

STANLEY
Engineered Fastening



NELSON[®]

STUDS & FERRULES
CATALOGUE- EU



NELSON - Your Trusted Partner for Stud Welding Solutions in Europe and the Middle East

Since Ted Nelson invented stud welding in 1938, this technology has expanded its fields of applications over the years. NELSON Stud Welding is now the leading worldwide provider of complete automatic welding systems and stud welding equipment. Our range covers drawn arc and short cycle applications, from manual hand welding to robotic production lines.

The Global Leader in Stud Welding Solutions

If you're looking for high-quality stud welding solutions, you've come to the right place. At NELSON, we offer a complete range of equipment, studs, and accessories, designed to meet your specific needs and requirements. With our extensive distribution network and technical expertise, we can provide the support and guidance you need to succeed in Europe and the Middle East.

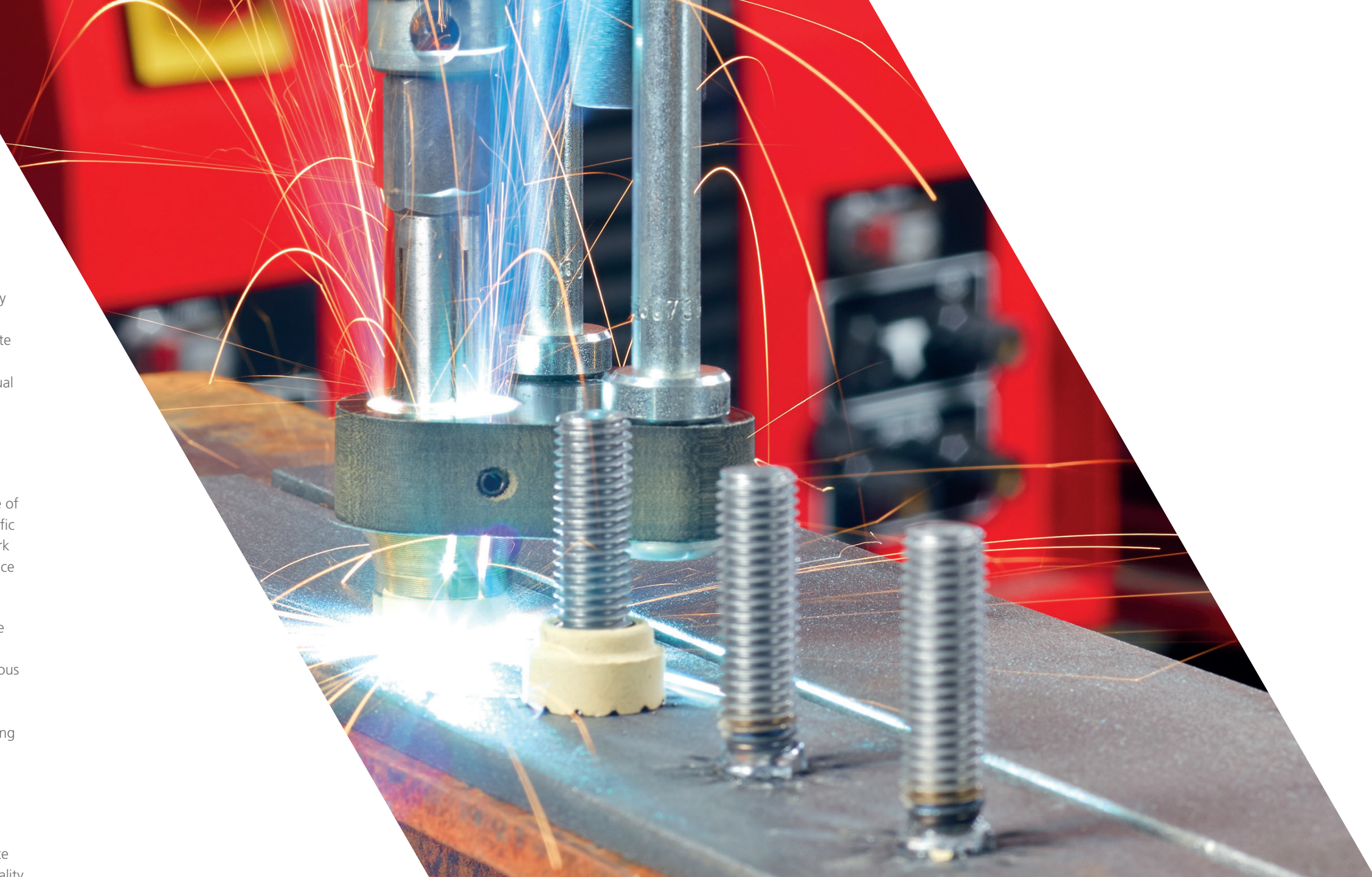
With more than 80 years of experience in delivering dependable and effective solutions to customers globally, we take pride in having successfully completed thousands of projects across various applications, such as construction, manufacturing, shipbuilding, nuclear, bridges, infrastructure, civil engineering, electrical, and grounding. We can assist you in identifying the ideal stud welding solution to meet your requirements.

Quality. Assured.

NELSON holds certifications for quality approvals and also for environmental and health and safety management. Our concrete anchors and shear connectors in structural engineering hold quality certificates.

Equipment Catalog

For more information on the specific equipment required to install the studs featured in this catalog, please consult our Equipment Catalog - EU, which is accessible on our website.



This catalog showcases our latest assortment of premium-grade studs and ferrules available in the EMEA region, meticulously designed to cater to the requirements of any fastening application. With a vast array of sizes and materials to select from, you can be confident in discovering the ideal solution to meet your specific stud welding needs.

NELSON®

Index

NELSON Studs & Ferrules Catalogue - EU

General Studs & Material Specifications

General Stud Specifications

Material Specifications

How To Order Nelson Studs

NELSON Studs For Drawn Arc Welding

Shear Connectors

SD Shear Connectors

Externally Threaded Studs

MPF Threaded Studs With Threaded Until Shortly Before The Welding Tip

RD Threaded Studs With Reduced Shaft

PD Threaded Studs With Part Thread

DD Threaded Studs With Continuous Thread

M Threaded Studs With Part Thread Similar PD

KRS Collar Studs - Plain

KRB Collar Studs- Threaded

Unthreaded Studs

UD Unthreaded Stud With and Without Centering Bore

Internally Threaded Studs

ID Studs With Internal Thread

NELSON Studs for Short Cycle

Short Cycle Studs

SC-Z Fir Tree Studs

SWB 130 Metric Studs

W-TOP Large Flange Ground Studs

SC-KRB Ground Studs

NELSON Accessories

Ferrules

KR Ferrules

Studs & Material Specifications

The primary method used by NELSON to produce stud welded fasteners is the Cold Forming process. Utilizing the same cold heading production equipment, NELSON produces an extensive line of non-welded, cold- formed parts. These parts can be custom designed to satisfy the specific requirements of individual customers. Please contact us for more information on our cold-formed offering.

General Stud Specifications

Threads

The standard external threads on studs are UNC-2A, and internal threads are UNC-2B, prior to plating. Other threads are available upon request. Whenever possible, threads are cold-rolled. The surface quality and strength of rolled threads is greatly improved compared to cut threads. The surface finish on rolled threads is less subject to wear and offers more corrosion resistance than cut threads. Standard thread length is 76mm but longer thread lengths may be ordered.

Flux

Flux quality and quantity is an essential factor for obtaining consistent weld results. All standard stud weld Nelson studs 8 mm diameter and greater have a solid flux load. Rectangular studs 3 mm x 15 mm and less are not fluxed.

Ferrules

For weld integrity, certain stud types must be welded using a ceramic ferrule. Appropriate ceramic ferrules are included in the stud purchase price. Ferrules will be shipped with studs, when required. Ferrules for welding special applications should be specified when orders for studs are placed.

Plating

Plating is available to increase a stud's corrosion resistance properties. Upon request, several types of surface protection are available, consult your NELSON representative for more information. Unless otherwise specified at the time of order, all NELSON studs will be supplied un-plated.

Annealing

NELSON studs can be post annealed to a maximum of 75 Rockwell B hardness (HRB) for low carbon steel and 85 HRB for stainless steel. An extra charge is applicable for annealing and will be quoted if specified at the time of order.

Accessories

Accessories depend on the stud type, diameter, length, and the ferrule being used, along with any specific fixturing or job conditions or restrictions.

Weld Flash

When a stud is end-welded, weld metal forms around its base. The weld flash dimension is controlled by the design of the ferrule used. The diameter of the weld metal is generally larger than the diameter of the stud. Consideration is required in the design of mating parts that involve weld flash. Refer to the appropriate stud specification sheets for recommended weld flash clearance hole diameters.

Studs & Material Specifications

Material Specifications

NELSON produces weld studs made from a variety of materials to meet global customer requirements. The following common material properties are listed below. The stated physical requirements and chemical properties listed apply regardless of stud size or shape. Certificates of conformance, chemical analysis and physical properties are available upon request. Please consult your NELSON representative for any materials not covered or specific questions regarding material grades.

Weld Processes

- Drawn Arc
- Short Cycle
(Gas Arc) – short cycle with gas

Shielding types

- Ferrule
- Gas
- Ferrule with gas

Material Specifications					
Material	Tensile Strength Rm N/mm2	Yield Point Rp 0,2 N/mm2	AISI	DIN-EN	Atmospheric Temperature Max.
1.4301 Stainless Steel	500-700	195	301/304 H	X5CrNi18-10	450-500° C
4.8 Steel	400	320	n/a	n/a	n/a
6.8 Steel	600	480	n/a	n/a	n/a
8.8 Steel	800	640	n/a	n/a	n/a

Studs & Material Specifications

Studs Dimensions

The length dimension L shown throughout this catalog, is the overall stud length before weld. The after weld, in-place length of the stud will be shorter. Length reduction is dependent on the diameter of the stud, the welding process and settings as well as material grades. Reference values can be found in the table below. The stud end configuration (chamfer, concentricity, and manufacturer's identification) will be selected at our option, depending on production requirements.

Length Reduction After Weld	
Stud Diameter	Reduction After Weld
M6 and 6 mm diameter studs	2 mm
M8, 8 mm, M10, 10 mm, and M12 diameter studs	3 mm

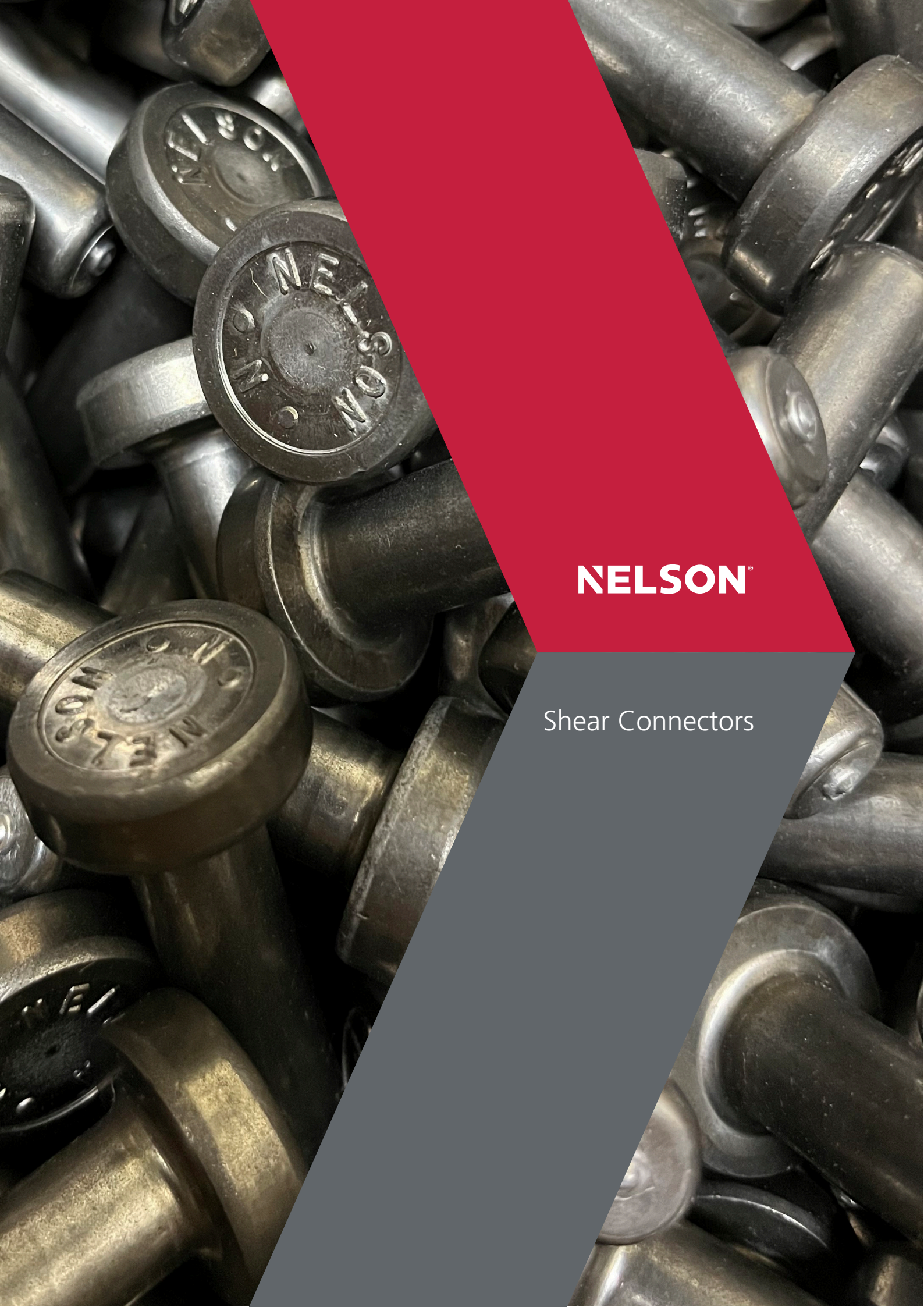
Ordering NELSON Studs

Each stud ordered from NELSON Stud Welding should be listed separately along with the appropriate ferrule. The stud style should be specified as well as the length, diameter, material, quantity, and any other information according to the stud specification sheet.

Your NELSON representative will be happy to assist you in identifying the appropriate stud to meet your application needs. Additionally, our NELSON representatives are available to assist in determining the necessary welding parameters, fixtures, accessories, or other tools required to weld NELSON studs effectively.

When ordering, please specify: Type, Diameter x Before Weld Length, Material & Quantity

How To Order Example: NELSON shear connector type SD, 10 x 100 mm, Material 1.4301 Stainless Steel, 5.000



NELSON®

Shear Connectors

NELSON®

SD

Shear Connectors

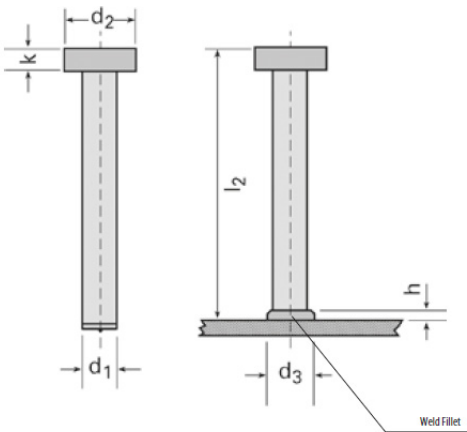
NELSON shear connectors are typically used in composite steel construction for holding concrete slabs to steel members to resist shear forces and increase shear loading capacity in steel buildings, bridges, columns caissons, containment liners, etc. They also act as embedment anchors on miscellaneous embedded plates, frames, angles, strip plates, attachments and connections.

Materials:

- S235J2 + C450 Steel
- 1.4301 Stainless Steel

Certifications:

- European Technical Approval ETA-03/0041
- Certificate of compliance
- EC conformity certificate



Shear Connectors - Steel													
Ø (mm)	l2 (mm)	Piece/ Barrel	Weight (kg/100)	d1 (mm)	d2 (mm)	d3 (mm)	k (mm)	h (mm)	Recommended Standard Accessories				
									Ferrule	Chuck	Ferrule Grip	Foot Assembly	
												NS 20	NS 40
10	50	4500	4,1	10,0	19,0	12,5	7,0	2,5	60-00-36	25-48-00	65-41-00	n/a	36-06-14
	75	3300	5,4	10,0	19,0	12,5	7,0	2,5	60-00-36	25-48-00	65-41-00	n/a	36-06-14
	100	2400	6,8	10,0	19,0	12,5	7,0	2,5	60-00-36	25-48-00	65-41-00	n/a	36-06-14
	125	1900	8,2	10,0	19,0	12,5	7,0	2,5	60-00-36	25-48-00	65-41-00	n/a	36-06-14
	150	1400	9,5	10,0	19,0	12,5	7,0	2,5	60-00-36	25-48-00	65-41-00	n/a	36-06-14
	175	1000	10,8	10,0	19,0	12,5	7,0	2,5	60-00-36	25-48-00	65-41-00	n/a	36-06-14
13	25	4000	5,2	13,0	25,0	17,0	8,0	3,0	60-00-22	92-02-03	65-36-00	36-06-00	36-06-15
	50	2500	7,7	13,0	25,0	17,0	8,0	3,0	60-00-22	92-02-03	65-36-00	36-06-00	36-06-15
	75	1800	10,2	13,0	25,0	17,0	8,0	3,0	60-00-22	92-02-03	65-27-00	36-06-00	36-06-15
	100	1400	12,7	13,0	25,0	17,0	8,0	3,0	60-00-22	92-02-03	65-27-00	36-06-00	36-06-15
	125	1100	15,2	13,0	25,0	17,0	8,0	3,0	60-00-22	92-02-03	65-27-00	36-06-00	36-06-15
	150	900	17,7	13,0	25,0	17,0	8,0	3,0	60-00-22	92-02-03	65-27-00	36-06-00	36-06-15
	175	700	20,2	13,0	25,0	17,0	8,0	3,0	60-00-22	92-02-03	65-27-00	36-06-00	36-06-15

SD

Shear Connectors

Shear Connectors - Steel													
Ø (mm)	l2 (mm)	Piece/ Barrel	Weight (kg/100)	d1 (mm)	d2 (mm)	d3 (mm)	k (mm)	h (mm)	Recommended Standard Accessories				
									Ferrule	Chuck	Ferrule Grip	Foot Assembly	
												NS 20	NS 40
16	35	2000	9,2	16,0	32,0	21,0	8,0	4,5	60-00-27	25-50-00	65-98-00	36-06-00	n/a
	50	1500	11,7	16,0	32,0	21,0	8,0	4,5	60-00-27	25-50-00	65-98-00	36-06-00	n/a
	75	1200	15,6	16,0	32,0	21,0	8,0	4,5	60-00-27	25-50-00	65-29-00	36-06-00	n/a
	100	900	19,5	16,0	32,0	21,0	8,0	4,5	60-00-27	25-50-00	65-29-00	36-06-00	n/a
	125	700	24,2	16,0	32,0	21,0	8,0	4,5	60-00-27	25-50-00	65-29-00	36-06-00	n/a
	150	600	27,2	16,0	32,0	21,0	8,0	4,5	60-00-27	25-50-00	65-29-00	36-06-00	n/a
	175	500	31,1	16,0	32,0	21,0	8,0	4,5	60-00-27	25-50-00	65-29-00	36-06-00	n/a
	200	400	35,8	16,0	32,0	21,0	8,0	4,5	60-00-27	25-50-00	65-29-00	36-06-00	n/a
19	50	1250	16,1	19,0	32,0	24,0	10,0	6,0	60-00-33	25-50-00	65-29-00	36-06-00	n/a
	60	1100	17,6	19,0	32,0	24,0	10,0	6,0	60-00-33	25-50-00	65-29-00	36-06-00	n/a
	75	950	21,0	19,0	32,0	24,0	10,0	6,0	60-00-33	25-50-00	65-29-00	36-06-00	n/a
	80	850	22,1	19,0	32,0	24,0	10,0	6,0	60-00-33	25-50-00	65-29-00	36-06-00	n/a
	100	700	26,6	19,0	32,0	24,0	10,0	6,0	60-00-33	25-50-00	65-29-00	36-06-00	n/a
	125	600	32,2	19,0	32,0	24,0	10,0	6,0	60-00-33	25-50-00	65-29-00	36-06-00	n/a
	150	500	37,8	19,0	32,0	24,0	10,0	6,0	60-00-33	25-50-00	65-29-00	36-06-00	n/a
	175	400	43,4	19,0	32,0	24,0	10,0	6,0	60-00-33	25-50-00	65-29-00	36-06-00	n/a
22	200	350	51,8	19,0	32,0	24,0	10,0	6,0	60-00-33	25-50-00	65-29-00	36-06-00	n/a
	90	600	32,7	22,0	35	28,0	10,0	6,0	60-00-30	25-51-00	65-30-00	36-06-00	n/a
	100	550	36,0	22,0	35	28,0	10,0	6,0	60-00-30	25-51-00	65-30-00	36-06-00	n/a
	125	450	44,2	22,0	35	28,0	10,0	6,0	60-00-30	25-51-00	65-30-00	36-06-00	n/a
	150	350	52,4	22,0	35	28,0	10,0	6,0	60-00-30	25-51-00	65-30-00	36-06-00	n/a
	175	310	60,6	22,0	35	28,0	10,0	6,0	60-00-30	25-51-00	65-30-00	36-06-00	n/a
	200	250	66,4	22,0	35	28,0	10,0	6,0	60-00-30	25-51-00	65-30-00	36-06-00	n/a
	250	200	81,3	22,0	35	28,0	10,0	6,0	60-00-30	25-51-00	65-30-00	36-06-00	n/a
	300	170	96,3	22,0	35	28,0	10,0	6,0	60-00-30	25-51-00	65-30-00	36-06-00	n/a

SD

Shear Connectors

Shear Connectors - Stainless Steel														
Ø (mm)	l2 (mm)	Piece/ Barrel	Weight (kg/100)	d1 (mm)	d2 (mm)	d3 (mm)	k (mm)	h (mm)	Recommended Standard Accessories					
									Ferrule	Chuck	Ferrule Grip	Foot Assembly		
												NS 20	NS 40	
10	50	4500	4,1	10,0	19,0	12,5	7,0	2,5	60-00-36	25-48-00	65-41-00	n/a	36-06-14	
	75	3300	5,4	10,0	19,0	12,5	7,0	2,5	60-00-36	25-48-00	65-41-00	n/a	36-06-14	
	100	2400	6,8	10,0	19,0	12,5	7,0	2,5	60-00-36	25-48-00	65-41-00	n/a	36-06-14	
13	50	2500	7,7	13,0	25,0	17,0	8,0	3,0	60-00-22	92-02-03	65-36-00	36-05-00	36-06-15	
	75	1800	10,2	13,0	25,0	17,0	8,0	3,0	60-00-22	92-02-03	65-27-00	36-05-00	36-06-15	
	100	1400	12,7	13,0	25,0	17,0	8,0	3,0	60-00-22	92-02-03	65-27-00	36-05-00	36-06-15	
	125	1100	15,2	13,0	25,0	17,0	8,0	3,0	60-00-22	92-02-03	65-27-00	36-05-00	36-06-15	
	150	900	17,7	13,0	25,0	17,0	8,0	3,0	60-00-22	92-02-03	65-27-00	36-05-00	36-06-15	
	175	700	20,2	13,0	25,0	17,0	8,0	3,0	60-00-22	92-02-03	65-27-00	36-05-00	36-06-15	
16	50	1500	11,7	16,0	32,0	21,0	8,0	4,5	60-00-27	25-50-00	65-98-00	36-05-00	n/a	
	75	1200	15,6	16,0	32,0	21,0	8,0	4,5	60-00-27	25-50-00	65-29-00	36-05-00	n/a	
	100	900	19,5	16,0	32,0	21,0	8,0	4,5	60-00-27	25-50-00	65-29-00	36-05-00	n/a	
	125	700	24,2	16,0	32,0	21,0	8,0	4,5	60-00-27	25-50-00	65-29-00	36-05-00	n/a	
	150	600	27,2	16,0	32,0	21,0	8,0	4,5	60-00-27	25-50-00	65-29-00	36-05-00	n/a	
19	80	850	22,1	19,0	32,0	24,0	10,0	6,0	60-00-33	25-50-00	65-29-00	36-05-00	n/a	
22	300	170	96,3	22,0	35,0	28,0	10,0	6,0	60-00-30	25-51-00	65-30-00	36-05-00	n/a	



NELSON®

Threaded Studs

NELSON®

MPF

Threaded Studs With Threaded Until Shortly Before The Welding Tip

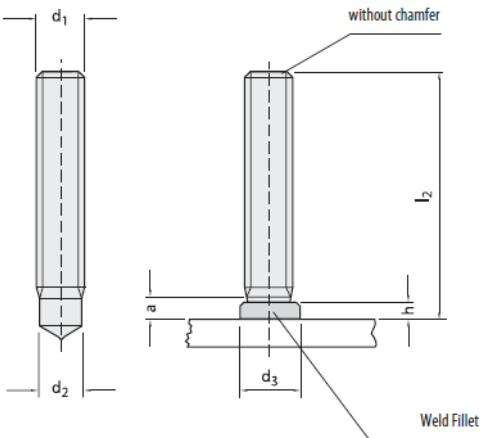
NELSON MPF studs have a short unthreaded weld base such that after welding the usable threads essentially extend down to the weld metal. They are used for fastening applications on heavy gauge base materials where development of the full fastener strength is needed. The short unthreaded section minimizes the weld flash diameter and height. It also reduces the possibility of stud hang up in the ferrule cavity if gun parts are slightly misaligned. Ferrules with a special low profile and large diameter are sued to weld MPF style studs.

Materials:

- 4.8
- 1.4301

Coatings:

- copper plated
- nickel plated



MPF Threaded Studs											
d1 (mm)	l2 (mm)	Weight (kg/100)	a (mm)	d2 (mm)	d3 (mm)	h (mm)	Recommended Standard Accessories				
							Ferrule	Chuck	Ferrule Grip	Foot Assembly	
										NS 20	NS 40
M 6	15	0,2	4,5	5,3	9,0	3,5	60-00-22	25-35-00	65-07-00	n/a	36-06-11
	20	0,3	4,5	5,3	9,0	3,5	60-00-22	25-07-00	65-07-00	n/a	36-06-11
	25	0,4	4,5	5,3	9,0	3,5	60-00-22	25-07-00	65-07-00	n/a	36-06-11
	30	0,5	4,5	5,3	9,0	3,5	60-00-22	25-07-00	65-07-00	n/a	36-06-11
	35	0,6	4,5	5,3	9,0	3,5	60-00-22	25-07-00	65-07-00	n/a	36-06-11
	40	0,6	4,5	5,3	9,0	3,5	60-00-22	25-07-00	65-07-00	n/a	36-06-11
	45	0,7	4,5	5,3	9,0	3,5	60-00-22	25-07-00	65-07-00	n/a	36-06-11
	50	0,8	4,5	5,3	9,0	3,5	60-00-22	25-07-00	65-07-00	n/a	36-06-11
	55	0,9	4,5	5,3	9,0	3,5	60-00-22	25-07-00	65-07-00	n/a	36-06-11
	60	1,0	4,5	5,3	9,0	3,5	60-00-22	25-07-00	65-07-00	n/a	36-06-11
	70	1,2	4,5	5,3	9,0	3,5	60-00-22	25-07-00	65-07-00	n/a	36-06-11
	80	1,3	4,5	5,3	9,0	3,5	60-00-22	25-07-00	65-07-00	n/a	36-06-11
	90	1,5	4,5	5,3	9,0	3,5	60-00-22	25-07-00	65-07-00	n/a	36-06-11
	100	1,7	4,5	5,3	9,0	3,5	60-00-22	25-07-00	65-07-00	n/a	36-06-11

MPF

Threaded Studs With Threaded Until Shortly Before The Welding Tip

MPF Threaded Studs											
d1 (mm)	l2 (mm)	Weight (kg/100)	a (mm)	d2 (mm)	d3 (mm)	h (mm)	Recommended Standard Accessories				
							Ferrule	Chuck	Ferrule Grip	Foot Assembly	
										NS 20	NS 40
M 8	15	0,4	5,0	7,1	9,9	3,0	60-01-18	25-29-00	65-09-00	n/a	40: 36-06-11
	20	0,6	5,0	7,1	9,9	3,0	60-01-18	25-08-00	65-09-00	n/a	40: 36-06-11
	25	0,7	5,0	7,1	9,9	3,0	60-01-18	25-08-00	65-09-00	n/a	40: 36-06-11
	30	0,9	5,0	7,1	9,9	3,0	60-01-18	25-08-00	65-09-00	n/a	40: 36-06-11
	35	1,0	5,0	7,1	9,9	3,0	60-01-18	25-08-00	65-09-00	n/a	40: 36-06-11
	40	1,2	5,0	7,1	9,9	3,0	60-01-18	25-08-00	65-09-00	n/a	40: 36-06-11
	45	1,4	5,0	7,1	9,9	3,0	60-01-18	25-08-00	65-09-00	n/a	40: 36-06-11
	50	1,5	5,0	7,1	9,9	3,0	60-01-18	25-08-00	65-09-00	n/a	40: 36-06-11
	55	1,7	5,0	7,1	9,9	3,0	60-01-18	25-08-00	65-09-00	n/a	40: 36-06-11
	60	1,8	5,0	7,1	9,9	3,0	60-01-18	25-08-00	65-09-00	n/a	40: 36-06-11
	70	2,2	5,0	7,1	9,9	3,0	60-01-18	25-08-00	65-09-00	n/a	40: 36-06-11
	80	2,5	5,0	7,1	9,9	3,0	60-01-18	25-08-00	65-09-00	n/a	40: 36-06-11
	90	2,8	5,0	7,1	9,9	3,0	60-01-18	25-08-00	65-09-00	n/a	40: 36-06-11
	100	3,1	5,0	7,1	9,9	3,0	60-01-18	25-08-00	65-09-00	n/a	40: 36-06-11
M 10	15*	0,8	5,5	8,95	12,5	3,4	60-01-19	25-30-00	65-10-00	n/a	40: 36-06-11
	20	1,0	5,5	8,95	12,5	3,4	60-01-19	25-09-00	65-10-00	n/a	40: 36-06-11
	25	1,3	5,5	8,95	12,5	3,4	60-01-19	25-09-00	65-10-00	n/a	40: 36-06-11
	30	1,5	5,5	8,95	12,5	3,4	60-01-19	25-09-00	65-10-00	n/a	40: 36-06-11
	35	1,8	5,5	8,95	12,5	3,4	60-01-19	25-09-00	65-10-00	n/a	40: 36-06-11
	40	2,0	5,5	8,95	12,5	3,4	60-01-19	25-09-00	65-10-00	n/a	40: 36-06-11
	45	2,3	5,5	8,95	12,5	3,4	60-01-19	25-09-00	65-10-00	n/a	40: 36-06-11
	50	2,5	5,5	8,95	12,5	3,4	60-01-19	25-09-00	65-10-00	n/a	40: 36-06-11
	55	2,7	5,5	8,95	12,5	3,4	60-01-19	25-09-00	65-10-00	n/a	40: 36-06-11
	60	3,0	5,5	8,95	12,5	3,4	60-01-19	25-09-00	65-10-00	n/a	40: 36-06-11
	70	3,5	5,5	8,95	12,5	3,4	60-01-19	25-09-00	65-10-00	n/a	40: 36-06-11
	80	4,0	5,5	8,95	12,5	3,4	60-01-19	25-09-00	65-10-00	n/a	40: 36-06-11
	90	4,5	5,5	8,95	12,5	3,4	60-01-19	25-09-00	65-10-00	n/a	40: 36-06-11
	100	5,0	5,5	8,95	12,5	3,4	60-01-19	25-09-00	65-10-00	n/a	40: 36-06-11

MPF

Threaded Studs With Threaded Until Shortly Before The Welding Tip

MPF Threaded Studs											
d1 (mm)	l2 (mm)	Weight (kg/100)	a (mm)	d2 (mm)	d3 (mm)	h (mm)	Recommended Standard Accessories				
							Ferrule	Chuck	Ferrule Grip	Foot Assembly	
										NS 20	NS 40
M 12	20	1,4	6,5	10,5	14,5	4,2	60-01-20	25-31-00	65-11-00	36-02-00	36-06-10
	25	1,8	6,5	10,5	14,5	4,2	60-01-20	25-10-00	65-11-00	36-02-00	36-06-10
	30	2,1	6,5	10,5	14,5	4,2	60-01-20	25-10-00	65-11-00	36-02-00	36-06-10
	35	2,5	6,5	10,5	14,5	4,2	60-01-20	25-10-00	65-11-00	36-02-00	36-06-10
	40	2,8	6,5	10,5	14,5	4,2	60-01-20	25-10-00	65-11-00	36-02-00	36-06-10
	45	3,2	6,5	10,5	14,5	4,2	60-01-20	25-10-00	65-11-00	36-02-00	36-06-10
	50	3,6	6,5	10,5	14,5	4,2	60-01-20	25-10-00	65-11-00	36-02-00	36-06-10
	55	3,9	6,5	10,5	14,5	4,2	60-01-20	25-10-00	65-11-00	36-02-00	36-06-10
	60	4,3	6,5	10,5	14,5	4,2	60-01-20	25-10-00	65-11-00	36-02-00	36-06-10
	70	5,0	6,5	10,5	14,5	4,2	60-01-20	25-10-00	65-11-00	36-02-00	36-06-10
	80	5,7	6,5	10,5	14,5	4,2	60-01-20	25-10-00	65-11-00	36-02-00	36-06-10
	90	6,4	6,5	10,5	14,5	4,2	60-01-20	25-10-00	65-11-00	36-02-00	36-06-10
	100	7,2	6,5	10,5	14,5	4,2	60-01-20	25-10-00	65-11-00	36-02-00	36-06-10

RD

Threaded Studs With Reduced Shaft

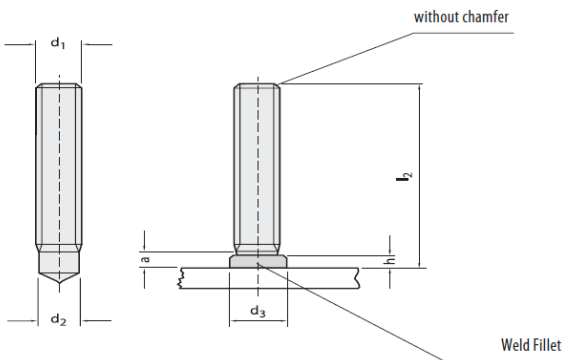
NELSON reduced base threaded studs have a smaller weld base diameter than other NELSON studs. When welded these studs produce a smaller weld flash which is compatible with the use of smaller clearance holes. The strength of the assembly is determined by the area of the reduced weld base which is smaller than the thread area.

Materials:

- 4.8 steel
- 1.4301 stainless steel

Coatings:

- copper plated
- nickel plated



RD Threaded Studs With Reduced Base											
d1 (mm)	l2 (mm)	Weight (kg/100)	a (mm)	d2 (mm)	d3 (mm)	h (mm)	Recommended Standard Accessories				
							Ferrule	Chuck	Ferrule Grip	Foot Assembly	
										NS 20	NS 40
M 6	15	0,2	4,5	4,7	6,7	2,5	60-00-42	25-35-00	65-07-00	n/a	36-06-11
	20	0,3	4,5	4,7	6,7	2,5	60-00-42	25-07-00	65-07-00	n/a	36-06-11
	25	0,4	4,5	4,7	6,7	2,5	60-00-42	25-07-00	65-07-00	n/a	36-06-11
	30	0,5	4,5	4,7	6,7	2,5	60-00-42	25-07-00	65-07-00	n/a	36-06-11
	35	0,5	4,5	4,7	6,7	2,5	60-00-42	25-07-00	65-07-00	n/a	36-06-11
	40	0,6	4,5	4,7	6,7	2,5	60-00-42	25-07-00	65-07-00	n/a	36-06-11
	45	0,7	4,5	4,7	6,7	2,5	60-00-42	25-07-00	65-07-00	n/a	36-06-11
	50	0,8	4,5	4,7	6,7	2,5	60-00-42	25-07-00	65-07-00	n/a	36-06-11
	60	1,0	4,5	4,7	6,7	2,5	60-00-42	25-07-00	65-07-00	n/a	36-06-11
	90	1,5	4,5	4,7	6,7	2,5	60-00-42	25-07-00	65-07-00	n/a	36-06-11
	100	1,5	4,5	4,7	6,7	2,5	60-00-42	25-07-00	65-07-00	n/a	36-06-11

RD

Threaded Studs With Reduced Shaft

RD Threaded Studs With Reduced Base											
d1 (mm)	l2 (mm)	Weight (kg/100)	a (mm)	d2 (mm)	d3 (mm)	h (mm)	Recommended Standard Accessories				
							Ferrule	Chuck	Ferrule Grip	Foot Assembly	
										NS 20	NS 40
M 8	15	0,4	4,5	6,2	8,8	2,5	60-01-54	25-08-00	65-09-00	n/a	36-06-11
	20	0,5	4,5	6,2	8,8	2,5	60-00-43	25-08-00	65-46-00	n/a	36-06-11
	25	0,7	4,5	6,2	8,8	2,5	60-00-43	25-08-00	65-46-00	n/a	36-06-11
	30	0,9	4,5	6,2	8,8	2,5	60-00-43	25-08-00	65-46-00	n/a	36-06-11
	35	1,0	4,5	6,2	8,8	2,5	60-00-43	25-08-00	65-46-00	n/a	36-06-11
	40	1,2	4,5	6,2	8,8	2,5	60-00-43	25-08-00	65-46-00	n/a	36-06-11
	45	1,3	4,5	6,2	8,8	2,5	60-00-43	25-08-00	65-46-00	n/a	36-06-11
	50	1,5	4,5	6,2	8,8	2,5	60-00-43	25-08-00	65-46-00	n/a	36-06-11
	55	1,7	4,5	6,2	8,8	2,5	60-00-43	25-08-00	65-46-00	n/a	36-06-11
	60	1,8	4,5	6,2	8,8	2,5	60-00-43	25-08-00	65-46-00	n/a	36-06-11
	70	2,1	4,5	6,2	8,8	2,5	60-00-43	25-08-00	65-46-00	n/a	36-06-11
	80	2,5	4,5	6,2	8,8	2,5	60-00-43	25-08-00	65-46-00	n/a	36-06-11
M 10	90	2,8	4,5	6,2	8,8	2,5	60-00-43	25-08-00	65-46-00	n/a	36-06-11
	100	3,1	4,5	6,2	8,8	2,5	60-00-43	25-08-00	65-46-00	n/a	36-06-11
	20	0,9	5,0	7,9	11,0	3,0	60-00-44	25-30-00	65-09-00	n/a	36-06-11
	25	1,2	5,0	7,9	11,0	3,0	60-00-44	25-09-00	65-09-00	n/a	36-06-11
	30	1,4	5,0	7,9	11,0	3,0	60-00-44	25-09-00	65-09-00	n/a	36-06-11
	35	1,7	5,0	7,9	11,0	3,0	60-00-44	25-09-00	65-09-00	n/a	36-06-11
	40	1,9	5,0	7,9	11,0	3,0	60-00-44	25-09-00	65-09-00	n/a	36-06-11
	45	2,2	5,0	7,9	11,0	3,0	60-00-44	25-09-00	65-09-00	n/a	36-06-11
	50	2,4	5,0	7,9	11,0	3,0	60-00-44	25-09-00	65-09-00	n/a	36-06-11
	55	2,7	5,0	7,9	11,0	3,0	60-00-44	25-09-00	65-09-00	n/a	36-06-11
	60	2,9	5,0	7,9	11,0	3,0	60-00-44	25-09-00	65-09-00	n/a	36-06-11
	70	3,4	5,0	7,9	11,0	3,0	60-00-44	25-09-00	65-09-00	n/a	36-06-11
	80	3,9	5,0	7,9	11,0	3,0	60-00-44	25-09-00	65-09-00	n/a	36-06-11
	90	4,4	5,0	7,9	11,0	3,0	60-00-44	25-09-00	65-09-00	n/a	36-06-11
	100	4,9	5,0	7,9	11,0	3,0	60-00-44	25-09-00	65-09-00	n/a	36-06-11

RD

Threaded Studs With Reduced Shaft

RD Threaded Studs With Reduced Base											
d1 (mm)	l2 (mm)	Weight (kg/100)	a (mm)	d2 (mm)	d3 (mm)	h (mm)	Recommended Standard Accessories				
							Ferrule	Chuck	Ferrule Grip	Foot Assembly	
M 12	20	1,3	6,5	9,5	13,0	4,0	60-00-45	25-10-00	65-10-00	36-01-00	36-06-11
	25	1,7	6,5	9,5	13,0	4,0	60-00-45	25-10-00	65-10-00	36-01-00	36-06-11
	30	2,0	6,5	9,5	13,0	4,0	60-00-45	25-10-00	65-10-00	36-01-00	36-06-11
	35	2,4	6,5	9,5	13,0	4,0	60-00-45	25-10-00	65-10-00	36-01-00	36-06-11
	40	2,7	6,5	9,5	13,0	4,0	60-00-45	25-10-00	65-10-00	36-01-00	36-06-11
	45	3,1	6,5	9,5	13,0	4,0	60-00-45	25-10-00	65-10-00	36-01-00	36-06-11
	50	3,5	6,5	9,5	13,0	4,0	60-00-45	25-10-00	65-10-00	36-01-00	36-06-11
	55	3,8	6,5	9,5	13,0	4,0	60-00-45	25-10-00	65-10-00	36-01-00	36-06-11
	60	4,2	6,5	9,5	13,0	4,0	60-00-45	25-10-00	65-10-00	36-01-00	36-06-11
	70	4,9	6,5	9,5	13,0	4,0	60-00-45	25-10-00	65-10-00	36-01-00	36-06-11
	80	5,6	6,5	9,5	13,0	4,0	60-00-45	25-10-00	65-10-00	36-01-00	36-06-11
	90	6,3	6,5	9,5	13,0	4,0	60-00-45	25-10-00	65-10-00	36-01-00	36-06-11
	100	7,1	6,5	9,5	13,0	4,0	60-00-45	25-10-00	65-10-00	36-01-00	36-06-11

PD

Partially Threaded Studs

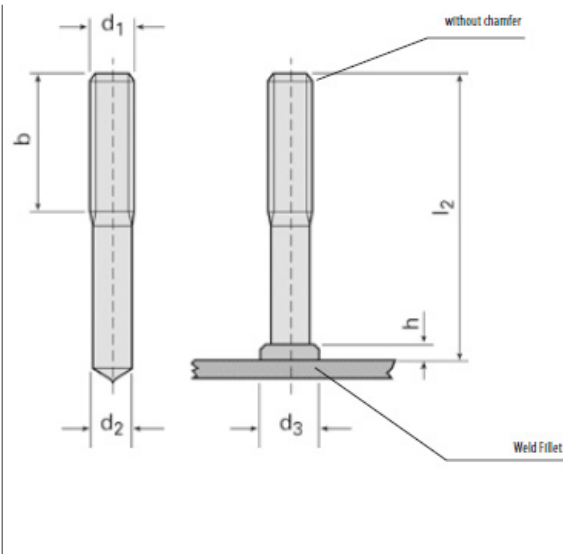
NELSON partially threaded studs are recommended for fastening applications to heavy gauge base materials where development of the full fastener strength is needed. The unthreaded section minimizes the weld flash diameter and height. It also reduces the possibility of stud hang up in the ferrule cavity if gun parts are slightly misaligned.

Materials:

- 4.8 steel
- 1.4301 stainless

Coatings:

- copper plated
- nickel plated



PD Partially Threaded Studs											
d1 (mm)	l2 (mm)	Weight (kg/100)	b (mm)	d2 (mm)	d3 (mm)	h (mm)	Recommended Standard Accessories				
							Ferrule	Chuck	Ferrule Grip	Foot Assembly	
M 10	55	2,7	40	8,95	12,5	3,4	60-00-04	25-09-00	65-09-00	n/a	36-06-11
	65	3,2	40	8,95	12,5	3,4	60-00-04	25-09-00	65-09-00	n/a	36-06-11
	80	4,0	40	8,95	12,5	3,4	60-00-04	25-09-00	65-09-01	n/a	36-06-11
	100	5,0	40	8,95	12,5	3,4	60-00-04	25-09-00	65-09-02	n/a	36-06-11
	120	6,0	40	8,95	12,5	3,4	60-00-04	25-09-00	65-09-03	n/a	36-06-11
	150	7,4	40	8,95	12,5	3,4	60-00-04	25-09-00	65-09-04	n/a	36-06-11
	200	9,9	40	8,95	12,5	3,4	60-00-04	25-09-00	65-09-05	n/a	36-06-11
	250	12,4	40	8,95	12,5	3,4	60-00-04	25-09-00	65-09-06	n/a	36-06-11
	300	14,8	40	8,95	12,5	3,4	60-00-04	25-09-00	65-09-07	n/a	36-06-11

PD

Partially Threaded Studs

PD Partially Threaded Studs											
d1 (mm)	l2 (mm)	Weight (kg/100)	b (mm)	d2 (mm)	d3 (mm)	h (mm)	Recommended Standard Accessories				
							Ferrule	Chuck	Ferrule Grip	Foot Assembly	
M 12	70	5,0	40	10,8	14,5	4,5	60-00-05	25-10-00	65-10-00	36-01-00	NS 20
	80	5,7	40	10,8	14,5	4,5	60-00-05	25-10-00	65-10-00	36-01-00	NS 40
	90	6,4	40	10,8	14,5	4,5	60-00-05	25-10-00	65-10-00	36-01-00	36-06-11
	100	7,2	40	10,8	14,5	4,5	60-00-05	25-10-00	65-10-00	36-01-00	36-06-11
	120	8,6	40	10,8	14,5	4,5	60-00-05	25-10-00	65-10-00	36-01-00	36-06-11
	130	9,3	40	10,8	14,5	4,5	60-00-05	25-10-00	65-10-00	36-01-00	36-06-11
	140	10,0	40	10,8	14,5	4,5	60-00-05	25-10-00	65-10-00	36-01-00	36-06-11
	150	10,8	40	10,8	14,5	4,5	60-00-05	25-10-00	65-10-00	36-01-00	36-06-11
	160	11,5	40	10,8	14,5	4,5	60-00-05	25-10-00	65-10-00	36-01-00	36-06-11
	200	14,4	40	10,8	14,5	4,5	60-00-05	25-10-00	65-10-00	36-01-00	36-06-11

DD

Threaded Studs With Continuous Thread

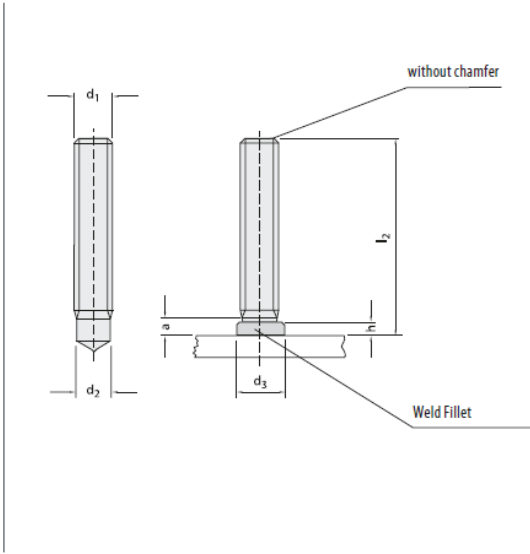
NELSON DD studs are recommended for fastening applications where threads are needed for the full fastener length. Nelson fully threaded studs have a short length of pitch diameter weld base. This length is melted off during the stud welding process so that usable thread extends down to the top of the weld flash on installed studs.

Materials:

- 4.8
- 1.4301

Coatings:

- copper plated
- nickel plated



DD Threaded Studs With Continuous Thread					
d1 (mm)	l2 (mm)	d3 (mm)	h (mm)	a (mm)	Ferrule Part No.
M 8	15 – 150	11,0	3,5	5,5	60-00-23
M 10	20 – 150	13,5	4,0	6,0	60-00-36
M 12	20 – 150	15,5	4,5	6,5	60-00-25

M

Threaded Studs With Part Thread Similar PD

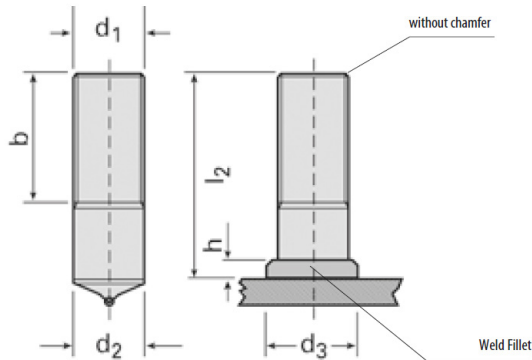
NELSON M studs are threaded studs with part thread similar to PD studs.

Materials:

- 4.8
- 1.4301

Coatings:

- copper plated
- nickel plated



M Threaded Studs										
d1 (mm)	d2 (mm)	d3 (mm)	h (mm)	b (mm)	l2 (mm)	Recommended Standard Accessories				
						Ferrule	Chuck	Ferrule Grip	Foot Assembly	
									NS 20	NS 40
10	10	13,0	4,0	on request	on request	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	10	13,0	4,0	on request	on request	60-00-36	25-09-00	65-09-00	n/a	36-06-11
12	12	16,0	5,0	on request	on request	60-00-25	25-10-00	65-11-00	36-02-00	36-06-10
	12	16,0	5,0	on request	on request	60-00-25	25-10-00	65-11-00	36-02-00	36-06-10

KRS

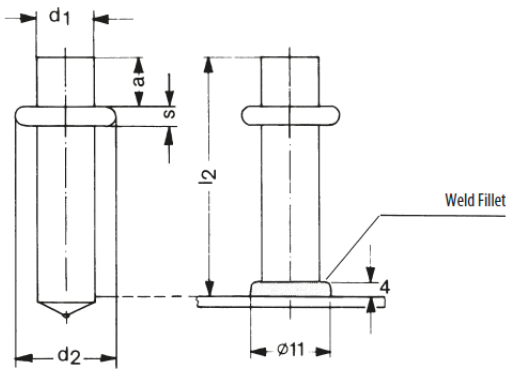
Collar Studs - Plain

Collar studs are used for mountings where a stand-off is desired, circuit boards, panels, etc. They are used to retain cables or hoses using a clip. The thread extension speeds assembly over installing a bolt into an internal threaded boss or tapped stud.

The ferrules supplied with the collar studs have gripping neck diameters larger than the collar diameter, G. This allows the gun to strip straight off the welded studs.

Materials:

- 4.8
- 1.4301



Other dimensions and threaded on request

KRS

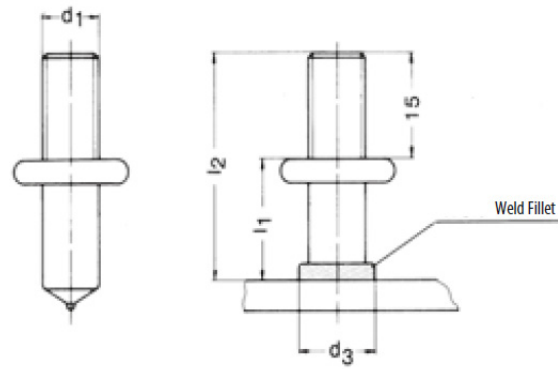
Collar Studs - Threaded

Collar studs are used for mountings where a stand-off is desired, circuit boards, panels, etc. They are used to retain cables or hoses using a clip. The thread extension speeds assembly over installing a bolt into an internal threaded boss or tapped stud.

The ferrules supplied with the collar studs have gripping neck diameters larger than the collar diameter, G. This allows the gun to strip straight off the welded studs.

Materials:

- 4.8
- 1.4301



Other dimensions and threaded on request



NELSON®

Unthreaded Studs

NELSON®

UD

Unthreaded Studs

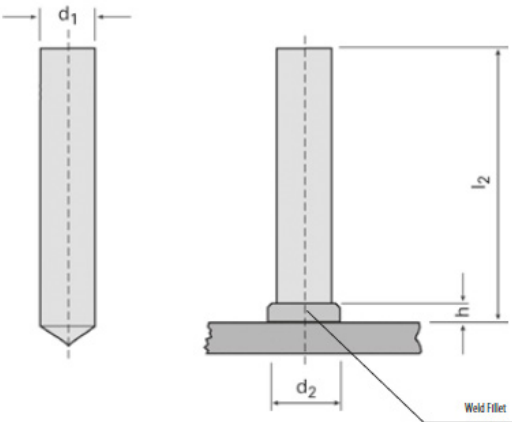
NELSON unthreaded studs are designed to be welded to heavy base materials and are used for a variety of applications. They are commonly used as locator pins, axles, pivot points, spacers, and stops. In the power generation market, they are used to anchor refractory to water walls and to facilitate heat transfer in coal burning furnaces. In forging applications, unthreaded studs are used as the tong hold on the ends of billets.

Materials:

- 4.8
- 1.4301

Coatings:

- copper plated
- nickel plated



UD Unthreaded Studs									
d1 (mm)	l2 (mm)	Weight (kg/100)	d2 (mm)	h (mm)	Recommended Standard Accessories				
					Ferrule	Chuck	Ferrule Grip	Foot Assembly	
								NS 20	NS 40
S 6	15	0,3	8,5	4,0	60-00-22	25-35-00	65-07-00	n/a	36-06-11
	20	0,4	8,5	4,0	60-00-22	25-07-00	65-07-00	n/a	36-06-11
	25	0,5	8,5	4,0	60-00-22	25-07-00	65-07-00	n/a	36-06-11
	30	0,6	8,5	4,0	60-00-22	26-31-00	65-07-00	n/a	36-06-11
	35	0,7	8,5	4,0	60-00-22	26-31-00	65-07-00	n/a	36-06-11
	40	0,8	8,5	4,0	60-00-22	26-31-00	65-07-00	n/a	36-06-11
	45	0,9	8,5	4,0	60-00-22	26-31-00	65-07-00	n/a	36-06-11
	50	1,0	8,5	4,0	60-00-22	26-93-00	65-07-00	n/a	36-06-11
	60	1,3	8,5	4,0	60-00-22	26-93-00	65-07-00	n/a	36-06-11
	80	1,7	8,5	4,0	60-00-22	26-93-00	65-07-00	n/a	36-06-11
	90	1,9	8,5	4,0	60-00-22	26-93-00	65-07-00	n/a	36-06-11
	100	2,1	8,5	4,0	60-00-22	26-93-00	65-07-00	n/a	36-06-11

UD

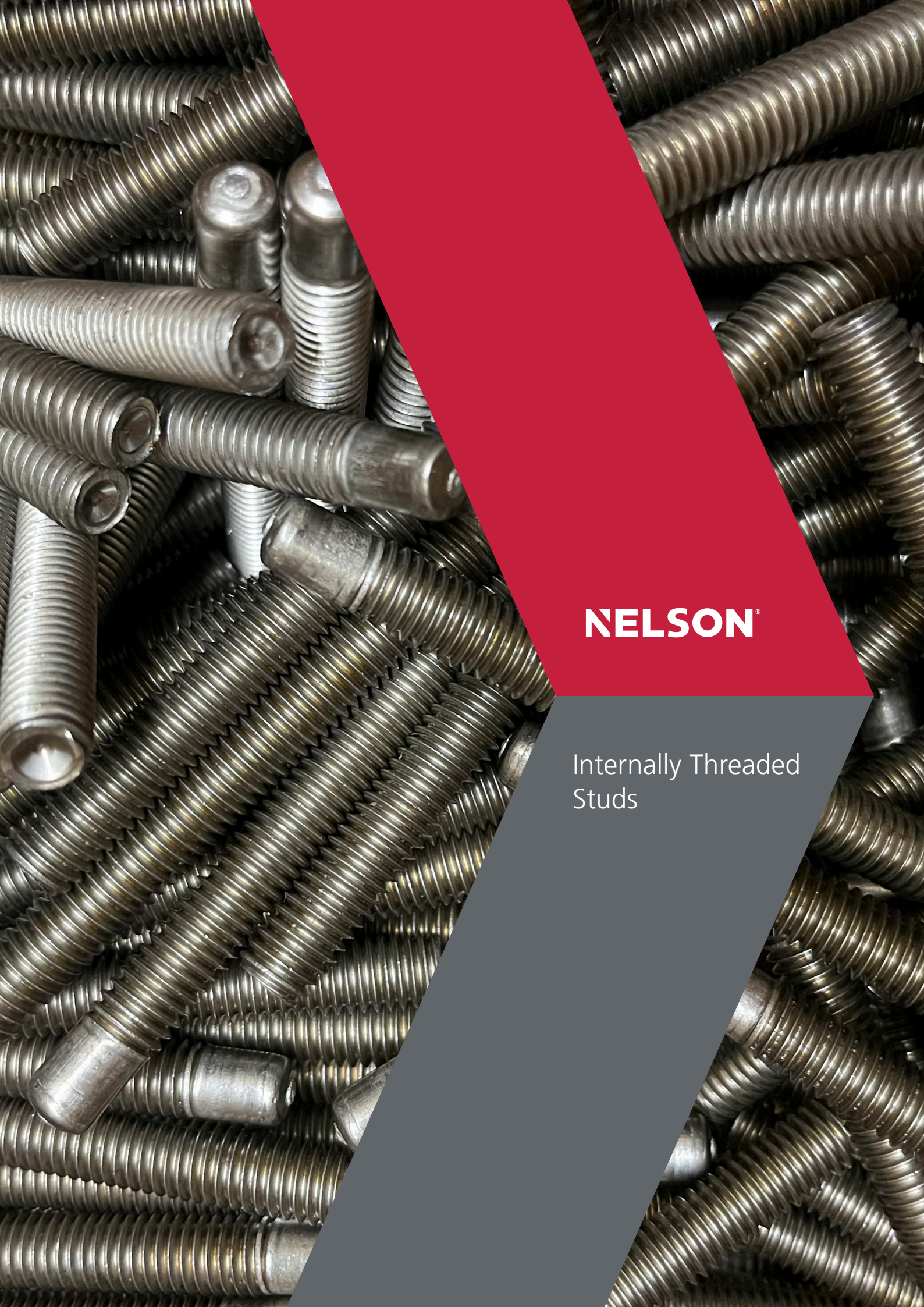
Unthreaded Studs

UD Unthreaded Studs									
d1 (mm)	l2 (mm)	Weight (kg/100)	d2 (mm)	h (mm)	Recommended Standard Accessories				
					Ferrule	Chuck	Ferrule Grip	Foot Assembly	
								NS 20	NS 40
S 8	15	0,6	11,0	4,0	60-00-23	25-36-00	65-09-00	n/a	36-06-11
	20	0,8	11,0	4,0	60-00-23	25-08-00	65-09-00	n/a	36-06-11
	25	1,0	11,0	4,0	60-00-23	25-08-00	65-09-00	n/a	36-06-11
	30	1,1	11,0	4,0	60-00-23	25-08-00	65-09-00	n/a	36-06-11
	35	1,3	11,0	4,0	60-00-23	25-08-00	65-09-00	n/a	36-06-11
	40	1,5	11,0	4,0	60-00-23	25-08-00	65-09-00	n/a	36-06-11
	45	1,7	11,0	4,0	60-00-23	25-08-00	65-09-00	n/a	36-06-11
	50	1,9	11,0	4,0	60-00-23	26-94-00	65-09-00	n/a	36-06-11
	55	2,1	11,0	4,0	60-00-23	26-94-00	65-09-00	n/a	36-06-11
	60	2,3	11,0	4,0	60-00-23	26-94-00	65-09-00	n/a	36-06-11
	80	3,1	11,0	4,0	60-00-23	26-94-00	65-09-00	n/a	36-06-11
	90	3,5	11,0	4,0	60-00-23	26-94-00	65-09-00	n/a	36-06-11
	100	3,8	11,0	4,0	60-00-23	26-94-00	65-09-00	n/a	36-06-11
	150	6,0	11,0	4,0	60-00-23	26-94-00	65-09-00	n/a	36-06-11
	200	8,0	11,0	4,0	60-00-23	26-94-00	65-09-00	n/a	36-06-11
	250	10,0	11,0	4,0	60-00-23	26-94-00	65-09-00	n/a	36-06-11
	300	12,1	11,0	4,0	60-00-23	26-94-00	65-09-00	n/a	36-06-11
S 10	20	1,2	13,0	4,0	60-00-36	25-30-00	65-09-00	n/a	36-06-11
	25	1,5	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	30	1,8	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	35	2,1	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	40	2,4	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	45	2,7	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	50	3,0	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	55	3,4	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	60	3,7	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	70	4,3	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	80	4,9	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	90	5,5	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	100	6,1	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11

UD

Unthreaded Studs

UD Unthreaded Studs									
d1 (mm)	l2 (mm)	Weight (kg/100)	d2 (mm)	h (mm)	Recommended Standard Accessories				
					Ferrule	Chuck	Ferrule Grip	Foot Assembly	
								NS 20	NS 40
S 12	20	1,8	16,0	5,0	60-00-25	25-31-00	65-11-00	36-02-00	36-06-10
	25	2,3	16,0	5,0	60-00-25	25-31-00	65-11-00	36-02-00	36-06-10
	30	2,7	16,0	5,0	60-00-25	25-10-00	65-11-00	36-02-00	36-06-10
	35	3,1	16,0	5,0	60-00-25	25-10-00	65-11-00	36-02-00	36-06-10
	40	3,6	16,0	5,0	60-00-25	25-10-00	65-11-00	36-02-00	36-06-10
	45	4,0	16,0	5,0	60-00-25	25-10-00	65-11-00	36-02-00	36-06-10
	50	4,5	16,0	5,0	60-00-25	25-10-00	65-11-00	36-02-00	36-06-10
	55	4,9	16,0	5,0	60-00-25	25-10-00	65-11-00	36-02-00	36-06-10
	60	5,4	16,0	5,0	60-00-25	25-10-00	65-11-00	36-02-00	36-06-10
	70	6,2	16,0	5,0	60-00-25	25-10-00	65-11-00	36-02-00	36-06-10
	80	7,1	16,0	5,0	60-00-25	25-10-00	65-11-00	36-02-00	36-06-10
	90	8,0	16,0	5,0	60-00-25	25-10-00	65-11-00	36-02-00	36-06-10
	100	8,9	16,0	5,0	60-00-25	25-10-00	65-11-00	36-02-00	36-06-10



NELSON®

Internally Threaded Studs

NELSON®

ID

Studs With Internal Thread - Tapped Stud

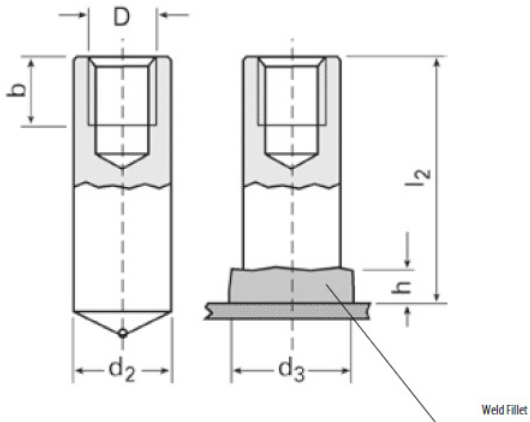
NELSON Internally threaded (also known as tapped studs) are intended to be used on heavy base materials and serve as a means of attaching or anchoring components to a structure. When maximizing the stud diameter to tap ratio, the stud can also serve as a standoff post.

Materials:

- 4.8
- 1.4301

Coatings:

- copper plated
- nickel plated



ID Tapped Studs											
D (mm)	l2 (mm)	Weight (kg/100)	b (mm)	d2 (mm)	d3 (mm)	h (mm)	Recommended Standard Accessories				
							Ferrule	Chuck	Ferrule Grip	Foot Assembly	
										NS 20	NS 40
M 6	10	0,7	6	12	13,0	4,0	60-00-61	25-97-00	65-09-00	n/a	36-06-11
	10	0,8	9	15	13,0	4,0	60-00-61	25-97-00	65-09-00	n/a	36-06-11
	10	1,0	9	20	13,0	4,0	60-00-36	25-97-00	65-09-00	n/a	36-06-11
	10	1,3	9	25	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	10	1,6	9	30	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	10	1,9	9	35	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	10	2,2	9	40	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	10	2,5	9	45	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	10	2,8	9	50	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	10	3,4	9	60	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	10	4,0	9	70	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	10	4,7	9	80	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	10	5,3	9	90	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11
	10	5,9	9	100	13,0	4,0	60-00-36	25-09-00	65-09-00	n/a	36-06-11

ID

Studs With Internal Thread - Tapped Stud

ID Tapped Studs											
D (mm)	l2 (mm)	Weight (kg/100)	b (mm)	d2 (mm)	d3 (mm)	h (mm)	Recommended Standard Accessories				
							Ferrule	Chuck	Ferrule Grip	Foot Assembly	
										NS 20	NS 40
M 8	12	1,1	8	15	16,0	5,0	60-00-63	25-31-00	65-11-00	n/a	36-06-10
	12	1,2	12	20	16,0	5,0	60-00-63	25-31-00	65-11-00	n/a	36-06-10
	14,6	2,3	12	25	18,5	5,8	60-01-65	26-90-00	65-12-00	n/a	36-06-10
	14,6	3,4	12	30	18,5	5,8	60-00-07	26-48-00	65-11-00	n/a	36-06-10
	14,6	4,1	12	35	18,5	5,8	60-00-07	26-48-00	65-11-00	n/a	36-06-10
	14,6	4,7	12	40	18,5	5,8	60-00-07	26-48-00	65-11-00	n/a	36-06-10
	14,6	5,4	12	45	18,5	5,8	60-00-07	26-48-00	65-11-00	n/a	36-06-10
	14,6	6,1	12	50	18,5	5,8	60-00-07	26-48-00	65-11-00	n/a	36-06-10
	14,6	6,8	12	55	18,5	5,8	60-00-07	26-48-00	65-11-00	n/a	36-06-10
	14,6	7,4	12	60	18,5	5,8	60-00-07	26-48-00	65-11-00	n/a	36-06-10
	14,6	8,8	12	70	18,5	5,8	60-00-07	26-48-00	65-11-00	n/a	36-06-10
	14,6	10,1	12	80	18,5	5,8	60-00-07	26-48-00	65-11-00	n/a	36-06-10
	14,6	11,4	12	90	18,5	5,8	60-00-07	26-48-00	65-11-00	n/a	36-06-10
	14,6	12,8	12	100	18,5	5,8	60-00-07	26-48-00	65-11-00	n/a	36-06-10
	14,6	2,4	10	22	18,5	5,8	60-01-65	26-90-00	65-12-00	n/a	36-06-10
M 10	14,6	3,1	15	30	18,5	5,8	60-00-07	26-48-00	65-11-00	n/a	36-06-10
	14,6	3,8	15	35	18,5	5,8	60-00-07	26-48-00	65-11-00	n/a	36-06-10
	14,6	4,4	15	40	18,5	5,8	60-00-07	26-48-00	65-11-00	n/a	36-06-10
	14,6	5,1	15	45	18,5	5,8	60-00-07	26-48-00	65-11-00	n/a	36-06-10
	14,6	5,8	15	50	18,5	5,8	60-00-07	26-48-00	65-11-00	n/a	36-06-10
	14,6	6,4	15	55	18,5	5,8	60-00-07	26-48-00	65-11-00	n/a	36-06-10
	14,6	7,1	15	60	18,5	5,8	60-00-07	26-48-00	65-11-00	n/a	36-06-10
	14,6	9,1	15	75	18,5	5,8	60-00-07	26-48-00	65-11-00	n/a	36-06-10
	16,0	2,8	10	20	21,0	7,0	60-00-27	25-99-00	65-12-00	n/a	36-06-10
	16,0	3,3	15	25	21,0	7,0	60-00-27	25-99-00	65-12-00	n/a	36-06-10
	16,0	5,4	15	40	21,0	7,0	60-00-27	25-12-00	65-12-00	n/a	36-06-10

ID

Studs With Internal Thread - Tapped Stud

ID Tapped Studs											
D (mm)	l2 (mm)	Weight (kg/100)	b (mm)	d2 (mm)	d3 (mm)	h (mm)	Recommended Standard Accessories				
							Ferrule	Chuck	Ferrule Grip	Foot Assembly	
										NS 20	NS 40
M 12	18,3	4,0	18	25	23,2	7,0	60-01-21	26-21-00	65-13-00	36-03-00	36-06-10
	18,3	5,0	18	30	23,2	7,0	60-01-21	25-13-00	65-13-00	36-03-00	36-06-10
	18,3	6,6	18	35	23,2	7,0	60-01-21	25-13-00	65-13-00	36-03-00	36-06-10
	18,3	7,1	18	40	23,2	7,0	60-01-21	25-13-00	65-13-00	36-03-00	36-06-10
	18,3	8,1	18	45	23,2	7,0	60-01-21	25-13-00	65-13-00	36-03-00	36-06-10
	18,3	9,1	18	50	23,2	7,0	60-01-21	25-13-00	65-13-00	36-03-00	36-06-10
	18,3	11,2	18	60	23,2	7,0	60-01-21	25-13-00	65-13-00	36-03-00	36-06-10
	18,3	14,3	18	75	23,2	7,0	60-01-21	25-13-00	65-13-00	36-03-00	36-06-10
	18,3	16,4	18	85	23,2	7,0	60-01-21	25-13-00	65-13-00	36-03-00	36-06-10
	18,3	19,5	18	100	23,2	7,0	60-01-21	25-13-00	65-13-00	36-03-00	36-06-10



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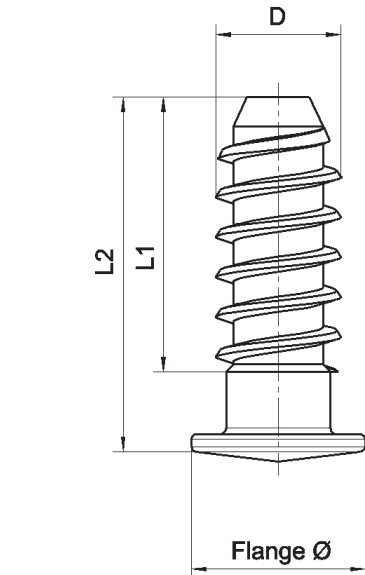
Short Cycle Stud
Welding

NELSON®

SC-Z

Fir Tree Studs

The Fir Tree stud is a coarse threaded stud specially designed for plastic fasteners. The tapered weld flange stabilises and centres the drawn arc. Examples of applications include fixing small components, pipes, plastic nuts and fixing cable holders.

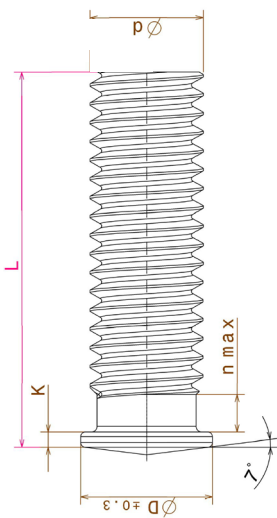


SC-Z Studs								
	Stud Dia	Flange Dia	L1	K	Material	Coating	Chuck	Notes
SWB 236	T5	6	14,2		6.8	Zinc plated	26-06-01	
SWB 148	T5	6	18		4.8	Zinc plated	26-06-01	6.8 on request
SWB 258	T5	6	20		4.8	Zinc plated	26-06-01	6.8 on request
SWB 168	T5	6	25		6.8	Zinc plated	26-06-01	
SWB 472	T5	7	14,2		6.8	Zinc plated	26-06-01	

SWB 130

Metric Studs

The SWB 130 stud is the most common geometry for fixings using a metric thread. The stud is available in different diameters and lengths to be used for mounting all types of modules and elements using a metric nut. The weld flange under the stud extends the weld zone and makes the stud feedable.



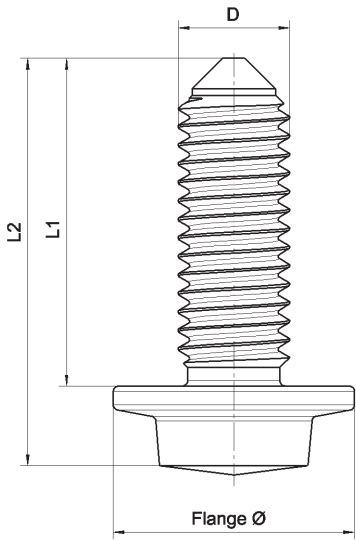
SWB 130 Studs						
	Stud Dia	Flange Dia	L1	K	Material	Coating
SWB 130	M5	6	6-60	0.7	6.8 / 8.8	Zinc plated
SWB 130	M6	7	8-60	0.8	6.8 / 8.8	Zinc plated
SWB 130	M8	9	10-60	1.0	6.8 / 8.8	Zinc plated

W-TOP

Large Flange Ground Studs With Top

Large flange studs with metric threads are chamfered at the end of the thread to enable automatic feeding and ease nut installation. Applications range from components with high torque needs, fixing modules and components.

On large flange studs, components mate on the flange rather than the sheet material. The large flange supports higher torques to be applied, even on thin sheets.



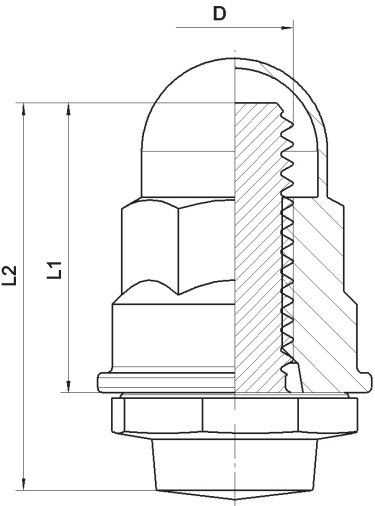
W-TOP Large Flange Ground Studs								
	Stud Dia	Flange Dia	L1	L2	Material	Coating	Chuck	Notes
SWB 673	M6	13	18,5	24	8.8	Tin zinc	26-31-00	
SWB 757	M6	13	17,7	22	8.8	Zinc plated	26-31-00	
SWB 752	M6	13	20	27,3	8.8	Zinc plated	26-31-00	
SWB 545	M6	13	12	17	8.8	Zinc plated	26-31-00	Paint Clearing
SWB 578	M6	13	17	23	8.8	Zinc plated	26-31-00	Paint Clearing
SWB 608	M6	13	19	25	8.8	Zinc plated	26-31-00	Paint Clearing

SC-KRB

Ground Studs With Cap

Our ground studs are best in class when it comes to electric grounding. High Amps and constantly low resistance over lifetime characterize this stud.

Stud and nut come preassembled and are welded in one piece. No masking for painting needed – the important electric contact areas stay clean.



SC - KRB Ground Studs						
	Stud Dia	L1	L2	Material	Coating	Notes
SWB 533	M6	14	19.8	8.8	Tin zinc	Closed Nut
SWB 606	M6	13	18	8.8	Tin zinc	Open Nut
SWB 534	M6	15	21	8.8	Tin zinc	Closed Nut
SWB 715	M6	16	26	8.8	Tin zinc	Open Nut

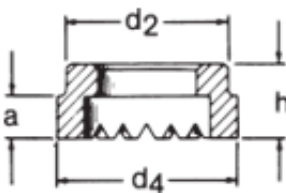
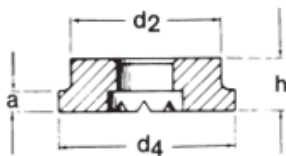
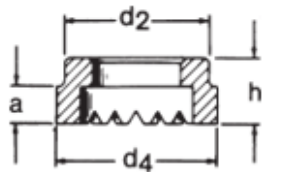
NELSON®

Ferrules

KR

Ferrules

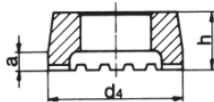
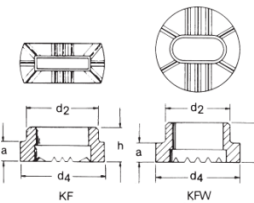
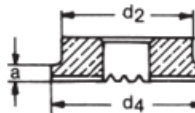
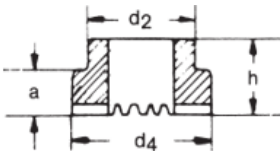
Ferrules					
Type	Ø d2 (mm)	Ø d4 (mm)	a (mm)	h (mm)	Part No.
	± 0,3	± 0,4	± 0,3	± 0,3	
PF 6	9,6	11,6	4,7	8,7	60-00-21
PF 8	11,3	13,6	3,2	6,5	60-00-03
PF 10	14,8	17,8	3,5	6,7	60-00-04
PF 12	16,5	20,0	5,2	9,2	60-00-05
PF 16	19,9	26,0	7,0	11,0	60-00-07
PF 24	30,7	38,5	13,8	18,6	60-00-30
PF-F 8	14,8	17,8	2,3	4,7	60-01-18
PF-F 10	16,5	20,1	2,5	5,5	60-01-19
PF-F 12	19,9	23,3	3,0	5,7	60-01-20
PF-F 16	26,1	29,0	4,0	9,0	60-01-65
PF-F 18	26,1	32,5	5,5	9,0	60-01-55
PF-F 20	30,7	33,8	6,0	10,0	60-01-21
UF 4	9,6	11,6	4,7	8,7	60-00-20
UF 5	9,6	11,6	4,7	8,7	60-00-21
UF 6	9,6	11,6	4,7	8,7	60-00-22
UF-F 6	12,8	16,3	6,3	11,1	60-00-35
UF 8	14,8	17,8	4,7	8,7	60-00-23
UF 10	16,5	20,0	6,3	9,9	60-00-36
UF 10	14,8	17,8	5,1	9,9	60-00-24
UF 12	19,9	22,2	5,9	10,6	60-00-25
UF 13	19,9	22,2	6,3	11,1	60-00-22
UF 14	19,9	26,1	6,3	10,6	60-00-26
UF 15	19,9	26,1	8,6	13,3	60-00-37
UF 16	26,1	26,1	8,6	13,3	60-00-27
UF 16 HSG	26,1	29,1	8,6	13,3	60-01-69
UF 19	26,1	30,8	11,9	16,7	60-00-33
UF 19 ND	30,7	33,8	10,3	15,0	60-01-64
UF 19 HSG	30,7	38,8	10,3	15,0	60-01-97
UF 20	26,1	32,8	9,5	14,2	60-00-29
UF 22	30,7	38,5	13,8	18,6	60-00-30
UF 25	35,5	40,5	16,5	20,8	60-00-34
UF-F 10	14,8	17,8	4,6	7,4	60-00-61
UF-F 12	19,9	23,3	3,0	6,5	60-00-63



KR

Ferrules

Ferrules					
Type	Ø d2 (mm)	Ø d4 (mm)	a (mm)	h (mm)	Part No.
	± 0,3	± 0,4	± 0,3	± 0,3	
UF-F 22	30,7	38,5	8,9	13,7	60-00-31
RF 6	9,6	11,6	5,9	10,0	60-00-42
RF 8	12,5	15,4	7,1	11,0	60-00-43
RF 10	14,8	17,8	7,1	11,0	60-00-44
RF 12	16,5	20,1	8,3	13,0	60-00-45
RF 16	19,9	26,1	9,9	14,7	60-00-47
RF-F 5	14,8	17,8	2,3	4,7	60-00-41
RF-F 8	14,8	17,8	2,3	4,7	60-01-54
RF-F 14	19,9	26,1	5,0	10,6	60-00-52
RF-F 20	26,1	32,5	5,5	9,0	60-01-55
KF 15 x 3	19,9	26	7	11,1	30-01-60
KF 15 x 5	19,9	26	7	11,1	60-01-32
KF 25 x 3	30,7	35,7	8	13	31-01-60
KF 25 x 5	30,7	35,7	8	13	29-01-60
KFW 13 x 6	19,9	26,1	5,5	12,0	60-01-26
KFW 17 x 8	22,5	28,0	6,0	12,0	60-01-25



K 5		18	4	9	60-00-67
K 6		18	4	9	60-00-68

IWKR 6	9,65	14,7	8,9	12,8	60-00-59
IWKR 10	12,8	16,3	9,5	12,2	60-00-65
IWKR 13	16,5	20,1	12,7	17,5	60-00-60
IWKR 16	19,9	26,2	17,4	22,2	60-00-61
AWKR 10	14,80	17,8	14,0	18,00	60-00-54
AWKR 13	19,90	26,2	15,8	20,60	60-00-55

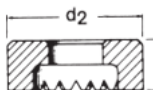
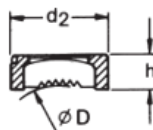
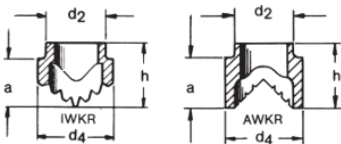
Weld special ceramic ring in or on an angle

ABKR 12-50	23,00	Ø D = 50,8	9,00	60-01-66	
ABKR 14-50	26,00	Ø D = 47,6	16,60	60-01-73	
ABKR 16-50	26,50	Ø D = 50,8	9,00	60-01-60	
ABKR 19-95	29,50	Ø D = 95		9,00	

Weld special ceramic ring around on pipe

KW 10/5,5	17,0			5,50	
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Special ceramic ring for boiler studs



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