TITGEMEYER

Fastening Technology / Blind Rivets

TIFAS® M-Lock Blind Rivets

All technical data is intended as a guide but is not binding! Subject to change without notice.

Contents

			Page
TIFAS® M-Lock blind rivets	Overview		5
	Truss head	Steel/steel	6
	Countersunk 100°	Steel/steel	7
	Truss head	Aluminium/aluminium	8
	Countersunk 100°	Aluminium/aluminium	9
	Truss head	Stainless steel A2/Stainless steel A2	10
	Countersunk 100°	Stainless steel A2/Stainless steel A2	11
	Truss head	Stainless steel A4/stainless steel A4	12
	Countersunk 100°	Stainless steel A4/stainless steel A4	13

All technical data is intended as a guide but is not binding! Subject to change without notice.

All technical data is intended as a guide but is not binding! Subject to change without notice.

TIFAS® M-Lock blind rivets

A high-strength blind rivet that remains snug even under dynamic load. Holes can be prepared to ensure joints are water and airtight. The mandrel always breaks flush, even when materials of varying strengths and thicknesses are present within the grip range. The blind side footprint is minimal. The gripping area is large. Also available in A4 stainless steel.

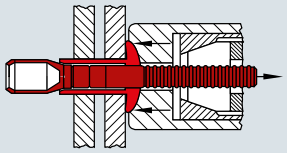
Applications

- General industry
- Automotive industry
- Construction industry
- Bodywork and vehicle manufacture

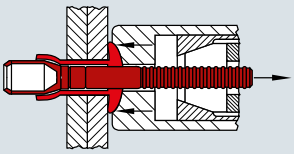
Benefits at a glance

- Universal use
- The mandrel draws itself into the sleeve, causing the sleeve to widen and completely fill the bore hole; ideal for dynamic loads.
- Mandrel always breaks off flush at the snap head
- Large grip range
- The securely fitting mandrel makes for vibration-resistant applications
- Combines various materials such as metals and plastics
- Quick and secure installation
- Permanent secure fixing
- Heatless installation means component will not warp.
- Eliminates extensive refinishing

1.



2.



3.

All technical data is intended as a guide but is not binding! Subject to change without notice.

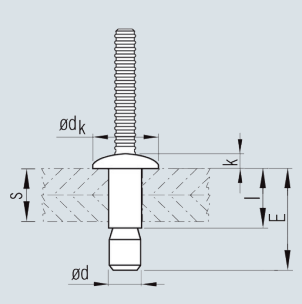
TIFAS® M-Lock blind rivets

Truss head

Material

Sleeve
Steel SAE 1006/1020M,
galvanised, passivated

Mandrel
Steel AISI 10B21,
galvanised, passivated



Nominal ø d [mm]	Bore ø [mm]	Grip range s [mm]	Blind sleeve l ±0.3 [mm]	E max. [mm]	Blind rivet head ø dk ±0.4 [mm]	Height k ±0.3 [mm]	Nominal strength at break* Shear N	Tensile N	Article No.
4.8	4.9 - 5.1	1.6 - 6.9	10.5	17,2	9.8	2.1	5780	4440	415 810 001
6.4	6.6 - 6.9	2.0 - 9.5	14.2	24,6	13.0	2.8	10790	8220	415 820 001
		8.9 - 15.9	20.5	31,0	13.0	2.8	10790	8220	415 821 002
		2.0 - 15.9	20.5	35,7	13.0	2.8	10790	8220	415 822 001

* Strengths at break relate to rivet failure.

Other designs available on request.

All technical data is intended as a guide but is not binding! Subject to change without notice.

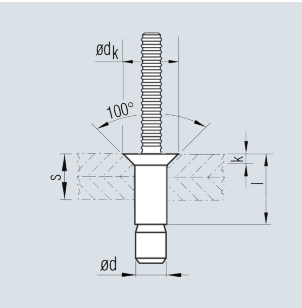
TIFAS® M-Lock blind rivets

Countersunk 100°

Material

Sleeve
Steel SAE 1006/1020M,
galvanised, passivated

Mandrel
Steel AISI 10B21,
galvanised, passivated



Nominal ø d [mm]	Bore ø [mm]	Grip range s [mm]	Blind sleeve l ±0.3 [mm]	E max. [mm]	Blind rivet head ø dk ±0.3 [mm]	Height k ±0.3 [mm]	Nominal strength at break* Shear N	Tensile N	Article No.
6.4	6.6 - 6.9	4.1 - 12.1	16.7	26,9	10.0	2.0	11280	8900	415 860 001

* Strengths at break relate to rivet failure.

Other designs available on request.

All technical data is intended as a guide but is not binding! Subject to change without notice.

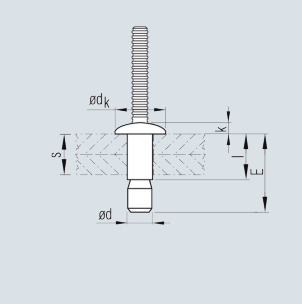
TIFAS® M-Lock blind rivets

Truss head

Material

Sleeve
Aluminium AA 5056,

Mandrel
Aluminium AA 7075,



Nominal ø d [mm]	Bore ø [mm]	Grip range s [mm]	Blind sleeve l ±0.3 [mm]	E max. [mm]	Blind rivet head ø dk ±0.4 [mm]	Height k ±0.3 [mm]	Nominal strength at break* Shear N	Tensile N	Article No.
6.4	6.6 - 6.9	8,9 - 15,9	20,5	31,0	13	2.8	5780	3900	415 841 901
		2.0 - 15.9	20,5	35,7	13	2.8	5780	3900	415 842 001

* Strengths at break relate to rivet failure.

Other designs available on request.

All technical data is intended as a guide but is not binding! Subject to change without notice.

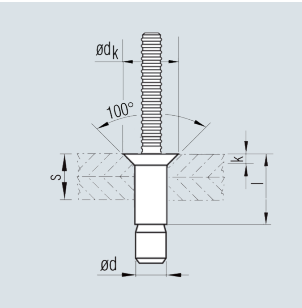
TIFAS® M-Lock blind rivets

Countersunk 100°

Material

Sleeve
Aluminium AA 5056,

Mandrel
Aluminium AA 7075,



Nominal ø d [mm]	Bore ø [mm]	Grip range s [mm]	Blind sleeve l ±0.3 [mm]	E max. [mm]	Blind rivet head ø dk ±0.3 [mm]	Height k ±0.3 [mm]	Nominal strength at break* Shear N	Tensile N	Article No.
4,8	4,9 - 5,1	3,2 - 8,4	12,3	19,4	8,5	1,8	3110	2220	415 870 901
		7.8 - 12.7	16.6	23,6	8.5	1.8	3110	2220	415 871 901
6.4	6.6 - 6.9	4.1 - 12.1	16.7	26,9	10.0	2.0	5780	3950	415 880 901
		10.5 - 18.4	23.0	33,3	10.0	2.0	5780	3950	415 881 901

* Strengths at break relate to rivet failure.

Other designs available on request.

All technical data is intended as a guide but is not binding! Subject to change without notice.

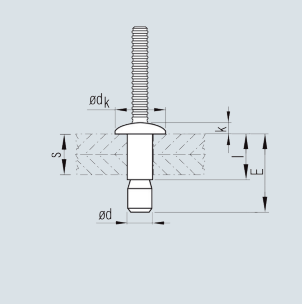
TIFAS® M-Lock blind rivets

Truss head

Material

Sleeve
Stainless steel AISI 304CU, passivated

Mandrel
Stainless steel AISI 304 passivated



Nominal ø d [mm]	Bore ø [mm]	Grip range s [mm]	Blind sleeve l ±0.3 [mm]	E max. [mm]	Blind rivet head ø dk ±0.4 [mm]	Height k ±0.3 [mm]	Nominal strength at break* Shear N	Tensile N	Article No.
4.8	4.9 - 5.1	1.6 - 6.9	10.5	17,2	9.8	2.1	5780	4200	415 910 001
		1,6 - 6,9	10,5	17,2	9.8	2.1	5780	4200	415 910 217
6.4	6.6 - 6.9	2.0 - 9.5	14.2	24,6	13.0	2.8	11100	8800	415 920 001
		2,0 - 9,5	14,2	24,6	13,0	2,8	11100	8800	415 920 217
		8.9 - 15.9	20.5	31,0	13.0	2.8	11100	8800	415 921 001
		8.9 - 15.9	20.5	31,0	13.0	2.8	11100	8800	415 921 224

* Strengths at break relate to rivet failure.

Other designs available on request.

All technical data is intended as a guide but is not binding! Subject to change without notice.

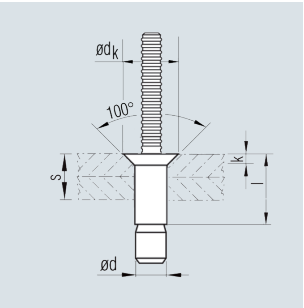
TIFAS® M-Lock blind rivets

Countersunk 100°

Material

Sleeve
Stainless steel AISI 302/304, passivated

Mandrel
Stainless steel AISI 305/304



Nominal ø d [mm]	Bore ø [mm]	Grip range s [mm]	Blind sleeve l ±0.3 [mm]	E max. [mm]	Blind rivet head ø dk ±0.3 [mm]	Height k ±0.3 [mm]	Nominal strength at break* Shear N	Tensile N	Article No.
4.8	4.9 - 5.1	3.2 - 8.4	12.3	19,4	8.6	1.8	5780	4210	415 950 001
		7.8 - 12.7	16.5	23,6	8.6	1.8	5780	4210	415 951 001
6.4	6.6 - 6.9	4.1 - 12.1	16.7	26,9	10.0	2.0	11120	8890	415 960 001
		4,1 - 12,1	16,7	26,9	10,0	2,0	11120	8890	415 960 216
		10.6 - 18.4	23.0	33,3	10.0	2.0	11120	8890	415 961 001

* Strengths at break relate to rivet failure.

Other designs available on request.

All technical data is intended as a guide but is not binding! Subject to change without notice.

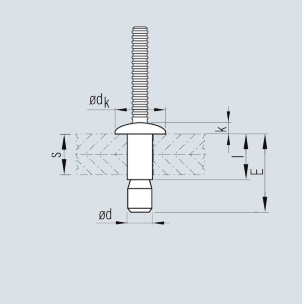
TIFAS® M-Lock blind rivets

Truss head

Material

Sleeve
Stainless steel A4

Mandrel
Stainless steel A4



Nominal ø d [mm]	Bore ø [mm]	Grip range s [mm]	Blind sleeve l ±0.3 [mm]	E max. [mm]	Blind rivet head ø dk ±0.3 [mm]	Height k ±0.3 [mm]	Nominal strength at break* Shear N	Tensile N	Article No.
4.8	4.9 - 5.1	1.6 - 6.9	10.5	17,2	9.8	2.1	5780	4200	415 970 000
		5.4 - 11.1	14.5	21,0	9.8	2.1	5780	4440	415 971 000
		1.6 - 11.1	14.5	24,1	9.8	2.1	5780	4440	415 972 000
6.4	6.6 - 6.9	2.0 - 9.5	14.2	24,6	13.0	2.8	10790	8220	415 975 000
		8.9 - 15.9	20.5	31,0	13.0	2.8	10790	8220	415 976 000
		2.0 - 15.9	20.5	35,7	13.0	2.8	10790	8220	415 977 000

* Strengths at break relate to rivet failure.

Other designs available on request.

All technical data is intended as a guide but is not binding! Subject to change without notice.

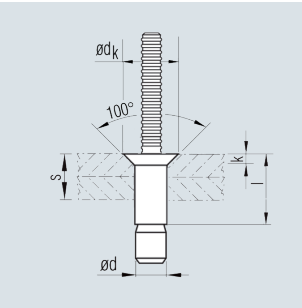
TIFAS® M-Lock blind rivets

Countersunk 100°

Material

Sleeve
Stainless steel A4

Mandrel
Stainless steel A4



Nominal ø d [mm]	Bore ø [mm]	Grip range s [mm]	Blind sleeve l +1.0 -0.2 [mm]	E max. [mm]	Blind rivet head ø dk ±0.3 [mm]	Height k ±0.3 [mm]	Nominal strength at break* Shear N	Tensile N	Article No.
4.8	4.9 - 5.1	3.2 - 8.4	12.3	19,4	8.6	1.8	6200	4700	415 980 000
		7.8 - 12.7	16.6	23,6	8.6	1.8	6200	4700	415 981 000
6.4	6.6 - 6.9	4.1 - 12.1	16.7	26,9	10.0	2.0	11700	8900	415 985 000
		10.5 - 18.4	23.0	33,3	10.0	2.0	11700	8900	415 986 000

* Strengths at break relate to rivet failure.

Other designs available on request.

All technical data is intended as a guide but is not binding! Subject to change without notice.

Notes

All technical data is intended as a guide but is not binding! Subject to change without notice.

Copyright
All texts, images, technical documents and other information contained in this catalogue are subject to copyright held by Titgemeyer GmbH & Co. KG. Any reproduction or disclosure, whether as a copy or other form of duplication or use, is expressly prohibited without the prior consent of Titgemeyer GmbH & Co. KG.

Registered trademarks
The trademarks BÖRTI, GETO, GETO therm, GETOVAN, GTO, LockBolt, MEGA PORT, plasti van, PLYFIX, POLYSTIC, press-ti, RIEKO, RIV-TI, ROLL-TO, TIBOLT, TIBULB, TIFAS, TILA, TIOS and Titgemeyer are registered trademarks and the intellectual property of Titgemeyer GmbH & Co. KG.

Term of Delivery and Payment
All deliveries are carried out in compliance with our Terms of Delivery and Payment.

Limitation of liability
All technical data, performance descriptions, drawings, illustrations, measurements, weights or any other performance data, recommendations and guidelines contained in this catalogue and relating to the installation of parts that we supply are only binding if so expressly agreed. Moreover, the user is obliged at all times to check each individual use and decide whether the components that we supply can be used as needed.

We accept liability in the case of wilful intent, gross negligence and infringement of cardinal contractual duties as well as for errors in respect of express or implied representations. Notwithstanding this, any claims for compensation not explicitly agreed to in these terms and conditions are hereby excluded in the case of customers who are not consumers and, in the case of such customers, who are not consumers, at all events limited to the damage foreseeable at the time of concluding the contract as well as to the value of the delivered consignment. To the extent that our liability is excluded or limited, this shall extend accordingly to the personal liability of employees, legal representatives and vicarious agents. In all instances of gross negligence committed by vicarious agents, we shall solely be liable to customers, who are not consumers, to compensate for typically foreseeable damage. The statutory regulation governing the burden of proof shall remain unaffected. The aforementioned limitation of liability shall not apply to claims resulting from product liability, for damage resulting from injury to life, limb or health, or for damage to privately used property.

All technical specifications contained in this brochure are approximate and no guarantee is given as to their accuracy. Designs are subject to change.

All technical data is intended as a guide but is not binding! Subject to change without notice.

About us

Titgemeyer is a leading international provider in the fields of fastening technology, automation solutions, and industrial components. With over 500 employees across 11 European locations, this family-owned company, headquartered in Osnabrück, Germany, can look back on 125 years of success. Its portfolio comprises around 20,000 products, developed and manufactured both in series and in customised versions to meet specific customer needs.

Headquarters

Titgemeyer GmbH & Co. KG
Hannoversche Straße 97
49084 Osnabrück / DE

PO Box 4320
49033 Osnabrück / DE

T +49 541 5822-0
E info@titgemeyer.com
W titgemeyer.com

Sales locations

Titgemeyer Austria GmbH
Brunner Straße 77 – 79
1230 Wien / AT

T +43 1 667 9040-0
E vertrieb-tat@titgemeyer.com
W titgemeyer.at

Titgemeyer CZ spol. s r. o.
U Vodárny 1506
397 01 Pisek / CZ

T +420 732 598 375
E obchod@titgemeyer.com
W titgemeyercz.cz

Titgemeyer Polska sp. z o.o.
Cypriana Bazylika 17
98-200 Sieradz / PL

T +48 438 282 015
E sales-pl@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 Sverige
Box 3218
550 03 Jönköping / SE

T +46 (0) 3612 8350
E info@titgemeyer.se
W titgemeyer.se

Titgemeyer Finland
Hatanpään valtatie 24
33100 Tampere / FI

T +358 (0) 400 448 401
E info@titgemeyer.fi
W titgemeyer.fi

Titgemeyer (UK) Limited
A2 Link One Industrial Park
George Henry Road
DY4 7BU Tipton / UK

T +44 121 557 9777
E tuk-sales@titgemeyer.com
W titgemeyer.co.uk

Titgemeyer France
Titgemeyer GmbH & Co. KG
Hannoversche Straße 97
49084 Osnabrück / DE

T +33 7 6052 8753
E marc.gaussin@titgemeyer.com
W titgemeyer.fr

Production sites

Cirteq Limited
'Hayfield' Colne Road,
Glusburn, Keighley,
West Yorkshire, BD20 8QP

T +44 1535 633 333
E sales@cirteq.com
W cirteq.com

Titgemeyer Tools & Automation spol s.r.o.
U Vodárny 1506
397 01 Písek / CZ

T +420 732 657 298
E tta-sales@titgemeyer.com
W titgemeyer.com/en/tools-automation/