



# QUARTERLY JOURNAL OF INFORMATION

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Welcome to the Third edition of the Clamps Incorporated Newsletter  
Clamps Tech

### Metric Thread

#### Sizes Wire Forms

Clamps Incorporated offers thread sizes wire forms (U-bolt, Square Bolts, etc) in the following sizes:

- M 5 x 0.8 (Standard Pitch)
- M 6 x 1.0 (Standard Pitch)
- M 8 x 1.25 (Standard Pitch)
- M 10 x 1.5 (Standard Pitch)
- M 12 x 1.75 (Fine Pitch)
- M 16 x 2.00 (Fine Pitch)

### Imperial Thread

#### Sizes Wire Forms

Clamps Incorporated offers thread size wire forms (U-bolt, Square Bolts, etc) in the following sizes:

- 1/4 - 20
- 1/4 - 28
- 5/16 - 18
- 5/16 - 24
- 3/8 - 16
- 3/8 - 24
- 7/16 - 14
- 7/16 - 20
- 1/2 - 13
- 1/2 - 20
- 9/16 - 12
- 5/8 - 11

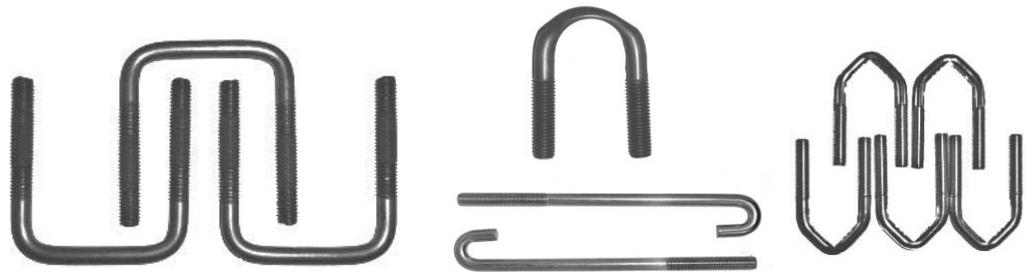
## Typical Material for U-Bolts:

**C1018 Steel** is a low carbon steel that can be easily welded and cold formed. This general purpose steel has good hardening qualities that produce a harder and more uniform case. Most 1018 steel is cold drawing which increases torsional strength, surface hardness and wear resistance. Typical uses are for parts where good workability is required, such as threading and drilling. 1018 is acceptable for all applications that do not require the strength of high carbon and alloy steels. This material accepts finishes such as zinc and chrome plating along with other protective finishes.



**C1541 Steel** is a medium carbon / manganese grade and may be supplied in its hot rolled condition, cold drawn, rough turned or turned and polished. Cold drawing 1541 steel will increase the mechanical properties, improve the size tolerance and enhance the surface. In order to meet specific mechanical properties, 1541 steel may be cold drawn and or heat treated. 1541 steel is also used in making heat treated "U" bolts. 1541 round bar is a popular choice used for a variety of construction anchor bolts. Applications for these types of bolts are muffler clamps and band clamps. These types of clamps are often used in a variety of industries, including agricultural and automotive.

**304 Stainless Steel** is a low carbon "18-8" (this steel contains both chromium, usually 18%, and nickel, usually 8%) chromium nickel steel with good corrosion resistance. This is the most versatile and widely used stainless steel. The hardness and tensile strength can be increased by cold working, that may cause slight magnetism. This general all-purpose stainless steel is good in corrosive environment and is widely accepted in many industries. It resists most oxidizing acids and salt sprays.



Minimum Material Properties

Material:	1018	1541	304
Ultimate Tensile Strength, psi	63,800	102,500	73,000
Yield Strength, psi	53,700	87,000	31,200
Elongation	15%	10%	70%
Rockwell Hardness	B71	B90	B70

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