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Fastener Reference Guide

Types of Bolt and Screw Heads * PAN HEAD: Recommended for new designs to replace round, truss and binding heads. Provides a love large diameter head, but with characteristically high outer edge about outer periphery of the head where driving action is most effective for high tightening rounas. Slightly different head construir where succined with recesses head. See detailed (\tilde{z}) 0 ACORN HEAD (FULL UNDERCUT): A very cation - excellent wrench surfaces. B

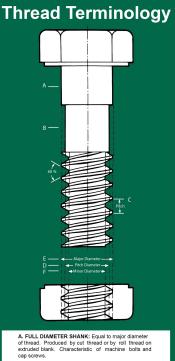
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HEX (MACHINE SCREW

HEX FINISHED

FORGED EYEBOL

SQUARE (MACHINE SCREW



B. UNDERSIZED SHANK: Equal approximately to pitch diameter of thread. Produced by roll threading a non-extruded blank. Characteristic of machine screws.

C. PITCH: The distance from a point on the screw thread to a corresponding point on the next thread measured parallel to the axis.

D. PITCH DIAMETER: The simple, effective diameter of screw thread. Approximately half way between the major and minor diameters.

E. MAJOR DIAMETER: The largest diameter of a screw

LEAD: The distance a screw thread advances axially in one

ROLLED THREAD: Threads are cold formed by squeezing the blank between reciprocating serrated dies. This acts to increase the major diameter of the thread over and above the diameter of unthreaded shank (if any), unless an extruded blank is used.

Classes of thread are distinguished from each other by the amounts of tolerance and allowance specified. External threads and boths are designated with the suffix "A"; internal or nut threads with "B".

CLASSES 1A and 1B: For work of rough commercial quality where loose fit for spin-on-assembly is desirable.

CLASSES 2A and 2B: The recognized standard for normal production of the great bulk of commercial bolts, nuts and

CLASS 5: For a wrench fit. Used principally for studs and their mating tapped holes. A force fit requiring the application of high torque for semi-permanent assembly.

ELEVATOR

FOUNDATION (HOOK BOLT)

EXPANSION

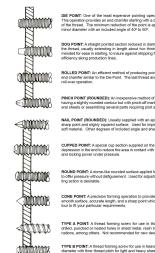
PALLET

SQUARE

(

REGULAR SQUAR

Types of Screw Points



TYPE AB POINT: A thread forming screw combining locating type point of TYPE A with th size and pitch of TYPE B, Normal Limitations of TYPE B Apply.

TYPE 17 POINT: A thread cutting screw for wood with a coa special long sharp point fluted to capture chips.

TYPE 25 POINT: A thread cutting screw silar to TYPE 23 point except with coarse TYPE 8 thread. For plastics and other soft materials with large chip cleaning and cutting edges.

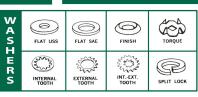
SELF-DRILLING: With special drilling points - lengths - diameters that will drill through 1/4" metal. Eliminates all hole preparation - drills faster than a drill. No punching, drilling or tapping required. Reduce die cost

SELF-PIERCING: May be used in thin sheet metal (Less than 0.05" thick) as a self-tapping of self-piercing screw. Eliminates the need for pre-punched or pre-drilled holes.

A handy reference guide for common wood screws, sheet metal screws, machine screws and bolts, nuts and

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Internal Torx Drive

