

RO Series (shaft type)

Torque Capacity table

| Oscillation Angle | Index Angle α (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- 32S | MS | 2 | 2.8 | 2.7 | 2.7 | 2.7 | 2.6 | 2.4 | 2.2 | 1.9 | 1.8 | 0.011 |
| | | RO- 40S | | | 3.0 | 2.9 | 2.9 | 2.9 | 2.7 | 2.5 | 2.3 | 2.1 | 1.9 | 0.048 |
| | | RO- 50S | | | 12.3 | 7.3 | 6.7 | 6.3 | 6.0 | 5.6 | 5.1 | 4.5 | 4.2 | 0.146 |
| | | RO- 63S | | | 15.6 | 8.9 | 8.2 | 7.7 | 7.3 | 6.8 | 6.2 | 5.5 | 5.1 | 0.429 |
| | | RO- 70S | | | 27.7 | 16.1 | 14.7 | 13.8 | 13.1 | 12.2 | 11.2 | 9.9 | 9.1 | 0.474 |
| | | RO- 80S | | | 32.4 | 18.4 | 16.9 | 15.8 | 15.0 | 14.0 | 12.8 | 11.4 | 10.4 | 1.133 |
| | | RO- 108S | | | 164.0 | 72.2 | 66.2 | 61.9 | 58.7 | 54.9 | 50.3 | 44.6 | 40.9 | 3.503 |
| | 60 | RO- 32S | MS | 2 | 2.8 | 2.7 | 2.7 | 2.7 | 2.6 | 2.4 | 2.2 | 2.0 | 1.8 | 0.006 |
| | | RO- 40S | | | 3.0 | 2.9 | 2.9 | 2.9 | 2.8 | 2.6 | 2.4 | 2.1 | 1.9 | 0.027 |
| | | RO- 50S | | | 12.3 | 7.4 | 6.8 | 6.4 | 6.0 | 5.6 | 5.2 | 4.6 | 4.2 | 0.082 |
| | | RO- 63S | | | 52.8 | 24.8 | 22.7 | 21.3 | 20.1 | 18.8 | 17.3 | 15.3 | 14.0 | 0.241 |
| | | RO- 70S | | | 57.7 | 26.9 | 24.7 | 23.1 | 21.9 | 20.4 | 18.7 | 16.6 | 15.2 | 0.267 |
| | | RO- 80S | | | 68.2 | 31.4 | 28.8 | 26.9 | 25.5 | 23.8 | 21.9 | 19.4 | 17.8 | 0.637 |
| | 75 | RO- 108S | MS | 2 | 394.4 | 121.4 | 111.4 | 104.1 | 98.6 | 92.2 | 84.6 | 74.9 | 68.7 | 1.971 |
| | | RO- 32S | | | 2.8 | 2.8 | 2.8 | 2.8 | 2.6 | 2.5 | 2.3 | 2.0 | 1.8 | 0.004 |
| | | RO- 40S | | | 3.0 | 2.9 | 2.9 | 2.9 | 2.8 | 2.6 | 2.4 | 2.1 | 1.9 | 0.017 |
| | | RO- 50S | | | 19.5 | 12.0 | 11.0 | 10.3 | 9.7 | 9.1 | 8.3 | 7.4 | 6.8 | 0.053 |
| | | RO- 63S | | | 52.8 | 25.1 | 23.0 | 21.5 | 20.4 | 19.1 | 17.5 | 15.5 | 14.2 | 0.154 |
| | | RO- 70S | | | 57.7 | 27.2 | 25.0 | 23.4 | 22.1 | 20.7 | 19.0 | 16.8 | 15.4 | 0.171 |
| | | RO- 80S | | | 200.8 | 79.9 | 73.3 | 68.6 | 64.9 | 60.7 | 55.7 | 49.3 | 45.2 | 0.408 |
| | 90 | RO- 108S | MS | 2 | 718.4 | 198.0 | 181.6 | 169.9 | 160.8 | 150.4 | 138.0 | 122.2 | 112.1 | 1.263 |
| | | RO- 32S | | | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 | 2.5 | 2.3 | 2.0 | 1.9 | 0.003 |
| | | RO- 40S | | | 3.0 | 3.0 | 3.0 | 3.0 | 2.8 | 2.6 | 2.4 | 2.1 | 2.0 | 0.012 |
| | | RO- 50S | | | 19.5 | 12.1 | 11.1 | 10.4 | 9.8 | 9.2 | 8.4 | 7.5 | 6.9 | 0.037 |
| | | RO- 63S | | | 52.8 | 25.4 | 23.3 | 21.8 | 20.6 | 19.3 | 17.7 | 15.6 | 14.4 | 0.107 |
| | | RO- 70S | | | 57.7 | 27.5 | 25.2 | 23.6 | 22.3 | 20.9 | 19.2 | 17.0 | 15.6 | 0.118 |
| | | RO- 80S | | | 200.8 | 80.9 | 74.2 | 69.4 | 65.7 | 61.5 | 56.4 | 49.9 | 45.8 | 0.283 |
| | 120 | RO- 108S | MS | 2 | 718.4 | 200.3 | 183.7 | 171.8 | 162.7 | 152.2 | 139.6 | 123.6 | 113.4 | 0.877 |
| RO- 32S | | 2.8 | | | 2.8 | 2.8 | 2.8 | 2.7 | 2.5 | 2.3 | 2.0 | 1.9 | 0.002 | |
| RO- 40S | | 3.0 | | | 3.0 | 3.0 | 3.0 | 2.8 | 2.6 | 2.4 | 2.1 | 2.0 | 0.007 | |
| RO- 50S | | 19.5 | | | 12.3 | 11.2 | 10.5 | 10.0 | 9.3 | 8.5 | 7.6 | 6.9 | 0.021 | |
| RO- 63S | | 52.8 | | | 25.7 | 23.6 | 22.0 | 20.9 | 19.5 | 17.9 | 15.8 | 14.5 | 0.060 | |
| RO- 70S | | 57.7 | | | 27.8 | 25.5 | 23.8 | 22.6 | 21.1 | 19.4 | 17.2 | 15.7 | 0.067 | |
| RO- 80S | | 200.8 | | | 82.2 | 75.4 | 70.5 | 66.8 | 62.4 | 57.3 | 50.7 | 46.5 | 0.159 | |
| 150 | RO- 108S | MS | 2 | 718.4 | 203.3 | 186.5 | 174.4 | 165.1 | 154.4 | 141.7 | 125.4 | 115.1 | 0.493 | |
| | RO- 32S | | | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 | 2.5 | 2.3 | 2.0 | 1.9 | 0.001 | |

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 (shaft type)

Torque Capacity table

| Oscillation Angle | Index Angle α (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 | 150 | RO- 40S | MS | 2 | 3.0 | 3.0 | 3.0 | 3.0 | 2.8 | 2.6 | 2.4 | 2.2 | 2.0 | 0.004 | | | |
| | | RO- 50S | | | 19.5 | 12.3 | 11.3 | 10.6 | 10.0 | 9.4 | 8.6 | 7.6 | 7.0 | 0.013 | | | |
| | | RO- 63S | | | 52.8 | 25.8 | 23.7 | 22.2 | 21.0 | 19.6 | 18.0 | 15.9 | 14.6 | 0.039 | | | |
| | | RO- 70S | | | 57.7 | 27.9 | 25.6 | 24.0 | 22.7 | 21.2 | 19.5 | 17.2 | 15.8 | 0.043 | | | |
| | | RO- 80S | | | 200.8 | 82.8 | 76.0 | 71.1 | 67.3 | 62.9 | 57.7 | 51.1 | 46.9 | 0.102 | | | |
| | | RO- 108S | | | 718.4 | 204.7 | 187.8 | 175.6 | 166.3 | 155.5 | 142.6 | 126.3 | 115.9 | 0.316 | | | |
| | 180 | RO- 32S | SH | 2 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 | 2.5 | 2.3 | 2.0 | 1.9 | 0.001 | | | |
| | | RO- 40S | | | 3.0 | 3.0 | 3.0 | 3.0 | 2.8 | 2.6 | 2.4 | 2.1 | 2.0 | 0.003 | | | |
| | | RO- 50S | | | 19.5 | 12.3 | 11.3 | 10.5 | 10.0 | 9.3 | 8.6 | 7.6 | 6.9 | 0.008 | | | |
| | | RO- 63S | | | 52.8 | 25.7 | 23.6 | 22.1 | 20.9 | 19.6 | 17.9 | 15.9 | 14.6 | 0.024 | | | |
| | | RO- 70S | | | 57.7 | 27.8 | 25.5 | 23.9 | 22.6 | 21.1 | 19.4 | 17.2 | 15.8 | 0.026 | | | |
| | | RO- 80S | | | 200.8 | 82.5 | 75.7 | 70.8 | 67.0 | 62.7 | 57.5 | 50.9 | 46.7 | 0.063 | | | |
| | 45 | 60 | RO- 32S | MS | 2 | 2.8 | 2.6 | 2.8 | 2.6 | 2.5 | 2.3 | 2.1 | 1.9 | 1.7 | 0.009 | | |
| | | | RO- 40S | | | 3.0 | 2.8 | 3.0 | 2.8 | 2.7 | 2.5 | 2.3 | 2.0 | 1.9 | 0.041 | | |
| RO- 50S | | | 12.3 | | | 7.1 | 6.6 | 6.1 | 5.8 | 5.4 | 5.0 | 4.4 | 4.0 | 0.123 | | | |
| RO- 63S | | | 15.6 | | | 8.8 | 8.0 | 7.5 | 7.1 | 6.7 | 6.1 | 5.4 | 5.0 | 0.362 | | | |
| RO- 70S | | | 30.6 | | | 17.2 | 15.8 | 14.8 | 14.0 | 13.1 | 12.0 | 10.6 | 9.8 | 0.400 | | | |
| RO- 80S | | | 32.4 | | | 18.0 | 16.5 | 15.4 | 14.6 | 13.6 | 12.5 | 11.1 | 10.2 | 0.956 | | | |
| RO- 108S | | | 164.0 | | | 70.5 | 64.7 | 60.5 | 57.2 | 53.5 | 49.1 | 43.5 | 39.9 | 2.955 | | | |
| RO- 32S | | | MS | | | 2 | 2.8 | 2.7 | 2.7 | 2.7 | 2.5 | 2.4 | 2.2 | 1.9 | 1.8 | 0.006 | |
| RO- 40S | | 9.4 | | 5.7 | 5.2 | | 4.9 | 4.6 | 4.3 | 4.0 | 3.5 | 3.2 | 0.026 | | | | |
| RO- 50S | | 19.5 | | 11.6 | 10.6 | | 9.9 | 9.4 | 8.8 | 8.1 | 7.1 | 6.6 | 0.079 | | | | |
| RO- 63S | | 52.8 | | 24.3 | 22.2 | | 20.8 | 19.7 | 18.4 | 16.9 | 15.0 | 13.7 | 0.231 | | | | |
| RO- 70S | | 57.7 | | 26.3 | 24.2 | | 22.6 | 21.4 | 20.0 | 18.4 | 16.3 | 14.9 | 0.256 | | | | |
| RO- 80S | | 124.9 | | 55.8 | 51.2 | | 47.9 | 45.3 | 42.4 | 38.9 | 34.4 | 31.6 | 0.612 | | | | |
| RO- 108S | | 394.4 | | 118.9 | 109.1 | | 102.0 | 96.6 | 90.3 | 82.8 | 73.4 | 67.3 | 1.892 | | | | |
| 90 | | RO- 32S | | MS | 2 | | 2.8 | 2.7 | 2.7 | 2.7 | 2.6 | 2.4 | 2.2 | 2.0 | 1.8 | 0.004 | |
| | | RO- 40S | 9.4 | | | 5.7 | 5.3 | 4.9 | 4.7 | 4.4 | 4.0 | 3.5 | 3.3 | 0.018 | | | |
| | | RO- 50S | 19.5 | | | 11.7 | 10.8 | 10.1 | 9.5 | 8.9 | 8.2 | 7.2 | 6.7 | 0.055 | | | |
| | | RO- 63S | 52.8 | | | 24.6 | 22.6 | 21.1 | 20.0 | 18.7 | 17.2 | 15.2 | 13.9 | 0.161 | | | |
| | | RO- 70S | 105.8 | | | 48.8 | 44.7 | 41.8 | 39.6 | 37.0 | 34.0 | 30.1 | 27.6 | 0.178 | | | |
| | | RO- 80S | 200.8 | | | 78.5 | 72.0 | 67.3 | 63.8 | 59.6 | 54.7 | 48.4 | 44.4 | 0.425 | | | |
| | | RO- 108S | 718.4 | | | 195.0 | 178.8 | 167.3 | 158.4 | 148.1 | 135.9 | 120.3 | 110.3 | 1.316 | | | |
| | | 120 | RO- 32S | | | MS | 2 | 2.8 | 2.8 | 2.8 | 2.8 | 2.6 | 2.5 | 2.3 | 2.0 | 1.8 | 0.002 |
| | | | RO- 40S | | | | | 9.4 | 5.8 | 5.3 | 5.0 | 4.7 | 4.4 | 4.1 | 3.6 | 3.3 | 0.010 |

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 (shaft type)

Torque Capacity table

| Oscillation Angle | Index Angle α (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 | 120 | RO- 50S | MS | 2 | 41.7 | 20.0 | 18.3 | 17.1 | 16.2 | 15.2 | 13.9 | 12.3 | 11.3 | 0.031 |
| | | RO- 63S | | | 95.7 | 45.0 | 41.3 | 38.6 | 36.6 | 34.2 | 31.4 | 27.8 | 25.5 | 0.091 |
| | | RO- 70S | | | 170.3 | 68.1 | 62.5 | 58.4 | 55.3 | 51.8 | 47.5 | 42.0 | 38.6 | 0.100 |
| | | RO- 80S | | | 242.1 | 133.4 | 122.4 | 114.5 | 108.4 | 101.4 | 93.0 | 82.3 | 75.5 | 0.240 |
| | | RO- 108S | | | 1034.3 | 287.8 | 264.0 | 246.9 | 233.8 | 218.6 | 200.6 | 177.6 | 162.9 | 0.742 |
| | 150 | RO- 32S | MS | 2 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 | 2.5 | 2.3 | 2.0 | 1.9 | 0.002 |
| | | RO- 40S | | | 9.4 | 5.9 | 5.4 | 5.0 | 4.8 | 4.5 | 4.1 | 3.6 | 3.3 | 0.007 |
| | | RO- 50S | | | 41.7 | 20.3 | 18.6 | 17.4 | 16.5 | 15.4 | 14.1 | 12.5 | 11.5 | 0.020 |
| | | RO- 63S | | | 95.7 | 45.5 | 41.7 | 39.0 | 37.0 | 34.6 | 31.7 | 28.1 | 25.8 | 0.058 |
| | | RO- 70S | | | 170.3 | 69.1 | 63.4 | 59.3 | 56.2 | 52.5 | 48.2 | 42.7 | 39.1 | 0.064 |
| | | RO- 80S | | | 242.1 | 134.5 | 123.4 | 115.4 | 109.3 | 102.2 | 93.7 | 83.0 | 76.1 | 0.153 |
| | 180 | RO- 108S | SH | 2 | 1034.3 | 291.7 | 267.6 | 250.3 | 237.0 | 221.6 | 203.3 | 180.0 | 165.1 | 0.475 |
| | | RO- 32S | | | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 | 2.5 | 2.3 | 2.0 | 1.9 | 0.001 |
| | | RO- 40S | | | 9.4 | 5.9 | 5.4 | 5.0 | 4.8 | 4.5 | 4.1 | 3.6 | 3.3 | 0.004 |
| | | RO- 50S | | | 41.7 | 20.3 | 18.6 | 17.4 | 16.5 | 15.4 | 14.1 | 12.5 | 11.5 | 0.012 |
| | | RO- 63S | | | 95.7 | 45.4 | 41.7 | 39.0 | 36.9 | 34.5 | 31.7 | 28.0 | 25.7 | 0.036 |
| | | RO- 70S | | | 170.3 | 69.2 | 63.5 | 59.4 | 56.2 | 52.6 | 48.2 | 42.7 | 39.2 | 0.040 |
| | | RO- 80S | | | 242.1 | 133.7 | 122.7 | 114.7 | 108.6 | 101.6 | 93.2 | 82.5 | 75.7 | 0.095 |
| 60 | 75 | RO- 108S | MS | 3 | 1034.3 | 291.5 | 267.4 | 250.1 | 236.8 | 221.4 | 203.1 | 179.9 | 165.0 | 0.294 |
| | | RO- 32S | | | 2.8 | 2.7 | 2.5 | 2.3 | 2.2 | 2.0 | 1.9 | 1.7 | 1.5 | 0.008 |
| | | RO- 40S | | | 3.0 | 2.9 | 2.7 | 2.5 | 2.4 | 2.2 | 2.0 | 1.8 | 1.7 | 0.035 |
| | | RO- 50S | | | 12.3 | 6.3 | 5.8 | 5.4 | 5.1 | 4.8 | 4.4 | 3.9 | 3.6 | 0.105 |
| | | RO- 63S | | | 23.5 | 12.0 | 11.0 | 10.3 | 9.7 | 9.1 | 8.3 | 7.4 | 6.8 | 0.309 |
| | | RO- 70S | | | 57.7 | 22.7 | 20.8 | 19.5 | 18.4 | 17.3 | 15.8 | 14.0 | 12.9 | 0.341 |
| | | RO- 80S | | | 124.9 | 47.5 | 43.6 | 40.8 | 38.6 | 36.1 | 33.1 | 29.3 | 26.9 | 0.816 |
| | 90 | RO- 108S | MS | 3 | 394.4 | 102.5 | 94.0 | 87.9 | 83.2 | 77.8 | 71.4 | 63.2 | 58.0 | 2.524 |
| | | RO- 32S | | | 2.8 | 2.7 | 2.5 | 2.3 | 2.2 | 2.1 | 1.9 | 1.7 | 1.5 | 0.006 |
| | | RO- 40S | | | 9.0 | 4.8 | 4.4 | 4.1 | 3.9 | 3.7 | 3.4 | 3.0 | 2.7 | 0.024 |
| | | RO- 50S | | | 19.5 | 10.1 | 9.3 | 8.7 | 8.2 | 7.7 | 7.0 | 6.2 | 5.7 | 0.073 |
| | | RO- 63S | | | 52.8 | 21.1 | 19.4 | 18.1 | 17.2 | 16.1 | 14.7 | 13.0 | 12.0 | 0.214 |
| | | RO- 70S | | | 105.8 | 41.0 | 37.6 | 35.2 | 33.3 | 31.1 | 28.6 | 25.3 | 23.2 | 0.237 |
| | | RO- 80S | | | 200.8 | 66.4 | 60.9 | 57.0 | 53.9 | 50.4 | 46.3 | 41.0 | 37.6 | 0.567 |
| | 120 | RO- 108S | MS | 3 | 316.8 | 147.4 | 135.2 | 126.4 | 119.7 | 112.0 | 102.7 | 90.9 | 83.4 | 1.755 |
| | | RO- 32S | | | 2.8 | 2.8 | 2.5 | 2.4 | 2.3 | 2.1 | 1.9 | 1.7 | 1.6 | 0.003 |
| | | RO- 40S | | | 9.4 | 5.0 | 4.6 | 4.3 | 4.1 | 3.8 | 3.5 | 3.1 | 2.9 | 0.014 |
| | | | RO- 50S | | | 19.5 | 10.4 | 9.5 | 8.9 | 8.4 | 7.9 | 7.2 | 6.4 | 5.9 |

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 (shaft type)

Torque Capacity table

| Oscillation Angle | Index Angle α (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 | 120 | RO- 63S | MS | 3 | 52.8 | 21.6 | 19.8 | 18.6 | 17.6 | 16.4 | 15.1 | 13.3 | 12.2 | 0.121 |
| | | RO- 70S | | | 105.8 | 42.1 | 38.6 | 36.1 | 34.2 | 32.0 | 29.3 | 26.0 | 23.8 | 0.134 |
| | | RO- 80S | | | 200.8 | 68.3 | 62.7 | 58.6 | 55.5 | 51.9 | 47.6 | 42.1 | 38.7 | 0.319 |
| | | RO- 108S | | | 316.8 | 151.5 | 138.9 | 129.9 | 123.0 | 115.1 | 105.5 | 93.5 | 85.7 | 0.987 |
| | 150 | RO- 32S | MS | 3 | 2.8 | 2.8 | 2.6 | 2.4 | 2.3 | 2.1 | 1.9 | 1.7 | 1.6 | 0.002 |
| | | RO- 40S | | | 9.4 | 5.0 | 4.6 | 4.3 | 4.1 | 3.8 | 3.5 | 3.1 | 2.8 | 0.009 |
| | | RO- 50S | | | 41.7 | 17.2 | 15.7 | 14.7 | 13.9 | 13.0 | 12.0 | 10.6 | 9.7 | 0.026 |
| | | RO- 63S | | | 95.7 | 37.9 | 34.8 | 32.6 | 30.8 | 28.8 | 26.4 | 23.4 | 21.5 | 0.077 |
| | | RO- 70S | | | 170.3 | 57.8 | 53.0 | 49.6 | 46.9 | 43.9 | 40.3 | 35.7 | 32.7 | 0.086 |
| | | RO- 80S | | | 301.6 | 81.0 | 74.3 | 69.5 | 65.8 | 61.5 | 56.4 | 50.0 | 45.8 | 0.204 |
| | RO- 108S | 566.4 | 224.2 | 205.7 | 192.4 | 182.1 | 170.3 | 156.2 | 138.3 | 126.9 | 0.634 | | | |
| | 180 | RO- 32S | SH | 3 | 2.8 | 2.7 | 2.5 | 2.4 | 2.2 | 2.1 | 1.9 | 1.7 | 1.6 | 0.001 |
| | | RO- 40S | | | 9.4 | 4.9 | 4.5 | 4.2 | 4.0 | 3.7 | 3.4 | 3.0 | 2.8 | 0.005 |
| | | RO- 50S | | | 41.7 | 16.8 | 15.4 | 14.4 | 13.7 | 12.8 | 11.7 | 10.4 | 9.5 | 0.016 |
| | | RO- 63S | | | 95.7 | 37.3 | 34.2 | 32.0 | 30.3 | 28.3 | 26.0 | 23.0 | 21.1 | 0.048 |
| | | RO- 70S | | | 170.3 | 56.6 | 51.9 | 48.6 | 46.0 | 43.0 | 39.5 | 34.9 | 32.0 | 0.053 |
| | | RO- 80S | | | 301.6 | 79.3 | 72.8 | 68.0 | 64.4 | 60.3 | 55.3 | 48.9 | 44.9 | 0.127 |
| | RO- 108S | 566.4 | 218.8 | 200.7 | 187.7 | 177.7 | 166.2 | 152.4 | 135.0 | 123.8 | 0.393 | | | |
| 75 | 90 | RO- 32S | MS | 3 | 2.8 | 2.7 | 2.5 | 2.3 | 2.2 | 2.1 | 1.9 | 1.7 | 1.5 | 0.007 |
| | | RO- 40S | | | 3.0 | 3.0 | 2.7 | 2.5 | 2.4 | 2.2 | 2.1 | 1.8 | 1.7 | 0.030 |
| | | RO- 50S | | | 12.3 | 6.4 | 5.8 | 5.5 | 5.2 | 4.8 | 4.4 | 3.9 | 3.6 | 0.091 |
| | | RO- 63S | | | 23.5 | 12.0 | 11.0 | 10.3 | 9.8 | 9.2 | 8.4 | 7.4 | 6.8 | 0.268 |
| | | RO- 70S | | | 30.6 | 14.8 | 13.6 | 12.7 | 12.0 | 11.2 | 10.3 | 9.1 | 8.4 | 0.296 |
| | | RO- 80S | | | 68.2 | 26.6 | 24.4 | 22.8 | 21.6 | 20.2 | 18.5 | 16.4 | 15.0 | 0.708 |
| | RO- 108S | 394.4 | 103.8 | 95.2 | 89.1 | 84.3 | 78.9 | 72.4 | 64.1 | 58.8 | 2.191 | | | |
| | 120 | RO- 32S | MS | 3 | 2.8 | 2.8 | 2.6 | 2.4 | 2.3 | 2.1 | 2.0 | 1.7 | 1.6 | 0.004 |
| | | RO- 40S | | | 9.4 | 5.1 | 4.7 | 4.4 | 4.2 | 3.9 | 3.6 | 3.2 | 2.9 | 0.017 |
| | | RO- 50S | | | 19.5 | 10.4 | 9.5 | 8.9 | 8.4 | 7.9 | 7.2 | 6.4 | 5.9 | 0.051 |
| | | RO- 63S | | | 52.8 | 21.7 | 20.0 | 18.7 | 17.7 | 16.5 | 15.2 | 13.4 | 12.3 | 0.151 |
| | | RO- 70S | | | 105.8 | 42.6 | 39.1 | 36.6 | 34.6 | 32.4 | 29.7 | 26.3 | 24.1 | 0.167 |
| | | RO- 80S | | | 200.8 | 69.0 | 63.3 | 59.2 | 56.0 | 52.4 | 48.1 | 42.6 | 39.0 | 0.399 |
| | RO- 108S | 718.4 | 173.8 | 159.4 | 149.1 | 141.2 | 132.0 | 121.1 | 107.2 | 98.4 | 1.235 | | | |
| | 150 | RO- 32S | MS | 3 | 2.8 | 2.5 | 2.6 | 2.5 | 2.3 | 2.2 | 2.0 | 1.8 | 1.6 | 0.003 |
| | | RO- 40S | | | 9.4 | 5.2 | 4.7 | 4.4 | 4.2 | 3.9 | 3.6 | 3.2 | 2.9 | 0.011 |
| | | RO- 50S | | | 41.7 | 17.8 | 16.3 | 15.2 | 14.4 | 13.5 | 12.4 | 11.0 | 10.1 | 0.033 |
| | | RO- 63S | | | 95.7 | 39.5 | 36.2 | 33.9 | 32.1 | 30.0 | 27.5 | 24.4 | 22.4 | 0.097 |

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 (shaft type)

Torque Capacity table

| Oscillation Angle | Index Angle α (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 | 150 | RO- 70S | MS | 3 | 105.8 | 43.6 | 40.0 | 37.4 | 35.4 | 33.1 | 30.4 | 26.9 | 24.7 | 0.107 | |
| | | RO- 80S | | | 301.6 | 84.0 | 77.0 | 72.0 | 68.2 | 63.8 | 58.5 | 51.8 | 47.5 | 0.256 | |
| | | RO- 108S | | | 566.4 | 235.4 | 215.9 | 201.9 | 191.2 | 178.8 | 164.0 | 145.2 | 133.2 | 0.792 | |
| | 180 | RO- 32S | SH | 3 | 2.8 | 2.4 | 2.6 | 2.4 | 2.3 | 2.2 | 2.0 | 1.8 | 1.6 | 0.002 | |
| | | RO- 40S | | | 9.4 | 5.1 | 4.7 | 4.4 | 4.1 | 3.9 | 3.6 | 3.2 | 2.9 | 0.007 | |
| | | RO- 50S | | | 41.7 | 17.7 | 16.3 | 15.2 | 14.4 | 13.5 | 12.4 | 10.9 | 10.0 | 0.020 | |
| | | RO- 63S | | | 95.7 | 39.6 | 36.3 | 33.9 | 32.1 | 30.1 | 27.6 | 24.4 | 22.4 | 0.060 | |
| | | RO- 70S | | | 170.3 | 60.5 | 55.5 | 51.9 | 49.2 | 46.0 | 42.2 | 37.4 | 34.3 | 0.066 | |
| | | RO- 80S | | | 301.6 | 84.3 | 77.3 | 72.3 | 68.5 | 64.1 | 58.8 | 52.0 | 47.7 | 0.158 | |
| | RO- 108S | 566.4 | 235.2 | 215.8 | 201.8 | 191.1 | 178.7 | 163.9 | 145.1 | 133.1 | 0.491 | | | | |
| | 90 | 120 | RO- 32S | MS | 3 | 2.8 | 2.7 | 2.5 | 2.3 | 2.2 | 2.1 | 1.9 | 1.7 | 1.5 | 0.005 |
| | | | RO- 40S | | | 9.4 | 5.0 | 4.6 | 4.3 | 4.1 | 3.8 | 3.5 | 3.1 | 2.9 | 0.020 |
| RO- 50S | | | 19.5 | | | 10.1 | 9.3 | 8.7 | 8.2 | 7.7 | 7.1 | 6.3 | 5.7 | 0.062 | |
| RO- 63S | | | 52.8 | | | 21.2 | 19.5 | 18.2 | 17.2 | 16.1 | 14.8 | 13.1 | 12.0 | 0.181 | |
| RO- 70S | | | 57.7 | | | 23.1 | 21.2 | 19.8 | 18.8 | 17.5 | 16.1 | 14.3 | 13.1 | 0.200 | |
| RO- 80S | | | 124.9 | | | 48.5 | 44.5 | 41.6 | 39.4 | 36.8 | 33.8 | 29.9 | 27.5 | 0.478 | |
| RO- 108S | | | 316.8 | | | 149.6 | 137.3 | 128.4 | 121.5 | 113.7 | 104.3 | 92.3 | 84.7 | 1.480 | |
| 150 | | RO- 32S | MS | 3 | 2.8 | 2.8 | 2.6 | 2.4 | 2.3 | 2.1 | 2.0 | 1.7 | 1.6 | 0.003 | |
| | | RO- 40S | | | 9.4 | 5.2 | 4.7 | 4.4 | 4.2 | 3.9 | 3.6 | 3.2 | 2.9 | 0.013 | |
| | | RO- 50S | | | 41.7 | 17.5 | 16.1 | 15.0 | 14.2 | 13.3 | 12.2 | 10.8 | 9.9 | 0.039 | |
| | | RO- 63S | | | 95.7 | 39.0 | 35.7 | 33.4 | 31.6 | 29.6 | 27.1 | 24.0 | 22.1 | 0.116 | |
| | | RO- 70S | | | 105.8 | 43.0 | 39.5 | 36.9 | 34.9 | 32.7 | 30.0 | 26.5 | 24.3 | 0.128 | |
| | | RO- 80S | | | 200.8 | 69.6 | 63.9 | 59.7 | 56.6 | 52.9 | 48.5 | 43.0 | 39.4 | 0.306 | |
| | | RO- 108S | | | 718.4 | 176.0 | 161.4 | 151.0 | 142.9 | 133.7 | 122.6 | 108.6 | 99.6 | 0.948 | |
| 180 | | RO- 32S | SH | 3 | 2.8 | 2.5 | 2.6 | 2.5 | 2.3 | 2.2 | 2.0 | 1.8 | 1.6 | 0.002 | |
| | | RO- 40S | | | 9.4 | 5.2 | 4.8 | 4.5 | 4.2 | 3.9 | 3.6 | 3.2 | 2.9 | 0.008 | |
| | | RO- 50S | | | 41.7 | 18.0 | 16.5 | 15.5 | 14.6 | 13.7 | 12.6 | 11.1 | 10.2 | 0.024 | |
| | | RO- 63S | | | 95.7 | 40.2 | 36.9 | 34.5 | 32.6 | 30.5 | 28.0 | 24.8 | 22.7 | 0.072 | |
| | RO- 70S | 170.3 | | | 61.8 | 56.7 | 53.0 | 50.2 | 46.9 | 43.1 | 38.1 | 35.0 | 0.080 | | |
| | RO- 80S | 242.1 | | | 121.6 | 111.5 | 104.3 | 98.8 | 92.4 | 84.7 | 75.0 | 68.8 | 0.191 | | |
| | RO- 108S | 1034.3 | | | 267.2 | 245.1 | 229.3 | 217.0 | 203.0 | 186.2 | 164.9 | 151.2 | 0.590 | | |
| 120 | 150 | RO- 40S | MS | 4 | 3.0 | 2.8 | 3.0 | 2.8 | 2.6 | 2.5 | 2.3 | 2.0 | 1.8 | 0.017 | |
| | | RO- 50S | | | 19.5 | 10.8 | 9.9 | 9.3 | 8.8 | 8.2 | 7.6 | 6.7 | 6.1 | 0.053 | |
| | | RO- 63S | | | 52.8 | 22.7 | 20.8 | 19.4 | 18.4 | 17.2 | 15.8 | 14.0 | 12.8 | 0.154 | |
| | | RO- 70S | | | 105.8 | 43.9 | 40.2 | 37.6 | 35.6 | 33.3 | 30.6 | 27.1 | 24.8 | 0.171 | |
| | | RO- 80S | | | 200.8 | 70.7 | 64.8 | 60.6 | 57.4 | 53.7 | 49.3 | 43.6 | 40.0 | 0.409 | |

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 (shaft type)

Torque Capacity table

| Oscillation Angle | Index Angle α (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 | |
| 120 | 150 | RO- 108S | MS | 4 | 316.8 | 157.6 | 144.6 | 135.3 | 128.1 | 119.8 | 109.9 | 97.3 | 89.2 | 1.264 |
| | 180 | RO- 40S | SH | 4 | 9.0 | 5.4 | 4.9 | 4.6 | 4.4 | 4.1 | 3.8 | 3.3 | 3.1 | 0.011 |
| | | RO- 50S | | | 19.5 | 11.4 | 10.5 | 9.8 | 9.3 | 8.7 | 7.9 | 7.0 | 6.5 | 0.033 |
| | | RO- 63S | | | 52.8 | 23.9 | 21.9 | 20.5 | 19.4 | 18.1 | 16.6 | 14.7 | 13.5 | 0.096 |
| | | RO- 70S | | | 105.8 | 46.5 | 42.6 | 39.9 | 37.8 | 35.3 | 32.4 | 28.7 | 26.3 | 0.106 |
| | | RO- 80S | | | 200.8 | 75.2 | 69.0 | 64.5 | 61.1 | 57.1 | 52.4 | 46.4 | 42.6 | 0.253 |
| | | RO- 108S | | | 316.8 | 167.2 | 153.3 | 143.4 | 135.8 | 127.0 | 116.5 | 103.1 | 94.6 | 0.784 |
| 150 | 180 | RO- 40S | SH | 4 | 9.0 | 5.4 | 4.9 | 4.6 | 4.4 | 4.1 | 3.8 | 3.3 | 3.1 | 0.014 |
| | | RO- 50S | | | 19.5 | 11.1 | 10.2 | 9.5 | 9.0 | 8.4 | 7.7 | 6.9 | 6.3 | 0.041 |
| | | RO- 63S | | | 52.8 | 23.2 | 21.3 | 19.9 | 18.9 | 17.6 | 16.2 | 14.3 | 13.1 | 0.120 |
| | | RO- 70S | | | 105.8 | 45.5 | 41.7 | 39.0 | 36.9 | 34.5 | 31.7 | 28.0 | 25.7 | 0.133 |
| | | RO- 80S | | | 200.8 | 73.2 | 67.2 | 62.8 | 59.5 | 55.6 | 51.0 | 45.2 | 41.5 | 0.317 |
| | | RO- 108S | | | 316.8 | 163.0 | 149.5 | 139.8 | 132.4 | 123.8 | 113.6 | 100.5 | 92.2 | 0.980 |

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.