

STR SERIES Hollow Rotary Index Tables

STR 160E 1-Stage and 2-Stage Specifications with EVB 115

Frame Size	160E									
Stage			1-Stage	2-Stage						
Ratio	Units	Notes	20	60	80	100	120	140	160	180
Nominal Torque	[Nm]	*1	1165	1165	1165	1165	1165	1165	1165	1165
Acceleration Torque	[Nm]	--	1888	1888	1888	1888	1888	1888	1888	1888
No Load Torque	[Nm]	*1	6.6	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Nominal Input Speed	[rpm]	*2	500	1500	2000	2500	3000	3000	3000	3000
Maximum Input Speed	[rpm]	*2	1000	3000	4000	5000	6000	6000	6000	6000
Reflected Inertia (Single)	[kg-m ² x10 ⁻⁴]	*3	46.99	--	--	--	--	--	--	--
Reflected Inertia (≤Ø 14)	[kg-m ² x10 ⁻⁴]	*3	--	--	--	--	--	--	--	--
Reflected Inertia (≤Ø 19)	[kg-m ² x10 ⁻⁴]	*3	--	6.857	5.607	5.137	4.887	4.767	4.667	4.607
Reflected Inertia (≤Ø 28)	[kg-m ² x10 ⁻⁴]	*3	--	8.457	7.197	6.727	6.477	6.357	6.257	6.197
Reflected Inertia (≤Ø 38)	[kg-m ² x10 ⁻⁴]	*3	--	15.53	14.27	13.81	13.55	13.43	13.34	13.28
Backlash	[arc-min]	--	0	0	0	0	0	0	0	0
Angular Transmission Accuracy	[arc-min]	--	≤ 1.5	≤ 1.5						
Angular Repeatability Accuracy	[arc-min]	--	± 0.15	± 0.15						
Surface Runout	[µm (max)]	--	20	20	20	20	20	20	20	20
Weight	[kg]	--	126	137	137	137	137	137	137	137
Maximum Axial Load	[N]	--	17170	17170	17170	17170	17170	17170	17170	17170
Maximum Radial Load	[N]	--	7283	7283	7283	7283	7283	7283	7283	7283
Maximum Tilting Moment Load	[Nm]	--	1216.3	1216.3	1216.3	1216.3	1216.3	1216.3	1216.3	1216.3
Efficiency	[%]	--	80	72	72	72	72	72	72	72
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 160E 2-Stage and 3-Stage Specifications with EVB 115

Frame Size	160E									
Stage			2-Stage	3-Stage						
Ratio	Units	Notes	200	300	320	400	500	560	600	700
Nominal Torque	[Nm]	*1	1165	1165	1165	1165	1165	1165	1165	1165
Acceleration Torque	[Nm]	--	1888	1888	1888	1888	1888	1888	1888	1888
No Load Torque	[Nm]	*1	2.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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 14)	[kg-m ² x10 ⁻⁴]	*3	--	2.367	2.577	2.317	2.297	2.517	1.987	2.277
Reflected Inertia (≤Ø 19)	[kg-m ² x10 ⁻⁴]	*3	4.577	2.697	2.907	2.647	2.627	2.847	2.317	2.607
Reflected Inertia (≤Ø 28)	[kg-m ² x10 ⁻⁴]	*3	6.167	4.817	5.027	4.767	4.757	4.977	4.447	4.737
Reflected Inertia (≤Ø 38)	[kg-m ² x10 ⁻⁴]	*3	13.24	--	--	--	--	--	--	--
Backlash	[arc-min]	--	0	0	0	0	0	0	0	0
Angular Transmission Accuracy	[arc-min]	--	≤ 1.5	≤ 1.5						
Angular Repeatability Accuracy	[arc-min]	--	± 0.15	± 0.15						
Surface Runout	[µm (max)]	--	20	20	20	20	20	20	20	20
Weight	[kg]	--	137	136	136	136	136	136	136	136
Maximum Axial Load	[N]	--	17170	17170	17170	17170	17170	17170	17170	17170
Maximum Radial Load	[N]	--	7283	7283	7283	7283	7283	7283	7283	7283
Maximum Tilting Moment Load	[Nm]	--	1216.3	1216.3	1216.3	1216.3	1216.3	1216.3	1216.3	1216.3
Efficiency	[%]	--	72	68	68	68	68	68	68	68
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

