POWERLOK® II™ SCREWS CONTINEEMIND ALL-METAL LOCKING FASTENERS



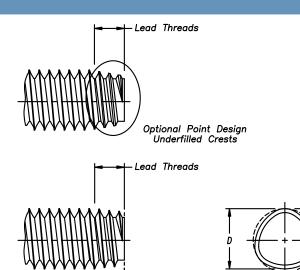
POWERLOK[®] II™ Screws

Designed for the Demanding Locking Applications of Today & Tomorrow

POWERLOK[®] II™ TRILOBULAR[®] All-Metal Locking Fasteners Solve Assembly Problems and Reduce Your In-Place Fastening Costs.

Leaders in Lowering the Cost of Assembly

POWERLOK® II[™] SCREWS ALL-METAL LOCKING FASTENERS



POWERLOK® II™ Fastener Geometry

Thread Profile:

The innovative Dual-Angle™ thread form provides "live-action" locking.

The deflection of the thread tip creates classic "stored energy" locking.

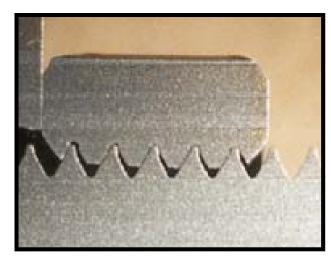
Interferes in the root of the nut thread. Locking is not affected by an incomplete internal thread form.

TRILOBULAR® Body:

Capitalizes on elastic memory of nut member.

Further prevents vibrational loosening by providing additional locking action.

Reduces friction during installation.

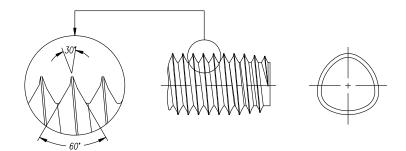


Spring action of the Dual-Angle™
Thread Profile

POWERLOK® II™ Fastener Advantages

- No need for patches, adhesives or assembly line applied locking compounds.
- Locking action is over the entire length of the screw thread.
- Locking action is not affected by temperature.
- No adhesive curing time—instantaneous locking action.
- No need for under head locking elements.
- No need for costly lock washers.
- Works with all finishes.
- Easily hand started.

POWERLOK® II™ SCREWS ALL-METAL LOCKING FASTENERS



Inch Series				
Screw Size	LIMITS	Screw	Body	
0.20		С	D	
4-40	MAX	0.1170	0.1145	
	MIN	0.1120	0.1095	
5-40	MAX	0.1310	0.1285	
	MIN	0.1250	0.1225	
6-32	MAX	0.1470	0.1439	
	MIN	0.1410	0.1379	
8-32	MAX	0.1725	0.1694	
0-32	MIN	0.1665	0.1634	
10-24	MAX	0.2050	0.2008	
10-24	MIN	0.1980	0.1938	
10-32	MAX	0.1995	0.1964	
10-32	MIN	0.1925	0.1894	
12-24	MAX	0.2310	0.2268	
	MIN	0.2240	0.2198	
1/4-20	MAX	0.2695	0.2645	
	MIN	0.2615	0.2565	
1/4-28	MAX	0.2625	0.2589	
	MIN	0.2545	0.2509	
5/16-18	MAX	0.3315	0.3259	
3/10-10	MIN	0.3235	0.3179	
3/8-16	MAX	0.3945	0.3883	
	MIN	0.3865	0.3803	
7/16-14	MAX	0.4595	0.4524	
	MIN	0.4515	0.4444	
1/2-13	MAX	0.5235	0.5158	
	MIN	0.5155	0.5078	

Metric Series

Screw	LIMITS	Screw Body	
Size		С	D
M2.0 x 0.40	MAX	2.15	2.11
	MIN	2.05	2.01
M2.5 x 0.45	MAX	2.66	2.62
	MIN	2.56	2.52
M3.0 x 0.50	MAX	3.18	3.13
	MIN	3.08	3.03
M3.5 x 0.60	MAX	3.69	3.63
	MIN	3.59	3.53
M4.0 x 0.70	MAX	4.22	4.15
144.0 X 0.70	MIN	4.10	4.03
ME 0 v 0 90	MAX	5.26	5.18
M5.0 x 0.80	MIN	5.13	5.05
M6.0 x 1.00	MAX	6.30	6.20
	MIN	6.15	6.05
M9.0 v 1.2E	MAX	8.35	8.23
M8.0 x 1.25	MIN	8.20	8.08
M10.0 v 1.50	MAX	10.40	10.25
M10.0 x 1.50	MIN	10.25	10.10
M12.0 x 1.75	MAX	12.45	12.28
M12.0 X 1.75	MIN	12.30	12.13
M14.0 x 2.00	MAX	14.50	14.30
	MIN	14.35	14.15
M16.0 x 2.00	MAX	16.55	16.35
	MIN	16.40	16.20

Length Tolerance - Inch - Per ANSI B18.6.3			
Nominal	Nominal Screw Size		
Screw Length	#4 - #12	1/4" - 1/2"	
	Tolerance On Length		
To 1/2" Inclusive	+0,020	+0,030	
Over 1/2" to 1" Inclusive	+0,030	+0,030	
Over 1" to 2" Inclusive	+0,060	+0,060	
Over 2"	+0,090	+0,090	

Length Tolerance - Metric - Per ANSI B18.6.7M		
	Tolerance on Length	
Nominal Screw Length	mm	
To 3mm included	± 0.2	
Over 3 to 10mm	± 0.3	
Over 10 to 16mm	± 0.4	
Over 16 to 50mm	± 0.5	
Over 50mm	± 1.0	

REMINC/CONTI

Research Engineering & Manufacturing Inc. (REMINC) and CONTI Fasteners AG (CONTI) have successfully marketed TAPTITE® fastener technology internationally since 1961. Their success has been accomplished by licensing and training leading fastener producers worldwide.

The technical program in the United States is under the direction of REMINC, located in Middletown, Rhode Island and in other countries under the direction of CONTI, situated in Baar, Switzerland.

Although REMINC and CONTI are separate corporations and operate independently, each is dependent on the other for certain functional activities.

AVAILABILITY

Currently there are 68 qualified producers located in 20 countries utilizing the Technical Know-How, Patents, Trademarks, and Engineering and Marketing services of REMINC/CONTI. These producers delivered a volume in excess of 17,000,000,000 pieces of TRILOBULAR® fasteners in 2000, comprising a mix of products.

The proprietary products available in the program are marketed and sold, not as fastener items, but rather as COST REDUCTIONS TO END-USERS OF ASSEMBLED PRODUCTS.

The proprietary fasteners offered to the assemblers are the means to an end, i.e. used to generate cost reductions while at the same time providing reliably tightened joints.

ORDERING/SUPPLY

When ordering from qualified TRILOBULAR® fastener producers, be sure in all cases to specify the TAPTITE 2000® brand name, thread size, nominal length, head and point style, strength grade if CORFLEX®-'N' or CORFLEX®-'I' is involved, any other special features required, finish, and of course, quantity.

DISCLAIMER CLAUSE

The values shown in this brochure are for guidance only. They are not meant to be used for design criteria. Their use and reliance thereon for any purpose by anyone is entirely voluntary and at the sole risk of the user. REMINC/CONTI are not responsible for any loss, claim, or damage resulting from their use. Consult our application engineers or the application engineering department of one of our many qualified producers for your specific application data.

TECHNICAL ASSISTANCE

This brochure contains basic information needed to achieve the cost-savings potential of TAPTITE 2000® fasteners.

To obtain further assistance and a list of qualified producers, visit our website at www.taptite.net or contact;

In North America;

REMINC

Tel: 401-841-8880 Fax: 401-841-5008 Email: reminc@reminc.net

In Europe and all other countries; CONTI Fasteners AG

> Tel: +41 (0)41/761 58 22 Fax: +41 (0)41/761 30 18 Email: conti@contifasteners.ch

SERVICES

A summary of the capabilities of REMINC/CONTI in support of manufacturers:

Technical Support

- New Product Development
- Research and Development Reports
- Technical Manuals
- Technical Reports
- Technical Information Updates
- Engineering Consultation
- Computer Aided Design and Analysis
- Engineering Training
- Tooling Design and Procurement
- · Manufacturing Guidance
- Manufacturing Cost Reduction
- Metallurgical Analysis
- End-User Application Guidance
- Technical Training Seminars

MARKETING SUPPORT

- Application Definition
- Application Reports
- Performance
 Documentation
- Sales Seminars
- Audio/Video Materials
- Graphics
- Customer Product Brochures
- Technical Liaison
- Joint Customer Visits
- Cooperative Studies
- Trademark and Patent Use

In addition to the above stated detail, REMINC/CONTI are positioned to provide:

- Contract Testing
- Contract Engineering
- Consultation Activities
- Contract Joint Analysis
- Fastener Engineering Training



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