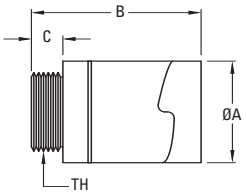
Advanced Anti-Backlash Supernuts®

XCM 1800

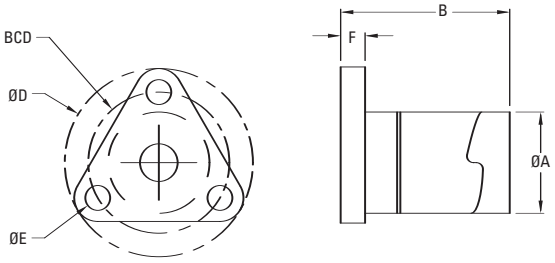
Our smallest anti-backlash nut design ever. The XCM 1800 uses the same patented† ActiveCAM™ mechanism as its larger siblings in a miniaturized package. This allows backlash free operation in space critical applications requiring high accuracy and low drag torque. This cost effective solution is available 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 32. Specify XCMT or XCMF when ordering, see drawings at right.

XCMT 1800



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
6mm*	1mm	**XCM_6x1**										29	
1/4"*	0.0125	**XCM_2580**										13	
	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**										41	
	0.063	**XCM_2516**										48	
	0.250	**XCM_4-2516**										76	
	0.500	**XCM_7-2514**										81	

* V-Thread screws, see page 35.
† Patent No. 5839321

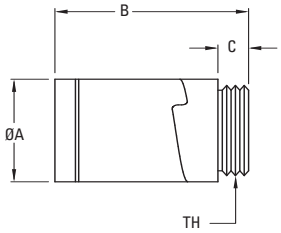
Advanced Anti-Backlash Supernuts®

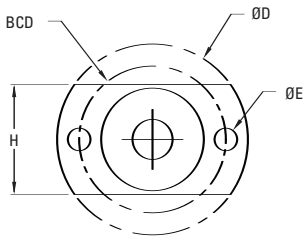
XC 2500

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

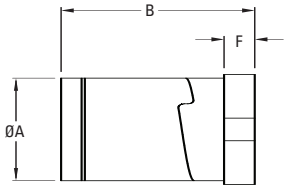
Note: See Screw Section on page 32. Specify XCT or XCF when ordering, see drawings at right.

XCT 2500





XCF 2500



Dia.	Lead	Part No.	Supernut® Dimensions									Design Load	Efficiency %	Drag Torque oz-in
			A	B	C	D	E	F	H	BCD	TH			
3/16"	0.050	**XC_1820**	0.64	1.18 (max)	0.187	1.19	0.141	0.16	0.66	0.900	9/16"-18	10 lbs	49	< 1
6mm*	1mm	**XC_6x1**											29	
1/4"*	0.0125	**XC_2580**											13	
	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	
	0.0417	**XC_2524**											34	
1/4"	0.050	**XC_2520**											41	
	0.063	**XC_2516**											48	
	0.250	**XC_4-2516**											76	
	0.500	**XC_7-2514**											81	

* V-Thread screws, see page 35.
† Patent No. 5839321

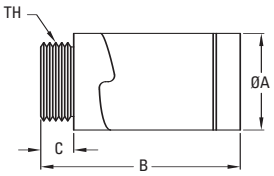
Advanced Anti-Backlash Supernuts®

XC 3700

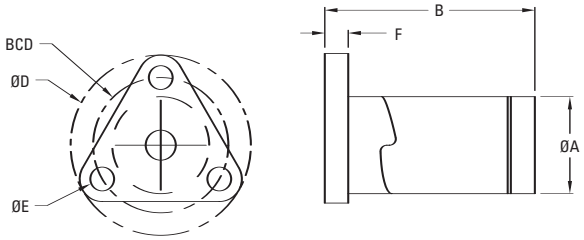
The XC Model Anti-Backlash assembly is the most advanced Anti-Backlash nut design. The unique patented† ActiveCAM™ accomplishes high axial stiffness, zero backlash and the absolute minimum drag torque. This advantage produces assemblies that cost less, perform better and last longer. The ActiveCAM™ automatically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

Note: See Screw Section on page 32. Specify XCT or XCF when ordering, see drawings at right.

XCT 3700



XCF 3700



Dia.	Lead	Part No.	Supernut® Dimensions								Design Load	Efficiency %	Drag Torque oz-in
			A	B	C	D	E	F	BCD	TH			
5/16"	0.083	**XC_3112**	0.82	1.875 (max)	0.25	1.5	0.2	0.2	1.125	5/8"-18	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"	0.063	**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	
	0.375	**XC_4-3711**										75	
	0.500	**XC_4-3708**										79	
10mm	2mm	**XC_10x2M**										41	
	3mm	**XC_10x3M**										53	
	5mm	**XC_2-10x2.5M**										64	
	6mm	**XC_4-10x1.5M**										67	
	10mm	**XC_5-10x2M**										76	
	20mm	**XC_6-10x3.3M**										81	
	35mm	**XC_10-10x3.5M**										81	

† Patent No. 5839321

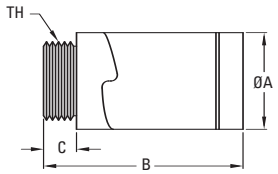
Advanced Anti-Backlash Supernuts®

XC 5000

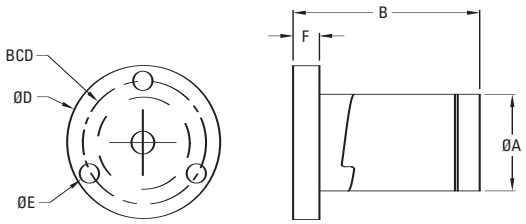
The XC 5000 utilizes the same patented† ActiveCAM™ as found in the XC 3700 model. Along with the very low drag torque and high axial stiffness advantages, the XC 5000 has greater load capacity.

Note: See Screw Section on page 32. Specify XCT or XCF when ordering, see drawings at right.

XCT 5000



XCF 5000



Dia.	Lead	Part No.	Supernut® Dimensions								Design Load	Efficiency %	Drag Torque oz-in
			A	B	C	D	E	F	BCD	TH			
7/16"	0.125	**XC_2-4316**	1.12	2.25 (max)	0.375	1.75	0.2	0.3	15/16-16	1.406	125 lbs	55	1 - 3
	0.250	**XC_2-4308**										65	
	0.500	**XC_4-4308**										76	
12mm	3mm	**XC_12x3M**										48	
	4mm	**XC_2-12x2M**										54	
	5mm	**XC_2-12x2.5M**										59	
	6mm	**XC_3-12x2M**										63	
	10mm	**XC_4-12x2.5M**										73	
	15mm	**XC_6-12x2.5M**										78	
	25mm	**XC_10-12x2.5M**										82	
	45mm	**XC_15-12x3M**										81	
1/2"	.0625	**XC_5016**										30	
	0.100	**XC_5010**										41	
	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

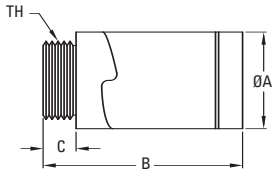
Advanced Anti-Backlash Supernuts®

XC 6200

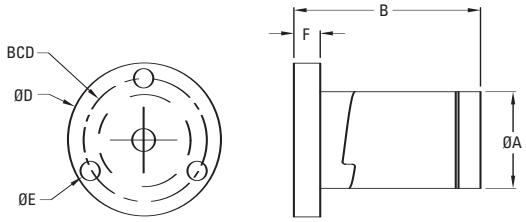
The XC 6200 utilizes the same patented† ActiveCAM™ as found in the XC 5000 model. Along with the very low drag torque and high axial stiffness advantages, the XC 6200 has greater load capacity.

Note: See Screw Section on page 32. Specify XCT or XCF when ordering, see drawings at right.

XCT 6200



XCF 6200



Dia.	Lead	Part No.	Supernut® Dimensions								Design Load	Efficiency %	Drag Torque oz-in
			A	B	C	D	E	F	BCD	TH			
5/8"	0.100	**XC_6210**	1.40	2.60 (max)	0.5	2.13	0.22	0.5	1.688	1.25-16	175 lbs	35	2 - 6
	0.125	**XC_6208**										40	
	4mm	**XC_62x4M**										46	
	0.200	**XC_2-6210**										51	
	0.250	**XC_2-6208**										57	
	0.500	**XC_4-6208**										71	
16mm	4mm	**XC_16x4M**										47	
	5mm	**XC_2-16x2.5M**										52	
	8mm	**XC_4-16x2M**										63	
	16mm	**XC_7-16x2.3M**										75	
	25mm	**XC_5-16x5M**										80	
	35mm	**XC_7-16x5M**										82	

† Patent No. 5839321

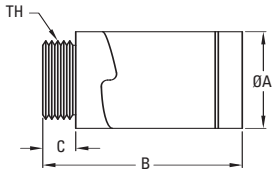
Advanced Anti-Backlash Supernuts®

XC 7500

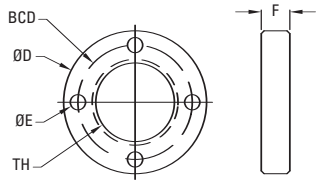
The XC 7500 utilizes the same patented† ActiveCAM™ as found in the XC 5000 model. Along with the very low drag torque and high axial stiffness advantages, the XC 7500 has greater load capacity.

Note: See Screw Section on page 32.

XCT 7500



Flange F75



Dia.	Lead	Part No.	Nut Dimensions			TH	Flange Dimensions (Optional)				Design Load	Efficiency %	Drag Torque oz-in
			A	B	C		D	E	F	BCD			
3/4"	0.100	**XCT7510**	1.63	2.9 (max)	0.5	1 3/8 - 16	2.5	0.27	0.50	2.00	250 lbs	31	3 - 10
	0.125	**XCT7508**										36	
	0.167	**XCT7506**										44	
	0.200	**XCT7505**										49	
	0.500	**XCT5-7510**										69	
	1.000	**XCT8-7508**										79	
	2.000	**XCT10-7505**										82	
20mm	4mm	**XCT20x4M**										41	
	8mm	**XCT2-20x4M**										59	
	12mm	**XCT3-20x4M**										67	
	16mm	**XCT4-20x4M**										72	
	20mm	**XCT5-20x4M**										76	
	45mm	**XCT9-20x5M**										82	

† Patent No. 5839321

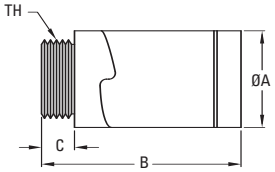
Advanced Anti-Backlash Supernuts®

XC 10000

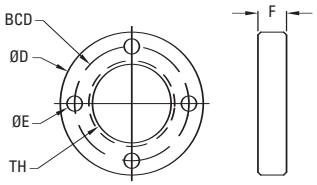
The XC 10000 utilizes Thomson BSA's patented† ActiveCAM™ technology to provide very low drag torque, high axial stiffness and maximum wear life. This self compensating design produces excellent positional repeatability while insuring consistent performance for the long run.

Note: See Screw Section on page 32.

XCT 1000



Flange F100



Dia.	Lead	Part No.	Nut Dimensions			TH	Flange Dimensions (Optional)				Design Load	Efficiency %	Drag Torque oz-in
			A	B	C		D	E	F	BCD			
24mm	5mm	**XCT24x5M**	1.88	3.0 (max)	0.60	1 9/16-18	3.0	0.27	0.60	2.37	350 lbs	42	5-15
1"	0.100	**XCT1010**										25	
	0.125	**XCT1008**										29	
	0.200	**XCT1005**										41	
	0.250	**XCT1004**										47	
	0.500	**XCT5-1010**										61	
	1.000	**XCT10-1010**										74	

† Patent No. 5839321