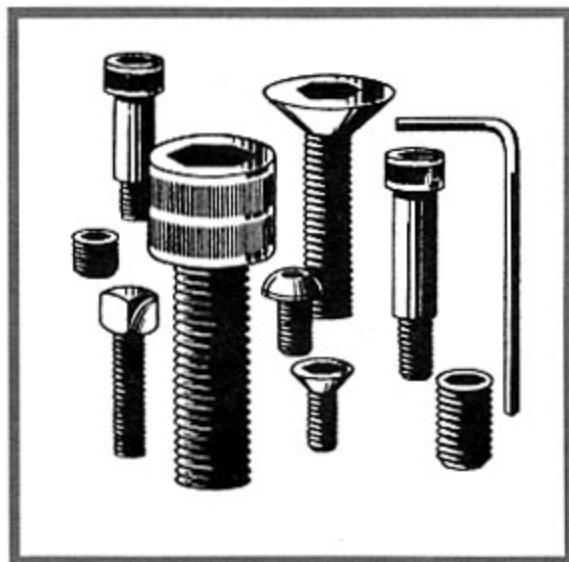
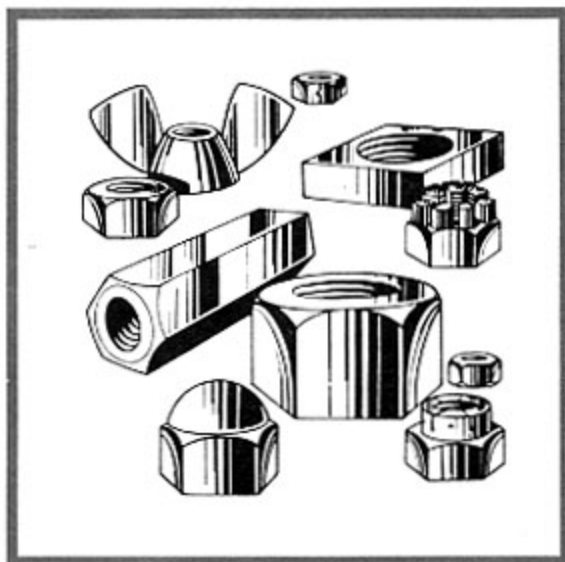
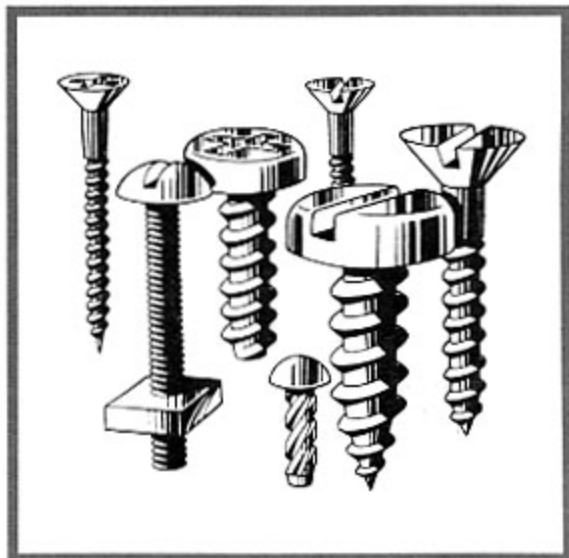




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Buyer's Guide to Industrial Fasteners



GENERAL INFORMATION

The abbreviated form of this fastener guide does not permit the inclusion of all the information normally contained in a comprehensive catalog but we are sure that you will find all of the listed facts and information to be most useful.

MATERIALS

Most items in the fastener field are available in a variety of materials including some of the more exotic alloys such as Titanium, Hastalloy, Inconel, etc., however, the more popular items are usually fabricated from one of the following:

- Grade 2 Steel — Low Carbon, general purpose
- Grade 5 Steel — Medium Carbon, heat treated
- Grade 8 Steel — Alloy, high strength
- Stainless Steel T18-8 — General purpose — corrosion resistant
- Stainless Steel T-316 — Higher corrosion resistance
- Stainless Steel T410 — Hardenable & magnetic
- Stainless Steel T430 — Magnetic — lower corrosion resistance
- Monel — Nickel/Copper Alloy, high strength & high corrosion resistance
- Nylon — Lightweight insulating
- P.V.C. — High strength plastic, corrosion resistance for outdoor use
- Brass — Non Magnetic, corrosion resistant
- Silicon Bronze — Copper alloy, good strength & corrosion resistance, electrical conductor
- Aluminum — Lightweight, good corrosion resistance, variety of alloys
- Zinc Alloy — Soft metal, anchoring & expansion devices

PLATING

A wide variety of finishes are available and the following table shows the popular types of plating.

- | | |
|--|------------------------------------|
| Cadmium I — Bright Silver | Cadmium II — Yellow Iridescent |
| Zinc I — Bluish Silver | Zinc II — Yellow Iridescent |
| Hot Dip Galv — Dull Grey | Hot Dip Tin — Dull Silver |
| Nickel — Bright Silver | Chrome — Bright Silver-bluish tint |
| Brass — Bright Brass | Black Oxide — Shiny Black |
| Anodize — Various colors on aluminum | Phosphate — Dull matt dark grey |
| Passivation — On stainless to brighten surface | Antique Brass |

SPECIALS

A large variety of special cold and hot headed parts are available from our mills. Many items that are currently produced on screw machines are adaptable to cold heading, which will naturally reduce the cost of the finished part. It is impossible to list all of the dies, etc., available as they run into many thousands of items.

We would be most happy to receive your prints and inquiries for these specialty items. Minimum mill production runs, depending on the size and shape of the special item, will run between 10M to 25M pieces.

TECHNICAL

Information regarding technical data, such as dimensions and material strength characteristics is too lengthy to be included in this brochure, but can be readily obtained by calling our office.

IMPORTED FASTENERS

In addition to the 100 or more domestic manufacturing plants that we represent, we have access to many foreign mills in Japan, Germany, Sweden, Great Britain, Italy, etc., etc.

If your requirements are such that they can be manufactured overseas we would be willing to act as your importer on these large bulk quantities. Obviously, the foreign plants have greater limitations on size and range of products than the domestic mills and their minimum requirements are quite large.

We stress that all imported items handled by us are made in strict accordance with American federal standards and carry a 100 percent guarantee.



BOLTS

- ANCHOR**
1/2" thru 1" dia. — to 18" long
- CARRIAGE**
3/16" thru 3/4" dia. — to 18" long
- EYE (Forged & Wire — Machine & Lag)**
1/4" thru 1 1/2" dia. — to 24" long
- ELEVATOR**
1/4" thru 3/8" dia. — to 3" long
- HANGAR**
1/4" thru 3/8" dia. — to 6" long
- HEAVY HEX A307 (Grade B)**
1/2" thru 1 1/2" dia. — to 8" long
- LAG (Hex & Square)**
1/4" thru 3/4" dia. — to 12" long
- LARGE DIAMETER**
1 1/4" thru 4" dia. — to 36" long
- MACHINE (Hex & Square)**
1/4" thru 1 1/2" dia. — to 30" long
- PLOW**
3/8" thru 1 1/2" dia. — to 8" long
- STEP**
1/4" thru 3/8" dia. — to 3" long
- STOVE**
1/8" thru 3/8" dia. — to 6" long
- STRUCTURAL A325**
3/8" thru 1 1/4" dia. — to 8" long
- STUD**
1/4" thru 1 1/4" dia. — to 6" long
- U**
1/4" thru 1/2" dia. — to 8" pipe



NUTS

- **ACORN**
#4 thru 3/4" dia. — NC & NF
- **COUPLING**
10-24 thru 1 1/4" — NC only
- **CASTLE**
1/2" thru 1 1/2" dia. — NF only
- **FINISHED**
1/2" thru 3" dia. — NC & NF
- **HEAVY**
1/2" thru 4" dia. — NC only
- **GRADE 2H**
1/2" thru 3" dia. — NC only
- **HOT DIP GALV**
1/2" thru 1 1/2" dia. — NC only
- **KEPS**
#4 thru 3/8" dia. — NC & NF
- **LOCKNUTS**
* CONELOCK * ESNA * ESLOK *
* FLEXLOC * GRIPCO * M-F *
* STOVER, etc.
#0 thru 2" dia. — NC & NF
- **LEFT HAND**
1/2" thru 1 1/2" dia. — NC & NF
- **MACHINE SCREW**
Hex:
#0 thru 3/8" dia. — NC & NF
Square:
#5 thru 3/8" dia. — NC only
- **PEM**
'CL' - 'S' - 'WN' series
#2 thru 1/2" dia. — NC & NF
- **PLUG**
#6 thru 1/2" dia. — NC & NF
- **SLOTTED**
1/2" thru 1 1/2" dia. — NC only
- **SQUARE**
1/4 thru 1" dia. — NC only
- **TEE**
#8 thru 3/8" dia. — NC only
(except 10-32)
- **WING**
#4 thru 3/4" dia. — NC & NF



METRIC

- **HEX CAPSCREWS**
M1.7 thru M36 dia. — to 540mm long
- **MACHINE SCREWS**
* FLAT * OVAL * PAN * FILLISTER *
M1 thru M10 dia. — to 80mm long
- **NUTS**
* HEX * LOCKNUTS *
M1 thru M80 dia. — Reg. & Fine
Threads
- **SOCKETS**
* CAPSCREWS *
M1.4 thru M36 dia. — to 400mm long
* SET SCREWS *
M1.4 thru M24 dia. — up to 100mm
long
- **WASHERS**
* FLAT * LOCK *
M1.7 thru M48 dia.



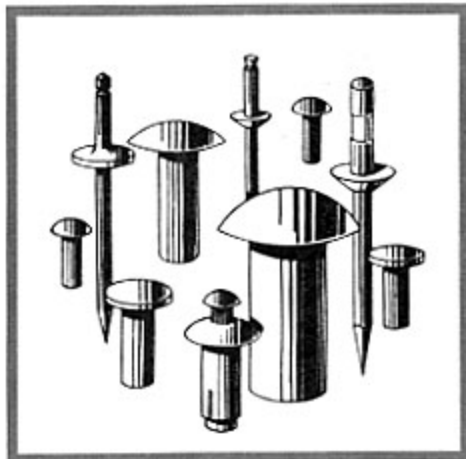
PINS

- **COTTER**
1/32" thru 3/4" dia. — to 12" long
- **DOWEL**
1/32" thru 1" dia. — to 6" long
- **ROLL & SPRING**
1/16" thru 1/2" dia. — to 4" long
- **TAPER**
9/0 thru 14 dia. — to 12" long



SCREWS

- **CAP**
* GRADE 2 * GRADE 5 * GRADE 8 *
1/4" thru 1 1/2" dia. — to 12" long
- **DOWEL**
1/4" thru 3/8" dia. — to 6" long
- **DRIVE**
* TYPE 'U' *
#0 thru #14 dia. — to 3/4" long
* WOOD *
#4 thru #16 dia. — to 3 1/2" long
- **DRYWALL**
#16 thru #10 dia. — to 2 1/4" long
- **MACHINE**
(Slotted & Phillips)
* FLAT * ROUND * FILLISTER * TRUSS *
* BINDER * PAN * OVAL * HEXAGON *
#2 thru 1/2" dia. — to 6" long
- **MINIATURE**
#0000 thru #1 dia. — to 1" long
- **NYLON**
#0 thru 1/4" dia. — to 2" long
- **SCREWNAILS**
#10 gauge thru 14 gauge — to 2 1/2" long
- **SEMS (Slotted & Phillips)**
* MACHINE SCREW WASHER
COMBINATION
#4 thru 1/4" dia. — to 2" long
- **STAPS**
* SEALING SCREWS *
#10 thru #14 dia. — to 2 1/2" long
- **TAPPING (Slotted & Phillips)**
* TYPE A * TYPE AB * TYPE B *
#2 thru #14 dia. — to 3" long
- **TEKS**
* SELF DRILLING SCREWS *
#16 thru 1/4" dia. — to 2 1/4" long
- **THREAD CUTTING**
(Slotted & Phillips)
* TYPE F * TYPE I * TYPE 23 * TYPE 25 *
#2 thru 1/4" dia. — to 2" long
- **THUMB**
* TYPE S * TYPE P *
#6 thru 1/2" dia. — to 4" long
- **WOOD (Slotted & Phillips)**
* ROUND * FLAT * OVAL *
#0 thru #24 dia. — to 6" long



RIVETS

- **AN & MS**
1/16" thru 3/8" dia. — to 2" long
- **AVDEL**
1/8" thru 3/16" dia. — to 1/2" grip
- **CHERRY**
CCR = Commercial
CNR = Nail
1/8" thru 1/4" dia. — to 1/2" grip
- **DRIVE**
1/8" thru 1/4" dia. — to 1 1/2" grip
- **LOCKBOLTS**
3/16" thru 3/8" dia. — to 4" grip



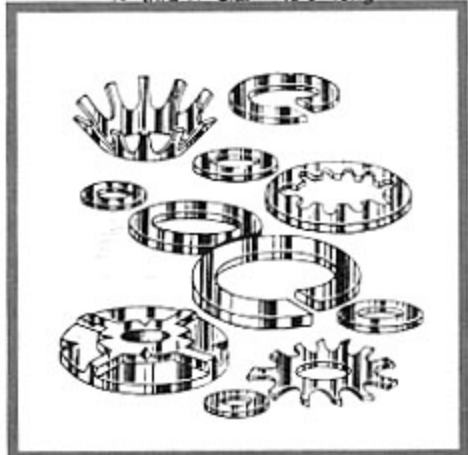
SHIELDS

- **DRILLS**
* CARBIDE * MASONRY *
3/16" thru 1 1/2" dia. — to 18" long
- **EXPANSION**
* LAG * MACHINE * BOLT *
* MACHINE SCREW *
* WOOD SCREW * NAIL DRIVE *
#6 thru 1 1/4" dia.
- **FIBRE PLUGS**
#6 thru #20 dia. — to 2" long
- **HOLLOW WALL**
1/4" X S thru 1/4" XL
- **PLASTIC**
#4-6 thru #12-14 dia.
- **SELF-DRILL**
1/4" thru 1/2" dia.
- **TOGGLE BOLTS**
1/4" thru 1/2" dia. — to 6" long



SOCKETS

- **BUTTON HEAD**
#0 thru 1/2" dia. — to 2" long
- **CAPSCREWS**
#0 thru 2" dia. — to 16" long
- **FLAT HEAD**
#0 thru 1" dia. — to 6" long
- **HEX KEYS (Long & Short Arm)**
.028" thru 1" hex
- **PIPE PLUG**
1/16" thru 1 1/4" dia. (NPTF Only)
- **SET SCREWS**
* CUP * OVAL * FLAT *
* CONE * 1/2 DOG * FULL DOG *
#0 thru 1" dia. — to 3" long
- **STRIPPER**
1/8" thru 3/8" dia. — to 5" long

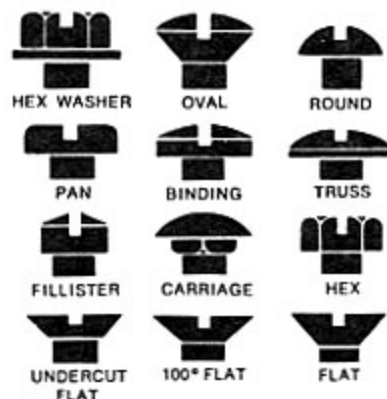


WASHERS

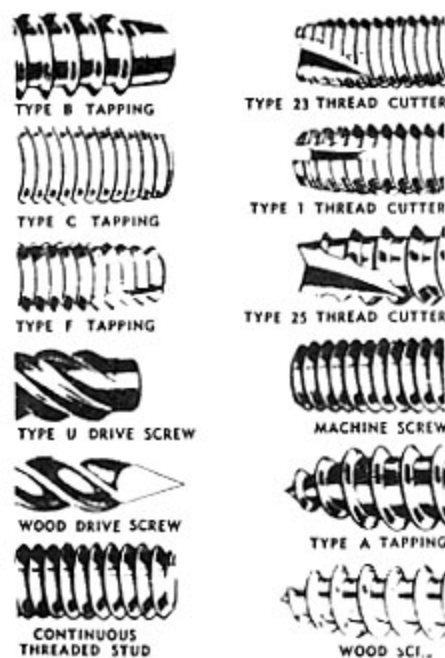
- **BEVEL**
1/4" thru 1 1/4" bolt diameter
- **FLAT**
* USS * SAE * FENDER * MACHINE SCREW *
* AN-MS-NAS SPECS * MINIATURE *
#0000 thru 3" dia.
- **FINISHING (Countersunk)**
#6 thru #16 dia.
- **LOCK**
* SPLIT * TOOTH * HI COLLAR *
* BELLEVILLE *
#2 thru 1" dia.
- **MALLEABLE**
3/8" thru 1 1/2" dia.

MISCELLANEOUS INFORMATION

STANDARD HEAD STYLES



STANDARD THREAD STYLES



HOW TO MEASURE

