

## NELSON STUD WELDING

### SPECIFICATION: Metric **MD** Fully Threaded Studs

Nelson MD studs are recommended for fastening applications where threads are needed for the full fastener length. MD studs are available in thread diameters of M6 through M24.

Nelson fully threaded studs have a short length of pitch diameter weld base. Most of this length is melted off during the stud welding process so that usable thread extends down to the top of the weld flash on installed studs.

For similar function metric studs, see **MP Partially Threaded studs** and **MR Reduced Base Threaded studs**. In the imperial line of Nelson studs, see **CFP Small Diameter Threaded studs**, **CPL Fully Threaded studs**, **HBA Aluminum Full Base Diameter Threaded studs**, **HBL Full Base Diameter Threaded studs**, **Bending Cable Hangers**, **Crimp-Lok™ Cable Hangers**, and **Watertight nuts**.

When ordering, specify Type, Diameter, Before Weld Length, Material, Quantity, and Part Number

Example: MD M16 x 2.00 x 34.00mm; Mild Steel; 10,000 pieces; #101012903

| Thread Size | Minimum Stud Length | Weld Base Diameter C | Weld Base Length A | Burn Off | Weld Flash Size |          | Flash Clearance * | Required Standard Accessories |           |           |           |
|-------------|---------------------|----------------------|--------------------|----------|-----------------|----------|-------------------|-------------------------------|-----------|-----------|-----------|
|             |                     |                      |                    |          | Diameter E      | Height F |                   | Female                        | Grip      | Chuck     | Foot      |
| M6 x 1.00   | 18                  | 5.30                 | 4.00               | 2.00     | 9.10            | 3.00     | 11.10             | 100101067                     | 501001007 | 500001267 | 502001137 |
| M8 x 1.25   | 23                  | 7.10                 | 4.00               | 3.00     | 11.00           | 3.50     | 12.70             | 100101024                     | 501001006 | 500001009 | 502001137 |
| M10 x 1.50  | 23                  | 8.99                 | 5.00               | 3.00     | 12.30           | 4.00     | 13.90             | 100101240                     | 501001006 | 500001269 | 502001137 |
| M12 x 1.75  | 24                  | 10.90                | 6.00               | 3.00     | 16.00           | 4.50     | 17.50             | 100101027                     | 501001009 | 500001206 | 502001137 |
| M16 x 2.00  | 29                  | 14.60                | 6.00               | 4.00     | 20.50           | 7.00     | 22.00             | 100101028                     | 501001011 | 500001016 | 502001138 |
| M20 x 2.5   | 35                  | 18.30                | 7.00               | 5.00     | 26.00           | 9.00     | 27.50             | 100101239                     | 501001014 | 500001272 | 502001138 |
| M24 x 3.00  | 35                  | 22.00                | 8.00               | 6.00     | 35.00           | 10.00    | 36.50             | 100101045                     | 501001016 | 500001274 | 502001144 |

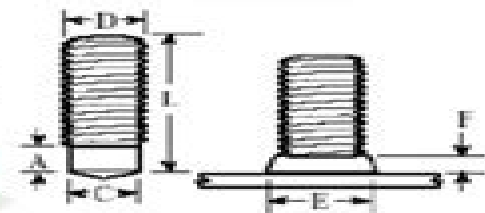
**MATERIALS:** Studs are available in Low Carbon Mild Steel and Stainless Steel. For specific grade information, physical and chemical properties, conforming standards, and information on stud plating and heat treating, please see **General Material Specifications**.

**THREADS:** Standard MD studs are available with up to 75-mm. of thread length in ISO 13918 6g series thread. Other thread pitch series, and thread lengths greater than 75-mm. are available as special order.

**FLUX:** All Nelson partially threaded MD studs have a solid flux load.

✓ Check Standard Stock

MD



Visit our website [www.NelsonStudWelding.com](http://www.NelsonStudWelding.com) for a list of our standard stock products.

# Nelson Stud Design Manual

**Karin Nielsen-Saines**



## **Nelson Stud Design Manual:**

Design Manual United States. Naval Facilities Engineering Command, 1975      Manual of Numerical Methods in Concrete M Y H Bangash, 2001-07-27 Manual of numerical methods in concrete aims to present a unified approach for the available mathematical models of concrete linking them to finite element analysis and to computer programs in which special provisions are made for concrete plasticity cracking and crushing with and without concrete aggregate interlocking Creep temperature and shrinkage formulations are included and geared to various concrete constitutive models      *Hitchcock's Assembly and Fastener Directory*, 1963      *Machine Design*, 1963-03      **Iron Trade and Western Machinist**, 1962-03  
Welding Journal, 1945 Current welding literature included in each volume      *The Fasteners Book Issue*, 1963      **PCI Manual on Design of Connections for Precast Prestressed Concrete** PCI Committee on Connection Details, 1973  
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