Head Dimensions: All TRILOBULAR™ screws and bolts can be provided with any standard head style, to ISO, ANSI or any other international standard.

Lengths: TAPTITE II®, DUO-TAPTITE® and POWERLOK® screws and bolts are manufactured to applicable local standards on thread length and screw length. Tolerances listed in brochure are suggested only. Due to the greater manufacturing variation in producing gimlet pointed screws, EXTRUDE-TITE® and TAPTITE® CA screws are manufactured to tolerances as stated on Page 13. PLASTITE® and PUSHTITE® II screws are manufactured to length tolerances as stated on Pages 18 - 20.

Available Sizes: Sizes listed are the most popular standard sizes. TRILOBULAR™ products can be supplied in standard miniature screw and large bolt sizes not listed. Special size/thread combinations are also available.

Materials: TRILOBULAR™ screws and bolts are manufactured from low to medium carbon steel in the case hardened version and from various grades of alloy steel to meet the grade strength requirements of CORFLEX®-I selective hardened version.

Metallurgy: TAPTITE II® screws are supplied in two metallurgical categories; case hardened or selective hardened to REMINC CORFLEX® grade strength levels. Applicable standards would include SAE-J 81 for inch screws and SAE-J 1237 for metric. TAPTITE II® CORFLEX®-I screws can be supplied to metric grades equivalent to 8.8, 10.9 and 12.9 and inch Grades 8 and 5 to special hardness and toughness requirements.

Case hardened fasteners are not recommended for use in die cast or extruded aluminum or zinc particularly when galvanic conditions, severe load or thermal cycling is present. CORFLEX®-I or CORFLEX®-N are recommended for these conditions.

As hardened fasteners are not recommended for use in die cast or extruded aluminum or zinc particularly when galvanic conditions, severe load or thermal cycling is present. CORFLEX®-I or CORFLEX®-N are recommended for these conditions.

POWERLOK® screws are manufactured to metric Grade 10.9 or inch Grade 8. POWERLOK® screws can be provided as case hardened but are not recommended unless used in a light duty application.

All TRILOBULAR™ products can be produced in various stainless steel grades or from non-ferrous materials. (Stainless steel and non-ferrous products have limitations on thread forming capabilities.)

Finish: TRILOBULAR™ screws and bolts can be supplied with all commercially available finishes and coatings. Electroplated finishes should be avoided on high strength grades. The addition of a wax lubricant is recommended on high surface friction finishes such as zinc. Electroplated fasteners should be baked.

Options: All TRILOBULAR™ products can be supplied with several optional configurations, i.e. with shoulders, dog points, and with washer assembly. TAPTITE II® screws can be supplied with optional captive point or with “CA” gimlet point (see Page 5).

Optional Extras: Tables in this brochure cover only the standard, thread configurations and point styles available on TAPTITE II®/DUO-TAPTITE®/CORFLEX® parts. Many variations are possible including:

• Sems versions with captive washers. Extra large heads and/or underhead collars to suit individual needs;
• Underhead earthing nibs to ensure earth continuity through painted surfaces;
• Unrolled root diameter dog points to assist location;
• Unrolled pitch-diameter 'captive' dog points for extra security;
• Partly threaded shanks for captive screws in cover plates;
• Security drive systems for tamper resistance.

Performance: TAPTITE II® and DUO-TAPTITE® screws in either case hardened or CORFLEX® version meet or exceed the performance requirements of SAE-J 81, J 1237, DIN 7500, GM 6171M, GM 6202M, Ford WD-951, Ford WD-952, Ford ES-20003-S100 as well as several other automotive, OEM, and industrial specifications. POWERLOK® screws meet the performance requirements of IFI-124 and 524. The following are aids to assist on the use of TAPTITE II® and DUO-TAPTITE® fasteners.

Percent thread chart . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Page 8
Pilot hole sizes . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Page 9
Typical torque performance . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Page 10
Typical single punch extruded holes . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Pages 11 & 12
Die cast cored holes . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Page 12
CORFLEX® . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Page 21

INSPECTION PROCEDURE: TRILOBULAR™ products can be checked with standard micrometers for D and 60° veer-anvil micrometers for C. Alternatively, C may be gauged using plain-hole ring gauges. These must have accurate holes as tabled for minimum and as tabled plus .025mm (.001 inch) for maximum.

DISCLAIMER CLAUSE
The values shown are for guidance only. They are not 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 is not responsible for any loss, claim, or damage resulting from their use. Consult your application engineers or the application engineering department of one of our many qualified producers for your specific application data.

ORDERING/SUPPLY:
When ordering from qualified TRILOBULAR™ producers, be sure in all cases to specify thread size, nominal length, head and point style, whether it is TAPTITE II® or DUO-TAPTITE® etc., strength grade if CORFLEX®-N or CORFLEX®-I is involved, any other special features required, finish and quantity.

TECHNICAL ASSISTANCE:
This brochure contains basic information needed to achieve the cost savings potential of TRILOBULAR™ fasteners.

To obtain further assistance and a list of qualified manufacturers, call REMINC at 401-841-6880 or E-mail at reminc@reminc.net.

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