

NELSON STUD WELDING

SPECIFICATION: “W”-Top Wide Flange Studs



Nelson “W”-Top wide flange studs were developed for applications involving thin base material where full thread strength development was needed. Both metric and imperial thread versions of this stud are available for automotive and industrial customers.

These studs are welded using the Short Cycle weld process to thin sheet metal. The large diameter weld base provides increased weld area fusion to the base material. The wide flange isolates the assembly tension applied to the threads so that it cannot dimple or pull a hole in the base material.

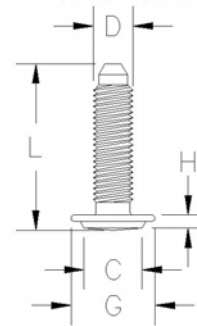
The chamfer and dog point on the unwelded end of Nelson “W”-Top studs greatly facilitates rapid installation of nuts on the welded studs.

“W”-Top studs can be automatically fed to Nelson rectifier powered welding guns, which may be hand held, press, or robotically manipulated, to weld the studs.

“W”-Top studs are widely used in high volume automotive and appliance applications.

For similar function studs, see Nelson [Grounding studs](#), [ANC Unthreaded Stored Arc® studs](#), [ATC Stored Arc® studs](#), and [AXC® Fir Tree® type studs](#).

“W” Top



When ordering, specify Type, Thread Size, Overall Length, Material, Plating, Quantity, and Part Number

Example 1: “W”-Top 1/4-20 x 1-1/16”; Mild Steel; Copper Plated; 5,000 pieces; #101056077

Example 2: “W”-Top M6 x 20; Mild Steel; Clear Zinc Dichromate Plated; 5,000 pieces; #101056075

Thread Type	Weld base C	Thread Size D	Length L	Flange Diameter G	Flange Height H
1/4-20 x 3/4	0.354	1/4-20	3/4	13	2
1/4-20 x 1-1/16	0.354	1/4-20	1-1/16	13	2
M6 x 20 mm	9	M6	20	13	2
M6 x 25 mm	9	M6	25	13	2
M8 x 25 mm	9	M6	25	13	2

MATERIALS: Studs are available in Low Carbon Mild Steel and 18-8 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 external threads are UNC-2A imperial or ISO R261, 6g metric.

Visit our website www.NelsonStudWelding.com for a list of our standard stock products.