

# STR SERIES Hollow Rotary Index Tables

## STR o63E 1-Stage and 2-Stage Specifications with EVB o60

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 <sup>2</sup> x10 <sup>-4</sup> ]	*3	0.862	--	--	--	--	--	--	--
Reflected Inertia (≤Ø 8)	[kg-m <sup>2</sup> x10 <sup>-4</sup> ]	*3	--	0.311	0.266	0.248	0.239	0.234	0.230	0.228
Reflected Inertia (≤Ø 14)	[kg-m <sup>2</sup> x10 <sup>-4</sup> ]	*3	--	0.386	0.341	0.323	0.314	0.309	0.305	0.303
Reflected Inertia (≤Ø 19)	[kg-m <sup>2</sup> x10 <sup>-4</sup> ]	*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-SHIMPO for more details and our food grade options

## STR o63E 2-Stage and 3-Stage Specifications with EVB o60

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 <sup>2</sup> x10 <sup>-4</sup> ]	*3	--	--	--	--	--	--	--	--
Reflected Inertia (≤Ø 8)	[kg-m <sup>2</sup> x10 <sup>-4</sup> ]	*3	0.227	0.073	0.079	0.071	0.071	0.077	0.062	0.07
Reflected Inertia (≤Ø 14)	[kg-m <sup>2</sup> x10 <sup>-4</sup> ]	*3	0.302	0.118	0.124	0.116	0.115	0.122	0.106	0.115
Reflected Inertia (≤Ø 19)	[kg-m <sup>2</sup> x10 <sup>-4</sup> ]	*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-SHIMPO for more details and our food grade options

