

## Servo-Drive Lead Screws, Nuts, Antibacklash Nuts and various Nuts Assemblies



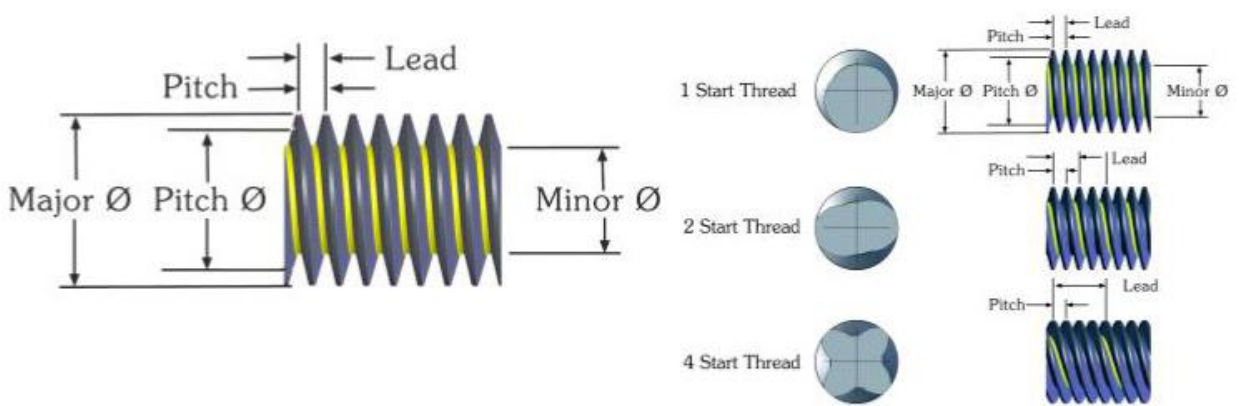
### Lead Screws, Nuts, Antibacklash Nuts and various Nuts Assemblies:

Servo-Drive offers 5 different styles of nuts from free wheeling non antibacklash nuts to a user adjustable anti-backlash nut. All of these nut styles are available on screws ranging from 3.2mm to 15.9mm in diameter with leads as fine as 0.3mm up to fast leads as high as 31.75mm. Contact Servo-Drive today for your custom linear motion solution.

Our standard offering is a proprietary self-lubricating polyacetal thermoplastic that offers the following traits:

- Low coefficient of friction
- Good mechanical strength
- Excellent abrasion resistance
- Excellent impact resistance
- Long life
- Excellent chemical compatibility

### Industry definitions: Pitch, Lead, Number of Starts...

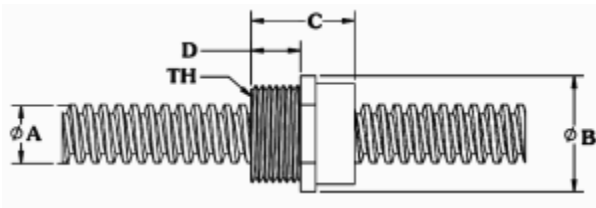


**Lead Screw with "N" Style nut - Standard Normal Nut (with backlash)**

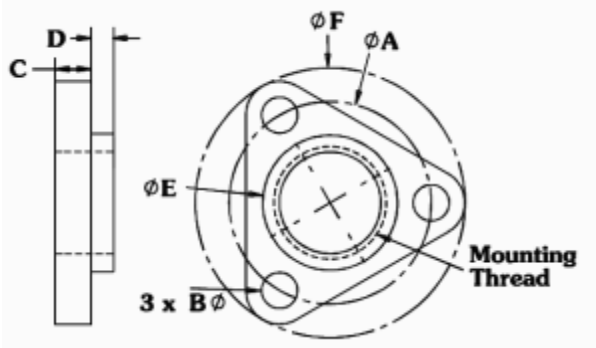


Part Number	Diameter	Lead	Starts	Pitch
42-347-1	4,76	0,64	1	0,64
42-347-2	4,76	1,27	1	1,27
42-347-3	4,76	2,54	2	1,27
42-347-4	4,76	5,08	4	1,27
42-347-5	4,76	10,16	8	1,27
42-347-6	5,54	6,1	1	6,1
42-347-7	5,54	1,22	1	1,22
42-347-8	5,54	1,59	1	1,59
42-347-9	5,54	2,44	2	1,22
42-347-10	5,54	4,88	4	1,22
42-347-11	5,54	9,75	8	1,22
42-347-12	6,35	0,64	1	0,64
42-347-13	6,35	0,79	1	0,79
42-347-14	6,35	1,27	1	1,27
42-347-15	6,35	1,59	1	1,59
42-347-16	6,35	2,54	1	2,54
42-347-17	6,35	3,18	2	1,59
42-347-18	6,35	6,35	4	1,59
42-347-19	6,35	12,7	8	1,59
42-347-20	6,35	19,05	4	4,76
42-347-21	6,35	25,4	8	3,18
42-343-1	9,53	0,64	1	0,64
42-343-2	9,53	1,06	1	1,06
42-343-3	9,53	1,27	1	1,27
42-343-4	9,53	1,59	1	1,59
42-343-5	9,53	2,12	1	2,12
42-343-6	9,53	2,54	1	2,54
42-343-7	9,53	4,23	2	2,12
42-343-8	9,53	5,08	2	2,54
42-343-9	9,53	10,16	4	2,54
42-343-10	9,53	30,48	5	6,1
42-343-11	9,53	5	1	5

## Lead Screw Dimensions



Screw Diameter	Nut Diameter	Nut Length	Thread	Thread Length	Static Load	Design Load
A	B	C	TH	D	kg	kg
4,8	15,88	10,92	9/16-18UNF (no metric size)	6,1	32	16
5,6-6,4	15,88	10,92	9/16-18UNF (no metric size)	6,1	46	23
9,5	19,05	17,27	5/8-18UNF (no metric size)	8,13	68	34



> > > Flange adapter for metric mounting

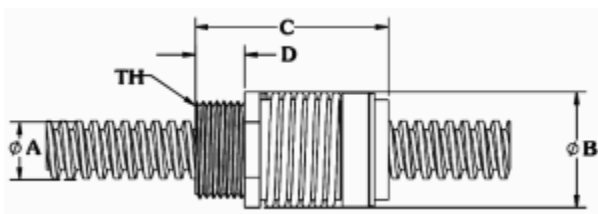
**Lead Screw with "W" and "C" Style nut - Wedge style and Compression type Antibacklash Nut**



Part Number	Diameter	Lead	Starts	Pitch
42-345-1	4,76	0,64	1	0,64
42-345-2	4,76	1,27	1	1,27
42-345-3	4,76	2,54	2	1,27
42-345-4	4,76	5,08	4	1,27
42-345-5	4,76	10,16	8	1,27
42-345-6	5,54	6,1	1	6,1
42-345-7	5,54	1,22	1	1,22
42-345-8	5,54	1,59	1	1,59
42-345-9	5,54	2,44	2	1,22
42-345-10	5,54	4,88	4	1,22

42-345-11	5,54	9,75	8	1,22
42-345-12	6,35	0,64	1	0,64
42-345-13	6,35	0,79	1	0,79
42-345-14	6,35	1,27	1	1,27
42-345-15	6,35	1,59	1	1,59
42-345-16	6,35	2,54	1	2,54
42-345-17	6,35	3,18	2	1,59
42-345-18	6,35	6,35	4	1,59
42-345-19	6,35	12,7	8	1,59
42-345-20	6,35	19,05	4	4,76
42-345-21	6,35	25,4	8	3,18
42-321-1	9,53	0,64	1	0,64
42-321-2	9,53	1,06	1	1,06
42-321-3	9,53	1,27	1	1,27
42-321-4	9,53	1,59	1	1,59
42-321-5	9,53	2,12	1	2,12
42-321-6	9,53	2,54	1	2,54
42-321-7	9,53	4,23	2	2,12
42-321-8	9,53	5,08	2	2,54
42-321-9	9,53	10,16	4	2,54
42-321-10	9,53	30,48	5	6,1
42-321-11	9,53	5	1	5

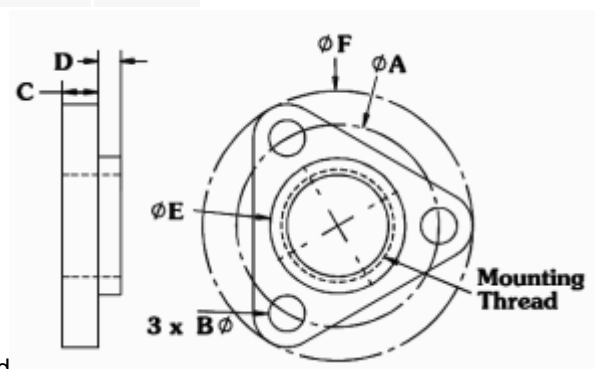
## Lead Screw type Dimensions



## Lead Screw "C" type Dimensions

Screw Diameter	Nut Diameter	Nut Length	Thread	Thread Length	Design Load	Drag Torque
A	B	C	TH	D	kg	Ncm
4,8-6,4	15,88	26,61	9/16-18UNF (no	6,1	2,27 (4,54*)	2,8 max

			metric size)			
9,5	19,05	33,53	5/8- 18UNF (no metric size)	8,13	<b>4,54</b> <b>(11,34*)</b>	3,5 max



\*"W" type nut has same dimensions only higher design load  
> > > **Flange adapter for metric mounting**

## Lead Screw with "T" Style nut - Torsion adjustable Antibacklash nut

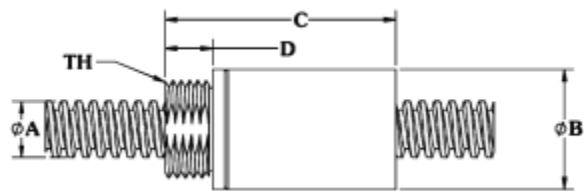
Nut Assembly Mechanismus can be rotated to set up Torsional Force inside Nut Assembly that sets up Antibacklash Force. It allowed to set up Antibacklash Force directly in Machine to exact needed value.



Part Number	Diameter	Lead	Starts	Pitch
42-349-1	4,76	0,64	1	0,64
42-349-2	4,76	1,27	1	1,27
42-349-3	4,76	2,54	2	1,27
42-349-4	4,76	5,08	4	1,27
42-349-5	4,76	10,16	8	1,27
42-349-6	5,54	6,1	1	6,1
42-349-7	5,54	1,22	1	1,22
42-349-8	5,54	1,59	1	1,59
42-349-9	5,54	2,44	2	1,22
42-349-10	5,54	4,88	4	1,22
42-349-11	5,54	9,75	8	1,22
42-349-12	6,35	0,64	1	0,64
42-349-13	6,35	0,79	1	0,79
42-349-14	6,35	1,27	1	1,27
42-349-15	6,35	1,59	1	1,59
42-349-16	6,35	2,54	1	2,54
42-349-17	6,35	3,18	2	1,59
42-349-18	6,35	6,35	4	1,59
42-349-19	6,35	12,7	8	1,59
42-349-20	6,35	19,05	4	4,76
42-349-21	6,35	25,4	8	3,18
42-341-1	9,53	0,64	1	0,64
42-341-2	9,53	1,06	1	1,06
42-341-3	9,53	1,27	1	1,27
42-341-4	9,53	1,59	1	1,59
42-341-5	9,53	2,12	1	2,12
42-341-6	9,53	2,54	1	2,54
42-341-7	9,53	4,23	2	2,12
42-341-8	9,53	5,08	2	2,54
42-341-9	9,53	10,16	4	2,54
42-341-10	9,53	30,48	5	6,1
42-341-11	9,53	5	1	5

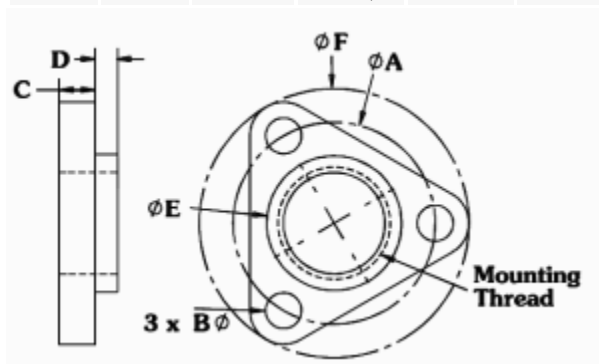
## Lead Screw type Dimensions





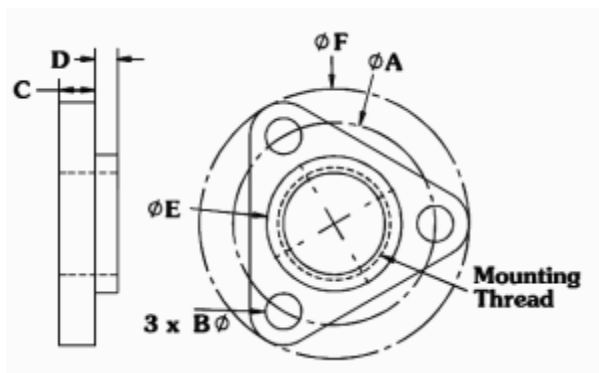
## Lead Screw "C" type Dimensions

Screw Diam.	Nut Diam.	Nut Length	Thread	Thread Length	Design Load	Drag Torque
A	B	C	TH	D	kg	Ncm
4,8 - 6,4	15,88	27,43	9/16 - 18UNF (no metric size)	6,1	6,8	0,53 - 2,82 (adjustable)
9,5	19,05	38,61	5/8 - 18UNF (no metric size)	8,13	13,61	0,53 - 2,82 (adjustable)



> > Flange adapter for metric mounting

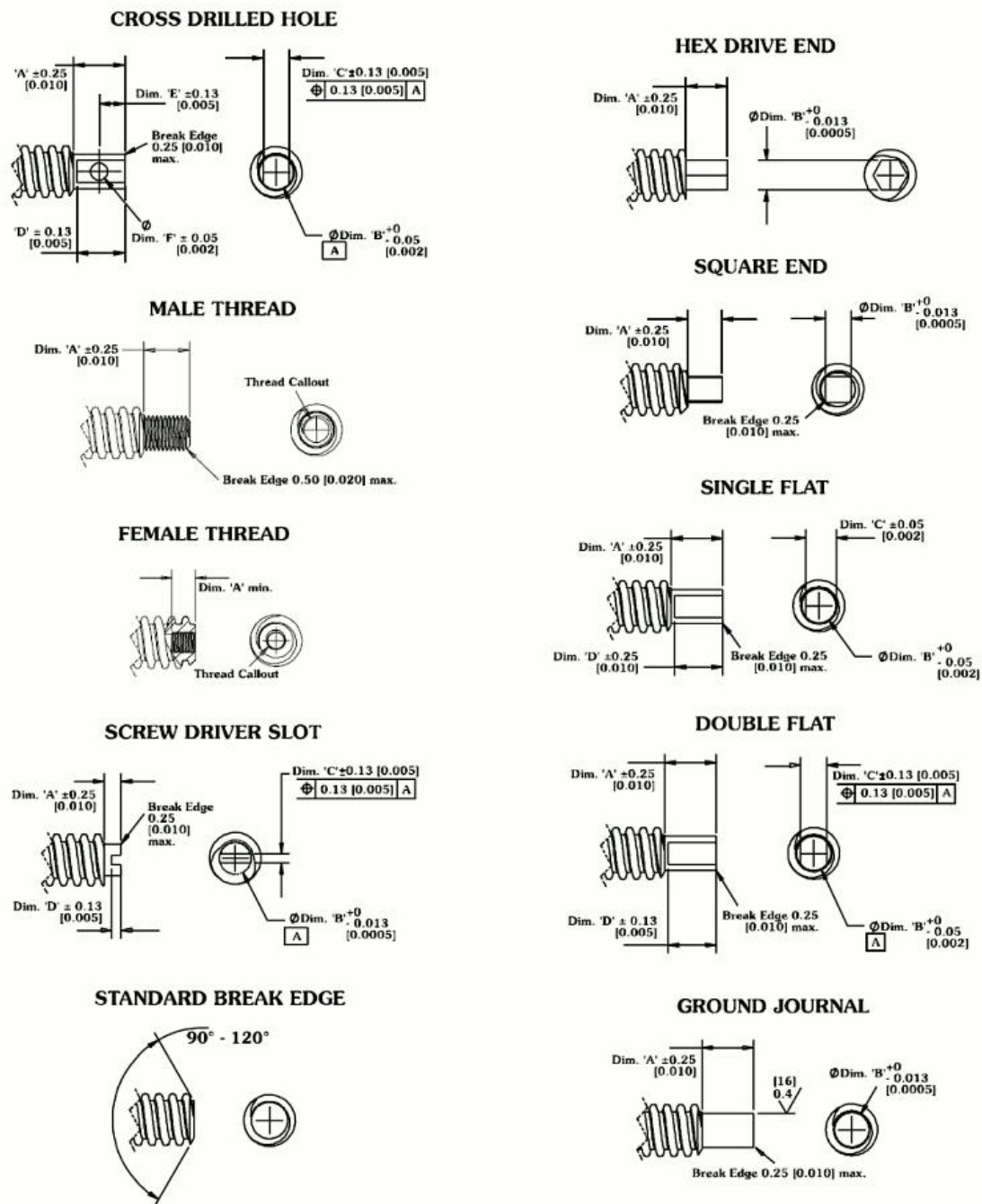
## Lead Screw Nut Flange Adapter for Metric Mounting



Screw Diameter	Bolt Hole Circle	Bolt Hole	Flange Thickness	Pilot Length	Pilot	Effective Flange Diameter	Mounting Thread
-	A	B	C	D	E	F	-
4,8-6,4	22,23	3,63	4,06	2,04	15,88	28,58	9/16-18UNF (no metric size)
9,5	28,58	5,08	5,08	3,05	19,05	38	5/8-18UNF (no metric size)

**End Matching**

Any custome shape or feature on the ends of lead screw. Some common examples can be seen



below:

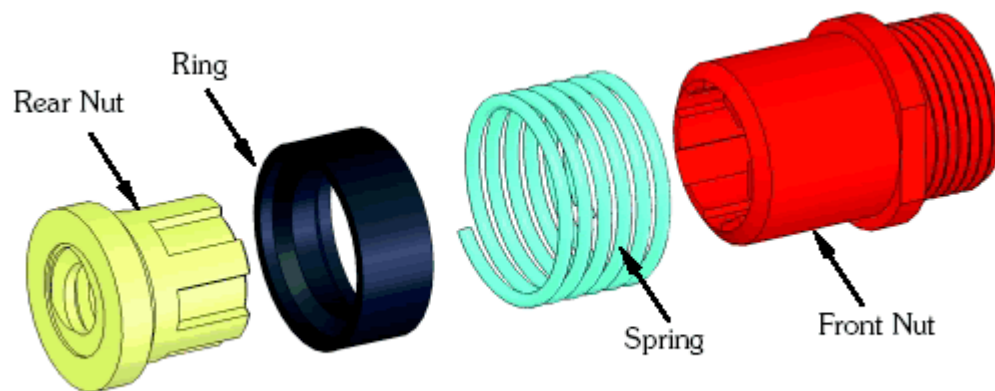
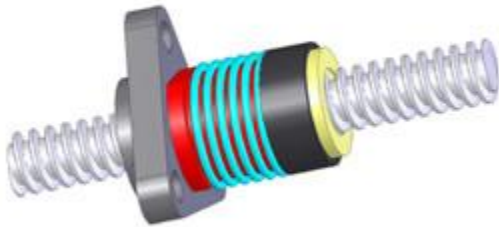
**N style Nut**

"N" Style Freewheeling Nut



## C style Nut

"C" Style Compression Nut



## W style Nut

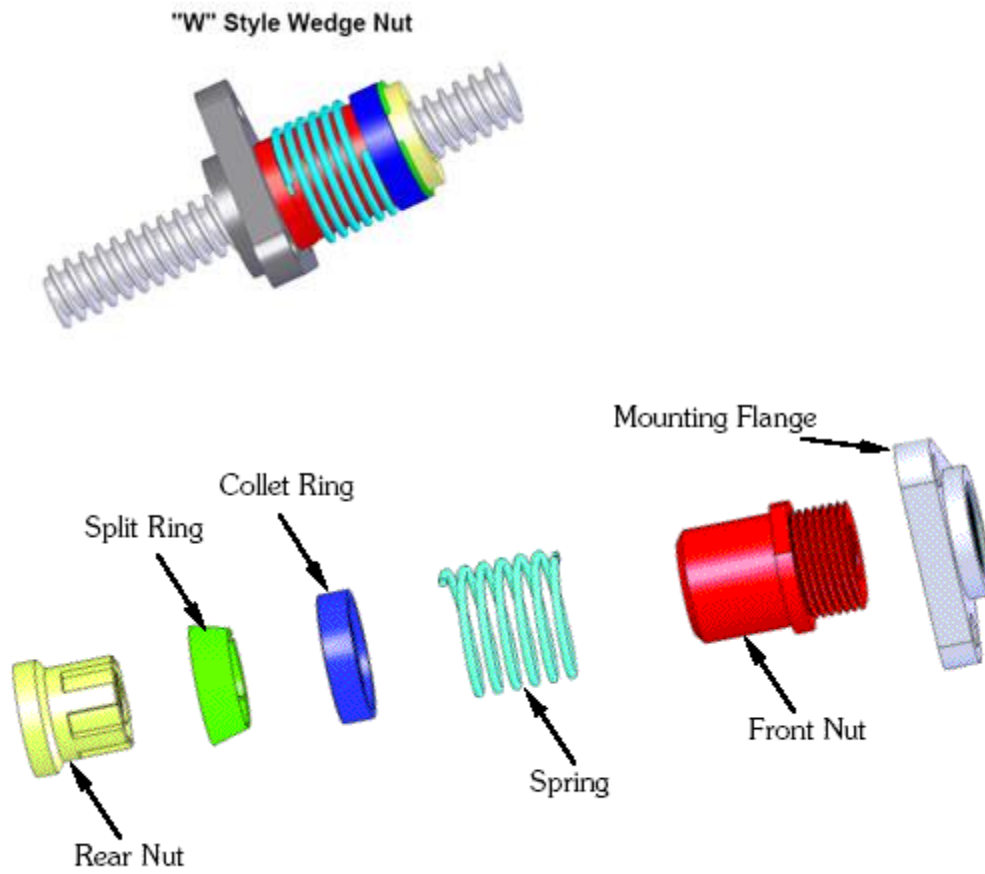
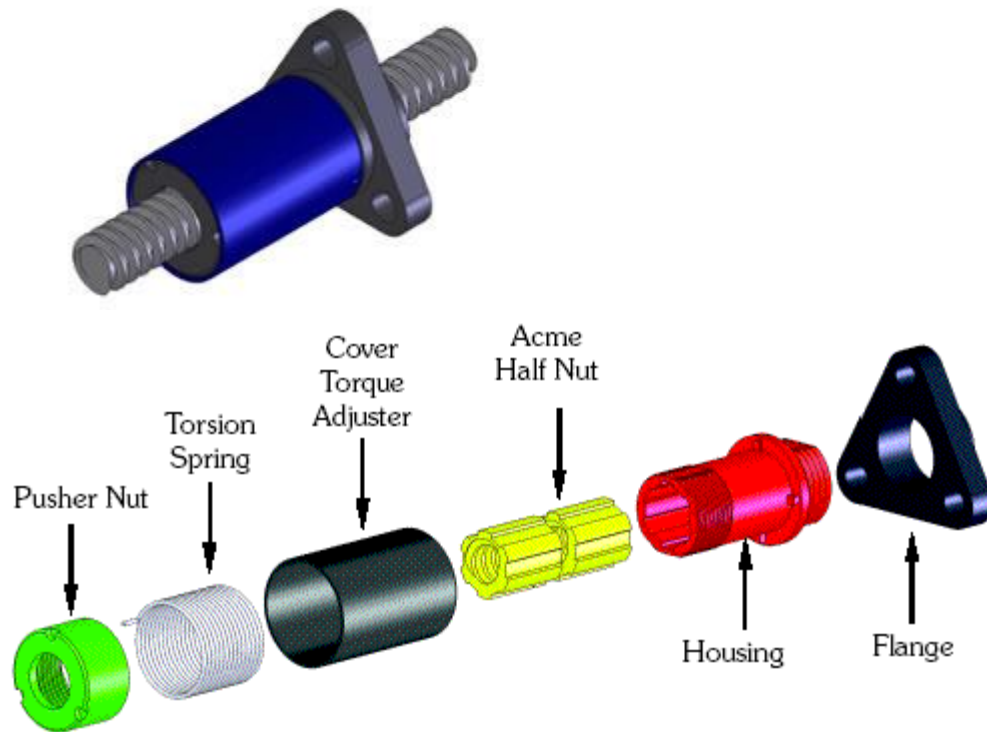


Figure 3. Exploded View of Wedge Nut

## T style Nut

"T" Style Torsional Nut



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