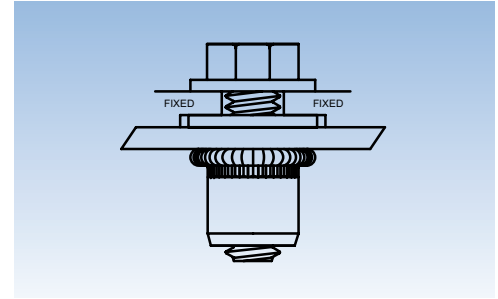# Rivnut® Mechanical Properties

Please note that the test data provided are averages of multiple tests. This data is provided for comparative information only. Test data will vary with each actual application. Bollhoff suggests that tests are performed on actual application components before a Rivnut® fastener is specified.

Assembly Torques for Rivnut® and Rivstud® Fasteners

The following assembly torques are suggested for corresponding mating fasteners based on international fastening standards for Grade 5 and Metric Class 8.8 fasteners. Inch sizes shown in inch pounds, metric sizes shown in Newton meters.

Type	6-32	8-32	10-32	1/4-20	5/16-18	3/8-16	1/2-13
Steel Rivnut	12	22	36	75	156	276	660

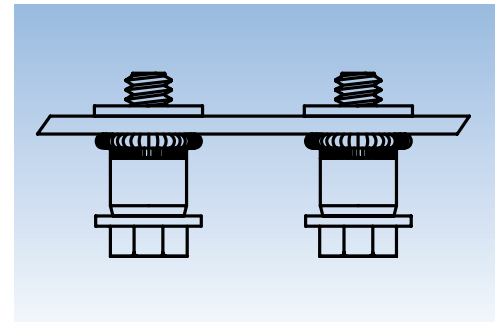| Type		M4	M5	M6	M8	M10	M12
Steel Rivnut		2.5	5.0	8.6	21.0	42.0	72.0

Spin-Out Torques for Steel Rivnut® Fasteners in Steel Sheet Metal

Inch sizes shown in inch pounds, metric sizes shown in Newton meters.

Type	Mat Tks	6-32	8-32	10-32	1/4-20	5/16-18	3/8-16	1/2-13
EZ Round	.030	19	19	21	39	60	230	
EZ Hex	.030		35	71	110	170	290	

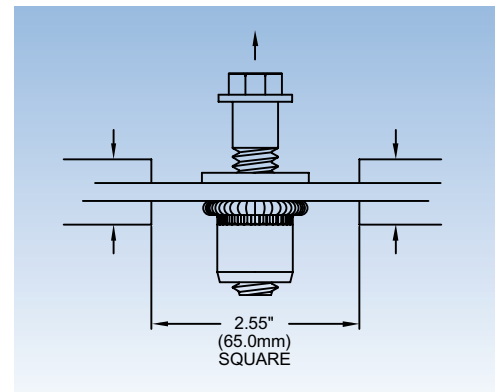| Type	Mat Tks	M3	M4	M5	M6	M8	M10	M12
EZ Round	.76 mm	2.2	2.2	2.4	4.4	6.6	26.9	
EZ Hex	.76 mm		4.0	8.1	12.6	19.4	32.8	

Pull-Out Strength for Rivnut® Fasteners in Steel Sheet Metals

Inch sizes shown in pounds, metric sizes shown in Kilo Newtons.

Type	Mat Tks	6-32	8-32	10-32	1/4-20	5/16-18	3/8-16	1/2-13
EZ Round	.030	330	330	385	480	500	590	
EZ Hex	.030		345	415	435	450	460	
Plusnut	.030	500	575	690	1215	1500	1675	

Type	Mat Tks	M3	M4	M5	M6	M8	M10	M12
EZ Round	.76 mm	1.47	1.47	1.71	2.14	2.22	2.62	
EZ Hex	.76 mm		1.54	1.85	1.93	2.00	2.05	
Plusnut	.76 mm		2.56	3.07	5.40	6.67	7.45	

2.55"
(65.0mm)
SQUARE

Push-Out Strength for Rivnut® Fasteners in .125 Thick Steel

Inch sizes shown in pounds, with metric sizes shown in Kilo Newtons.

Type	Mat Tks	1/4-20	5/16-18	3/8-16	1/2-13
EZ Round	.120	950	1650	1900	
EZ Hex	.120	1875	2150	2250	
Rivnut®	.120	2025	2800	3600	3775

Type	Mat Tks	M6	M8	M10	M12
EZ Round	3 mm	4.2	7.3	8.4	
EZ Hex	3 mm	8.3	9.5	10.0	
Rivnut®	3 mm	9.0	12.4	16.0	16.5

2.55"
(65.0mm)
SQUARE

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