

# RO Series (flange type)

# Torque Capacity table

Oscillation Angle	Index Angle $\alpha$ (deg)	MYDEX Model Number	Cam Motion Law	No. of Rollers	Static Torque MI (N·m)	Dynamic torque Mr (N·m)								Inertia Torque Self-consumed Ma (N·m)
						Input Shaft Revolution (rpm)								
						30	40	50	60	75	100	150	200	
30	45	RO- 50F	MS	2	4.4	4.3	4.3	4.0	3.8	3.6	3.3	2.9	2.7	0.146
		RO- 63F			15.6	8.9	8.2	7.7	7.3	6.8	6.2	5.5	5.1	0.429
		RO- 70F			18.2	10.3	9.4	8.8	8.3	7.8	7.1	6.3	5.8	0.474
		RO- 80F			30.7	17.4	16.0	15.0	14.2	13.2	12.2	10.8	9.9	1.133
		RO- 90F			78.0	34.9	32.0	29.9	28.3	26.5	24.3	21.5	19.7	2.477
		RO- 108F			164.0	72.2	66.2	61.9	58.7	54.9	50.3	44.6	40.9	5.350
		RO- 140F			463.9	138.1	126.7	118.5	112.2	104.9	96.2	85.2	78.2	12.126
		RO- 152F			401.2	148.3	136.0	127.2	120.4	112.6	103.3	91.5	83.9	30.097
		RO- 178F			493.6	178.0	163.2	152.7	144.5	135.2	124.0	109.8	100.7	40.304
		RO- 200F			645.0	330.5	303.2	283.5	268.4	251.1	230.3	203.9	187.1	54.314
	RO- 254F	1468.8	629.7	577.6	540.2	511.5	478.3	438.8	388.5	356.4	170.882			
	60	RO- 50F	MS	2	11.7	7.0	6.4	6.0	5.7	5.3	4.9	4.3	4.0	0.082
		RO- 63F			52.8	24.8	22.7	21.3	20.1	18.8	17.3	15.3	14.0	0.241
		RO- 70F			55.3	25.8	23.7	22.2	21.0	19.6	18.0	15.9	14.6	0.267
		RO- 80F			68.2	31.4	28.8	26.9	25.5	23.8	21.9	19.4	17.8	0.637
		RO- 90F			216.2	85.4	78.3	73.3	69.4	64.9	59.5	52.7	48.3	1.394
		RO- 108F			394.4	121.4	111.4	104.1	98.6	92.2	84.6	74.9	68.7	3.010
		RO- 140F			844.3	230.9	211.8	198.1	187.6	175.4	160.9	142.5	130.7	6.823
		RO- 152F			1097.4	295.4	270.9	253.4	239.9	224.4	205.8	182.3	167.2	16.932
		RO- 178F			1350.8	358.1	328.5	307.2	290.8	272.0	249.5	220.9	202.7	22.674
		RO- 200F			2121.7	733.1	672.5	628.9	595.5	556.9	510.9	452.3	414.9	30.565
	RO- 254F	4262.2	1238.4	1136.0	1062.4	1005.9	940.7	863.0	764.1	700.9	96.147			
	75	RO- 50F	MS	2	18.7	11.5	10.6	9.9	9.4	8.8	8.0	7.1	6.5	0.053
		RO- 63F			52.8	25.1	23.0	21.5	20.4	19.1	17.5	15.5	14.2	0.154
		RO- 70F			57.7	27.2	25.0	23.4	22.1	20.7	19.0	16.8	15.4	0.171
		RO- 80F			200.8	79.9	73.3	68.6	64.9	60.7	55.7	49.3	45.2	0.408
		RO- 90F			324.8	101.6	93.2	87.2	82.6	77.2	70.8	62.7	57.5	0.892
		RO- 108F			718.4	198.0	181.6	169.9	160.8	150.4	138.0	122.2	112.1	1.928
		RO- 140F			666.4	315.7	289.6	270.9	256.4	239.8	220.0	194.8	178.7	4.369
		RO- 152F			1581.0	441.1	404.6	378.4	358.2	335.0	307.3	272.1	249.6	10.840
RO- 178F		1957.6			684.2	627.6	587.0	555.7	519.7	476.8	422.2	387.3	14.519	
RO- 200F		3348.9			994.4	912.2	853.1	807.7	755.4	692.9	613.6	562.8	19.572	
RO- 254F	8785.3	2744.2	2517.3	2354.3	2229.0	2084.7	1912.3	1693.3	1553.3	61.645				
90	RO- 50F	MS	2	18.7	11.6	10.7	10.0	9.4	8.8	8.1	7.2	6.6	0.037	
	RO- 63F			52.8	25.4	23.3	21.8	20.6	19.3	17.7	15.6	14.4	0.107	
	RO- 70F			55.3	26.4	24.2	22.6	21.4	20.0	18.4	16.3	14.9	0.118	

## Notes

- The dynamic rated output torque rigidity and whether backlash driven layout installation, a guide has been calculated at 10,000 hours life expectancy every normal state.
- Static rated output torque is the maximum permissible torque acting on the output shaft.
- Internal inertia torque output shaft in the self-inertia, input shaft speed value at 100rpm.

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Oscillation Angle	Index Angle $\alpha$ (deg)	MYDEX Model Number	Cam Motion Law	No. of Rollers	Static Torque MI (N·m)	Dynamic torque Mr (N·m)								Inertia Torque Self-consumed Ma (N·m)
						Input Shaft Revolution (rpm)								
						30	40	50	60	75	100	150	200	
30	90	RO- 80F	MS	2	200.8	80.9	74.2	69.4	65.7	61.5	56.4	49.9	45.8	0.283
		RO- 90F			324.8	102.8	94.3	88.2	83.5	78.1	71.6	63.4	58.2	0.620
		RO- 108F			718.4	200.3	183.7	171.8	162.7	152.2	139.6	123.6	113.4	1.339
		RO- 140F			1217.0	349.0	320.1	299.4	283.5	265.1	243.2	215.3	197.5	3.035
		RO- 152F			1591.1	564.3	517.6	484.1	458.3	428.7	393.2	348.2	319.4	7.531
		RO- 178F			3091.3	919.4	843.3	788.7	746.8	698.4	640.7	567.3	520.4	10.090
		RO- 200F			5654.2	1593.3	1461.6	1366.9	1294.2	1210.4	1110.3	983.1	901.8	13.625
		RO- 254F			8785.3	2769.3	2540.3	2375.8	2249.4	2103.7	1929.8	1708.7	1567.5	42.809
	120	RO- 50F	MS	2	18.7	11.7	10.8	10.1	9.5	8.9	8.2	7.2	6.7	0.021
		RO- 63F			52.8	25.7	23.6	22.0	20.9	19.5	17.9	15.8	14.5	0.060
		RO- 70F			55.3	26.6	24.4	22.9	21.6	20.2	18.6	16.4	15.1	0.067
		RO- 80F			200.8	82.2	75.4	70.5	66.8	62.4	57.3	50.7	46.5	0.159
		RO- 90F			324.8	104.2	95.6	89.4	84.7	79.2	72.6	64.3	59.0	0.349
		RO- 108F			718.4	203.3	186.5	174.4	165.1	154.4	141.7	125.4	115.1	0.753
		RO- 140F			1217.0	352.8	323.6	302.7	286.5	268.0	245.8	217.7	199.7	1.707
		RO- 152F			1591.1	574.5	527.0	492.8	466.6	436.4	400.3	354.5	325.2	4.236
	150	RO- 178F	MS	2	4535.0	1308.9	1200.7	1122.9	1063.2	994.3	912.1	807.6	740.9	5.686
		RO- 200F			5654.2	1622.8	1488.7	1392.3	1318.2	1232.8	1130.9	1001.4	918.6	7.664
		RO- 254F			12959.2	3808.5	3493.6	3267.3	3093.4	2893.1	2653.9	2350.0	2155.6	24.150
		RO- 50F			18.7	11.8	10.8	10.1	9.6	9.0	8.2	7.3	6.7	0.013
		RO- 63F			52.8	25.8	23.7	22.2	21.0	19.6	18.0	15.9	14.6	0.039
		RO- 70F			55.3	26.8	24.5	23.0	21.7	20.3	18.6	16.5	15.1	0.043
		RO- 80F			200.8	82.8	76.0	71.1	67.3	62.9	57.7	51.1	46.9	0.102
		RO- 90F			324.8	104.9	96.2	90.0	85.2	79.7	73.1	64.7	59.4	0.223
	180	RO- 108F	MS	2	718.4	204.7	187.8	175.6	166.3	155.5	142.6	126.3	115.9	0.482
		RO- 140F			1217.0	354.4	325.1	304.1	287.9	269.2	247.0	218.7	200.6	1.093
		RO- 152F			1591.1	579.7	531.8	497.3	470.9	440.4	404.0	357.7	328.1	2.711
		RO- 178F			4535.0	1323.9	1214.4	1135.8	1075.3	1005.7	922.5	816.9	749.3	3.639
		RO- 200F			5654.2	1638.7	1503.2	1405.9	1331.1	1244.9	1141.9	1011.1	927.5	4.905
		RO- 254F			12959.2	3846.7	3528.6	3300.1	3124.5	2922.2	2680.6	2373.5	2177.3	15.456
RO- 50F		18.7			11.8	10.8	10.1	9.6	8.9	8.2	7.3	6.7	0.008	
RO- 63F		52.8			25.7	23.6	22.1	20.9	19.6	17.9	15.9	14.6	0.024	
SH	RO- 70F	SH	2	55.3	26.6	24.4	22.8	21.6	20.2	18.6	16.4	15.1	0.026	
	RO- 80F			200.8	82.5	75.7	70.8	67.0	62.7	57.5	50.9	46.7	0.063	
	RO- 90F			324.8	104.4	95.8	89.6	84.8	79.3	72.8	64.4	59.1	0.138	
	RO- 108F			718.4	203.7	186.9	174.8	165.5	154.8	142.0	125.7	115.3	0.299	

## Notes

- The dynamic rated output torque rigidity and whether backlash driven layout installation, a guide has been calculated at 10,000 hours life expectancy every normal state.
- Static rated output torque is the maximum permissible torque acting on the output shaft.
- Internal inertia torque output shaft in the self-inertia, input shaft speed value at 100rpm.

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Oscillation Angle	Index Angle $\alpha$ (deg)	MYDEX Model Number	Cam Motion Law	No. of Rollers	Static Torque MI (N·m)	Dynamic torque Mr (N·m)								Inertia Torque Self-consumed Ma (N·m)
						Input Shaft Revolution (rpm)								
						30	40	50	60	75	100	150	200	
30	180	RO- 140F	SH	2	1217.0	352.5	323.3	302.4	286.3	267.8	245.6	217.5	199.5	0.677
		RO- 152F			1591.1	577.8	530.1	495.7	469.3	439.0	402.7	356.5	327.1	1.681
		RO- 178F			4535.0	1319.7	1210.6	1132.2	1071.9	1002.5	919.6	814.3	747.0	2.256
		RO- 200F			5654.2	1632.4	1497.4	1400.4	1325.9	1240.1	1137.5	1007.2	924.0	3.041
		RO- 254F			12959.2	3830.2	3513.5	3286.0	3111.1	2909.7	2669.1	2363.4	2168.0	9.581
45	60	RO- 50F	MS	2	11.7	6.8	6.2	5.8	5.5	5.2	4.7	4.2	3.8	0.123
		RO- 63F			15.6	8.8	8.0	7.5	7.1	6.7	6.1	5.4	5.0	0.362
		RO- 70F			24.5	13.9	12.8	12.0	11.3	10.6	9.7	8.6	7.9	0.400
		RO- 80F			30.7	17.1	15.7	14.7	13.9	13.0	11.9	10.5	9.7	0.956
		RO- 90F			78.0	34.0	31.2	29.2	27.6	25.8	23.7	21.0	19.2	2.090
		RO- 108F			164.0	70.5	64.7	60.5	57.2	53.5	49.1	43.5	39.9	4.514
		RO- 140F			372.3	196.1	179.9	168.2	159.3	149.0	136.6	121.0	111.0	10.233
		RO- 152F			603.1	172.1	157.9	147.7	139.8	130.8	119.9	106.2	97.4	25.395
		RO- 178F			741.4	206.4	189.3	177.0	167.6	156.8	143.8	127.3	116.8	34.007
		RO- 200F			1425.8	359.0	329.3	308.0	291.6	272.7	250.2	221.5	203.2	45.829
	RO- 254F	2688.7	873.3	801.0	749.2	709.3	663.4	608.5	538.8	494.3	144.195			
	75	MS	2	RO- 50F	18.7	11.2	10.2	9.6	9.1	8.5	7.8	6.9	6.3	0.079
				RO- 63F	52.8	24.3	22.2	20.8	19.7	18.4	16.9	15.0	13.7	0.231
				RO- 70F	57.7	26.3	24.2	22.6	21.4	20.0	18.4	16.3	14.9	0.256
				RO- 80F	124.9	55.8	51.2	47.9	45.3	42.4	38.9	34.4	31.6	0.612
				RO- 90F	216.2	83.7	76.7	71.8	68.0	63.6	58.3	51.6	47.4	1.338
				RO- 108F	394.4	118.9	109.1	102.0	96.6	90.3	82.8	73.4	67.3	2.890
				RO- 140F	844.3	227.1	208.3	194.8	184.4	172.5	158.2	140.1	128.5	6.550
				RO- 152F	1097.4	287.8	264.0	246.9	233.8	218.7	200.6	177.6	162.9	16.255
				RO- 178F	1075.6	469.8	430.9	403.0	381.6	356.9	327.4	289.9	265.9	21.770
				RO- 200F	2121.7	713.9	654.9	612.5	579.9	542.3	497.5	440.5	404.1	29.342
	RO- 254F	6253.1	1730.1	1587.1	1484.3	1405.3	1314.3	1205.6	1067.5	979.3	92.340			
	90	MS	2	RO- 50F	18.7	11.3	10.4	9.7	9.2	8.6	7.9	7.0	6.4	0.055
				RO- 63F	52.8	24.6	22.6	21.1	20.0	18.7	17.2	15.2	13.9	0.161
				RO- 70F	100.3	46.1	42.3	39.6	37.5	35.0	32.2	28.5	26.1	0.178
RO- 80F				200.8	78.5	72.0	67.3	63.8	59.6	54.7	48.4	44.4	0.425	
RO- 90F				324.8	100.0	91.7	85.8	81.2	75.9	69.7	61.7	56.6	0.929	
RO- 108F				718.4	195.0	178.8	167.3	158.4	148.1	135.9	120.3	110.3	2.008	
RO- 140F				1217.0	340.8	312.6	292.4	276.8	258.9	237.5	210.3	192.9	4.553	
RO- 152F				1581.0	431.9	396.2	370.6	350.8	328.1	301.0	266.5	244.5	11.292	
RO- 178F	1957.6	667.9	612.6	573.0	542.5	507.4	465.4	412.1	378.0	15.124				

## Notes

- The dynamic rated output torque rigidity and whether backlash driven layout installation, a guide has been calculated at 10,000 hours life expectancy every normal state.
- Static rated output torque is the maximum permissible torque acting on the output shaft.
- Internal inertia torque output shaft in the self-inertia, input shaft speed value at 100rpm.

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# Torque Capacity table

Oscillation Angle	Index Angle $\alpha$ (deg)	MYDEX Model Number	Cam Motion Law	No. of Rollers	Static Torque MI (N·m)	Dynamic torque Mr (N·m)								Inertia Torque Self-consumed Ma (N·m)
						Input Shaft Revolution (rpm)								
						30	40	50	60	75	100	150	200	
45	90	RO- 200F	MS	2	3348.9	972.8	892.4	834.6	790.2	739.0	677.9	600.3	550.6	20.388
		RO- 254F			7193.5	1991.8	1827.1	1708.8	1617.8	1513.1	1387.9	1229.0	1127.4	64.148
	120	RO- 50F	MS	2	42.9	20.5	18.8	17.6	16.6	15.6	14.3	12.6	11.6	0.031
		RO- 63F			95.7	45.0	41.3	38.6	36.6	34.2	31.4	27.8	25.5	0.091
		RO- 70F			163.9	65.9	60.5	56.6	53.6	50.1	45.9	40.7	37.3	0.100
		RO- 80F			242.1	133.4	122.4	114.5	108.4	101.4	93.0	82.3	75.5	0.240
		RO- 90F			598.4	163.8	150.3	140.6	133.1	124.5	114.2	101.1	92.7	0.524
		RO- 108F			1034.3	287.8	264.0	246.9	233.8	218.6	200.6	177.6	162.9	1.132
		RO- 140F			1224.7	440.7	404.2	378.0	357.9	334.7	307.1	271.9	249.4	2.563
		RO- 152F			2512.0	741.0	679.8	635.7	601.9	562.9	516.4	457.2	419.4	6.360
		RO- 178F			4535.0	1283.8	1177.7	1101.4	1042.8	975.3	894.6	792.2	726.7	8.529
		RO- 200F			5654.2	1590.4	1458.9	1364.5	1291.8	1208.2	1108.3	981.3	900.2	11.496
	RO- 254F	7193.5	2042.7	1873.8	1752.5	1659.2	1551.7	1423.4	1260.4	1156.2	36.083			
	150	RO- 50F	MS	2	42.9	20.8	19.1	17.8	16.9	15.8	14.5	12.8	11.8	0.020
		RO- 63F			95.7	45.5	41.7	39.0	37.0	34.6	31.7	28.1	25.8	0.058
		RO- 70F			163.9	66.8	61.3	57.3	54.3	50.8	46.6	41.2	37.8	0.064
		RO- 80F			242.1	134.5	123.4	115.4	109.3	102.2	93.7	83.0	76.1	0.153
		RO- 90F			598.4	166.1	152.4	142.5	134.9	126.2	115.7	102.5	94.0	0.335
		RO- 108F			1034.3	291.7	267.6	250.3	237.0	221.6	203.3	180.0	165.1	0.724
		RO- 140F			1224.7	445.5	408.6	382.2	361.8	338.4	310.4	274.9	252.1	1.641
		RO- 152F			3686.4	1055.7	968.4	905.7	857.5	802.0	735.6	651.4	597.5	4.080
		RO- 178F			6370.0	1883.8	1728.1	1616.2	1530.1	1431.1	1312.7	1162.4	1066.3	5.490
		RO- 200F			6902.7	2113.2	1938.5	1813.0	1716.5	1605.3	1472.6	1303.9	1196.1	7.381
	RO- 254F	12959.2	3805.5	3490.8	3264.8	3091.0	2890.9	2651.8	2348.1	2154.0	23.184			
	180	RO- 50F	SH	2	42.9	20.8	19.1	17.9	16.9	15.8	14.5	12.9	11.8	0.012
		RO- 63F			95.7	45.4	41.7	39.0	36.9	34.5	31.7	28.0	25.7	0.036
		RO- 70F			163.9	66.8	61.3	57.3	54.3	50.8	46.6	41.2	37.8	0.040
		RO- 80F			242.1	133.7	122.7	114.7	108.6	101.6	93.2	82.5	75.7	0.095
		RO- 90F			598.4	166.0	152.3	142.4	134.8	126.1	115.7	102.4	94.0	0.208
		RO- 108F			1034.3	291.5	267.4	250.1	236.8	221.4	203.1	179.9	165.0	0.449
RO- 140F		1224.7			444.8	408.0	381.6	361.3	337.9	310.0	274.5	251.8	1.017	
RO- 152F		3686.4			1046.3	959.8	897.6	849.9	794.8	729.1	645.6	592.2	2.529	
RO- 178F		6370.0			1875.0	1719.9	1608.6	1522.9	1424.3	1306.6	1156.9	1061.3	3.403	
RO- 200F		6902.7			2116.6	1941.5	1815.8	1719.2	1607.9	1474.9	1306.0	1198.0	4.576	
RO- 254F	12959.2	2882.4	2644.1	2472.9	2341.3	2189.7	2008.6	1778.6	1631.5	14.409				
60	75	RO- 50F	MS	3	11.7	6.0	5.5	5.2	4.9	4.6	4.2	3.7	3.4	0.105

## Notes

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- Internal inertia torque output shaft in the self-inertia, input shaft speed value at 100rpm.

# RO Series (flange type)

# Torque Capacity table

Oscillation Angle	Index Angle $\alpha$ (deg)	MYDEX Model Number	Cam Motion Law	No. of Rollers	Static Torque MI (N·m)	Dynamic torque Mr (N·m)								Inertia Torque Self-consumed Ma (N·m)
						Input Shaft Revolution (rpm)								
						30	40	50	60	75	100	150	200	
60	75	RO- 63F	MS	3	23.9	12.1	11.1	10.4	9.9	9.2	8.5	7.5	6.9	0.309
		RO- 70F			55.3	22.0	20.2	18.9	17.9	16.7	15.4	13.6	12.5	0.341
		RO- 80F			124.9	47.5	43.6	40.8	38.6	36.1	33.1	29.3	26.9	0.816
		RO- 90F			216.2	71.8	65.8	61.6	58.3	54.5	50.0	44.3	40.6	1.785
		RO- 108F			394.4	102.5	94.0	87.9	83.2	77.8	71.4	63.2	58.0	3.854
		RO- 140F			372.3	173.8	159.4	149.1	141.2	132.0	121.1	107.2	98.4	8.734
		RO- 152F			1097.4	245.1	224.8	210.3	199.1	186.2	170.8	151.2	138.7	21.676
		RO- 178F			1075.4	396.6	363.8	340.2	322.1	301.2	276.3	244.7	224.5	29.031
		RO- 200F			2121.7	606.5	556.3	520.3	492.6	460.7	422.6	374.2	343.3	39.134
	RO- 254F	4262.2	1024.9	940.2	879.3	832.5	778.6	714.2	632.4	580.1	123.090			
	90	RO- 50F	MS	3	18.7	9.8	9.0	8.4	8.0	7.4	6.8	6.0	5.5	0.073
		RO- 63F			52.8	21.1	19.4	18.1	17.2	16.1	14.7	13.0	12.0	0.214
		RO- 70F			100.3	39.3	36.0	33.7	31.9	29.8	27.4	24.2	22.2	0.237
		RO- 80F			200.8	66.4	60.9	57.0	53.9	50.4	46.3	41.0	37.6	0.567
		RO- 90F			324.8	85.8	78.7	73.6	69.7	65.2	59.8	53.0	48.6	1.240
		RO- 108F			316.8	147.4	135.2	126.4	119.7	112.0	102.7	90.9	83.4	2.678
		RO- 140F			666.4	267.3	245.2	229.4	217.2	203.1	186.3	165.0	151.3	6.071
		RO- 152F			1591.1	463.4	425.1	397.6	376.4	352.1	322.9	286.0	262.3	15.069
		RO- 178F			1957.6	562.6	516.1	482.7	457.0	427.4	392.1	347.2	318.5	20.173
	RO- 200F	3348.9	824.0	755.9	706.9	669.3	625.9	574.2	508.4	466.4	27.199			
	RO- 254F	6253.1	1488.4	1365.4	1277.0	1209.0	1130.7	1037.2	918.4	842.5	85.534			
	120	RO- 50F	MS	3	19.5	10.4	9.5	8.9	8.4	7.9	7.2	6.4	5.9	0.041
		RO- 63F			52.8	21.6	19.8	18.6	17.6	16.4	15.1	13.3	12.2	0.121
		RO- 70F			100.3	40.2	36.9	34.5	32.7	30.5	28.0	24.8	22.8	0.134
		RO- 80F			200.8	68.3	62.7	58.6	55.5	51.9	47.6	42.1	38.7	0.319
		RO- 90F			324.8	87.9	80.7	75.4	71.4	66.8	61.3	54.3	49.8	0.697
		RO- 108F			316.8	151.5	138.9	129.9	123.0	115.1	105.5	93.5	85.7	1.506
		RO- 140F			1217.0	301.3	276.4	258.5	244.8	228.9	210.0	185.9	170.6	3.417
		RO- 152F			1591.1	477.1	437.7	409.3	387.5	362.4	332.5	294.4	270.1	8.477
		RO- 178F			3090.1	770.6	706.9	661.1	625.9	585.4	537.0	475.5	436.2	11.360
RO- 200F	4915.0	1196.8	1097.8	1026.7	972.1	909.1	834.0	738.4	677.4	15.330				
RO- 254F	8785.3	2297.3	2107.3	1970.9	1866.0	1745.1	1600.8	1417.5	1300.3	48.213				
150	RO- 50F	MS	3	39.9	16.5	15.1	14.1	13.4	12.5	11.5	10.2	9.3	0.026	
	RO- 63F			95.7	37.9	34.8	32.6	30.8	28.8	26.4	23.4	21.5	0.077	
	RO- 70F			163.9	55.7	51.1	47.8	45.3	42.3	38.8	34.4	31.5	0.086	
	RO- 80F			301.6	81.0	74.3	69.5	65.8	61.5	56.4	50.0	45.8	0.204	

## Notes

- The dynamic rated output torque rigidity and whether backlash driven layout installation, a guide has been calculated at 10,000 hours life expectancy every normal state.
- Static rated output torque is the maximum permissible torque acting on the output shaft.
- Internal inertia torque output shaft in the self-inertia, input shaft speed value at 100rpm.

# RO Series (flange type)

# Torque Capacity table

Oscillation Angle	Index Angle $\alpha$ (deg)	MYDEX Model Number	Cam Motion Law	No. of Rollers	Static Torque MI (N·m)	Dynamic torque Mr (N·m)								Inertia Torque Self-consumed Ma (N·m)
						Input Shaft Revolution (rpm)								
						30	40	50	60	75	100	150	200	
60	150	RO- 90F	MS	3	260.7	123.1	112.9	105.6	100.0	93.5	85.8	75.9	69.7	0.447
		RO- 108F			566.4	224.2	205.7	192.4	182.1	170.3	156.2	138.3	126.9	0.966
		RO- 140F			1224.7	376.2	345.1	322.7	305.6	285.8	262.1	232.1	212.9	2.190
		RO- 152F			2512.0	640.2	587.3	549.2	520.0	486.3	446.1	395.0	362.4	5.433
		RO- 178F			4535.0	1101.1	1010.0	944.6	894.3	836.4	767.3	679.4	623.2	7.290
		RO- 200F			5654.2	1376.1	1262.4	1180.6	1117.8	1045.4	959.0	849.1	778.9	9.828
		RO- 254F			12959.2	3222.5	2956.1	2764.7	2617.5	2448.0	2245.6	1988.4	1824.0	30.992
	180	RO- 50F	SH	3	42.9	17.3	15.9	14.8	14.0	13.1	12.0	10.7	9.8	0.016
		RO- 63F			95.7	37.3	34.2	32.0	30.3	28.3	26.0	23.0	21.1	0.048
		RO- 70F			163.9	54.5	50.0	46.8	44.3	41.4	38.0	33.6	30.9	0.053
		RO- 80F			301.6	79.3	72.8	68.0	64.4	60.3	55.3	48.9	44.9	0.127
		RO- 90F			263.9	121.8	111.7	104.5	98.9	92.5	84.9	75.2	69.0	0.277
		RO- 108F			566.4	218.8	200.7	187.7	177.7	166.2	152.4	135.0	123.8	0.599
		RO- 140F			1224.7	366.2	336.0	314.2	297.5	278.2	255.2	226.0	207.3	1.358
		RO- 152F			2512.0	628.4	576.5	539.2	510.5	477.4	437.9	387.8	355.7	3.368
		RO- 178F			4535.0	1091.1	1000.9	936.1	886.3	828.9	760.3	673.3	617.6	4.519
		RO- 200F			5654.2	1354.7	1242.7	1162.2	1100.4	1029.1	944.0	835.9	766.8	6.093
		RO- 254F			12959.2	3176.6	2913.9	2725.2	2580.2	2413.1	2213.6	1960.0	1798.0	19.213
75	90	RO- 50F	MS	3	11.7	6.1	5.6	5.2	4.9	4.6	4.2	3.8	3.4	0.091
		RO- 63F			23.9	12.2	11.2	10.5	9.9	9.3	8.5	7.5	6.9	0.268
		RO- 70F			25.9	13.1	12.0	11.2	10.6	9.9	9.1	8.1	7.4	0.296
		RO- 80F			68.2	26.6	24.4	22.8	21.6	20.2	18.5	16.4	15.0	0.708
		RO- 90F			136.8	52.8	48.4	45.3	42.9	40.1	36.8	32.6	29.9	1.548
		RO- 108F			394.4	103.8	95.2	89.1	84.3	78.9	72.4	64.1	58.8	3.345
		RO- 140F			372.3	175.7	161.1	150.7	142.7	133.5	122.4	108.4	99.4	7.582
		RO- 152F			484.0	215.9	198.1	185.2	175.4	164.0	150.5	133.2	122.2	18.814
		RO- 178F			1350.8	294.2	269.9	252.4	239.0	223.5	205.0	181.6	166.5	25.196
		RO- 200F			2050.2	469.1	430.4	402.5	381.1	356.4	326.9	289.5	265.5	33.959
	RO- 254F	4262.2	1031.2	946.0	884.7	837.6	783.4	718.6	636.3	583.7	106.849			
	120	RO- 50F	MS	3	18.7	10.1	9.2	8.6	8.2	7.6	7.0	6.2	5.7	0.051
		RO- 63F			52.8	21.7	20.0	18.7	17.7	16.5	15.2	13.4	12.3	0.151
		RO- 70F			100.3	41.0	37.6	35.1	33.3	31.1	28.5	25.3	23.2	0.167
		RO- 80F			200.8	69.0	63.3	59.2	56.0	52.4	48.1	42.6	39.0	0.399
		RO- 90F			324.8	89.2	81.8	76.5	72.4	67.7	62.1	55.0	50.5	0.872
		RO- 108F			718.4	173.8	159.4	149.1	141.2	132.0	121.1	107.2	98.4	1.884
		RO- 140F			1217.0	307.5	282.1	263.8	249.8	233.6	214.3	189.7	174.0	4.271

## Notes

- The dynamic rated output torque rigidity and whether backlash driven layout installation, a guide has been calculated at 10,000 hours life expectancy every normal state.
- Static rated output torque is the maximum permissible torque acting on the output shaft.
- Internal inertia torque output shaft in the self-inertia, input shaft speed value at 100rpm.

# RO Series (flange type)

# Torque Capacity table

Oscillation Angle	Index Angle $\alpha$ (deg)	MYDEX Model Number	Cam Motion Law	No. of Rollers	Static Torque MI (N·m)	Dynamic torque Mr (N·m)								Inertia Torque Self-consumed Ma (N·m)
						Input Shaft Revolution (rpm)								
						30	40	50	60	75	100	150	200	
75	120	RO- 152F	MS	3	1591.1	479.0	439.4	410.9	389.1	363.9	333.8	295.5	271.1	10.596
		RO- 178F			3090.1	772.4	708.5	662.7	627.4	586.8	538.2	476.6	437.2	14.200
		RO- 200F			4915.0	1205.1	1105.4	1033.8	978.8	915.4	839.7	743.6	682.1	19.162
		RO- 254F			8785.3	2305.2	2114.5	1977.6	1872.4	1751.1	1606.3	1422.4	1304.7	60.267
	150	RO- 50F	MS	3	42.9	18.2	16.7	15.6	14.8	13.8	12.7	11.2	10.3	0.033
		RO- 63F			95.7	39.5	36.2	33.9	32.1	30.0	27.5	24.4	22.4	0.097
		RO- 70F			100.3	41.7	38.3	35.8	33.9	31.7	29.1	25.8	23.6	0.107
		RO- 80F			301.6	84.0	77.0	72.0	68.2	63.8	58.5	51.8	47.5	0.256
		RO- 90F			263.9	130.4	119.7	111.9	105.9	99.1	90.9	80.5	73.8	0.559
		RO- 108F			566.4	235.4	215.9	201.9	191.2	178.8	164.0	145.2	133.2	1.208
		RO- 140F			1224.7	395.6	362.9	339.4	321.3	300.5	275.7	244.1	223.9	2.738
		RO- 152F			2512.0	660.5	605.9	566.7	536.5	501.8	460.3	407.6	373.9	6.791
		RO- 178F			4535.0	1126.7	1033.5	966.6	915.1	855.9	785.1	695.2	637.7	9.112
		RO- 200F			5654.2	1416.0	1298.9	1214.8	1150.2	1075.7	986.7	873.7	801.5	12.285
	RO- 254F	8785.3	2382.6	2185.6	2044.1	1935.3	1810.0	1660.3	1470.1	1348.6	38.571			
	180	RO- 50F	SH	3	42.9	18.2	16.7	15.6	14.8	13.9	12.7	11.3	10.3	0.020
		RO- 63F			95.7	39.6	36.3	33.9	32.1	30.1	27.6	24.4	22.4	0.060
		RO- 70F			163.9	58.3	53.5	50.0	47.4	44.3	40.6	36.0	33.0	0.066
		RO- 80F			301.6	84.3	77.3	72.3	68.5	64.1	58.8	52.0	47.7	0.158
		RO- 90F			263.9	130.5	119.7	111.9	106.0	99.1	90.9	80.5	73.8	0.346
		RO- 108F			566.4	235.2	215.8	201.8	191.1	178.7	163.9	145.1	133.1	0.749
		RO- 140F			1224.7	389.3	357.1	333.9	316.2	295.7	271.3	240.2	220.3	1.697
		RO- 152F			2512.0	670.5	615.1	575.3	544.6	509.4	467.3	413.7	379.5	4.210
		RO- 178F			5214.9	1320.4	1211.2	1132.8	1072.5	1003.1	920.1	814.7	747.4	5.662
RO- 200F		6902.7			1900.5	1743.3	1630.4	1543.7	1443.7	1324.3	1172.7	1075.7	7.653	
RO- 254F	8785.3	2420.0	2219.9	2076.1	1965.6	1838.4	1686.3	1493.2	1369.7	23.910				
90	120	RO- 50F	MS	3	18.7	9.9	9.1	8.5	8.0	7.5	6.9	6.1	5.6	0.062
		RO- 63F			52.8	21.2	19.5	18.2	17.2	16.1	14.8	13.1	12.0	0.181
		RO- 70F			55.3	22.4	20.6	19.2	18.2	17.0	15.6	13.8	12.7	0.200
		RO- 80F			124.9	48.5	44.5	41.6	39.4	36.8	33.8	29.9	27.5	0.478
		RO- 90F			216.2	73.4	67.4	63.0	59.6	55.8	51.2	45.3	41.6	1.046
		RO- 108F			316.8	149.6	137.3	128.4	121.5	113.7	104.3	92.3	84.7	2.260
		RO- 140F			666.4	271.1	248.7	232.6	220.2	205.9	188.9	167.3	153.4	5.123
		RO- 152F			865.7	332.0	304.5	284.8	269.6	252.2	231.3	204.8	187.9	12.704
		RO- 178F			1957.6	562.6	516.1	482.6	457.0	427.4	392.0	347.1	318.4	17.021
		RO- 200F			3348.9	827.3	758.9	709.7	671.9	628.4	576.5	510.4	468.2	22.949

## Notes

- The dynamic rated output torque rigidity and whether backlash driven layout installation, a guide has been calculated at 10,000 hours life expectancy every normal state.
- Static rated output torque is the maximum permissible torque acting on the output shaft.
- Internal inertia torque output shaft in the self-inertia, input shaft speed value at 100rpm.

# RO Series (flange type)

# Torque Capacity table

Oscillation Angle	Index Angle $\alpha$ (deg)	MYDEX Model Number	Cam Motion Law	No. of Rollers	Static Torque MI (N·m)	Dynamic torque Mr (N·m)								Inertia Torque Self-consumed Ma (N·m)
						Input Shaft Revolution (rpm)								
						30	40	50	60	75	100	150	200	
90	120	RO- 254F	MS	3	6253.1	1486.0	1363.2	1274.9	1207.0	1128.9	1035.5	916.9	841.1	72.169
		RO- 50F			42.9	17.9	16.4	15.3	14.5	13.6	12.5	11.0	10.1	0.039
		RO- 63F			95.7	39.0	35.7	33.4	31.6	29.6	27.1	24.0	22.1	0.116
		RO- 70F			100.3	41.4	38.0	35.5	33.6	31.4	28.8	25.5	23.4	0.128
		RO- 80F			200.8	69.6	63.9	59.7	56.6	52.9	48.5	43.0	39.4	0.306
		RO- 90F			324.8	90.1	82.7	77.3	73.2	68.5	62.8	55.6	51.0	0.670
		RO- 108F			718.4	176.0	161.4	151.0	142.9	133.7	122.6	108.6	99.6	1.447
		RO- 140F			1224.7	395.1	362.5	339.0	321.0	300.2	275.4	243.8	223.7	3.285
		RO- 152F			1591.1	483.2	443.3	414.6	392.5	367.1	336.7	298.2	273.5	8.137
		RO- 178F			3091.3	777.5	713.2	667.0	631.5	590.6	541.8	479.8	440.1	10.906
	RO- 200F	4915.0	1215.1	1114.6	1042.5	987.0	923.1	846.7	749.8	687.8	14.717			
	RO- 254F	8785.3	2323.7	2131.5	1993.5	1887.4	1765.2	1619.2	1433.8	1315.2	46.285			
	180	RO- 50F	42.9	SH	3	18.5	17.0	15.9	15.0	14.0	12.9	11.4	10.5	0.024
		RO- 63F	95.7			40.2	36.9	34.5	32.6	30.5	28.0	24.8	22.7	0.072
		RO- 70F	163.9			59.7	54.7	51.2	48.5	45.3	41.6	36.8	33.8	0.080
		RO- 80F	242.1			121.6	111.5	104.3	98.8	92.4	84.7	75.0	68.8	0.191
		RO- 90F	598.4			151.7	139.1	130.1	123.2	115.2	105.7	93.6	85.8	0.416
		RO- 108F	1034.3			267.2	245.1	229.3	217.0	203.0	186.2	164.9	151.2	0.900
		RO- 140F	1224.7			399.1	366.1	342.4	324.2	303.2	278.1	246.3	225.9	2.037
		RO- 152F	3686.4			955.9	876.8	820.1	776.4	726.1	666.1	589.8	541.0	5.070
RO- 178F		5214.9	1321.4			1212.1	1133.6	1073.3	1003.8	920.8	815.3	747.9	6.795	
RO- 200F		6902.7	1922.3			1763.4	1649.2	1561.4	1460.3	1339.6	1186.1	1088.1	9.183	
RO- 254F	8785.3	2431.2	2230.2	2085.8	1974.8	1846.9	1694.2	1500.2	1376.1	28.693				
120	150	RO- 50F	MS	4	18.7	10.6	9.7	9.1	8.6	8.0	7.4	6.5	6.0	0.053
		RO- 63F			52.8	22.7	20.8	19.4	18.4	17.2	15.8	14.0	12.8	0.154
		RO- 70F			100.3	42.4	38.9	36.4	34.5	32.2	29.6	26.2	24.0	0.171
		RO- 80F			200.8	70.7	64.8	60.6	57.4	53.7	49.3	43.6	40.0	0.409
		RO- 90F			324.8	92.1	84.5	79.0	74.8	70.0	64.2	56.8	52.1	0.893
		RO- 108F			316.8	157.6	144.6	135.3	128.1	119.8	109.9	97.3	89.2	1.929
		RO- 140F			666.4	288.8	264.9	247.7	234.6	219.4	201.2	178.2	163.4	4.374
		RO- 152F			1581.0	390.1	357.8	334.7	316.9	296.3	271.8	240.7	220.8	10.847
		RO- 178F			1957.6	591.3	542.4	507.3	480.3	449.2	412.0	364.9	334.7	14.531
		RO- 200F			3348.9	871.7	799.7	747.9	708.1	662.2	607.5	537.9	493.4	19.595
	RO- 254F	6253.1	1568.5	1438.8	1345.7	1274.0	1191.5	1093.0	967.8	887.8	61.611			
	180	RO- 50F	SH	4	18.7	11.1	10.1	9.5	9.0	8.4	7.7	6.8	6.3	0.033
		RO- 63F			52.8	23.9	21.9	20.5	19.4	18.1	16.6	14.7	13.5	0.096

## Notes

- The dynamic rated output torque rigidity and whether backlash driven layout installation, a guide has been calculated at 10,000 hours life expectancy every normal state.
- Static rated output torque is the maximum permissible torque acting on the output shaft.
- Internal inertia torque output shaft in the self-inertia, input shaft speed value at 100rpm.



# RO Series (flange type)

# Torque Capacity table

Oscillation Angle	Index Angle $\alpha$ (deg)	MYDEX Model Number	Cam Motion Law	No. of Rollers	Static Torque <b>MI</b> (N·m)	Dynamic torque <b>Mr</b> (N·m)								Inertia Torque Self-consumed <b>Ma</b> (N·m)
						Input Shaft Revolution (rpm)								
						30	40	50	60	75	100	150	200	
120	180	RO- 70F	SH	4	100.3	44.6	40.9	38.2	36.2	33.9	31.1	27.5	25.2	0.106
		RO- 80F			200.8	75.2	69.0	64.5	61.1	57.1	52.4	46.4	42.6	0.253
		RO- 90F			324.8	97.7	89.6	83.8	79.3	74.2	68.1	60.3	55.3	0.554
		RO- 108F			316.8	167.2	153.3	143.4	135.8	127.0	116.5	103.1	94.6	1.196
		RO- 140F			666.4	301.6	276.6	258.7	244.9	229.1	210.1	186.1	170.7	2.712
		RO- 152F			1581.0	415.1	380.7	356.1	337.1	315.3	289.2	256.1	234.9	6.724
		RO- 178F			1957.6	631.5	579.3	541.8	513.0	479.8	440.1	389.7	357.5	9.008
		RO- 200F			3348.9	930.0	853.1	797.9	755.4	706.5	648.1	573.8	526.4	12.147
		RO- 254F			6253.1	1666.5	1528.7	1429.7	1353.6	1266.0	1161.3	1028.3	943.3	38.193
150	180	RO- 50F	SH	4	18.7	10.8	9.9	9.3	8.8	8.2	7.6	6.7	6.1	0.041
		RO- 63F			52.8	23.2	21.3	19.9	18.9	17.6	16.2	14.3	13.1	0.120
		RO- 70F			100.3	44.0	40.3	37.7	35.7	33.4	30.6	27.1	24.9	0.133
		RO- 80F			200.8	73.2	67.2	62.8	59.5	55.6	51.0	45.2	41.5	0.317
		RO- 90F			324.8	95.2	87.4	81.7	77.3	72.3	66.4	58.8	53.9	0.692
		RO- 108F			316.8	163.0	149.5	139.8	132.4	123.8	113.6	100.5	92.2	1.495
		RO- 140F			1217.0	331.6	304.2	284.5	269.3	251.9	231.1	204.6	187.7	3.392
		RO- 152F			1581.0	400.0	366.9	343.2	324.9	303.9	278.7	246.8	226.4	8.406
		RO- 178F			1957.6	604.0	554.1	518.2	490.6	458.8	420.9	372.7	341.9	11.260
		RO- 200F			3348.9	894.2	820.3	767.1	726.3	679.3	623.1	551.7	506.1	15.184
RO- 254F	6253.1	1604.3	1471.7	1376.4	1303.1	1218.7	1118.0	989.9	908.1	47.741				

## Notes

- The dynamic rated output torque rigidity and whether backlash driven layout installation, a guide has been calculated at 10,000 hours life expectancy every normal state.
- Static rated output torque is the maximum permissible torque acting on the output shaft.
- Internal inertia torque output shaft in the self-inertia, input shaft speed value at 100rpm.