

## TOLERANCES FOR TAP DIMENSIONS



| Element                | Nominal Diameter<br>Range in inches |           | Direction     | Tolerance<br>inches |
|------------------------|-------------------------------------|-----------|---------------|---------------------|
|                        | Over                                | To (inc.) |               |                     |
| Length Overall - L     | .0520                               | 1.0100    | Plus or Minus | .031                |
|                        | 1.0100                              | 4.0100    | Plus or Minus | .063                |
| Length of Thread - l   | .0520                               | .2230     | Plus or Minus | .047                |
|                        | .2230                               | .5100     | Plus or Minus | .063                |
|                        | .5100                               | 1.5100    | Plus or Minus | .094                |
|                        | 1.5100                              | 4.0100    | Plus or Minus | .125                |
| Length of square - l2  | .0520                               | 1.0100    | Plus or Minus | .031                |
|                        | 1.0100                              | 4.0100    | Plus or Minus | .063                |
|                        | .0520                               | .2230     | Minus         | .0015               |
|                        | .2230                               | .6350     | Minus         | .0015               |
| Diameter of shank - d1 | .6350                               | 1.0100    | Minus         | .0020               |
|                        | 1.0100                              | 1.5100    | Minus         | .0020               |
|                        | 1.5100                              | 2.0100    | Minus         | .0030               |
|                        | 2.0100                              | 4.0100    | Minus         | .0030               |
| Size of square - a     | .0520                               | .5100     | Minus         | .004                |
|                        | .5100                               | 1.0100    | Minus         | .006                |
|                        | 1.0100                              | 2.0100    | Minus         | .008                |
|                        | 2.0100                              | 4.0100    | Minus         | .010                |

## TOLERANCES FOR SCREW THREADS

It is generally recognized that, in mass production, it is impossible to reproduce in exact detail the theoretically perfect product as laid out on the drawing board. The allowed slight variation between the theoretically perfect product and each unit of the actual product is called the TOLERANCE.

### Allowance

An intentional difference in correlated dimensions of mating parts. It is the minimum clearance or maximum interference between such parts.

### Angle of Thread

The angle included between the flanks of the thread measured in an axial plane.

### Half Angle of Thread

The angle included between a flank of the thread and the normal (90°) to the axis, measured in an axial plane.

### Lead of Thread

The distance a screw thread advances axially in one turn. On a single-thread screw the lead and pitch are identical. On a double thread the lead is 2X pitch, on a triple thread the lead is 3X pitch, etc.

### Major Diameter

The largest diameter of a straight screw thread.

### Minor Diameter

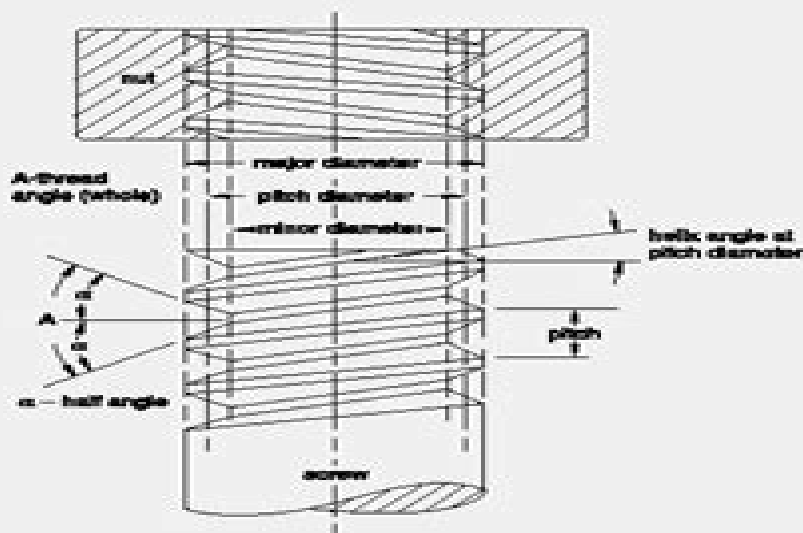
The smallest diameter of a straight screw thread.

### Pitch

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

The pitch in inches =  $\frac{1}{\text{no. of threads per inch}}$

### Screw Thread Tolerances



# Greenfield Screw Thread Manual

**Julia Schneider**



**Greenfield Screw Thread Manual:**

The book delves into Greenfield Screw Thread Manual. Greenfield Screw Thread Manual is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Greenfield Screw Thread Manual, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Greenfield Screw Thread Manual
    - Chapter 2: Essential Elements of Greenfield Screw Thread Manual
    - Chapter 3: Greenfield Screw Thread Manual in Everyday Life
    - Chapter 4: Greenfield Screw Thread Manual in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, this book will provide an overview of Greenfield Screw Thread Manual. The first chapter will explore what Greenfield Screw Thread Manual is, why Greenfield Screw Thread Manual is vital, and how to effectively learn about Greenfield Screw Thread Manual.
  3. In chapter 2, the author will delve into the foundational concepts of Greenfield Screw Thread Manual. The second chapter will elucidate the essential principles that must be understood to grasp Greenfield Screw Thread Manual in its entirety.
  4. In chapter 3, this book will examine the practical applications of Greenfield Screw Thread Manual in daily life. This chapter will showcase real-world examples of how Greenfield Screw Thread Manual can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Greenfield Screw Thread Manual in specific contexts. This chapter will explore how Greenfield Screw Thread Manual is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Greenfield Screw Thread Manual. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Greenfield Screw Thread Manual.

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