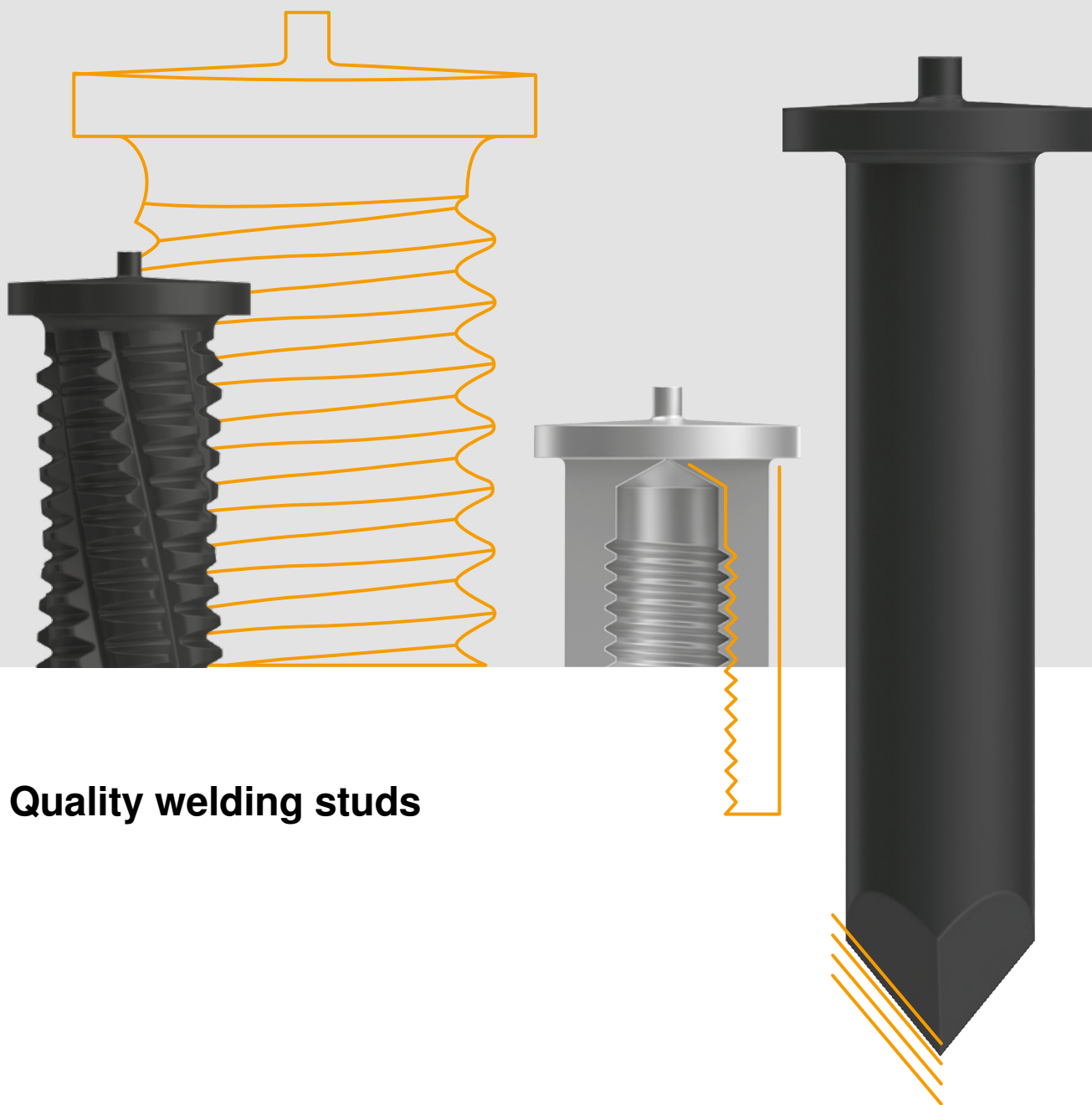




Quality welding studs



Welcome to Customer Service

Use the direct line to OBTEC Customer Service!

On the Service Hotline +49 (0)2373 89-1500, we are available every day from 7.30 a.m. to 5.00 p.m. for any questions about the OBTEC product range for electrical installations. The newly structured OBTEC Customer Service can offer you the full service:

- Competent contacts from your region
- All the information on the OBTEC product range
- Knowledgeable advice on special application topics
- Quick, direct access to all the technical data of the OBTEC products – we also want to provide the best in customer relations!

Telephone:

0 23 73 / 89-1166

Fax for requests:

0 23 73 / 89-12 38

Fax for orders:

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E-Mail: info@obtec.eu

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OBO high-quality welding stud



Product range

The range of welding studs is a reflection of what is required in practice. From all types of threaded bolt to the flat connector in any material and dimensions. As a brand manufacturer, we can offer you:

- Complete welding stud range containing over 2,000 articles
- Proprietary development and production facilities
- Ongoing product maintenance and further development
- Customer-specific special dimensions on request
- Special fastening

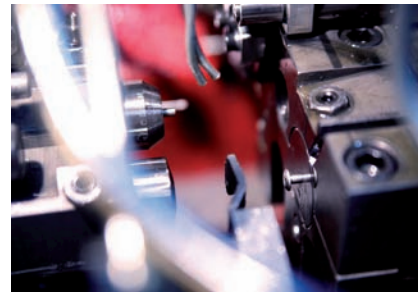
Quality

Professionals demand quality. A quality offered by all OBTEC brand products and services connected with stud welding:

- QA certification to DIN EN ISO 9001:2000
 - Tested material and manufacturing quality
- Active involvement in national and international standardisation bodies



Welding methods



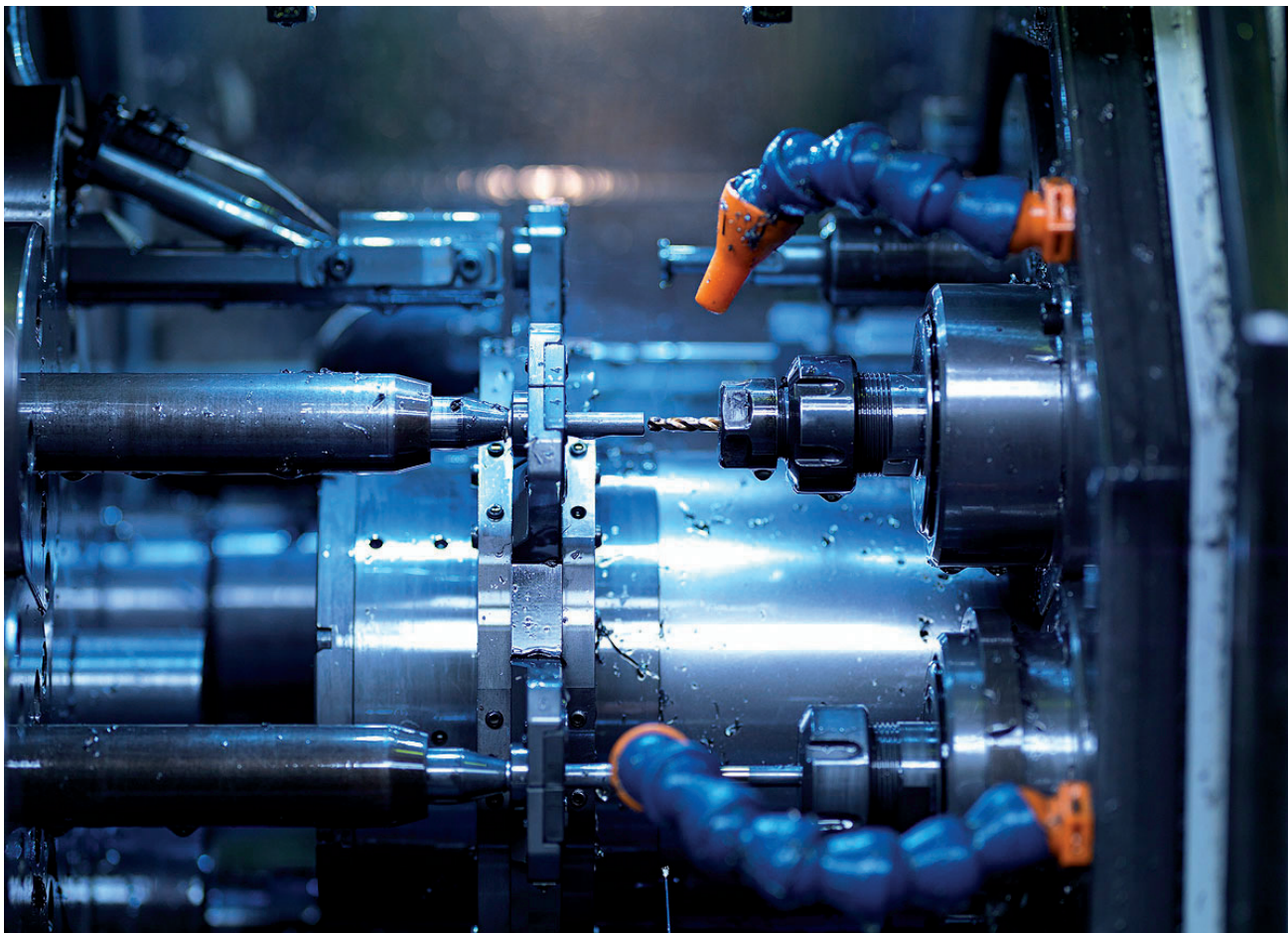
Stud welding is one of the arc stud welding methods. The different methods are described in detail in DIN EN ISO 14555. The fastening elements for stud welding are described in DIN EN ISO 13918; the only applies to rotationally symmetrical components. At OBTEC, these welding studs are created on state-of-the-art multiple die presses through cold reduction. Decades of experience and continuous development of the manufacturing process guarantee the exceptional quality of OBTEC welding studs. In addition, there is a wealth of fastening elements for stud welding, which are not standardised, for example, the flat connector, also called an earthing connector. OBTEC has been producing these punched parts at the highest level of precision for many years. Modern punching tools and presses guarantee a high standard of quality for the fastening elements, as is required for high-quality welding.

Welding methods

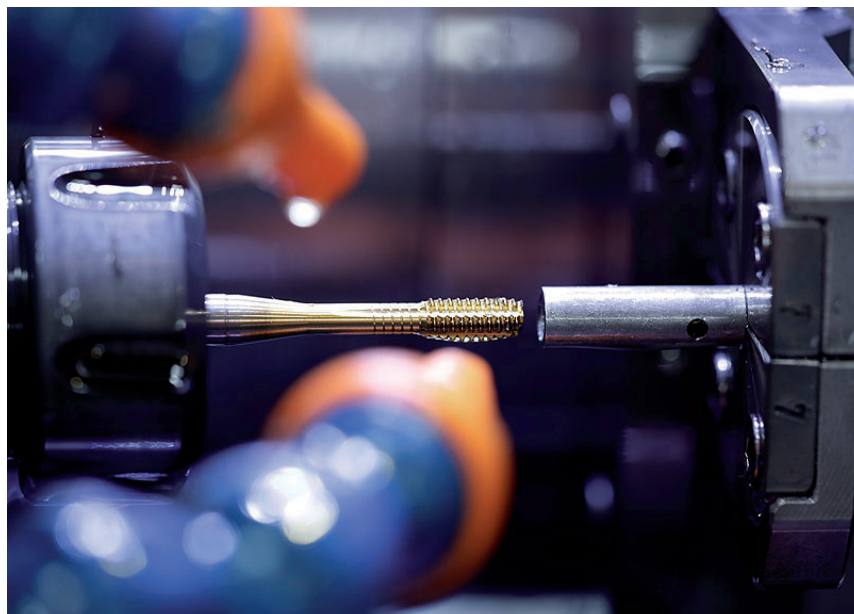
The welding methods are split into two main groups, which prevail in practice, according to the application:

1. Capacitor discharge stud welding with tip ignition. There are two variants of this method: gap welding and contact welding.
2. Stud welding with arc ignition with the subgroup short arc ignition stud welding (short cycle).

Technical informations



All the threads and stud flanges are created to DIN EN ISO 13918. The flange is a component part of the welding stud. Its diameter is greater than the external diameter of the stud. During welding, it prevents the arc from affecting the cylindrical section of the bolt, simultaneously increasing the welding area.



IT internal threaded bolt, DIN EN ISO 13918

	$d_1 \pm 0,1$	$l_1 + 0,6$	$b + 0,5$	$d_3 \pm 0,2$	$d_4 \pm 0,08$	$l_3 \pm 0,05$	h	$\alpha \pm 1^\circ \text{ max.}$
	4		5	6,5	0,75	0,80	0,8 - 1,4	3°
	5		6	7,5	0,75	0,80	0,8 - 1,4	3°
	7,1		7,5	9	0,75	0,85	0,7 - 1,4	3°

ISO nail

	$d_1 \pm 0,1$	$l_1 + 0,6$	$d_3 \pm 0,2$	$d_4 \pm 0,5$	$l_3 \pm 0,05/-0,02$	$h \pm 0,2$	$\alpha \pm 1^\circ \text{ max.}$
	2,1		3,6	0,4	0,4	0,6	3°
	2,6		4,5	0,5	0,5	0,7	3°
	3		5,0	0,7	0,7	0,7	3°

Flat connector

	$S \pm 0,03$	$H \pm 0,3$	$H_1 + 0,5$	$D + 0,2$	$B \pm 0,2$	$B_1 + 0,1$	L
	0,8	11,5	8	1,65	8	6,3	10

Short cycle threaded bolt

	d_1	$l_1 + 0,6$	$d_3 \pm 0,2$	h	$n \text{ max.}$	$\alpha \pm 1^\circ \text{ max.}$
	M 3		4	0,7 - 1,4	1,5	7°
	M 4		5	0,7 - 1,4	1,5	7°
	M 5		6	0,8 - 1,4	2,0	7°
	M 6		7	0,8 - 1,4	2,0	7°
	M 8		9	0,8 - 1,4	2,0	7°
	M 8		11	0,7 - 1,4	2,0	3°

Lacquer groove pin

	d_1	$l_1 + 0,6$	$d_3 \pm 0,2$	h	$n \text{ max.}$	$\alpha \pm 1^\circ \text{ max.}$
	M 5		6,5	0,8 - 1,4	2,0	3°
	M 6		7,5	0,8 - 1,4	2,0	3°
	M 8		9,0	0,8 - 1,4	2,0	3°

Pictogram explanation

Welding method

	Tip ignition
	Short cycle

Materials

	Aluminium
	Stainless steel, grade 305
	Brass
	Steel

Thread metric

	Metric thread, 2.5 mm
	Metric thread, 3 mm
	Metric thread, 4 mm
	Metric thread, 5 mm
	Metric thread, 6 mm
	Metric thread, 8 mm
	Metric thread, 10 mm

Diameter

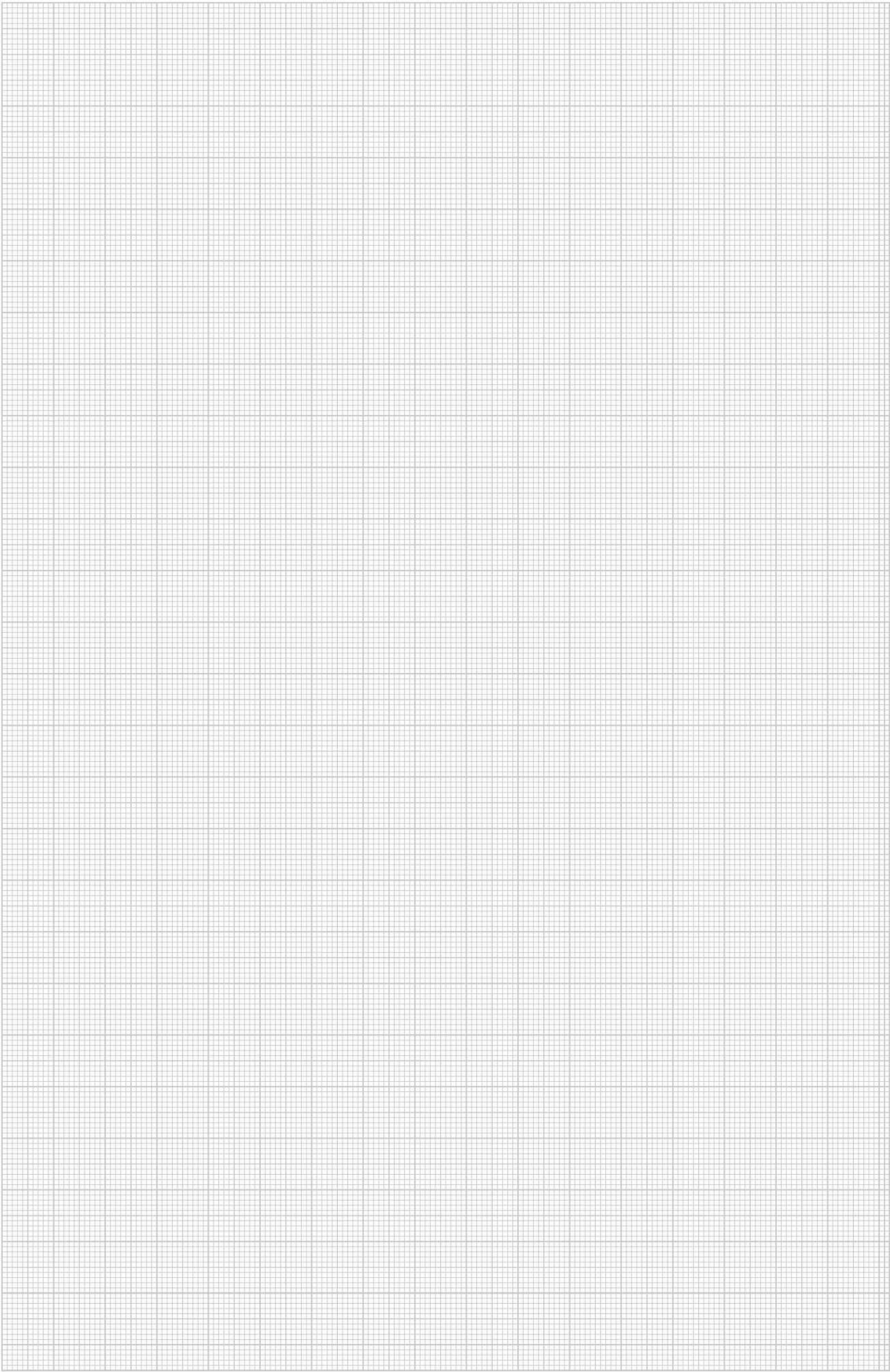
	Diameter 2.1 mm
	Diameter 2.6 mm
	Diameter 3 mm
	Diameter 4 mm
	Diameter 5 mm
	Diameter 6 mm
	Diameter 7.1 mm

Thread types

	UNC thread
	UNF thread

Materials

	Flat connector with 90° angle
	Flat connector with 135° angle





Contents

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Weldability of materials

Basic material	Stud material 4.8*	Stud material A2-50*	Stud material Cu Zn 37 (Ms 63)	Stud material Al Mg
Steel to 0.35% C	++	o	++	-
Steel to 0.60% C	-	o	-	-
Sheet steel, electrogalvanised max. 30 µ	o	o	++	-
CrNi steels austenitic	o	++	o	-
Cu Zn 37 (Ms 63) leadfree	o	o	o	-
AlMg3	-	-	-	++

++ Very suitable, o Sufficiently suitable to Ø 5 mm, - Not suitable for welding, * Suitable for welding

Approved tightening torques (N x cm)

Thread Ø	A ^{sp} (mm ²)	4.8	A2-50	CuZn37	AlMg3
M3	5.03	80	50	60	40
M4	8.78	180	110	130	90
M5	14.20	360	230	270	190
M6	20,10	610	380	450	310
M8	36.60	1,500	950	1,100	750

According to DVS 0904, related to the offset yield stress (torque). A^{sp} = Cross-section area of the thread

Limit tensile force to DIN 18800-1 (without deformation), PT, UT and IT

Material	Comment	Standard	Mechanical properties
4.8	BStuds made of non-alloy steels are suitable for welding if there is a small amount of har dening (C < 0.18%). Studs made of machining steels are not suitable for welding.	EN 20898-1	R _m > 420 N/mm ² R _{eH} > 340 N/mm ² A ₅ > 14 %
A2-50	Studs made of rustproof steels are usually suitable for welding, whilst those made of machining steels are not.	EN ISO 3506-3	R _m > 500 N/mm ² R _{eH} > 340 N/mm ² A ₁ > 0,6 d
CuZn37		ISO 426-1 ISO 1638	R _m > 370 N/mm ²
EN AW-AlMg3		EN 573-3	R _m > 180 N/mm ²

$N_{R,d} = A_{sp} \times f_u, b, k/(1,25x y_m) \cdot f_{u,b,k} = R_m$ · This data can only supply guide values,as the torque and minimum break load are dependent on the strength (thickness) and stability of the base material.

Technical data



PT threaded bolt, DIN EN ISO 13918

	d_1	$l_1 + 0,6$	$d_3 \pm 0,2$	$d_4 \pm 0,08$	$l_3 \pm 0,05$	h	$n \text{ max.}$	$\alpha \pm 1^\circ \text{ max.}$
	M 2,5		3,6	0,40	0,40	0,7 - 1,4	1,5	3°
	M 3		4,5	0,60	0,55	0,7 - 1,4	1,5	3°
	M 4		5,5	0,65	0,55	0,7 - 1,4	1,5	3°
	M 5		6,5	0,80	0,80	0,7 - 1,4	2,0	3°
	M 6		7,5	0,80	0,80	0,7 - 1,4	2,0	3°
	M 8		9,0	0,85	0,85	0,7 - 1,4	3,0	3°
	M 10		10,5	0,75	0,75	0,7 - 1,4	3,0	3°

Bolt with inched thread, flange UNC/UNF

	d_1	Length l_1
	4-40	1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1
	6-32	1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2
	8-32	1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2
	10-24	1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2
	10-32	1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2, 1-3/4, 2
	1/4-20	1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2

Special lengths on request

UT pins, DIN EN ISO 13918

	$d_1 \pm 0,1$	$l_1 + 0,6$	$d_3 \pm 0,2$	$d_4 \pm 0,08$	$l_3 \pm 0,05$	h	$n \text{ max.}$	$\alpha \pm 1^\circ \text{ max.}$
	3		4,5	0,60	0,55	0,7 - 1,4	1,5	3°
	4		5,5	0,65	0,55	0,7 - 1,4	1,5	3°
	5		6,5	0,75	0,80	0,7 - 1,4	1,5	3°
	6		7,5	0,75	0,80	0,7 - 1,4	3,0	3°

Threaded bolt, metric



Threaded bolt, steel, copper-plated St 37-3

Type	Metrical thread	Length mm	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
1 GM 2,5 x 15	M2,5	15	Steel	4,8	Copper-plated	15000	1000	0,045	4028 05 8
1 GM 2,5 x 20	M2,5	20	Steel	4,8	Copper-plated	1000	1000	0,059	4028 06 6
1 GM 2,5 x 25	M2,5	25	Steel	4,8	Copper-plated	10000	1000	0,072	4028 07 4

St Steel

Cu Copper-plated

price/1,000 pc.



Threaded bolt, steel, copper-plated St 37-3

Type	Metrical thread	Length mm	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
1 GM 3 x 6	M3	6	Steel	4,8	Copper-plated	25000	1000	0,031	4028 10 4
1 GM 3 x 8	M3	8	Steel	4,8	Copper-plated	25000	1000	0,039	4028 11 2
1 GM 3 x 10	M3	10	Steel	4,8	Copper-plated	20000	1000	0,047	4028 12 0
1 GM 3 x 12	M3	12	Steel	4,8	Copper-plated	15000	1000	0,056	4028 13 9
1 GM 3 x 15	M3	15	Steel	4,8	Copper-plated	10000	1000	0,068	4028 14 7
1 GM 3 x 16	M3	16	Steel	4,8	Copper-plated	10000	1000	0,072	4028 81 3
1 GM 3 x 20	M3	20	Steel	4,8	Copper-plated	10000	1000	0,089	4028 15 5
1 GM 3 x 25	M3	25	Steel	4,8	Copper-plated	7000	1000	0,110	4028 16 3
1 GM 3 x 30	M3	30	Steel	4,8	Copper-plated	6000	1000	0,131	4028 17 1

St Steel

Cu Copper-plated

price/1,000 pc.



Threaded bolt, steel, copper-plated St 37-3

Type	Metrical thread	Length mm	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
1 GM 4 x 6	M4	6	Steel	4,8	Copper-plated	15000	1000	0,052	4028 19 8
1 GM 4 x 8	M4	8	Steel	4,8	Copper-plated	15000	1000	0,067	4028 20 1
1 GM 4 x 10	M4	10	Steel	4,8	Copper-plated	15000	1000	0,082	4028 22 8
1 GM 4 x 12	M4	12	Steel	4,8	Copper-plated	10000	1000	0,097	4028 23 6
1 GM 4 x 15	M4	15	Steel	4,8	Copper-plated	8000	1000	0,119	4028 24 4
1 GM 4 x 16	M4	16	Steel	4,8	Copper-plated	10000	1000	0,127	4028 82 1
1 GM 4 x 20	M4	20	Steel	4,8	Copper-plated	5000	1000	0,156	4028 25 2
1 GM 4 x 25	M4	25	Steel	4,8	Copper-plated	5000	1000	0,193	4028 26 0
1 GM 4 x 30	M4	30	Steel	4,8	Copper-plated	5000	1000	0,230	4028 27 9
1 GM 4 x 35	M4	35	Steel	4,8	Copper-plated	3000	1000	0,268	4028 28 7
1 GM 4 x 40	M4	40	Steel	4,8	Copper-plated	1000	1000	0,305	4029 69 0

St Steel

Cu Copper-plated

price/1,000 pc.



Threaded bolt, steel, copper-plated St 37-3

Type	Metrical thread	Length mm	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
1 GM 5 x 8	M5	8	Steel	4,8	Copper-plated	10000	1000	0,106	4028 30 9
1 GM 5 x 10	M5	10	Steel	4,8	Copper-plated	10000	1000	0,130	4028 31 7
1 GM 5 x 12	M5	12	Steel	4,8	Copper-plated	7000	1000	0,153	4028 32 5
1 GM 5 x 15	M5	15	Steel	4,8	Copper-plated	5000	1000	0,189	4028 33 3
1 GM 5 x 16	M5	16	Steel	4,8	Copper-plated	5000	1000	0,201	4028 84 8
1 GM 5 x 20	M5	20	Steel	4,8	Copper-plated	5000	1000	0,248	4028 34 1
1 GM 5 x 25	M5	25	Steel	4,8	Copper-plated	3000	1000	0,307	4028 36 8
1 GM 5 x 30	M5	30	Steel	4,8	Copper-plated	2000	1000	0,366	4028 37 6
1 GM 5 x 35	M5	35	Steel	4,8	Copper-plated	1000	1000	0,425	4028 38 4
1 GM 5 x 40	M5	40	Steel	4,8	Copper-plated	1000	1000	0,484	4028 39 2

St Steel

Cu Copper-plated

price/1,000 pc.



Threaded bolt, steel, copper-plated St 37-3

Type	Metrical thread	Length mm	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
1 GM 6 x 8	M6	8	Steel	4,8	Copper-plated	8000	1000	0,153	4028 40 6
1 GM 6 x 10	M6	10	Steel	4,8	Copper-plated	5000	1000	0,186	4028 41 4
1 GM 6 x 12	M6	12	Steel	4,8	Copper-plated	5000	1000	0,220	4028 42 2
1 GM 6 x 15	M6	15	Steel	4,8	Copper-plated	4000	1000	0,271	4028 43 0
1 GM 6 x 16	M6	16	Steel	4,8	Copper-plated	4000	1000	0,287	4028 85 6
1 GM 6 x 20	M6	20	Steel	4,8	Copper-plated	3000	1000	0,355	4028 44 9
1 GM 6 x 25	M6	25	Steel	4,8	Copper-plated	2000	1000	0,439	4028 45 7
1 GM 6 x 30	M6	30	Steel	4,8	Copper-plated	1000	1000	0,523	4028 46 5
1 GM 6 x 35	M6	35	Steel	4,8	Copper-plated	1000	1000	0,608	4028 47 3
1 GM 6 x 40	M6	40	Steel	4,8	Copper-plated	1000	1000	0,692	4028 48 1
1 GM 6 x 45	M6	45	Steel	4,8	Copper-plated	1000	1000	0,776	4028 50 3
1 GM 6 x 50	M6	50	Steel	4,8	Copper-plated	1000	1000	0,861	4028 51 1
1 GM 6 x 60	M6	60	Steel	4,8	Copper-plated	1000	1000	1,029	4028 54 6

St Steel

Cu Copper-plated

price/1,000 pc.

Threaded bolt, metric

Threaded bolt, steel, copper-plated St 37-3

Type	Metrical thread	Length mm	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
1 GM 8 x 10	M8	10	Steel	4,8	Copper-plated	4000	1000	0,326	4028 60 0
1 GM 8 x 12	M8	12	Steel	4,8	Copper-plated	3000	1000	0,387	4028 93 7
1 GM 8 x 15	M8	15	Steel	4,8	Copper-plated	2000	1000	0,479	4028 61 9
1 GM 8 x 16	M8	16	Steel	4,8	Copper-plated	2000	1000	0,509	4028 87 2
1 GM 8 x 20	M8	20	Steel	4,8	Copper-plated	1000	1000	0,632	4028 62 7
1 GM 8 x 25	M8	25	Steel	4,8	Copper-plated	1000	1000	0,785	4028 63 5
1 GM 8 x 30	M8	30	Steel	4,8	Copper-plated	1000	1000	0,938	4028 64 3
1 GM 8 x 35	M8	35	Steel	4,8	Copper-plated	1000	1000	1,091	4028 65 1
1 GM 8 x 40	M8	40	Steel	4,8	Copper-plated	1000	1000	1,244	4028 67 8
1 GM 8 x 45	M8	45	Steel	4,8	Copper-plated	1000	1000	1,398	4028 68 6
1 GM 8 x 50	M8	50	Steel	4,8	Copper-plated	1000	1000	1,551	4028 69 4

St Steel

Cu Copper-plated

price/1,000 pc.



Threaded bolt, steel, copper-plated St 37-3

Type	Metrical thread	Length mm	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
1 GM 10 x 20	M10	20	Steel	4,8	Copper-plated	500	500	0,995	4027 52 3
1 GM 10 x 25	M10	25	Steel	4,8	Copper-plated	500	500	1,238	4027 53 1
1 GM 10 x 30	M10	30	Steel	4,8	Copper-plated	500	500	1,481	4027 55 8
1 GM 10 x 35	M10	35	Steel	4,8	Copper-plated	500	500	1,724	4027 56 6
1 GM 10 x 40	M10	40	Steel	4,8	Copper-plated	500	500	1,967	4027 57 4
1 GM 10 x 50	M10	50	Steel	4,8	Copper-plated	500	500	2,515	4027 59 0

St Steel

Cu Copper-plated

price/1,000 pc.



PT threaded bolt for tip ignition



Threaded bolt, metric



Threaded bolt, metric, Stainless steel, grade 305

Type	Metrical thread	Length mm	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
2 GM 2,5 x 8	M2,5	8	V2A	1,4303	Pickled	25000	1000	0,025	4030 02 8
2 GM 2,5 x 12	M2,5	12	V2A	1,4303	Pickled	20000	1000	0,036	4030 04 4
2 GM 2,5 x 15	M2,5	15	V2A	1,4303	Pickled	15000	1000	0,045	4030 05 2
2 GM 2,5 x 25	M2,5	25	V2A	1,4303	Pickled	10000	1000	0,072	4030 07 9

V2A Stainless steel, grade 305 Pickled price/1,000 pc.



Threaded bolt, metric, Stainless steel, grade 305

Type	Metrical thread	Length mm	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
2 GM 3 x 6	M3	6	V2A	1,4303	Pickled	25000	1000	0,031	4030 10 9
2 GM 3 x 8	M3	8	V2A	1,4303	Pickled	25000	1000	0,039	4030 11 7
2 GM 3 x 10	M3	10	V2A	1,4303	Pickled	20000	1000	0,047	4030 12 5
2 GM 3 x 12	M3	12	V2A	1,4303	Pickled	15000	1000	0,056	4030 13 3
2 GM 3 x 15	M3	15	V2A	1,4303	Pickled	10000	1000	0,068	4030 14 1
2 GM 3 x 16	M3	16	V2A	1,4303	Pickled	10000	1000	0,072	4030 82 6
2 GM 3 x 20	M3	20	V2A	1,4303	Pickled	10000	1000	0,089	4030 16 8
2 GM 3 x 25	M3	25	V2A	1,4303	Pickled	7000	1000	0,110	4030 17 6
2 GM 3 x 30	M3	30	V2A	1,4303	Pickled	6000	1000	0,131	4030 08 7
2 GM 3 x 40	M3	40	V2A	1,4303	Pickled	5000	1000	0,165	4031 31 4

V2A Stainless steel, grade 305 Pickled price/1,000 pc.



Threaded bolt, metric, Stainless steel, grade 305

Type	Metrical thread	Length mm	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
2 GM 4 x 6	M4	6	V2A	1,4303	Pickled	15000	1000	0,052	4030 28 1
2 GM 4 x 8	M4	8	V2A	1,4303	Pickled	15000	1000	0,067	4030 20 6
2 GM 4 x 10	M4	10	V2A	1,4303	Pickled	15000	1000	0,082	4030 21 4
2 GM 4 x 12	M4	12	V2A	1,4303	Pickled	10000	1000	0,097	4030 22 2
2 GM 4 x 15	M4	15	V2A	1,4303	Pickled	8000	1000	0,119	4030 23 0
2 GM 4 x 16	M4	16	V2A	1,4303	Pickled	10000	1000	0,127	4030 83 4
2 GM 4 x 20	M4	20	V2A	1,4303	Pickled	5000	1000	0,156	4030 24 9
2 GM 4 x 25	M4	25	V2A	1,4303	Pickled	5000	1000	0,193	4030 25 7
2 GM 4 x 30	M4	30	V2A	1,4303	Pickled	5000	1000	0,230	4030 26 5
2 GM 4 x 35	M4	35	V2A	1,4303	Pickled	3000	1000	0,268	4030 27 3
2 GM 4 x 40	M4	40	V2A	1,4303	Pickled	1000	1000	0,305	4030 18 4

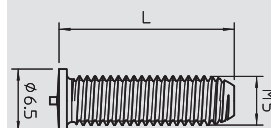
V2A Stainless steel, grade 305 Pickled price/1,000 pc.



Threaded bolt, metric, Stainless steel, grade 305

Type	Metrical thread	Length mm	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
2 GM 5 x 8	M5	8	V2A	1,4303	Pickled	10000	1000	0,106	4030 30 3
2 GM 5 x 10	M5	10	V2A	1,4303	Pickled	10000	1000	0,130	4030 31 1
2 GM 5 x 12	M5	12	V2A	1,4303	Pickled	7000	1000	0,153	4030 33 8
2 GM 5 x 15	M5	15	V2A	1,4303	Pickled	5000	1000	0,189	4030 34 6
2 GM 5 x 16	M5	16	V2A	1,4303	Pickled	5000	1000	0,201	4030 84 2
2 GM 5 x 20	M5	20	V2A	1,4303	Pickled	5000	1000	0,248	4030 35 4
2 GM 5 x 25	M5	25	V2A	1,4303	Pickled	3000	1000	0,307	4030 36 2
2 GM 5 x 30	M5	30	V2A	1,4303	Pickled	2000	1000	0,366	4030 37 0
2 GM 5 x 35	M5	35	V2A	1,4303	Pickled	1000	1000	0,425	4030 38 9
2 GM 5 x 40	M5	40	V2A	1,4303	Pickled	1000	1000	0,484	4030 39 7
2 GM 5 x 45	M5	45	V2A	1,4303	Pickled	1000	1000	0,543	4031 43 1

V2A Stainless steel, grade 305 Pickled price/1,000 pc.



Threaded bolt, metric

Threaded bolt, metric, Stainless steel, grade 305

Type	Metrical thread	Length mm	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
2 GM 6 x 8	M6	8	V2A	1,4303	Pickled	8000	1000	0,153	4030 40 0
2 GM 6 x 10	M6	10	V2A	1,4303	Pickled	5000	1000	0,186	4030 41 9
2 GM 6 x 12	M6	12	V2A	1,4303	Pickled	5000	1000	0,220	4030 42 7
2 GM 6 x 14	M6	14	V2A	1,4303	Pickled	4000	1000	0,254	4030 84 8
2 GM 6 x 15	M6	15	V2A	1,4303	Pickled	4000	1000	0,271	4030 43 5
2 GM 6 x 16	M6	16	V2A	1,4303	Pickled	4000	1000	0,287	4030 85 0
2 GM 6 x 18	M6	18	V2A	1,4303	Pickled	4000	1000	0,321	4030 44 1
2 GM 6 x 20	M6	20	V2A	1,4303	Pickled	3000	1000	0,355	4030 44 3
2 GM 6 x 25	M6	25	V2A	1,4303	Pickled	2000	1000	0,439	4030 45 1
2 GM 6 x 30	M6	30	V2A	1,4303	Pickled	1000	1000	0,523	4030 47 8
2 GM 6 x 35	M6	35	V2A	1,4303	Pickled	1000	1000	0,608	4030 48 6
2 GM 6 x 40	M6	40	V2A	1,4303	Pickled	1000	1000	0,692	4030 49 4
2 GM 6 x 45	M6	45	V2A	1,4303	Pickled	1000	1000	0,776	4030 50 8
2 GM 6 x 50	M6	50	V2A	1,4303	Pickled	1000	1000	0,861	4030 51 6

V2A Stainless steel, grade 305 Pickled price/1,000 pc.



PT threaded bolt for tip ignition



Threaded bolt, metric, Stainless steel, grade 305

Type	Metrical thread	Length mm	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
2 GM 8 x 10	M8	10	V2A	1,4303	Pickled	4000	1000	0,326	4030 60 5
2 GM 8 x 12	M8	12	V2A	1,4303	Pickled	3000	1000	0,387	4030 90 7
2 GM 8 x 15	M8	15	V2A	1,4303	Pickled	2000	1000	0,479	4030 61 3
2 GM 8 x 16	M8	16	V2A	1,4303	Pickled	2000	1000	0,509	4030 86 9
2 GM 8 x 20	M8	20	V2A	1,4303	Pickled	1000	1000	0,632	4030 62 1
2 GM 8 x 24	M8	24	V2A	1,4303	Pickled	1000	1000	0,754	4030 64 2
2 GM 8 x 25	M8	25	V2A	1,4303	Pickled	1000	1000	0,785	4030 64 8
2 GM 8 x 30	M8	30	V2A	1,4303	Pickled	1000	1000	0,938	4030 65 6
2 GM 8 x 35	M8	35	V2A	1,4303	Pickled	1000	1000	1,091	4030 66 4
2 GM 8 x 40	M8	40	V2A	1,4303	Pickled	1000	1000	1,244	4030 67 2
2 GM 8 x 45	M8	45	V2A	1,4303	Pickled	1000	1000	1,398	4030 68 0
2 GM 8 x 50	M8	50	V2A	1,4303	Pickled	1000	1000	1,551	4030 69 9

V2A Stainless steel, grade 305 Pickled price/1,000 pc.



Threaded bolt, metric, Stainless steel, grade 305

Type	Metrical thread	Length mm	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
2 GM 10 x 12	M10	12	V2A	1,4303	Pickled	2000	500	0,606	4031 25 3
2 GM 10 x 16	M10	16	V2A	1,4303	Pickled	1000	500	0,801	4031 26 1
2 GM 10 x 20	M10	20	V2A	1,4303	Pickled	500	500	0,995	4031 28 8
2 GM 10 x 25	M10	25	V2A	1,4303	Pickled	500	500	1,238	4031 29 6
2 GM 10 x 30	M10	30	V2A	1,4303	Pickled	500	500	1,481	4031 32 6
2 GM 10 x 35	M10	35	V2A	1,4303	Pickled	500	500	1,724	4031 33 0
2 GM 10 x 40	M10	40	V2A	1,4303	Pickled	500	500	1,967	4031 33 4
2 GM 10 x 45	M10	45	V2A	1,4303	Pickled	500	500	2,210	4031 33 8
2 GM 10 x 50	M10	50	V2A	1,4303	Pickled	500	500	2,453	4031 94 6

V2A Stainless steel, grade 305 Pickled price/1,000 pc.



Threaded bolt, metric



M3



Threaded bolt, metric, Aluminium, AlMg 3

Type	Metrical thread	Length mm	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
4 GM 3 x 6	M3	6	Aluminium	AlMg 3	—	25000	1000	0,011	4034 10 4
4 GM 3 x 8	M3	8	Aluminium	AlMg 3	—	25000	1000	0,013	4034 11 2
4 GM 3 x 10	M3	10	Aluminium	AlMg 3	—	20000	1000	0,016	4034 12 0
4 GM 3 x 12	M3	12	Aluminium	AlMg 3	—	15000	1000	0,019	4034 13 9
4 GM 3 x 15	M3	15	Aluminium	AlMg 3	—	10000	1000	0,023	4034 14 7
4 GM 3 x 16	M3	16	Aluminium	AlMg 3	—	10000	1000	0,025	4034 81 3
4 GM 3 x 20	M3	20	Aluminium	AlMg 3	—	10000	1000	0,031	4034 15 5
4 GM 3 x 25	M3	25	Aluminium	AlMg 3	—	7000	1000	0,038	4034 16 3
4 GM 3 x 30	M3	30	Aluminium	AlMg 3	—	6000	1000	0,045	4034 17 1

Al Aluminium

price/1,000 pc.



M4



Threaded bolt, metric, Aluminium, AlMg 3

Type	Metrical thread	Length mm	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
4 GM 4 x 6	M4	6	Aluminium	AlMg 3	—	15000	1000	0,018	4034 29 5
4 GM 4 x 8	M4	8	Aluminium	AlMg 3	—	15000	1000	0,023	4034 20 1
4 GM 4 x 10	M4	10	Aluminium	AlMg 3	—	15000	1000	0,028	4034 22 8
4 GM 4 x 12	M4	12	Aluminium	AlMg 3	—	10000	1000	0,033	4034 23 6
4 GM 4 x 15	M4	15	Aluminium	AlMg 3	—	8000	1000	0,041	4034 24 4
4 GM 4 x 16	M4	16	Aluminium	AlMg 3	—	10000	1000	0,043	4034 82 1
4 GM 4 x 20	M4	20	Aluminium	AlMg 3	—	5000	1000	0,053	4034 25 2
4 GM 4 x 25	M4	25	Aluminium	AlMg 3	—	5000	1000	0,066	4034 26 0
4 GM 4 x 30	M4	30	Aluminium	AlMg 3	—	5000	1000	0,078	4034 27 9
4 GM 4 x 35	M4	35	Aluminium	AlMg 3	—	3000	1000	0,091	4034 28 7
4 GM 4 x 40	M4	40	Aluminium	AlMg 3	—	1000	1000	0,105	4034 29 1
4 GM 4 x 50	M4	50	Aluminium	AlMg 3	—	1000	1000	0,130	4035 40 2

Al Aluminium

price/1,000 pc.



M5



Threaded bolt, metric, Aluminium, AlMg 3

Type	Metrical thread	Length mm	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
4 GM 5 x 8	M5	8	Aluminium	AlMg 3	—	10000	1000	0,036	4034 30 9
4 GM 5 x 10	M5	10	Aluminium	AlMg 3	—	10000	1000	0,045	4034 31 7
4 GM 5 x 12	M5	12	Aluminium	AlMg 3	—	7000	1000	0,053	4034 32 5
4 GM 5 x 15	M5	15	Aluminium	AlMg 3	—	5000	1000	0,065	4034 33 3
4 GM 5 x 16	M5	16	Aluminium	AlMg 3	—	5000	1000	0,069	4034 84 8
4 GM 5 x 20	M5	20	Aluminium	AlMg 3	—	5000	1000	0,085	4034 34 1
4 GM 5 x 25	M5	25	Aluminium	AlMg 3	—	3000	1000	0,106	4034 36 8
4 GM 5 x 30	M5	30	Aluminium	AlMg 3	—	2000	1000	0,126	4034 37 6
4 GM 5 x 35	M5	35	Aluminium	AlMg 3	—	1000	1000	0,142	4034 38 4
4 GM 5 x 50	M5	50	Aluminium	AlMg 3	—	1000	1000	0,207	4035 44 5

Al Aluminium

price/1,000 pc.



M6



Threaded bolt, metric, Aluminium, AlMg 3

Type	Metrical thread	Length mm	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
4 GM 6 x 10	M6	10	Aluminium	AlMg 3	—	5000	1000	0,064	4034 41 4
4 GM 6 x 12	M6	12	Aluminium	AlMg 3	—	5000	1000	0,075	4034 42 2
4 GM 6 x 15	M6	15	Aluminium	AlMg 3	—	4000	1000	0,092	4034 43 0
4 GM 6 x 16	M6	16	Aluminium	AlMg 3	—	4000	1000	0,098	4034 85 6
4 GM 6 x 20	M6	20	Aluminium	AlMg 3	—	3000	1000	0,122	4034 44 9
4 GM 6 x 25	M6	25	Aluminium	AlMg 3	—	2000	1000	0,150	4034 45 7
4 GM 6 x 30	M6	30	Aluminium	AlMg 3	—	1000	1000	0,179	4034 46 5
4 GM 6 x 35	M6	35	Aluminium	AlMg 3	—	1000	1000	0,208	4034 47 3
4 GM 6 x 40	M6	40	Aluminium	AlMg 3	—	1000	1000	0,236	4034 48 1
4 GM 6 x 50	M6	50	Aluminium	AlMg 3	—	1000	1000	0,294	4034 51 1

Al Aluminium

price/1,000 pc.

Threaded bolt, metric

Threaded bolt, metric, Aluminium, AlMg 3

Type	Metrical thread	Length mm	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
4 GM 8 x 10	M8	10	Aluminium	AlMg 3	—	4000	1000	0,112	4034 60 0
4 GM 8 x 15	M8	15	Aluminium	AlMg 3	—	2000	1000	0,165	4034 61 9
4 GM 8 x 16	M8	16	Aluminium	AlMg 3	—	2000	1000	0,175	4034 86 4
4 GM 8 x 20	M8	20	Aluminium	AlMg 3	—	1000	1000	0,217	4034 62 7
4 GM 8 x 25	M8	25	Aluminium	AlMg 3	—	1000	1000	0,270	4034 63 5
4 GM 8 x 30	M8	30	Aluminium	AlMg 3	—	1000	1000	0,323	4034 64 3
4 GM 8 x 40	M8	40	Aluminium	AlMg 3	—	1000	1000	0,428	4034 67 8
4 GM 8 x 50	M8	50	Aluminium	AlMg 3	—	1000	1000	0,533	4034 69 4
Al Aluminium								price/1,000 pc.	



PT threaded bolt for tip ignition





Threaded bolt, metric



M3



Threaded bolt, metric, brass, CuZn 37

Type	Metrical thread	Length mm	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
6 GM 3 x 8	M3	8	CuZn37	—	25000	1000	0,042	4038 12 6
6 GM 3 x 10	M3	10	CuZn37	—	20000	1000	0,051	4038 13 4
6 GM 3 x 12	M3	12	CuZn37	—	15000	1000	0,060	4038 14 2
6 GM 3 x 20	M3	20	CuZn37	—	10000	1000	0,097	4038 16 9
6 GM 3 x 25	M3	25	CuZn37	—	7000	1000	0,119	4038 17 7

CuZn Brass

price/1,000 pc.



M4



Threaded bolt, metric, brass, CuZn 37

Type	Metrical thread	Length mm	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
6 GM 4 x 10	M4	10	CuZn37	—	15000	1000	0,089	4038 21 5
6 GM 4 x 12	M4	12	CuZn37	—	10000	1000	0,105	4038 22 3
6 GM 4 x 16	M4	16	CuZn37	—	10000	1000	0,137	4038 82 7
6 GM 4 x 25	M4	25	CuZn37	—	5000	1000	0,209	4038 26 6
6 GM 4 x 50	M4	50	CuZn37	—	1000	1000	0,410	4038 40 8

CuZn Brass

price/1,000 pc.



M5



Threaded bolt, metric, brass, CuZn 37

Type	Metrical thread	Length mm	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
6 GM 5 x 8	M5	8	CuZn37	—	10000	1000	0,115	4038 30 4
6 GM 5 x 10	M5	10	CuZn37	—	10000	1000	0,140	4038 31 2
6 GM 5 x 15	M5	15	CuZn37	—	5000	1000	0,204	4038 33 9
6 GM 5 x 16	M5	16	CuZn37	—	5000	1000	0,217	4038 83 5
6 GM 5 x 20	M5	20	CuZn37	—	5000	1000	0,268	4038 34 7

CuZn Brass

price/1,000 pc.



M6



Threaded bolt, metric, brass, CuZn 37

Type	Metrical thread	Length mm	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
6 GM 6 x 10	M6	10	CuZn37	—	5000	1000	0,202	4038 42 8
6 GM 6 x 15	M6	15	CuZn37	—	4000	1000	0,292	4038 44 4
6 GM 6 x 20	M6	20	CuZn37	—	3000	1000	0,384	4038 45 2
6 GM 6 x 25	M6	25	CuZn37	—	2000	1000	0,476	4038 46 0
6 GM 6 x 30	M6	30	CuZn37	—	1000	1000	0,567	4038 47 9
6 GM 6 x 40	M6	40	CuZn37	—	1000	1000	0,749	4038 49 5
6 GM 6 x 50	M6	50	CuZn37	—	1000	1000	0,932	4038 51 7

CuZn Brass

price/1,000 pc.



M8



Threaded bolt, metric, brass, CuZn 37

Type	Metrical thread	Length mm	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
6 GM 8 x 14	M8	14	CuZn37	—	2000	1000	0,485	4038 61 2
6 GM 8 x 20	M8	20	CuZn37	—	1000	1000	0,684	4038 62 2

CuZn Brass

price/1,000 pc.

Coarse threaded bolt

Coarse threaded bolt, steel, copper plated St 37-3

Type	Diameter	Length	Quality	Surface	Shipping box	Pack	Weight	Item no.
	mm	mm			Units	Units	kg/100 pc.	
1 T5 x 14,2	5	14,2	4,8	Copper-plated	5000	1000	0,171	4029 42 9
1 T5 x 14,2	5	14,2	4,8	Copper-plated	6000	1000	0,164	4029 68 2
1 T5 x 16,5	5	16,5	4,8	Copper-plated	5000	1000	0,180	4029 45 3

St Steel

Cu Copper-plated

price/1,000 pc.



Coarse threaded bolt, steel, copper plated St 37-3

Type	Diameter	Length	Quality	Surface	Shipping box	Pack	Weight	Item no.
	mm	mm			Units	Units	kg/100 pc.	
1 T6 x 30	6	30	4,8	Copper-plated	1000	1000	0,447	4029 48 8

St Steel

Cu Copper-plated

price/1,000 pc.



Coarse threaded bolt, Stainless steel, grade 305

Type	Metrical thread	Length	Quality	Surface	Shipping box	Pack	Weight	Item no.
		mm			Units	Units	kg/100 pc.	
2 T 5 x 25	—	25	1,4303	Pickled	4000	1000	0,213	4029 51 0

V2A Stainless steel, grade 305

Pickled

price/1,000 pc.



PT threaded bolt for tip ignition



Imperial threaded bolt with flange



Bolt with inched thread with flange, Steel, copper-plated St 37-3

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
4 - 40 x 5/8	4 - 40	5/8	Steel	4,8	Copper-plated	1000	1000	0,065	4082 64 8
4 - 40 x 3/4	4 - 40	3/4	Steel	4,8	Copper-plated	10000	1000	0,072	4082 65 6
4 - 40 x 7/8	4 - 40	7/8	Steel	4,8	Copper-plated	1000	1000	0,087	4082 66 4
4 - 40 x 1	4 - 40	1	Steel	4,8	Copper-plated	10000	1000	0,094	4082 67 2

St Steel

Cu Copper-plated

price/1,000 pc.



Bolt with inched thread with flange, Steel, copper-plated St 37-3

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
6 - 32 x 3/8	6 - 32	3/8	Steel	4,8	Copper-plated	20000	1000	0,056	4083 00 8
6 - 32 x 1/2	6 - 32	1/2	Steel	4,8	Copper-plated	15000	1000	0,073	4083 01 6

St Steel

Cu Copper-plated

price/1,000 pc.



Bolt with inched thread with flange, Steel, copper-plated St 37-3

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
8 - 32 x 1/4	8 - 32	1/4	Steel	4,8	Copper-plated	20000	1000	0,057	4083 09 1
8 - 32 x 1/2	8 - 32	1/2	Steel	4,8	Copper-plated	10000	1000	0,107	4083 11 3
8 - 32 x 5/8	8 - 32	5/8	Steel	4,8	Copper-plated	8000	1000	0,132	4083 12 1
8 - 32 x 1	8 - 32	1	Steel	4,8	Copper-plated	5000	1000	0,206	4083 16 4
8 - 32 x 1 3/4	8 - 32	1 3/4	Steel	4,8	Copper-plated	1000	1000	0,359	4084 52 7
8 - 32 x 2	8 - 32	2	Steel	4,8	Copper-plated	1000	1000	0,409	4084 53 5

St Steel

Cu Copper-plated

price/1,000 pc.



Bolt with inched thread with flange, Steel, copper-plated St 37-3

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
10 - 24 x 3/8	10 - 24	3/8	Steel	4,8	Copper-plated	10000	1000	0,109	4083 20 2
10 - 24 x 1/2	10 - 24	1/2	Steel	4,8	Copper-plated	8000	1000	0,142	4083 21 0
10 - 24 x 5/8	10 - 24	5/8	Steel	4,8	Copper-plated	6000	1000	0,175	4083 22 9
10 - 24 x 3/4	10 - 24	3/4	Steel	4,8	Copper-plated	5000	1000	0,205	4083 24 5
10 - 24 x 7/8	10 - 24	7/8	Steel	4,8	Copper-plated	4000	1000	0,237	4083 23 7
10 - 24 x 2	10 - 24	2	Steel	4,8	Copper-plated	1000	1000	0,529	4084 58 6

St Steel

Cu Copper-plated

price/1,000 pc.



Bolt with inched thread with flange, Steel, copper-plated St 37-3

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
10 - 32 x 1/4	10 - 32	1/4	Steel	4,8	Copper-plated	15000	1000	0,082	4085 00 0
10 - 32 x 1/2	10 - 32	1/2	Steel	4,8	Copper-plated	8000	1000	0,151	4085 02 7
10 - 32 x 5/8	10 - 32	5/8	Steel	4,8	Copper-plated	6000	1000	0,187	4085 03 5
10 - 32 x 3/4	10 - 32	3/4	Steel	4,8	Copper-plated	5000	1000	0,221	4085 04 3
10 - 32 x 1 1/4	10 - 32	1 1/4	Steel	4,8	Copper-plated	1000	1000	0,381	4085 08 6
10 - 32 x 2	10 - 32	2	Steel	4,8	Copper-plated	1000	1000	0,590	4085 11 6

St Steel

Cu Copper-plated

price/1,000 pc.



Bolt with inched thread with flange, Steel, copper-plated St 37-3

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
1/4 - 20 x 5/8	1/4 - 20	5/8	Steel	4,8	Copper-plated	4000	1000	0,310	4083 34 2
1/4 - 20 x 3/4	1/4 - 20	3/4	Steel	4,8	Copper-plated	3000	1000	0,366	4083 35 0
1/4 - 20 x 7/8	1/4 - 20	7/8	Steel	4,8	Copper-plated	3000	1000	0,425	4083 36 9
1/4 - 20 x 1	1/4 - 20	1	Steel	4,8	Copper-plated	2000	1000	0,483	4083 37 7
1/4 - 20 x 1 1/4	1/4 - 20	1 1/4	Steel	4,8	Copper-plated	1000	1000	0,597	4083 38 5
1/4 - 20 x 1 1/2	1/4 - 20	1 1/2	Steel	4,8	Copper-plated	1000	1000	0,723	4083 39 3
1/4 - 20 x 2	1/4 - 20	2	Steel	4,8	Copper-plated	1000	1000	0,944	4083 42 3

St Steel

Cu Copper-plated

price/1,000 pc.

Imperial threaded bolt with flange

Bolt with inched thread with flange, Steel, copper-plated St 37-3

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
5/16 - 18 x 1	5/16 - 18	1	Steel	4,8	Copper-plated	1000	1000	0,762	4085 26 4
St Steel			Cu Copper-plated					price/1,000 pc.	



PT threaded bolt for tip ignition



Imperial threaded bolt with flange



Bolt with inched thread with flange, Stainless steel, grade 305

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
4 - 40 x 5/8	4 - 40	5/8	V2A	1,4303	Pickled	1000	1000	0,065	4083 74 5
4 - 40 x 7/8	4 - 40	7/8	V2A	1,4303	Pickled	1000	1000	0,087	4083 76 1
4 - 40 x 1	4 - 40	1	V2A	1,4303	Pickled	10000	1000	0,094	4083 78 8

V2A Stainless steel, grade 305 Pickled price/1,000 pc.



Bolt with inched thread with flange, Stainless steel, grade 305

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
6 - 32 x 7/8	6 - 32	7/8	V2A	1,4303	Pickled	1000	1000	0,121	4083 53 9
6 - 32 x 1 1/4	6 - 32	1 1/4	V2A	1,4303	Pickled	5000	1000	0,176	4083 56 3
6 - 32 x 1 1/2	6 - 32	1 1/2	V2A	1,4303	Pickled	5000	1000	0,210	4083 57 1

V2A Stainless steel, grade 305 Pickled price/1,000 pc.



Bolt with inched thread with flange, Stainless steel, grade 305

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
8 - 32 x 1/4	8 - 32	1/4	V2A	1,4303	Pickled	20000	1000	0,057	4083 59 8
8 - 32 x 5/8	8 - 32	5/8	V2A	1,4303	Pickled	8000	1000	0,132	4083 63 6
8 - 32 x 3/4	8 - 32	3/4	V2A	1,4303	Pickled	6000	1000	0,156	4083 65 2
8 - 32 x 7/8	8 - 32	7/8	V2A	1,4303	Pickled	5000	1000	0,181	4083 64 4

V2A Stainless steel, grade 305 Pickled price/1,000 pc.



Bolt with inched thread with flange, Stainless steel, grade 305

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
10 - 24 x 1/2	10 - 24	1/2	V2A	1,4303	Pickled	8000	1000	0,142	4083 71 7
10 - 24 x 5/8	10 - 24	5/8	V2A	1,4303	Pickled	6000	1000	0,175	4083 72 5
10 - 24 x 3/4	10 - 24	3/4	V2A	1,4303	Pickled	5000	1000	0,207	4083 74 1
10 - 24 x 1	10 - 24	1	V2A	1,4303	Pickled	4000	1000	0,272	4083 76 8
10 - 24 x 1 1/2	10 - 24	1 1/2	V2A	1,4303	Pickled	1000	1000	0,402	4083 78 4

V2A Stainless steel, grade 305 Pickled price/1,000 pc.



Bolt with inched thread with flange, Stainless steel, grade 305

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
10 - 32 x 1/4	—	1/4	V2A	1,4303	Pickled	15000	1000	0,082	4086 00 7
10 - 32 x 3/8	—	3/8	V2A	1,4303	Pickled	10000	1000	0,116	4086 01 5
10 - 32 x 1/2	—	1/2	V2A	1,4303	Pickled	8000	1000	0,151	4086 02 3

V2A Stainless steel, grade 305 Pickled price/1,000 pc.

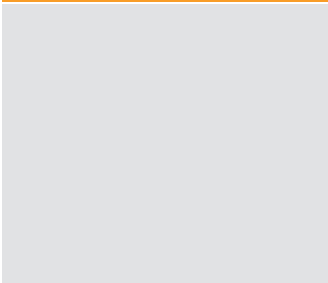


Bolt with inched thread with flange, Stainless steel, grade 305

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
1/4 - 20 x 3/8	1/4 - 20	3/8	V2A	1,4303	Pickled	7000	1000	0,194	4083 80 6
1/4 - 20 x 1/2	1/4 - 20	1/2	V2A	1,4303	Pickled	5000	1000	0,252	4083 81 4
1/4 - 20 x 3/4	1/4 - 20	3/4	V2A	1,4303	Pickled	3000	1000	0,366	4083 83 0
1/4 - 20 x 7/8	1/4 - 20	7/8	V2A	1,4303	Pickled	3000	1000	0,425	4083 85 7
1/4 - 20 x 1 1/4	1/4 - 20	1 1/4	V2A	1,4303	Pickled	1000	1000	0,597	4083 87 3
1/4 - 20 x 1 1/2	1/4 - 20	1 1/2	V2A	1,4303	Pickled	1000	1000	0,723	4083 88 1
1/4 - 20 x 1 3/4	1/4 - 20	1 3/4	V2A	1,4303	Pickled	1000	1000	0,845	4083 90 3

V2A Stainless steel, grade 305 Pickled price/1,000 pc.

Imperial threaded bolt with flange



Bolt with inched thread with flange, Stainless steel, grade 305

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
5/16 - 18 x 1/2	5/16 - 18	1/2	V2A	1,4303	Pickled	4000	1000	0,391	4086 22 8
5/16 - 18 x 5/8	5/16 - 18	5/8	V2A	1,4303	Pickled	1000	1000	0,555	4086 23 6
5/16 - 18 x 3/4	5/16 - 18	3/4	V2A	1,4303	Pickled	1000	1000	0,649	4086 24 4
5/16 - 18 x 1	5/16 - 18	1	V2A	1,4303	Pickled	1000	1000	0,762	4086 26 0
5/16-18 x 1 1/2	5/16 - 18	1 1/2	V2A	1,4303	Pickled	1000	1000	1,210	4086 28 7
V2A			Stainless steel, grade 305		Pickled	price/1,000 pc.			



PT threaded bolt for tip ignition



Imperial threaded bolt with flange



Bolt with inched thread with flange, Aluminium, AIMg 3

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
4 - 40 x 1/4	4 - 40	1/4	Aluminium	AIMg 3	—	20000	1000	0,010	4082 83 4
4 - 40 x 3/8	4 - 40	3/8	Aluminium	AIMg 3	—	20000	1000	0,013	4082 84 2
4 - 40 x 1/2	4 - 40	1/2	Aluminium	AIMg 3	—	15000	1000	0,017	4082 85 0
4 - 40 x 5/8	4 - 40	5/8	Aluminium	AIMg 3	—	1000	1000	0,024	4082 86 9
4 - 40 x 3/4	4 - 40	3/4	Aluminium	AIMg 3	—	10000	1000	0,025	4082 87 7
4 - 40 x 1	4 - 40	1	Aluminium	AIMg 3	—	10000	1000	0,032	4082 89 3

Al Aluminium

price/1,000 pc.



Bolt with inched thread with flange, Aluminium, AIMg 3

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
6 - 32 x 3/8	6 - 32	3/8	Aluminium	AIMg 3	—	20000	1000	0,019	4084 00 4
6 - 32 x 1/2	6 - 32	1/2	Aluminium	AIMg 3	—	15000	1000	0,025	4084 01 2
6 - 32 x 5/8	6 - 32	5/8	Aluminium	AIMg 3	—	10000	1000	0,031	4084 02 0
6 - 32 x 1	6 - 32	1	Aluminium	AIMg 3	—	6000	1000	0,048	4084 05 5

Al Aluminium

price/1,000 pc.



Bolt with inched thread with flange, Aluminium, AIMg 3

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
10 - 24 x 3/4	10 - 24	3/4	Aluminium	AIMg 3	—	5000	1000	0,070	4084 24 1
10 - 24 x 1	10 - 24	1	Aluminium	AIMg 3	—	4000	1000	0,093	4084 26 8
10 - 24 x 1 1/2	10 - 24	1 1/2	Aluminium	AIMg 3	—	1000	1000	0,143	4084 29 2

Al Aluminium

price/1,000 pc.



Bolt with inched thread with flange, Aluminium, AIMg 3

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
1/4 - 20 x 1/4	1/4 - 20	1/4	Aluminium	AIMg 3	—	9000	1000	0,047	4084 31 4
1/4 - 20 x 3/8	1/4 - 20	3/8	Aluminium	AIMg 3	—	7000	1000	0,067	4084 32 2
1/4 - 20 x 1/2	1/4 - 20	1/2	Aluminium	AIMg 3	—	5000	1000	0,087	4084 33 0
1/4 - 20 x 5/8	1/4 - 20	5/8	Aluminium	AIMg 3	—	4000	1000	0,115	4084 34 9
1/4 - 20 x 3/4	1/4 - 20	3/4	Aluminium	AIMg 3	—	3000	1000	0,126	4084 35 7
1/4 - 20 x 1	1/4 - 20	1	Aluminium	AIMg 3	—	2000	1000	0,166	4084 37 3
1/4 - 20 x 1 3/4	1/4 - 20	1 3/4	Aluminium	AIMg 3	—	1000	1000	0,301	4084 41 1

Al Aluminium

price/1,000 pc.

Imperial threaded bolt without flange

Bolt with inched thread without flange, Steel, copper-plated St 37-3

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
6 - 32 x 3/8	6 - 32	3/8	Steel	4,8	Copper-plated	20000	1000	0,051	4088 51 4
6 - 32 x 5/8	6 - 32	5/8	Steel	4,8	Copper-plated	10000	1000	0,084	4088 53 0
6 - 32 x 3/4	6 - 32	3/4	Steel	4,8	Copper-plated	10000	1000	0,100	4088 54 9
6 - 32 x 7/8	6 - 32	7/8	Steel	4,8	Copper-plated	10000	1000	0,117	4088 55 7
6 - 32 x 1	6 - 32	1	Steel	4,8	Copper-plated	8000	1000	0,133	4088 56 5

St Steel

Cu Copper-plated

price/1,000 pc.



Bolt with inched thread without flange, Steel, copper-plated St 37-3

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
8 - 32 x 5/8	8 - 32	5/8	Steel	4,8	Copper-plated	8000	1000	0,126	4088 64 6
8 - 32 x 3/4	8 - 32	3/4	Steel	4,8	Copper-plated	1000	1000	0,150	4088 65 4
8 - 32 x 7/8	8 - 32	7/8	Steel	4,8	Copper-plated	1000	1000	0,175	4088 66 2
8 - 32 x 1	8 - 32	1	Steel	4,8	Copper-plated	5000	1000	0,200	4088 67 0

St Steel

Cu Copper-plated

price/1,000 pc.



Bolt with inched thread without flange, Steel, copper-plated St 37-3

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
10 - 24 x 1/2	10 - 24	1/2	Steel	4,8	Copper-plated	9000	1000	0,132	4088 72 7
10 - 24 x 5/8	10 - 24	5/8	Steel	4,8	Copper-plated	10000	1000	0,164	4088 73 5
10 - 24 x 3/4	10 - 24	3/4	Steel	4,8	Copper-plated	1000	1000	0,195	4088 74 3
10 - 24 x 7/8	10 - 24	7/8	Steel	4,8	Copper-plated	1000	1000	0,228	4088 75 1

St Steel

Cu Copper-plated

price/1,000 pc.



Bolt with inched thread without flange, Steel, copper-plated St 37-3

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
10 - 32 x 3/8	10 - 32	3/8	Steel	4,8	Copper-plated	10000	1000	0,107	4088 81 6

St Steel

Cu Copper-plated

price/1,000 pc.



Bolt with inched thread without flange, Steel, copper-plated St 37-3

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
1/4 - 20 x 5/8	1/4 - 20	5/8	Steel	4,8	Copper-plated	4000	1000	0,295	4089 03 0

St Steel

Cu Copper-plated

price/1,000 pc.



PT threaded bolt for tip ignition



Imperial threaded bolt without flange

PT threaded bolt for tip ignition



Bolt with inched thread without flange, Stainless steel, grade 305

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
6 - 32 x 3/8	6 - 32	3/8	V2A	1,4303	Pickled	20000	1000	0,052	4087 71 2
6 - 32 x 1/2	6 - 32	1/2	V2A	1,4303	Pickled	15000	1000	0,069	4087 72 0
6 - 32 x 5/8	6 - 32	5/8	V2A	1,4303	Pickled	10000	1000	0,086	4087 73 9
6 - 32 x 7/8	6 - 32	7/8	V2A	1,4303	Pickled	10000	1000	0,117	4087 75 5
6 - 32 x 1	6 - 32	1	V2A	1,4303	Pickled	8000	1000	0,137	4087 76 3

V2A Stainless steel, grade 305 Pickled price/1,000 pc.



Bolt with inched thread without flange, Stainless steel, grade 305

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
8 - 32 x 3/8	8 - 32	3/8	V2A	1,4303	Pickled	15000	1000	0,076	4087 82 8
8 - 32 x 7/8	8 - 32	7/8	V2A	1,4303	Pickled	1000	1000	0,175	4087 86 0

V2A Stainless steel, grade 305 Pickled price/1,000 pc.



Bolt with inched thread without flange, Stainless steel, grade 305

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
10 - 24 x 1/4	10 - 24	1/4	V2A	1,4303	Pickled	10000	1000	0,068	4087 98 4
10 - 24 x 1/2	10 - 24	1/2	V2A	1,4303	Pickled	9000	1000	0,133	4088 01 8
10 - 24 x 5/8	10 - 24	5/8	V2A	1,4303	Pickled	10000	1000	0,165	4088 02 6
10 - 24 x 3/4	10 - 24	3/4	V2A	1,4303	Pickled	1000	1000	0,197	4088 03 4
10 - 24 x 7/8	10 - 24	7/8	V2A	1,4303	Pickled	1000	1000	0,230	4088 04 2

V2A Stainless steel, grade 305 Pickled price/1,000 pc.



Bolt with inched thread without flange, Stainless steel, grade 305

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
10 - 32 x 3/8	—	3/8	V2A	1,4303	Pickled	10000	1000	0,107	4088 11 5
10 - 32 x 7/8	—	7/8	V2A	1,4303	Pickled	1000	1000	0,246	4088 16 6
10 - 32 x 1	—	1	V2A	1,4303	Pickled	3000	1000	0,281	4088 17 4

V2A Stainless steel, grade 305 Pickled price/1,000 pc.



Bolt with inched thread without flange, Stainless steel, grade 305

Type	Thread Diameter	Length in	Material	Quality	Surface	Shipping box Units	Pack Units	Weight kg/100 pc.	Item no.
1/4 - 20 x 3/8	1/4 - 20	3/8	V2A	1,4303	Pickled	5000	1000	0,179	4088 32 8
1/4 - 20 x 1/2	1/4 - 20	1/2	V2A	1,4303	Pickled	4000	1000	0,237	4088 33 6
1/4 - 20 x 3/4	1/4 - 20	3/4	V2A	1,4303	Pickled	3000	1000	0,352	4088 35 2
1/4 - 20 x 1	1/4 - 20	1	V2A	1,4303	Pickled	2000	1000	0,468	4088 37 9

V2A Stainless steel, grade 305 Pickled price/1,000 pc.

