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
							Input shaft rotational speed (rpm)									
							10	15	20	30	40	50	75	100	150	
Roller gear cam drive	Compact	32	180	040	10.9	9.16	8.44	7.97	7.35	6.94	6.63	5.44	4.70	3.83		
				050	50.1	36.1	31.5	27.3	22.3	19.3	17.2	14.1	12.2	9.9		
				063	85.1	60.8	53.0	45.9	37.5	32.5	29.0	23.7	20.4	16.5		
				080	164	138	128	118	97	84	75	61	53	43		
		210	180	040	30.6	22.0	19.2	16.7	13.6	11.8	10.5	8.6	7.4	6.1		
				050	50.1	38.2	33.3	28.9	23.6	20.4	18.2	14.9	12.9	10.5		
				063	85.1	64.3	56.1	48.6	39.7	34.4	30.7	25.1	21.7	17.6		
				080	242	192	167	145	118	103	92	75	65	52		
	Standard	240	180	040	30.6	23.0	20.1	17.4	14.2	12.3	11.0	9.0	7.8	6.3		
				050	50.1	39.9	34.8	30.2	24.6	21.3	19.1	15.6	13.5	11.0		
				063	85.1	67.2	58.7	50.8	41.5	35.9	32.1	26.2	22.7	18.4		
				080	262	244	223	193	157	136	122	99	86	70		
	Table	270	180	040	30.6	23.5	20.8	18.1	14.7	12.8	11.4	9.3	8.1	6.6		
				050	50.1	40.7	36.1	31.2	25.5	22.1	19.8	16.1	14.0	11.4		
				063	85.1	68.6	60.8	52.7	43.0	37.2	33.3	27.2	23.5	19.1		
				080	262	249	231	200	163	141	126	103	89	73		
	Wide angle	300	180	040	30.6	23.7	21.5	18.6	15.2	13.2	11.8	9.6	8.3	6.8		
				050	50.1	41.1	37.2	32.2	26.3	22.8	20.4	16.6	14.4	11.7		
				063	85.1	69.2	62.7	54.3	44.3	38.4	34.3	28.0	24.2	19.7		
				080	262	252	238	206	168	146	130	106	92	75		
Parallel cam drive	Basic	36	150	040	10.9	8.82	8.13	7.68	7.08	6.68	6.39	5.24	4.53	3.68		
				050	37.9	24.9	21.8	18.8	15.4	13.3	11.9	9.7	8.4	6.8		
				063	63.6	44.0	38.4	33.3	27.1	23.5	21.0	17.1	14.7	11.8		
				080	152	84.9	74.1	64.2	52.4	45.3	40.5	33.0	28.4	22.7		
		180	150	040	30.6	21.5	18.8	16.3	13.3	11.5	10.3	8.4	7.3	5.9		
				050	51.5	37.3	32.5	28.2	23.0	19.9	17.8	14.5	12.6	10.2		
				063	85.1	62.7	54.8	47.4	38.7	33.5	30.0	24.4	21.1	17.1		
				080	164	143	132	122	100	86	77	63	54	44		
	Option	210	150	040	30.6	22.6	19.8	17.1	14.0	12.1	10.8	8.8	7.6	6.2		
				050	51.5	39.2	34.2	29.7	24.2	21.0	18.7	15.3	13.2	10.8		
				063	85.1	66.1	57.7	50.0	40.8	35.3	31.6	25.8	22.3	18.1		
				080	164	151	139	129	105	91	81	66	57	47		
	Circular Pitch and Pitches	240	150	040	30.6	23.5	20.6	17.8	14.6	12.6	11.3	9.2	8.0	6.5		
				050	51.5	40.7	35.7	30.9	25.2	21.8	19.5	15.9	13.8	11.2		
				063	85.1	68.6	60.1	52.1	42.5	36.8	32.9	26.8	23.2	18.9		
				080	164	156	145	134	110	95	85	69	60	49		
	Linear	270	150	040	30.6	23.7	21.3	18.5	15.1	13.0	11.7	9.5	8.2	6.7		
				050	51.5	41.1	36.9	31.9	26.1	22.6	20.2	16.5	14.3	11.6		
				063	85.1	69.3	62.2	53.8	44.0	38.1	34.0	27.8	24.0	19.5		
				080	164	158	150	139	113	98	88	72	62	50		
	Option	300	150	040	30.6	23.9	21.9	19.0	15.5	13.4	12.0	9.8	8.5	6.9		
				050	51.5	41.4	37.9	32.8	26.8	23.2	20.8	16.9	14.7	12.0		
				063	85.1	69.8	64.0	55.4	45.2	39.2	35.0	28.6	24.7	20.1		
				080	164	159	154	143	117	101	90	74	64	52		
	Option	330	150	040	30.6	24.1	22.5	19.5	15.9	13.8	12.3	10.0	8.7	7.1		
				050	51.5	41.6	38.8	33.6	27.5	23.8	21.3	17.4	15.0	12.3		
				063	85.1	70.2	65.5	56.8	46.3	40.1	35.9	29.3	25.4	20.7		
				080	164	160	158	146	120	104	93	76	65	53		

● RGIS straight shaft (4 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				10	15	20	30	40	50	75	100	150
40	150	040	10.9	9.10	8.39	7.92	7.30	6.89	6.59	5.40	4.67	3.80
		050	37.9	25.7	22.4	19.4	15.9	13.7	12.3	10.0	8.6	7.0
		063	63.6	45.4	39.6	34.3	28.0	24.2	21.7	17.6	15.2	12.2
		080	152	87.6	76.4	66.2	54.0	46.8	41.8	34.0	29.3	23.5
	180	040	10.9	9.70	8.95	8.45	7.79	7.35	7.03	5.76	4.99	4.06
		050	37.9	27.4	23.9	20.7	16.9	14.6	13.1	10.7	9.2	7.5
		063	85.1	64.4	56.2	48.7	39.7	34.4	30.8	25.1	21.7	17.5
		080	164	147	135	126	102	89	79	65	56	45
	210	040	10.9	10.2	9.4	8.9	8.2	7.7	7.4	6.1	5.2	4.3
		050	37.9	28.7	25.1	21.7	17.7	15.4	13.7	11.2	9.7	7.9
		063	85.1	67.6	59.0	51.1	41.7	36.1	32.3	26.3	22.8	18.5
		080	164	154	142	132	108	93	83	68	59	48
	240	040	10.9	10.4	9.8	9.2	8.5	8.0	7.7	6.3	5.4	4.4
		050	37.9	29.4	26.1	22.6	18.4	16.0	14.3	11.6	10.1	8.2
		063	85.1	69.2	61.3	53.1	43.3	37.5	33.6	27.4	23.7	19.3
		080	164	158	148	137	112	97	87	71	61	50
	270	040	10.9	10.5	10.1	9.5	8.8	8.3	7.9	6.5	5.6	4.6
		050	37.9	29.7	26.9	23.3	19.0	16.5	14.7	12.0	10.4	8.5
		063	85.1	69.8	63.3	54.8	44.7	38.7	34.6	28.3	24.5	19.9
		080	164	159	152	141	115	100	89	73	63	51
	300	040	10.9	10.6	10.4	9.8	9.0	8.5	8.1	6.7	5.8	4.7
		050	37.9	29.8	27.6	23.9	19.5	16.9	15.1	12.3	10.7	8.7
		063	85.1	70.2	65.0	56.3	46.0	39.8	35.6	29.1	25.1	20.5
		080	164	160	157	145	119	103	92	75	65	53
	330	040	10.9	10.6	10.6	10.0	9.2	8.7	8.3	6.8	5.9	4.8
		050	37.9	30.0	28.3	24.5	20.0	17.3	15.5	12.6	10.9	8.9
		063	85.1	70.5	66.6	57.6	47.1	40.8	36.5	29.8	25.8	21.0
		080	164	161	160	149	121	105	94	77	66	54
48	120	040	10.2	7.98	6.96	6.03	4.92	4.26	3.81	3.11	2.68	2.17
		050	12.8	10.6	9.7	9.2	8.5	8.0	7.6	6.3	5.4	4.3
		063	25.3	20.5	18.9	17.8	16.4	15.5	14.8	13.6	12.2	9.7
		080	80.0	55.4	48.3	41.9	34.1	29.5	26.4	21.4	18.3	14.4
	150	040	10.2	8.60	7.50	6.50	5.31	4.59	4.11	3.35	2.90	2.35
		050	12.8	11.4	10.5	9.9	9.1	8.6	8.2	6.7	5.8	4.7
		063	63.6	47.5	41.5	35.9	29.3	25.4	22.7	18.5	15.9	12.8
		080	108	80.4	70.2	60.8	49.6	42.9	38.4	31.2	26.9	21.6
	180	040	10.2	9.07	7.92	6.86	5.60	4.85	4.34	3.54	3.06	2.49
		050	12.8	12.0	11.1	10.4	9.6	9.1	8.7	7.1	6.2	5.0
		063	63.6	50.3	43.9	38.0	31.0	26.9	24.0	19.6	16.9	13.7
		080	108	85.1	74.3	64.3	52.5	45.5	40.7	33.1	28.6	23.1
	210	040	10.2	9.40	8.25	7.15	5.84	5.05	4.52	3.69	3.19	2.60
		050	12.8	12.4	11.5	10.9	10.0	9.5	9.0	7.4	6.4	5.2
		063	63.6	52.2	45.9	39.7	32.4	28.1	25.1	20.5	17.7	14.4
		080	152	101	89	77	63	54	48	40	34	28
	240	040	10.2	9.47	8.54	7.39	6.04	5.23	4.67	3.82	3.30	2.69
		050	12.8	12.5	11.9	11.2	10.4	9.8	9.4	7.7	6.6	5.4
		063	63.6	52.7	47.5	41.1	33.6	29.1	26.0	21.2	18.3	14.9
		080	152	102	92	79	65	56	50	41	35	29
	270	040	10.2	9.51	8.78	7.61	6.21	5.38	4.81	3.93	3.40	2.77
		050	12.8	12.6	12.2	11.6	10.7	10.1	9.6	7.9	6.8	5.6
		063	63.6	53.0	48.9	42.4	34.6	29.9	26.8	21.9	18.9	15.4
		080	152	102	94	82	67	58	52	42	36	30
	300	040	10.2	9.55	9.00	7.79	6.36	5.51	4.93	4.02	3.48	2.84
		050	12.8	12.6	12.6	11.9	10.9	10.3	9.9	8.1	7.0	5.7

Product specifications

Compact

Standard

Roller gear cam drive

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive

Linear

Circular

Option

Output torque table

Index series

● RGIS straight shaft (4 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				10	15	20	30	40	50	75	100	150
48	300	063	63.6	53.2	50.2	43.4	35.5	30.7	27.5	22.4	19.4	15.8
		080	152	103	97	84	69	59	53	43	37	30
	330	040	10.2	9.57	9.06	7.97	6.50	5.63	5.04	4.11	3.56	2.90
		050	12.8	12.6	12.6	12.1	11.2	10.5	10.1	8.3	7.2	5.8
		063	63.6	53.4	50.5	44.4	36.3	31.4	28.1	22.9	19.8	16.2
		080	152	103	98	86	70	61	54	44	38	31

Product specifications	Compact
	Standard
	Table
	Wide angle
Roller gear cam drive	Basic
	Parallel cam drive
	Linear Circular Peak and Pass drive
Option	

Option	Parallel cam drive		Roller gear cam drive				Product specifications	
	Pick and Place drive		Basic	Wide angle	Table	Standard		
	Linear							
	Circular							

Output torque table

Index series

● RGIS flange shaft (1 dwell)

Cam curve/MS

Product specifications		Cam curve/MS												
		Index number	Total Index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
						Input shaft rotational speed (rpm)								
						30	60	90	120	150	200	300	400	600
Compact	Standard	2	270	040	10.9	5.41	4.70	4.32	4.07	3.87	3.60	2.81		
				050	19.9	10.0	8.7	8.0	7.6	7.2	6.7			
				063	85.1	36.0	29.6	24.2	20.9	18.6				
				080	164	81.8	71.2	62.2	53.7	47.8				
			300	040	30.6	13.4	11.0	9.0	7.8	6.9	6.0	4.7		
				050	50.1	23.4	19.3	15.7	13.6	12.1	10.4			
				063	85.1	39.2	32.3	26.3	22.7	20.3	17.4			
				080	242	117	96	78	68	60				
			330	040	30.6	14.4	11.9	9.7	8.4	7.5	6.4	5.1		
				050	50.1	25.1	20.7	16.9	14.6	13.0	11.2	9.0		
				063	119	48.0	39.5	32.2	27.9	24.9	21.4			
				080	242	125	103	84	73	65				
Wide angle	Table	3	180	040	10.9	5.19	4.51	4.14	3.88	3.68	3.40	2.57		
				050	19.9	9.64	8.38	7.70	7.23	6.87	6.38			
				063	85.1	34.6	28.4	23.2	20.0	17.7				
				080	164	78.5	68.3	59.6	51.4	45.7				
			210	040	10.9	5.87	5.10	4.69	4.41	4.19	3.90	3.04		
				050	50.1	23.3	19.2	15.7	13.5	12.1	10.4			
				063	85.1	39.0	32.1	26.2	22.6	20.1	17.2			
				080	242	116	96	78	67	60				
			240	040	30.6	14.7	12.1	9.9	8.5	7.6	6.5	5.2	4.3	
				050	50.1	25.6	21.1	17.2	14.9	13.3	11.4	9.2		
				063	85.1	42.9	35.4	28.8	24.9	22.2	19.1			
				080	242	128	105	86	74	66	57			
			270	040	41.6	22.1	18.2	14.9	12.9	11.5	9.9	8.0	6.8	
				050	50.1	27.7	22.8	18.6	16.1	14.4	12.4	10.0		
				063	85.1	46.4	38.2	31.2	27.0	24.1	20.7			
				080	242	138	114	93	80	72	62			
			300	040	41.6	23.6	19.4	15.9	13.7	12.3	10.6	8.6	7.3	
				050	67.0	39.2	32.3	26.3	22.8	20.4	17.6	14.2		
				063	119	56.4	46.5	37.9	32.8	29.3	25.3			
				080	262	179	154	126	109	97	84			
			330	040	41.6	24.9	20.5	16.7	14.5	12.9	11.2	9.1	7.8	
				050	67.0	41.2	34.0	27.7	24.0	21.5	18.6	15.0		
				063	129	93.3	81.2	71.1	61.5	55.0	47.5			
				080	262	189	163	133	115	103	89			
Basic	Parallel cam drive	4	150	040	10.2	5.17	4.25	3.45	2.96	2.61	2.17	1.54		
				050	12.8	6.91	6.00	5.51	5.16	4.88	4.50			
				063	63.6	27.5	22.6	18.4	15.8	14.0	11.8			
				080	108	46.3	38.1	30.9	26.5	23.4				
			180	040	10.9	6.28	5.46	5.02	4.72	4.49	4.18	3.26	2.58	
				050	19.9	11.6	10.1	9.3	8.7	8.3	7.8	6.9		
				063	63.6	31.4	25.8	21.0	18.1	16.1	13.8			
				080	152	60.4	49.7	40.5	34.9	31.0	26.3			
			210	040	17.9	11.5	10.1	9.3	8.7	8.2	7.0	5.6	4.7	
				050	19.9	12.8	11.2	10.3	9.7	9.2	8.6	7.8		
				063	63.6	34.7	28.5	23.3	20.1	17.9	15.4			
				080	164	105	91	80	69	61	53			
			240	040	17.9	12.4	10.8	10.0	9.5	8.8	7.6	6.1	5.2	
				050	19.9	13.8	12.0	11.1	10.5	10.0	9.4	8.5		
				063	63.6	37.4	30.8	25.1	21.7	19.4	16.7			
				080	164	113	99	86	75	67	57			
			270	040	17.9	13.2	11.5	10.6	10.0	9.4	8.1	6.6	5.6	
				050	19.9	14.7	12.8	11.8	11.1	10.6	10.0	9.1		

● RGIS flange shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
				Input shaft rotational speed (rpm)									
				30	60	90	120	150	200	300	400	600	
4	270	063	63.6	39.8	32.8	26.7	23.1	20.6	17.8				
		080	164	120	105	92	79	71	61				
	300	040	30.6	19.0	15.7	12.8	11.1	9.9	8.6	6.9	5.9		
		050	50.1	33.1	27.3	22.2	19.3	17.2	14.9	12.0			
		063	85.1	55.6	45.8	37.4	32.4	28.9	25.0				
		080	164	127	110	96	83	75	64				
	330	040	30.6	19.9	16.4	13.4	11.6	10.3	8.9	7.2	6.2		
		050	50.1	34.5	28.4	23.2	20.1	17.9	15.5	12.6			
		063	85.1	58.0	47.8	39.0	33.7	30.2	26.1				
		080	164	132	115	101	87	78	67				
	5	120	040	7.19	3.73	3.06	2.47	2.10	1.83	1.48	0.91		
			050	13.1	6.31	5.18	4.20	3.58	3.13	2.57	1.69		
063			16.4	8.50	7.35	6.70	6.22	5.80	5.17				
080			80.0	34.1	28.0	22.7	19.3	16.9					
150		040	7.19	4.33	3.56	2.89	2.48	2.18	1.82	1.30	0.85		
		050	12.8	7.83	6.81	6.25	5.87	5.58	5.18	3.98			
		063	25.3	14.7	12.8	11.7	11.0	10.4	9.6				
		080	108	53.3	43.8	35.6	30.7	27.2	23.0				
180		040	10.2	6.53	5.37	4.38	3.77	3.35	2.86	2.20	1.71		
		050	12.8	8.68	7.55	6.94	6.53	6.22	5.81	4.58			
		063	25.3	16.5	14.3	13.2	12.4	11.8	11.0				
		080	108	59.6	49.1	40.0	34.5	30.7	26.2				
210		040	14.8	7.05	5.81	4.73	4.08	3.64	3.12	2.45	1.98		
		050	12.8	9.3	8.1	7.5	7.0	6.7	6.3	5.0			
		063	63.6	38.4	31.6	25.8	22.3	19.9	17.1				
		080	152	74.0	60.9	49.7	42.9	38.2	32.8				
240		040	10.9	8.19	7.13	6.57	6.19	5.91	5.55	4.48	3.77		
		050	37.9	23.2	19.1	15.6	13.5	12.0	10.4	8.4			
		063	63.6	40.9	33.7	27.5	23.8	21.2	18.3				
		080	152	78.9	65.0	53.0	45.8	40.9	35.2				
270		040	10.9	8.62	7.50	6.91	6.52	6.23	5.86	4.75	4.02		
		050	37.9	24.4	20.1	16.4	14.2	12.7	10.9	8.8			
		063	63.6	43.0	35.4	28.9	25.0	22.3	19.3				
		080	152	83.0	68.4	55.8	48.3	43.1	37.1				
300		040	10.9	8.99	7.82	7.21	6.80	6.50	6.12	4.97	4.23		
		050	37.9	25.4	20.9	17.1	14.8	13.2	11.4	9.2			
		063	63.6	44.8	37.0	30.2	26.1	23.3	20.1				
		080	152	86.5	71.3	58.2	50.3	45.0	38.8				
330		040	10.9	9.31	8.10	7.47	7.04	6.73	6.34	5.16	4.41		
		050	37.9	26.3	21.7	17.7	15.3	13.7	11.8	9.6			
		063	63.6	46.4	38.3	31.2	27.0	24.1	20.9				
		080	152	89.6	73.8	60.3	52.1	46.6	40.2				
6	90	040	10.9	4.84	4.19	3.83	3.56	3.34	3.01	2.03			
		050	19.9	8.99	7.80	7.13	6.66	6.27	5.71				
		063	85.1	32.2	26.5	21.5	18.4	16.2					
		080	164	73.3	63.6	55.3	47.5	41.8					
	120	040	41.6	19.1	15.7	12.8	11.1	9.9	8.5	6.6	5.4		
		050	67.0	31.8	26.2	21.4	18.4	16.4	14.1	11.1			
		063	119	45.7	37.6	30.6	26.4	23.5	20.0				
		080	262	145	125	102	88	78	67				
	150	040	41.6	22.0	18.1	14.8	12.8	11.4	9.8	7.9	6.6		
		050	67.0	36.5	30.1	24.6	21.2	18.9	16.3	13.1			
		063	129	82.6	71.9	62.9	54.4	48.5	41.8				
		080	262	167	144	117	101	91	78				

Product specifications

Compact

Standard

Roller gear cam drive

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive

Linear

Circular

Option

Output torque table

Index series

● RGIS flange shaft (1 dwell)

Cam curve/MS

Cam curve/MS													
Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)							
						Input shaft rotational speed (rpm)							
						30	60	90	120	150	200	300	400
Roller gear cam drive	Compact	6	180	040	41.6	24.3	20.0	16.3	14.1	12.6	10.9	8.8	7.4
				050	67.0	40.2	33.1	27.0	23.4	20.9	18.0	14.6	
				063	129	91.0	79.2	69.3	60.0	53.6	46.2		
				080	431	224	185	151	131	117	101		
		210	040	41.6	26.1	21.5	17.5	15.2	13.6	11.7	9.5	8.1	
			050	67.0	43.2	35.6	29.0	25.1	22.4	19.4	15.7		
			063	129	97.8	85.1	74.5	64.4	57.6	49.8			
			080	431	241	199	162	140	125	108			
		240	040	41.6	27.6	22.7	18.5	16.0	14.3	12.4	10.1	8.6	
			050	67.0	45.6	37.6	30.7	26.5	23.7	20.5	16.6		
			063	129	103	90	79	68	61	53			
			080	431	255	210	171	148	133	115			
	270	040	41.6	28.8	23.7	19.4	16.8	15.0	13.0	10.5	9.1		
		050	67.0	47.6	39.2	32.0	27.7	24.8	21.4	17.4			
		063	129	108	94	82	71	64	55				
		080	431	266	219	179	155	139	120				
	300	040	41.6	29.9	24.6	20.1	17.4	15.6	13.5	10.9	9.4		
		050	67.0	49.3	40.6	33.2	28.7	25.7	22.2	18.1			
		063	129	112	97	85	74	66	57				
		080	431	276	228	186	161	144	124				
	330	040	41.6	30.8	25.4	20.7	17.9	16.0	13.9	11.3	9.7		
		050	67.0	50.8	41.9	34.2	29.6	26.5	22.9	18.7			
		063	129	115	100	88	76	68	59				
		080	431	285	235	192	166	148	128				
Basic	90	040	10.9	5.85	5.08	4.66	4.36	4.11	3.77	2.76	1.91		
		050	50.1	23.2	19.1	15.6	13.4	11.9	10.1	7.8			
		063	85.1	38.9	32.0	26.0	22.4	19.8	16.8				
		080	164	88.5	76.9	67.1	57.7	51.2	43.3				
	120	040	30.6	15.9	13.1	10.7	9.2	8.2	7.0	5.6	4.5		
		050	50.1	27.7	22.8	18.6	16.0	14.3	12.3	9.7			
		063	85.1	46.4	38.2	31.2	26.9	24.0	20.5				
		080	242	138	114	93	80	71	61				
	150	040	30.6	17.8	14.6	11.9	10.3	9.2	7.9	6.4	5.3		
		050	50.1	30.9	25.4	20.7	17.9	16.0	13.8	11.1			
		063	85.1	51.9	42.8	34.9	30.1	26.9	23.1				
		080	242	155	127	104	90	80	69				
Parallel cam drive	180	040	30.6	19.2	15.8	12.9	11.2	10.0	8.6	6.9	5.9		
		050	50.1	33.3	27.4	22.4	19.4	17.3	14.9	12.1			
		063	85.1	56.0	46.2	37.7	32.6	29.1	25.1				
		080	242	167	138	112	97	87	75				
	210	040	30.6	20.3	16.7	13.7	11.8	10.6	9.1	7.4	6.3		
		050	50.1	35.2	29.0	23.7	20.5	18.3	15.8	12.8			
		063	85.1	59.3	48.9	39.9	34.5	30.8	26.6				
		080	242	177	146	119	103	92	79				
	240	040	30.6	21.2	17.5	14.3	12.4	11.1	9.6	7.8	6.6		
		050	50.1	36.8	30.3	24.7	21.4	19.1	16.6	13.4			
		063	85.1	62.0	51.1	41.7	36.1	32.2	27.9				
		080	242	185	152	124	108	96	83				
270	040	30.6	22.0	18.1	14.8	12.8	11.5	9.9	8.1	6.9			
	050	50.1	38.1	31.4	25.6	22.2	19.8	17.2	14.0				
	063	85.1	64.2	52.9	43.2	37.4	33.4	28.9					
	080	262	233	201	164	142	127	110					
Option	300	040	30.6	22.7	18.7	15.3	13.2	11.8	10.2	8.3	7.2		
		050	50.1	39.3	32.4	26.4	22.9	20.4	17.7	14.4			

● RGIS flange shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
8	300	063	85.1	66.2	54.6	44.5	38.6	34.5	29.8			
		080	262	241	207	169	146	131	113			
	330	040	30.6	23.3	19.2	15.7	13.6	12.1	10.5	8.5	7.4	
		050	50.1	40.3	33.2	27.1	23.5	21.0	18.2	14.8		
		063	85.1	67.9	56.0	45.7	39.6	35.4	30.6			
		080	262	247	212	173	150	134	116			
9	90	040	10.9	6.25	5.43	4.98	4.67	4.42	4.07	3.04	2.20	
		050	37.9	17.8	14.6	11.9	10.2	9.1	7.7	5.9		
		063	63.6	31.2	25.7	20.9	18.0	15.9	13.4			
		080	152	60.2	49.5	40.2	34.5	30.4	25.5			
	120	040	10.9	7.35	6.39	5.88	5.53	5.26	4.91	3.86	3.10	
		050	37.9	20.8	17.1	14.0	12.1	10.8	9.2	7.3		
		063	63.6	36.7	30.2	24.6	21.2	18.9	16.2			
		080	152	70.7	58.2	47.4	40.9	36.3	31.0			
	150	040	10.9	8.13	7.07	6.51	6.13	5.85	5.49	4.39	3.65	
		050	37.9	23.0	18.9	15.4	13.4	11.9	10.3	8.2		
		063	85.1	54.0	44.5	36.3	31.4	28.0	24.1			
		080	164	123	107	94	81	72	62			
	180	040	10.9	8.72	7.59	6.99	6.59	6.29	5.91	4.78	4.03	
		050	51.5	34.3	28.3	23.1	20.0	17.9	15.4	12.5		
		063	85.1	57.9	47.7	38.9	33.7	30.1	25.9			
		080	164	132	115	100	87	78	67			
	210	040	30.6	20.9	17.2	14.0	12.2	10.9	9.4	7.6	6.5	
		050	51.5	36.2	29.8	24.3	21.1	18.8	16.3	13.2		
		063	85.1	60.9	50.2	41.0	35.5	31.7	27.4			
		080	164	139	121	106	92	82	71			
	240	040	30.6	21.8	17.9	14.6	12.7	11.3	9.8	8.0	6.8	
		050	51.5	37.7	31.0	25.3	21.9	19.6	17.0	13.8		
		063	85.1	63.5	52.3	42.7	37.0	33.0	28.6			
		080	164	145	126	110	95	85	74			
	270	040	30.6	22.5	18.5	15.1	13.1	11.7	10.1	8.2	7.1	
		050	51.5	38.9	32.1	26.2	22.7	20.3	17.5	14.3		
		063	85.1	65.7	54.1	44.2	38.2	34.2	29.6			
		080	164	150	130	114	99	88	76			
	300	040	30.6	23.2	19.1	15.6	13.5	12.1	10.4	8.5	7.3	
		050	51.5	40.0	33.0	26.9	23.3	20.9	18.1	14.7		
		063	85.1	67.5	55.7	45.4	39.3	35.2	30.4			
		080	164	154	134	117	102	91	79			
	330	040	30.6	23.7	19.6	16.0	13.8	12.4	10.7	8.7	7.5	
		050	51.5	41.0	33.8	27.6	23.9	21.4	18.5	15.1		
		063	85.1	69.2	57.1	46.6	40.3	36.1	31.2			
		080	164	158	137	120	104	93	81			
10	90	040	10.2	6.09	5.00	4.06	3.48	3.07	2.57	1.83	1.21	
		050	12.8	8.10	7.03	6.45	6.05	5.73	5.28	3.97		
		063	25.3	15.4	13.3	12.2	11.4	10.8	9.9			
		080	108	55.6	45.7	37.2	31.9	28.2	23.6			
	120	040	10.9	7.64	6.65	6.12	5.76	5.48	5.13	4.05	3.29	
		050	37.9	21.6	17.8	14.5	12.5	11.2	9.6	7.6		
		063	63.6	38.1	31.4	25.6	22.1	19.7	16.9			
		080	152	73.6	60.6	49.4	42.6	37.9	32.3			
	150	040	10.9	8.39	7.30	6.72	6.33	6.04	5.67	4.55	3.80	
		050	37.9	23.7	19.5	15.9	13.8	12.3	10.6	8.5		
		063	63.6	41.8	34.5	28.1	24.3	21.7	18.7			
		080	152	80.7	66.5	54.2	46.9	41.8	35.9			

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive

Linear

Circular

Option

● RGIS flange shaft (1 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				30	60	90	120	150	200	300	400	600
12	300	063	63.6	53.0	43.7	35.7	30.9	27.6	23.9			
		080	152	102	84	69	60	53	46			
	330	040	10.9	10.7	9.4	8.7	8.2	7.8	7.4			
		050	19.9	19.6	17.4	16.0	15.1	14.4	13.6	6.0	5.2	
		063	63.6	53.4	44.7	36.5	31.6	28.2	24.4			
		080	152	103	86	70	61	54	47			
15	90	080	31.8	22.7	19.7	18.0	16.9	15.9	14.6			
	120	080	80.0	54.0	44.5	36.2	31.3	27.8	23.8			
	150	080	80.0	57.8	47.6	38.8	33.6	29.9	25.7			
	180	080	80.0	60.7	50.1	40.8	35.3	31.5	27.2			
	210	080	80.0	63.2	52.0	42.5	36.7	32.8	28.3			
	240	080	80.0	65.2	53.7	43.9	38.0	33.9	29.3			
	270	080	80.0	67.0	55.2	45.1	39.0	34.9	30.1			
	300	080	80.0	67.4	56.6	46.2	40.0	35.7	30.9			
16	330	080	80.0	67.5	57.8	47.1	40.8	36.5	31.6			
	90	080	31.8	23.1	20.1	18.4	17.2	16.3	14.9			
	120	080	31.8	25.6	22.2	20.4	19.2	18.2	17.0			
	150	080	31.8	27.3	23.7	21.8	20.6	19.6	18.3			
	180	080	80.0	61.4	50.6	41.3	35.7	31.9	27.5			
	210	080	80.0	63.7	52.5	42.9	37.1	33.1	28.6			
	240	080	80.0	65.8	54.2	44.2	38.3	34.2	29.6			
	270	080	80.0	67.3	55.7	45.4	39.3	35.2	30.4			
	300	080	80.0	67.5	57.0	46.5	40.3	36.0	31.1			
	330	080	80.0	67.6	58.2	47.5	41.1	36.8	31.8			

Product specifications

Roller gear cam drive	Compact	
	Standard	
	Table	
	Wide angle	
Parallel cam drive	Basic	
	Pick and Place drive	
Option	Linear	
	Circular	

● RGIS flange shaft (2 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				15	30	45	60	75	100	150	200	300
18	270	063	85.1	69.3	58.0	47.4	41.0	36.7	31.7	25.8	22.3	
		080	164	158	140	122	106	95	82	67	58	
	300	040	30.6	23.9	20.4	16.7	14.5	12.9	11.2	9.1	7.9	6.4
		050	51.5	41.4	35.4	28.9	25.0	22.4	19.4	15.8	13.6	11.1
		063	85.1	69.8	59.7	48.7	42.2	37.7	32.6	26.6	23.0	
		080	164	159	144	126	109	97	84	69	59	
	330	040	30.6	24.1	21.0	17.1	14.8	13.3	11.5	9.4	8.1	6.6
		050	51.5	41.6	36.2	29.6	25.6	22.9	19.8	16.2	14.0	11.4
		063	85.1	70.2	61.1	49.9	43.2	38.7	33.5	27.3	23.6	
		080	164	160	147	129	112	100	86	70	61	
20	90	040	10.2	6.53	5.37	4.38	3.77	3.35	2.86	2.20	1.71	0.87
		050	19.9	13.1	11.4	10.5	9.8	9.3	8.7	7.0	5.8	4.0
		063	25.3	16.5	14.3	13.2	12.4	11.8	11.0	9.7	8.2	
		080	108	59.6	49.1	40.0	34.5	30.7	26.2	20.3	16.0	
	120	040	10.9	8.19	7.13	6.57	6.19	5.91	5.55	4.48	3.77	2.77
		050	37.9	23.2	19.1	15.6	13.5	12.0	10.4	8.4	7.1	5.3
		063	63.6	40.9	33.7	27.5	23.8	21.2	18.3	14.7	12.3	
		080	152	78.9	65.0	53.0	45.8	40.9	35.2	28.1	23.4	
	150	040	10.9	8.99	7.82	7.21	6.80	6.50	6.12	4.97	4.23	3.26
		050	37.9	25.4	20.9	17.1	14.8	13.2	11.4	9.2	7.9	6.2
		063	63.6	44.8	37.0	30.2	26.1	23.3	20.1	16.3	13.8	
		080	152	86.5	71.3	58.2	50.3	45.0	38.8	31.3	26.5	
	180	040	10.9	9.59	8.35	7.69	7.26	6.94	6.54	5.33	4.57	3.59
		050	37.9	27.1	22.3	18.2	15.8	14.1	12.2	9.9	8.5	6.7
		063	63.6	47.8	39.4	32.2	27.8	24.9	21.5	17.4	14.9	
		080	152	92.3	76.1	62.1	53.7	48.0	41.5	33.6	28.7	
	210	040	10.9	10.1	8.8	8.1	7.6	7.3	6.9	5.6	4.8	3.8
		050	37.9	28.4	23.4	19.1	16.5	14.8	12.8	10.4	9.0	7.2
		063	63.6	50.2	41.4	33.8	29.2	26.1	22.6	18.4	15.8	
		080	164	152	132	116	100	90	78	63	54	
	240	040	10.9	10.4	9.1	8.4	7.9	7.6	7.1	5.8	5.0	4.0
		050	37.9	29.4	24.3	19.8	17.2	15.4	13.3	10.8	9.3	7.5
		063	63.6	52.0	43.0	35.1	30.4	27.2	23.5	19.1	16.5	
		080	164	158	138	120	104	93	81	66	57	
	270	040	10.9	10.5	9.4	8.7	8.2	7.8	7.4	6.0	5.2	4.2
		050	37.9	29.7	25.1	20.5	17.7	15.9	13.7	11.2	9.7	7.8
		063	63.6	52.5	44.4	36.2	31.4	28.1	24.3	19.8	17.0	
		080	164	159	142	124	108	96	83	68	59	
	300	040	10.9	10.6	9.7	8.9	8.4	8.0	7.6	6.2	5.4	4.3
		050	37.9	29.8	25.8	21.0	18.2	16.3	14.1	11.5	9.9	8.0
		063	85.1	70.2	60.7	49.5	42.9	38.3	33.2	27.1	23.4	
		080	164	160	146	128	111	99	86	70	60	
	330	040	10.9	10.6	9.9	9.1	8.6	8.2	7.8	6.4	5.5	4.4
		050	37.9	30.0	26.4	21.5	18.6	16.7	14.4	11.8	10.2	8.2
		063	85.1	70.5	62.1	50.7	43.9	39.3	34.0	27.7	24.0	
		080	164	161	150	131	113	101	88	72	62	
24	90	040	7.19	5.14	4.23	3.45	2.97	2.64	2.25	1.72	1.34	0.65
		050	12.8	9.31	8.10	7.45	7.02	6.69	6.26	4.98	4.09	2.72
		063	25.3	17.8	15.5	14.3	13.4	12.8	11.9	10.7	9.1	
		080	80.0	48.3	39.8	32.4	27.9	24.8	21.2	16.4	12.9	
	120	040	7.19	5.77	4.75	3.87	3.35	2.98	2.56	2.03	1.67	1.10
		050	12.8	10.4	9.1	8.4	7.9	7.5	7.1	5.7	4.8	3.6
		063	25.3	20.2	17.6	16.2	15.3	14.6	13.7	12.4	11.0	
		080	108	73.3	60.4	49.3	42.6	38.0	32.7	26.2	22.0	

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive

Linear

Circular

Option

Option	Pick and Place drive		Parallel cam drive			Roller gear cam drive			Product specifications
	Linear	Circular				Basic	Wide angle	Table	
									Compact

● RGIS flange shaft (3 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				10	20	30	40	50	70	100	140	200
30	300	063	85.1	70.2	63.2	51.6	44.7	39.9	33.7	28.2	23.8	19.8
		080	164	160	152	133	115	103	87	73	61	51
	330	040	10.9	10.6	10.3	9.5	9.0	8.6	7.9	6.6	5.6	4.7
		050	37.9	30.0	27.5	22.4	19.4	17.4	14.7	12.3	10.4	8.6
		063	85.1	70.5	64.7	52.8	45.7	40.9	34.6	28.9	24.4	20.3
		080	164	161	156	136	118	106	89	75	63	52
36	90	040	7.19	5.36	4.41	3.60	3.10	2.76	2.30	1.86	1.44	0.94
		050	13.1	8.87	7.31	5.96	5.15	4.58	3.83	3.11	2.45	1.68
		063	16.4	12.3	10.7	9.9	9.3	8.8	8.1	6.6	5.1	3.4
		080	80.0	50.3	41.4	33.8	29.2	26.0	21.7	17.6	13.8	9.4
	120	040	10.2	8.21	6.76	5.52	4.77	4.26	3.59	2.96	2.43	1.88
		050	12.8	10.9	9.5	8.7	8.2	7.9	7.3	6.0	5.0	3.9
		063	25.3	21.1	18.3	16.9	15.9	15.2	14.2	13.1	11.3	8.9
		080	108	76.4	62.9	51.3	44.4	39.7	33.4	27.6	22.7	17.7
	150	040	10.2	8.85	7.29	5.95	5.15	4.60	3.88	3.22	2.67	2.14
		050	12.8	11.7	10.2	9.4	8.9	8.5	7.8	6.5	5.4	4.4
		063	63.6	48.9	40.3	32.9	28.5	25.5	21.5	17.9	14.9	12.1
		080	108	82.7	68.2	55.7	48.2	43.0	36.3	30.2	25.1	20.2
	180	040	10.2	9.30	7.69	6.28	5.44	4.86	4.10	3.41	2.85	2.32
		050	12.8	12.3	10.7	9.9	9.3	8.9	8.3	6.9	5.8	4.7
		063	63.6	51.6	42.7	34.8	30.2	27.0	22.8	19.0	15.9	13.1
		080	108	87.3	72.2	58.9	51.0	45.6	38.5	32.0	26.8	21.9
	210	040	10.2	9.40	8.02	6.55	5.67	5.07	4.28	3.56	2.99	2.45
		050	12.8	12.4	11.2	10.3	9.7	9.3	8.6	7.2	6.0	5.0
		063	63.6	52.2	44.6	36.4	31.5	28.2	23.8	19.9	16.7	13.8
		080	152	101	86	70	61	54	46	38	32	26
	240	040	10.2	9.47	8.29	6.77	5.86	5.24	4.43	3.69	3.10	2.56
		050	12.8	12.5	11.6	10.7	10.1	9.6	8.9	7.4	6.3	5.2
		063	63.6	52.7	46.2	37.7	32.6	29.2	24.6	20.6	17.3	14.4
		080	152	102	89	73	63	56	48	40	33	28
	270	040	10.2	9.51	8.53	6.97	6.03	5.39	4.55	3.80	3.20	2.65
		050	12.8	12.6	11.9	11.0	10.4	9.9	9.2	7.7	6.5	5.4
		063	63.6	53.0	47.5	38.8	33.6	30.0	25.4	21.2	17.9	14.8
		080	152	102	92	75	65	58	49	41	34	29
	300	040	10.2	9.55	8.74	7.14	6.18	5.53	4.67	3.90	3.28	2.72
		050	12.8	12.6	12.2	11.2	10.6	10.2	9.4	7.8	6.6	5.5
		063	63.6	53.2	48.7	39.8	34.5	30.8	26.0	21.8	18.4	15.3
		080	152	103	94	77	67	60	50	42	35	29
	330	040	10.2	9.57	8.94	7.30	6.32	5.65	4.77	3.99	3.36	2.79
		050	12.8	12.6	12.5	11.5	10.8	10.4	9.6	8.0	6.8	5.6
		063	63.6	53.4	49.8	40.7	35.2	31.5	26.6	22.3	18.8	15.6
		080	152	103	96	79	68	61	51	43	36	30
48	90	080	31.8	25.8	22.5	20.7	19.5	18.6	17.2	15.6	13.1	9.3
	120	080	31.8	28.5	24.8	22.9	21.6	20.6	19.2	17.6	15.2	11.8
	150	080	31.8	30.5	26.5	24.4	23.1	22.0	20.5	19.0	16.5	13.2
	180	080	80.0	66.3	56.5	46.1	39.9	35.7	30.1	25.1	21.0	17.1
	210	080	80.0	66.8	58.6	47.9	41.4	37.1	31.3	26.1	21.9	18.0
	240	080	80.0	67.1	60.5	49.4	42.8	38.2	32.3	27.0	22.7	18.7
	270	080	80.0	67.3	62.1	50.7	43.9	39.3	33.2	27.7	23.3	19.3
	300	080	80.0	67.5	63.6	51.9	45.0	40.2	34.0	28.4	23.9	19.9
	330	080	80.0	67.6	64.0	53.0	45.9	41.1	34.7	29.0	24.4	20.3

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pitch and Pressure drive

Linear

Circular

Option

Output torque table

Index series

● RGIS flange shaft (4 dwell)

Cam curve/MS

Product specifications			Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)									
							Input shaft rotational speed (rpm)									
							10	15	20	30	40	50	75	100	150	
Roller gear cam drive	Compact	32	180	040	10.9	9.16	8.44	7.97	7.34	6.93	6.62	5.41	4.66	3.72		
				050	50.1	36.1	31.5	27.3	22.3	19.3	17.2	14.0	12.1	9.8		
				063	85.1	60.8	53.0	45.9	37.5	32.5	29.0	23.6	20.3	16.3		
				080	164	138	128	118	97	84	75	61	52	42		
		210	180	040	30.6	22.0	19.2	16.7	13.6	11.8	10.5	8.6	7.4	6.0		
				050	50.1	38.2	33.3	28.9	23.6	20.4	18.2	14.9	12.8	10.4		
				063	85.1	64.3	56.1	48.6	39.7	34.4	30.7	25.0	21.6	17.4		
				080	242	192	167	145	118	102	92	75	64	52		
	Standard	240	180	040	30.6	23.0	20.1	17.4	14.2	12.3	11.0	9.0	7.8	6.3		
				050	50.1	39.9	34.8	30.2	24.6	21.3	19.1	15.5	13.4	10.9		
				063	85.1	67.2	58.7	50.8	41.5	35.9	32.1	26.2	22.6	18.3		
				080	262	244	223	193	157	136	122	99	86	70		
	Table	270	180	040	30.6	23.5	20.8	18.1	14.7	12.8	11.4	9.3	8.0	6.5		
				050	50.1	40.7	36.1	31.2	25.5	22.1	19.8	16.1	13.9	11.3		
				063	85.1	68.6	60.8	52.7	43.0	37.2	33.3	27.2	23.5	19.0		
				080	262	249	231	200	163	141	126	103	89	72		
	Wide angle	300	180	040	30.6	23.7	21.5	18.6	15.2	13.2	11.8	9.6	8.3	6.7		
				050	50.1	41.1	37.2	32.2	26.3	22.8	20.4	16.6	14.4	11.7		
				063	85.1	69.2	62.7	54.3	44.3	38.4	34.3	28.0	24.2	19.7		
				080	262	252	238	206	168	146	130	106	92	75		
Parallel cam drive	Basic	36	150	040	10.9	8.82	8.13	7.67	7.07	6.67	6.37	5.20	4.46	3.54		
				050	37.9	24.9	21.8	18.8	15.4	13.3	11.9	9.7	8.3	6.6		
				063	63.6	44.0	38.4	33.3	27.1	23.5	21.0	17.0	14.6	11.6		
				080	152	84.9	74.1	64.2	52.3	45.3	40.4	32.8	28.1	22.0		
		180	150	040	30.6	21.5	18.8	16.3	13.3	11.5	10.3	8.4	7.2	5.8		
				050	51.5	37.3	32.5	28.2	23.0	19.9	17.8	14.5	12.5	10.1		
				063	85.1	62.7	54.8	47.4	38.7	33.5	30.0	24.4	21.0	16.9		
				080	164	143	132	122	100	86	77	63	54	44		
	Option	210	150	040	30.6	22.6	19.8	17.1	14.0	12.1	10.8	8.8	7.6	6.2		
				050	51.5	39.2	34.2	29.6	24.2	21.0	18.7	15.3	13.2	10.7		
				063	85.1	66.1	57.7	50.0	40.8	35.3	31.6	25.7	22.2	17.9		
				080	164	151	139	129	105	91	81	66	57	46		
	Circular Pitch and Pitch time	240	150	040	30.6	23.5	20.6	17.8	14.6	12.6	11.3	9.2	7.9	6.4		
				050	51.5	40.7	35.7	30.9	25.2	21.8	19.5	15.9	13.8	11.2		
				063	85.1	68.6	60.1	52.1	42.5	36.8	32.9	26.8	23.2	18.8		
				080	164	156	145	134	110	95	85	69	60	48		
	Linear	270	150	040	30.6	23.7	21.3	18.4	15.1	13.0	11.7	9.5	8.2	6.7		
				050	51.5	41.1	36.9	31.9	26.1	22.6	20.2	16.5	14.2	11.6		
				063	85.1	69.3	62.2	53.8	44.0	38.1	34.0	27.8	24.0	19.5		
				080	164	158	150	139	113	98	88	72	62	50		
	Option	300	150	040	30.6	23.9	21.9	19.0	15.5	13.4	12.0	9.8	8.5	6.9		
				050	51.5	41.4	37.9	32.8	26.8	23.2	20.8	16.9	14.7	11.9		
				063	85.1	69.8	64.0	55.4	45.2	39.2	35.0	28.6	24.7	20.1		
				080	164	159	154	143	117	101	90	74	64	52		
	Option	330	150	040	30.6	24.1	22.5	19.5	15.9	13.8	12.3	10.0	8.7	7.1		
				050	51.5	41.6	38.8	33.6	27.5	23.8	21.3	17.4	15.0	12.2		
				063	85.1	70.2	65.5	56.8	46.3	40.1	35.9	29.3	25.3	20.6		
				080	164	160	158	146	120	104	93	76	65	53		

● RGIS flange shaft (4 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				10	15	20	30	40	50	75	100	150
40	150	040	10.9	9.10	8.39	7.92	7.30	6.88	6.58	5.37	4.62	3.67
		050	37.9	25.7	22.4	19.4	15.9	13.7	12.3	10.0	8.6	6.9
		063	63.6	45.4	39.6	34.3	28.0	24.2	21.6	17.6	15.1	12.0
		080	152	87.6	76.4	66.2	54.0	46.7	41.7	33.9	29.0	22.9
	180	040	10.9	9.70	8.95	8.44	7.78	7.35	7.02	5.74	4.95	3.97
		050	37.9	27.4	23.9	20.7	16.9	14.6	13.1	10.7	9.2	7.4
		063	85.1	64.4	56.2	48.7	39.7	34.4	30.7	25.0	21.6	17.4
		080	164	147	135	126	102	89	79	65	56	45
	210	040	10.9	10.2	9.4	8.9	8.2	7.7	7.4	6.0	5.2	4.2
		050	37.9	28.7	25.1	21.7	17.7	15.3	13.7	11.2	9.7	7.8
		063	85.1	67.6	59.0	51.1	41.7	36.1	32.3	26.3	22.7	18.4
		080	164	154	142	132	108	93	83	68	59	47
	240	040	10.9	10.4	9.8	9.2	8.5	8.0	7.7	6.3	5.4	4.4
		050	37.9	29.4	26.0	22.6	18.4	15.9	14.3	11.6	10.1	8.2
		063	85.1	69.2	61.3	53.1	43.3	37.5	33.6	27.4	23.6	19.2
		080	164	158	148	137	112	97	87	71	61	49
	270	040	10.9	10.5	10.1	9.5	8.8	8.3	7.9	6.5	5.6	4.5
		050	37.9	29.7	26.9	23.3	19.0	16.5	14.7	12.0	10.4	8.4
		063	85.1	69.8	63.3	54.8	44.7	38.7	34.6	28.3	24.4	19.8
		080	164	159	152	141	115	100	89	73	63	51
	300	040	10.9	10.6	10.4	9.8	9.0	8.5	8.1	6.7	5.8	4.7
		050	37.9	29.8	27.6	23.9	19.5	16.9	15.1	12.3	10.7	8.7
		063	85.1	70.2	65.0	56.3	46.0	39.8	35.6	29.0	25.1	20.4
		080	164	160	157	145	119	103	92	75	65	53
	330	040	10.9	10.6	10.6	10.0	9.2	8.7	8.3	6.8	5.9	4.8
		050	37.9	30.0	28.3	24.5	20.0	17.3	15.5	12.6	10.9	8.9
		063	85.1	70.5	66.6	57.6	47.1	40.8	36.4	29.7	25.7	20.9
		080	164	161	160	149	121	105	94	77	66	54
48	120	040	10.2	7.98	6.96	6.03	4.92	4.25	3.79	3.07	2.61	2.01
		050	12.8	10.6	9.7	9.2	8.5	8.0	7.6	6.2	5.3	4.2
		063	25.3	20.5	18.9	17.8	16.4	15.5	14.8	13.5	12.1	9.5
		080	80.0	55.4	48.3	41.8	34.1	29.5	26.3	21.2	18.0	13.7
	150	040	10.2	8.60	7.50	6.50	5.30	4.59	4.10	3.32	2.85	2.25
		050	12.8	11.4	10.5	9.9	9.1	8.6	8.2	6.7	5.8	4.6
		063	63.6	47.5	41.5	35.9	29.3	25.4	22.7	18.4	15.9	12.7
		080	108	80.4	70.2	60.8	49.6	42.9	38.3	31.1	26.7	21.1
	180	040	10.2	9.07	7.92	6.86	5.60	4.84	4.33	3.52	3.03	2.42
		050	12.8	12.0	11.1	10.4	9.6	9.1	8.7	7.1	6.1	4.9
		063	63.6	50.3	43.9	38.0	31.0	26.9	24.0	19.6	16.9	13.6
		080	108	85.1	74.3	64.3	52.5	45.5	40.6	33.0	28.5	22.8
	210	040	10.2	9.40	8.25	7.15	5.83	5.05	4.51	3.67	3.17	2.55
		050	12.8	12.4	11.5	10.9	10.0	9.5	9.0	7.4	6.4	5.2
		063	63.6	52.2	45.9	39.7	32.4	28.1	25.1	20.5	17.7	14.3
		080	152	101	89	77	63	54	48	39	34	27
	240	040	10.2	9.47	8.54	7.39	6.03	5.22	4.67	3.81	3.28	2.65
		050	12.8	12.5	11.9	11.2	10.4	9.8	9.4	7.7	6.6	5.4
		063	63.6	52.7	47.5	41.1	33.6	29.1	26.0	21.2	18.3	14.8
		080	152	102	92	79	65	56	50	41	35	29
	270	040	10.2	9.51	8.78	7.60	6.21	5.38	4.81	3.92	3.38	2.74
		050	12.8	12.6	12.2	11.6	10.7	10.1	9.6	7.9	6.8	5.5
		063	63.6	53.0	48.9	42.4	34.6	29.9	26.8	21.8	18.9	15.3
		080	152	102	94	82	67	58	52	42	36	30
	300	040	10.2	9.55	9.00	7.79	6.36	5.51	4.93	4.02	3.47	2.81
		050	12.8	12.6	12.6	11.8	10.9	10.3	9.9	8.1	7.0	5.7

Product specifications

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Pick and Place drive

Linear

Circular

Option

Output torque table

Index series

● RGIS flange shaft (4 dwell)

Cam curve/MS

Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				10	15	20	30	40	50	75	100	150
48	300	063	63.6	53.2	50.2	43.4	35.5	30.7	27.5	22.4	19.4	15.8
		080	152	103	97	84	68	59	53	43	37	30
	330	040	10.2	9.57	9.06	7.97	6.50	5.63	5.03	4.11	3.55	2.88
		050	12.8	12.6	12.6	12.1	11.2	10.5	10.1	8.3	7.1	5.8
		063	63.6	53.4	50.5	44.4	36.3	31.4	28.1	22.9	19.8	16.1
		080	152	103	98	86	70	61	54	44	38	31

Product specifications				Roller gear cam drive			
Compact				Parallel cam drive			
Standard				Circular			
Table				Linear			
Wide angle				Pick and Place drive			
Basic				Option			

Option	Pick and Place drive		Parallel cam drive			Roller gear cam drive			Product specifications
	Linear	Circular				Basic	Wide angle	Table	
									Compact

- RGOS straight shaft

Cam curve/MS

Product specifications

Option	Parallel cam drive		Roller gear cam drive		
	Pick and place drive		Basic	Wide angle	Table
	Linear				Standard
	Circular				Compact

Output torque table

Oscillating series

● RGOS flange shaft

Cam curve/MS

Product specifications		Cam curve/MS											
		Oscillating angle (deg)	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)							
						Input shaft rotational speed (rpm)							
						15	30	45	60	75	100	150	200
Roller gear cam drive	120	360	040	10.9	5.97	5.19	4.79	4.51	4.31	4.05	3.26	2.75	2.02
			050	19.9	11.1	9.6	8.9	8.4	8.0	7.5	6.9	6.1	
			063	85.1	39.7	32.7	26.7	23.1	20.6	17.8	14.3		
			080	164	90.2	78.5	68.7	59.4	53.1	45.8	37.0		
	90	300	040	10.2	5.95	4.90	3.99	3.45	3.08	2.64	2.10	1.73	1.18
			050	12.8	7.94	6.91	6.37	6.00	5.73	5.38	4.33	3.63	
			063	63.6	31.6	26.0	21.2	18.3	16.4	14.1	11.3	9.5	
			080	108	53.3	43.9	35.8	30.9	27.6	23.7	18.9		
		360	040	10.9	7.21	6.28	5.78	5.46	5.21	4.91	3.98	3.39	2.60
			050	19.9	13.3	11.6	10.7	10.1	9.7	9.1	8.3	7.5	5.8
			063	63.6	36.0	29.7	24.2	21.0	18.7	16.2	13.1	11.1	
			080	152	69.4	57.2	46.7	40.4	36.1	31.1	25.1	21.2	
	60	180	040	10.9	5.57	4.84	4.46	4.19	3.99	3.73	2.95	2.40	1.51
			050	37.9	15.9	13.1	10.7	9.2	8.2	7.0	5.6	4.6	
			063	85.1	37.0	30.5	24.9	21.5	19.2	16.5	13.1		
			080	164	84.2	73.3	64.0	55.3	49.3	42.4	33.7		
		240	040	41.6	22.0	18.1	14.8	12.8	11.4	9.9	8.0	6.8	5.3
			050	67.0	36.5	30.1	24.6	21.3	19.0	16.4	13.3	11.4	8.9
			063	119	52.5	43.3	35.3	30.6	27.3	23.6	19.0	16.2	
			080	262	167	144	117	101	91	78	63	54	
300		040	41.6	25.3	20.8	17.0	14.7	13.2	11.4	9.3	8.0	6.3	
		050	67.0	42.0	34.6	28.2	24.4	21.9	18.9	15.4	13.2	10.6	
		063	129	94.9	82.6	72.3	62.6	55.9	48.4	39.4	33.9		
		080	262	192	165	135	117	104	90	73	63		
360		040	41.6	27.9	23.0	18.8	16.2	14.5	12.6	10.2	8.8	7.1	
		050	67.0	46.2	38.1	31.1	26.9	24.1	20.8	17.0	14.6	11.8	
		063	129	105	91	80	69	62	53	43	38		
		080	431	258	213	173	150	134	116	95	82		
45	180	040	10.9	6.73	5.85	5.39	5.08	4.85	4.55	3.65	3.04	2.14	
		050	50.1	26.7	22.0	17.9	15.5	13.9	12.0	9.6	8.2	6.1	
		063	85.1	44.7	36.8	30.1	26.0	23.2	20.0	16.0	13.5		
		080	164	102	89	77	67	60	52	41	35		
	240	040	30.6	18.3	15.0	12.3	10.6	9.5	8.2	6.7	5.7	4.5	
		050	50.1	31.8	26.2	21.4	18.5	16.5	14.3	11.6	9.9	7.8	
		063	85.1	53.4	44.0	35.9	31.1	27.8	24.0	19.4	16.6		
		080	242	159	131	107	93	83	71	58	50		
	300	040	30.6	20.4	16.8	13.7	11.9	10.6	9.2	7.5	6.4	5.1	
		050	50.1	35.4	29.2	23.8	20.6	18.5	16.0	13.0	11.2	8.9	
		063	85.1	59.6	49.1	40.1	34.7	31.0	26.8	21.8	18.7		
		080	242	178	146	120	104	93	80	65	56		
360	040	30.6	22.0	18.2	14.8	12.8	11.5	9.9	8.1	7.0	5.6		
	050	50.1	38.2	31.5	25.7	22.3	19.9	17.2	14.0	12.1	9.8		
	063	85.1	64.4	53.0	43.3	37.5	33.5	29.0	23.6	20.3			
	080	242	192	158	129	112	100	87	70	61			
30	180	040	7.19	5.51	4.54	3.70	3.20	2.85	2.45	1.95	1.61	1.09	
		050	12.8	9.98	8.68	8.00	7.54	7.20	6.77	5.48	4.63	3.47	
		063	25.3	19.1	16.6	15.3	14.4	13.8	12.9	11.8	10.4		
		080	108	69.2	57.0	46.5	40.2	35.9	30.9	24.8	20.8		
	240	040	10.2	8.45	6.96	5.68	4.92	4.39	3.79	3.07	2.61	2.01	
		050	12.8	11.2	9.7	9.0	8.5	8.1	7.6	6.2	5.3	4.2	
		063	25.3	21.7	18.9	17.4	16.4	15.7	14.8	13.5	12.1		
		080	108	78.6	64.8	52.9	45.7	40.9	35.3	28.6	24.4		
	300	040	10.2	9.10	7.50	6.12	5.30	4.74	4.10	3.32	2.85	2.25	
		050	12.8	12.0	10.5	9.7	9.1	8.7	8.2	6.7	5.8	4.6	

● RGOS flange shaft

Cam curve/MS

Oscillating angle (deg)	Total index angle (deg)	Size	Static rated output torque (N·m)	Rated dynamic output torque (N·m)								
				Input shaft rotational speed (rpm)								
				15	30	45	60	75	100	150	200	300
30	300	063	25.3	23.5	20.4	18.8	17.8	17.0	16.0	14.7	13.2	
		080	108	85.2	70.2	57.3	49.6	44.3	38.3	31.1	26.7	
	360	040	10.2	9.30	7.92	6.46	5.60	5.00	4.33	3.52	3.03	2.42
		050	12.8	12.3	11.1	10.2	9.6	9.2	8.7	7.1	6.1	4.9
		063	25.3	24.1	21.6	20.0	18.8	18.0	17.0	15.6	14.1	
		080	108	87.3	74.3	60.7	52.5	46.9	40.6	33.0	28.5	

Product specifications

Option	Pick and place drive		Parallel cam drive		Roller gear cam drive			Compact
	Linear	Circular	Basic		Wide angle	Table	Standard	
			Table					