



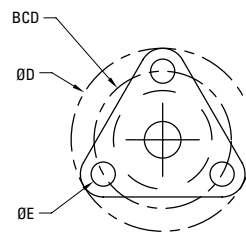
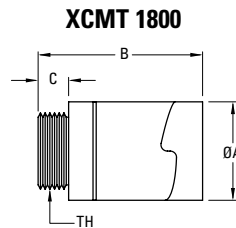
Advanced Anti-Backlash Supernuts®

XCM 1800

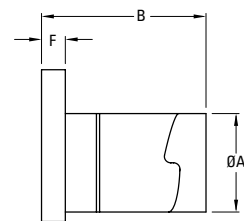


Our smallest anti-backlash nut design ever. The XCM 1800 uses the same patented† ActiveCAM™ mechanism as its larger siblings in a miniaturized package. This allows backlash free operation in space critical applications requiring high accuracy and low drag torque. This cost effective solution is available in either flanged or threaded versions. TriCoat® PTFE dry film lubricant is available as an option on most screws.

Note: See Screw Section on page 33. Specify XCMT or XCMF when ordering, see drawings at right.



XCMF 1800



Dia.	Lead	Part No.	Supernut® Dimensions								Design Load	Efficiency %	Drag Torque oz-in
			A	B	C	D	E	F	BCD	TH			
3/16"	0.050	XCM_1820	0.50	0.90 (max)	0.200	1.00	0.143	0.18	0.750	7/16"-20	5 lbs	49	< 1
	0.100	XCM_2-1820										66	
	0.125	XCM_3-1824										70	
	0.200	XCM_4-1820										77	
	0.375	XCM_8-1821										81	
	0.400	XCM_8-1820										82	
	0.500	XCM_10-1820										82	
6mm*	1mm	XCM_6x1M	0.50	0.90 (max)	0.200	1.00	0.143	0.18	0.750	7/16"-20	5 lbs	29	< 1
1/4"*	0.0125	XCM_2580	0.50	0.90 (max)	0.200	1.00	0.143	0.18	0.750	7/16"-20	5 lbs	13	< 1
	0.0208	XCM_2548										20	
	0.0250	XCM_2540										23	
	0.0278	XCM_2536										25	
	0.0313	XCM_2532										28	
	0.0357	XCM_2528										30	
	0.0417	XCM_2524										34	
1/4"	0.050	XCM_2520	0.50	0.90 (max)	0.200	1.00	0.143	0.18	0.750	7/16"-20	5 lbs	41	< 1
	0.063	XCM_2516										48	
	2mm	XCM_2-25x1M										53	
	3mm	XCM_3-25x1M										62	
	0.125	XCM_2-2516										64	
	0.200	XCM_4-2520										72	
	0.250	XCM_4-2516										76	
	0.500	XCM_7-2514										81	

* V-Thread screws, see page 36.

† Patent No. 5839321

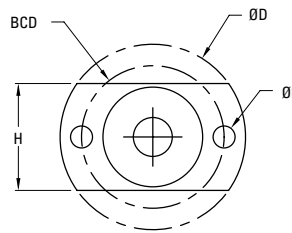
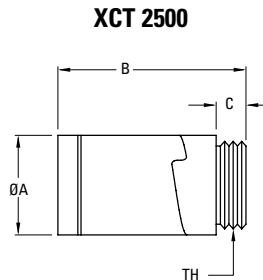
Advanced Anti-Backlash Supernuts®

XC 2500

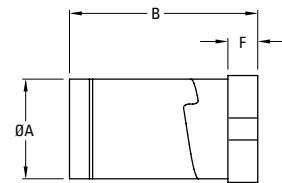


The XC Mode assembly is the most advanced anti-backlash nut design. The unique patented[†] ActiveCAM™ accomplishes high axial stiffness and the absolute minimum drag torque. This advantage produces assemblies that cost less, perform better and last longer. The ActiveCAM automatically adjusts for wear, ensuring zero backlash for the life of the nut.

Note: See Screw Section on page 33. Specify XCT or XCF when ordering, see drawings at right.



XCF 2500



Dia.	Lead	Part No.	Supernut® Dimensions									Design Load	Efficiency %	Drag Torque oz-in
			A	B	C	D	E	F	H	BCD	TH			
6 mm	1 mm	XC_6x1M	0.64	1.18 (max)	0.187	1.19	0.141	0.16	0.66	0.900	9/16" -18	10lbs	29	<1
1/4"*	0.0125	XC_2580	0.64	1.18 (max)	0.187	1.19	0.141	0.16	0.66	0.900	9/16" -18	10lbs	13	<1
	0.0208	XC_2548											20	
	0.0250	XC_2540											23	
	0.0278	XC_2536											25	
	0.0313	XC_2532											28	
	0.0357	XC_2528											30	
1/4"	0.0417	XC_2524	0.64	1.18 (max)	0.187	1.19	0.141	0.16	0.66	0.900	9/16" -18	10lbs	34	<1
	0.050	XC_2520											41	
	0.063	XC_2516											48	
	2 mm	XC_2-25x1M											53	
	3 mm	XC_3-25x1M											62	
	0.125	XC_2-2516											64	
	0.200	XC_4-2520											72	
	0.250	XC_4-2516											76	
0.500	XC_7-2514	81												

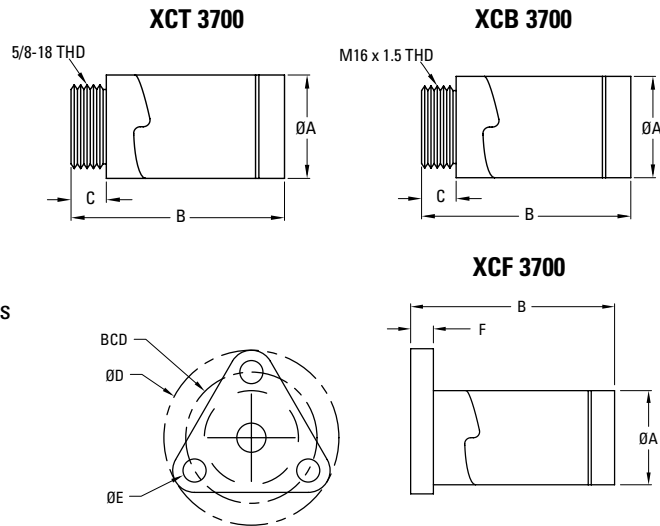
* V-Thread screws, see page 36.

† Patent No. 5839321



Advanced Anti-Backlash Supernuts®

XC 3700



The XC Model Anti-Backlash assembly is the most advanced anti-backlash nut design. The unique patented† ActiveCAM™ accomplishes high axial stiffness and the absolute minimum drag torque. This advantage produces assemblies that cost less, perform better and last longer. The ActiveCAM automatically adjusts for wear ensuring zero backlash for the life of the nut.

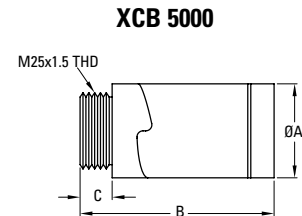
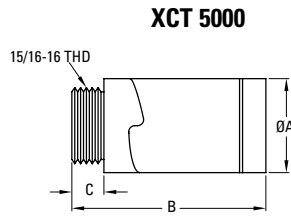
Note: See Screw Section on page 33. Specify XCT, XCB or XCF when ordering, see drawings at right.

Dia.	Lead	Part No.	Supernut® Dimensions							Design Load	Efficiency %	Drag Torque oz-in
			A	B	C	D	E	F	BCD			
5/16"	0.083	XC_3112	0.82	1.875 (max)	0.25	1.5	0.2	0.2	1.125	25 lbs	49	1 - 3
	0.167	XC_2-3112									65	
	0.250	XC_2-3108									72	
	0.500	XC_4-3108									80	
3/8"	0.050	XC_3720	0.82	1.875 (max)	0.25	1.5	0.2	0.2	1.125	25 lbs	32	1 - 3
	0.063	XC_3716									36	
	2mm	XC_37x2M									42	
	0.083	XC_3712									44	
	0.100	XC_3710									49	
	0.125	XC_3708									53	
	0.167	XC_2-3712									60	
	0.200	XC_2-3710									65	
	0.250	XC_2-3708									68	
	0.300	XC_3-3710									73	
	0.375	XC_4-3711									75	
	0.500	XC_4-3708									79	
0.750	XC_6-3708	82										
10mm	2 mm	XC_10x2M	0.82	1.875 (max)	0.25	1.5	0.2	0.2	1.125	25 lbs	41	1 - 3
	3 mm	XC_10x3M									53	
	4 mm	XC_2-10x2M									59	
	5 mm	XC_2-10x2.5M									64	
	6 mm	XC_4-10x1.5M									67	
	10 mm	XC_5-10x2M									76	
	12 mm	XC_5-10x2-4M									78	
	20 mm	XC_6-10x3.3M									81	

† Patent No. 5839321

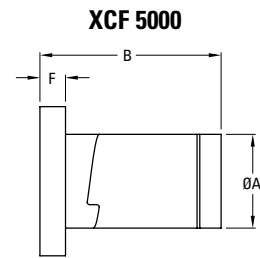
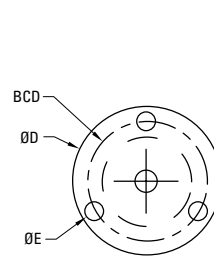
Advanced Anti-Backlash Supernuts®

XC 5000



The XC 5000 utilizes the same patented† ActiveCAM™ as found in the XC 3700 model. Along with the very low drag torque and high axial stiffness advantages, the XC 5000 has greater load capacity.

Note: See Screw Section on page 33. Specify XCT, XCB or XCF when ordering, see drawings at right.



Dia.	Lead	Part No.	Supernut® Dimensions							Design Load	Efficiency %	Drag Torque oz-in
			A	B	C	D	E	F	BCD			
7/16"	0.125	XC_2-4316	1.12	2.25 (max)	0.375	1.75	0.2	0.3	1.406	125 lbs	55	1 - 3
	0.250	XC_2-4308									65	
	0.500	XC_4-4308									76	
12mm	3 mm	XC_12x3M	1.12	2.25 (max)	0.375	1.75	0.2	0.3	1.406	125 lbs	48	1 - 3
	4 mm	XC_2-12x2M									54	
	5 mm	XC_2-12x2.5M									59	
	6 mm	XC_3-12x2M									63	
	10mm	XC_4-12x2.5M									73	
	15mm	XC_6-12x2.5M									78	
	25 mm	XC_10-12x2.5M									82	
1/2"	0.0625	XC_5016	1.12	2.25 (max)	0.375	1.75	0.2	0.3	1.406	125 lbs	30	1 - 3
	0.100	XC_5010									41	
	4mm	XC_2-50x2M									52	
	0.200	XC_2-5010									57	
	0.250	XC_2-5008									62	
	0.500	XC_4-5008									75	
	0.800	XC_8-5010									80	
	1.000	XC_8-5008									81	

† Patent No. 5839321



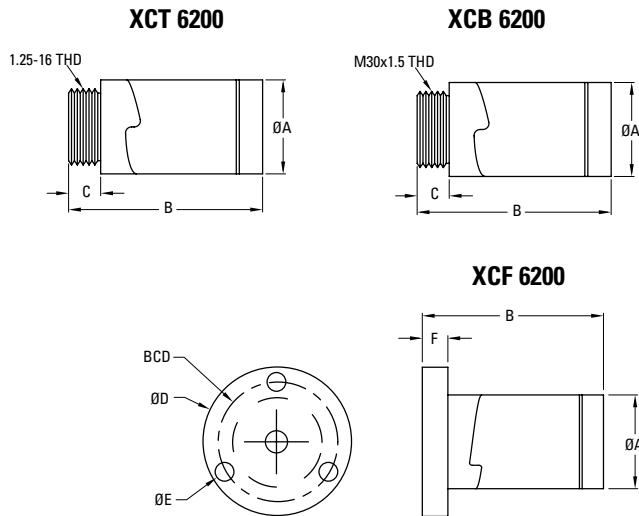
Advanced Anti-Backlash Supernuts®

XC 6200



The XC 6200 utilizes the same patented† ActiveCAM™ as found in the XC 5000 model. Along with the very low drag torque and high axial stiffness advantages, the XC 6200 has greater load capacity.

Note: See Screw Section on page 33. Specify XCT, XCB or XCF when ordering, see drawings at right.

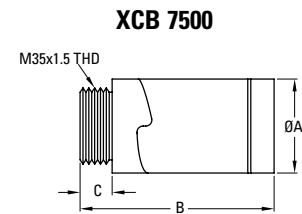
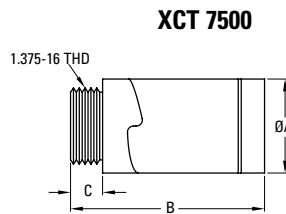


Dia.	Lead	Part No.	Supernut® Dimensions							Design Load	Efficiency %	Drag Torque oz-in
			A	B	C	D	E	F	BCD			
5/8"	0.100	XC_6210	1.40	2.60 (max)	0.5	2.13	0.22	0.5	1.688	175 lbs	35	2 - 6
	0.125	XC_6208									40	
	0.200	XC_2-6210									51	
	0.250	XC_2-6208									57	
	0.500	XC_4-6208									71	
16mm	4 mm	XC_16x4M	1.40	2.60 (max)	0.5	2.13	0.22	0.5	1.688	175 lbs	47	2 - 6
	5 mm	XC_2-16x2.5M									52	
	8 mm	XC_4-16x2M									63	
	16 mm	XC_7-16x2.3M									75	
	25 mm	XC_5-16x5M									80	
	35 mm	XC_7-16x5M									82	

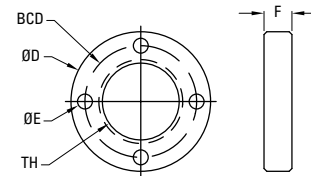
† Patent No. 5839321

Advanced Anti-Backlash Supernuts®

XC 7500



Flange F75



The XC 7500 utilizes the same patented† ActiveCAM™ as found in the XC 5000 model. Along with the very low drag torque and high axial stiffness advantages, the XC 7500 has greater load capacity.

Note: See Screw Section on page 33. Specify XCT, XCB or XCF when ordering, see drawings at right.

Dia.	Lead	Part No.	Nut Dimensions			Flange Dimensions (Optional)				Design Load	Efficiency %	Drag Torque oz-in
			A	B	C	D	E	F	BCD			
3/4"	0.100	XC_7510	1.63	2.9 (max)	0.5	2.5	0.27	0.50	2.00	250 lbs	31	3 - 10
	0.125	XC_7508									36	
	0.167	XC_7506									44	
	0.200	XC_7505									49	
	0.500	XC_5-7510									69	
	1.000	XC_8-7508									79	
	1.500	XC_12-7508									81	
	2.000	XC_10-7505	82									
20mm	4 mm	XC_20x4M	1.63	2.9 (max)	0.5	2.5	0.27	0.50	2.00	250 lbs	41	3 - 10
	8 mm	XC_2-20x4M									59	
	12 mm	XC_3-20x4M									67	
	16 mm	XC_4-20x4M									72	
	20 mm	XC_5-20x4M									76	
	45 mm	XC_9-20x5M									82	
	50 mm	XC_10-20x5M									82	

† Patent No. 5839321



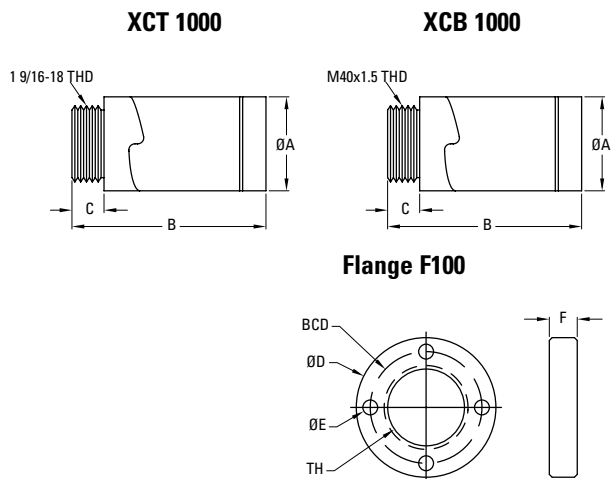
Advanced Anti-Backlash Supernuts®

XC 10000



The XC 10000 utilizes Thomson BSA's patented[†] ActiveCAM™ technology to provide very low drag torque, high axial stiffness and maximum wear life. This self compensating design produces excellent positional repeatability while insuring consistent performance for the long run.

Note: See Screw Section on page 33. Specify XCT, XCB or XCF when ordering, see drawings at right.

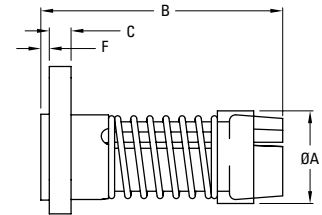
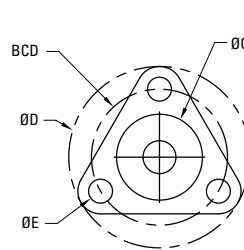


Dia.	Lead	Part No.	Nut Dimensions			Flange Dimensions (Optional)				Design Load	Efficiency %	Drag Torque oz-in
			A	B	C	D	E	F	BCD			
24mm	5mm	XC_24x5M	1.88	3.0 (max)	0.60	3.0	0.27	0.60	2.37	350 lbs	42	5-15
1"	0.100	XC_1010	1.88	3.0 (max)	0.60	3.0	0.27	0.60	2.37	350 lbs	25	5-15
	0.125	XC_1008									29	
	0.200	XC_1005									41	
	0.250	XC_2-1008									46	
	0.250	XC_1004									47	
	0.500	XC_5-1010									61	
	1.000	XC_10-1010									74	

† Patent No. 5839321

Advanced Anti-Backlash Supernuts®

AFT



The low-cost AFT Supernut is designed for light-load OEM applications and offers smooth movement and low drag torque for axial loads up to 10 pounds. The AFT anti-backlash collar automatically adjusts for wear for the life of the nut.

Dia.	Lead	Part No.	Supernut® Dimensions								Design Load	Efficiency %	Drag Torque oz-in
			A	B	C	D	E	F	G	BCD			
3/8"	0.050	AFT3720	0.77	2.00	0.20	1.50	0.20	0.06	0.71	1.125	10 lbs	32	2 - 5
	0.063	AFT3716										36	
	2mm	AFT37x2M										42	
	0.083	AFT3712										44	
	0.100	AFT3710										49	
	0.125	AFT3708										53	
	0.167	AFT2-3712										60	
	0.200	AFT2-3710										65	
	0.250	AFT2-3708										68	
	0.300	AFT3-3710										73	
	0.375	AFT4-3711										75	
	0.500	AFT4-3708										79	
	0.750	AFT6-3708										82	
1.000	AFT5-3705	82											
1.200	AFT5-3704	82											
10 mm	2 mm	AFT10x2M	0.77	2.00	0.20	1.50	0.20	0.06	0.71	1.125	10 lbs	41	2 - 5
	3 mm	AFT10x3M										53	
	4 mm	AFT2-10x2M										59	
	5 mm	AFT2-10x2.5M										64	
	6 mm	AFT4-10x1.5M										67	
	10 mm	AFT5-10x2M										76	
	12 mm	AFT5-10x2.4M										78	
	20 mm	AFT6-10x3.3M										81	
7/16"	0.125	AFT2-4316	0.77	2.00	0.20	1.50	0.20	0.06	0.71	1.125	10 lbs	55	2 - 5
	0.250	AFT2-4308										65	
	0.500	AFT4-4308										76	
1/2"	0.063	AFT5016	0.88	2.03	0.25	1.62	0.20	-	-	1.250	25 lbs	30	3 - 7
	0.100	AFT5010										41	
	4mm	AFT2-50x2M										52	
	0.200	AFT2-5010										57	
	0.250	AFT2-5008										62	
	0.500	AFT4-5008										75	
	0.800	AFT8-5010										80	
	1.000	AFT8-5008										81	