TIBOLT®
Blind Rivet Studs
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## Contents

<table>
<thead>
<tr>
<th>TIBOLT® blind rivet studs</th>
<th>Seite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overview</td>
<td>4</td>
</tr>
<tr>
<td>Flat head</td>
<td>6</td>
</tr>
<tr>
<td>Countersunk head</td>
<td>7</td>
</tr>
<tr>
<td>Steel, galvanised</td>
<td></td>
</tr>
</tbody>
</table>
TIBOLT® Blind Rivet Studs / Overview

TIBOLT® blind rivet studs are the alternative to weld studs or threaded self-clinching studs. The sleeve and stud are cold welded together. This welding process performs the double function of forming a twist-resistant joint between the two components while also holding the upset on the blind end of the rivet. Without this, the body that forms during the rivet installation process would drag the material away from the stud head. The welding process ensures that the blind rivet studs offer absolute stability and load-bearing capacity. The term ‘absolute’ here means that the stud, and not the rivet connection, gives way when overloaded. Upon installation, blind rivet studs can therefore be subjected to the same loads as same-quality DIN studs.

The TIBOLT® is installed from one side. This is both rational and time-saving, especially for components that are difficult or impossible to access from the blind side. Highly practical: as a result of this strong rivet installation process, it is also possible to fasten further sheet panels to the component. By attaching commercially available nuts, the protruding thread on the blind rivet stud will support any other installed fasteners. Blind rivet studs are supplied in 8.8 mating screw proof load quality. Their installation using hand lever or hydropneumatic installation tools is extremely easy, fast, and material-friendly. Surface-finished components can also be installed without being damaged. The same tools can be used as for blind rivet nuts, with only the threaded mandrels needing to be replaced with internal threaded mandrels.
Benefits at a glance

- One-sided access
- No thermal action on the base material, therefore no deforming or discolouring as occurs with welding, for example
- Replaces weld bolts or threaded self-clinching studs
- Enables the component to be pre-attached to the base component before fastening

Easy, rational and time-saving installation

1. Prepare the drilled hole.
2. Screw the TIBOLT® into the internal threaded mandrel of the rivet installation tool.
3. Insert the TIBOLT® blind rivet stud into the drilled hole.
4. The rivet installation tool retracts the internal threaded mandrel and rivets the TIBOLT® axially to the component. Hold the rivet installation tool squarely to the component when performing the installation.
5. Spin off the internal threaded mandrel.
6. The TIBOLT® is now ready to be used to support additional fasteners. For best twist-proof results, the attached parts must rest very flush on the head of the TIBOLT® blind rivet stud.

Form of delivery

Head type: Flat or countersunk head
Threads: M 4, M 5, M 6, M 8
Material Sleeve: C4C steel
Material Stud: 1.5523 steel (property class 8.8)
Finish: 5 – 8 μm galvanised and passivated, Cr-6 free, RoHS-compliant
## TIBOLT® blind rivet studs

**Flat head**

**Material**
- Steel, galvanised

### Specifications

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<th>Thread size d1</th>
<th>Grip range s [mm]</th>
<th>Hole ø [mm]</th>
<th>Thread length L1* [mm]</th>
<th>Shank ø d max [mm]</th>
<th>Head ø D [mm]</th>
<th>Head height k [mm]</th>
<th>Shank length L2 [mm]</th>
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* L1 = Dimensions will vary depending on the grip range and tool settings.

Further designs available on request.
# TIBOLT® blind rivet studs

## 90° countersunk head

**Material**

- Steel, galvanised

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<th>Hole ø [mm]</th>
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* L1= Dimensions will vary depending on the grip range and tool settings

When installing the countersunk head version, the drilled hole should only be countersunk deep enough so that the head of the TIBOLT® blind rivet studs protrudes approx. 0.1 mm above the surface.

Further designs available on request.
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Headquarters
Titgemeyer GmbH & Co. KG
Hannoversche Straße 97
49084 Osnabrück / DE
POB 4320
49033 Osnabrück / DE
T +49 541 5822-0
E info@titgemeyer.com
W titgemeyer.com

Sales locations
Gebr. Titgemeyer GmbH
Brunner Straße 77 – 79
1230 Wien / AT
T +43 (0) 1/6 67 90 40 – 0
E sales@titgemeyer.com
W titgemeyer.at

Titgemeyer CZ spol. s r.o.
U Vodárny 1506
397 01 Písek / CZ
T +420 382 2067 – 25
E sales@titgemeyer.com
W titgemeyer.cz.cz

Titgemeyer Polska sp. z o.o.
Cypriana Bazylika 17
98-200 Sieradz / PL
T +48 (0) 43 828 20 – 15
E sales@titgemeyer.com
W titgemeyer.pl

Titgemeyer Skandinavien A/S
Lunikvej 32
2670 Greve / DK
T +45 4360 0966
E info@titgemeyer.dk
W titgemeyer.dk

Titgemeyer Skandinavien A/S
Box 3218
550 03 Jönköping / SE
T +46 36 128350
E info@titgemeyer.se
W titgemeyer.se

Production locations
Baker & Finnemore Limited
199 Newhall Street
Birmingham, B3 1SN / UK
T +44 121 213 62 – 347
E info@bakfin.com
W bakfin.com

Titgemeyer GmbH & Co. KG
Werk Lotte
Daimlerstraße 13 – 15
49504 Lotte / DE
T +49 5404 9666 – 0
E info@titgemeyer.com
W titgemeyer.com

RIEKO GmbH
Robert-Bosch-Straße 9
72124 Pliezhausen / DE
T +49 7127 9744 – 0
E info@rieko-web.com
W rieko-web.com

RIVETEC s.r.o.
U Vodárny 1506
397 01 Písek / CZ
T +42 382 2067 – 11
E info@rivetec.cz
W rivetec.cz

TS Gesellschaft für Transport- und Sicherungssysteme mbH
Haßlinghauser Straße 156
58285 Gevelsberg / DE
T +49 541 5822 – 900
E ts@cargosicurezza.de
W wir-sind-ladungssicherung.de