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MILITARY HANDBOOK

LISTING OF FASTENER MANUFACTURERS' IDENTIFICATION SYMBOLS



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DEPARTMENT OF DEFENSE
WASHINGTON, D.C. 20301

Listing of Fastener Manufacturers' Identification Symbols

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3. Copies of this Military Handbook may be obtained from Naval Publications and Forms Center (NPFC), Code 1032, 5801 Tabor Road, Philadelphia, PA 19120, PH. # (215) 697-1187.

FOREWORD

This handbook is a compilation of the identifying symbols of fastener manufacturers as provided by the manufacturers themselves. This issue contains the names, addresses, and the symbols of all fastener manufacturers whose identifying symbols were received by August 31, 1990. For the purpose of this handbook, manufacturer is defined as the source which substantially makes the supplies, either by hand or machinery out of raw materials. Fasteners, as defined for the purpose of this handbook, refer to those threaded items included in Federal Stock Code (FSC) 5305 - Screws, 5306 - Bolts, 5307 - Studs and 5310 - Nuts. As additional manufacturers submit their markings, the handbook will be updated.

All requests to be listed in the handbook shall be addressed to:

Defense Industrial Supply Center
Attention: DISC-ESA
700 Robbins Avenue
Philadelphia, PA 19111-5096
USA

In addition to the alphabetic index of manufacturers (Index A), this revision of the handbook incorporates a listing of manufacturers indexed by their identification symbol (Index B).

At the back of this handbook is Registration Form FL-207. Manufacturers wishing to be listed must complete this form and return it to DISC. The submittal must be accompanied by a reproducible copy of the symbol used on the fastener. All submittals must be in the English language.

DISC does not "approve", "rate", or "endorse" any item, construction, proprietary device, or activity.

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DISC reserves the right to monitor this document to ensure that it contains the listing of only bona-fide fastener manufacturers.

DISC has solicited the assistance of the Defense Contract Administration Services (DCAS) and the Defense Contract Management Command International (DCMCI) in an effort to identify non-manufacturers and remove them from the manufacturers' listing. DCAS/DCMCI's evaluation of a company's status is based on an inhouse capability to manufacture fasteners (screws, bolts, studs and nuts), with respect to space, equipment and trained personnel. On an on-going basis, any company identified by DCAS/DCMCI as a non-manufacturer will be removed from the manufacturers' database and MIL-HDBK-57A(IS).

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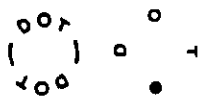
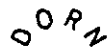
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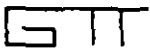
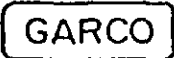
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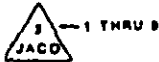
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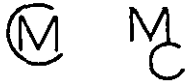
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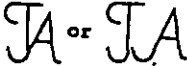
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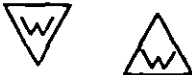
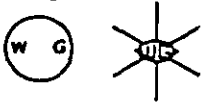
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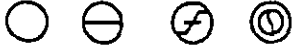
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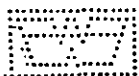
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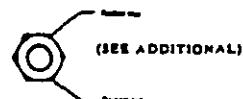
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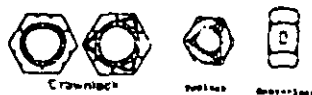
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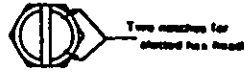
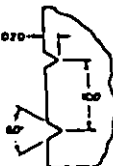
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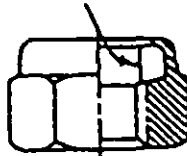
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60529	STERLING MFG. & SUPPLY CO.	95
61062	COMET MFG. CO., INC.	26
71838	SPS TECHNOLOGIES	93
80539	SPS TECHNOLOGIES	93
84256 ^(A)	AVIBANK CO.	11
8M938	PRODUCTS DESIGN & MFG. CORP.	82
8F781	STEVENS MFG. CO., INC.	96

LISTINGS

A & G ENGINEERING CO. II INC. 4640 East LaPalma Anaheim, CA 92807 	A & W SCREW MACHINE PRODUCTS, INC. 1504 Columbia Avenue Unit #1 Riverside, CA 92507 
A & N PRECISION INDUSTRIES 65 First Street New Rochelle, NY 10801-6118 	ABBOTT-INTERFAST CORP. 190 Abbott Drive Wheeling, IL 60090 Yellow nylon insert identifies Abbott-Interfast Corp. as manufacturer. 
A & R MFG CO., INC. P.O. Box 241 South Windsor CT 06074-203 Plant - 1281 John Fitch Blvd. South Windsor CT 06074 	PETER ABBOTT & CO. (AEROSPACE) 1982 LTD. 6 Repton Close Burnt Mills Basildon, Essex SS13 1LE GREAT BRITAIN PAM PAM PAM

MIL-HDBK-57B(1S)

ACCUFORM, INC.
Bus. Hwy 36 West
P.O. Box 307
Macon, MO 63552



ACCURATE AUTOMATIC PARTS INC.
2885 S. 163rd Street
New Berlin, WI 53151



ACCURATE PRECISION FASTENERS CORP.
20 Honeck Street
Englewood, NJ 07631



ACCURATE THREADED FASTENERS, INC.
3550 West Pratt Avenue
Lincolnwood, IL 60645



ACE GRINDING & MFG. OF TEXAS
3612-N South Cooper
Arlington, TX

Plant
ACE GRINDING & MFG. CO.
4937 E. Slauson
Maywood, CA 90270



ACE PRECISION INDUSTRIES, INC.
850 Noe Drive
Akron, OH 44310



ACI
P. O. Box 398
Ottawa, KS 66067



ACME MACHINE PRODUCTS 500 South Varney Street Burbank, CA 91502  Lower case "a" inside circle 1/16 in. dia.	AERO ENGINEERING AND MANUFACTURING CO. P. O. Box 3985 Glendale, CA 91201-0985 <i>Plant</i> 6655 San Fernando Road Glendale, CA 91201-0985 
ADAMS, EARL M. CO. Peck Hill Rd. Johnston, RI 02919-4599  	AEROFAST SUPPLY 479 West 6th Street San Pedro, CA 90731 
ADC INC. 17528 Studebaker Road Cerritos, CA 90701 	AEROQUIP CORPORATION Aerospace Division 300 S. East Avenue Jackson, Michigan 49203 
AERO COMPONENTS CO. 419 West Fork Dr. P.O. Box 120157 Arlington, TX 76012 	AEROSPACE MANUFACTURING INC. P. O. Box 941 Lodi, NJ 07644 <i>Plant</i> 55 Contant Avenue Lodi, NJ 07644 

MIL-KDBK-57B(1S)

AEROSTAR FASTENER CORP.
P.O. Box 2201
Palestine, TX 75802

Plant
712 W. Lacy St.
Palestine, TX 75801



AIRCRAFT ENGINEERING PRODUCTS,
INC.
2 Ackerman Avenue
Clifton, NJ 07011

AEP AEP

AIRCRAFT FUELSEAL FASTENERS, INC.
Aerotite Blind Rivet Division
5271 Argosy Avenue
Huntington Beach, CA 92649

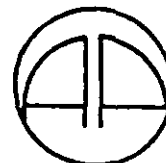


AFI INDUSTRIES, INC.
P. O. Box 88060
Carol Stream, IL 60188

Plant
475 East Kehoe Boulevard
Carol Stream, IL 60188



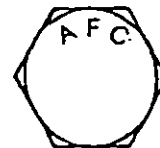
AIRDROME PARTS CO.
3251 Airport Way
Long Beach, CA 90806



AIR-COM, INC.
18105 S. Hobart Blvd.
Gardena, CA 90248-3617

AIR-CO
1945
/ NC.

AIRFASCO, INC.
207 Schneider Road S. E.
North Canton, OH 44720



AIR INDUSTRIES CORP. 12570 Knott Street Garden Grove, CA 92641 A	ALBAR MACHINE CORPORATION RD 2, Box 2463 Effort, PA 18330 AMC
ALCO MACHINE CO. 227 Greylock Parkway Belleville, NJ 07109 A-1	ALLFAST FASTENING SYSTEMS, INC. P.O. Box 3166 City of Industry, CA 91745-1098 Plant 15200 Don Julian Road City of Industry, CA 91745-1098 F
ALAN, JEFFREY, MFG. & ENGR. 8625 Lapeer Road P.O. Box #8 Goodells, MI 48027-0008 3D531	ALLIED PRECISION PRODUCTS, INC. 600 San Christopher Drive Dunedin, FL 34698-5098 APP

MIL-HDBK-57B(1S)

ALL-POWER MFG. CO.
 13141 Molette Street
 Santa Fe Springs, CA 90670-5500

AP

ALL-PRO FASTENER & RIVET MFG. CO.
 P.O. Box 1525
 Rancho Cucamonga, CA 91730

Plant
 10406 Enterprise St.
 Rancho Cucamonga, CA 91730

AP

ALL-STATES INC.
 1801 West Foster Avenue
 Chicago, IL 60640



ALL-STATES LOGO



ALL-STATES
 IDENTIFICATION MARK

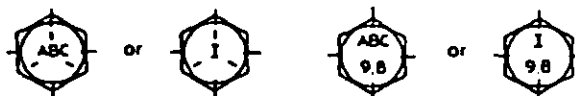
AS ALL-STATES

ALL-STATES
 SIGNATURE

ALL-STATES

ALL-STATES
 ABBREVIATED SIGNATURE

ALPHA BOLT CO.
 1524 East 14 Mile Road
 Madison Heights, MI 48071

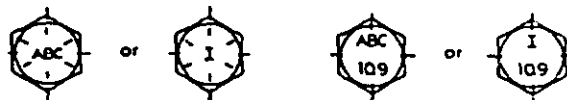


GRADE 5 BOLT

PROPERTY CLASS 9.8
 METRIC BOLTS



Roman numeral "I" shown on special bolts



GRADE 8 BOLT

PROPERTY CLASS 10.9
 METRIC BOLTS

ALPINE MACHINE & TOOL CORP.
 42 Bergenline Ave.
 Westwood, NJ 07675

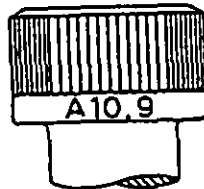
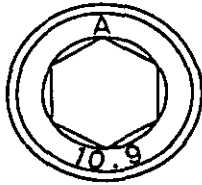
AMT-I

AMTxxxx-xxxx



MIL-HDBK-57B(1S)

ALPS SEIKO CO., LTD.
41 Higashi-Kanae, Kanae
Iida-Sbi, Nagano-Ken



AMCO TOOL & DIE CO., INC.
110 W. Turbo Dr.
San Antonio, TX 78216



AMERICAN ELECTRIC
Construction Materials Group
1555 Lynnfield Road
Memphis, TN 38119

Plant
Route 1, Congress Pkwy.
Athens, TN 37303

Plant
8735 Hamilton Road
Southhaven, MS 38671



AMANDA BENT BOLT CO.
P.O. Box 1027
Logan, OH 43138-4027

Plant
1120 C.I.C. Drive
Logan, OH 43138



AMERICAN-MONARCH CORP.
5900 Park Avenue
Cleveland, OH 44105

AM

AMATOM ELECTRONIC HARDWARE
(Division of Quincy Technologies, Inc.)
446 Blake Street
New Haven, CT 06515

A
M
A
T
O
M

AMATOM

AMERICAN QUALITY INDUSTRIES
Fastener Division
35 Thomas Street
East Hartford, CT 06108



GRADE 8 BOLT



GRADE 5 BOLT

MIL-HDBK-57B(1S)

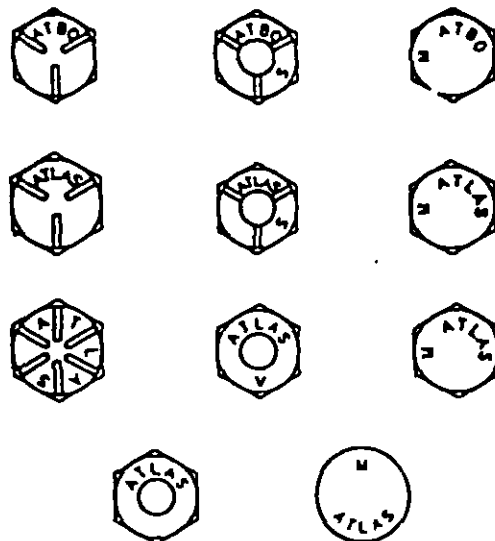
AMERIFAST, CORP. 355 Dalziel Road Linden, NJ 07036 A The letter "A" is placed in one chamfered corner on one side of the nut.	ANILLO INDUSTRIES, INC. P. O. Box 5586 Orange, CA 92613-5586 <i>Plant</i> 2090 North Glassell Street Orange, CA 92665-3391 
ANATASE PRODUCTS P.O. Box 271 Tehachapi, CA 93581 <i>Plant</i> 1314-C Goodrick Dr. Tehachapi, CA 93561 	APCOA FASTENERS INC. Aerospace Products Company Aerospace Engine Parts Group P.O. Box 796 Indianapolis, IN 46206-0796 <i>Plant</i> 123 North Pine Street Indianapolis, IN 46202 AP
ANDERSON FORGE & MACHINE 18500 S. W. Pacific Highway Sherwood, OR 97140-9148 	APEL LTD. Countess Avenue, Stanley Green Trading Estate, Cheadle Hulme, Cheshire SK8 6QU GREAT BRITAIN 

APEX MFG. CO., INC.
 P.O. Box 9369
 N. Hollywood, CA 91609

Plant
 7358 Radford Ave.
 N. Hollywood, CA 91605



ARMSTRONG ATLAS BOLT (Darlaston)
 P. O. Box 6, Station Street
 Darlaston, West Midlands WS10 8UL
 GREAT BRITAIN



ARCO SALES CO.
 2211 Wakeling Street
 Philadelphia, PA 19137-1299

ASC

Radial marking

ASC

Straight marking

ARMSTRONG FASTENING SYSTEMS
 Clough Road
 Hull HU6 7PR
 GREAT BRITAIN



Symbol may
 be depressed
 or raised

ARDOR MFG. INC.
 400 S. 1100 W.
 Provo, UT 84601



L. & C. ARNOLD GmbH
 Schraubenfabrik Ernsbach
 Sindringer Strasse
 7119 Forchtenberg-Ernsbach
 FEDERAL REPUBLIC OF GERMANY



MIL-HDBK-57B(1S)

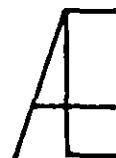
ARVAN, INC.
 1520 W. 139th Street
 Gardena, CA 90249

ARVAN, INC.

TANSEY

A/I

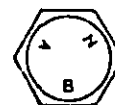
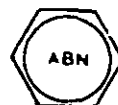
ATLAS ENGINEERING, INC.
 173 Osceola Ave.
 Tallmadge, OH 44278-2700



ASAHI SCREWS MANUFACTURING CO.,
 LTD.
 101 Kawamata
 Higashiosaka
 JAPAN

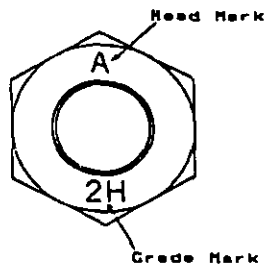


AUTO BOLT AND NUT CO.
 4619 Perkins Avenue
 Cleveland, OH 44103



ASAI TEKKO CO., LTD.
 2-14 Tajika Shodai
 Hirakata-shi Osaka
 573 JAPAN

A



AUTO SCREW, INC.
 Lynbrook Rd. & Eastern Blvd.
 P.O. Box 4968
 Baltimore, MD 21220



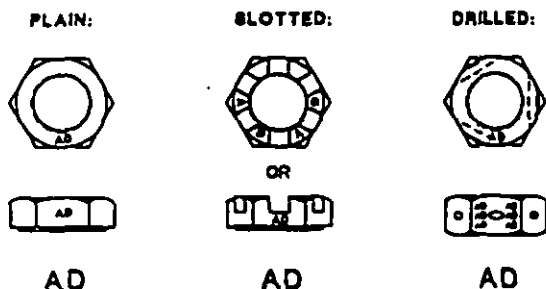
MIL-HDBK-57B(1S)

AUTOMATED MANUFACTURING
 11265 Goodnight Ln. #1024
 Dallas, TX 75229

AM

**AUTOMATIC SCREW MACHINE
 PRODUCTS CO.**
 P. O. Box 1608
 Decatur, AL 35602

Plant
 709 2nd Avenue SE
 Decatur, AL 35601



The letters AD on top or hex flat surfaces may be continuous markings if on hex flat; may be depressed or raised.

AVDEL INTERNATIONAL
Avdel Ltd.,
 Mundells, Welwyn Garden City
 Hertfordshire AL7 1EZ
 GREAT BRITAIN

U.S. Plant
 Avdel, Division of N.I.I.
 50 Lackawanna Avenue
 Parsippany, NJ 07054



AVIBANK MANUFACTURING, INC.
 P. O. Box 391
 Burbank, CA 91503

Plant
 210 South Victory Boulevard
 Burbank, CA 91503

ET ETC. Structural panel fasteners

AVILOK® Structural panel fastener

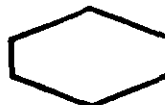


Rivet nut marking and other special products

"84256®"

Manufacturer's code

"HI-TORQUER®" Manually operated placing tool



Special part markings and rivet nut marking

BALL-LOK® Quick release pin

AVIBANK

Name of manufacturer — name marked on parts



Threaded insert



Threaded insert



Threaded insert



Threaded insert



Threaded insert



Threaded insert

MIL-HDBK-57B(1S)

AZTECH ENGINEERING, INC.
 5020 Chase Ave.
 Downers Grove, IL 60515



B & E MANUFACTURING CO., INC.
 P. O. Box 2156
 Garden Grove, CA 92642

Plant
 7562 Orangewood Street
 Stanton, CA 90680



B & B SPECIALTIES INC.
 4321 E. LaPalma
 Anaheim, CA 92807



Raised BB is for new manufactured parts.
 Depressed BB is for old stock parts.

B & G MANUFACTURING CO., INC.
 P. O. Box 269
 3067 Unionville Pike
 Hatfield, PA 19440



or



Grade 5

JB7

Grade B7

JB16

Grade B16

JNC

Alloy 400



Alloy 500

J4

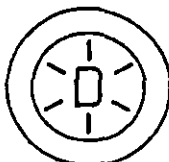
Grade 4

J2H

Grade 2H

B & D THREAD ROLLING, INC.
 P.O. Box 275
 Wayne, MI 48184

Plant
 36820 Van Born Rd.



B & N TOOL CO., INC.
 151 John Downey Drive
 New Britain, CT 06051



BARCAR FASTENING PRODUCTS (Division
 of McHugh Screw Inc.)
 P. O. Box 1381
 Willow Grove, PA 19090



BAUER & SCHAURTE KARCHER GmbH
 Further Strasse 24 - 26
 Postfach 10 01 55
 D-4040 Neuss 1
 FEDERAL REPUBLIC OF GERMANY

INBUS®

BARCO ENGINEERING COMPANY, INC.
 P.O. Box 328
 Tilton, NH 03276



VERBUS® KARRO®

BBC FASTENERS, INC.
 4210 Shirley Lane
 Alsip, IL 60658



BARRE AEROSPACE PRODUCTS, INC.
 199 Hop River Road Rte 6
 Bolton, CT 06043



MIL-HDBK-57B(1S)

BEAVER PRODUCTS CORP.
P.O. Box 17279
Anaheim, CA 92817-7279

Plant
1080 North Shepard Street
Unit D
Anaheim, CA 92806

B.P.C.

BEC MACHINE PRODUCTS COMPANY
171 Ruth Rd.
Harleysville, PA 19438

BEC

BEK LEVEL 1 FASTENERS
721 East Compton Boulevard
Compton, CA 90220-1190



BELL FASTENERS
Albany Fasteners/Pawtucket Fastener Division
327 Pine Street
Pawtucket, RI 02862

Stillwater Plant

S

STILLWATER

B

BELL

PMC

PAWTUCKET MANUFACTURING CO.

P

PAWTUCKET

A

ALBANY

SW

On top of screws



(two dots) On the top of or bearing surface
of the screw

BELL-MEMPHIS, INC.
P. O. Box 13187
1650 Channel Avenue
Memphis, TN 38113



MIL-HDBK-57B(1S)

BELL PRECISION, INC.
 131 N. Dillan Ave.
 San Jacinto, CA 92383-3909

BP

BEOTOOL CORP.
 201 W. Clymer Ave.
 Sellersville, PA 18960

BOT

RICHARD BERGNER GmbH & CO.
 Bahnhofstrasse 8 - 16
 P. O. Box 1180
 D - 8540 Schwabach
 FEDERAL REPUBLIC OF GERMANY



RIBE

Where required and applicable, these fasteners types are also marked with the logo "RIBE" and/or capital "B" with screw in circle.

RIBE **multiform**

RIBE **kumbr**

RIBE **triform**

RIBE **triformed**

RIBE **plastoform**

RIBE **spenform**

BETA CORP.
 2340 South Delaware Street
 Denver, CO 80223



BETA ENGINEERING, INC.
 P.O. Box 80
 Arlington, TX 76010

Plant
 602 E. South Street
 Arlington, TX 76010



J. GEORG BIERBACH
 Werdohler Strasse 23
 D-5990-Altena
 FEDERAL REPUBLIC OF GERMANY

GEBI

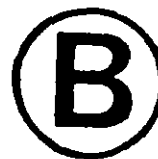


MIL-HDBK-57B(1S)

BINTCLIFFE TURNER LTD.
 Cramptons Road
 Sevenoaks
 Kent TN14 5DS
 GREAT BRITAIN



BLANC AIRCRAFT FASTENERS, INC.
 12691 Footbill Blvd.
 Sylmar, CA 91342-5393



BAF

BLAINE TOOL CORP.
 3730 East 10th Street
 P. O. Box 11001
 Indianapolis, IN 46201



THE BLAND CO.
 55 Brook Street
 West Hartford, CT 06110

BL

BLANC AERO INDUSTRIES
 15, rue Lasson
 75012 Paris
 FRANCE

Saint Chamond Granat (Subsidiary of B.A.I.)
 18,20, rue St.Hilaire
 95310 Saint Ouen L'Aumone
 FRANCE

T

DeColletage General Moderne
 5 bis, PLACE LEON BLUM
 75020 - PARIS
 FRANCE

DDG

THE BOLT & NUT CO. (TIPTON) LTD.
 Park Lane East
 Tipton, West Midlands DY4 8RF
 GREAT BRITAIN

Samuel Marsden & Son
 Wellington Road
 Ashton Under Lyne, Lancashire OL6 7EG
 GREAT BRITAIN



THE BOLT AND
 NUT COMPANY



SAMUEL MARSDEN
 PLANT

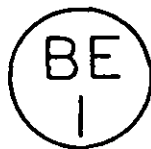
BOLT FASTENER STUD/TECHNOLOGY
 210 East Avenue L
 Lancaster, CA 93535-4616



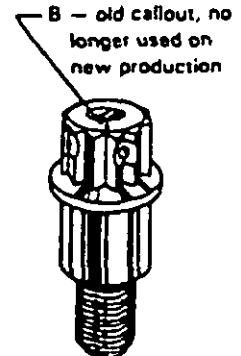
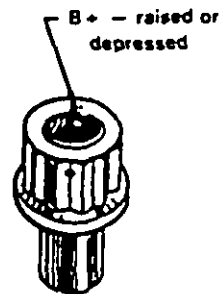
BRIARWOOD FASTENERS, INC.
 9701 Owensmouth Ave.
 Unit 8
 Chatsworth, CA 91311

BFI

BOMAR ENGINEERING, INC.
 12029 Vose Street
 N. Hollywood, CA 91605

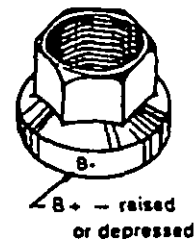


BRISTOL INDUSTRIES
 630 East Lambert Road
 Brea, CA 92621-4119



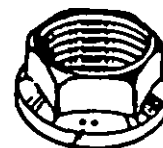
BRACALENTE MANUFACTURING CO. INC.
 P. O. Box 570 West Creamery Road
 Trumbauersville, PA 18970

Plant
 West Creamery Road
 Trumbauersville, PA 18970



BMC INC.

BRANCH MACHINE PARTS, INC.
 2419 Empire Avenue
 Burbank, CA 91504



MIL-HDBK-57B(1S)

BRISTOL LOCKNUT CO.
 Nut Division
 32451 N. Avis Drive
 Madison Heights, MI 48071

//

Screw Division
 630 E. Lambert Rd.
 Brea, CA 92622

A+

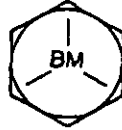
EBERHARD BRÜNINGHAUS
 Postfach 12 06
 Im Duda 2
 D 5982 Neuenrade
 FEDERAL REPUBLIC OF GERMANY



EBM

BRUNNER DRILLING & MFG. CO., INC
 P.O. Box 137
 Elroy, WI 53929

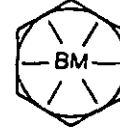
GRADE 5



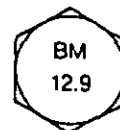
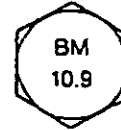
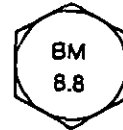
GRADE 8



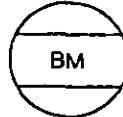
GRADE 8



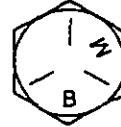
METRIC MARKING



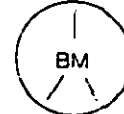
HITCH PIN



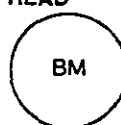
GRADE 5



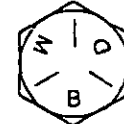
SAE J1102



ROUND, FLAT, OR
 CLEVIS PIN HEAD



GRADE 5



BUCKEYE FORGE, INC.
 5171 East 71 Street
 Cleveland, OH 44125



BUFFALO PUMPS, INC.
 Subsidiary of Ampco-Pittsburgh Corp.
 874 Oliver Street
 North Tonawanda, NY 14120

BP

MIL-HDBK-57B(IS)

BULA FORGE, INC.
2987 E. 87th St.
Cleveland, OH 44104

BULA

BURROWES RESEARCH MACHINING, INC.
43 Bradford Street
P.O. Box 1130
Concord, MA 01742

BRM

BULTEN AB
Box 516
734 01 Hallstahammar
SWEDEN

Bulten Stainless AB
Åshammar Works
810 25 Åshammar
SWEDEN

Bulten Stainless AB
Svartå Works
710 11 Svartå
SWEDEN

BH

BULTEN AB

BUFO

BULTEN AB

SÅ

BULTEN STAINLESS AB

BUSAN INDUSTRIAL MACHINERY CO.,
LTD.

Bolt Division
456-9, Nae-Dong, Changwon
Kyeongsangnam-Do
REPUBLIC OF KOREA

BM

BIM

MIL-HDBK-57B(1S)

BUTECH PRESSURE SYSTEMS
4928 Pittsburgh Ave.
Erie, PA 16509

BPS

C & H MFG., INC.
10767 Monte Vista Ave.
Ontario, CA 91762

30633

BUTLER, INC.
1600 West 166th Street
Gardena, CA 90247

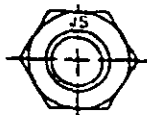
JB

CALIFORNIA SCREW PRODUCTS CORP.
P. O. Box 228
Paramount, CA 90723

Plant
14957 Gwenchris Avenue
Paramount, CA 90723

B. V. FABRIEK VAN KLINKNAGELS EN
SCHROEFBOUTEN V/H JOH. SMIT
P. O. Box 4075
2980 GB Ridderkerk
THE NETHERLANDS

Plant
Ringdijk 400
2983 GS Ridderkerk
THE NETHERLANDS



Hot forged nuts to all international standards; sizes 1/2 in.
(M12) - 4 in. (M100) blanks for lock nuts.

Low/medium carbon steel
Low/medium alloy steel

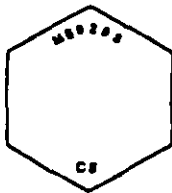
CS

C S

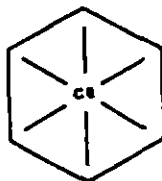
(CONT'D)

MIL-HDBK-57B(1S)

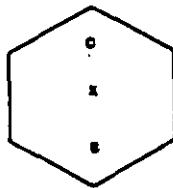
CALIFORNIA SCREW PRODUCTS CORP.
(CONT'D)



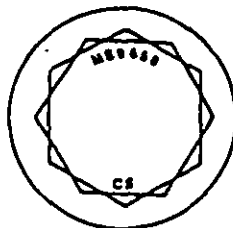
HEX. HEAD



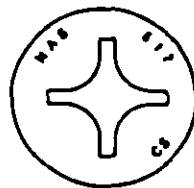
HEX. HEAD



HEX. HEAD



TWELVE POINTS



FLAT HEAD
PAN HEAD
ROUND HEAD
(ALL TYPES OF RECESSES)

CAMBRIDGE SPECIALTY COMPANY, INC.
31 Cambridge Heights
P.O. Box 188
Kensington, CT 06037-2310



CAMCAR DIVISION OF TEXTRON INC.
600 18th Ave.
Rockford, IL 61101

Plant
Amsco Products
345 East Marshall Street
Wytheville, VA 24382



HEAD MARKINGS

VENDOR IDENTIFICATION 'A' OR FOUR DOTS
RAISED OR DEPRESSED LOCATED AS SHOWN



UNDER HEAD MARKINGS

VENDOR IDENTIFICATION, FOUR DOTS RADIALLY LOCATED
AS SHOWN, DEPRESSED.

Plant
Drilltite Products
1301 Kerr Drive
Decorah, IA 52101



VENDOR IDENTIFICATION
4 IN-LINE DOTS, RAISED
OR DEPRESSED

VENDOR & CUSTOMER
IDENTIFICATION FOR
STAINLESS STEEL DRILL
SCREWS, RAISED OR
DEPRESSED.



HEAD MARKINGS

VENDOR/PRODUCT IDENTIFICATION
RAISED OR DEPRESSED
IDENTIFIES CAMCAR SELF-DRILLING
FASTENER



UNDER HEAD MARKINGS

VENDOR IDENTIFICATION, FOUR RADIAL DOTS OR
THREE EQUALLY SPACED RADIAL LINES, DEPRESSED

Plant
Raycarl Products
600 18th Ave.
Rockford, IL 61101



HEAD MARKINGS

VENDOR IDENTIFICATION 'CAMCAR' OR FOUR
IN-LINE DOTS, RAISED OR DEPRESSED.



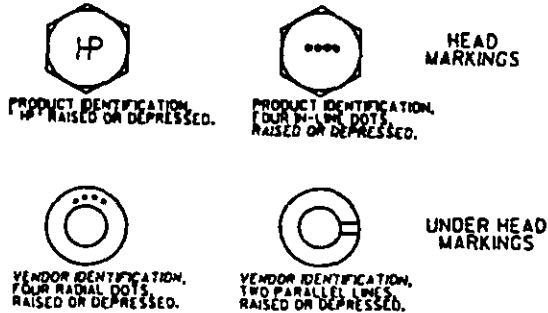
UNDER HEAD MARKINGS

VENDOR IDENTIFICATION, FOUR RADIAL DOTS OR
THREE EQUALLY SPACED RADIAL LINES, DEPRESSED.

MIL-HDBK-57B(1S)

**CAMCAR DIVISION OF TEXTRON INC.
 (CONT'D)**

Plant
Rockford Headed Products
 4814 American Rd.
 Rockford, IL 61109



Plant
Sems Products
 1818 Christina St.
 Rockford, IL 61104



PRODUCT TRADEMARK MARKINGS



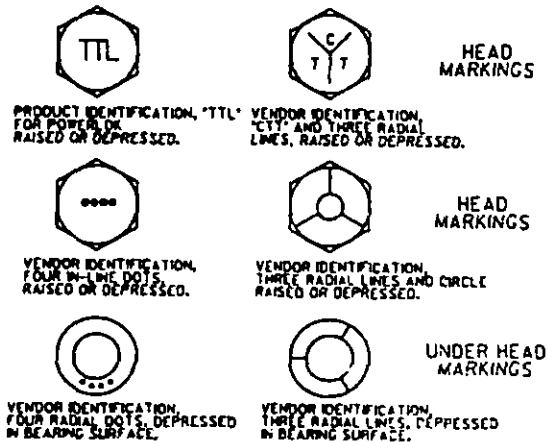
Plant
Socket Screw Products
 1302 Kerr Drive
 Decorah, IA 52101



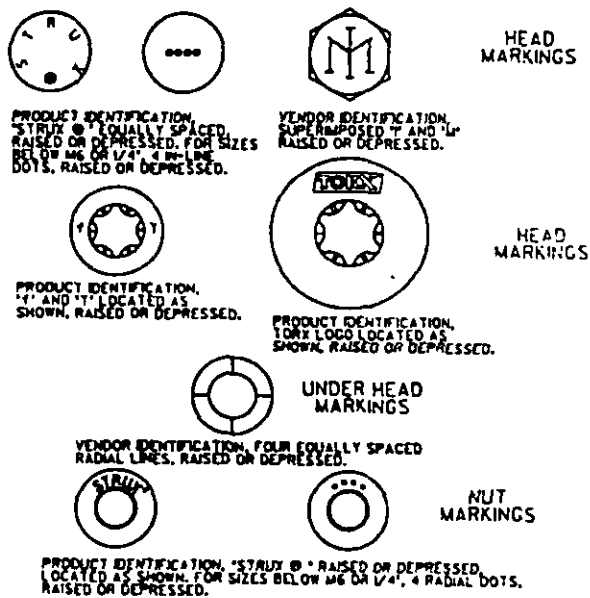
LETTERS "TORX" PLUS TWO DOTS RAISED OR DEPRESSED ON RECESS COMPENSER, LOCATED AS ILLUSTRATED (PRODUCT TRADEMARK)
 VENDOR IDENTIFICATION, FOUR RADIAL DOTS RAISED OR INDENTED, LOCATED AS ILLUSTRATED.
 OPTIONAL IDENTIFICATION, "CAMCAR" RAISED OR INDENTED, LOCATED AS ILLUSTRATED.

**CAMCAR DIVISION OF TEXTRON INC.
 (CONT'D)**

Plant
Taplite Products
 826 East Madison St.
 Belvidere IL 61008



Plant
Torx Products
 P.O. Box 607
 Rochester, IN 46975



CAPRICE ENGINEERING CO., INC.
 509 So. Hindry Ave.
 Inglewood, CA 90301-2070



CARDINAL FASTENER & SPECIALTY CO., INC. (CONT'D)



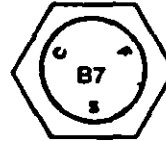
ASTM A325 TYPE III



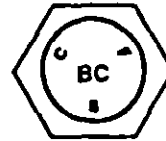
SAE J429 GR 5



ASTM A449



ASTM A193-B7



ASTM A354-BC



ASTM A307B

Area within circle is depressed,
 with markings raised level with
 head surface

CARDINAL FASTENER & SPECIALTY CO., INC.
 5185 Richmond Road
 Bedford Heights, OH 44146



ASTM A490



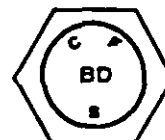
ASTM A490 TYPE III



SAE J429 GR 8



ASTM A354 BD
 (1/4 in. through 1 1/2 in.)



ASTM A354 BD
 (1 1/2 in. and over)



ASTM A325

CARDINAL INDUSTRIAL PRODUCTS, INC.
 3873 West Oquendo
 Las Vegas, NV 89118

C

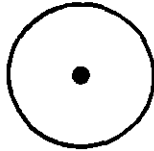
A capital "C" to be applied to all standard ASME/ASTM
 bolting material.

MULTI-C

The word "MULTI" followed by a capital "C" to be ap-
 plied to all ASME bolts manufactured to Nuclear Standards
 Associates or Cardinal Industrial Products, Inc. Standards.

MIL-HDBK-57B(1S)

CARR CO.
The United Carr Div of TRW
31 Ames St.
Cambridge, MA 02142



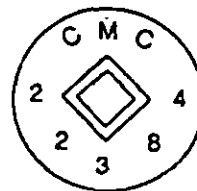
CER-MAC INC.
971 Horsham Rd.
Horsham, PA 19044

CM

CBS FASTENERS INC.
1345 North Brasher Street
Anaheim, CA 92807

CBS

CERNY MFG. CO.
4057 West 147th Street
P.O. Box 489
Lawndale, CA 90260



CMC $\diamond$ 22384.

CELTECH ENTERPRISE
1075 Nevada Street
Long Beach, CA 90806-3429



CHAMPION COMMERCIAL INDUSTRIES,
INC.

Champion Rivet Division
P. O. Box 398
East Chicago, IN 46312-0398

V

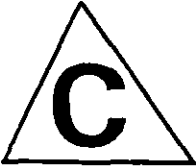
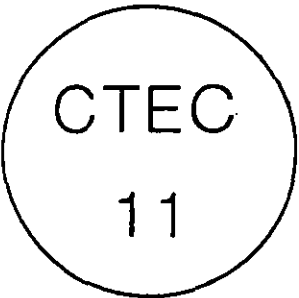
Rivets only

CENTURY METAL PARTS CORP.
230 South Fehrway
Bay Shore, NY 11706-1208

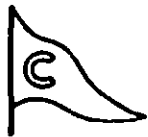


CHANCE, A.B. COMPANY
210 N. Allen Street
Centralia, MO 65240-1395

C

CHANDLER PRODUCTS, INC. 1491 Chardon Road Cleveland, OH 44117-1598 CP	CHIEF MFG., INC. 427 B. West Fork Drive Arlington, TX 76012 
CHATHAM PRECISION, INC. P.O. Box 510 Commerce St. Hinesburg, VT 05461 4N133	CHRIS MACHINE CO., INC. 256 N. West St. Doylestown, PA 18901
CHEROKEE TOOL & ENGINEERING CO., INC. P.O. Box 227 Canton, GA 30114 	
CHICAGO HARDWARE & FIXTURE CO. 9100 Park Lane Franklin Park, IL 60131 CHF	CINCH - MONADNOCK 18301 Arenth Ave. City of Industry, CA 91749 . (a dot)

COAST INDUSTRIAL SUPPLY CO., INC.
15959 Piuma Avenue
Cerritos, CA 90701



On head of silicon bronze and aluminum hex head cap screws

C

On head of stainless steel, monel, brass, naval bronze, chrome alloy, hex head cap screws, and the end of alloy steel studs

COOPER POWER SYSTEMS
McGraw Edison Power Systems
North Burson Street
East Stroudsburg, PA 18301

M

COLD HEADING CO.
4600 Bellevue
Detroit, MI 48207



COPELAND MFG. CORP.
James Division
11222 E. Pine St.
Tulsa, OK 74116



COMET MFG. CO., INC.
315 John Downey Drive
New Britain, CT 06051-2907



61062

CO-OP SCREW MANUFACTURING CORP.
60 Sindle Avenue
Little Falls, NJ 07424

C

CORPUS CHRISTI GASKET &
FASTENER INC.
P.O. Box 4074
Corpus Christi, TX 78414

CCG

CRESCENT MANUFACTURING CO.
P. O. Box 531
Unionville, CT 06085

Plant
700 George Washington Turnpike
Burlington, CT 06013



EDWARD W. DANIEL CO.
4049 St. Clair
Cleveland, OH 44103



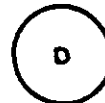
**CWR MANUFACTURING CO. (Division of
A. J. Murphy Co. Inc.)**
P. O. Box 2669
Syracuse, NY 13220

Plant
7000 Fly Road
Syracuse, NY 13220



DANIEL INDUSTRIES, INC.
Bolt & Gasket Division
P. O. Box 292
Houston, TX 77001-0292

Plant
725 North Drennan
Houston, TX 77003



STUDS



HEX NUTS

DACK INDUSTRIES, INC.
P. O. Box 393
Bristol, CT 06010

Plant
100 Broderick Road
Bristol, CT 06010



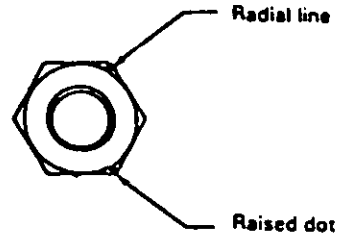
DAVIES PRECISION MACHINING, INC.
2400 Colebrook Rd.
Lebanon, PA 17042

DPM

DAVIS AIRCRAFT PRODUCTS CO., INC.
 1150 Walnut Avenue
 Bohemia, NY 11716

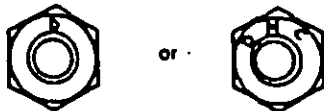


DECKER MANUFACTURING CORP. (CONT'D)



**GRADE 5
 HEX NUTS**
 (ONE RAISED RADIAL LINE 120 DEG.
 COUNTERCLOCKWISE FROM ONE
 RAISED DOT ON CHAMFER)

DECKER MANUFACTURING CORP.
 703 North Clark Street
 P. O. Box 410
 Albion, MI 49224



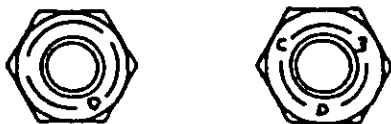
**HEX WHEEL NUTS
 (DEPRESSED)**



**AMERICAN STANDARD
 SQUARE, HEX, AND ROUND WELD NUTS
 (SMALL RAISED DOT ON CHAMFER)**



**METRIC
 SQUARE, HEX, AND ROUND WELD NUTS
 (DEPRESSED LETTER D AND CLASS NO.)**



**A-563
 STRUCTURAL NUTS
 (DEPRESSED)**

DEERE & CO.
*John Deere Harvester Works — Moline Fastener
 Division*
 John Deere Road
 Moline, IL 61265-8098

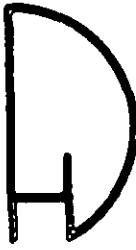
*John Deere Harvester Works —
 Moline Fastener Division*
 501 3rd Avenue
 Moline, IL 61265-1121



DEFENSE QUALITY MFG.
 40 Sacco Road
 Linfield, PA 19468-1030



DQ

DEHOUSSE (USINES) 64007 Pau, FRANCE D	DEL-VAL FASTENER MANUFACTURING CO. INC. 105 Industrial Drive Northampton Industrial Park Ivyland, PA 18974 DV
DELL MFG. CO., INC. Right Lane Farmington, CT 06032 	DEMAT Zone Industrielle B.P. 9 27190 Conches FRANCE DT M
DELTA MACHINE & TOOL CO., INC. Parkmount Road P.O. Box 351 Glen Riddle, PA 19037 	DETROIT HEADING COMPANY 4651 Beaufait Detroit, MI 48207 
DEPENDABLE MACHINE CO., INC. 1846 E. 30th St. Indianapolis, IN 46218 	

MIL-HDBK-57B(1S)

DEUTSCH FASTENER CORP.
3969 Paramount Boulevard
Lakewood, CA 90712-4193



DOMESTIC FORGING, INC.
P.O. Box 693
New Haven, MI 48048

Plant
58181 Main St.
New Haven, MI 48048

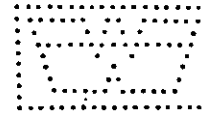


DIESEL PARTS COMPANY OF CALIFORNIA
1900 East 12th Street
Oakland, CA 94606



DRESSER INDUSTRIES, INC.
Dresser Pump Division
270 Sheffield Street
Mountainside, NJ 07092

Dresser Pump Division
401 Worthington Avenue
Harrison, NJ 07029



DIHARD COMPANY
P.O. Box 50246
Forth Worth, TX 76105

Plant
6701 Brentwood Stair Rd.
Fort Worth, TX 76112



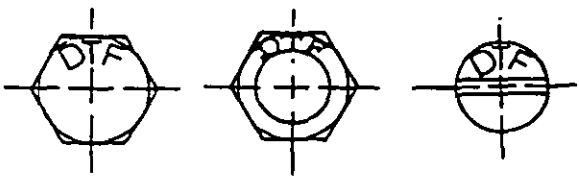
D.S.O. PLASTICS, INC.
1220 Rock St.
Rockford, IL 61101



DO-ALL PRECISION, INC.
9 Union Avenue
Mount Vernon, NY 10550



MIL-HDBK-57B(1S)

DTF MANUFACTURING, INC. Division of Federal Screw & Supply Co. 146 Albany Ave. Lindenhurst, NY 11757  Standard: DTF Large Dia: DTF Micro Dia: d	G. B. DuPONT CO., INC. 500 West Long Lake Road Troy, MI 48098-4599 
DUFFY ELECTRONICS & MFG. CO. 701 Seventh Avenue Belmar, NJ 07719 	DUSEVOIR METAL PRODUCTS, INC. 1751 S. Telegraph Rd. P.O. Box 2158 Dearborn, MI 48124 
DUNCAN INDUSTRIES, INC. 2900 Supply Ave. Los Angeles, CA 90040 	DUVE GmbH & CO. KG P. O. Box 1240 D-5982 Neuenrade FEDERAL REPUBLIC OF GERMANY D DX DUVEX DUVE DUVE - All hexagon head screws and bolts made of high tensile steel grade 8.8 up to 12.8, and sealing fasteners made of case-hardened carbon steel - Hexagon head sealing fasteners made of stainless steel - Hexagon head screws and bolts made of stainless steel (A2 + A4) - DUVE DRIL-KWICK Self-Drilling Fasteners (Screws)

DYNACAST
Industrial Fasteners Division
1401 Front Street
Yorktown Heights, NY 10598

DYNACAST

EAGAN MACHINE CORP.
135 Center Street
Bristol, CT 06010-5025



JOS. DYSON & SONS, INC.
P.O. Box 228
Painesville, OH 44077-0228

Plant
53 Freedom Rd.
Painesville, OH 44077-0228



EAST COAST METALS INC.
171 Ruth Road
Harleysville, PA 19438

E

EASTERN SCREW CO. INC.
71 Mill Street
Johnston, RI 02919

E

DZUS FASTENER CO. INC.
425 Union Boulevard
West Islip, NY 11795

DZUS

DZUS

EASTWOOD MFG. CO.
P.O. Box 231102
Houston, TX 77223

Plant
5626 Lawndale
Houston, TX 77023

E M

MIL-HDBK-57B(1S)

ECENARRO S. COOP. LTDA.
 c/ Amillaga, 15.
 20500 Bergara — Guipúzcoa
 SPAIN



E.D.S. ORDNANCE
 644 C Anchors St.
 Ft. Walton Bch, FL 32548



ELASTIC STOP NUT (Division of Harvard Industries, Inc.)

Plant
 2330 Vauxhall Road
 Union, NJ 07083

2nd Plant
 3200 Country Club Road
 P. O. Box 988
 Pocahontas, AR 72455

E, EN, or ESNA Red nylon insert in locknuts

Red nylon insert in locknuts identifies Esna as manufacturer

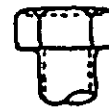


ELLIS PRECISION INDUSTRIES
 3133 Ramona Drive
 Fort Worth, TX 76116



EMHART CORP.
Parker-Kalon Division

Plant
 395 Roberts Road
 Campbellsville, KY 42718



"TRIANGLE" MARKING

Gripco Fastener Division
 111 East Broad Street
 South Whitley, IN 46787



G_N raised or indented on flange or bearing surface



G_N raised on head, both inch and metric series



G_N raised or indented on flange or bearing surface

MIL-HDBK-57B(1S)

ENGINEERED BOLTING PRODUCTS, INC.
 P.O. Box 7067
 Shreveport, LA 71137

Plant
 301 Montgomery St.
 Shreveport, LA 71107

EBP

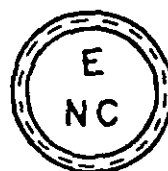
ENGINEERING MATERIALS CO., INC.
 (CONT'D)



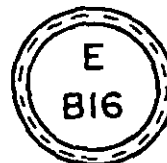
Mfr. Symbol/Logo letter "E" marked opposite material symbol code marking on nut crown at one corner location.



Mfr. Symbol/Logo Letter "E" marked on crown, 180 degrees opposite thread designation letter.

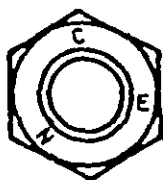


Mfr. Symbol/Logo Letter "E" indent marked above material symbol.

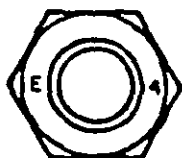


Mfr. Symbol/Logo Letter "E" as shown indent marked above material symbol marking on stud or rod end.

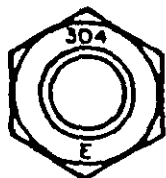
ENGINEERING MATERIALS CO., INC.
 Fastener Manufacturing Division
 2055 West Cowles Street
 Long Beach, CA 90813



Mfr. Symbol/Logo embossed or indent marked Letter "E" as shown on nut crown spaced 120 degrees from material symbol marking.



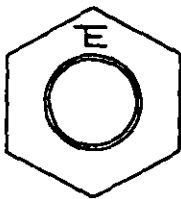
Mfr. Symbol/Logo letter "E" shown, opposite material symbol marking code on nut crown at corners.



Mfr. Symbol/Logo letter "E", as shown on nut crown, 180 degrees opposite material symbol marking.

MIL-HDBK-57B(1S)

ENOMOTO INDUSTRIES CO., LTD.
 3-26 Takasago, Takaishi-Shi,
 Osaka, 592 JAPAN



ERICO FASTENING SYSTEMS INC.
 301 New Albany Road
 Moorestown, NJ 08057



ERIE BOLT CORP.
 1325 Liberty Street
 Erie, PA 16502



ESMET, INC.
 1406 - 5th Street, S.W.
 Canton, OH 44702-2062



EVERLOCK FASTENING SYSTEMS
Everlock Detroit Division
 6567 South Sterling Drive
 Sterling Heights, MI 48077

Microlok



Hi-Hex Microlok



Prevailing torque surface

Flange Hi-Hex Microlok



Prevailing torque surface

Flange Toplock



Flange Nut



Nut and Washer Assembly



Standard Hex Nut

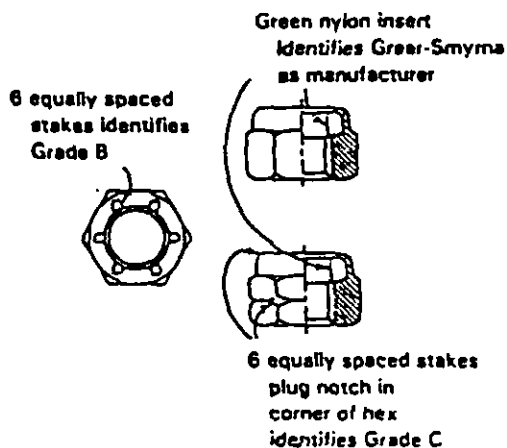


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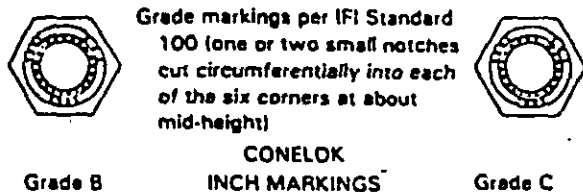
MIL-HDBK-57B(IS)

**EVERLOCK FASTENING SYSTEMS
 (CONT'D)**

Greer-Smyrna Division
 Mayfield Drive
 P. O. Box 68
 Smyrna, TN 37167



NYLON INSERT



Green nylon insert identifies
 Greer-Smyrna as manufacturer
 per IFI 514



Property Class 5, 9 and 10 markings per IFI 514 located
 on bearing surface and/or hex flats



NYLON INSERT

Manufacturer's I.D. — letter "G" stamped on one hex flat
 or on bearing surface



CONELOK — BEARING SURFACE

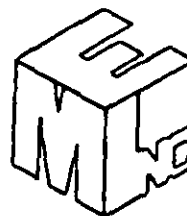
Class 5 METRIC MARKINGS Class 10
 Class 9

**EVERLOCK FASTENING SYSTEMS
 (CONT'D)**

International Screw Division
 50631 East Russell Schmidt Boulevard
 Mount Clemens, MI 48045



EXPERIMENTAL MACHINE, INC.
 1412 Shoemaker Rd.
 Baltimore, MD 21209



FABER ENTERPRISES, INC.
 Canoga Park, CA 91340



FABSCO CORP.
 1745 West 124th Street
 Calumet Park, IL 60643



MIL-HDBK-57B(IS)

GEORGE E. FAILING CO. P. O. Box 872 Enid, OK 73702 (F)®	FASTENER INNOVATION TECHNOLOGY, INC. 13215 South Western Avenue Gardena, CA 90249 FIT
FALL RIVER MANUFACTURING CO., INC. 1075 Airport Road Fall River, MA 02722 fr f	FASTENER TECHNOLOGY CORP. 7415 Fulton Avenue North Hollywood, CA 91605 FT
FARLO MACHINE & TOOL CO., INC. 340 Constance Dr. Bldg #7 Warminster, PA 18974 	FASTENING PRODUCTS CO., INC. P.O. Box 552 Secane, PA 19018 Plant Aldan Industrial Park Merriem Terrace Aldan, PA 19018 
(FASSCO) FASTENER & STEEL SUPPLY CO., LTD. Quality Assurance Dept. P.O. Box 236 Hatfield, PA 19440 Plant 2294 North Penn Road Hatfield, PA 19440   Latest marking used on fasteners after August 1, 1988 Previous marking used on fasteners	FASTENRATH BEFESTIGUNGSTECHNIK GmbH Herscheider Strasse 105 Postfach 51 42 5970 Plettenberg-Holthausen FEDERAL REPUBLIC OF GERMANY 

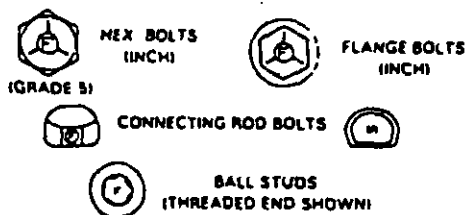
MIL-HDBK-57B(1S)

FEDERAL MANUFACTURING CORP.
 6910 Farmdale Avenue
 North Hollywood, CA 91605

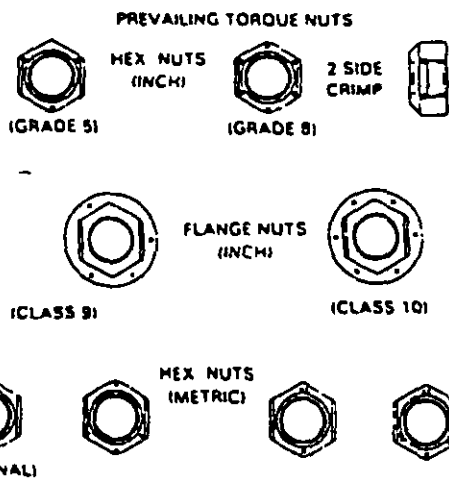
F M C

FEDERAL SCREW WORKS
 2400 Buhl Building
 Detroit, MI 48226

Big Rapids Division
 400 North Dekraft
 Big Rapids, MI 49307

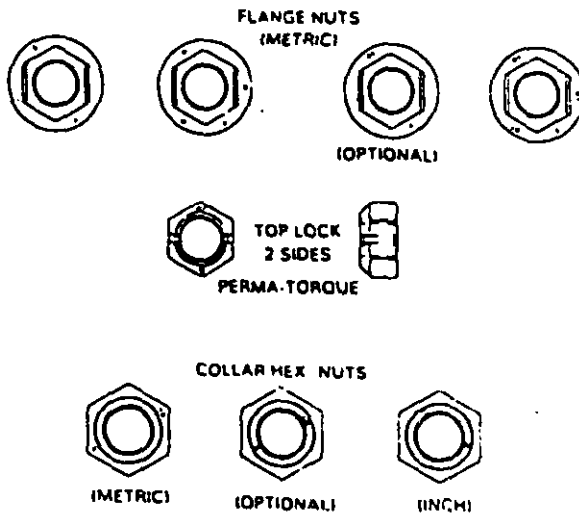


Romulus Division
 34846 Goddard Road
 Romulus, MI 48174



FEDERAL SCREW WORKS (CONT'D)

Romulus Division
 34846 Goddard Road
 Romulus, MI 48174



THE FERRY CAP & SET SCREW CO.
 2151 Scranton Road
 Cleveland, OH 44113

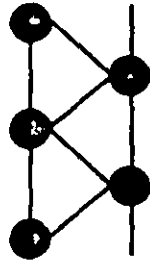
F C F-C
 B P G

FIRST AMERICAN SALES CO.
 721 East Compton Blvd.
 Compton, CA 90220

1st

MIL-HDBK-57B(1S)

FISCHER SPECIAL MFG. CO.
 111 Industrial Rd.
 Cold Spring, KY 41076



FLUIDONICS INC.
 135 Dale Street
 West Babylon, NY 11704



FLUIDYNE CORPORATION
 9016 Collins Ave.
 Pennsauken, NJ 08110

FDC

FLEXALLOY INC.
 26000 Richmond Road
 Cleveland, OH 44146



GRADE 5
 HEX HEAD
 CAP SCREW



GRADE 8
 HEX HEAD
 CAP SCREW



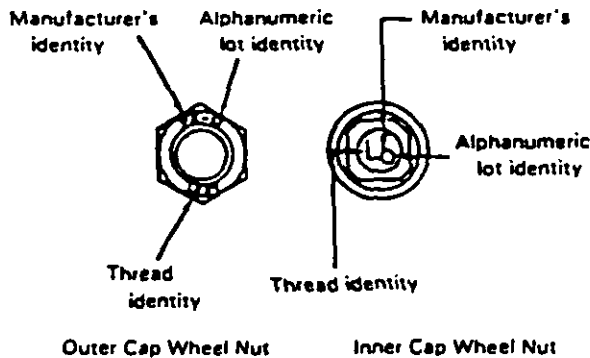
FX-180 HEX HEAD
 CAP SCREW
 (180,000 PSI
 MINIMUM TENSILE
 STRENGTH)



FX-180 HEX NUT
 PROOF LOAD =
 180,000 PSI



METRIC CAP SCREW,
 PROPERTY CLASS 10.9



WHEEL NUTS



HEX FLANGE SCREW GRADE 8

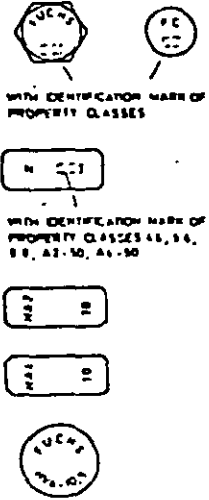
FOLSOM TOOL & MOLD CORP.
 #12 Mt. Pleasant Dr.
 Aston, PA 19014



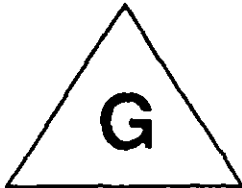
FONTANA LUIGI S.p.A.
 Via Piave 29
 20050 — MI
 ITALY



MIL-HDBK-57B(1S)

FOREST FASTENERS Treforest Industrial Estate Pontypridd, Mid. Glamorgan South Wales CF37 5YG GREAT BRITAIN 	FREETO CO., INC. 60 Farwell St. Waltham, MA 02154 JF
FPA MANUFACTURING 4206 Glencoe Ave. Marina Del Rey, CA 90292 FPA	FRISBY AIRBORNE HYDRAULICS, INC. 417 South Main Street Freeport, NY 11520 FAH
FRANROE PRECISION MACHINE COMPANY 12 Champion Rd. Gloucester City, NJ 08030-1553 F.R. F.R.P	FUCHS SCHRAUBENWERK GmbH Bismarckstrasse 38 5900 Siegen FEDERAL REPUBLIC OF GERMANY  HEX HEAD/ROUND HEAD BOLTS. STUD BOLTS T-HEAD BOLTS, HAMMER HEAD / NOOK HEAD BOLTS HIGH STRENGTH STRUCTURAL BOLTS (TENSION CONTROLLED/TWIST OFF)
THE FREEMAN CO. 8th & Walnut Streets P. O. Box 57 Yankton, SD 57078 F	

MIL-HDBK-57B(1S)

G & R SCREW MACHINE PRODUCTS 2016 W. Adobe Drive Phoenix, AZ 85027 G&R	GENERAL MACHINE PRODUCTS, INC. 3525 E. Vickery Blvd. Ft. Worth, TX 76105-1696  
G & S MACHINE INC. 2804 Renee Drive Bedford, TX 76021 G-S	GENERAL SCREW & SPECIALTY CO INC. 14 N. Blecker Street Mt. Vernon, NY 10550-1892 GS
GARDINER MFG. CO. P.O. Box 1499 Oakland, CA 94604-1499 Plant 1920 Union Street Oakland, CA 94607 	G.F.D. Zone Industrielle P. O. Box 63 90140 Bourgne FRANCE Plant 15, Impasse G. Thivollet P. O. Box 26 42011 Saint Etienne CEDEX 2 FRANCE 
GENERAL AVIATION MFG., INC. P.O. Box 712 Huntingdon Valley, PA 19006 4J952	

GMJ MACHINE COMPANY, INC.
Rt. 1, Box 152A
Wilmer, AL 36587



GRADON SCREW MACHINE CORP.
1411 East Street
New Britain, CT 06053-2136



THE B F GOODRICH CO. RIVNUT®
ENGINEERED FASTENERS
Aerospace and Defense Division
250 North Cleveland-Massillon Road
Akron, OH 44313-0501

Plant
150 Springside Drive
Akron, OH 44313-0501

BFG+

GRANDEUR FASTENERS, INC.
P. O. Box 658
Danville, AR 72833

Plant.
Route 1, Highway 10
Danville, AR 72833

GF

GRAUCH ENTERPRISES
5312 Westminister Ave.
Phila., PA 19131



GOSHO WORKS, LTD.
3-8-1 Taru-machi
Kohoku-ku, Yokohama
222 Japan

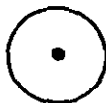
G
Go
Gosho

GREATER MARYLAND TOOL & MFG.
CORP.
Route 219
Accident, MD 21520-0241

GMT

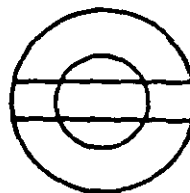
MIL-HDBK-57B(1S)

GREEN BAY DROP FORGE
 DIV. OF CLEVELAND HARDWARE &
 FORGING
 1341 S. State St.
 P.O. Box 11797
 Green Bay, WI 54307-1797



Circle with center dot

GROOV-PIN CORPORATION
 1125 Hendricks Causeway
 Ridgefield, NJ 07657



GREENFIELD MANUFACTURING CO. INC.
 920 Levick Street
 Philadelphia, PA 19111-5498

GFM

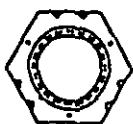
GS AEROSPACE TECHNOLOGY, INC.
 1307 Wanamaker Ave.
 Ontario, CA 91761

GRIPCO, DIVISION OF BLACK & DECKER
 111 E. Broad St.
 South Whitley, IN 46787

GF



GN



Twin Delta
Crownlock Gr B



Gripco
Crownlock Gr C



Toplock
(3-6 Indentations)



Centerlock



Twin Delta Crownlock
Class 9 metric locknut



Gripco Crownlock
Class 10 metric locknut

1) PRIMARY -

1EM77

2) SECONDARY -

GSAT

3) SECONDARY -

GS

4) SECONDARY -
 (OBSOLETE AS OF
 JAN 1, 1988)

GS1

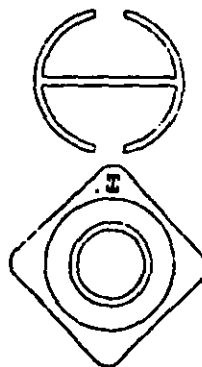
GSF FASTENINGS (Armstrong Fastenings Ltd.)
 Midland Road
 Darlaston
 Wednesbury, West Midlands WS10 8JN
 GREAT BRITAIN



HALLSIMS INDUSTRIAL COMPONENTS, INC.
 946 Rosa Avenue
 Croydon, PA 19020

HIC

HAMANAKA NUT MFG. CO., LTD.
 770 Shirahana-Cho,
 Himeji, Japan

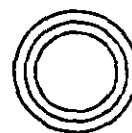


GUARDIAN RIVET & FASTENER
 Guardian Mfg. Division
 70 Air Park Drive
 Ronkonkoma, NY 11779

Plant
 201 Trade Zone Drive
 Ronkonkoma, NY 11779



HANDI GADETS CORP.
 1230 Clinton St.
 La Crosse, WI 54603-2427



GUNNISON-INTERNATIONAL INC.
 861 Gibbsboro Road
 Lindenwold, NJ 08021



HANSAN SCREW CO., LTD.
Exporting Department
 974-7 Yang Duk-Dong
 Masan 610-00
 REPUBLIC OF KOREA



MIL-HDBK-57B(1S)

THE HARRISON BOLT & NUT CO.
2781 Wilkens Avenue
Baltimore, MD 21223



HASSALL, JOHN, INC.
P.O. Box 698
Cantiagui Rock Rd.
Westbury, NY 11590



HARTFORD AIRCRAFT PRODUCTS, INC.
94 Old Poquonock Road
Bloomfield, CT 06002

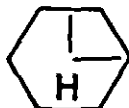


HAYDON BOLTS, INC.
Adams Ave., & Unity St.
Philadelphia, PA 19124

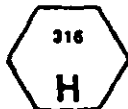


HASKELL OF HUNTINGTON, INC.
P.O. Box 119
Huntington, WV 25706-0119

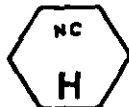
Plant
300 Third Avenue
Huntington, WV 25701



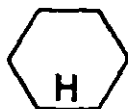
300 Series Stainless Steel



Type 316 Stainless Steel

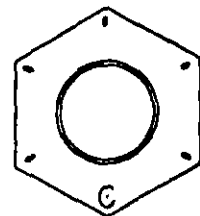


Nickel Copper (Monel)



Silicon Bronze

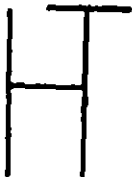
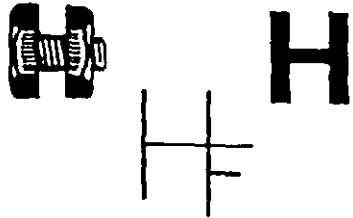
HAZE SEIKO CO., LTD.
Ko 402 Shirahama-Cho
Himeji-Shi. Hyougo-Ken
672 JAPAN



HC PACIFIC
P. O. Box 709
Culver City, CA 90232

Plant
3235 Helms Avenue
Culver City, CA 90232

HC HCP

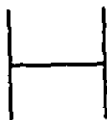
HENWAY, INC. 1314 Goodrick Drive P. O. Box 1276 Tehachapi, CA 93561 	HILL INDUSTRIES, INC. Hill Aerospace & Defense 19734 Dearborn Street Chatsworth, CA 91311 
HEXAGON ENTERPRISES, INC. 256 Minnesota Avenue Troy, MI 48063-4671 	HI-SHEAR CORP. 2600 Skypark Drive Torrance, CA 90509 <i>hs</i> Plant Toronto Fasteners Industries, Inc. Subsidiary of Hi-Shear Corp., USA 19 Constellation Court Rexdale, Ontario M9W 1K4, CANADA 
HIGHLAND THREADS, INC. Fastener Manufacturing Division 708 E. Tidwell Houston, TX 77022 	
HILL FASTENER CORP. P. O. Box 399 Rock Falls, IL 61071-0399 <i>Plant</i> McNeil Road Rock Falls, IL 61071-0399 	

MIL-HDBK-57B(1S)

HILTI, INC.
5400 S. 122nd E. Ave.
Tulsa, OK 74146-2404

DX Division

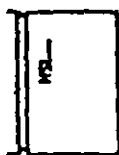
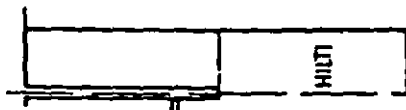
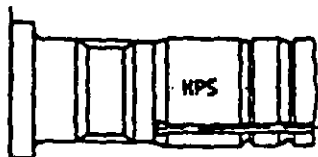
HILTI



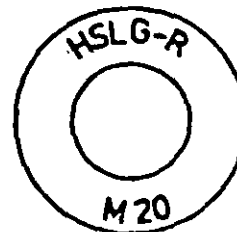
Anchor Division

HILTI
HEA M24 x 210 (1" x 8 1/4")

HILTI
HEA 3/4" x 6 3/8"



HILTI, INC. (CONT'D)
Anchor Division



HOLLYWOOD MANUFACTURING INC.
11915 Vose Street
North Hollywood, CA 91605

H

HOLO-KROME CO.
 Brook Street
 West Hartford, CT 06110

HK

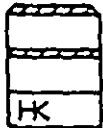
On some socket screw products



1960 series cap screws — present design



1960 series cap screws — new design



Metric socket cap



**HORSPPOOL & ROMINE MANUFACTURING
 CO., INC.**
 5850 Marshall Street
 Oakland, CA 94608

HR

HR

**HORST ENGINEERING AND MANUFAC-
 TURING CO.**
 P. O. Box 8066
 East Hartford, CT 06108

Plant
 36 Cedar Street
 East Hartford, CT 06108

HEM

HE

HE

HOWE MACHINE & TOOL CORP.
 236 Park Avenue
 Bethpage, NY 11714-3709



HOWIE MFG. CO., INC.
 P.O. Box 426
 Collingswood, NJ 08108

Plant
 1227 Mechanic St.
 Camden, NJ 08104

hmc

MIL-HDBK-57B(15)

HUCK MANUFACTURING CO. (Subsidiary of
Federal-Mogul Corp.)
Industrial Fastener Division
P. O. Box 8117
Waco, TX 76714

Plant
8001 Imperial Drive
Waco, TX 76714



HURON AUTOMATIC SCREW CO.
P.O. Box 66
Port Huron, MI 48060

Plant
4918 Gratiot Road
Marysville, MI 48040



HUGO DURHOLT GmbH & CO. KG
Schraubendreh-Und PreBwerk
Postfach 16-80
D-5632 Wermelskirchen 1

Plant
Dabringhauser Str. 19
D-5632 Wermelskirchen 1



HYDRO FITTING MFG. CORP.
P.O. Box 1558
733 E. Edna Place
Covina, CA 91722



HUNTINGTON VALLEY INDUSTRIES,
INC.
5142 Bolsa Avenue, Suite 105
Huntington Beach, CA 92649



IDEAL FASTENERS INC.
1270 North Red Gum Street
Anaheim, CA 92806



MIL-HDBK-57B(1S)

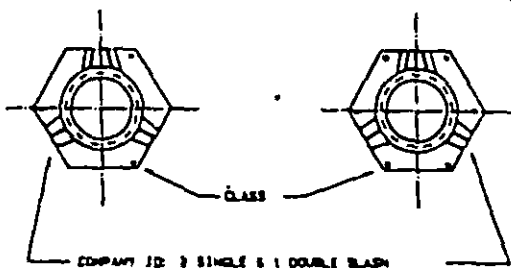
IMPERIAL, INC.
 P.O. Box 11008
 Green Bay, WI 54307-1008



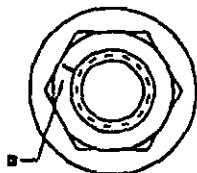
GRADE 8

**INDUSTRIAL & AUTOMOTIVE
 FASTENERS**
 Division of Key Manufacturing Group, Inc.
 3200 W. Fourteen Mile Rd.
 Royal Oak, MI 48073

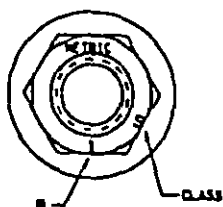
1 INCH CONELOCK NUTS



1 INCH WHEELNUT

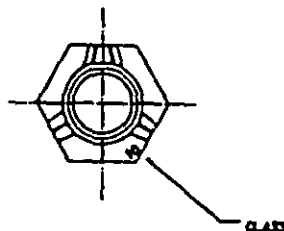


METRIC WHEELNUT



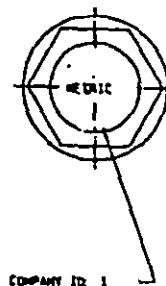
**INDUSTRIAL & AUTOMOTIVE
 FASTENERS (CONT'D)**
 Division of Key Manufacturing Group, Inc.

METRIC
 CONELOCK NUT

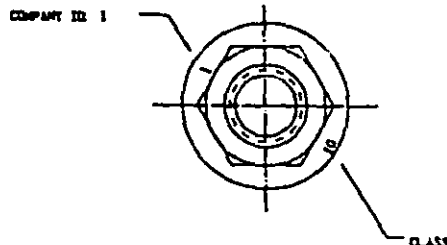


COMPANY ID: 2 SINGLE &
 1 DOUBLE SLASH

METRIC
 CAPPED WHEELNUT



METRIC FLANGE
 HEX NUT



INDUSTRIAL FASTENERS CORP.
 7 Harbor Park Drive
 Port Washington, NY 11050

Plant
 57 Denton Avenue
 New Hyde Park, NY 11040



Under head



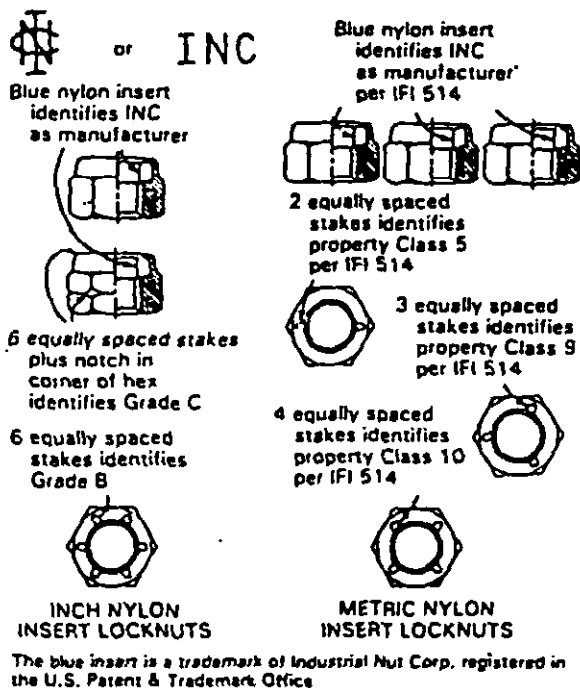
Top of head



Slotted hex head
 (top of head)

MIL-HDBK-57B(1S)

INDUSTRIAL NUT CORP.
 1425 Tiffin Avenue
 Sandusky, OH 44870



IN-SPECK CORP.
 1528 Belfield Avenue
 Philadelphia, PA 19141-2196

ISI

INSTRUMENT MACHINING SERVICE LTD.
 Howlett Way
 Thetford, Norfolk IP24 1HZ
 GREAT BRITAIN



IRVING MACHINE SERVICE, INC.
 451 Main Street
 P.O. Box 94
 Irving, NY 14081

IM

INLAND MACHINE CO.
 8365 Beech Ave.
 Fontana, CA 92335

IM

ITT HARPER AEROSPACE FASTENER OPERATIONS
ITT Aerospace Controls Division, ITT Fluid Technology Corp.
 1200 South Flower Street
 Burbank, CA 91502

INFOAST MANUFACTURING INC.
 1370 Industry Rd.
 Hatfield, PA 19440

IN

AOL

MIL-HDBK-57B(1S)

ITW BUILDEX 1349 West Bryn Mawr Avenue Itasca, IL 60143 B_X	J & S PRECISION PRODUCTS 8 Evesboro Rd. Medford, NJ 08055 J-S
IVACO INC. <i>Infasco Division</i> 700 Ouellette Street Marieville, Québec J0L 1J0 CANADA  <i>Infasco Nut Division</i> 7283 Torbram Road Mississauga, Ontario L4T 1G8 CANADA  <i>Ingersoll Fasteners Division</i> P. O. Box 40 Thomas Street Ingersoll, Ontario N5C 3K1 CANADA  	JACO ENGINEERING, INC. 879 So. East Street Anaheim, CA 92805-5256  ← 1 THRU 9 JAM TECH CORP. P. O. Box 327 Essington, PA 19029 <i>Plant</i> 1260 East Woodland Avenue Springfield, PA 19064 JT JAY BEE MACHINE WORKS, INC. 120 South Keswick Avenue P. O. Box 485 Glenside, PA 19038-0485 B

MIL-HDBK-57B(1S)

JJ SCREW PRODUCTS, INC.
21519 Parthenia Street
Canoga Park, CA 91304



J.P. PRODUCTS, INC.
DBA Specialites, Unlimited
P.O. Box 427
Willoughby, OH 44094

Plant
33220 Lakeland Blvd.
Eastlake, OH 44095



J.M. PRECISION, INC.
Fastener Division
9640-G Topanga Canyon Place
Chatsworth, CA 91311



JUPITER WASHERS, INC.
10-01 37th Avenue
Long Island City, NY 11101



JOLICO/J-B TOOL INC.
4325 22 Mile Road
Utica, MI 48087-2998

JOLICO

KAMAX-WERKE
Rudolf Kellermann GmbH & Co. KG
P.O. Box 1460
D-3360 Osterode am Harz
WEST GERMANY

KAMAX

KX

JOSLYN CORP.
Utility Systems Division (USD)

Plant
3700 South Morgan Street
Chicago, IL 60609



Carriage bolts



Machine bolts

KAPCO INDUSTRIES, INC.
12405 Woodruff Avenue
Downey, CA 90241



MIL-HDBK-57B(IS)

KATSURAGAWA MACHINE SCREW CO., LTD.

3-24-1

Yaguchi Ohta-ku

Tokyo 146

JAPAN

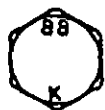
Plant

366-1, Kogosyo.

Kakegawa-shi

Shizuoka-ken 436

JAPAN



KEN FORGING, INC.

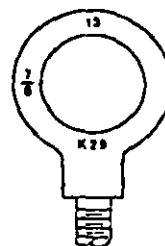
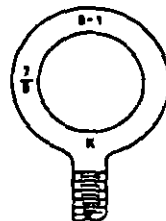
P.O. Box #277

Jefferson, OH 44047

Plant

Griggs Rd. Rt 1

Jefferson, OH 44047



KAYGOR, INC.

1243 Transit Street

P. O. Box 2950

Pomona, CA 91766

K

KERR LAKESIDE INC.

26841 Tungsten Road

P. O. Box 32220

Euclid, OH 44132-2680



KELLER ENGINEERING

136 W. 157th Street

Gardena, CA 90248

KE

KEYSTONE BOLT & NUT COMPANY

Keystone Threaded Products Division

P.O. Box 31059

Independence, OH 44313

Plant

7621 Old Rockside Rd.

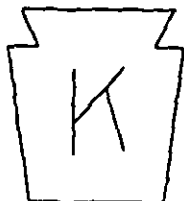
Independence, OH 44131



MIL-HDBK-57B(1S)

KEYSTONE TOOL & MACHINE CO.
P.O. Box 249
Colwyn, PA 19023-0249

Plant
500 South 7th St.
Colwyn, PA 19023



KNIPPING-DORN GmbH
KALTUMFORMTECHNIK
4690 Herne 1
Postfach 1229
FEDERAL REPUBLIC OF GERMANY

D O R N

In connection with the identification mark of property class 3.6 up to and including 12.9

Ko Am MACHINE CO.
831 N. Lake St. #3
Burbank, CA 91502

KO

KILBOURN ENGINEERING CO.
9226 West Flagg Avenue
Milwaukee, WI 53225

K

KOBE FASTENER LIMITED
654 Hishie
Higashi Osaka, 577
Japan

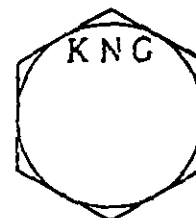
α

KLINCHER LOCKNUT CORP.
2030 N. Oxford St.
P.O. Box 18100
Indianapolis, IN 46218

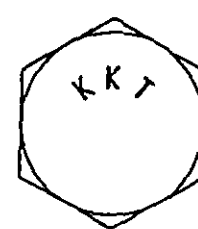
KL

KONGO BYORA CO., LTD.
2-1-27 Shitennoji
Tennoji-Ku
Osaka 543 JAPAN

Plant
3-31 Nagata-Nishi
Higashiosaka-Shi, Osaka
577 JAPAN



MIL-HDBK-57B(IS)

KOREA BOLT IND. CO., LTD. Foreign-Trading Department 620-34 Guro-Dong, Guro-KU Seoul, Korea Plant 731-3 Wonsi-Dong, Ansan-City Gyunggi-DO, Korea 	K-TECH MFG., INC. 288 Holbrook Drive Wheeling, IL 60090-5810     
KORODY COLYER A CR INDUSTRIES COMPANY 700 West Artesia Blvd. Compton, CA 90224-9059 K	KYOEI SEISAKUSHO CO., LTD. 4-5-11 Nunoichi-cho, Higashiosaka-shi, Osaka 579 Japan Plant 1-1 Minamishinozaki Kazo-shi, Saitama-ken 347 Japan 
E. KOZAK PRECISION PRODUCTS CO. 45 Woodland Ave. Rockaway, NJ 07866 KPP	KYOKUTO MFG. CO., LTD. 3-5-29 Wakaehonmachi Higashiosaka-Shi Osaka 578 JAPAN Plant 1109-5 Shibade Kuramochi-Cho, Nabari-Shi, Mie-Ken 518-04 JAPAN 
KREIS TOOL & MFG. CO., INC. 575 Lively Blvd. Elk Grove Village, IL 60007-2013 KTM	

MIL-HDBK-57B(1S)

L & H THREADED RODS CORP.
 3050 Dryden Road
 Dayton, OH 45439

L

LAKE ERIE SCREW CORP.
 13001 Athens Avenue
 Cleveland, OH 44107



ASTM A 307



ASTM A 449



SAE J429 GR 2

SAE J429 GR 5

SAE J429 GR 5.1



ASTM A 354 BD

ASTM F 568
CLASS 8.8

SAE J429 GR 6

SAE J429 GR 8

SAE J1199
CLASS 8.8



ASTM F 568
CLASS 9.8

ASTM F 568
CLASS 10.9

ASTM F 568
CLASS 12.9

SAE J1199
CLASS 9.8

SAE J1199
CLASS 10.9



ASTM A 325



ASTM A 325
TYPE 3
CLASS A



ASTM A 490



ASTM A 490
TYPE 3
CLASS A

LAMSON AND SESSIONS OF CANADA LTD.
RB & W Corp. Metal Forming Division
 8341 Tyler Boulevard
 Mentor, OH 44060

Manufacturer Nuts — Sales Office
 Lamson & Sessions of Canada Ltd.
 Toronto Plant — Canada
 5190 Bradco Boulevard
 Mississauga, Ontario L4W 1G7
 CANADA

STOVER® PREVAILING TORQUE LOCKNUTS



Grade A



Grade B



Grade C

Hex Automation — Imperial



Grade F

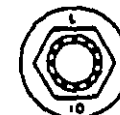


Grade G

Hex Flange — Imperial



Class 9



Class 10

Hex Flange — Metric



Hex Automation — Metric

LANARKSHIRE BOLT LTD.
 Burnbank
 Hamilton, Lanarkshire ML3 0QU
 SCOTLAND



Raised letters

MIL-HDBK-57B(1S)

LAND-SEA-AIR MACHINED PRODUCTS, INC.

P. O. Box H
 Fleming Pike
 Winslow, NJ 08095

L-S-A

LELAND-POWELL FASTENERS, INC.

P. O. Box 260
 Martin, TN 38237

Plant
 Highway 45 East South
 Martin, TN 38237



LANIS MACHINE & MFG. CO.

2506 S. Cooper #A-9
 Arlington, TX 76015



THOMAS WILLIAM LENCH LTD.

P. O. Box 31
 Excelsior Works, Rowley Regis
 Warley, West Midlands B65 8BZ
 GREAT BRITAIN



Raised letters



Indented letters



Raised or indented
 letters

LANUM METAL PRODUCTS, INC.

4100 N. 16th Street
 Philadelphia, PA 19140-3093



LM.T.

LENTERN (AIRCRAFT) LTD.

Main Road, Hawkwell,
 Nr. Hockley, Essex SS5 4JJ
 GREAT BRITAIN

LAH LAH

MIL-HDBK-57B(1S)

LEWIS SCREW COMPANY
 Division of Columbia General Corp.
 4300 South Racine Avenue
 Chicago, IL 60609



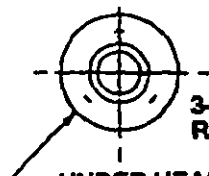
LEWIS SCREW COMPANY
 THE FASTENER SPECIALIST

120° INCLUDED ANGLE
 RAISED.

INDENTED HEX HDS. AND
 INDENTED HEX WASHER HDS.



LEWIS SCREW COMPANY
 THE FASTENER SPECIALIST



3-DASH MARKS 120° APART
 RAISED

UNDER HEAD UPON REQUEST
 "NON-COUNTERSUNK HEADS ONLY"

LFC INDUSTRIES INC.
 1221 Corporate Drive West
 Arlington, TX 76006

LFC

L. H. INDUSTRIES, INC.
Tip Top Tool Co.
 443 Iryington Road
 Drexel Hill, PA 19026

Tip Top Tool Co.
 3513 North 10th Street
 Philadelphia, PA 19140

LH

LINREAD PUBLIC LIMITED CO.
Aircraft Products Division
 P. O. Box 28, Crossgate Road
 Park Farm Industrial Est.
 Redditch, Worcestershire B98 7TD
 GREAT BRITAIN



Illustration
 No.

Notes

1, 2

Y = Unified S quality

WWE = Linread Keeley St. (was
 Warne Wright Engineering
 and which no longer trades
 under that name)

M = Metric screws and bolts
 8.8 or 8.8 = Grade 8.8. Alternative mark-
 ings such as 10.9 or 10.9
 may appear as appropriate.

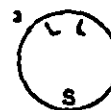


Illustration
 No.

Notes

3, 4

LL or L = Linread Ltd
 S = Unified S quality. Alternative
 letters such as R and T may
 appear as appropriate.

M = Metric screws and bolts
 8.8 or 8.8 = Grade 8.8. Alternative mark-
 ings such as 10.9 or 10.9
 may appear as appropriate.

Illustration
 No.

Notes

3, 4,
 (Cont'd)

L = Linread Pic



(CONT'D)

MIL-HDBK-57B(1S)

LINREAD PUBLIC LIMITED CO. (CONT'D)

Aircraft Products Division (CONT'D)

Illustration

No.

Notes

5, 6



= Linread Plc

S = Unified S quality. Alternative letters such as R and T may appear as appropriate.

M = Metric screws and bolts

88 or 8.8 = Grade 8.8. Alternative markings such as 10.9 or 10.9 may appear as appropriate.



Illustration

No.

Notes

7, 8



= Trilobular screws and bolts. Various letters may appear, viz

M = Metric. Absence of other letters indicate Duo-Tapite or Tapite parts.

P = Powerlok

C = Carbon restored surface, i.e., with no decarburization permitted but not case hardened.

N = Neutral or through hardened

I = Induction hardened lead threads

S = Unified S quality. Alternative letters such as R and T may appear as appropriate.

88 or 8.8 = Grade 8.8. Alternative markings such as 10.9 or 10.9 may appear as appropriate.

LIPPISCHE EISENINDUSTRIE GmbH

Alter Weg 57
D-4930 Detmold
West Germany

LE

LITTLE WORLD MANUFACTURING, INC.

1083 Forest Road
West Chester, PA 19382

Plant

525 West South Street
Kennett Square, PA 19348

L < W > M

LOBO S.p.A.

Via Edison, 2 — 20010 Cornaredo
Milan
ITALY.



MIL-HDBK-57B(IS)

LONE STAR SCREW CO. OF HOUSTON, INC.
P. O. Box 1149
Spring, TX 77383

Plant
24131 Hardy Road
Spring, TX 77373

L

Precedes grade marking
(example: LB7)

LORD CORPORATION
Aerospace Products Division
1635 West 12th Street
Post Office Box 10039
Erie, PA 16514-0039

L

Plant
4644 Wadsworth Road
Dayton, OH 45414

L1

LONG-LOK FASTENERS CORP.
10630 Chester Road
Cincinnati, OH 45215

Plant
10630 Chester Road
Cincinnati, OH 45215

2nd Plant
13709 South Normandic Avenue
Gardena, CA 90249

LL

or

**LONG
LOK**

or

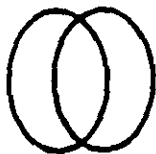
LL

M-MANUFACTURING
P.O. Box 897
Roanoke, TX 76262

Plant
Hyw. 114 & Dove Rd.
Roanoke, TX 76262

M

LOOS & CO., INC.
Aerospace Fastener Division
Route 101
Pomfret, CT 06258



M. A. A. CORP.
Mid America Aerospace Division
16201 West 110th Street
Lenexa, KS 66219

MA

MIL-HDBK-57B(IS)

MAC FASTENERS, INC
 1544 South Main St.
 Ollawa, KS 66067



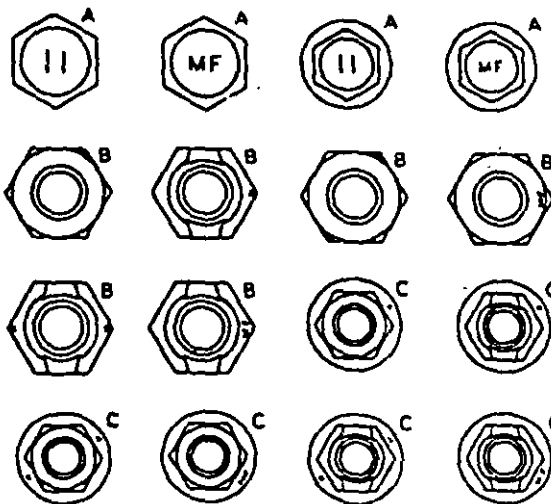
THE MACHINE SHOP, INC.
 235 W. Evelyn
 Mt. View, CA 94040

TMS

MACKO INDUSTRIES
 P.O. Box 24445
 Ft. Worth, TX 76124-1445

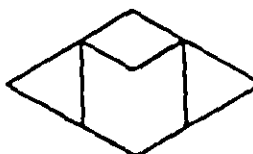
M

MACLEAN-FOGG CO.
 1000 Allanson Road
 Mundelein, IL 60060



A = Hex end flange screws and bolts
 B = Hex nuts and Uitorque® locknuts
 C = Flange nuts less lock and with Uitorque

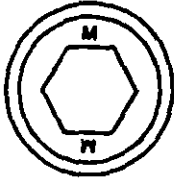
MAGNUS TOOL & DIE CO., INC.
 256 Sheffield St.
 Mountainside, NJ 07092



MAIN MACHINE & TOOL CO.
 116 Marine St.
 Farmingdale, NY 11735

MMT

MIL-HDBK-57B(1S)

MANUFACTURING ENG. TECH. 340-F Turtle Creek Ct. San Jose, CA 95125 	MARUKYO NUT CO., LTD 2-4-15 Nakano-cho, Higashi Tondabayashi-shi Osaka 584 JAPAN 
MAPECO PRODUCTS, INC. 725 Glen Grove Ave. P.O. Box 6 Glen Head, NY 11545 	MARYLAND BOLT & NUT CO., INC. P. O. Box 65187 1340 Smith Avenue Baltimore, MD 21209  SAE J429 Grade 5 ASTM A448 MIL-B-857-A Grade 5 NOTE: Also covers round head bolts, i.e., carriage-plow and countersunk styles, etc.
MAR-BRO MFG., INC. 5717 W. Washington Phoenix, AZ 85043-3650 	 ASTM A193 Grade B-7 Alloy steel high temperature service bolting Tempered to 125 KSI tensile strength NOTE: Also covers sq. head and countersunk styles. Heavy head hex or regular configura- tions
MARTIN-CHANDLER, INC. 122 East Alondra Boulevard Gardena, CA 90248 	 ASTM A490 Type 1 NOTE: Also covers round head bolts, i.e., carriage-plow and countersunk styles, etc. (CONT'D)

MIL-HDBK-57B(1S)

**MARYLAND BOLT & NUT CO., INC.
 (CONT'D)**



ASTM A394 Type T-0

Tower bolts: hex head, square head

Head markings also include: T-1 for medium carbon and T-3 for weathering alloy steel. Both require heat treating

NOTE: Round head step bolts require manufacturing head identification and proper markings as above, except length size



SAE J429 Grade 8

ASTM A354 Grade BD

Also (optional) that A354 is exhibited on top of head

MIL-B-857-A Grade 8

NOTE: Also covers round head bolts, i.e., carriage-plow and countersunk styles, etc.



ASTM A325 Type 1

NOTE: Also covers round head bolts, i.e., carriage-plow and countersunk styles, etc.



ASTM A325 Type 3

NOTE: Also covers round head bolts, i.e., carriage-plow and countersunk styles, etc.

With line under A325 mark



SAE J429 Grade 2

ASTM A307 Grades A & B

MIL-B-857-A Type 2 (ADM/5)

NOTE: Also covers round head bolts, i.e., carriage-plow and countersunk styles, etc.

No Grade mark — only manufacturer's symbol



ASTM A490 Type 3

NOTE: Also covers round head bolts, i.e., carriage-plow and countersunk styles, etc.

With line under A490 mark

**MARYLAND BOLT & NUT CO., INC.
 (CONT'D)**



Letters B7M on head

ASTM A193 Grade B-7-M

Alloy steel high temperature service bolting

Tempered to 100 ksi tensile strength

NOTE: Also covers SQ head and countersunk styles

Heavy head hex or regular configurations

Manufacturer's symbol and the number 3 or DH3 on face

For Grade C-3 three radial lines are also required

Heavy hex applications for C-3 and heavy or regular for DH3

Nuts for bolt applications

ASTM A325 type 3

ASTM A563 Grade DH3

Also covers square nut configurations



Heavy hex for type C-3

Regular or heavy for DH3



Manufacturer's symbol and the 2H or DH marking

Also can be supplied in regular configurations

Suitable for all Grade 8 and A325 or A490 bolts

Nuts for bolt applications

ASTM A194 Grade 2H

ASTM A563 Grade DH

Also covers square nut configurations

Heavy or regular



Manufacturer's symbol and three radial lines

Heavy hex applications only

Nuts for bolt applications

ASTM A563 Grade C

For ASTM A325 bolts

Also covers square nut configurations

Heavy hex only

MIL-HDBK-57B(1S)

MAUI MEGA Jay-Cee Industrial Park River Rd. Bldg. PP-1 Tullytown, PA 19007 O MP	MECAERO CANADA INC. 2250 Coben Ville St-Laurent Quebec, Canada H4R 9Z7 MC
McLANE CO. 7110 East Rosecrans Avenue Paramount, CA 90723 ML	MEL-BA MANUFACTURING CORP. P. O. Box 060 North Ridgeville, OH 44039 <i>Plant</i> 6295 Lear Nagle Road North Ridgeville, OH 44039 ..MEL-BA..
McMELLON BROS INC. 915 Honeyspot Rd. Stratford, CT 06497 05141 MCM 7 MCM 7	MERCER PRODUCTS & MFG. CO., INC. 5472 West Mercer Way P.O. Box 777 Mercer Island, WA 98040 MP
MECAERO Zone Industrielle Bd du Grand Castaing B. P. 86 Roques 31120 Portet/Garonne FRANCE A	MERCURY AEROSPACE INC. P. O. Box 9759 11800 Sherman Way North Hollywood, CA 91609-9759 M M M - Mercury - Aerospace

MERCURY TOOL & MACHINE, INC.
 P.O. Box 5190
 Waco, TX 76708

Plant
 Airport Dr. & Zoo Park
 Waco, TX 76708



METAL-TECH MFG. INC.
 1445 South 18th St.
 Clinton, IA 52732

MT

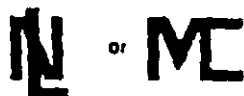
METRIX MFG. CO.
 840 Brittan Ave.
 San Carlos, CA 94070-4181



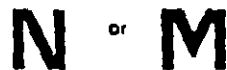
METRI

METRIX

METALCRAFTERS (Division of Keystone
 Consolidated Industries)
 4500 Kishwaukee Street
 P. O. Box 7005
 Rockford, IL 61125-7005



Indented hex and hex
 washer heads



Hex cap screws — low
 carbon steel

Misc. markings for screws and bolts



**MICRO SCREW MACHINE PRODUCTS,
 INC.**
 158 Webster Ave.
 Jersey City, NJ 07307



MIL-HDBK-575(1S)

MICRODOT INC.
431 Stephenson Highway
Troy, MI 48083

Kaynar Manufacturing Division
800 South State College Boulevard
P. O. Box 3001
Fullerton, CA 92634-3001



Used on sheet metal or stamped products



Used on forged or formed products



Two parallel lines — Spiralock® products only



Used on metric products



Used on all Kaynar products

Microdot Inserts Division
10 S. LaSalle Street
Suite 3500
Chicago, IL 60603

Plant
190 W. Crowther Avenue
Placentia, CA 92670



THREE PARALLEL LINES
SPIRALOCK® INSERT PRODUCTS ONLY

MID CONTINENT SCREW PRODUCTS CO.
3701 West Lunt
Lincolnwood, IL 60645



MIDWEST ACORN NUT CO.
256 Minnesota Avenue
Troy, MI 48083-4671



MILLIPART, INC.
412 W. Carter Drive
Glendora, CA 91740



**A.P. MILLS INDUSTRIES FOR THE
BLIND**
346 St. Paul Avenue
P.O. Box 2175
Memphis, TN 38101-2175



MIL-SPEC FASTENERS CORP. Route 30, Box 59A Hampstead, MD 21074 MSF	MITSUBOSHI INDUSTRIES, LTD. Osaka Division 4-16 1 Chome, Midorigi, Suminoe-Ku, Osaka 559 JAPAN N NK NKYM
MI. ME. AF. S.r.l. C.so Europa, 240 24032 Calozioforte (BG) ITALY 	MIX TOOL CO. 212 East Cedar Street Compton, CA 90220  
MINEBEA CO., LTD. <i>Tokyo Rashi Fastener Division</i> 1-1-1 Katase, Fujisawa Kanagawa 251 JAPAN  Trademark, Tokyo Rashi    	M.L.W. MANUFACTURING CO. P.O. Box 8445 New Haven, CT 06530 Plant 240 Sargent Drive New Haven, CT 06511 
	MNP CORP. 44225 Utica Rd. P.O. Box 131 Utica, MI 48087 MNP Fastener Division  

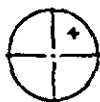
MIL-HDBK-57B(1S)

MODFORM, INC.
800 — 13th Street
East Moline, IL 61244



MONOGRAM AEROSPACE FASTENERS
3423 South Garfield Avenue
Los Angeles, CA 90040

FASTENER HEAD MARKINGS



Used on Jo-Bolts and Visu-Lok®
permanent blind fasteners



Used on Composi-Loks®, Double
Flush Bolts, Lock Bolts and new
products in the permanent fastener
product line

BODY MARKINGS

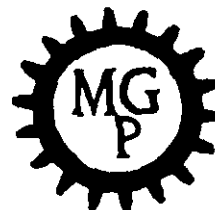


Trademark "Wedgelock" or "Mono-
gram", depressed. Used on tempo-
rary fasteners

MORTON MANUFACTURING
12729 Foothill Boulevard
Sylmar, CA 91342

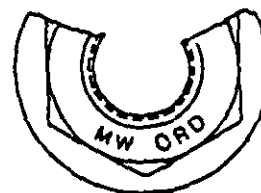


MOSTAR GEAR & MACHINE MFG. CO.
201 E. Franklin
Palestine, IL 62451



MOTOR WHEEL CORP.
4000 Collins Rd.
Lansing, MI 48910

Plant
1600 N. Larch Street
Lansing, MI 48906



MRL MANUFACTURING CORP.
P. O. Box 8440
Haledon, NJ 07538

Plant
525 Lafayette Avenue
Hawthorne, NJ 07506



MIL-HDBK-57B(IS)

H. MULLINS, LTD. Bade Industrial Estate Jarrow Co Durham ENGLAND HM	NATIONAL FASTENER CO., LTD. #973 Yang Duck-Dong Masan REPUBLIC OF KOREA O
NAFCO INDUSTRIES, INC. P.O. Box 1893 Carson City, NV 89702 Plant 26 Stokes Dr. Carson City, NV 89701 N	NATIONAL THREADED FASTENERS CORP. 630 Lively Boulevard Elk Grove Village, IL 60007 NT
NARRAGANSETT SCREW CO. P. O. Box 2242 Providence, RI 02905 Plant 82 Aldrich Street Providence, RI 02905 NS	NEDSCHROEF <i>Nedischroef Helmond B. V.</i> Post Box 29 5700 AA Helmond THE NETHERLANDS Plant Kanaaldijk NW71 5707 LC Helmond THE NETHERLANDS Standard hexagon high tensile bolts and screws of all property classes High strength friction grip bolts for structural bolting property class 10.9 Socket screws Nuts and all other bolts and screws
NASU DENKI-TEKKO CO., LTD. 1-1-14 Shinjuku, Shinjuku-ku Tokyo 160 JAPAN NT	

NELSON AERO SPACE INC.
P. O. Box 6216
Burbank, CA 91510

Plant
3305 Burbank Boulevard
Burbank, CA 91505

NA

NICE TOOL MFG., INC.
3280 Diana Dr.
Fort Worth, TX 76118

T

ERICH NEUMAYER GmbH
Postfach 1160
D-7613 Hausach
FEDERAL REPUBLIC OF GERMANY

N

NIPPON STEEL BOLTEN CO., LTD.
4-3-2 Nishizumi
Yukuhashi, Fukuoka
JAPAN



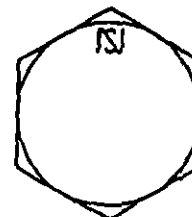
NEVILLE MACHINE SHOP
P.O. Box 22
Ranger, TX 76470

Plant
406 E. Hiway 80
Ranger, TX 76470

ND

NISCO, INC.
5F Shiga Bldg. 1-3-10,
Umebayashi Outsu-Shi
Shiga-Ken 520 JAPAN

Plant
1018-1 Rokujo Chuzu-Cho
Yasu-Gum Shiga-Ken
520-24 JAPAN



MIL-HDBK-57B(1S)

NISSAN SCREW CO., LTD.
 Sales Dept., Foreign Trade Section
 5-6-508 Shinkanaoka-Cho
 Sakai-Shi-, Osaka 591 JAPAN

Plant
 8-4-41 Miyake-Naka
 Matsubara-Shi, Osaka 580 JAPAN

N

NON-FERROUS BOLT & MANUFACTURING CO.

4085 Nevso Drive, Suite C
 Las Vegas, NV 89103

Plant
 3850 West Ponserosa Lane
 Las Vegas, NV 89118

NF

NORTHBRIDGE FASTENERS
 Viking Road
 Wigston, Leicester
 GREAT BRITAIN

NB



E — The plain letter E is used for Rolls Royce, UK supply and Europe and will be used in the absence of any customer allocated identification.

NORTHBRIDGE FASTENERS (CONT'D)



32219 — Allocated by Pratt & Whitney, East Hartford for supply to Pratt & Whitney, East Hartford



15077 — Allocated by Pratt & Whitney, Canada for supply to Pratt & Whitney, Canada



5T572 — Milscap No. for items supplied to U.S. Government



20733 — Allocated by Avco-Lycoming for supply to Avco-Lycoming



NTF99 — Allocated by General Electric for supply to Rolls Royce for joint projects with General Electric

NORTHEAST METAL CO., INC.
 P.O. Box 445
 Westfield, MA 01086

PLANT
 Airport Drive
 Westfield, MA 01085

NET

NOVA MACHINE PRODUCTS
CORPORATION
18685 Sheldon Road
Middleburg Heights, OH 44130



NUCOR CORP.
4425 Randolph Rd.
Charlotte, NC 28211

Plant
NUCOR Fastener Division
P.O. Box 6100, County Road 60
St. Joe, IN 46785

NUCOR

n

N.S.S. INDUSTRIES
9075 General Dr.
Plymouth, MI 48170

N

NUMERIC MACHINE PRODUCTS
1769 West Ave. K-11
Lancaster, CA 93534

NMP

NT ENGINEERING, INC.
1050 "C" Independence Avenue
Mountain View, CA 94043

NT

NUTS, INC.
Route 724 & 23
Phoenixville, PA 19460

N

MIL-HDBK-57B(1S)

NYLOK FASTENER CORP.
 800 West University Drive — Suite E
 Rochester, MI 48063



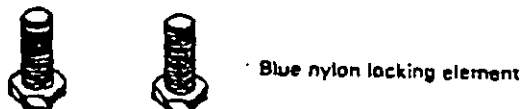
Blue nylon locking element



Blue nylon locking element



Blue nylon locking element



Blue nylon locking element



Blue nylon locking element



Blue nylon locking element

NK

NK

NYLOK

OAKTREE FASTENERS CO.
 12262 1/2 Woodruff Ave.
 Downey, CA 90241

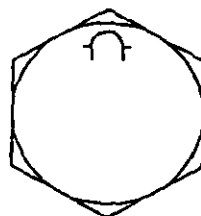
OTF

THE OHIO NUT & BOLT CO.
 Div. of Fastener Industries, Inc.
 33 First Ave.
 Berea, OH 44017-1293

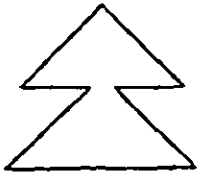
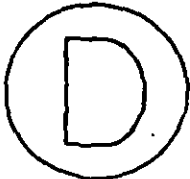


OHKAWA SCREW MFG. CO., LTD.
 2-25-16 Midorigaoka,
 Meguro-Ku, Tokyo
 152 JAPAN

Plant
 6357-1 OBA, Ohmiya-Machi,
 Naka-Gun, Ibaragi-Ken
 319-21 JAPAN



MIL-HDBK-57B(1S)

ONEIDA TOOL & MACHINE CORP 987 Air Park Rd. Rhineland, WI 54501 	ORC-O TOOL & MACHINE, INC. 75 Shamrock Drive Sullivan, MO 63080 ORC-O
ONO MANUFACTORY, INC. 602 Fujita Okayama-shi, Okayama-ken 701-02 Japan Plant 3-800-46 Tamahara Tamano-shi, Okayama-ken 706 JAPAN 	ORDNANCE PARTS & ENGINEERING CO. P.O. Box 8035 Fort Worth, TX 76124 Plant 6200 W. Pioneer Parkway Fort Worth, TX 76112 
ONTIC ENGINEERING & MANUFACTURING, INC. P.O. Box 7044 7230 Coldwater Canyon Ave. North Hollywood, CA 91609-0510 	ORLOTRONICS CORPORATION 1001 Washington St. Conshohocken, PA 19428-2398 [OTC]

MIL-HDBK-57B(1S)

OSAKA SEIKI CO., LTD.
1-19-14, Mitejima
Nishiyodogawa-Ku
Osaka 555
JAPAN



OTT BROTHERS MACHINE CO., INC.
P. O. Box 16314
331 East 37th Street South
Wichita, KS 67216

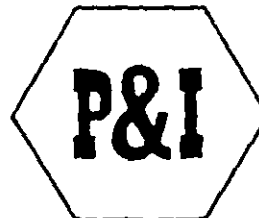
OB
OBMC

OSTEEN MACHINE SHOP
4113 Murray Ave.
P.O. Box 161008
Ft. Worth, TX 76161-1008



P & I ASSOCIATES, INC.
26 West Waverly Road
P.O. Box 413
Glenside, PA 19038-4012

Plant
#1 Limekiln Pike
Glenside, PA 19038
(No mail to this address)



OTO MELARA S.p.A.
Via Valdicocchi 15
19100 La Spezia
ITALY



PABCOR, INC.
925 North Cedar Street
P.O. Box 7528
New Castle, PA 16102

PABCOR

MIL-HDBK-57B(1S)

PACER ALLOYS, INC. 6201 Dixie Dr. Houston, TX 77087 V	PATEREX, LTD. Cray Avenue, Orpington Kent BR5 3RR UNITED KINGDOM P PTX
PACIFIC SCIENTIFIC 22715 Savi Ranch Parkway P.O. Box 87019 Yorba Linda, CA 92686-7019 P S	PATTERSON LAKE PRODUCTS Subsidiary of Columbus Auto Parts P.O. Box 200 Pinckney, MI 48169 Plant 1600 Patterson Lake Road Pinckney, MI 48169 BP
THE PALNUT CO. A United Carr Div of TR, Inc. Glen Road Mountainside, NJ 07092 PAL	H. PAULIN & CO. LTD. <i>Capital Metal Industries Division</i> 55 Milne Avenue Scarborough, Ontario M1L 4N3 CANADA  
PARK PRECISION CORPORATION 2 Birch Rd. P.O. Box 847 Middleton, MA 01949 -PPC-	PB FASTENERS 1700 West 132nd Street Gardena, CA 90249 

MIL-HDBK-57B(15)

P.C.M., INC.
 Bethlehem Pike Industrial Center
 204 Progress Dr.
 P.O. Box 840
 Montgomeryville, PA 18936

P

PEERLESS SCREW PRODUCTS
 286 Sandbank Rd.
 P.O. Box 13
 Cheshire CT. 06410-1537

P

PEINER UMFORMTECHNIK GmbH
 Woltorfer Strasse 20-24
 D-3150 Peine
 FEDERAL REPUBLIC OF GERMANY



Identification mark



Grade marking

Identification mark



Grade marking

Identification mark



Grade marking Lot no.

Identification mark



Grade marking

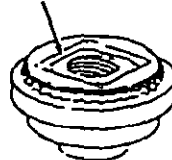
Identification mark



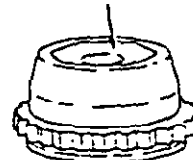
Grade marking Lot no.

PENN ENGINEERING & MANUFACTURING CORP.
 5190 Old Easton Road
 Danboro, PA 18916

Square insert in floating fasteners



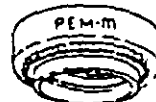
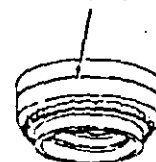
PEM trademark:
 Blue-nylon® hexagonal locking element



"Dimple" trademark



PEM 300™ identification mark



PENN SCREW & MACHINE WORKS, INC.
 2239 East Cambria Street
 Philadelphia, PA 19134

PSM
 PSM

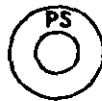
PERKINS MACHINE CO.
 4900 West Washington Boulevard
 Los Angeles, CA 90016



MIL-HDBK-57B(1S)

PHOENIX SPECIALTY MANUFACTURING
CO., INC.
P. O. Box 418
Bamberg, SC 29003

Plant
Highway 301 South
Bamberg, SC 29003



PIONEER MACHINE PRODUCTS, INC.
2200 Dolman
St. Louis, MO 63104-4112

PMP

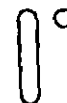
PIONEER SCREW & NUT CO.
2700 York Road
Elk Grove Village, IL 60007

PILGRIM SCREW CORP.
Providence Division
P. O. Box 1452
Providence, RI 02901

Plant
259 Dexter Street
Providence, RI 02907



Indented hex heads and
indented hex washer
heads



All other head styles slash-
dot symbol to appear on
bearing surface upon
request

PINE TAVERN MACHINE INC.
7851 Pine Tavern Road
Perry, NY 14530

PTM

PLAINVILLE MANUFACTURING CO., INC.
48 Lewis Street
Plainville, CT 06062

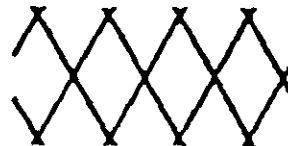


MIL-HDBK-57B(1S)

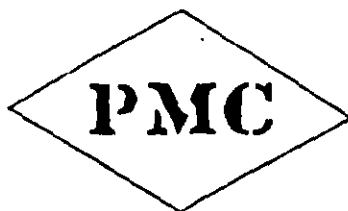
PNEU-HYDRO PRODUCTS, INC.
353 Richard Mine Road
Wharton, NJ 07885

PHP

PRECISION METAL PRODUCTS CO.
#7 Centennial Drive
Centennial Industrial Park
Peabody, MA 01961-6026



POINT MACHINE COMPANY
33 Cambridge Heights
P.O. Box 8055
Berlin, CT 06037-8055



PRECISION PIECE PARTS, INC.
712 S. Logan St.
Mishawaka, IN 46544



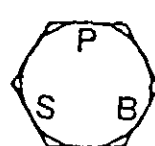
PORTLAND BOLT & MFG. CO.
P.O. Box 2866
Portland, OR 97208

Plant
1202 N.W. Irving
Portland, OR 97209

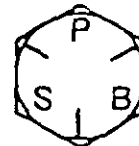
PB

PRECISION SCREW & BOLT, INC.
P.O. Box 600
Columbia Station, OH 44028

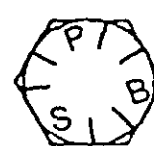
Plant
1515 Fairfield Ave.
Cleveland, OH 44113



GRADE 2

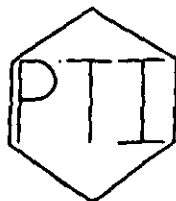


GRADE 5

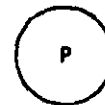


GRADE 8

PRECISION TECHNOLOGIES, INC.
1538 Industrial Ave.
Ottawa, KS 66067



H. PRINZ GmbH FABRIK FÜR
VERBINDUNGSELEMENTE
Postbox 5241
5970 Plettenberg
FEDERAL REPUBLIC OF GERMANY



PRECISIONMATICS CO., INC.
Helmer Ave.
West Winfield, NY 13491



PRODUCT DEVELOPMENT GROUP, INC.
P.O. Box 177
Rose Hill, KS 67133



PREM INDUSTRIES, INC.
P.O. Box 907
Niagra Falls, NY 14302-0907

Plant
574-56th St.
Niagra Falls, NY 14304



PRODUCTION & TOOL COMPANY
240 Sargent Drive
New Haven, CT 06511



MIL-HDBK-57B(1S)

PRODUCTS DESIGN & MFG. CORP.
P.O. Box 11429
Newington, CT 06111

Plant
76 Stanwell Rd.
Newington, CT 06111

8M938

PURITAS METAL PRODUCTS CORP.
P. O. Box 35140
Cleveland, OH 44135

Plant
12305 Grimsby Avenue
Cleveland, OH 44135

PMP

PRO-MACHINE & TOOL COMPANY
115 Wholesale Ave., NE
Huntsville, AL 35811



PYE & HOGAN MACHINE CO.
167-1 Elm St.
P.O. Box Av
Old Saybrook, CT 06475

MFR06320

P.S. MACHINE CO., INC.
1505 John Fetch Blvd.
S. Windsor, CT 06095



QRP, INC.
P.O. Box 3572
Reach Road & North Drive
Williamsport, PA 17701-0572



MIL-HDBK-57B(1S)

QUALITY AIRCRAFT SCREWS, INC.
1030-A Ortega Way
Placentia, CA 92670

QAS

RABOURDIN
17-19 Route de Gornnay
FRANCE

GR

QUALITY FABRICATIONS, INC.
3270 Wrolsen Drive
Saugerties, NY 12477-9520

Q

RADAX INDUSTRIES, INC.
700 Basket Road
Webster, NY 14580

RX

QUALITY SCREW PRODUCTS, INC.
35101 Schoolcraft Road
P. O. Box 2355
Livonia, MI 48151

Q

RAINBOW MACHINE PRODUCTS, INC.
226 Willis Road
P.O. Box 1906
York, PA 17405



QUALITY SOCKET SCREW MANUFACTUR-
ING CORP.
Route 30, P. O. Box 437
Hampstead, MD 21074



Socket head cap screw head
marked for I.O. QSS

RAM THREADING, INC.
P. O. Box 987
Beaumont, TX 77704

Plant
2640 Crockett
Beaumont, TX 77701

R

Centered over grade of material being stamped

MIL-HDBK-57B(1S)

RB & W CORP. (CONT'D)



VIBRESIST®

locking screws

Grade F



Grade G



Grade A



Grade B



Grade C



Grade 5



Grade 8



VIBRESIST® hex locknut

Class 5



Class 9



Class 10



Grade 5



VIBRESIST® hex locknut

Grade 8



Class 9



Class 10



Grade B



Grade C



Class 9



Class 10



Class 9



Class 10



Type "GT"



R.E.C. CORP.
 10 Beach Street
 Mount Vernon, NY 10550

R

Used on all alloy and stainless steel bolts, studs, and nuts
 over 1/2 in. in diameter.

REGAL AIR, INC.
 P.O. Box 1011
 108 E. Alabama
 Mt. Pleasant, TX 75455-4521

4J976

REID PRODUCTS, INC.
 21430 Waalew Rd.
 Apple Valley, CA 92307

Rp

**REPUBLIC FASTENER MANUFACTURING
 CORP.**
 1300 Rancho Conejo Boulevard
 Newbury Park, CA 91320

R

MIL-HDBK-57B(1S)

REXNORD
Specialty Fastener Division
3000 West Lomita Boulevard
Torrance, CA 90505



Tridair



Camloc Products
601 Route 46 West
Hasbrouck Heights, NJ 07604



Rosan Products
3130 W. Harvard St.
Santa Ana, CA 92704

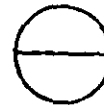


RICHARD MFG. CO., INC.
250 Rock Lane
Milford, CT 06460



RING SCREW WORKS
31550 Stephenson Highway
Madison Heights, MI 48071

Fenton Heading
2480 Owen Road
Fenton, MI 48430



Ferndale Fastener
31600 Stephenson Highway
Madison Heights, MI 48071



Ring Screw Division
22100 Sherwood Avenue
Warren, MI 48091



Semco Fastener
4146 East Baldwin Road
Holly, MI 48442



Titan Fastener
10031 Holly Road
Holly, MI 48442



MIL-HDBK-57B(1S)

ROBBINS MANUFACTURING CO., INC.
1200 Airport Road
P. O. Box 704
Fall River, MA 02722



ROCKFORD BOLT & STEEL CO. (Subsidiary
of Varlen Corporation)
126 Mill Street
Rockford, IL 61101



ROCKFORD FASTENER INC.
P. O. Box 884
Rockford, IL 61105

Plant
725 South Street
Rockford, IL 61102



ROCKFORD PRODUCTS CORP.
707 Harrison Avenue
Rockford, IL 61108-7197



MISC.
OR LOW
CARBON



GENERAL
PURPOSE



GRADE 3



GRADE 5



GRADE 3



GRADE 5.1



GRADE 5.2



GRADE 6



GRADE 7



GRADE 8



GRADE 8



GRADE 8.2



DURLON



STAINLESS



SAE
J-1102



PST WITH
APPROPRIATE
GRADE



87



METRIC
GRADE 8.8



METRIC
GRADE 9.8



METRIC
GRADE 10.9



IND. HEX.
HEAT TREAT &
NO HEAT TREAT



IND. HEX.
GRADE 3



IND. HEX.
GRADE 5



IND. HEX.
GRADE 5.1



IND. HEX.
GRADE 6



IND. HEX.
GRADE 7



IND. HEX.
GRADE 8



IND. HEX.
STAINLESS



OLD STYLE
PLACE BOLT
GRADE 3



OLD STYLE
PLACE BOLT
GRADE 6



NEW STYLE
PLACE BOLT
GRADE 3



NEW STYLE
PLACE BOLT
GRADE 6



METRIC
NEW STYLE
PLACE BOLT
GRADE 9.8



METRIC
NEW STYLE
PLACE BOLT
GRADE 10.9



HEX. NUT
GRADE 3



HEX NUT
GRADE 6



LOW CARBON



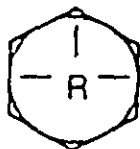
ROCKALLOY
GRADE 8

MIL-HDBK-57B(1S)

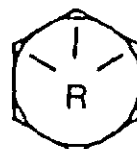
RONSON MANUFACTURING, INC.
 9933 Chillicothe Road
 Kirtland, OH 44094

R

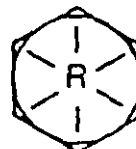
RUMCO, INC. (CONT'D)



GRADE 5.1



GRADE 5.2



GRADE 8

ROTAIR INDUSTRIES, INC.
 964 Crescent Avenue
 P. O. Box 4098 ...
 Bridgeport, CT 06607



Rubber stamped
 on fasteners

54878

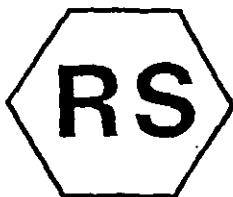
Commercial and Government Entry (CAGE) number
 affixed or rubber stamped

SABRE MANUFACTURING, INC.
 P.O. Box 11386
 South Bend, IN 46634-0386

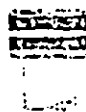
S

RS MANUFACTURING, INC.
 23480 Aurora Road
 Bedford Heights, OH 44146-1757

RS



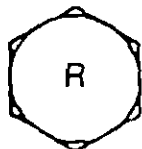
SAFETY SOCKET SCREW CORP.
 6501 North Avondale Avenue
 Chicago, IL 60631-1589



Diagonal head knurl

SOCKET HEAD CAP SCREWS

RUMCO, INC.
 985 Pauly Dr.
 Elk Grove Village, IL 60007

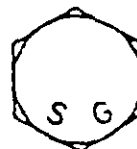


GRADE 2



GRADE 5

SAGA TEKKOSHO CO., LTD.
 129-3 Takaya
 Fujisawa-city
 Kanagawa Pref.,
 Japan



ST. LOUIS SCREW & BOLT CO.
6900 North Broadway
St. Louis, MO 63147



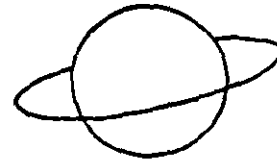
TYPE I



TYPE III

SATURN FASTENERS, INC.
P.O. Box 4006
Burbank, CA 91503

Plant
425 S. Varney St.
Burbank, CA 19502



SCANDIA MFG. CO., INC.
480 Brunswick Street
Baltimore, MD 21223

SCA

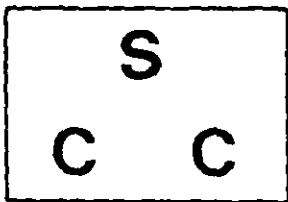
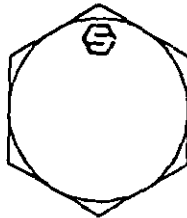
SALES SYSTEM, LIMITED
P.O. Box 7006
700 Florida Ave.
Portsmouth, VA 23707-1918

•S•

SCHUHL & CO. GmbH
Auf der Hütte 31
Niedersfeld
5788 Winterberg 5
FEDERAL REPUBLIC OF GERMANY

S

MIL-HDBK-57B(1S)

WILHELM SCHUMACHER SCHRAUBEN- FABRIK GmbH Postfach 12 80 Am Preist 3 D-5912 Hilchenbach FEDERAL REPUBLIC OF GERMANY  Hex head screws and bolts  Machine screws and other products	SHACKELFORD MACHINING, INC. 2407 Ludelle St. Fort Worth, TX 76105 S
SCOTT CRAFT CO. P.O. Box 430 Bell, CA 90201 Plant 4601 Cecelia Street Cudahy, CA 90201 	SHEFFIELD, INC. 1025 Winchester Avenue Kansas City, MO 64126 S
SENG HENG ENGINEERING PTE LTD. No. 3 Eunos Avenue 8A Singapore REPUBLIC OF SINGAPORE \$	SHIGA BOLT CO., LTD. Otsu 423 Minami-Tsuchiyama Tsuchiyama-Cho, Kohga-Gun Shiga-Ken 528-02 JAPAN 

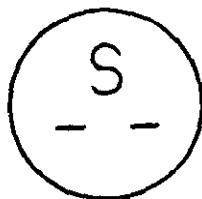
SHUR-LOK CORP.
2541 White Road
Irvine, CA 92714-9584



SKYSPARES PARTS, INC.
6660 View Park Court
Riverside, CA 92503



S.I. STUD, INC.
1127 Silber Rd.
Houston, TX 77055



SONIC INDUSTRIES, INC.
13210 South Western Avenue
Gardena, CA 90249



SIMMONDS FASTENER TECHNOLOGIES
INC.
181-A West Orangethorpe Avenue
Placentia, CA 92670

Simmonds S.A.
5 Rue Michelet
Boite Postale 52
F. 92152 Suresnes Cedex
FRANCE

SD

SOUTH BAY BOLT MANUFACTURING CO.
P. O. Box 5805
Compton, CA 90224

Plant
1775 West El Segundo Boulevard
Compton, CA 90222



MIL-HDBK-57B(1S)

SOUTHERN FASTENER CORPORATION
1641 Conception Street Road
Mobile, AL 36601

SF

SPACE AGE ENGINEERING, INC.
4022 E. 26th Street
Indianapolis, IN 46218

SAE

SOUTHERN FASTENING SYSTEMS (Division
of Farley Metals, Inc.)
P. O. Box 1360
Statesville, NC 28677



Two notches for
slotted hex heads

SPACE-LOK, INC.
2526 North Ontario Street
Burbank, CA 91504

SLI

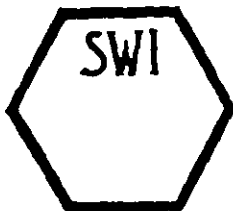
SOUTHWEST ALLIED PRODUCTS CO.,
INC.
5565 Saddlewood Lane
Brentwood, TN 37027



SPACE SCREW, INC.
106 Standard Street
El Segundo, CA 90254

SpSc

SOUTHWIND INDUSTRIES, INC.
P.O. Box 98
1646 Old Butler Plank Rd.
Glenshaw, PA 15116-1730



SPECIALS, INC.
P. O. Box 514
103 Mainline Drive
Westfield, MA 01086



MIL-HDBK-57B(1S)

SPECIAL-T-METALS

P.O. Box 14810
 Lenexa, KS 66215

Plant
 14740 West 101 Terrace
 Lenexa, KS 66215

STM

SPECIALTY SCREW CORP.

P. O. Box 5003
 Rockford, IL 61125

Plant
 2801 Huffman Boulevard
 Rockford, IL 61103

S

SPS TECHNOLOGIES

Corporate Headquarters
 Newtown, PA 18940

SPS Technologies
 Highland Avenue
 Jenkintown, PA 19046

SPS Technologies
 P. O. Box 1259
 Santa Ana, CA 92702-1259

SPS Technologies
 4444 Lee Road
 Cleveland, OH 44128

SPS Inc.
 P. O. Box 179
 Anasco, Puerto Rico 00610

(CONT'D)

SPS TECHNOLOGIES (CONT'D)

The following characters are used alone or in combination with other digits/letters which designate material, size, strength grade, or part number to indicate SPS as the manufacturing source:

C	K	U
CCS	K-5673	U130
EWB [ⓐ]	KS	UNBRAKO [ⓐ]
EWN [ⓐ]	S	UWN
FNF	SPS [ⓐ]	56878
Hi PSI [ⓐ]	TJB	71838
Hi TI [ⓐ]	TM9	80539

The following distinctive patterns are also used to identify inch socket head cap screws:



Straight knurls with an unknurled band adjacent to the bearing surface on socket heads. The diameter over the straight knurl does not exceed the band. There may be 2 or 3 grooves near the band or a diamond knurl band at the top of head.



A raised or depressed triangle pointing from the wrenching flat toward thread on nut products

TBJ

SPURWAY COOKE INDUSTRIES PTE LTD.

2, Joo Koon Road
 Jurong
 Singapore 2262
 REPUBLIC OF SINGAPORE

S
 C I

MIL-HDBK-57B(1S)

STALKER & DYSTHE, INC.
5100 E. Washington Blvd.
Commerce, CA 90040

SD

STEADFAST CORPORATION
229 Marginal St.
Chelsea, MA 02150



STANDARD NUT & BOLT, INC.
49 Abbott Street
Cumberland, RI 02864

S

STEEL CITY BOLT & SCREW, INC.
P.O. Box 1747
Birmingham, AL 35201

Plant
230 West Valley Ave.
Birmingham, AL 35209

SCB

STANDARD TOOL & MACHINE CO.
Box 11311
Pittsburgh, PA 15238

Plant
208 Woodland Rd.
Blawnox, PA 15238



STELCO FASTENER & FORGING CO.
1250 Appleby Line
Burlington, Ontario L7L 5G6
CANADA



Stelco trademark
for most
fasteners



Most other nuts
and bolts,
including metric



SAE Grade 5
hex nuts



SAE Grade 8
hex nuts

(CONT'D)

MIL-HDBK-57B(1S)

**STELCO FASTENER & FORGING CO.
 (CONT'D)**

CONELOK LOCKNUTS
 Inch series



Grade B



Grade C

Metric series



Class 5



Class 9



Class 10

Bearing surface

HI-HEX CONELOK LOCKNUTS
 Inch series

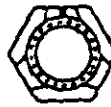


Grade B



Grade C

Metric series



Class 5



Class 9



Class 10

Bearing surface

STELFAST FASTENERS INC. (Division of
 Stelfast Fasteners, Ltd.)
 1710 Clarkstone Road
 Cleveland, OH 44112

1/4 in. through 3/4 in. hex cap
 screws, heavy hex bolts, square
 head bolts, and specialty exter-
 nally threaded fasteners, cold
 headed



3/4 in. through 2 1/4 in. reg. hex
 bolts, heavy hex bolts, square
 head bolts, and specialty exter-
 nally threaded fasteners, hot
 headed



1/4 in. through 2 1/2 in. studs

2 3/8 in. through 3 in. reg. hex
 bolts, heavy hex bolts, square
 head bolts, hot headed, and
 specialty externally threaded
 fasteners

STERLING MACHINE CO., INC.
 119 Post Rd.
 P.O. Box 3317
 Enfield, CT 06082-1779



STERLING MFG. & SUPPLY, INC.
 P.O. Box 8205
 Fort Worth, TX 76124-0205

Plant
 3623 E. Vickery Blvd.
 Fort Worth, TX 76105



or **60529**

Steel stamped
 or
 Embossed
 or
 Rubber stamped

MIL-HDBK-57B(IS)

STEVENS MFG. CO., INC.
P.O. Box 3041
Milford, CT 06460

Plant
280 Rock Lane
Milford, CT 06460

MFR 8F781

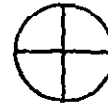
8F781

STILLWATER FASTENERS, INC.
25 Gurney Road
P. O. Box 128
East Freetown, MA 02717

SW & ..

Symbols are "SW", ampersand ("&") or "..."

STRENKERT MACHINE SHOP INC.
RD #2, Box 759
Indian Brook Road
Greene, NY 13778



STURM MACHINE CO., INC.
9846 Owensmouth Avenue
Chatsworth, CA 91311

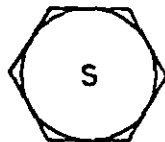


SUBURBAN INDUSTRIES, INC.
11901 Franklin Ave.
Franklin Park, IL 60131

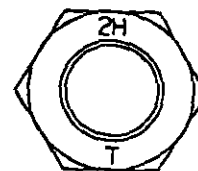
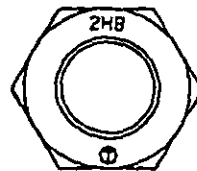
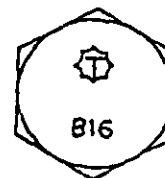
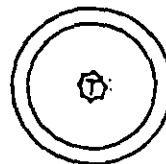
SII

MIL-HDBK-57B(1S)

SULLIVAN BOLT CO., INC.
 3435 South Malt Avenue
 Commerce, CA 90040



TAKENAKA SEISAKUSHO CO., LTD.
 178 Hishie
 Higashi Osaka City
 578 JAPAN



S V INDUSTRIES
 385 North Sherman Avenue
 Corona, CA 91720

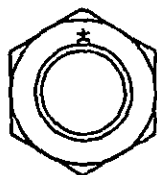
SV

TANAKA LTD.
 1-10-6 Tezukayama-naka,
 Sumiyoshi-ku, Osaka



SDC

TAIYO NUT MFG. CO., LTD.
 2-6-12 Kouzen, Ikarugacho,
 Ikoma-Gun, Nara, Japan

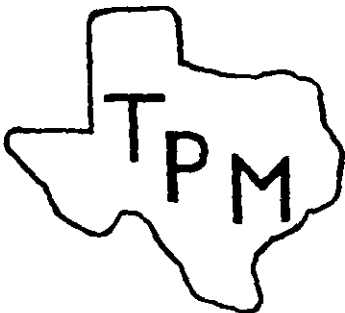
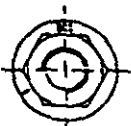


**TEBCO THREADED FASTENERS (Division of
 Tennessee Bolt & Screw Co.)**
 2700 Summer Avenue
 Memphis, TN 38112

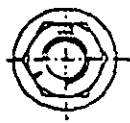
Plant
 665 Scott Street
 Memphis, TN 38112



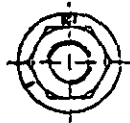
MIL-HDBK-57B(1S)

TECHNICAL FASTENERS, INC. P.O. Box 78194 Shreveport, LA 71137-8194 Plant 1049 Grinnett Dr. Shreveport, LA 711076 	TEXAS BOLT CO. P. O. Box 1211 Houston, TX 77251-1211 
TELEFAST INDUSTRIES, INC. 400 North Rocky River Drive Berea, OH 44017 	TEXAS PRECISION MFG., INC. P.O. Box 3640 Lubbock, TX 79452 Plant 1204 E. 46th Street Lubbock, TX 79404 
TENS MACHINE CO., INC. 800 Grundy Ave. Holbrook, NY 11741 	BOULONNERIE DE THIA NT B.P. 4 59224 Thiant FRANCE  This marking appears on all hex nuts with or without deflection marks. The three raised lines in the corner indicate "Thiant" as manufacturer. (Clockwise system for grade.)  This marking appears on all flange nuts. The three raised lines on the flange indicate "Thiant" as manufacturer. (Clockwise system for grade.) (CONT'D)
TERRY MACHINE CO. 5331 Dixie Hwy. P.O. Box 487 Waterford, MI 48095 	

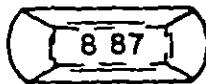
BOULONNERIE DE THIA NT (CONT'D)



This marking appears on flange nuts when no mark is acceptable on the flange. Three depressed lines indicate "Thiant" as manufacturer. (Clockwise system for grade.)



This marking appears on flange nuts when raised marks are not accepted. Three depressed lines indicate "Thiant" as manufacturer. (Clockwise system for grade.)



TRACKS FASTENERS



HIGH STRENGTH STRUCTURAL BOLT



HOT FORGED BOLTS

3V FASTENERS

1651 B Market Street
 Corona, CA 91720

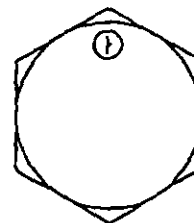
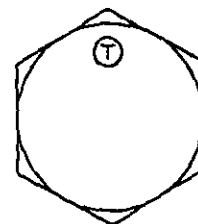
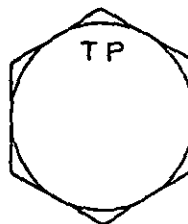
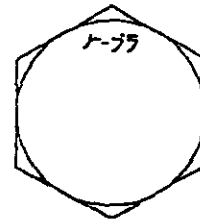
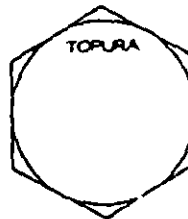


TOKOSHA METAL WORKS LTD.
 No. 7-22, 3-chome, Nakngama-Nishi,
 Ikuno-ku, Osaka. JAPAN

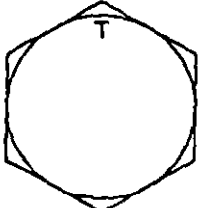
TKS

TOPURA CO., LTD.
 2-50 Yayoi-Cho
 Higashiosaka-Shi
 Osaka 579 JAPAN

Plant
 201 Soya, Hadono-Shi
 Kanagawa 257 JAPAN



MIL-HDBK-57B(1S)

TOWNE ROBINSON FASTENER CO. Key Manufacturing Group, Inc. 24175 Northwestern Hwy. P.O. Box 232 Southfield, MI 48037 Plant 4401 Wyoming Ave. P.O. Box 188 Dearborn, MI 48121 TR	TRIAD PRODUCTS CORP. 15241 N. E. 92nd Redmond, WA 98052 
TOWNSEND CO. Cerry Rivet Division 1224 E. Warner Ave. Santa Ana, CA 92707 T Aircraft blind rivets. C Aircraft lockbolts.	TRIUMPH MANUFACTURING CO., INC. P.O. Box 380148 750 Tolland St. East Hartford, CT 06138-0148 TRI
TOYO STEEL WIRE CO., LTD. 3-9-45 Tsurubara Izumisano-sbi, Osaka 598 Japan  T	TRU-FIT PRODUCTS CORP. Tru-Weld Division 460 Lake Road Medina, OH 44256 TF 

MIL-HDBK-57B(15)

TRW
Fasteners Division
265 Third Street
Cambridge, MA 02142

PAL

Logo Stampings Used on
Brass Snap Fastener Components

PULL THE
DOT

Part No. 18100

TRW

TRW

Part No. 16506

DOT

(DOT)
(DOT)

Part Nos. 10412
and 10413

□

Part No.
22201

(R W)
(DOT)

Part Nos. 10224, 12206, 10412,
10413, 10414, 90307

THE LIFT
DOT

Part Nos. 16205 and 16206

Nelson Stud Welding Division
2707 Toledo Avenue
Lorain, OH 44055

Plant
7900 West Ridge Road
P. O. Box 4019
Elyria, OH 44036-2019

N

TRY - AZTEC COMPANY
P.O. Box 6191
Tehachapi, CA 93561-6191

Plant
1314 B Goodrick Dr.
Tehachapi, CA 93561-6191

JA or JA

TUFF FASTENERS CO.
14913 Gwen Chris Ct.
Paramount, CA 90723

Plant
7310 Adams Street, Unit H
Paramount, CA 90723

T

ULTRA SONIC MACHINE CO., INC.
1313 West 135th St.
Gardena, CA 90247

USMC
1

USMC
2

USMC
3

USMC
4

MIL-HDBK-57B(1S)

UMPCO CORP. P.O. Box 5158 12300 Industry Street Garden Grove, CA 9264 	UNITED BOLT & SCREW CORP. 10555 Haggerty Avenue Dearborn, MI 48126 
UNIFLOW CORP. 26600 Heyn Drive P. O. Box 705 Novi, MI 48050 	UNITED PRECISION PRODUCTS CO., INC. 25040 Van Born Road Dearborn Heights, MI 48125-2095 
UNIMETRIC CORP. Box 4529 5 Tripps Lane East Providence, RI 02915-4529 	UNITED STEEL & FASTENERS INC. 1500 Industrial Drive Itasca, IL 60143  Identification used on all large bolts  Identification used on all small bolts and on the shoulders of nuts 
UNISTRUT CORP. Unistrut Phila 761 Fifth Ave. King of Prussia, PA 19406-1435 Plant UNISTRUT CORP. Wayne Mfg. Div. 35660 Clinton Wayne, MI 48184 UNISTRUT 	

MIL-HDBK-57B(1S)

U.P. MACHINE & ENGINEERING CO.
210 North Third Street
P. O. Box 400
Powers, MI 49874

UPME

VALCOR ENGINEERING CORP.
2 Lawrence Road
Springfield, NJ 07081

VALCOR

URANIA ENGINEERING CO., INC.
SPEC-NUT[®]
198 South Poplar Street
Hazleton, PA 18201

U

VALLEY-TODECO
12975 Bradley Avenue
Sylmar, CA 91342

**T
V**

URBAN MANUFACTURING CO.
P. O. Box 4260
161 East Herman Street
Philadelphia, PA 19144-2050

U

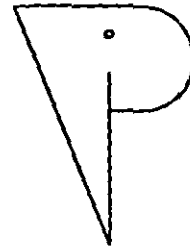
VT

MIL-HDBK-57B(15)

VAN PETTY MFG., INC.
1168 Tourmaline Dr.
Newbury Park, CA 91320



VIP MFG. & ENGR. CORP.
1084 Martin Ave.
Santa Clara, CA 95050



V-B MACHINE CO., INC.
Fasteners Division
1645 West 135th Street
Gardena, CA 90249



VISSERIES & BOULONNERIES DE
FOURMIES
2 Rue du Chauffour
59610 Fourmies
FRANCE

VERSATECH, INC.
P.O. Box 175
110 Cheswick Ave.
Cheswick, PA 15024



F.K

Grade 8.8 and over

VICTOR PRODUCTS CORP.
2635 West Belmont
Chicago, IL 60618



VITCO NUCLEAR PRODUCTS INC.
Willoughby, OH 44094



MIL-HDBK-57B(15)

VOSS INDUSTRIES, INC.
Voss Aerospace Division
2168 West 25th Street
Cleveland, OH 44113



E A

V

VSI
AEROSPACE PRODUCTS DIVISION
8463 Higuera Street
Culver City, CA 90232-0512

Plant
Voi-Shan Division
4001 Inglewood Avenue
Redondo Beach, CA 90278

VS

VULCAN RIVET & BOLT CORP.
P. O. Box 170129
Birmingham, AL 35217

Plant
1020 Pinson Valley Parkway
Tarrant, AL 35217

V.

All fasteners marked with the letter "V" followed by a period (.)

V.

Fasteners manufactured from special alloy steels are identified with the letter "V" followed by a period (.) and a line under the letter "V"

304
V.

Stainless steel fasteners are marked with the letter "V" followed by a period (.) with the type of stainless

WALKER BOLT MANUFACTURING CO.,
INC.
P. O. Box 38502
Houston, TX 77238-8502

WB

MIL-HDBK-57B(1S)

WATERBURY BUCKLE CO.
952 South Main Street
Waterbury, CT 06721



WAYNE BOLT & NUT CO., INC.
14471 Livernois Avenue
Detroit, MI 48238



WEBLUK MACHINE CORP.
4959 Commerce Parkway
Warrensville Heights, OH 44128



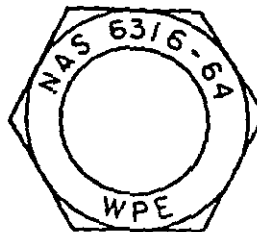
WELTON ROLLED THREAD CORP.
1818 Glendale Blvd
Los Angeles, CA 90026-1795



WEST COAST AEROSPACE, INC.
812 Miraflores St.
San Pedro, CA 90731



WESTERN PACIFIC ENTERPRISES,
W.P.E., INC.
8110 Remmet Ave.
Canoga Park, CA 91304



WESTERN SKY INDUSTRIES, INC.
Div. of Atlas Corp.
21300 Cloudway
Hayward, CA 94555



WESTFIELD FASTENERS
125 N. Elm St.
Westfield, MA 01085



WHAIL BOLT IND. CO., LTD.
779-2, Wonsi-Dong, Ansan
Kyungki-Do
KOREA



GRADE 5 HEX
CAP SCREWS

GRADE 8 HEX
CAP SCREWS

MIL-HDBK-57B(1S)

WHITNEY SCREW CORP.
14A Broad Street
P. O. Box 784
Nashua, NH 03061



WILT PRECISION PRODUCTS
P.O. Box 69
Dover, PA 17315

Plant
1550 E. Canal Street
Dover, PA 17315

Wpp

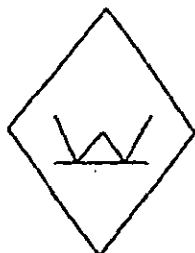
WHITTET-HIGGINS CO.
33 Higginson Avenue
Central Falls, RI 02863



WODIN, INC.
5441 Perkins Road
Bedford Heights, OH 44146



WILLIAM'S MACHINE &
FABRICATION, INC.
700 Delay Drive
P.O. Box 22235
Eugene, OR 97402

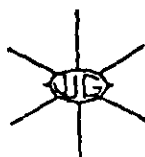


WOLTERS GmbH
Ottilienstr 19
D-4830 Gutersloh
WEST GERMANY



WILSON-GARNER CO.
P. O. Box 500
Clawson, MI 48017

Plant
1621 Northwood Drive
Troy, MI 48084

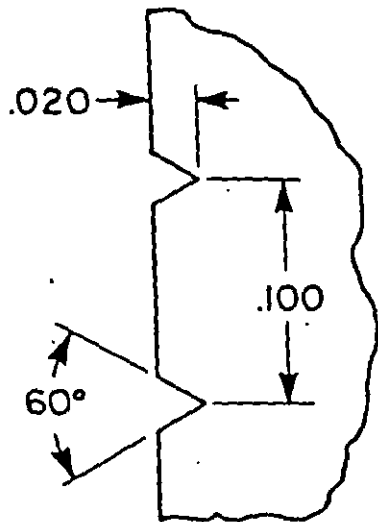


WH

LE

MIL-HDBK-57B(1S)

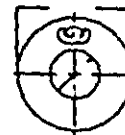
WOLVERINE MACHINE PRODUCTS CO.
 319 Cogshall St.
 P.O. Box 209
 Holly, MI 48442



WROUGHT WASHER MANUFACTURING INC.
 2100 South Bay Street
 Milwaukee WI 53207



Marking for medium carbon heat treated washers compatible with Grade 5 and Grade 8 bolts



Marking for low carbon washers

WOLVERINE NUT CO.
 6556 East McNichols
 Detroit, MI 48212



3 dots, centered on corner,
 equally spaced

WYANDOTTE INDUSTRIES, INC.
 4625 13th Street
 Wyandotte, MI 48192



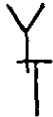
XCEL MFG., INC.
 P.O. Box 239
 Elyria, OH 44036-239

Plant
 5165 Mills Industrial Parkway
 North Ridgeville, OH 44039



MIL-HDBK-57B(1S)

YATES TOOL, INC.
2425 Medina Road
Medina, OH 44256



Either electroetched, steel stamped,
vibropeened, or ink stamped

ZAMON CO., INC.
Endicott St., Bldg. 23
Norwood, MA 02062



Z & B GENERAL MACHINE
569 Hulmeville Ave.
Penn del, PA 19047



ZENEX CORPORATION
850 Elmburst Rd.
Elk Grove Village, IL 60007

ZENEX

MIL-HDBK-57B(IS)

Preparing Activity:
DLA - IS

(Project No. 53GP-D003)



DEFENSE LOGISTICS AGENCY
DEFENSE INDUSTRIAL SUPPLY CENTER
700 ROBBINS AVENUE
PHILADELPHIA, PA 19111-5008



APPLICATION FOR FASTENER HEADMARKING REGISTRATION

(Company name as it will appear in the listing)

(Department, division, etc., if it is to appear in the listing)

Location (give full address, Zip or mail code, telephone, Telex, etc., and name of contact person)

Corporate/Mailing

Plant (if different)

Our Company is a: fastener manufacturer ()
 fastener supplier/distributor ()

Telephone: () _____

Corporate Telex #: _____

Contact Name: _____

Telecopier #: _____

Title: _____

1. Enclose the **LATEST MARKINGS USED ON YOUR FASTENERS** for company identification, as well as a **VERBAL DESCRIPTION** of the marking. (Please indicate this information exactly as you wish it to be included in the listing; include **CAMERA READY COPY**, labeled or tagged with company/division/plant name.) Sketches will not be acceptable.
2. If your company manufactures more than one type of fastener, include a camera ready copy of that symbol for each product. Also provide a verbal description of the symbol for each product.
3. If your company has plants in various locations, please provide **DISC** with the symbol (and verbal description of that symbol) used for each product at each location, as well as the name and phone number of a specific individual at that location.
4. All information must be supplied in the English language.

NOTE: WE ENCOURAGE YOU TO DUPLICATE THIS REGISTRATION FORM
AND FORWARD IT TO YOUR VARIOUS PLANTS

Signed: _____
(Signature must be by company officer or designee)

Title: _____

Date: _____

DISC FORM FL-207

INSTRUCTIONS: In a continuing effort to make our standardization documents better, the DoD provides this form for use in submitting comments and suggestions for improvements. All users of military standardization documents are invited to provide suggestions. This form may be detached, folded along the lines indicated, taped along the loose edge (**DO NOT STAPLE**), and mailed. In block 5, be as specific as possible about particular problem areas such as wording which required interpretation, was too rigid, restrictive, loose, ambiguous, or was incompatible, and give proposed wording changes which would alleviate the problems. Enter in block 6 any remarks not related to a specific paragraph of the document. If block 7 is filled out, an acknowledgement will be mailed to you within 30 days to let you know that your comments were received and are being considered.

NOTE: This form may not be used to request copies of documents, nor to request waivers, deviations, or clarification of specification requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

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(Fold along this line)

DEFENSE LOGISTICS AGENCY



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NECESSARY
IF MAILED
IN THE
UNITED STATES

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE \$300

BUSINESS REPLY MAIL

FIRST CLASS PERMIT NO. 4966 WASHINGTON D. C.

POSTAGE WILL BE PAID BY THE DEFENSE LOGISTICS AGENCY

Commander
Defense Industrial Supply Center
ATTN: DISC-ESA
700 Robbins Avenue
Philadelphia, PA 19111-5096



