

STR SERIES Hollow Rotary Index Tables

STR o63E 1-Stage and 2-Stage Specifications with EVB o6o

| Frame Size | 063E | | | | | | | | | |
|--------------------------------|--|-------|-------------|---------|-------|-------|-------|-------|-------|-------|
| Stage | | | 1-Stage | 2-Stage | | | | | | |
| Ratio | Units | Notes | 20 | 60 | 80 | 100 | 120 | 140 | 160 | 180 |
| Nominal Torque | [Nm] | *1 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 |
| Acceleration Torque | [Nm] | -- | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 |
| No Load Torque | [Nm] | *1 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| Nominal Input Speed | [rpm] | *2 | 800 | 2400 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
| Maximum Input Speed | [rpm] | *2 | 3000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| Reflected Inertia (Single) | [kg-m ² x10 ⁻⁴] | *3 | 0.862 | -- | -- | -- | -- | -- | -- | -- |
| Reflected Inertia (≤Ø 8) | [kg-m ² x10 ⁻⁴] | *3 | -- | 0.311 | 0.266 | 0.248 | 0.239 | 0.234 | 0.230 | 0.228 |
| Reflected Inertia (≤Ø 14) | [kg-m ² x10 ⁻⁴] | *3 | -- | 0.386 | 0.341 | 0.323 | 0.314 | 0.309 | 0.305 | 0.303 |
| Reflected Inertia (≤Ø 19) | [kg-m ² x10 ⁻⁴] | *3 | -- | 0.575 | 0.53 | 0.513 | 0.504 | 0.498 | 0.495 | 0.493 |
| Backlash | [arc-min] | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Angular Transmission Accuracy | [arc-min] | -- | ≤ 1.0 | ≤ 1.0 | | | | | | |
| Angular Repeatability Accuracy | [arc-min] | -- | ± 0.1 | ± 0.1 | | | | | | |
| Surface Runout | [µm (max)] | -- | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Weight | [kg] | -- | 5.6 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 |
| Maximum Axial Load | [N] | -- | 1657 | 1657 | 1657 | 1657 | 1657 | 1657 | 1657 | 1657 |
| Maximum Radial Load | [N] | -- | 1359 | 1359 | 1359 | 1359 | 1359 | 1359 | 1359 | 1359 |
| Maximum Tilting Moment Load | [Nm] | -- | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 |
| Efficiency | [%] | -- | 82 | 74 | 74 | 74 | 74 | 74 | 74 | 74 |
| Protection Class | -- | *4 | IP54 (IP65) | | | | | | | |

*1) At nominal input speed

*2) Speeds are at the actuator input. Limits when used with additional gearbox are higher

*3) At input shaft

*4) IP65 (wash-down) is available as an option. Contact Nidec Drive Technology for more details and our food grade options

STR o63E 2-Stage and 3-Stage Specifications with EVB o6o

| Frame Size | 063E | | | | | | | | | |
|--------------------------------|--|-------|-------------|---------|-------|-------|-------|-------|-------|-------|
| Stage | | | 2-Stage | 3-Stage | | | | | | |
| Ratio | Units | Notes | 200 | 300 | 320 | 400 | 500 | 560 | 600 | 700 |
| Nominal Torque | [Nm] | *1 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 |
| Acceleration Torque | [Nm] | -- | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 |
| No Load Torque | [Nm] | *1 | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Nominal Input Speed | [rpm] | *2 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
| Maximum Input Speed | [rpm] | *2 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| Reflected Inertia (Single) | [kg-m ² x10 ⁻⁴] | *3 | -- | -- | -- | -- | -- | -- | -- | -- |
| Reflected Inertia (≤Ø 8) | [kg-m ² x10 ⁻⁴] | *3 | 0.227 | 0.073 | 0.079 | 0.071 | 0.071 | 0.077 | 0.062 | 0.07 |
| Reflected Inertia (≤Ø 14) | [kg-m ² x10 ⁻⁴] | *3 | 0.302 | 0.118 | 0.124 | 0.116 | 0.115 | 0.122 | 0.106 | 0.115 |
| Reflected Inertia (≤Ø 19) | [kg-m ² x10 ⁻⁴] | *3 | 0.491 | -- | -- | -- | -- | -- | -- | -- |
| Backlash | [arc-min] | -- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Angular Transmission Accuracy | [arc-min] | -- | ≤ 1.0 | ≤ 1.0 | | | | | | |
| Angular Repeatability Accuracy | [arc-min] | -- | ± 0.1 | ± 0.1 | | | | | | |
| Surface Runout | [µm (max)] | -- | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Weight | [kg] | -- | 7.4 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| Maximum Axial Load | [N] | -- | 1657 | 1657 | 1657 | 1657 | 1657 | 1657 | 1657 | 1657 |
| Maximum Radial Load | [N] | -- | 1359 | 1359 | 1359 | 1359 | 1359 | 1359 | 1359 | 1359 |
| Maximum Tilting Moment Load | [Nm] | -- | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79 |
| Efficiency | [%] | -- | 74 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| Protection Class | -- | *4 | IP54 (IP65) | | | | | | | |

*1) At nominal input speed

*2) Speeds are at the actuator input. Limits when used with additional gearbox are higher

*3) At input shaft

*4) IP65 (wash-down) is available as an option. Contact Nidec Drive Technology for more details and our food grade options

