

Flat type

Index

RG I D

200 to 700

Reducer

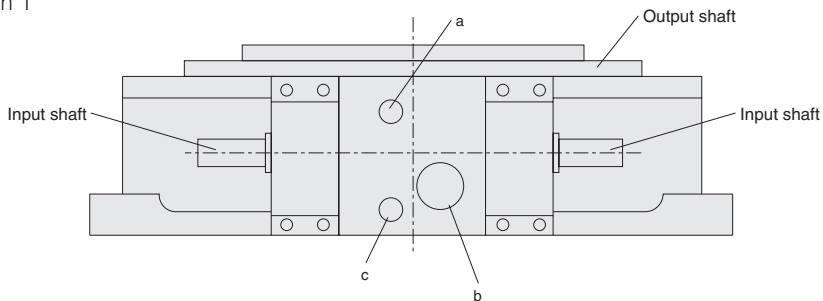
RGCD

● Common specifications

1. Installation specifications

(1) (Output shaft upward facing) is the standard.

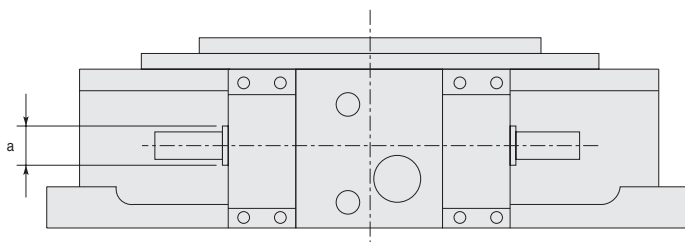
Position 1



a: Oil supply port b: Oil level gauge c: Drain port

2. Housing material/Fc

3. Diameter of input shaft stepped section



Dimension	a
Size	
200	ø25
250	ø28
300	ø32
350	ø42
450	ø55
600	ø70
700	ø90

Product specifications

Small

Standard

Wide angle

Roller gear cam unit

Table

Small multi-index

Flat

Torque table

Parallel cam unit

Standard

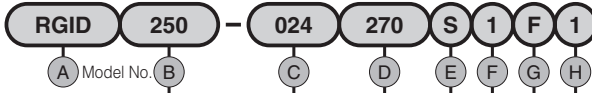
Torque table

Option

Discontinue



1. Standard model numbers Index series



B Shaft interval		C Index number (n)		D Total index angle (θ t)		E Cam curve		F Cam helix direction/dwell number		G Output shaft shape	H Installation position		
200	200mm	008	8	090	90°	S	MS curve	1	Left helix/1 dwell	F	Flange	1	Position 1
250	250mm	010	10	120	120°	C	MC curve	2	Left helix/2 dwell				
300	300mm	012	12	150	150°	T	MT curve	5	Right helix/1 dwell				
350	350mm	015	15	180	180°			6	Right helix/2 dwell				
450	450mm	016	16	210	210°								
600	600mm	018	18	240	240°								
700	700mm	020	20	270	270°								
		024	24	300	300°								
		030	30	330	330°								
		032	32										
		036	36										
		040	40										
		048	48										
		060	60										
		064	64										
		072	72										
		080	80										

Left helix (Standard) Right helix

Refer to B-7 for details on the timing chart.

Example of model number <1>

RGID350-048240T2F1

Shaft interval	350mm
Index number	48 indexes
Total index angle	240°
Cam curve	MT curve
Cam helix direction/dwell number	Left helix/2 dwell
Output shaft shape	Flange
Installation position	Position 1

Product specifications

Small Standard Wide angle Table Small/multi-index Flat Torque table

Foller gear cam unit

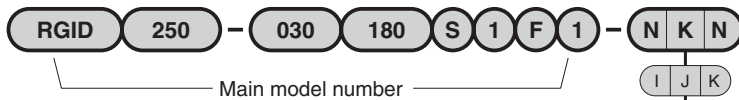
Standard Torque table

Parallel cam unit

Option

Flat type

2-1. Model numbers with options Index series



Product specifications

Roller gear cam unit

Parallel cam unit

Option

Input/output shaft specification codes	
I Input shaft specifications code [left shaft]	J Input shaft specifications code [right shaft]
<p style="text-align: center;">N</p>	<p style="text-align: center;">N</p>
<p style="text-align: center;">K</p>	<p style="text-align: center;">K</p>
<p style="text-align: center;">C</p>	<p style="text-align: center;">C</p>
<p style="text-align: center;">K Output shaft specifications code</p> <p style="text-align: center;">N</p> <p>The flat type output shaft option is not available.</p> <p style="text-align: center;">**N</p>	
<p>N Standard (with keyway)</p> <p>K No keyway</p> <p>C Cut</p> <p>* The shaft is cut at the stepped section, and protrudes from the housing. Check dimension drawings.</p>	

Discontinue



2-2. Examples of model numbers with options/3. Custom specification model numbers

Note that even one incorrect specification in symbols representing the model number when ordering will result in a product with incorrect specifications.
Refer to the following model number examples and carefully determine the model number to ensure that the required product is delivered.

Example of model number <2>

RGID200-048150S2F1-NKN

Input shaft specifications

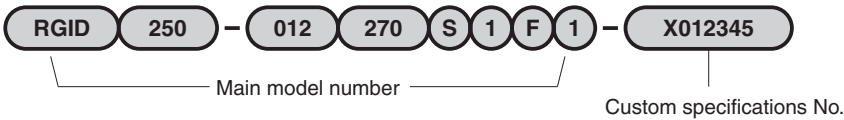
Left shaft: Standard

Right shaft: Without keyway

Output shaft specifications

Standard

● Custom specification model number Common for index and reducer series



* Indicate -X <six-digit number> as the custom specifications No after the main specifications number.
This custom specification model number is determined after discussing specifications with the user.
Report specifications for customization other than standard options.

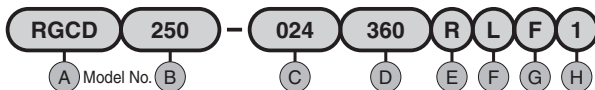
* High-speed specifications (input shaft rotation speed 200rpm or more) are customized.

Product specifications

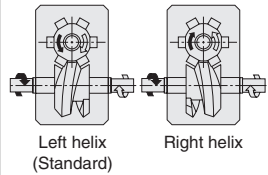
Small	Standard	Wide angle	Table	Small multi-index	Flat	Torque table	Standard	Torque table	Option
Roller gear cam unit									
					Parallel cam unit				

Flat type

1. Standard model numbers Reducer series



Product specifications																						
Roller gear cam unit	B	Shaft interval		C	Reduction ratio (i/d)		D	Total index angle (θ/t)		E	Cam curve		F	Cam helix direction		G	Output shaft shape		H	Installation position		
Small	200	200mm		008	1/8		360	360°		R	Uniform velocity rotation curve		L	Left helix		F	Flange		1	Position 1		
Standard	250	250mm		010	1/10									R	Right helix							
Wide angle	300	300mm		012	1/12																	
Table	350	350mm		015	1/15																	
Small multi-index	450	450mm		016	1/16																	
Flat	600	600mm		018	1/18																	
Torque table	700	700mm		020	1/20																	
Parallel cam unit				024	1/24																	
Option				030	1/30																	
				032	1/32																	
				036	1/36																	
				040	1/40																	



Refer to B-7 for details on the timing chart.



Example of model number <1>

RGCD600-020360RLF1

Shaft interval	600mm
Reduction ratio	1/20
Total index angle	360°
Cam curve	Uniform velocity rotation curve
Cam helix direction	Left helix
Output shaft shape	Flange
Installation position	Position 1

Product specifications

Foller gear cam unit	Small	Standard	Wide angle	Table	Small/multi-index	Flat	Torque table
Parallel cam unit	Standard	Torque table					
Option							

Discontinue



Characteristics

Descriptions	Unit	Characteristics	
		Output shaft	Input shaft
Allowable thrust force	N	34000	4400
Allowable radial force	N	18000	2500
Allowable bending moment	N·m	4500	—
Moment of inertia	kg·m ²	3.55	2.89 X 10 ⁻²

Descriptions	Unit	Characteristics
Internal friction torque (T _{fr})	N·m	35
Body weight	kg	260
Oil level	ℓ	3.3
Paint color		Brown
Munsell value		10YR4.5/2

Accuracy

Accuracy (sec.)		
Dwell accuracy	1 dwell	±20
	2 dwells	±40
Repeatability		15

*Contact CKD for details on dwell accuracy.

List of index angles

Index series **RGID 300** Cam curve/MS

Total index angle (θ _t) Index number (n)	90	120	150	180	210	240	270	300	330
1 dwell	8							○	○
	10					○	○	○	○
	12					○	○	○	○
	15				○	○	○	○	○
	16			○	○	○	○	○	○
	18			○	○	○	○	○	○
	20		○	○	○	○	○	○	○
	24		○	○	○	○	○	○	○
	30	○	○	○	○	○	○	○	○
	32	○	○	○	○	○	○	○	○
2 dwells	36	○	○	○	○	○	○	○	○
	40	○	○	○	○	○	○	○	○
	48			○	○	○	○	○	○
	60			○	○	○	○	○	○
	64		○	○	○	○	○	○	○
	72		○	○	○	○	○	○	○
	80		○	○	○	○	○	○	○

Reducer series **RGCD 300**

Total index angle (θ _t) Reduction ratio (i _d)	360
1/8	○
1/10	○
1/12	○
1/15	○
1/16	○
1/18	○
1/20	○
1/24	○
1/30	○
1/32	○
1/36	○
1/40	○

Product specifications

Small	Foller gear cam unit
Standard	
Wide angle	
Table	
Small multi-index	
Flat	Torque table
Torque table	
Standard	Torque table
Parallel cam unit	
Option	

Discontinue



Characteristics

Descriptions	Unit	Characteristics	
		Output shaft	Input shaft
Allowable thrust force	N	44000	5500
Allowable radial force	N	29000	3500
Allowable bending moment	N·m	6000	—
Moment of inertia	kg·m ²	7.15	7.05 X 10 ⁻²

Descriptions	Unit	Characteristics
Internal friction torque (T _{fr})	N·m	45
Body weight	kg	340
Oil level	ℓ	6
Paint color		Brown
Munsell value		10YR4.5/2

Accuracy

Accuracy (sec.)		
Dwell	1 dwell	±20
	2 dwells	±40
Repeatability		15

*Contact CKD for details on dwell accuracy.

List of index angles

Index series **RGID 350** Cam curve/MS

Total index angle (θ _t) Index number (n)	90	120	150	180	210	240	270	300	330
1 dwell	8							○	○
	10					○	○	○	○
	12				○	○	○	○	○
	15			○	○	○	○	○	○
	16			○	○	○	○	○	○
	18		○	○	○	○	○	○	○
	20		○	○	○	○	○	○	○
	24		○	○	○	○	○	○	○
	30	○	○	○	○	○	○	○	○
	32	○	○	○	○	○	○	○	○
2 dwells	36	○	○	○	○	○	○	○	○
	40	○	○	○	○	○	○	○	○
	48			○	○	○	○	○	○
	60			○	○	○	○	○	○
	64		○	○	○	○	○	○	○
	72		○	○	○	○	○	○	○
	80		○	○	○	○	○	○	○

Reducer series **RGCD 350**

Total index angle (θ _t) Reduction ratio (i _d)	360
1/8	○
1/10	○
1/12	○
1/15	○
1/16	○
1/18	○
1/20	○
1/24	○
1/30	○
1/32	○
1/36	○
1/40	○

Product specifications

Small
Standard
Wide angle
Foller gear cam unit
Table
Small multi-index
Flat
Torque table
Standard
Parallel cam unit
Torque table
Option

Shaft interval **450** mm Flange shaft

Discontinue

Index

RG I D 450

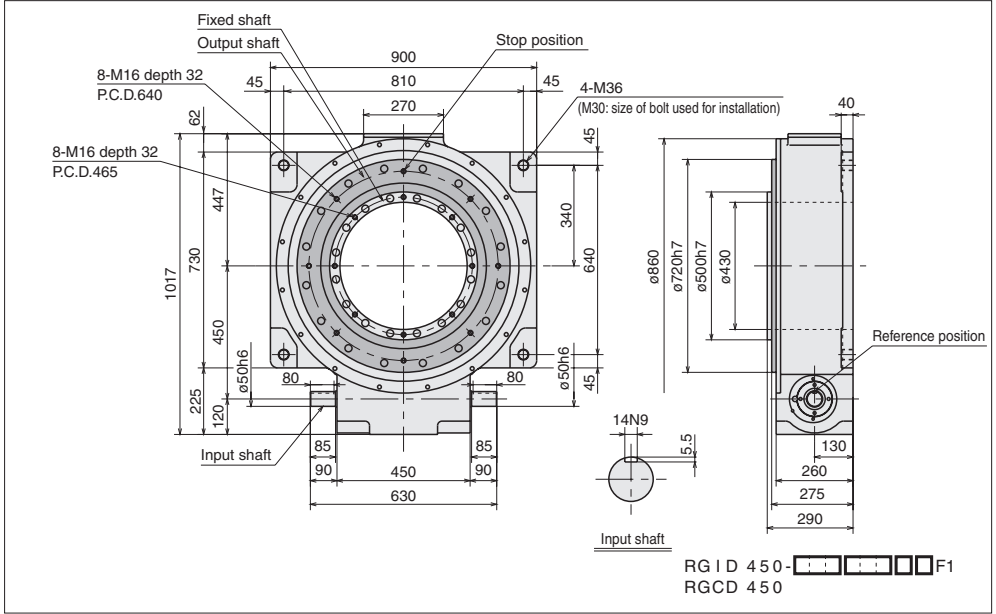
Reducer

RGCD 450

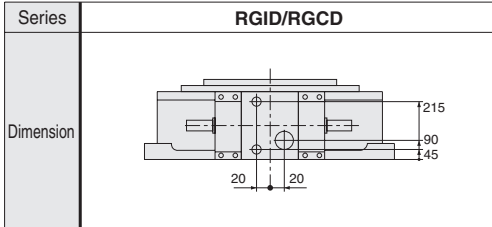
Flat type

● Standard specifications

Dimensions



Oil supply/drain port and oil level gauge positions



- Oil supply/drain port (Rc1)
- Oil level gauge (ø40)

Product specifications

Small

Standard

Wide angle

Table

Roller gear cam unit

Small multi-index

Flat

Torque table

Parallel cam unit

Torque table

Option

Discontinue



Characteristics

Descriptions	Unit	Characteristics	
		Output shaft	Input shaft
Allowable thrust force	N	65000	8000
Allowable radial force	N	45000	6000
Allowable bending moment	N·m	10000	—
Moment of inertia	kg·m ²	29.7	0.21

Descriptions	Unit	Characteristics
Internal friction torque (T _{fr})	N·m	80
Body weight	kg	890
Oil level	ℓ	19
Paint color		Brown
Munsell value		10YR4.5/2

Accuracy

Accuracy (sec.)		
Repeatability	1 dwell	±20
	2 dwells	±40
Repeatability		15

* Contact CKD for details on dwell accuracy.

List of index angles

Index series **RGID 450** Cam curve/MS

Total index angle (θ _t) Index number (n)	90	120	150	180	210	240	270	300	330
1 dwell	8							○	○
	10					○	○	○	○
	12				○	○	○	○	○
	15			○	○	○	○	○	○
	16			○	○	○	○	○	○
	18		○	○	○	○	○	○	○
	20		○	○	○	○	○	○	○
	24		○	○	○	○	○	○	○
	30	○	○	○	○	○	○	○	○
	32	○	○	○	○	○	○	○	○
36	○	○	○	○	○	○	○	○	
40	○	○	○	○	○	○	○	○	
2 dwells	48		○	○	○	○	○	○	○
	60		○	○	○	○	○	○	○
	64		○	○	○	○	○	○	○
	72		○	○	○	○	○	○	○
	80		○	○	○	○	○	○	○

Reducer series **RGCD 450**

Total index angle (θ _t) Reduction ratio (i _d)	360
1/8	○
1/10	○
1/12	○
1/15	○
1/16	○
1/18	○
1/20	○
1/24	○
1/30	○
1/32	○
1/36	○
1/40	○

Product specifications

Small
Standard
Wide angle
Foller gear cam unit
Table
Small multi-index
Flat
Torque table
Standard
Parallel cam unit
Torque table
Option

Shaft interval **700** mm

Flange shaft

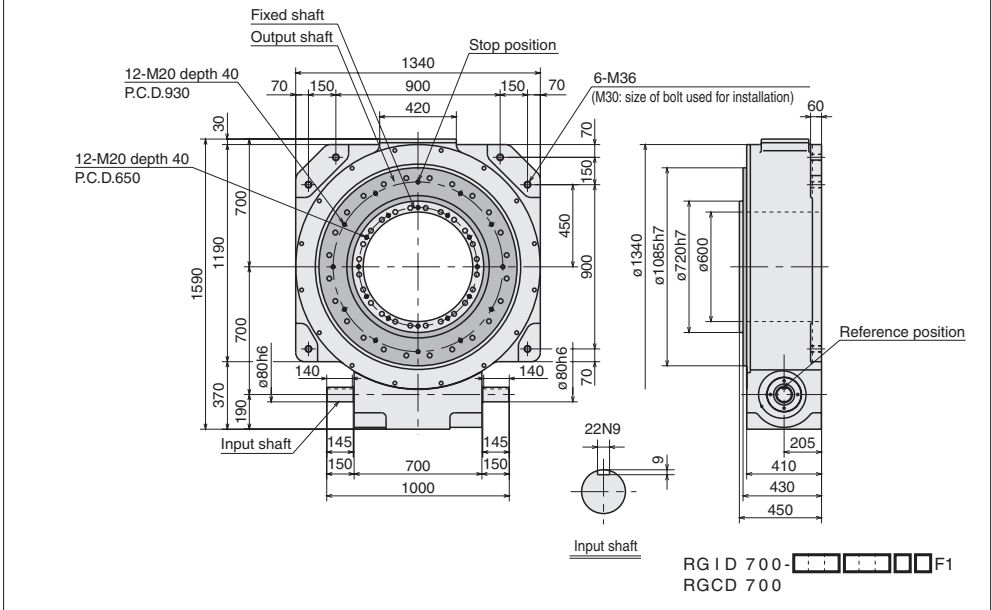
Discontinue

Index	RG I D 700
Reducer	RGCD 700

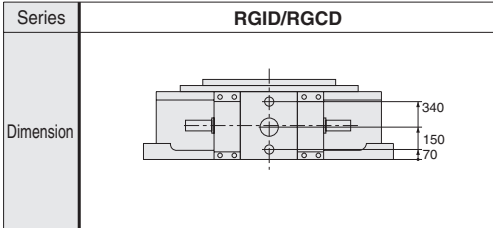
Flat type

● Standard specifications

Dimensions



Oil supply/drain port and oil level gauge positions



- Oil supply/drain port (Rc1)
- Oil level gauge (ø40)

Product specifications
 Small
 Standard
 Wide angle
 Roller gear cam unit
 Table
 Small multi-index
 Flat
 Torque table
 Parallel cam unit
 Torque table
 Option

Discontinue



Characteristics

Descriptions	Unit	Characteristics	
		Output shaft	Input shaft
Allowable thrust force	N	120000	15000
Allowable radial force	N	100000	13000
Allowable bending moment	N·m	30000	—
Moment of inertia	kg·m ²	258	1.99

Descriptions	Unit	Characteristics
Internal friction torque (T _{fr})	N·m	230
Body weight	kg	2800
Oil level	ℓ	80
Paint color		Brown
Munsell value		10YR4.5/2

Accuracy

Indexing accuracy (sec.)		
Indexing accuracy	1 dwell	±20
	2 dwells	±40
Repeatability		15

*Contact CKD for details on dwell accuracy.

List of index angles

Index series **RGID 700** Cam curve/MS

Total index angle (θ _t) Index number (n)	90	120	150	180	210	240	270	300	330
1 dwell	8							○	○
	10					○	○	○	○
	12				○	○	○	○	○
	15			○	○	○	○	○	○
	16			○	○	○	○	○	○
	18		○	○	○	○	○	○	○
	20		○	○	○	○	○	○	○
	24		○	○	○	○	○	○	○
	30	○	○	○	○	○	○	○	○
	32	○	○	○	○	○	○	○	○
2 dwells	36	○	○	○	○	○	○	○	○
	40	○	○	○	○	○	○	○	○
	48			○	○	○	○	○	○
	60			○	○	○	○	○	○
	64		○	○	○	○	○	○	○
	72		○	○	○	○	○	○	○
	80		○	○	○	○	○	○	○

Reducer series **RGCD 700**

Total index angle (θ _t) Reduction ratio (i _d)	360
1/8	○
1/10	○
1/12	○
1/15	○
1/16	○
1/18	○
1/20	○
1/24	○
1/30	○
1/32	○
1/36	○
1/40	○

Product specifications

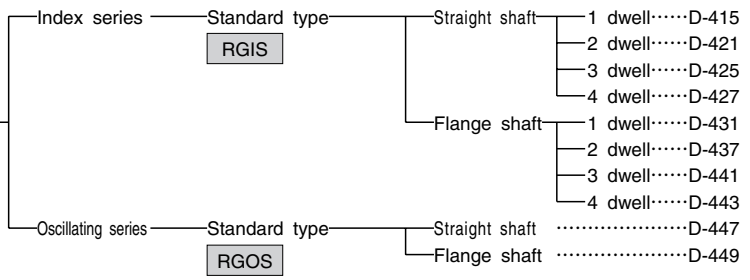
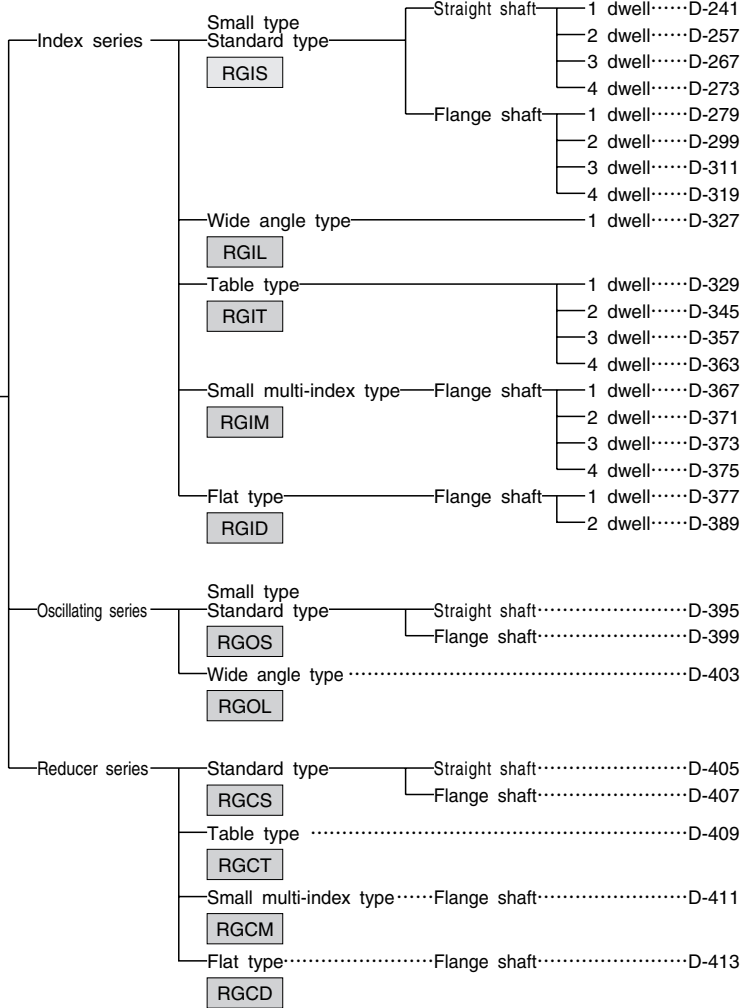
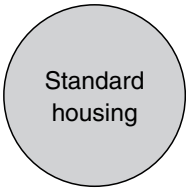
Small	Standard	Wide angle	Table	Small multi-index	Flat	Torque table	Standard	Torque table	Option
				Foller gear cam unit			Parallel cam unit		

Output torque table

● Reading the torque table

Page

Product specifications	
Small	Roller gear cam unit
Standard	
Wide angle	
Table	
Small multi-index	
Flat	Parallel cam unit
torque table	
Standard	
torque table	Option
Standard	

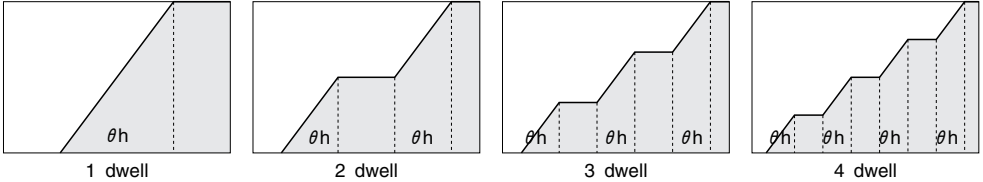


Discontinue

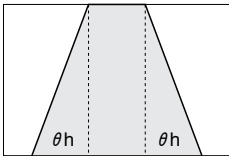
Precautions

1. The output torque table data is summarized as shown on the left.
2. The index angle indicates the total index angle which is the total within one input shaft rotation.
3. The data is based on a reference life time of 10,000 hours.

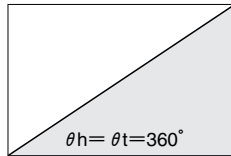
Index series



Oscillating series



Reducer series



$$\theta_t = \theta_h \times z$$

θ_t : Total index angle

θ_h : Index angle

z : Number of dwell

Reading 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	
		300	16500	8020	7580	6500	5780	5270	4640	3770		
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	
		032	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	4.67	4.18	3.72	3.14	2.75	2.20
		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	16.9	13.9	10.0
		080	152	68.1	61.2	52.2	46.0	42.0	38.0	31.0	25.0	18.1
		140	331	193	173	147	130	120	106	89	77	59

- Static rated output torque (N·m)
- Size : Indicates shaft to shaft distance C
- Total index angle $\theta_t (^{\circ})$
- Index number n
- Input shaft rotational speed N (rpm)
- Dynamic rated output torque T_r (N·m)

Product specifications

Small
Standard
Wide angle
Roller gear cam unit
Table
Small multi-index
Flat
torque table
Standard
Parallel cam unit
torque table
Option

Output torque table

Index series

●RGID flange shaft (1 dwell)

Cam curve/MS

Product specifications	Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Dynamic rated output torque (N·m)								
					Input shaft rotational speed (rpm)								
					20	40	60	80	100	120	150	200	250
Roller gear cam unit	8	300	200	597	257	256	241	219	201	183	161	128	98
			250	1190	663	660	621	562	515	468	408	321	236
			300	2540	1170	1170	1090	990	900	810	690	510	320
			350	3710	1780	1770	1660	1490	1340	1200	1000	690	360
			450	6560	2900	2850	2630	2300	2000	1680	1210		
			600	12600	5730	5540	4920	4020	3110	2100			
			700	37000	10880	10450	9150	7290	5360	3180			
	330	200	646	427	427	425	416	387	359	323	276	236	
		250	1290	854	851	838	763	706	652	580	481	393	
		300	2540	1240	1240	1160	1050	970	880	770	590	430	
		350	3710	1890	1880	1760	1590	1450	1310	1120	830	540	
		450	8930	3790	3750	3490	3110	2790	2460	1980	1180		
		600	17800	8510	8350	7630	6590	5630	4600	2980			
		700	37000	11530	11180	9970	8240	6520					
Parallel cam unit	10	240	200	425	225	224	210	190	171	155	133	100	66
			250	806	506	503	497	481	432	388	330	240	148
			300	1430	792	784	728	647	569	496	392	217	
			350	1800	1120	1110	1070	940	810	690	520		
			450	4660	2320	2260	2050	1740	1430	1110	600		
			600	11900	4710	4470	3820	2900	1860				
			700	14700	6590	6060	4830	3070					
	270	200	597	275	275	258	235	216	197	173	140	108	
		250	806	542	539	535	520	476	432	375	292	211	
		300	1540	1030	1030	1000	900	820	740	630	450	280	
		350	2970	1460	1450	1350	1210	1090	960	780	500		
		450	4660	2490	2440	2240	1950	1670	1380	940			
		600	12600	6140	5950	5310	4380	3460	2420				
		700	14700	7100	6690	5610							
300	200	597	291	290	274	249	231	213	189	157	128		
	250	806	573	570	567	552	509	469	413	334	260		
	300	1540	1090	1090	1070	960	880	810	700	540	380		
	350	2970	1550	1540	1440	1290	1180	1060	900	630			
	450	4660	2630	2600	2400	2110	1860	1600	1210				
	600	12600	6510	6350	5750	4880	4060	3160	1720				
	700	20800	10580	10240	9100	7470	5850	4050					
330	200	597	305	304	287	262	243	227	203	171	144		
	250	1190	784	783	738	672	623	581	519	434	360		
	300	1540	1140	1140	1120	1020	940	870	760	610	460		
	350	2970	1620	1610	1510	1370	1250	1150	990	750	510		
	450	6560	3430	3400	3170	2840	2560	2300	1890	1220			
	600	12600	6820	6690	6120	5290	4520	3760	2470				
	700	20800	11090	10810	9740	8210	6740	5210	2600				
Option	12	210	200	597	265	264	247	224	201	182	157	120	83
			250	1290	831	827	812	735	663	602	523	406	293
			300	2540	1210	1200	1120	1000	890	790	660	440	
			350	3710	1840	1820	1690	1510	1330	1160	930	550	
			450	8930	3680	3620	3330	2900	2470	2050	1420		
			600	17800	8250	7990	7110	5840	4470	3050			
			700	37000	11150	10570	9000	6750					
	240	200	646	448	447	445	436	402	370	331	280	235	
		250	1290	894	891	877	797	732	670	592	482	381	
		300	2540	1300	1300	1210	1100	1000	900	770	580	380	
		350	4540	2500	2490	2330	2110	1910	1730	1480	1100	720	
		450	8930	3970	3920	3640	3220	2840	2460	1900			
		600	17800	8910	8710	7890	6720	5580	4340	2420			

Discontinue

Index series

●RGID flange shaft (1 dwell)

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)										
				20	40	60	80	100	120	150	200	250		
12	240	700	37000	12100	11600	10200	8200	6200						
		200	646	475	474	472	463	430	399	360	309	266		
		250	1290	947	945	931	848	786	726	648	542	449		
		300	3180	1800	1800	1690	1540	1420	1300	1150	940	740		
		350	4540	2650	2640	2480	2250	2070	1890	1650	1300	970		
		450	8930	4210	4170	3890	3470	3130	2780	2270	1440			
		600	17800	9450	9290	8520	7410	6400	5320	3650				
	700	37000	12800	12500	11200	9400	7600	5600						
	300	200	950	650	650	614	562	523	492	446	388	342		
		250	2120	1210	1200	1140	1040	970	900	810	700	600		
		300	3180	1890	1880	1770	1620	1500	1400	1240	1040	860		
		350	4540	2780	2770	2610	2370	2190	2030	1800	1470	1160		
		450	9470	5340	5310	4970	4490	4100	3750	3210	2390	1560		
		600	17800	9910	9780	9040	7960	7010	6100	4590				
		700	37000	13400	13200	12000	10200	8600	7000					
	330	200	950	675	674	637	583	544	513	469	410	365		
		250	2120	1250	1250	1180	1080	1000	940	860	740	650		
		300	3180	1960	1950	1840	1680	1560	1460	1320	1120	950		
		350	6390	3590	3590	3380	3090	2860	2680	2420	2040	1720		
		450	9470	5540	5510	5180	4690	4300	3970	3480	2710	1970		
		600	31700	12000	11900	11100	9900	8900	8000	6500	4000			
700		48300	22900	22700	21000	18700	16700	14800	11800	6500				
15	180	200	597	275	274	257	232	208	188	161	121	82		
		250	806	541	537	531	512	456	408	343	241	136		
		300	1540	1032	1023	995	887	779	685	553	334			
		350	2970	1460	1440	1330	1170	1010	860	650				
		450	4660	2480	2420	2180	1830	1460	1100					
		600	12600	6110	5830	5030	3880	2580	1210					
		700	14700	7030	6410									
	210	200	597	298	297	280	254	232	212	186	150	116		
		250	806	586	583	578	562	512	464	403	312	223		
		300	1540	1120	1110	1090	980	880	790	670	480	290		
		350	2970	1580	1570	1460	1310	1170	1030	840	520			
		450	4660	2690	2640	2420	2100	1790	1480	990				
		600	12600	6640	6440	5730	4720	3680	2550					
		700	20800	10790	10330	8970	7040	4960	2660					
240	240	200	597	316	315	297	271	251	231	206	171	140		
		250	1190	814	812	764	695	643	592	525	432	348		
		300	1540	1190	1180	1160	1050	960	880	760	590	430		
		350	3710	2200	2190	2050	1850	1700	1540	1330	1020	700		
		450	6560	3560	3530	3280	2910	2600	2290	1820	1030			
		600	12600	7070	6910	6270	5340	4460	3510	1980				
		700	20800	11490	11140	9930	8190	6470	4570					
	270	200	597	331	330	312	284	264	247	222	188	159		
		250	1190	851	849	801	730	677	633	566	477	398		
		300	2540	1510	1510	1420	1290	1190	1110	980	810	650		
		350	3710	2300	2290	2150	1950	1800	1670	1460	1170	890		
		450	6560	3730	3700	3450	3090	2800	2530	2100	1410			
		600	12600	7400	7280	6670	5800	5000	4210	2890				
		700	20800	12000	11800	10700	9000	7500	6000	3300				
300	200	646	538	537	536	526	491	462	423	370	328			
	250	1290	1070	1070	1060	970	900	840	770	660	580			
	300	2540	1560	1560	1470	1340	1240	1160	1050	880	730			
	350	3710	2380	2370	2240	2030	1880	1750	1570	1290	1030			
	450	6560	3860	3840	3590	3240	2950	2700	2320	1690	1060			

Product specifications

Small

Standard

Wide angle

Table

Roller gear cam unit

Small multi-index

Flat

Torque table

Standard

Parallel cam unit

Torque table

Option

Output torque table

Index series

●RGID flange shaft (1 dwell)

Cam curve/MS

Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Dynamic rated output torque (N·m)								
						Input shaft rotational speed (rpm)								
						20	40	60	80	100	120	150	200	250
Roller gear cam unit	Small	15	300	600	17800	10740	10630	9890	8800	7880	7040	5710	3380	
				700	37000	14600	14300	13200	11500	10000	8500	6100		
			330	200	646	553	552	552	541	505	476	441	387	346
				250	1290	1100	1100	1090	990	930	870	800	700	610
				300	2540	1610	1610	1510	1380	1280	1200	1100	930	790
				350	4540	3090	3090	2910	2660	2470	2310	2110	1790	1520
				450	8930	4900	4880	4590	4160	3830	3540	3160	2500	1880
	600	17800	11000	11000	10200	9200	8300	7500	6300	4200	2000			
	700	37000	15000	14800	13700	12100	10700	9300	7200					
	Standard	150	200	425	225	223	208	183	162	143	117	73	28	
			250	745	321	316	290	248	210	173	118			
			300	1430	790	777	713	611	515	425	289			
			350	1800	1120	1090	1040	870	720	560	320			
			450	3810	1820	1730	1490	1130	750					
600			11900	4660	4280	3400	2080							
700			14700	6480	5640	3880								
Wide angle	180	200	425	250	249	233	210	189	170	146	109	73		
		250	806	560	557	550	532	476	428	363	213	161		
		300	1430	877	868	806	717	627	546	431	236			
		350	2970	1510	1500	1390	1230	1070	920	710	350			
		450	4660	2570	2510	2270	1930	1570	1210					
		600	11900	5220	4950	4230	3200	2040						
		700	14700	7300	6710	5340	3390							
Table	210	200	597	307	306	288	262	241	220	194	158	124		
		250	806	603	601	596	580	531	483	421	331	245		
		300	1540	1150	1150	1120	1010	920	830	710	520	330		
		350	2970	1630	1620	1510	1350	1220	1080	890	580			
		450	4660	2770	2730	2510	2190	1890	1580	1110				
		600	12600	6850	6660	5960	4970	3970	2870	1120				
		700	20800	11130	10690	9370	7470	5490	3270					
Small multi-index	16	240	200	597	324	324	305	278	258	239	213	178	148	
			250	1190	835	832	784	714	661	611	544	451	368	
			300	1540	1220	1210	1190	1080	990	910	790	620	460	
			350	2970	1730	1720	1610	1450	1320	1200	1020	750	480	
			450	4660	2930	2900	2680	2380	2110	1840	1430			
			600	12600	7250	7100	6470	5550	4690	3780	2300			
			700	20800	11800	11500	10300	8600	6900	5100				
Flat	270	200	597	338	338	319	291	270	253	228	194	166		
		250	1190	870	868	819	747	693	649	583	493	416		
		300	1540	1270	1260	1240	1130	1040	970	860	700	560		
		350	3710	2350	2340	2200	2000	1840	1710	1510	1220	950		
		450	6560	3810	3780	3530	3170	2880	2620	2200	1520			
		600	12600	7570	7450	6850	5980	5200	4440	3160				
		700	20800	12300	12100	11000	9400	7900	6400	3800				
Torque table	300	200	597	349	349	329	301	280	263	240	207	180		
		250	1190	897	896	846	773	718	674	615	527	454		
		300	2540	1590	1590	1500	1370	1270	1190	1070	910	760		
		350	3710	2430	2420	2280	2070	1920	1790	1610	1330	1090		
		450	6560	3930	3910	3670	3310	3020	2770	2400	1790	1180		
		600	12600	7820	7730	7150	6310	5580	4900	3810	1820			
		700	20800	12700	12500	11500	10000	8600	7300	5100				
Option	330	200	597	358	357	338	309	288	271	250	217	191		
		250	1290	1120	1120	1100	1010	940	890	820	710	630		
		300	2540	1630	1630	1540	1410	1310	1220	1120	960	820		
		350	3710	2490	2480	2340	2130	1980	1850	1690	1420	1190		

Discontinue

Index series

●RGID flange shaft (1 dwell)

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)								
				20	40	60	80	100	120	150	200	250
16	330	450	6560	4030	4010	3770	3410	3130	2890	2570	2000	1450
		600	17800	11200	11100	10400	9300	8500	7700	6600	4500	2400
		700	37000	15300	15100	14000	12300	10900	9600	7700		
18	150	200	318	181	180	167	148	130	114	92	40	15
		250	745	344	339	313	272	234	198	145	52	
		300	969	646	634	615	572	485	403	280	61	
		350	1800	1200	1180	1130	970	810	660	430		
		450	3050	1490	1410	1210	900	570				
		600	8750	4040	3700	2920	1780					
		700	13900	5730	4990	3420						
	180	200	425	265	264	248	224	203	184	160	114	89
		250	745	378	374	349	312	276	244	198	123	
		300	1430	930	922	859	767	681	600	488	303	
		350	1800	1320	1300	1260	1120	980	850	660	330	
		450	3810	2150	2100	1890	1600	1300	990			
		600	8750	4470	4240	3610	2710	1710				
		700	14700	7760	7240	5950	4120	2030				
	210	200	425	283	282	265	241	223	204	180	147	117
		250	806	633	631	627	611	563	514	453	364	281
		300	1430	993	987	924	833	759	683	580	421	
		350	1800	1410	1400	1360	1220	1100	980	810	540	
		450	3810	2300	2260	2070	1800	1560	1290	880		
		600	11900	5940	5770	5160	4290	3430	2470	930		
		700	14700	8340	7960	6870	5320	3690				
	240	200	597	338	337	318	290	269	251	225	191	161
		250	806	664	662	659	644	596	554	493	410	336
		300	1540	1270	1260	1240	1130	1040	960	850	680	530
350		2970	1800	1790	1680	1520	1390	1280	1100	840	580	
450		4660	3050	3020	2810	2500	2240	1990	1590	930		
600		12600	7570	7430	6810	5900	5070	4230	2850			
700		14700	8780	8490	7530	6150						
270	200	597	350	350	330	302	280	263	239	205	177	
	250	806	688	686	684	669	621	581	525	445	376	
	300	1540	1310	1310	1290	1170	1090	1010	910	750	610	
	350	2970	1860	1860	1750	1580	1460	1350	1200	950	730	
	450	4660	3160	3140	2930	2630	2380	2160	1810	1230		
	600	12600	7850	7740	7150	6280	5530	4800	3620	1490		
	700	20800	12800	12500	11500	9900	8500	7100	4700			
300	200	597	360	359	339	310	289	272	250	217	190	
	250	1190	925	923	872	797	741	697	640	552	480	
	300	1540	1350	1350	1330	1210	1120	1050	960	810	680	
	350	2970	1920	1910	1800	1640	1510	1410	1270	1040	840	
	450	4660	3250	3230	3030	2730	2490	2280	1980	1450	920	
	600	12600	8070	7980	7410	6580	5870	5200	4200	2350		
	700	20800	13100	12900	11900	10400	9100	7900	5900			
330	200	597	367	367	347	317	296	278	258	226	200	
	250	1190	944	943	891	815	759	714	660	577	507	
	300	1540	1380	1380	1360	1240	1150	1080	990	850	730	
	350	2970	1960	1950	1840	1680	1550	1450	1320	1110	920	
	450	6560	4140	4120	3880	3510	3230	3000	2680	2150	1630	
	600	12600	8240	8170	7610	6800	6130	5510	4620	2990		
	700	20800	13400	13300	12300	10900	9600	8500	6700	3500		
20	120	200	126	78	76	72	65	57	47	30		
		250	531	281	274	248	205	165	126	65		
		300	895	381	365	318	242	167				

Product specifications

Small

Standard

Wide angle

Roller gear cam unit

Table

Small multi-index

Flat

Torque table

Standard

Parallel cam unit

Torque table

Option

Output torque table

Index series

●RGID flange shaft (1 dwell)

Cam curve/MS

Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Dynamic rated output torque (N·m)								
						Input shaft rotational speed (rpm)								
						20	40	60	80	100	120	150	200	250
Roller gear cam unit	Small	20	120	350	1130	696	665	614	514	366				
				450	1850	1128	1023	836						
				600	6220	2950	2480	1530						
				700	10200	4170	3130							
				250	318	192	190	177	158	140	124	102	67	29
				250	745	364	359	333	293	254	219	168	80	
	Standard	150	300	969	683	673	655	617	530	450	332	125		
			350	1660	1040	1020	932	800	665	536	338			
			450	3050	1580	1510	1310	1020	710					
			600	6220	3420	3120	2430	1440						
			700	13900	6090	5420	3970	1880						
			200	318	208	207	194	176	159	144	124	94	64	
Wide angle	180	250	745	395	392	366	329	295	262	217	146	70		
		300	969	743	736	724	695	620	547	446	280	102		
		350	1800	1380	1370	1330	1180	980	880	740	430			
		450	3050	1720	1670	1500	1260	1010						
		600	8750	4690	4480	3880	3010	2080						
		700	13900	6710	6240	5100	3470							
Table	210	200	425	294	293	276	251	232	214	191	158	118		
		250	745	419	417	391	353	323	293	252	189	127		
		300	1430	1032	1026	962	869	795	722	621	467	313		
		350	1800	1460	1450	1420	1280	1160	1040	880	620	350		
		450	3810	2390	2350	2170	1900	1660	1410	1020				
		600	8750	4990	4830	4310	3550	2810	1980					
Flat	240	700	14700	8680	8340	7290	5800	4270	2550					
		200	425	306	305	288	263	244	228	205	174	147		
		250	806	685	684	681	665	617	577	516	433	361		
		300	1430	1080	1070	1010	910	840	780	680	540	410		
		350	1800	1530	1520	1490	1350	1230	1130	980	750	520		
		450	3810	2490	2460	2290	2030	1810	1600	1270	690			
Torque table	270	600	11900	6450	6330	5790	5000	4280	3560	2340				
		700	14700	9080	8810	7880	6550	5240	3880					
		200	425	315	315	297	272	252	237	216	186	160		
		250	806	706	705	703	688	639	599	546	466	398		
		300	1540	1350	1350	1330	1210	1120	1050	950	790	650		
		350	2970	1920	1910	1800	1630	1510	1400	1250	1010	800		
Parallel cam unit	300	450	4660	3250	3230	3020	2720	2470	2250	1930	1370			
		600	11900	6660	6560	6050	5310	4650	4010	3000				
		700	14700	9380	9170	8320	7090	5930	4760					
		200	597	368	368	347	318	296	279	258	224	198		
		250	806	722	721	719	705	656	616	568	491	426		
		300	1540	1380	1380	1360	1240	1150	1080	990	840	710		
Option	330	350	2970	1960	1960	1840	1680	1550	1450	1320	1090	890		
		450	4660	3330	3310	3100	2800	2560	2360	2070	1570	1070		
		600	11900	6820	6740	6250	5530	4920	4350	3490	1860			
		700	14700	9610	9440	8640	7490	6440	5400	3780				
		200	597	375	374	354	324	302	284	264	233	207		
		250	806	735	734	733	718	669	630	582	511	449		
24	120	300	1540	1410	1400	1380	1260	1180	1100	1020	880	760		
		350	2970	2000	1990	1880	1710	1590	1490	1360	1160	970		
		450	4660	3390	3370	3170	2870	2640	2440	2170	1730	1280		
		600	12600	8410	8340	7790	6980	6320	5720	4870	3350	1700		
		700	14700	9790	9650	8890	7800	6820	5890					
		200	646	448	446	442	423	381	346	302	237	175		
		250	1290	893	888	868	769	685	614	519	370	218		

Discontinue

Index series

●RGID flange shaft (1 dwell)

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)								
				20	40	60	80	100	120	150	200	250
24	120	300	3180	1700	1680	1570	1380	1220	1070	880	550	
		350	4540	2500	2470	2290	2000	1740	1510	1180	610	
		450	8930	3950	3860	3500	2920	2370	1830			
		600	17800	8840	8440	7290	5520	3680				
		700	37000	11910	11020	8890	5690					
	150	200	950	650	649	612	558	509	469	420	354	297
		250	2120	1210	1200	1130	1030	930	850	750	610	480
		300	3180	1880	1880	1760	1590	1430	1300	1120	850	590
		350	6390	3460	3440	3230	2920	2620	2370	2040	1530	1030
		450	9470	5330	5270	4890	4330	3780	3280	2550		
		600	31700	11500	11300	10200	8700	7100	5500	3000		
		700	48300	22000	21400	19200	16100	12800	9500	4100		
	180	200	1030	846	845	835	763	711	658	596	518	455
		250	2120	1290	1290	1210	1110	1030	940	850	710	600
		300	3890	2550	2540	2400	2180	2020	1850	1650	1370	1120
		350	6390	3700	3690	3470	3150	2910	2660	2340	1890	1480
		450	9470	5700	5660	5290	4740	4300	3830	3200	2190	
		600	31700	12300	12200	11200	9800	8600	7200	5200		
		700	48300	23500	23100	21200	18400	15800	13000	8800		
	210	200	1030	885	885	874	800	746	701	638	559	498
		250	2650	1760	1760	1660	1520	1410	1330	1200	1040	910
		300	3890	2670	2660	2510	2290	2130	1990	1790	1520	1290
		350	6390	3870	3870	3640	3320	3080	2870	2560	2140	1770
		450	9470	5960	5930	5560	5030	4600	4220	3640	2760	1890
		600	31700	12900	12800	11900	10600	9400	8300	6600	3700	
		700	47800	27600	27300	25300	22500	20000	17600	13800	7300	
	240	200	1030	914	913	902	826	771	728	669	590	530
		250	2650	1810	1810	1710	1570	1460	1380	1260	1100	980
300		5470	3430	3430	3240	2960	2760	2590	2370	2060	1810	
350		8700	4940	4940	4660	4260	3960	3720	3390	2910	2520	
450		13300	8600	8580	8080	7350	6790	6340	5680	4680	3780	
600		31700	13400	13200	12400	11100	10000	9100	7600	5100	2500	
700		47800	28500	28300	26400	23600	21300	19200	16000	10500	4600	
270	200	1030	935	934	923	846	790	746	694	614	554	
	250	2650	1860	1850	1750	1610	1500	1410	1310	1150	1030	
	300	5470	3510	3510	3310	3030	2830	2660	2470	2160	1920	
	350	8700	5060	5050	4770	4370	4060	3830	3530	3070	2690	
	450	13300	8800	8780	8280	7550	7000	6550	5980	5030	4210	
	600	41400	22400	22300	21000	19000	17500	16200	14500	11600	8800	
	700	51200	36500	36300	34000	30700	28100	25800	22700	17200	11700	
300	200	1690	1160	1160	1090	1000	940	890	830	740	670	
	250	2650	1890	1890	1780	1630	1520	1440	1340	1190	1070	
	300	5470	3570	3570	3370	3090	2880	2720	2520	2240	2000	
	350	8700	5150	5140	4860	4450	4140	3900	3620	3190	2830	
	450	13300	8950	8940	8430	7700	7150	6700	6160	5300	4530	
	600	41400	22800	22700	21400	19400	17900	16700	15100	12500	10000	
	700	51200	37100	37000	34700	31500	28900	26800	23900	19000	14100	
330	200	1690	1170	1170	1110	1020	950	900	840	760	690	
	250	2650	1910	1910	1810	1660	1550	1460	1360	1220	1110	
	300	5470	3620	3610	3420	3130	2920	2760	2560	2300	2070	
	350	8700	5210	5210	4930	4510	4200	3970	3680	3290	2940	
	450	13300	9070	9050	8550	7810	7260	6820	6290	5520	4790	
	600	41400	23100	23000	21700	19800	18300	17100	15500	13200	10900	
	700	51200	37600	37500	35300	32000	29500	27400	24700	20400	16000	

Product specifications

Small

Standard

Wide angle

Table

Small/multi-index

Flat

Torque table

Standard

Torque table

Parallel cam unit

Option

Option

Option

Option

Option

Output torque table

Index series

●RGID flange shaft (1 dwell)

Cam curve/MS

Product specifications	Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Dynamic rated output torque (N·m)								
					Input shaft rotational speed (rpm)								
					20	40	60	80	100	120	150	200	250
Roller gear cam unit	30	90	200	597	275	272	251	217	190	165	130	70	5
			250	806	540	532	515	474	408	346	256	98	
			300	1540	1029	1010	959	806	672	544	349		
			350	2970	1460	1420	1270	1040	820	610			
			450	4660	2460	2330	1970	1430	880				
			600	12600	6020	5450	4140	2210					
			700	20800	9700	8430	5730						
	30	120	200	597	316	314	295	265	237	215	185	139	94
			250	1190	813	809	758	679	607	546	466	341	216
			300	1540	1180	1170	1140	1010	890	780	630	390	
			350	3710	2190	2170	2020	1780	1560	1370	1090	620	
			450	6560	3550	3480	3170	2700	2230	1770			
			600	12600	7010	6700	5790	4450	2980				
			700	20800	11370	10660	8860	6230	3270				
	30	150	200	646	538	537	535	524	483	446	400	341	290
			250	1290	1070	1070	1050	960	880	810	720	590	480
			300	2540	1560	1560	1460	1320	1200	1090	950	730	520
			350	3710	2380	2360	2210	2000	1810	1630	1390	1020	640
			450	8930	4760	4720	4380	3900	3470	3030	2420	1390	
			600	17800	10700	10500	9580	8250	6960	5600	3530		
			700	37000	14500	14000	12500	10300	8000				
30	180	200	646	565	564	563	552	514	480	435	377	330	
		250	1290	1130	1120	1110	1010	940	870	790	670	570	
		300	2540	1640	1640	1540	1400	1290	1200	1060	870	690	
		350	4540	3160	3150	2970	2700	2490	2300	2040	1660	1320	
		450	8930	5010	4970	4650	4180	3810	3440	2910	2060		
		600	17800	11300	11100	10300	9100	8000	6900	5200	2300		
		700	37000	15300	15000	13600	11700	9800	7900				
30	210	200	646	583	583	582	571	532	502	459	402	357	
		250	1290	1160	1160	1150	1050	970	920	830	720	630	
		300	3180	2210	2210	2090	1900	1770	1660	1500	1280	1100	
		350	4540	3270	3260	3070	2800	2600	2430	2190	1840	1530	
		450	9470	6260	6240	5860	5320	4890	4530	4000	3170	2390	
		600	17800	11600	11500	10700	9600	8600	7700	6300	3900		
		700	37000	15800	15600	14300	12600	11000	9400	6900			
30	240	200	950	781	780	738	676	631	596	553	488	439	
		250	2120	1450	1440	1370	1250	1160	1100	1020	890	790	
		300	3180	2260	2260	2140	1950	1820	1710	1570	1360	1190	
		350	4540	3340	3340	3150	2870	2670	2510	2300	1970	1690	
		450	9470	6400	6380	6010	5470	5050	4710	4260	3500	2810	
		600	17800	11900	11800	11100	9900	9000	8200	7100	5000		
		700	37000	16200	16000	14800	13200	11700	10300	8300			
30	270	200	950	793	793	750	687	642	606	564	504	455	
		250	2120	1470	1470	1390	1270	1190	1120	1040	920	830	
		300	3180	2300	2300	2170	1990	1850	1740	1610	1420	1250	
		350	6390	4230	4230	3990	3650	3400	3200	2960	2600	2290	
		450	9470	6500	6490	6120	5570	5160	4830	4410	3740	3110	
		600	31700	14100	14100	13200	11900	10900	10100	8900	7000	5000	
		700	48300	27000	26800	25100	22700	20700	19000	16700	12600	8400	
30	300	200	950	802	802	759	695	650	614	572	517	468	
		250	2120	1490	1480	1400	1290	1200	1130	1050	950	850	
		300	3180	2330	2330	2200	2010	1880	1770	1640	1470	1300	
		350	6390	4280	4280	4040	3700	3450	3250	3010	2690	2390	
		450	9470	6580	6570	6200	5650	5250	4920	4510	3920	3340	
		600	31700	14300	14200	13400	12100	11200	10400	9300	7600	5800	

Discontinue

Index series

●RGID flange shaft (1 dwell)

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)								
				20	40	60	80	100	120	150	200	250
30	300	700	48300	27300	27200	25500	23100	21200	19600	17400	13900	10200
		200	950	809	809	766	702	656	620	578	527	479
		250	2120	1500	1500	1420	1300	1210	1140	1070	970	880
		300	3180	2350	2350	2220	2030	1890	1790	1660	1500	1340
		350	6390	4320	4320	4080	3740	3480	3290	3050	2750	2460
		450	9470	6640	6630	6260	5720	5310	4990	4590	4050	3510
		600	31700	14400	14400	13500	12300	11400	10600	9600	8100	6500
		700	48300	27500	27400	25800	23400	21600	20000	18000	14900	11600
32	90	200	597	285	282	262	227	199	174	140	82	19
		250	806	559	552	537	497	430	369	280	127	
		300	1540	1070	1050	1000	850	710	590	400		
		350	2970	1510	1470	1330	1100	880	680			
		450	4660	2550	2430	2090	1550	1010				
		600	12600	6250	5720	4470	2590					
		700	14700	7100	5940							
		120	200	597	324	323	303	273	245	222	192	148
	250	1190	834	830	778	700	627	566	486	364	243	
	300	1540	1220	1210	1170	1050	920	820	670	430		
	350	2970	1720	1700	1580	1390	1210	1040	800			
	450	6560	3640	3570	3270	2810	2350	1900	1220			
	600	12600	7200	6910	6020	4730	3310					
	700	20800	11680	11020	9270	6750	3890					
	150	200	597	349	348	328	298	275	252	224	185	149
	250	1290	1090	1090	1070	980	900	830	740	610	500	
	300	2540	1590	1590	1490	1350	1240	1120	980	760	560	
	350	3710	2420	2410	2260	2040	1860	1680	1440	1070	710	
	450	6560	3930	3880	3600	3190	2830	2450	1910			
	600	12600	7790	7600	6860	5800	4770	3630				
	700	20800	12700	12200	10800	8800	6800	4500				
	180	200	646	573	572	571	560	522	489	443	385	339
	250	1290	1140	1140	1120	1030	950	890	800	690	590	
	300	2540	1670	1660	1570	1420	1320	1220	1090	890	720	
350	3710	2540	2530	2380	2160	1990	1840	1620	1300	1000		
450	8930	5080	5050	4730	4260	3880	3530	3000	2180	1340		
600	17800	11400	11300	10500	9200	8200	7200	5500	2700			
700	37000	15500	15200	13900	12000	10200	8400					
210	200	646	590	589	589	578	539	508	467	409	364	
250	1290	1180	1170	1160	1060	990	930	850	730	640		
300	2540	1720	1710	1620	1470	1370	1280	1160	980	830		
350	4540	3300	3300	3110	2840	2630	2460	2230	1880	1580		
450	8930	5230	5210	4890	4430	4070	3760	3310	2590	1890		
600	17800	11800	11700	10900	9700	8800	7900	6500	4200			
700	37000	16000	15800	14600	12800	11200	9700	7300				
240	200	646	602	601	601	590	550	519	483	426	383	
250	1290	1200	1200	1180	1080	1010	950	880	770	680		
300	3180	2280	2280	2160	1970	1830	1730	1590	1380	1210		
350	4540	3370	3370	3180	2900	2700	2530	2330	2000	1730		
450	8930	5340	5320	5010	4550	4200	3900	3520	2870	2260		
600	17800	12000	11900	11200	10100	9200	8400	7200	5200	3100		
700	37000	16300	16200	15000	13300	11900	10600	8600				
270	200	646	610	610	609	599	559	528	491	440	397	
250	1290	1220	1210	1200	1100	1020	970	900	800	710		
300	3180	2320	2310	2190	2000	1860	1760	1630	1440	1270		
350	4540	3420	3420	3230	2950	2750	2580	2380	2090	1830		
450	9470	6550	6540	6170	5620	5210	4880	4460	3810	3200		

Product specifications

Small
Standard
Wide angle
Table
Small/multi-index
Flat
Torque table
Parallel cam unit
Standard
Torque table
Option

Output torque table

Index series

●RGID flange shaft (1 dwell)

Cam curve/MS

Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Dynamic rated output torque (N·m)									
						Input shaft rotational speed (rpm)									
						20	40	60	80	100	120	150	200	250	
Roller gear cam unit	Small	32	270	600	17800	12200	12100	11400	10300	9400	8700	7700	5900	4200	
				700	37000	16600	16400	15300	13700	12400	11200	9500	6400		
			300	200	950	807	807	763	700	654	618	576	522	474	
				250	1290	1230	1230	1210	1110	1040	980	910	820	740	
				300	3180	2340	2340	2210	2020	1890	1780	1650	1480	1320	
				350	4540	3460	3450	3260	2980	2780	2620	2420	2160	1910	
				450	9470	6620	6610	6240	5690	5290	4960	4550	3980	3410	
		600	17800	12300	12300	11500	10500	9600	8900	8000	6500	4900			
		700	37000	16800	16700	15600	14000	12700	11600	10100	7400				
		330	200	950	813	813	770	705	659	623	581	530	484		
			250	2120	1510	1510	1420	1300	1220	1150	1070	970	880		
			300	3180	2360	2360	2230	2040	1900	1800	1670	1510	1360		
			350	4540	3480	3480	3290	3010	2810	2650	2450	2210	1980		
			450	9470	6670	6660	6290	5750	5340	5020	4630	4100	3580		
	600		17800	12400	12400	11700	10600	9800	9100	8200	6900	5500			
	700		37000	16900	16800	15800	14200	13000	11900	10500	8200	5600			
	Wide angle	Table	90	200	425	264	262	244	212	187	164	110	81	25	
				250	745	377	370	339	286	240	196	129			
				300	1430	927	911	835	705	591	482	318			
				350	1800	1310	1280	1220	1010	820	630	340			
				450	3810	2130	2030	1740	1280						
600				11900	5460	4990	3910	2260							
700				14700	7590	6550	4390								
Flat		120	200	597	338	337	316	287	259	236	206	162	121		
			250	806	663	660	653	634	569	514	442	333	225		
			300	1540	1270	1260	1230	1100	980	880	730	500	260		
			350	2970	1800	1780	1650	1470	1290	1130	900	510			
			450	4660	3040	2980	2720	2340	1950	1560	970				
			600	12600	7520	7260	6410	5190	3850	2460					
			700	14700	8680	8100	6650								
Torque table	Standard	150	200	597	360	359	338	308	285	263	234	196	161		
			250	1190	924	922	869	790	731	672	597	493	400		
			300	1540	1350	1340	1320	1190	1100	1000	870	680	500		
			350	2970	1910	1900	1780	1610	1460	1320	1120	820	510		
			450	6560	4050	4010	3730	3320	2980	2610	2100	1240			
			600	12600	8040	7870	7150	6120	5160	4090	2430				
			700	20800	13100	12700	11400	9400	7500	5400					
	Option	180	200	597	373	373	352	321	299	280	253	216	186		
			250	1190	959	957	904	824	765	718	646	550	467		
			300	1540	1400	1400	1370	1250	1160	1080	960	790	640		
			350	3710	2600	2590	2440	2210	2040	1900	1690	1380	1090		
			450	6560	4200	4180	3910	3520	3200	2920	2470	1770			
			600	12600	8360	8240	7600	6670	5840	5040	3710				
			700	20800	13600	13300	12200	10500	8900	7400	4700				
Parallel cam unit	Standard	210	200	597	382	382	361	330	307	289	266	231	202		
			250	1290	1200	1190	1180	1080	1000	950	870	760	670		
			300	2540	1750	1740	1650	1500	1390	1310	1190	1020	870		
			350	3710	2660	2650	2500	2280	2110	1980	1800	1510	1260		
			450	6560	4310	4290	4020	3640	3340	3080	2720	2110	1510		
			600	12600	8580	8490	7890	7010	6260	5570	4530	2610			
			700	20800	14000	13800	12700	11100	9800	8500	6400				
	Torque table	240	200	646	610	610	609	598	558	527	491	436	393		
			250	1290	1220	1210	1200	1100	1020	960	890	790	700		
			300	2540	1780	1770	1670	1530	1420	1340	1230	1070	930		
			350	3710	2700	2700	2550	2330	2160	2030	1860	1600	1370		

Discontinue

Index series

●RGID flange shaft (1 dwell)

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)								
				20	40	60	80	100	120	150	200	250
36	240	450	6560	4380	4360	4100	3730	3430	3190	2870	2340	1820
		600	12600	8720	8660	8080	7240	6550	5930	5040	3440	
		700	20800	14200	14100	13100	11600	10300	9200	7500	4300	
	270	200	646	617	617	616	606	565	534	498	449	405
		250	1290	1230	1230	1210	1110	1040	980	910	810	730
		300	2540	1800	1790	1700	1550	1440	1360	1260	1110	980
		350	3710	2730	2730	2580	2360	2190	2060	1900	1670	1460
		450	6560	4430	4420	4160	3790	3500	3270	2960	2500	2040
		600	17800	12300	12300	11500	10400	9600	8900	7900	6300	4600
	700	20800	14400	14300	13300	11900	10700	9700	8200			
	300	200	646	622	622	622	611	571	539	503	458	416
		250	1290	1240	1240	1220	1120	1050	990	920	830	750
		300	2540	1810	1810	1710	1570	1460	1370	1270	1150	1020
		350	3710	2760	2760	2600	2380	2220	2090	1930	1730	1520
		450	6560	4470	4460	4200	3830	3550	3320	3030	2630	2210
		600	17800	12400	12400	11700	10600	9800	9100	8100	6800	5300
	700	37000	16900	16800	15800	14200	13000	11900	10400	8000		
	330	200	646	626	626	626	615	574	543	507	462	424
		250	1290	1250	1250	1230	1130	1050	1000	930	840	770
		300	2540	1820	1820	1720	1580	1470	1390	1290	1160	1050
		350	3710	2780	2770	2620	2400	2240	2110	1950	1750	1570
		450	8930	5550	5550	5240	4780	4450	4180	3840	3400	2970
		600	17800	12500	12500	11800	10700	9900	9200	8300	7100	5800
	700	37000	17000	17000	15900	14400	13200	12200	10800	8600	6300	
40	90	200	318	208	206	191	167	146	127	100	56	7
		250	745	394	388	358	306	260	218	154	40	
		300	969	741	726	702	642	539	441	293		
		350	1800	1380	1350	1290	1080	900	720	450		
		450	3810	2240	2140	1860	1430	980				
		600	8750	4620	4200	3250	1810					
	700	14700	7990	7060	5050	2070						
	120	200	425	306	305	286	260	236	214	188	148	111
		250	806	685	681	676	656	594	539	468	362	259
		300	1430	1074	1066	995	892	795	706	584	387	
		350	1800	1520	1510	1460	1300	1150	1000	800	460	
		450	3810	2480	2430	2210	1890	1560	1230			
600		11900	6410	6170	5430	4360	3210	1980				
700	14700	8990	8460	7090	5140							
150	200	597	368	367	346	316	293	271	243	205	171	
	250	806	722	720	716	699	647	597	531	438	355	
	300	1540	1380	1380	1350	1230	1130	1040	910	720	550	
	350	2970	1960	1950	1830	1650	1510	1370	1180	890	600	
	450	4660	3320	3290	3050	2710	2420	2120	1680	930		
	600	12600	8230	8080	7380	6370	5440	4460	2890			
700	14700	9550	9210	8130	6590							
180	200	597	380	379	358	327	304	286	260	223	194	
	250	806	745	743	741	725	673	631	571	485	412	
	300	1540	1420	1420	1400	1270	1180	1100	990	820	670	
	350	2970	2020	2020	1900	1720	1590	1470	1310	1050	810	
	450	4660	3430	3410	3180	2860	2590	2360	1990	1380		
	600	12600	8510	8400	7770	6850	6050	5290	4060	1850		
700	20800	13900	13600	12500	10800	9300	7800	5400				
210	200	597	387	387	366	334	312	293	271	236	208	
	250	806	760	759	757	742	690	649	598	517	450	
	300	1540	1450	1450	1430	1310	1210	1140	1040	890	760	

Product specifications

Small

Standard

Wide angle

Roller gear cam unit

Table

Small multi-index

Flat

Torque table

Standard

Parallel cam unit

Torque table

Option

Output torque table

●RGID flange shaft (1 dwell)

Cam curve/MS

Product specifications	Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Dynamic rated output torque (N·m)								
					Input shaft rotational speed (rpm)								
					20	40	60	80	100	120	150	200	250
Roller gear cam unit	40	210	350	2970	2060	2060	1940	1770	1640	1530	1390	1160	950
			450	4660	3500	3480	3270	2950	2700	2490	2190	1670	1150
			600	12600	8690	8610	8020	7150	6430	5760	4800	2990	
			700	20800	14200	14000	12900	11400	10100	8800	6900	3300	
		200	597	393	392	371	339	317	298	277	246	219	
		250	1190	1008	1007	952	871	812	765	709	628	557	
		300	1540	1470	1470	1450	1330	1230	1160	1070	930	810	
		350	2970	2090	2090	1970	1800	1670	1560	1430	1230	1040	
		450	6560	4420	4410	4150	3770	3480	3240	2930	2430	1930	
		600	12600	8810	8750	8180	7350	6670	6070	5230	3740	2140	
		700	20800	14400	14200	13200	11800	10600	9500	7800	4900		
		200	597	396	396	375	343	320	302	281	253	227	
	250	1190	1017	1017	961	880	821	774	719	647	578		
	300	1540	1490	1490	1470	1340	1250	1180	1090	970	850		
	350	2970	2110	2110	1990	1820	1690	1590	1460	1290	1110		
	450	6560	4460	4450	4200	3820	3540	3310	3010	2580	2130		
	600	12600	8900	8850	8300	7490	6850	6290	5520	4280	2900		
	700	20800	14500	14400	13400	12100	10900	9900	8500	6000	3200		
	200	597	399	399	377	346	323	305	283	257	233		
	250	1190	1024	1024	968	887	828	781	727	658	595		
	300	1540	1500	1500	1480	1350	1260	1190	1100	990	880		
	350	3710	2780	2770	2620	2400	2230	2110	1950	1750	1560		
	450	6560	4500	4490	4230	3860	3580	3360	3070	2680	2280		
	600	12600	8960	8930	8380	7590	6970	6440	5740	4640	3460		
700	20800	14600	14500	13600	12300	11200	10200	8900	6800	4400			
200	597	401	401	379	348	325	307	286	259	238			
250	1190	1030	1029	974	892	833	786	732	664	608			
300	1540	1510	1500	1490	1360	1270	1200	1110	1000	910			
350	3710	2790	2790	2640	2410	2250	2120	1970	1770	1600			
450	6560	4520	4510	4260	3890	3610	3390	3120	2740	2400			
600	12600	9010	8980	8450	7670	7060	6560	5890	4890	3880			
700	20800	14700	14600	13700	12400	11400	10500	9200	7300	5300			
Parallel cam unit	Standard	Torque table											
Option	Standard	Torque table											

Discontinue

Index series

Product specifications

Small	Standard	Wide angle	Table	Small multi-index	Flat	Torque table	Standard	Torque table	Option
Roller gear cam unit									

Output torque table

Index series

●RGID flange shaft (2 dwells)

Cam curve/MS

Product specifications	Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Dynamic rated output torque (N·m)								
					Input shaft rotational speed (rpm)								
					10	20	30	40	50	60	75	100	125
Roller gear cam unit	48	150	200	597	316	316	298	272	252	236	211	179	150
			250	1190	814	812	766	698	647	604	540	453	377
			300	1540	1190	1180	1160	1050	970	900	790	640	490
			350	3710	2200	2190	2060	1870	1720	1590	1390	1100	830
			450	6560	3560	3540	3300	2950	2670	2400	1980	1300	
			600	12600	7080	6950	6360	5510	4730	3950	2640		
	700	20800	11500	11200	10100	8600	7100	5500	2900				
	180	200	950	695	695	657	602	561	529	489	430	384	
		250	2120	1290	1290	1220	1110	1040	980	900	780	690	
		300	3890	2550	2550	2410	2200	2050	1920	1770	1530	1330	
		350	6390	3700	3700	3490	3190	2960	2780	2540	2170	1860	
		450	9470	5700	5680	5350	4850	4470	4150	3700	2980	2290	
600		31700	12400	12300	11500	10300	9300	8500	7200	4900	2600		
700	47800	26400	26200	24500	21900	19800	17900	15100	10100	4800			
210	200	1030	885	885	875	801	748	707	659	588	532		
	250	2650	1760	1760	1660	1520	1420	1340	1250	1110	990		
	300	3890	2670	2670	2520	2300	2150	2020	1880	1650	1460		
	350	8700	4790	4790	4520	4140	3850	3630	3360	2950	2610		
	450	13300	8340	8320	7850	7160	6650	6230	5710	4890	4150		
	600	31700	12900	12900	12100	10900	10000	9200	8100	6200	4200		
700	47800	27700	27500	25800	23300	21300	19500	17100	12900	8600			
240	200	1030	914	913	903	828	773	731	682	618	561		
	250	2650	1810	1810	1720	1570	1470	1390	1290	1170	1050		
	300	5470	3430	3430	3240	2970	2770	2620	2430	2190	1970		
	350	8700	4940	4940	4670	4280	3990	3760	3490	3130	2790		
	450	13300	8610	8590	8120	7410	6890	6480	5970	5250	4560		
	600	41400	21900	21800	20600	18700	17300	16200	14800	12600	10400		
700	47800	28600	28500	26700	24200	22300	20600	18400	14900	11200			
270	200	1030	935	935	924	847	791	748	698	637	583		
	250	2650	1860	1860	1760	1610	1500	1420	1320	1200	1100		
	300	5470	3510	3510	3320	3040	2840	2680	2500	2270	2060		
	350	8700	5060	5060	4780	4380	4090	3860	3590	3250	2930		
	450	13300	8800	8790	8310	7600	7070	6660	6160	5500	4860		
	600	41400	22400	22400	21100	19200	17900	16700	15300	13400	11400		
700	51200	36500	36400	34300	31200	28900	27000	24500	21000	17300			
300	200	1690	1160	1160	1100	1000	940	890	830	760	700		
	250	2650	1890	1890	1790	1640	1530	1450	1350	1230	1130		
	300	5470	3570	3570	3380	3090	2890	2730	2550	2320	2130		
	350	8700	5150	5140	4870	4460	4160	3930	3660	3320	3040		
	450	13300	8950	8950	8460	7740	7210	6800	6300	5650	5100		
	600	41400	22800	22700	21500	19600	18200	17100	15800	13900	12200		
700	51200	37200	37100	35000	31900	29600	27700	25300	22000	18800			
330	200	1690	1170	1170	1110	1020	950	900	840	770	720		
	250	2650	1910	1910	1810	1660	1550	1470	1370	1250	1160		
	300	5470	3620	3620	3420	3140	2930	2770	2580	2350	2180		
	350	8700	5210	5210	4930	4520	4220	3990	3720	3380	3120		
	450	13300	9070	9060	8570	7840	7320	6900	6410	5770	5270		
	600	41400	23100	23100	21800	19900	18500	17400	16100	14300	12800		
700	51200	37600	37600	35500	32400	30100	28200	25900	22700	19900			
60	150	200	646	538	537	536	526	491	462	423	370	328	
		250	1290	1070	1070	1060	970	900	840	770	660	580	
		300	2540	1560	1560	1470	1340	1240	1160	1050	880	730	
		350	4540	3010	3000	2830	2580	2390	2230	2010	1680	1390	
		450	8930	4770	4750	4450	4030	3690	3390	2960	2260	1570	
		600	17800	10700	10600	9900	8800	7900	7000	5700	3400		

Discontinue

Index series

●RGID flange shaft (2 dwells)

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)								
				10	20	30	40	50	60	75	100	125
60	150	700	37000	14600	14300	13200	11500	10000	8500	6100		
		200	646	565	565	564	554	517	488	453	401	360
		250	1290	1130	1130	1110	1020	950	890	830	730	640
		300	3180	2150	2140	2020	1850	1720	1620	1500	1300	1140
		350	4540	3160	3160	2980	2720	2530	2380	2190	1880	1620
		450	8930	5010	4990	4700	4270	3940	3660	3300	2700	2130
		600	17800	11300	11200	10500	9400	8600	7800	6800	4900	2900
	700	37000	15300	15200	14100	12500	11200	9900	8100			
	180	200	950	764	763	722	662	618	584	544	491	445
		250	1290	1160	1160	1150	1050	980	920	860	770	690
		300	3180	2220	2210	2090	1910	1780	1680	1560	1390	1230
		350	4540	3270	3260	3080	2820	2630	2470	2290	2020	1780
		450	9470	6270	6250	5900	5380	4990	4680	4280	3700	3130
		600	17800	11700	11600	10900	9900	9000	8300	7400	5900	4300
		700	37000	15900	15700	14700	13200	11900	10800	9200	6500	3400
	210	200	950	781	781	739	677	633	598	558	508	464
		250	2120	1450	1450	1370	1250	1170	1110	1030	930	850
		300	3180	2260	2260	2140	1960	1830	1720	1600	1450	1300
		350	4540	3340	3340	3160	2890	2690	2540	2350	2120	1890
		450	9470	6410	6400	6040	5520	5130	4820	4440	3920	3410
		600	17800	11900	11900	11200	10200	9400	8700	7800	6500	5100
		700	37000	16200	16100	15100	13600	12400	11400	10000	7700	5200
	240	200	950	793	793	750	688	643	608	567	518	479
		250	2120	1470	1470	1390	1270	1190	1120	1050	950	880
		300	3180	2300	2300	2170	1990	1860	1760	1630	1480	1350
		350	6390	4230	4230	4000	3660	3420	3230	3000	2720	2480
		450	9470	6510	6500	6140	5610	5230	4920	4540	4050	3620
		600	31700	14100	14100	13300	12100	11200	10500	9600	8200	7000
		700	48300	27000	26900	25400	23100	21300	19900	18100	15400	12800
	270	200	950	802	802	759	696	651	615	575	525	488
		250	2120	1490	1480	1410	1290	1200	1140	1060	970	900
		300	3180	2330	2330	2200	2020	1880	1780	1660	1510	1390
		350	6390	4280	4280	4050	3710	3460	3270	3050	2770	2550
		450	9470	6580	6580	6220	5690	5300	4990	4620	4150	3750
		600	31700	14300	14300	13500	12300	11400	10700	9800	8600	7500
		700	48300	27300	27200	25700	23400	21700	20300	18500	16000	13800
	300	200	950	809	809	766	702	656	621	580	530	494
		250	2120	1500	1500	1420	1300	1210	1150	1070	980	910
		300	3180	2350	2350	2220	2030	1900	1800	1670	1520	1410
		350	6390	4320	4320	4080	3740	3500	3300	3080	2800	2590
		450	9470	6640	6630	6270	5740	5350	5050	4680	4220	3840
		600	31700	14400	14400	13600	12400	11500	10800	10000	8800	7800
700		48300	27500	27500	25900	23700	22000	20600	18900	16500	14400	
330	200	425	284	284	267	243	225	208	185	154	125	
	250	806	637	635	632	616	569	525	465	381	305	
	300	1430	999	994	932	842	771	702	604	457	310	
	350	1800	1420	1410	1380	1240	1120	1010	860	600	350	
	450	3810	2310	2280	2100	1840	1610	1380	1010			
	600	11900	5980	5830	5270	4450	3670	2820	1440			
	700	14700	8410	8080	7080	5650	4180	2550				
64	120	200	646	548	548	547	537	500	472	433	379	337
		250	1290	1090	1090	1080	980	920	860	790	680	600
		300	2540	1590	1590	1500	1370	1270	1190	1070	910	760
		350	3710	2430	2420	2280	2070	1920	1790	1610	1330	1090
		450	6560	3930	3910	3670	3310	3020	2770	2400	1790	1180

Product specifications

Small
Standard
Wide angle
Table
Small multi-index
Flat
Torque table
Parallel cam unit
Torque table
Option

Output torque table

Index series

●RGID flange shaft (2 dwells)

Cam curve/MS

Product specifications		Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Dynamic rated output torque (N·m)									
						Input shaft rotational speed (rpm)									
						10	20	30	40	50	60	75	100	125	
Roller gear cam unit	Small	64	150	600	17800	10900	10800	10100	9000	8100	7300	6000	3700	1300	
				700	20800	12700	12500	11500	10000	8600					
				200	646	573	573	572	562	524	495	461	409	368	
				250	1290	1140	1140	1130	1030	960	910	840	740	660	
				300	2540	1670	1670	1570	1440	1340	1260	1160	1000	870	
				350	4540	3210	3210	3030	2770	2570	2420	2220	1930	1670	
	Standard	210	450	8930	5080	5070	4770	4340	4010	3730	3370	2790	2230		
			600	17800	11500	11400	10700	9600	8800	8000	7000	5200	3300		
			700	37000	15600	15400	14300	12800	11400	10200	8400				
			200	646	590	590	589	579	541	511	476	431	389		
			250	1290	1180	1170	1160	1060	990	940	870	780	700		
			300	2540	1720	1710	1620	1480	1380	1300	1200	1070	950		
Wide angle	240	350	4540	3310	3300	3120	2850	2660	2500	2320	2060	1820			
		450	8930	5230	5220	4920	4490	4160	3890	3560	3070	2570			
		600	17800	11800	11700	11000	10000	9200	8500	7600	6100	4500			
		700	37000	16000	15900	14900	13400	12100	11000	9500	6900	3900			
		200	646	602	602	601	591	552	522	487	443	405			
		250	1290	1200	1200	1180	1080	1010	960	890	810	730			
Table	270	300	3180	2290	2280	2160	1980	1850	1740	1620	1460	1320			
		350	4540	3370	3370	3190	2920	2720	2560	2380	2140	1920			
		450	8930	5340	5330	5030	4590	4270	4000	3680	3240	2810			
		600	17800	12000	12000	11300	10300	9500	8800	8000	6700	5400			
		700	37000	16400	16300	15300	13800	12600	11600	10200	8000	5600			
		200	950	799	799	756	693	648	613	572	522	484			
Small multi-index	300	250	1290	1220	1210	1200	1100	1030	970	910	820	760			
		300	3180	2320	2320	2190	2010	1870	1770	1650	1490	1370			
		350	4540	3420	3420	3230	2960	2760	2610	2420	2190	2000			
		450	9470	6550	6550	6190	5660	5270	4960	4590	4100	3680			
		600	17800	12200	12200	11500	10500	9700	9000	8200	7100	6000			
		700	37000	16600	16500	15500	14100	12900	12000	10700	8700	6800			
Flat	330	200	950	807	807	764	700	655	619	578	528	492			
		250	1290	1230	1230	1210	1110	1040	980	920	830	770			
		300	3180	2340	2340	2210	2030	1890	1790	1670	1520	1400			
		350	4540	3460	3450	3270	2990	2790	2640	2460	2230	2050			
		450	9470	6620	6620	6250	5720	5330	5030	4660	4180	3800			
		600	17800	12300	12300	11600	10600	9800	9200	8400	7300	6300			
Torque table	330	700	37000	16800	16700	15700	14300	13200	12300	11100	9300	7600			
		200	950	813	813	770	706	660	624	583	533	497			
		250	1290	1240	1240	1220	1120	1050	990	920	840	780			
		300	3180	2360	2360	2230	2050	1910	1810	1680	1530	1420			
		350	4540	3480	3480	3290	3020	2820	2660	2480	2250	2080			
		450	9470	6670	6670	6310	5770	5380	5080	4710	4250	3880			
Standard	72	600	17800	12400	12400	11700	10700	9900	9300	8600	7500	6600			
		700	37000	16900	16900	15900	14500	13400	12500	11300	9700	8100			
		200	597	338	337	318	290	269	251	225	191	161			
		250	806	664	662	659	644	596	554	493	410	336			
		300	1540	1270	1260	1240	1130	1040	960	850	680	530			
		350	2970	1800	1790	1680	1520	1390	1280	1100	840	580			
Torque table	120	450	4660	3050	3020	2810	2500	2240	1990	1590	930				
		600	12600	7570	7430	6810	5900	5070	4230	2850					
		700	20800	12300	12000	10900	9200	7600	5900	3100					
		200	597	360	359	339	310	289	272	250	217	190			
		250	1190	925	923	872	797	741	697	640	552	480			
		300	1540	1350	1350	1330	1210	1120	1050	960	810	680			
Option	150	350	2970	1920	1910	1800	1640	1510	1410	1270	1040	840			

Discontinue

Index series

●RGID flange shaft (2 dwells)

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)								
				10	20	30	40	50	60	75	100	125
72	150	450	6560	4050	4030	3790	3420	3140	2890	2550	1960	1380
		600	12600	8070	7980	7410	6580	5870	5200	4200	2350	
		700	20800	13100	12900	11900	10400	9100	7900	5900		
	180	200	597	373	373	353	323	301	284	263	234	208
		250	1190	959	959	906	829	772	728	674	597	529
		300	2540	1710	1700	1610	1470	1370	1290	1190	1040	910
		350	3710	2600	2590	2450	2240	2080	1950	1790	1560	1340
		450	6560	4210	4190	3950	3590	3310	3080	2780	2300	1820
		600	12600	8380	8320	7780	6980	6330	5750	4930	3500	1930
		700	20800	13700	13500	12600	11200	10000	8900	7400	4500	
	210	200	646	600	600	600	589	550	520	485	441	400
		250	1290	1200	1200	1180	1080	1010	950	890	800	720
		300	2540	1750	1750	1650	1510	1410	1330	1230	1100	980
		350	3710	2660	2660	2510	2300	2140	2010	1860	1660	1460
		450	6560	4310	4300	4050	3690	3420	3200	2920	2520	2100
		600	12600	8590	8550	8020	7240	6630	6100	5370	4230	2940
		700	20800	14000	13900	13000	11700	10600	9600	8300	6000	3400
	240	200	646	610	610	610	599	560	529	494	450	414
		250	1290	1220	1210	1200	1100	1030	970	900	820	750
		300	2540	1780	1770	1680	1540	1430	1350	1260	1130	1030
		350	3710	2700	2700	2550	2340	2180	2050	1900	1710	1540
		450	6560	4380	4370	4130	3770	3500	3280	3010	2640	2290
		600	12600	8730	8700	8180	7420	6830	6320	5660	4660	3620
		700	20800	14200	14200	13300	12000	11000	10100	8900	6900	4900
	270	200	646	617	617	617	606	567	536	500	457	424
		250	1290	1230	1230	1210	1110	1040	980	920	830	770
		300	2540	1800	1800	1700	1560	1450	1370	1270	1150	1060
		350	3710	2740	2730	2590	2370	2210	2080	1930	1750	1600
		450	6560	4430	4420	4180	3820	3550	3340	3080	2730	2430
		600	17800	12300	12300	11600	10600	9800	9200	8400	7300	6200
		700	20800	14400	14300	13500	12200	11200	10400	9300	7600	5800
	300	200	646	622	622	622	611	571	541	505	461	429
		250	1290	1240	1240	1220	1120	1050	990	930	840	780
		300	2540	1810	1810	1710	1570	1460	1380	1290	1170	1080
		350	3710	2760	2760	2610	2390	2230	2100	1960	1770	1630
		450	6560	4470	4460	4220	3860	3590	3380	3120	2790	2510
		600	17800	12500	12400	11700	10700	9900	9300	8600	7500	6600
		700	37000	16900	16900	15900	14500	13400	12500	11300	9600	7900
	330	200	646	626	626	626	615	575	544	508	465	433
		250	1290	1250	1250	1230	1130	1060	1000	930	850	790
		300	2540	1820	1820	1720	1580	1480	1390	1300	1180	1090
		350	3710	2780	2770	2620	2400	2250	2120	1970	1790	1650
450		6560	4490	4490	4240	3880	3620	3410	3160	2830	2570	
600		17800	12500	12500	11800	10800	10000	9400	8700	7700	6800	
700		37000	17000	17000	16000	14600	13500	12600	11500	9900	8400	
80	120	200	425	306	305	288	263	244	228	205	174	147
		250	806	685	684	681	665	617	577	516	433	361
		300	1430	1080	1070	1010	910	840	780	680	540	410
		350	1800	1530	1520	1490	1350	1230	1130	980	750	520
		450	3810	2490	2460	2290	2030	1810	1600	1270		
		600	11900	6450	6330	5790	5000	4280	3560	2340		
	150	200	597	368	368	347	318	296	279	258	224	198
		250	806	722	721	719	705	656	616	568	491	426
		300	1540	1380	1380	1360	1240	1150	1080	990	840	710

Product specifications

Small

Standard

Wide angle

Roller gear cam unit

Table

Small multi-index

Flat

Torque table

Standard

Parallel cam unit

Torque table

Option

Output torque table

Index series

●RGID flange shaft (2 dwells)

Cam curve/MS

Product specifications	Index number	Total index angle (deg)	Size	Static rated output torque (N·m)	Dynamic rated output torque (N·m)								
					Input shaft rotational speed (rpm)								
					10	20	30	40	50	60	75	100	125
Roller gear cam unit	80	150	350	2970	1960	1960	1840	1680	1550	1450	1320	1090	890
			450	4660	3330	3310	3100	2800	2560	2360	2070	1570	1070
			600	12600	8260	8180	7610	6780	6090	5450	4510	2760	
			700	14700	9610	9440	8640	7490	6440				
			200	597	380	380	359	329	306	289	268	240	214
			250	806	745	744	743	729	679	640	593	527	467
			300	1540	1430	1420	1400	1280	1190	1120	1040	910	800
	180	350	2970	2020	2020	1910	1740	1620	1520	1390	1210	1030	
		450	4660	3430	3420	3220	2920	2690	2500	2250	1850	1440	
		600	12600	8530	8470	7930	7140	6500	5930	5140	3810	2340	
		700	20800	13900	13800	12800	11500	10300	9300	7800	5100		
		200	597	387	387	366	336	313	296	275	249	226	
		250	806	760	759	758	745	695	655	609	549	495	
		300	1540	1450	1450	1430	1310	1220	1150	1070	960	850	
	210	350	2970	2070	2060	1950	1780	1660	1560	1440	1280	1120	
		450	4660	3500	3490	3290	3000	2770	2590	2360	2020	1680	
		600	12600	8700	8660	8140	7360	6750	6230	5530	4440	3250	
		700	20800	14200	14100	13200	11900	10800	9900	8600	6400	4100	
		200	597	393	392	371	340	318	300	280	254	234	
		250	1190	1010	1010	950	870	820	770	720	650	600	
		300	1540	1470	1470	1450	1330	1240	1170	1090	980	890	
	240	350	2970	2090	2090	1980	1810	1680	1590	1470	1320	1190	
		450	6560	4420	4420	4170	3810	3540	3320	3060	2690	2370	
		600	12600	8820	8790	8270	7510	6920	6430	5790	4830	3870	
		700	20800	14400	14300	13400	12100	11100	10300	9100	7300	5400	
		200	597	396	396	375	344	321	303	283	258	239	
		250	1190	1020	1020	960	880	820	780	730	660	610	
		300	1540	1490	1490	1470	1350	1260	1190	1100	1000	920	
270	350	2970	2110	2110	2000	1830	1700	1610	1490	1340	1220		
	450	6560	4470	4460	4210	3850	3580	3370	3110	2770	2480		
	600	12600	8910	8890	8370	7620	7040	6570	5970	5090	4260		
	700	20800	14500	14500	13600	12300	11400	10500	9500	7800	6200		
	200	597	399	399	378	346	323	306	285	260	241		
	250	1190	1020	1020	970	890	830	780	730	670	620		
	300	1540	1500	1500	1480	1360	1270	1200	1110	1010	930		
300	350	3710	2780	2780	2630	2410	2250	2120	1970	1790	1650		
	450	6560	4500	4490	4250	3880	3620	3410	3150	2820	2550		
	600	12600	8970	8950	8440	7690	7130	6670	6100	5280	4540		
	700	20800	14600	14600	13700	12500	11500	10700	9700	8200	6800		
	200	597	401	401	380	348	325	308	287	262	243		
	250	1190	1030	1030	970	890	830	790	740	670	620		
	300	1540	1510	1510	1490	1360	1270	1200	1120	1020	940		
Option	350	3710	2790	2790	2640	2420	2260	2130	1990	1810	1670		
	450	6560	4520	4520	4270	3910	3640	3430	3180	2860	2600		
	600	12600	9020	9000	8500	7750	7200	6750	6190	5420	4740		
	700	20800	14700	14700	13800	12600	11700	10900	9900	8500	7200		
	200	597	401	401	380	348	325	308	287	262	243		
	250	1190	1030	1030	970	890	830	790	740	670	620		
	300	1540	1510	1510	1490	1360	1270	1200	1120	1020	940		
Parallel cam unit	80	300	350	3710	2780	2780	2630	2410	2250	2120	1970	1790	1650
			450	6560	4500	4490	4250	3880	3620	3410	3150	2820	2550
			600	12600	8970	8950	8440	7690	7130	6670	6100	5280	4540
			700	20800	14600	14600	13700	12500	11500	10700	9700	8200	6800
			200	597	401	401	380	348	325	308	287	262	243
			250	1190	1030	1030	970	890	830	790	740	670	620
			300	1540	1510	1510	1490	1360	1270	1200	1120	1020	940
Torque table	Option	330	350	3710	2790	2790	2640	2420	2260	2130	1990	1810	1670
			450	6560	4520	4520	4270	3910	3640	3430	3180	2860	2600
			600	12600	9020	9000	8500	7750	7200	6750	6190	5420	4740
			700	20800	14700	14700	13800	12600	11700	10900	9900	8500	7200
			200	597	401	401	380	348	325	308	287	262	243
			250	1190	1030	1030	970	890	830	790	740	670	620
			300	1540	1510	1510	1490	1360	1270	1200	1120	1020	940

Output torque table



Cam curve/MS

Product specifications		Oscillating angle (deg)	Total index angle (deg)	Size	Static rated output torque (N-m)	Dynamic rated output torque (N-m)								
						Input shaft rotational speed (rpm)								
						15	30	45	60	75	100	150	200	300
Roller gear cam unit	Small	180	240	063	19.1	7.99	7.27	6.20	5.54	5.07	4.52	3.82	3.36	2.71
				080	50.1	26.4	24.0	20.5	18.3	16.7	14.9	12.6	11.0	8.7
				110	129	55.1	50.1	42.7	38.1	34.8	30.9	25.8	22.2	16.5
				140	169	109	105	96	86	78	70	58	51	39
				180	568	273	248	211	188	172	152	125	105	
	250	1160	620	563	479	426	388	340	273					
	Standard	180	300	063	30.9	17.0	15.8	13.5	12.1	11.0	9.9	8.4	7.5	6.3
	080			50.1	29.9	27.8	23.7	21.2	19.4	17.3	14.7	13.0	10.6	
	110			140	98.1	96.1	87.9	78.5	71.9	64.1	54.3	47.9	39.2	
	140			272	197	191	163	145	133	119	100	89	72	
	180			568	306	284	242	216	198	176	147	127	96	
	250	1630	864	801	682	608	556	492	408	347				
	Wide angle	180	360	063	30.9	18.6	17.6	15.0	13.4	12.3	11.0	9.3	8.3	7.0
	080			50.1	32.6	30.7	26.2	23.4	21.5	19.2	16.3	14.5	12.1	
	110			140	107	106	97	87	80	71	60	54	44	
140	272			213	210	179	160	146	131	111	98	82		
180	710			432	407	348	310	284	253	214	188	151		
250	1630	928	875	746	666	609	541	454	393					
Parallel cam unit	Table	180	180	063	30.9	16.1	14.5	12.4	11.0	10.1	9.0	7.7	6.8	5.6
				080	50.1	28.3	25.5	21.8	19.4	17.8	15.8	13.3	11.6	9.2
				110	129	59.0	53.2	45.4	40.5	37.0	32.8	27.3	23.4	17.1
				140	248	153	138	118	105	96	85	71	62	47
				180	568	291	262	223	199	181	160	131	109	
	250	1630	822	741	630	561	510	448	359	289				
	Flat	120	240	063	30.9	18.6	17.2	14.7	13.2	12.1	10.8	9.2	8.1	6.8
				080	50.1	32.6	30.2	25.7	23.0	21.1	18.8	15.9	14.1	11.6
				110	140	107	104	95	85	78	70	59	52	43
				140	272	213	206	176	157	144	128	108	96	78
				180	710	432	400	341	304	278	248	208	181	140
	250	1630	928	859	732	653	596	528	438	374				
	Torque table	180	300	063	30.9	20.3	19.2	16.4	14.6	13.4	12.0	10.2	9.1	7.7
				080	50.1	35.3	33.4	28.5	25.5	23.3	20.8	17.7	15.7	13.2
				110	140	116	115	106	94	86	77	66	58	49
140				272	229	226	193	173	158	141	120	106	89	
180				710	465	439	375	335	306	273	231	203	164	
250	1630	993	938	800	714	654	581	488	425	330				
Torque table	180	360	063	30.9	21.5	20.3	17.6	15.7	14.4	12.9	11.0	9.8	8.3	
			080	50.1	37.2	35.2	30.5	27.2	25.0	22.3	19.0	16.9	14.2	
			110	140	122	122	113	101	93	83	70	63	53	
			140	272	240	238	206	184	168	150	128	114	96	
			180	710	486	460	398	356	326	291	247	218	180	
250	1630	1040	980	850	760	690	620	520	460	370				
Option	Standard	90	120	063	14.6	6.06	5.38	4.59	4.09	3.74	3.32	2.76	2.36	1.71
				080	23.7	10.0	8.9	7.6	6.7	6.1	5.4	4.3	3.4	1.8
				110	67.4	35.9	31.9	27.1	24.1	21.9	19.1	15.2	11.9	5.5
				140	148	68.3	60.7	51.6	45.9	41.7	36.6	29.2	23.3	11.8
				180	216	139	130	119	105	95	82	61	42	
	250	742	370	328	277	243	217	183	123	63				
	Torque table	180	180	063	19.1	9.91	9.06	7.73	6.90	6.32	5.64	4.78	4.22	3.46
				080	19.9	15.2	14.7	14.1	13.8	13.5	13.1	12.5	11.5	9.2
				110	91.5	59.4	54.3	46.3	41.3	37.8	33.6	28.1	24.4	18.7
				140	169	133	128	117	105	96	85	72	63	49
				180	345	272	259	221	197	180	159	132	112	79
	250	943	587	536	456	406	369	324	261	211				

Discontinue

Oscillators



Cam curve/MS

Oscillating angle (deg)	Total index angle (deg)	Size	Static rated output torque (N·m)	Dynamic rated output torque (N·m)								
				Input shaft rotational speed (rpm)								
				15	30	45	60	75	100	150	200	300
90	240	063	19.1	11.0	10.3	8.8	7.9	7.2	6.4	5.5	4.9	4.1
		080	19.9	16.8	16.7	16.1	15.6	15.3	14.9	14.3	13.3	11.0
		110	129	75.0	70.4	60.1	53.6	49.1	43.8	37.1	32.7	26.7
		140	169	145	144	132	118	108	96	82	72	59
		180	345	298	292	249	222	203	181	152	132	104
		250	1160	810	760	648	578	528	468	390	335	248
60	90	063	30.9	15.8	14.0	12.0	10.7	9.8	8.7	7.3	6.4	5.1
		080	50.1	27.8	24.7	21.1	18.8	17.2	15.2	12.6	10.7	7.6
		110	140	91.2	85.6	78.2	69.7	63.6	56.3	46.4	39.2	27.0
		140	272	183	170	145	129	118	104	86	72	49
		180	568	286	254	216	191	173	151	117	89	
		250	1630	808	716	608	537	485	417	310	213	
	120	063	30.9	18.6	16.7	14.3	12.7	11.7	10.4	8.8	7.8	6.4
		080	50.1	32.6	29.2	24.9	22.3	20.4	18.1	15.3	13.3	10.5
		110	140	107	101	92	83	75	67	56	49	38
		140	272	213	199	170	152	139	124	104	90	70
		180	710	432	387	330	294	268	237	196	165	112
		250	1630	928	832	708	629	573	503	404	324	
	180	063	30.9	21.5	20.0	17.1	15.2	14.0	12.5	10.6	9.5	8.0
		080	50.1	37.2	34.6	29.5	26.4	24.2	21.6	18.3	16.2	13.5
		110	140	122	120	109	98	90	80	68	60	50
		140	272	240	234	199	178	163	146	123	109	90
		180	710	486	452	386	345	315	281	237	207	164
		250	1630	1040	960	820	730	670	590	500	430	320
45	90	063	19.1	9.87	8.78	7.49	6.68	6.11	5.44	4.57	3.99	3.12
		080	19.9	15.1	14.2	13.7	13.3	13.0	12.6	11.9	10.7	8.0
		110	91.5	59.2	52.6	44.8	39.9	36.4	32.2	26.4	22.1	14.6
		140	169	132	124	113	101	92	82	68	58	41
		180	345	271	251	214	190	173	151	121	96	48
		250	943	584	518	440	389	351	303	227	159	
	120	063	19.1	11.0	10.0	8.5	7.6	7.0	6.2	5.3	4.7	3.8
		080	19.9	16.8	16.1	15.6	15.1	14.8	14.4	13.7	12.6	10.1
		110	129	75.0	68.2	58.2	51.9	47.5	42.2	35.4	30.8	23.7
		140	169	145	140	128	114	104	93	78	68	53
		180	568	362	329	281	250	228	202	168	142	101
		250	1160	810	736	626	557	508	447	363	297	177

Product specifications

Small
Standard
Wide angle
Foller gear cam unit
Table
Small multi-index
Flat
Torque table
Standard
Parallel cam unit
Torque table
Option

Output torque table

Reducer series

●RGCD flange shaft

Cam curve/CV

Product specifications		Reduction ratio	Total index angle (deg)	Size	Static rated output torque (N·m)	Dynamic rated output torque (N·m)								
						Input shaft rotational speed (rpm)								
						20	40	60	80	100	120	150	200	250
Small	Standard	8	360	200	646	556	556	556	547	512	484	453	416	389
				250	1290	1110	1110	1100	1010	940	890	830	760	710
				300	3180	2110	2110	2000	1830	1720	1620	1520	1390	1300
				350	4540	3120	3120	2950	2710	2530	2400	2240	2060	1920
				450	9470	5980	5980	5660	5190	4860	4600	4300	3950	3690
				600	17800	11100	11100	10500	9700	9000	8600	8000	7300	6900
				700	37000	15200	15200	14300	13200	12300	11700	10900	10000	9400
Wide angle	Table	10	360	200	646	584	584	584	574	537	509	476	436	408
				250	1290	1160	1160	1150	1060	990	930	870	800	750
				300	2540	1700	1700	1610	1480	1380	1310	1220	1120	1050
				350	3710	2590	2590	2450	2250	2100	1990	1860	1710	1600
				450	6560	4200	4200	3970	3640	3410	3230	3020	2770	2590
				600	12600	8370	8370	7920	7270	6800	6440	6020	5520	5160
				700	20800	13600	13600	12900	11800	11100	10500	9800	9000	8400
Small multi-index	Flat	12	360	200	1030	958	958	947	869	813	769	720	660	617
				250	2120	1460	1460	1380	1270	1180	1120	1050	960	900
				300	3890	2890	2890	2730	2510	2340	2220	2080	1900	1780
				350	6390	4200	4200	3970	3650	3410	3230	3020	2770	2590
				450	9470	6460	6460	6110	5610	5240	4970	4640	4260	3980
				600	31700	14000	14000	13300	12200	11400	10800	10100	9300	8700
				700	47800	30000	30000	28400	26000	24400	23100	21600	19800	18500
Torque table	Standard	15	360	200	646	616	616	616	606	567	536	502	460	430
				250	1290	1230	1230	1210	1110	1040	990	920	850	790
				300	3180	2340	2340	2210	2030	1900	1800	1680	1540	1440
				350	4540	3450	3450	3270	3000	2800	2660	2480	2280	2130
				450	8930	5470	5470	5170	4750	4440	4200	3930	3610	3370
				600	17800	12300	12300	11700	10700	10000	9500	8900	8100	7600
				700	37000	16800	16800	15900	14600	13600	12900	12100	11100	10400
Torque table	Standard	16	360	200	646	619	619	619	609	570	539	504	463	433
				250	1290	1230	1230	1220	1120	1050	990	930	850	790
				300	2540	1800	1800	1710	1570	1460	1390	1300	1190	1110
				350	3710	2750	2750	2600	2380	2230	2110	1970	1810	1690
				450	6560	4450	4450	4210	3860	3610	3420	3200	2930	2740
				600	17800	12400	12400	11700	10800	10100	9500	8900	8200	7700
				700	20800	14500	14500	13700	12600	11800	11100	10400	9500	8900
Torque table	Standard	18	360	200	597	398	398	377	346	323	306	286	262	245
				250	1190	1021	1021	967	887	830	785	735	674	630
				300	1540	1490	1490	1480	1350	1270	1200	1120	1030	960
				350	2970	2120	2120	2010	1840	1720	1630	1530	1400	1310
				450	6560	4480	4480	4250	3900	3640	3450	3230	2960	2770
				600	12600	8950	8950	8470	7770	7270	6880	6440	5900	5520
				700	20800	14600	14600	13800	12700	11900	11200	10500	9600	9000
Option	Standard	20	360	200	597	400	400	379	348	325	308	288	264	247
				250	806	785	785	785	772	722	683	639	586	548
				300	1540	1500	1500	1490	1360	1270	1210	1130	1040	970
				350	2970	2140	2140	2020	1850	1730	1640	1540	1410	1320
				450	4660	3620	3620	3430	3140	2940	2780	2600	2390	2230
				600	11900	7440	7440	7040	6460	6040	5720	5350	4910	4590
				700	14700	10510	10510	9950	9120	8530	8080	7560	6930	6480
Option	Standard	24	360	200	1690	1230	1230	1160	1070	1000	950	880	810	760
				250	2650	2000	2000	1900	1740	1630	1540	1440	1320	1240
				300	5470	3790	3790	3590	3290	3080	2920	2730	2500	2340
				350	8700	5470	5470	5180	4750	4440	4210	3940	3610	3380
				450	13300	9510	9510	9000	8260	7720	7310	6840	6270	5870