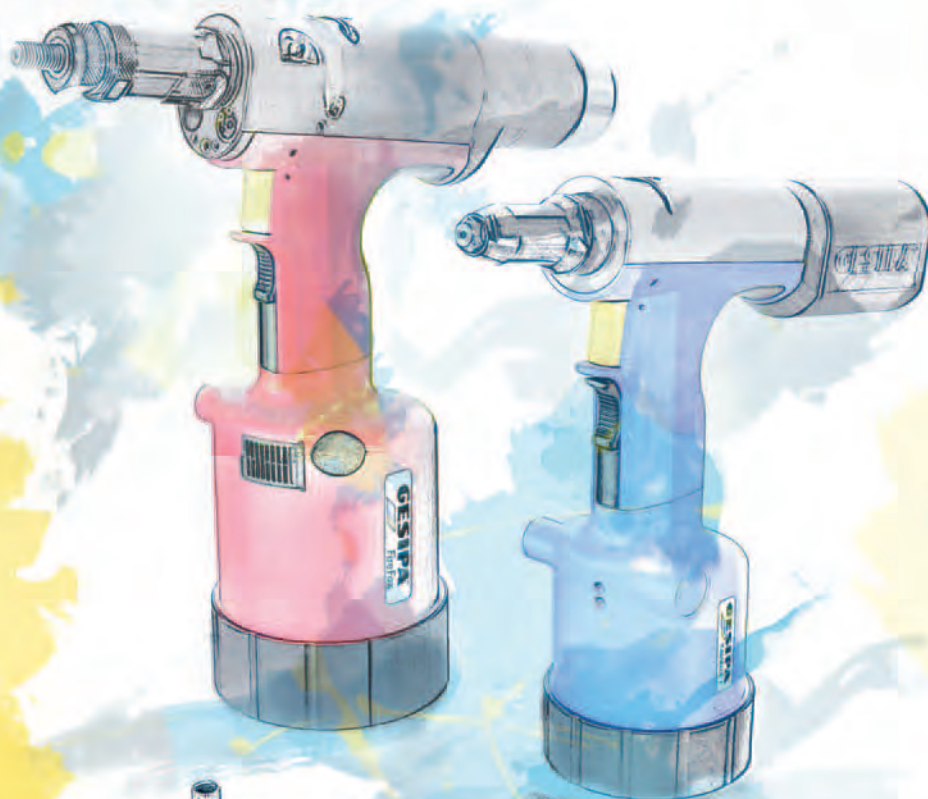


The experts in blind riveting



Programme 2012

effective 1st July 2012

Blind rivets and riveting tools

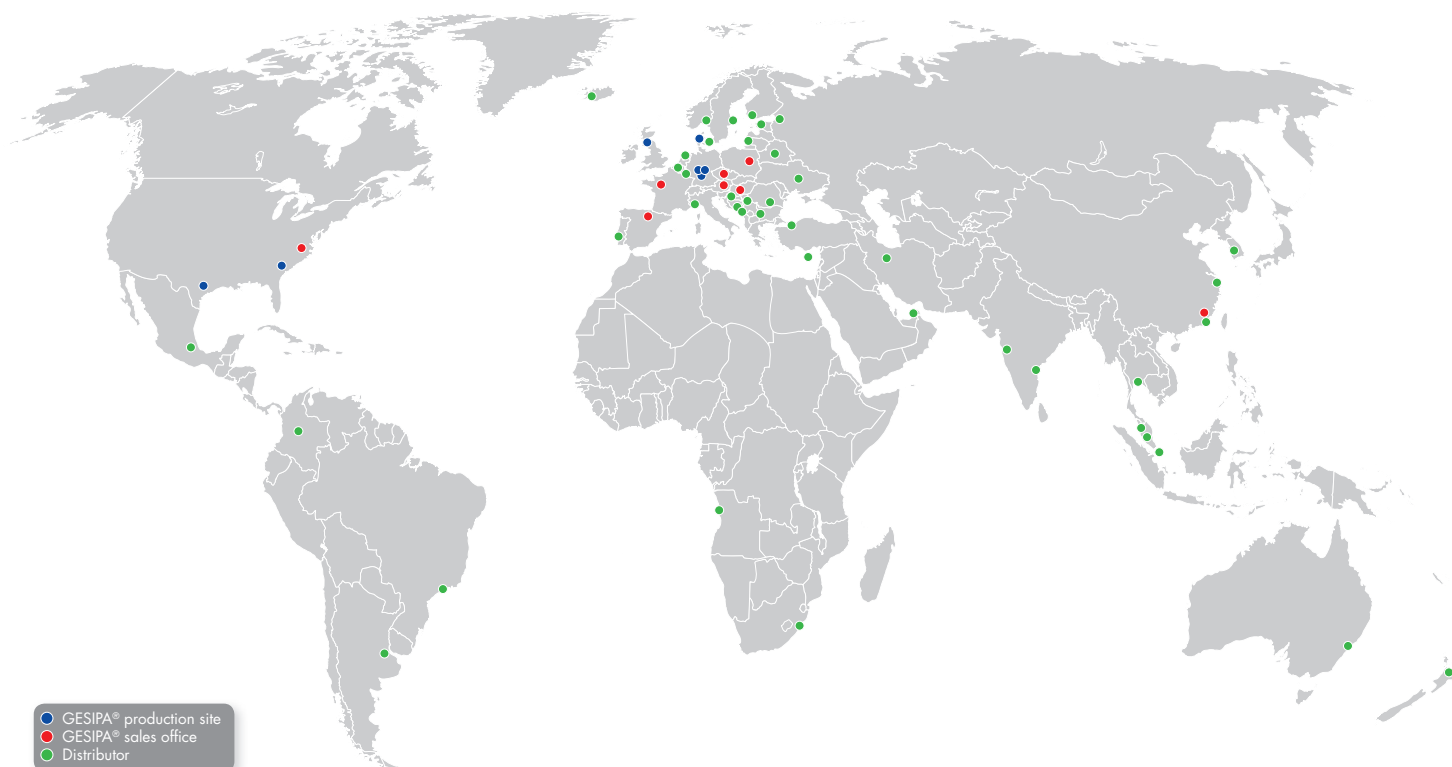


GESIPA®



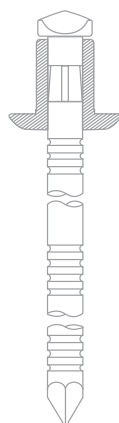
Founded in 1955 by Dr. Hans-Georg Biermann and his wife Ibeth Biermann, GESIPA Blindniettechnik GmbH has developed into a leading international company for blind rivet technology. The high quality and reliability of GESIPA® fasteners and the innovative, high-quality setting tools have made GESIPA® a valued partner to the trade and industry worldwide.

Over 600 employees at seven production sites throughout the world, including three locations in Germany, turn out high-quality and innovative products day after day with dedication and passion. Foreign sales are handled by eight subsidiary companies and more than forty foreign representatives.



Family-owned up to the end of 2008, GESIPA Blindniettechnik GmbH is now part of the international group SFS intec AG, and as such well prepared to meet the future challenges imposed by its partners in trade and industry with new ideas and solutions.

CUSTOMER PROXIMITY and FLEXIBILITY are certainly given top priority at GESIPA®.



As one of the last companies producing fastener technology in Germany, GESIPA® remains absolutely loyal to the specialist trade. The comprehensive external sales force provides expert advice on all questions relating to blind rivet technology, while the internal sales and despatch personnel guarantee smooth working processes and fast, reliable delivery.



The Technical Sales team advises and looks after the demanding requirements of national and international industry customers. The technically and economically optimum solutions are developed together with developers, production planners and quality specialists.

Two of the largest industrial customer groups of GESIPA® are the automotive industry and automotive sub suppliers, which both place stringent demands on reliable and economic fastening solutions.

The readiness for innovation and creativity of all employees contribute to long-term customer satisfaction and partnership cooperation, in order to consolidate and extend the market leadership of GESIPA®.

In the product group of setting tools, decisive market leadership is ensured by forward-looking products such as the battery-powered blind riveting tools, the GAV riveting machines, the TAURUS series and the newly-developed FireFox® blind rivet nut setting tool.

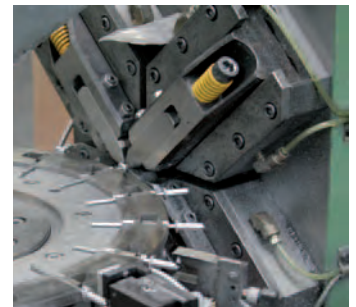
Innovative fasteners such as PolyGrip®, G-Bulb® structural rivet and BulbTite® blind rivets, originally developed for industry and the construction sector, also demonstrate their advantages outstandingly in other markets.



Reliability and consistent performance, demonstrated millions of times, is achieved by GESIPA® through its vast experience in production, gained over many years, and a quality concept which is unique in the sector.

Highly qualified employees, the best production machines and the in-production quality organisation guarantee fulfilment of even the most demanding customer requirements. In addition to the checking of dimensions, tolerances and quality of the raw materials, finished products are also submitted to extensive functional checks before they leave the works. All GESIPA® products correspond with the RoHS 2011/65/EU directive.

All German GESIPA® production locations operate a quality management system certified to DIN EN ISO 9001 and ISO TS 16949.



PowerBird® Gold Edition

Page 63



Bird versions with spring loaded trigger system

Page 64



NEW

Angle head for TAURUS 1-4

Page 74



Head modules for TAURUS 5 and 6

Page 71



FireFox® protective cover

Page 120



FireFox® C

**Available
from end
of 2012**

Page 121



Blind rivet A2 and A4/ stainless steel large flange

Page 24

TAUREX Axial compact

Page 78

Available from end of 2012



TAURUS Axial

Page 77

Available from end of 2012



TAUREX Axial

Page 79

Available from end of 2012



TAURUS Axial eco

Available from end of 2012



Page 76

all versions also with spring loaded trigger system

NEW

FireFly in cardboard box



Page 115

Blind rivet A4/stainless steel 4.8 mm and 5.0 mm
Page 24

Blind rivet Alu/stainless steel 3.2 mm and 4.8 mm
Page 19

Contents — Blind rivets

Blind rivets

Standard range

from page 12

PolyGrip®

Multigrip blind rivets

from page 26

SolarGrip®

Solar blind rivets

from page 30

CAP

Closed end rivets

from page 32

Blind rivets

Special range

from page 36

G-Bulb® / MEGA GRIP®

High strength blind rivets

from page 40

BULB-TITE® / TRI-FOLD®

Folding type blind rivets

from page 44

Processing devices for blind rivets

from page 48

Blind rivet hand tools

Battery powered blind rivet setting tools

Hydro-pneumatic blind rivet setting tools

Automatic riveting machines

from page 52

from page 56

from page 66

from page 86

DIY program

Tools and assortments

page 123



Contents — Blind rivet nuts

Blind rivet nuts Standard range and PolyGrip®		from page 100
Blind rivet nut studs		from page 109
Processing equipment for blind rivet nuts		from page 110
Blind rivet nut hand tools		from page 112
Battery powered blind rivet nut setting tool		from page 116
Hydro-pneumatic blind rivet nut setting tools		from page 118
DIY program Tools and assortments		page 123

Colour key

	Alu
	Steel
	Copper

	Stainless steel A2
	Stainless steel A4
	Plastic
	Monel

Further dimensions and types available upon request

We reserve the right to make changes to the entire price list.
We do not accept liability for printing errors and mistakes.

All prices are exclusive of VAT and delivery.

The warranty period for all tools purchased on or after 1st June 2011 is 24 months (according to the terms listed in the operating manual), except the batteries.

GESIPA® – The special blind rivet

GESIPA® always manufactures with state of the art technology. Perfect products are secured by continuous investment in staff qualification and production machinery. Permanent controls during manufacturing guarantee outstanding setting characteristics and a firm hold, batch after batch after batch...

Better than the standard

The location of the mandrel break-points in GESIPA® blind rivets is matched to the body length in such a way that the setting tool needs only to be triggered once to set the rivet and extract the spent mandrel, no matter how long the body is. GESIPA® rivets also have a longer mandrel than other rivets as a standard, so that nosepieces extended by up to 10 mm can be used without any problem.

A clean solution

GESIPA® blind rivets are thoroughly cleaned and fitted with high-quality, bright-galvanised mandrels. Soiling of the tool's jaws is minimised, thus extending significantly the service life of the setting tools.

Great connection

GESIPA® blind rivets always produce a high-quality and visually attractive finish thanks to their matched geometries and the high-quality materials of the individual components.



Fast and flexible

GESIPA® blind rivets are stocked so that all standard dimensions, and even some non standard sizes, are normally 100 % available.

Orders placed by 2 pm (or by 11 am on Fridays) are usually despatched the same day.

Our repairs department will deal with your tool repairs in the usual, professional manner within 48 hours.

Perfect interaction

GESIPA® blind rivets and GESIPA® setting tools are perfectly matched to each other and use of the correct nosepiece will produce the perfect finish.

GESIPA® setting tools offer minimal wear, short working cycles and a long service life, thereby guaranteeing minimum costs.

56 years of experience

Since 1955, GESIPA® has concentrated on creating the greatest possible customer benefits with the GESIPA® blind rivet and GESIPA® setting tools.

56 years of experience, which fully reflect in our products.

You can rely on GESIPA® quality!

In the best hands at GESIPA®...

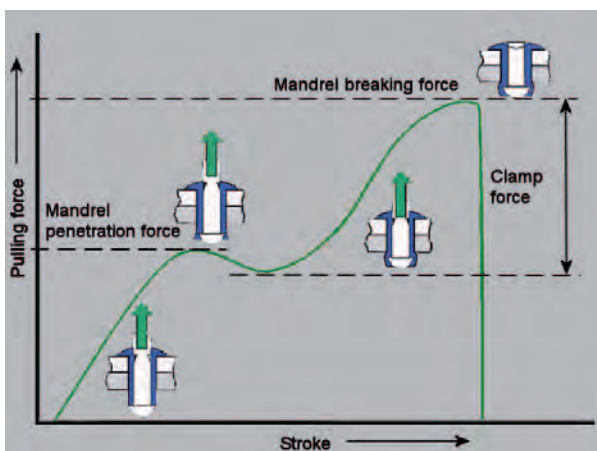
Special challenges in industry demand special solutions with regard to efficiency, function and innovation. GESIPA® has decades of experience in consultancy and development of blind rivets for specific applications. Requirements such as surface treatments, appropriate shear strength and/or tensile strength and setting process reliability are defined by Technical Sales according to the project, and guarantee millions of consistent quality fastenings.

Quality

From the traceability and documentation of the raw materials to the checking of dimensions and tolerances during production, GESIPA® attaches the greatest value to quality. But GESIPA® also goes one decisive step further. For blind rivets for specific applications, thorough functional tests are carried out and documented step-by-step.

Functional tests / setting curve

For every production batch of blind rivets for specific applications, the setting curve is measured on a sophisticated test bench. The measured results of shaft deformation, insertion characteristics, mandrel shear load and tensile force are compared with the target values in order to ensure that the blind rivet forms as intended in the application and produces a secure fastening.

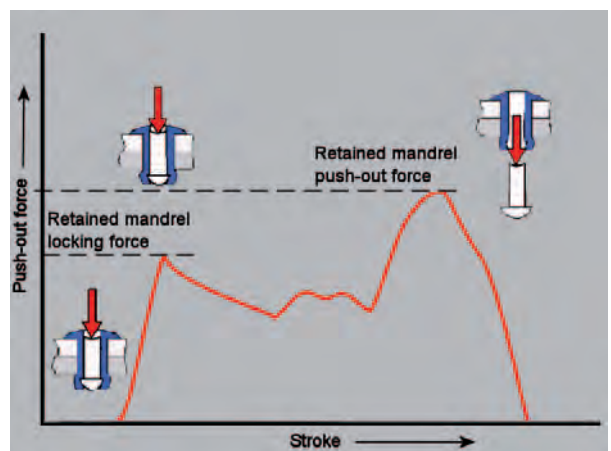


Function tests / mandrel press-out force

The remaining part of the mandrel enclosed in the set rivet is pressed out. The measured force can be used to determine whether the remaining part of the mandrel is properly locked and will not cause any rattling noises or even fall out. The batch is only released if both these values are within tolerance.

Monitored process – reliable connection

Safety relevant processes in the industrial use of blind rivets make 100 % reliability of riveting operations essential. Process-monitored GESIPA® tools of the TAURUS series and the fully automatic GAV 8000 riveting machine enable economic application solutions, from the basic system to systems with barcode scanners and process computers.



One fastener for several applications

The versatility of GESIPA® fasteners often means that several application cases which previously required different fasteners can be served by a single specially designed blind rivet. This saves costs and simplifies handling.

Cost advantages at a glance

- Reduction of downstream quality costs due to GESIPA® setting process monitoring
- Reduction of wearing parts costs due to identical parts strategy and modular design of the tools
- Reduction of logistics costs due to multi-functionality of the fasteners and corresponding reduction of parts diversity.

Challenge us!

Blind rivet technology

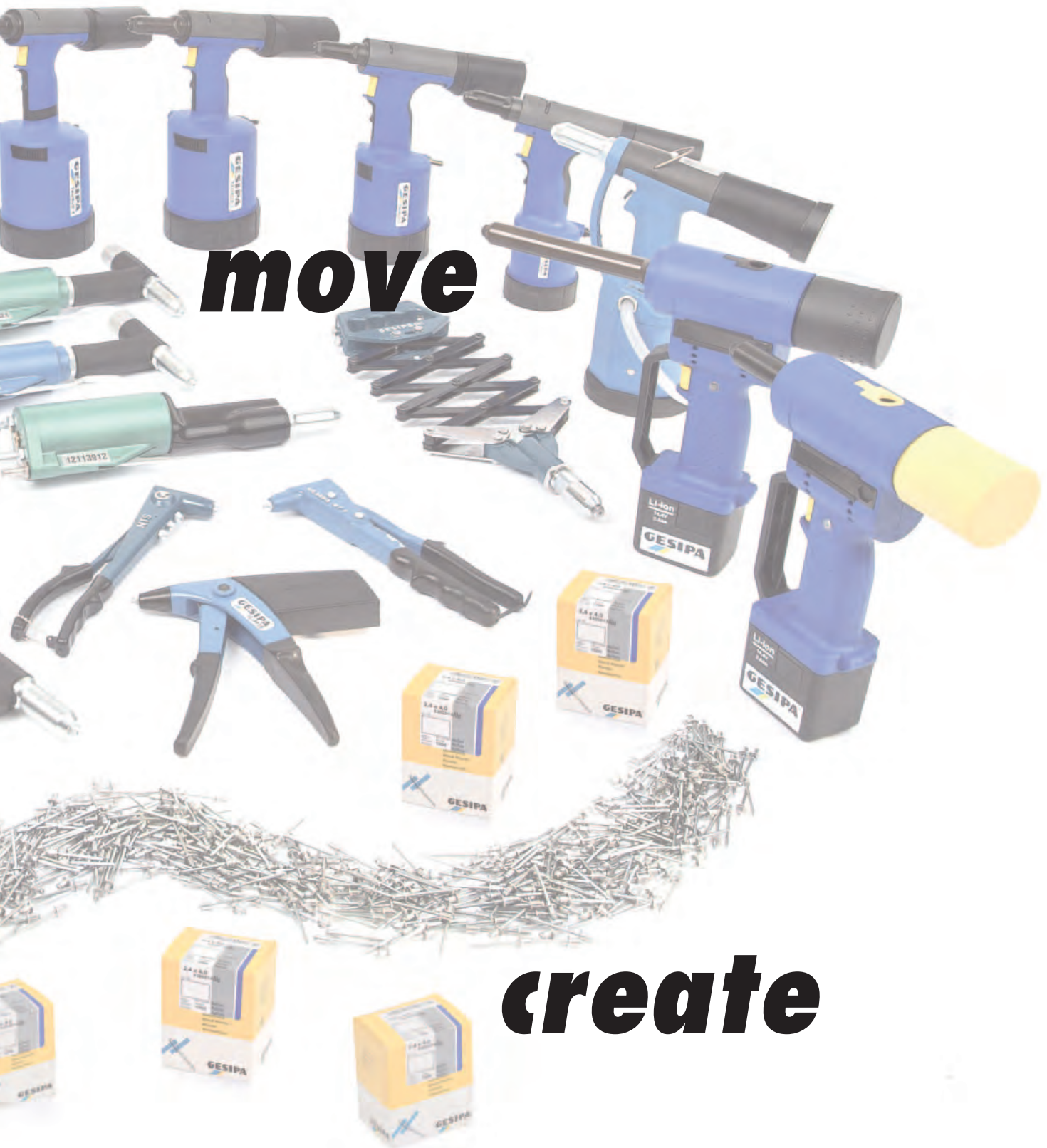
know

understand

trust

move

create



Technical data on

GESIPA® blind rivet - efficient technology

Life without blind rivet technology from GESIPA® can no longer be imagined in modern industry production where connection technology is required due to its efficiency and versatility. It combines the advantages of overcoming restricted component accessibility, permanently safe connection of different, and sensitive materials, and even documentation of the setting process if required.

Technically speaking, the blind rivet consists of two parts: the hollow rivet and the mandrel. During screw-connecting, clinching and punch riveting etc. the component must always be accessible on both sides but the special thing about blind riveting is that the component only needs to be accessed from one side.

GESIPA® blind rivets - connections that last

During the setting process, the mandrel is pulled with the jaws of the setting tool and forms the hollow rivet to the predefined fixed position in the component. The mandrel then breaks off at the intended point (the target breakage point) and can be recycled. The filling cut (this is the remaining rest of mandrel in the hollow rivet) can provide an additional securing function depending on the application.

GESIPA® blind rivets - for every application

Blind rivets are available in a variety of designs, materials, forms, lengths and even colours. Depending on the task which the blind rivet should fulfil, GESIPA® can choose between a standard model available from stock or a blind rivet specially designed for the application.

In the standard range, the rule of thumb is that the joint thickness added to the diameter of the hollow rivet results in the necessary rigid body length.

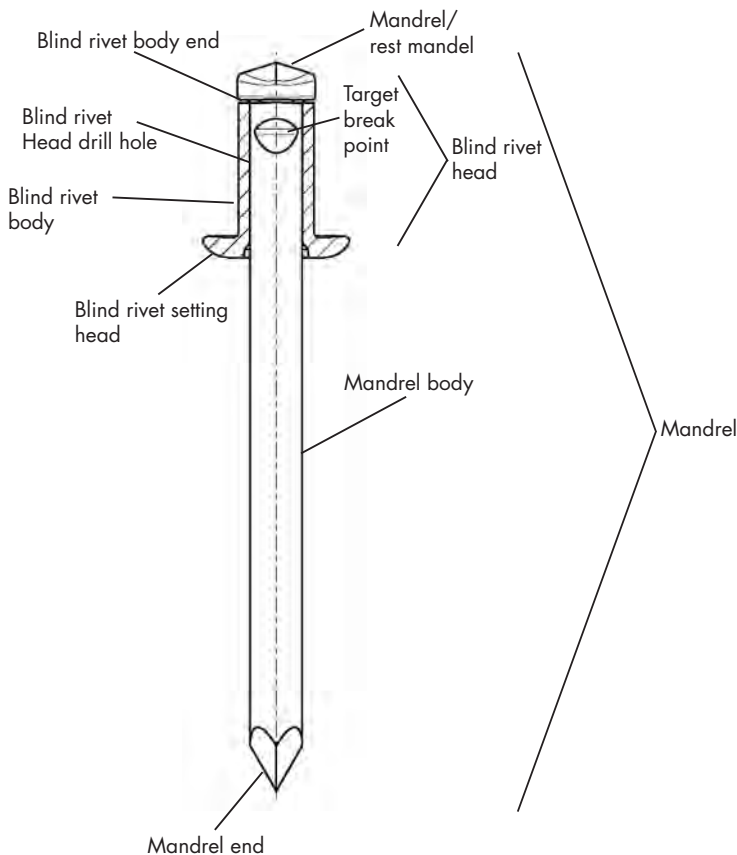
GESIPA® blind rivet - a rule of thumb

Rule of thumb: joint + rivet diameter = rivet body length



GESIPA® blind rivets

GESIPA® blind rivets - concepts



The blind rivet consists of two parts: the hollow rivet and the mandrel.

The hollow rivet consists of the setting head and body.

The setting head is found on the processing side and is variable in diameter and form. There are the dome, countersunk and large flange versions. The rivet body is available in different lengths depending on the material thickness to be riveted.

The rivet mandrel is used to deform the rivet body. It contains the predetermined breaking point. This is where the rivet mandrel breaks after the rivet has deformed. The filling section is the remaining part of the rivet mandrel in the hollow mandrel. The residual mandrel is the part of the rivet mandrel that is disposed of from the set rivet via the blind rivet setting tool.



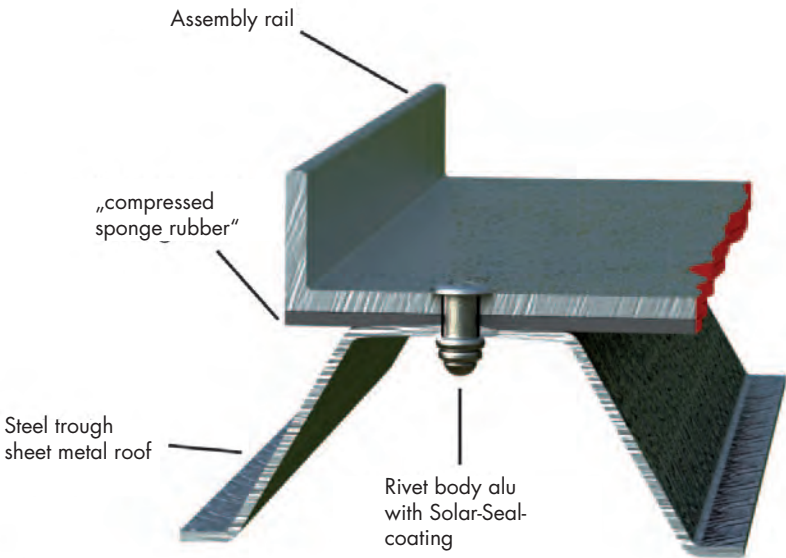
The application-specific **GESIPA®** connector... ...more than just a standard blind rivet

The basic features of the standard blind rivet are defined by various DIN EN ISO standards. These features primarily involve the geometric dimensions and mechanical properties. Other connector properties, such as the choice of material and surface coating, are defined very generally by the standards and are left up to the manufacturer. These specifications about the blind rivet features seriously limit the tolerances of the connection parameters and the feasible requirements. Blind rivets that comply to the DIN EN ISO standards are always designed for fixed parts.

Customer requirement	GESIPA® solution
Adaption to rubber, wood, plastic and other materials	Definition of max. / min. tightening value or clamping force
Water tightness	Material + stamping + coating
Accessibility problem	Extended nosepiece in combination with a rivet mandrel extension
Corrosion-resistance	Through organic and inorganic surfaces e.g. Zn, ZnNi, Delta Seal, stainless steel A2 and A4 or Monel
No noise	Monitored threaded mandrel protection
Tolerance compensation	Bore-hole diameter larger than DIN
High device and system availability	Device and connector matched to each other, GESIPA®-general system

The application-specific connector can be used for a larger number of tasks and satisfy higher requirements thanks to the targeted specification of the material, surfaces, geometric dimensions and in particular the functional properties. For example the following customer requirements can be satisfied:

- Elimination of access problems to rivet positions
- Adaptation to corrosion requirements to ensure higher resistance to environmental influences
- Production of splashwater protected connections whilst maintaining good mechanical properties
- Compensation of larger fluctuations in the part parameters
- Adaptation of the mechanical connection properties to the various joining materials



Typical requirements on setting process monitoring

Requirement	Possible monitoring criteria
Was a blind rivet processed in the application?	Monitoring of the spent mandrel Use of devices with surface contact trigger
Were all blind rivets processed for the application?	Monitoring and counting of the spent mandrels Use of devices with surface contact trigger
Was the right blind rivet processed?	Monitoring of the break force Use of devices with surface contact trigger
Was the defined connection quality achieved at this blind river point?	Monitoring the break force and path/time



Speak to our technical sales



We offer technical support in the field of fastening technology. This gives you an advantage in terms of efficiency and quality because you always use the correct fastener. We are also able to meet customer requirements thanks to our years of experience in the fastening technology field.

Blind rivet alu/steel standard

Rivet body: Alu AlMg 3
Mandrel: Steel, zinc-plated

(Dome head)



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
2.4 Hole Ø: 2.5 mm	2.4 x 4	0.5 - 1.5	630 0014	A 1.000
	2.4 x 6	1.5 - 3.5	630 0022	"
	2.4 x 8	3.5 - 5.0	630 0030	"
3 Hole Ø: 3.1 mm	3 x 4	0.5 - 1.5	630 0103	A 500
	3 x 5	1.5 - 2.5	630 0111	"
	3 x 6	2.5 - 3.5	630 0138	"
	3 x 7	3.5 - 4.5	630 0146	"
	3 x 8	4.5 - 5.0	630 0154	"
	3 x 10	5.0 - 7.0	630 0162	"
	3 x 12	7.0 - 9.0	630 0170	"
	3 x 14	9.0 - 11.0	630 0189	"
	3 x 16	11.0 - 13.0	630 0197	"
	3 x 18	13.0 - 15.0	630 0200	A 250
	3 x 20	15.0 - 17.0	630 0219	"
	3 x 25	17.0 - 22.0	630 0227	"
	3 x 30	22.0 - 26.0	630 0235	"
3.2 Hole Ø: 3.3 mm	3.2 x 4	0.5 - 1.5	630 0308	A 500
	3.2 x 6	1.5 - 3.5	630 0316	"
	3.2 x 8	3.5 - 5.0	630 0324	"
	3.2 x 10	5.0 - 7.0	630 0332	"
	3.2 x 12	7.0 - 9.0	630 0340	"
	3.2 x 14	9.0 - 11.0	630 0081	"
	3.2 x 16	11.0 - 13.0	630 0359	B 500
	3.2 x 18	13.0 - 15.0	630 0383	"
	3.2 x 20	15.0 - 17.0	630 0367	"
	3.2 x 25	17.0 - 22.0	630 0375	"

	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
4 Hole Ø: 4.1 mm	4 x 5	0.5 - 1.5	630 0405	A 500
	4 x 6	1.5 - 3.0	630 0413	"
	4 x 7	3.0 - 4.0	630 0421	"
	4 x 8	4.0 - 5.0	630 0448	"
	4 x 10	5.0 - 6.5	630 0456	"
	4 x 12	6.5 - 8.5	630 0464	B 500
	4 x 14	8.5 - 10.5	630 0472	"
	4 x 16	10.5 - 12.5	630 0480	"
	4 x 18	12.5 - 14.5	630 0499	"
	4 x 20	14.5 - 16.5	630 0502	"
	4 x 25	16.5 - 21.5	630 0529	"
	4 x 30	21.5 - 26.0	630 0545	B 250
	4 x 35	26.0 - 30.0	630 0561	"
	4 x 40	30.0 - 35.0	630 0596	"
4.8 Hole Ø: 4.9 mm	4.8 x 6	2.0 - 2.5	630 0707	B 500
	4.8 x 8	2.5 - 4.5	630 0715	"
	4.8 x 10	4.5 - 6.0	630 0723	"
	4.8 x 12	6.0 - 8.0	630 0731	"
	4.8 x 14	8.0 - 10.0	630 0758	"
	4.8 x 16	10.0 - 12.0	630 0766	"
	4.8 x 18	12.0 - 14.0	630 0774	"
	4.8 x 20	14.0 - 15.0	630 0782	B 250
	4.8 x 25	15.0 - 20.0	630 0804	"
	4.8 x 30	20.0 - 25.0	630 0820	A 100

Rivet Ø mm	Shear strength N (kp)		Tensile strength N (kp)		Mandrel Ø mm	Max. head Ø mm
2.4	350	(35)	450	(46)	1.5	5.0
3	700	(71)	900	(92)	1.8	6.5
3.2	720	(73)	950	(97)	1.95	6.5
4 x 5-25	1,400	(143)	2,000	(204)	2.1	8.0
4 x 30-40	850	(87)	1,000	(102)	2.1	8.0
4.8	1,800	(184)	2,700	(275)	2.7	9.5

■ Rivet body: AlMgSi

Test procedure according to DIN EN ISO 14589

Blind rivet alu/steel standard

Rivet body: Alu AlMg 3
Mandrel: Steel, zinc-plated

(Dome head)



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
5 Hole Ø: 5.1 mm	5 x 6	2.0 - 2.5	630 0901	B 500
	5 x 8	2.5 - 4.5	630 0928	"
	5 x 10	4.5 - 6.0	630 0936	"
	5 x 12	6.0 - 8.0	630 0944	"
	5 x 14	8.0 - 10.0	630 0952	"
	5 x 16	10.0 - 12.0	630 0960	"
	5 x 18	12.0 - 14.0	630 0979	"
	5 x 20	14.0 - 15.0	630 0987	B 250
	5 x 25	15.0 - 20.0	630 1002	"
	5 x 30	20.0 - 25.0	630 1029	A 100
	5 x 35	25.0 - 30.0	630 1045	"
	5 x 40	30.0 - 35.0	630 1061	"
	5 x 45	35.0 - 40.0	630 1096	B 100
	5 x 50	40.0 - 45.0	630 1126	"
	5 x 55	45.0 - 48.0	630 1142	"
	5 x 60	48.0 - 52.0	630 1169	"
	5 x 65	52.0 - 57.0	630 1185	"
	5 x 70	57.0 - 62.0	630 1207	"
	5 x 80	62.0 - 72.0	630 1223	"

	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
6 Hole Ø: 6.1 mm	6 x 8	2.0 - 3.0	630 1304	B 250
	6 x 10	3.0 - 5.0	630 1312	"
	6 x 12	5.0 - 7.0	630 1320	"
	6 x 16	7.0 - 11.0	630 1339	"
	6 x 18	11.0 - 13.0	630 1347	"
	6 x 20	13.0 - 15.0	630 1355	"
	6 x 25	15.0 - 20.0	630 1371	B 200
	6 x 30	20.0 - 24.0	630 1401	"
	6 x 35	24.0 - 29.0	630 1436	B 100
	6 x 40	29.0 - 34.0	630 1452	"
	6 x 50	34.0 - 44.0	630 1495	"
6.4 Hole Ø: 6.5 mm	6.4 x 12	2.0 - 6.0	630 1606	B 250
	6.4 x 16	6.0 - 10.0	630 1622	"
	6.4 x 18	10.0 - 12.0	630 1940	"
	6.4 x 20	12.0 - 14.0	630 1649	B 200
	6.4 x 25	14.0 - 18.0	630 1665	"
	6.4 x 30	18.0 - 23.0	630 1681	B 100

Rivet Ø mm	Shear strength		Tensile strength		Mandrel Ø mm	Max. head Ø mm
	N	(kp)	N	(kp)		
5 x 6 - 35	2,000	(204)	2,800	(285)	2.7	9.5
5 x 40 - 80	1,400	(143)	2,000	(204)	2.7	9.5
6	3,100	(316)	3,800	(388)	3.2	12.0
6.4	3,400	(347)	4,600	(469)	3.65	13.0

Test procedure according to DIN EN ISO 14589

Blind rivet alu/steel countersunk

Rivet body: Alu AIMg 3
Mandrel: Steel, zinc-plated

(120°)

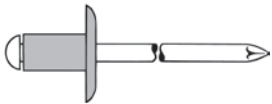


	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
3 Hole Ø: 3.1 mm	3 x 4	1.0 - 1.5	630 2106	A 500
	3 x 6	1.5 - 3.5	630 2130	"
	3 x 8	3.5 - 5.0	630 2157	"
	3 x 10	5.0 - 7.0	630 2165	"
	3 x 12	7.0 - 9.0	630 2173	"
	3 x 16	9.0 - 13.0	630 2181	"
4 Hole Ø: 4.1 mm	4 x 6	1.5 - 3.0	630 2416	A 500
	4 x 8	3.0 - 5.0	630 2440	"
	4 x 10	5.0 - 6.5	630 2459	"
	4 x 12	6.5 - 8.5	630 2467	B 500
	4 x 16	8.5 - 12.5	630 2483	"
	4 x 18	12.5 - 14.5	630 2378	"
	4 x 20	14.5 - 16.5	630 2505	"

	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
5 Hole Ø: 5.1 mm	5 x 8	2.0 - 4.5	630 2920	B 500
	5 x 10	4.5 - 6.0	630 2939	"
	5 x 12	6.0 - 8.0	630 2947	"
	5 x 16	8.0 - 12.0	630 2963	"
	5 x 18	12.0 - 14.0	630 2793	"
	5 x 20	14.0 - 15.0	630 2971	B 250
	5 x 25	15.0 - 20.0	630 3005	"
	5 x 30	20.0 - 25.0	630 3021	A 100
	5 x 35	25.0 - 30.0	630 3048	"

Blind rivet alu/steel large flange

Rivet body: Alu AIMg 3
Mandrel: Steel, zinc-plated



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
3.2 - K 9.5 Hole Ø: 3.3 mm	3.2 x 6	1.5 - 3.5	630 3315	A 500
	3.2 x 8	3.5 - 5.0	630 3323	"
	3.2 x 10	5.0 - 7.0	630 3331	"
	3.2 x 12	7.0 - 9.0	630 3358	"
	3.2 x 16	9.0 - 13.0	630 3366	B 500
4 - K 12 Hole Ø: 4.1 mm	4 x 6	1.5 - 3.0	630 3412	B 500
	4 x 8	3.0 - 5.0	630 3447	"
	4 x 10	5.0 - 6.5	630 3455	"
	4 x 12	6.5 - 8.5	630 3463	"
	4 x 16	8.5 - 12.5	630 3471	"
	4 x 20	12.5 - 16.5	630 3501	B 250
4.8 - K 16 Hole Ø: 4.9 mm	4.8 x 8	2.5 - 4.5	630 3714	B 250
	4.8 x 10	4.5 - 6.0	630 3722	"
	4.8 x 12	6.0 - 8.0	630 3730	"
	4.8 x 16	8.0 - 12.0	630 3765	"
	4.8 x 20	12.0 - 15.0	630 3781	"
	4.8 x 25	15.0 - 20.0	630 3803	"

	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
5 - K 11 Hole Ø: 5.1 mm Ü	5 x 8	2.5 - 4.5	630 3927	B 500
	5 x 10	4.5 - 6.0	630 3935	"
	5 x 12	6.0 - 8.0	630 3943	"
	5 x 14	8.0 - 10.0	630 3897	"
	5 x 16	10.0 - 12.0	630 3951	"
	5 x 18	12.0 - 14.0	630 3838	B 250
	5 x 20	14.0 - 15.0	630 3986	"
	5 x 25	15.0 - 20.0	630 4001	"
	5 x 30	20.0 - 25.0	630 4028	B 100
5 - K 14 Hole Ø: 5.1 mm Ü	5 x 8	2.5 - 4.5	630 4036	B 250
	5 x 10	4.5 - 6.0	630 4044	"
	5 x 12	6.0 - 8.0	630 4052	"
	5 x 14	8.0 - 10.0	630 4060	"
	5 x 16	10.0 - 12.0	630 4079	"
	5 x 18	12.0 - 14.0	630 4087	"
	5 x 20	14.0 - 15.0	630 4095	"
	5 x 25	15.0 - 20.0	630 4117	"
	5 x 30	20.0 - 25.0	630 4133	B 100

Ü: DIBt approval No. Z-14.1-4
Please refer to approval documents

Blind rivet alu/stainless steel standard

Rivet body: Alu AIMg 3
Mandrel: Stainless steel A2 – no. 1.4541

(Dome head)



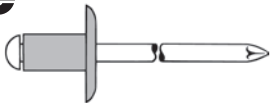
	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
3 Hole Ø: 3.1 mm	3 x 4	0.5 - 1.5	632 0104	A 500
	3 x 6	1.5 - 3.5	632 0112	"
	3 x 8	3.5 - 5.0	632 0155	"
	3 x 10	5.0 - 7.0	632 0163	"
	3 x 12	7.0 - 9.0	632 0171	"
	3 x 16	9.0 - 13.0	632 0198	"
3.2 Hole Ø: 3.3 mm	3.2 x 4	0.5 - 1.5	632 0328	A 500
	3.2 x 6	1.5 - 3.5	632 0330	"
	3.2 x 8	3.5 - 5.0	632 0235	"
	3.2 x 10	5.0 - 7.0	632 0238	"
	3.2 x 12	7.0 - 9.0	632 0240	"
	3.2 x 14	9.0 - 11.0	632 0332	"
	3.2 x 16	11.0 - 13.0	632 0335	B 500
	3.2 x 18	13.0 - 15.0	632 0340	"
	3.2 x 20	15.0 - 17.0	632 0345	"
	3.2 x 25	17.0 - 22.0	632 0348	"
4 Hole Ø: 4.1 mm	4 x 6	1.5 - 3.0	632 0414	A 500
	4 x 8	3.0 - 5.0	632 0449	"
	4 x 10	5.0 - 6.5	632 0457	"
	4 x 12	6.5 - 8.5	632 0465	B 500
	4 x 14	8.5 - 10.5	632 0279	"
	4 x 16	10.5 - 12.5	632 0481	"
	4 x 18	12.5 - 14.5	632 0473	"
	4 x 20	14.5 - 16.5	632 0503	"
	4 x 25	16.5 - 21.5	632 0511	"

	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
4.8 Hole Ø: 4.9 mm	4.8 x 6	2.0 - 2.5	632 0199	B 500
	4.8 x 8	2.5 - 4.5	632 0200	"
	4.8 x 10	4.5 - 6.0	632 0202	"
	4.8 x 12	6.0 - 8.0	632 0209	"
	4.8 x 14	8.0 - 10.0	632 0212	"
	4.8 x 16	10.0 - 12.0	632 0215	"
	4.8 x 18	12.0 - 14.0	632 0218	"
	4.8 x 20	14.0 - 15.0	632 0222	B 250
	4.8 x 25	15.0 - 20.0	632 0225	"
5 Hole Ø: 5.1 mm	5 x 8	2.5 - 4.5	632 0929	B 500
	5 x 10	4.5 - 6.0	632 0937	"
	5 x 12	6.0 - 8.0	632 0945	"
	5 x 14	8.0 - 10.0	632 0953	"
	5 x 16	10.0 - 12.0	632 0961	"
	5 x 18	12.0 - 14.0	632 0988	"
	5 x 20	14.0 - 15.0	632 0996	B 250
	5 x 25	15.0 - 20.0	632 1003	"
	5 x 30	20.0 - 25.0	632 1011	A 100
	5 x 35	25.0 - 30.0	632 1046	"
	5 x 40	30.0 - 35.0	632 1062	"

Material surcharge will be added at a daily rate

Blind rivet alu/stainless steel large flange

Rivet body: Alu AIMg 3
Mandrel: Stainless steel A2 – no. 1.4541



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
5 - K 11 Hole Ø: 5.1 mm Ü	5 x 8	2.5 - 4.5	632 3928	B 500
	5 x 10	4.5 - 6.0	632 3936	"
	5 x 12	6.0 - 8.0	632 3944	"
	5 x 14	8.0 - 10.0	632 3847	"
	5 x 16	10.0 - 12.0	632 3952	"
	5 x 18	12.0 - 14.0	632 3855	B 250
	5 x 20	14.0 - 15.0	632 3987	"
	5 x 25	15.0 - 20.0	632 4002	"
	5 x 30	20.0 - 25.0	632 4029	B 100

Ü: DIBt approval No. Z-14.1-4
Please refer to approval documents

	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
5 - K 14 Hole Ø: 5.1 mm Ü	5 x 8	2.5 - 4.5	632 4037	B 250
	5 x 10	4.5 - 6.0	632 4045	"
	5 x 12	6.0 - 8.0	632 4053	"
	5 x 14	8.0 - 10.0	632 4150	"
	5 x 16	10.0 - 12.0	632 4061	"
	5 x 18	12.0 - 14.0	632 4169	"
	5 x 20	14.0 - 15.0	632 4096	"
	5 x 25	15.0 - 20.0	632 4118	"
	5 x 30	20.0 - 25.0	632 4134	B 100

Material surcharge will be added at a daily rate

Tabl valid for pages 18 and 19:

Rivet Ø mm	Shear strength N	(kp)	Tensile strength N	(kp)	Mandrel Ø mm	Max. head Ø Alu/steel mm	Max. head Ø Alu / Nirosta mm
3	700	(71)	900	(91)	1.8	6.0	6.5
4	1,400	(143)	2,000	(204)	2.1	7.5	8.0
5	2,000	(204)	2,800	(285)	2.7	9.0	9.5
3.2 K 9.5 alu/steel only	720	(73)	950	(97)	1.95	9.5	—
4 K 12 alu/steel only	1,400	(143)	2,000	(204)	2.1	12.0	—
4.8 K 16 alu/steel only	1,800	(184)	2,700	(275)	2.7	16.0	—
5 K 11	2,000	(204)	2,800	(285)	2.7	11.0	11.0
5 K 14	2,000	(204)	2,800	(285)	2.7	14.0	14.0

Test procedure according to DIN EN ISO 14589

Blind rivet alu / alu standard

Rivet body: Alu AlMg 2.5
Mandrel: Alu AlMg 5

(Dome head)

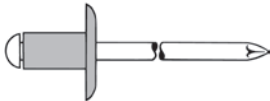


	Rivet body D _i x L mm	Grip range mm	Part no.	Quantity per box
3.2 Hole Ø: 3.3 mm	3.2 x 6.1	0.8 - 3.2	647 0017	A 500
	3.2 x 7.6	3.2 - 4.8	647 0033	"
	3.2 x 9.2	4.8 - 6.4	647 0076	"
	3.2 x 12.3	6.4 - 9.5	647 0114	"
	3.2 x 15.5	9.5 - 12.7	647 0130	B 500
4 Hole Ø: 4.1 mm	4 x 6.6	1.5 - 3.2	647 0238	B 500
	4 x 9.8	3.2 - 6.4	647 0254	"
	4 x 12.9	6.4 - 9.5	647 0297	"
	4 x 16.1	9.5 - 12.7	647 0335	"

	Rivet body D _i x L mm	Grip range mm	Part no.	Quantity per box
4.8 Hole Ø: 4.9 mm	4.8 x 7.2	1.5 - 3.2	647 0416	B 500
	4.8 x 10.3	3.2 - 6.4	647 0432	"
	4.8 x 13.5	6.4 - 9.5	647 0475	"
	4.8 x 16.7	9.5 - 12.7	647 0513	"
	4.8 x 19.9	12.7 - 15.9	647 0556	"
	4.8 x 23.0	15.9 - 19.0	647 0572	B 250
	6.4 x 12.0	1.5 - 6.4	647 0610	B 250
6.4 Hole Ø: 6.5 mm	6.4 x 14.9	6.4 - 9.5	647 0637	"
	6.4 x 18.1	9.5 - 12.7	647 0653	A 100
	6.4 x 24.4	12.7 - 19.0	647 0688	"

Blind rivet alu / alu large flange

Rivet body: Alu AlMg 2.5
Mandrel: Alu AlMg 5



	Rivet body D _i x L mm	Grip range mm	Part no.	Quantity per box
3.2 - K 9.5 Hole Ø: 3.3 mm	3.2 x 6.1	0.8 - 3.2	647 4217	A 500
	3.2 x 9.2	3.2 - 6.4	647 4233	"
	3.2 x 12.3	6.4 - 9.5	647 4268	B 500

	Rivet body D _i x L mm	Grip range mm	Part no.	Quantity per box
4.8 - K 16 Hole Ø: 4.9 mm	4.8 x 10.3	1.5 - 6.4	647 4314	B 250
	4.8 x 13.5	6.4 - 9.5	647 4330	"
	4.8 x 16.7	9.5 - 12.7	647 4357	"
	4.8 x 19.9	12.7 - 15.9	647 4373	"
	4.8 x 23.0	15.9 - 19.0	647 4381	"

Rivet Ø mm	Shear strength N	(kp)	Tensile strength N	(kp)	Mandrel Ø mm	head Ø mm
3.2	530	(54)	660	(67)	1.95	6.5
4	840	(85)	1,020	(103)	2.45	8.0
4.8	1,150	(117)	1,420	(144)	2.9	9.5
6.4	2,040	(207)	2,490	(253)	3.85	12.9
3.2 K 9.5	725	(74)	930	(95)	1.95	9.5
4.8 K 16	1,520	(155)	1,960	(200)	2.9	16.0

Test procedure according to DIN EN ISO 14589

Blind rivet steel/steel standard

Rivet body: Steel, zinc-plated
Mandrel: Steel, zinc-plated

(Dome head)



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
3 Hole Ø: 3.1 mm	3 x 5	0.5 - 2.0	631 0117	A 500
	3 x 6	2.0 - 3.0	631 0133	"
	3 x 8	3.0 - 5.0	631 0141	"
	3 x 10	5.0 - 6.5	631 0168	"
	3 x 12	6.5 - 8.5	631 0176	"
	3 x 16	8.5 - 12.5	631 0192	B 500
	3 x 18	12.5 - 14.5	631 0206	"
	3 x 20	14.5 - 16.5	631 0214	"
3.2 Hole Ø: 3.3 mm	3.2 x 6	0.5 - 3.0	631 0303	A 500
	3.2 x 8	3.0 - 5.0	631 0311	"
	3.2 x 10	5.0 - 6.5	631 0338	"
	3.2 x 12	6.5 - 8.5	631 0346	"
	3.2 x 16	8.5 - 12.5	631 0354	B 500
	3.2 x 18	12.5 - 14.5	631 0249	"
	3.2 x 20	14.5 - 16.5	631 0362	"
4 Hole Ø: 4.1 mm	4 x 6	0.5 - 2.5	631 0419	A 500
	4 x 8	2.5 - 4.5	631 0443	"
	4 x 10	4.5 - 6.5	631 0451	B 500
	4 x 12	6.5 - 8.5	631 0478	"
	4 x 16	8.5 - 12.0	631 0486	"
	4 x 18	12.0 - 14.0	631 0516	"
	4 x 20	14.0 - 16.0	631 0508	"
4.8 Hole Ø: 4.9 mm	4.8 x 8	2.0 - 4.0	631 0710	B 500
	4.8 x 10	4.0 - 6.0	631 0729	"
	4.8 x 12	6.0 - 8.0	631 0737	"
	4.8 x 16	8.0 - 11.0	631 0761	"
	4.8 x 20	11.0 - 15.0	631 0788	B 250
	4.8 x 25	15.0 - 20.0	631 0818	"

	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
5 Hole Ø: 5.1 mm	5 x 8	2.0 - 4.0	631 0915	B 500
	5 x 10	4.0 - 6.0	631 0923	"
	5 x 12	6.0 - 8.0	631 0931	"
	5 x 14	8.0 - 9.5	631 0958	"
	5 x 16	9.5 - 11.0	631 0966	"
	5 x 18	11.0 - 13.0	631 0974	"
	5 x 20	13.0 - 15.0	631 0982	B 250
	5 x 25	15.0 - 20.0	631 1008	"
	5 x 30	20.0 - 25.0	631 1024	A 100
	5 x 35	25.0 - 30.0	631 1040	"
	5 x 40	30.0 - 34.0	631 1067	"
	5 x 45	34.0 - 39.0	631 1091	"
6 Hole Ø: 6.1 mm	6 x 10	2.5 - 4.5	631 1202	B 250
	6 x 12	4.5 - 6.5	631 1210	"
	6 x 14	6.5 - 8.5	631 1229	"
	6 x 16	8.5 - 10.5	631 1237	"
	6 x 20	10.5 - 14.5	631 1245	"
6.4 Hole Ø: 6.5 mm	6.4 x 8	1.0 - 3.0	631 1598	B 250
	6.4 x 12	3.0 - 6.0	631 1601	"
	6.4 x 16	6.0 - 9.0	631 1628	"
	6.4 x 18	9.0 - 11.0	631 1563	B 200
	6.4 x 20	11.0 - 13.0	631 1644	"
	6.4 x 25	13.0 - 17.0	631 1660	"

Rivet Ø mm	Shear strength		Tensile strength		Mandrel Ø mm	Max. head Ø mm
	N	(kp)	N	(kp)		
3	1,000	(102)	1,300	(133)	1.95	6.5
3.2	1,200	(122)	1,500	(153)	2.0	6.5
4	2,000	(204)	2,500	(255)	2.5	8.0
4.8	2,900	(296)	4,000	(408)	3.0	9.5
5	3,100	(316)	4,400	(449)	3.0	9.5
6	4,400	(449)	6,000	(612)	3.65	12.0
6.4	4,900	(500)	6,800	(694)	3.85	13.0

Test procedure according to DIN EN ISO 14589

Blind rivet steel/steel countersunk

Rivet body: Steel, zinc-plated
Mandrel: Steel, zinc-plated

(120°)



	Rivet body $D_1 \times L$ mm	Grip range mm	Part no.	Quantity per box
3 Hole Ø: 3.1 mm	3 x 6	1.0 - 3.0	631 2136	A 500
	3 x 8	3.0 - 5.0	631 2152	"
	3 x 10	5.0 - 6.5	631 2160	"
	3 x 12	6.5 - 8.5	631 2179	"
4 Hole Ø: 4.1 mm	4 x 6	1.5 - 2.5	631 2411	A 500
	4 x 8	2.5 - 4.5	631 2446	"
	4 x 10	4.5 - 6.5	631 2454	B 500
	4 x 12	6.5 - 8.5	631 2462	"
	4 x 16	8.5 - 12.0	631 2489	"
	4 x 20	12.0 - 16.0	631 2500	"

	Rivet body $D_1 \times L$ mm	Grip range mm	Part no.	Quantity per box
5 Hole Ø: 5.1 mm	5 x 8	2.0 - 4.0	631 2926	B 500
	5 x 10	4.0 - 6.0	631 2934	"
	5 x 12	6.0 - 8.0	631 2942	"
	5 x 14	8.0 - 9.5	631 2810	"
	5 x 16	9.5 - 11.0	631 2969	"
	5 x 20	11.0 - 15.0	631 2977	B 250
	5 x 25	15.0 - 20.0	631 3000	"

Blind rivet copper/steel standard

Rivet body: Copper
Mandrel: Steel, zinc-plated

(Dome head)



	Rivet body $D_1 \times L$ mm	Grip range mm	Part no.	Quantity per box
3 Hole Ø: 3.1 mm	3 x 4	0.5 - 1.5	634 0105	A 500
	3 x 6	1.5 - 3.0	634 0121	"
	3 x 8	3.0 - 5.0	634 0156	"
	3 x 10	5.0 - 7.0	634 0164	"
	3 x 12	7.0 - 9.0	634 0172	"

	Rivet body $D_1 \times L$ mm	Grip range mm	Part no.	Quantity per box
4 Hole Ø: 4.1 mm	4 x 6	0.5 - 3.5	634 0415	A 500
	4 x 8	3.5 - 4.5	634 0431	"
	4 x 10	4.5 - 6.5	634 0458	"
	4 x 12	6.5 - 8.5	634 0466	"

Blind rivet copper/bronze standard

Rivet body: Copper
Mandrel: Bronze

(Dome head)



	Rivet body $D_1 \times L$ mm	Grip range mm	Part no.	Quantity per box
3 Hole Ø: 3.1 mm	3 x 4	0.5 - 1.5	635 0100	A 500
	3 x 6	1.5 - 3.0	635 0135	"
	3 x 8	3.0 - 5.0	635 0151	"
	3 x 10	5.0 - 7.0	635 0178	"
	3 x 12	7.0 - 9.0	635 0186	"

	Rivet body $D_1 \times L$ mm	Grip range mm	Part no.	Quantity per box
4 Hole Ø: 4.1 mm	4 x 6	0.5 - 3.5	635 0410	A 500
	4 x 8	3.5 - 4.5	635 0445	"
	4 x 10	4.5 - 6.5	635 0453	"
	4 x 12	6.5 - 8.5	635 0461	"

Steel/steel countersunk				
Rivet Ø mm	Shear strength N (kp)	Tensile strength N (kp)	Mandrel Ø mm	Max. head Ø mm
3	1,000 (102)	1,300 (133)	1.95	6.0
4	2,000 (204)	2,500 (255)	2.5	7.5
5	3,100 (316)	4,400 (449)	3.0	9.0

Copper/steel and copper/bronze				
Rivet Ø mm	Shear strength N (kp)	Tensile strength N (kp)	Mandrel Ø mm	Max. head Ø mm
3	800 (82)	1,000 (102)	1.8	6.5
4	1,500 (163)	2,200 (225)	2.1	8.0

Test procedure according to DIN EN ISO 14589

Blind rivet A2-stainless steel (Dome head) standard

Rivet body: Stainless steel A2 – no. 1.4567
Mandrel: Stainless steel A2 – no. 1.4541



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
3 Hole Ø: 3.1 mm	3 x 6	1.0 - 3.0	633 0134	A 500
	3 x 8	3.0 - 5.0	633 0150	"
	3 x 10	5.0 - 6.5	633 0169	"
	3 x 12	6.5 - 8.5	633 0177	"
	3 x 14	8.5 - 10.5	633 0185	"
	3 x 16	10.5 - 12.5	633 0193	"
3.2 Hole Ø: 3.3 mm	3.2 x 6	1.0 - 3.0	633 0312	A 500
	3.2 x 8	3.0 - 5.0	633 0320	"
	3.2 x 10	5.0 - 6.5	633 0339	"
	3.2 x 12	6.5 - 8.5	633 0347	"
	3.2 x 14	8.5 - 10.5	633 0363	"
	3.2 x 16	10.5 - 12.5	633 0355	"
4 Hole Ø: 4.1 mm Ü	4 x 6	1.0 - 2.5	633 0401	A 500
	4 x 8	2.5 - 4.5	633 0444	"
	4 x 10	4.5 - 6.5	633 0452	B 500
	4 x 12	6.5 - 8.5	633 0460	"
	4 x 14	8.5 - 10.5	633 0533	"
	4 x 16	10.5 - 12.0	633 0487	"
	4 x 20	12.0 - 16.0	633 0509	"
	4 x 25	16.0 - 21.0	633 0525	"

Ü: DIBt approval No. Z-14.1-4
Please refer to approval documents

	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
4.8 Hole Ø: 4.9 mm	4.8 x 8	2.0 - 4.0	633 0614	B 500
	4.8 x 10	4.0 - 6.0	633 0622	"
	4.8 x 12	6.0 - 8.0	633 0630	"
	4.8 x 14	8.0 - 9.5	633 0649	"
	4.8 x 16	9.5 - 11.0	633 0657	"
	4.8 x 20	11.0 - 15.0	633 0673	B 250
	4.8 x 25	15.0 - 20.0	633 0680	B 250
	4.8 x 30	20.0 - 25.0	633 0690	A 100
	4.8 x 35	25.0 - 30.0	633 0700	"
5 Hole Ø: 5.1 mm	5 x 8	2.0 - 4.0	633 0924	B 500
	5 x 10	4.0 - 6.0	633 0932	"
	5 x 12	6.0 - 8.0	633 0940	"
	5 x 14	8.0 - 9.5	633 0959	"
	5 x 16	9.5 - 11.0	633 0967	"
	5 x 20	11.0 - 15.0	633 0983	B 250
	5 x 25	15.0 - 20.0	633 1009	"
	5 x 30	20.0 - 25.0	633 1025	A 100
	5 x 35	25.0 - 30.0	633 1041	"
	5 x 40	30.0 - 34.0	633 1033	"

Material surcharge will be added at a daily rate

Blind rivet A2 stainless steel countersunk

Rivet body: Stainless steel A2 – no. 1.4567
Mandrel: Stainless steel A2 – no. 1.4541



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
3 Hole Ø: 3.1 mm	3 x 6	1.5 – 3.0	633 2013	A 500
	3 x 8	3.0 – 5.0	633 2024	"
	3 x 10	5.0 – 6.5	633 2035	"
	3 x 12	6.5 – 8.5	633 2046	"
3.2 Hole Ø: 3.3 mm	3.2 x 6	1.5 – 3.0	633 2114	A 500
	3.2 x 8	3.0 – 5.0	633 2125	"
	3.2 x 10	5.0 – 6.5	633 2136	"
	3.2 x 12	6.5 – 8.5	633 2147	"
4 Hole Ø: 4.1 mm	4 x 8	1.5 – 4.5	633 2201	A 500
	4 x 10	4.5 – 6.5	633 2213	B 500
	4 x 12	6.5 – 8.5	633 2225	"

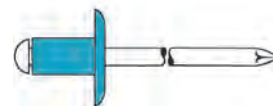
	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
4.8 Hole Ø: 4.9 mm	4.8 x 8	2.5 – 4.0	633 2323	B 500
	4.8 x 10	4.0 – 6.0	633 2334	"
	4.8 x 12	6.0 – 8.0	633 2335	"
5 Hole Ø: 5.1 mm	5 x 8	2.0 – 4.0	633 2508	B 500
	5 x 10	4.0 – 6.0	633 2510	"
	5 x 12	6.5 – 8.5	633 2512	"

Material surcharge will be added at a daily rate

The information on shear and tensile strength, rivet pin diameters and the maximum setting head diameters can be found on page 25.

Blind rivet A2 stainless steel large flange

Rivet body: Stainless steel A2 – no. 1.4567
Mandrel: Stainless steel A2 – no. 1.4541



	Rivet body D _i x L mm	Grip range mm	Part no.	Quantity per box
4.8 - K 15 Hole Ø: 5.1 mm	4.8 x 14	8.0 - 9.5	633 0800	B 250
	4.8 x 16	9.5 - 11.0	633 0825	"
	4.8 x 20	11.0 - 15.0	633 0850	"
	4.8 x 25	15.0 - 20.0	633 0870	B 200
	4.8 x 30	20.0 - 25.0	633 0880	B 100
	4.8 x 35	25.0 - 30.0	633 0890	"

NEW

Material surcharge will be added at a daily rate

**Blind rivet A4-stainless steel
standard**

Rivet body: Stainless steel A4 — no. 1.4578
Mandrel: Stainless steel A4 — no. 1.4571

Rivet body: Stainless steel A4 – no. 1.4578
Mandrel: Stainless steel A4 – no. 1.4571



(Dome head)

	Rivet body D _i x L mm	Grip range mm	Part no.	Quantity per box
3 Hole Ø: 3.1 mm	3 x 6	1.0 - 3.0	648 0004	A 500
	3 x 8	3.0 - 5.0	648 0012	"
	3 x 10	5.0 - 6.5	648 0020	"
	3 x 12	6.5 - 8.5	648 0039	"
3.2 Hole Ø: 3.3 mm	3.2 x 6	1.0 - 3.0	648 0005	A 500
	3.2 x 8	3.0 - 5.0	648 0016	"
	3.2 x 10	5.0 - 6.5	648 0027	"
	3.2 x 12	6.5 - 8.5	648 0049	"
4 Hole Ø: 4.1 mm	4 x 6	1.0 - 2.5	648 0047	A 500
	4 x 8	2.5 - 4.5	648 0055	"
	4 x 10	4.5 - 6.5	648 0063	B 500
	4 x 12	6.5 - 8.5	648 0071	"
	4 x 14	8.5 - 10.5	648 0076	"
	4 x 16	8.5 - 12.0	648 0098	"

	Rivet body D _i x L mm	Grip range mm	Part no.	Quantity per box
4.8 Hole Ø: 4.9 mm 	4.8 x 6	1.5 - 3.0	648 0102	B 500
	4.8 x 8	3.0 - 4.5	648 0113	"
	4.8 x 10	4.5 - 6.0	648 0124	"
	4.8 x 12	6.0 - 7.5	648 0135	"
	4.8 x 14	8.0 - 9.5	648 0125	"
	4.8 x 16	9.5 - 11.0	648 0126	"
	4.8 x 20	11.0 - 15.0	648 0127	B 250
	4.8 x 25	15.0 - 20.0	648 0129	"
	4.8 x 30	20.0 - 25.0	648 0130	A 100
	4.8 x 35	25.0 - 30.0	648 0131	"
5 Hole Ø: 5.1 mm 	5 x 8	2.0 - 4.0	648 0128	B 500
	5 x 10	4.0 - 6.0	648 0136	"
	5 x 12	6.0 - 8.0	648 0144	"
	5 x 14	8.0 - 9.5	648 0146	"
	5 x 16	8.0 - 11.0	648 0152	"
	5 x 20	11.0 - 15.0	648 0160	B 250
	5 x 25	15.0 - 20.0	648 0163	"
	5 x 30	25.0 - 30.0	648 0168	A 100
		5 x 35	25.0 - 30.0	648 0170

Material surcharge will be added at a daily rate

Blind rivet A4/ stainless steel large flange

Rivet body: Stainless steel A4 – no. 1.4578
Mandrel: Stainless steel A4 – no. 1.4571

	Rivet body D _i x L mm	Grip range mm	Part no.	Quantity per box
4.8 - K 15 Hole Ø: 5.1 mm	4.8 x 14	8.0 - 9.5	648 0202	B 250
	4.8 x 16	9.5 - 11.0	648 0210	"
	4.8 x 20	11.0 - 15.0	648 0215	"
	4.8 x 25	15.0 - 20.0	648 0220	B 200
	4.8 x 30	20.0 - 25.0	648 0225	B 100
	4.8 x 35	25.0 - 30.0	648 0230	"

NEW



Material surcharge will be added at a daily rate

Blind rivet Stinox standard

Rivet body: Stainless steel A2 – no. 1.4567
Mandrel: Steel, zinc-plated

(Dome head)



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
3 Hole Ø: 3.1 mm	3 x 6	1.0 - 3.0	636 0130	A 500
	3 x 8	3.0 - 5.0	636 0157	"
	3 x 10	5.0 - 6.5	636 0165	"
3.2 Hole Ø: 3.3 mm	3.2 x 6	1.0 - 3.0	636 0319	A 500
	3.2 x 8	3.0 - 5.0	636 0327	"
	3.2 x 10	5.0 - 6.5	636 0335	"

Material surcharge will be added at a daily rate

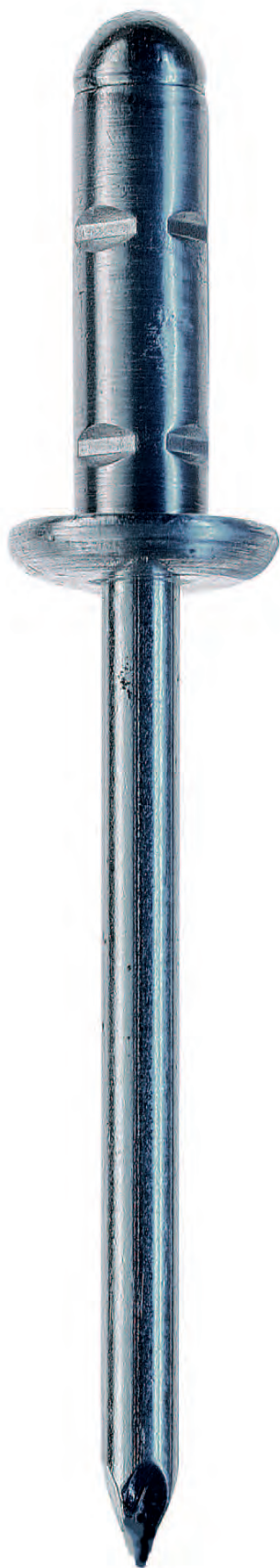
	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
4 Hole Ø: 4.1 mm	4 x 6	1.0 - 2.5	636 0416	A 500
	4 x 8	2.5 - 4.5	636 0440	"
	4 x 10	4.5 - 6.5	636 0459	B 500
	4 x 12	6.5 - 8.5	636 0467	"
	4 x 14	8.5 - 10.5	636 0473	"
	4 x 16	8.5 - 12.0	636 0483	"
4.8 Hole Ø: 4.9 mm	4.8 x 8	2.0 - 4.0	636 0621	B 500
	4.8 x 10	4.0 - 6.0	636 0634	"
	4.8 x 12	6.0 - 8.0	636 0648	"
5 Hole Ø: 5.1 mm	5 x 8	2.0 - 4.0	636 0920	B 500
	5 x 10	4.0 - 6.0	636 0939	"
	5 x 12	6.0 - 8.0	636 0947	"

A2 stainless steel / A4 stainless steel/ Stinox Standard / A2 stainless steel countersunk				
Rivet Ø	Shear strength		Tensile strength	
mm	N	(kp)	N	(kp)
3	1,600	(163)	2,000	(205)
3.2	1,900	(275)	2,500	(255)
4	2,700	(275)	3,600	(367)
4 x 20 - 25	3,800	(385)	4,500	(479)
4.8	4,000	(408)	5,000	(510)
5	4,700	(479)	5,900	(602)
5 x 40	5,900	(602)	7,200	(735)

A2 stainless steel large flange/ A4 stainless steel large flange				
Rivet Ø	Shear strength		Tensile strength	
mm	N	(kp)	N	(kp)
4.8	4,000	(408)	5,000	(510)

Test procedure according to DIN EN ISO 14589

PolyGrip® – A most versatile small fellow



The GESIPA® PolyGrip® range of blind rivets, originally meant to be only a multigrip rivet has meanwhile shown other multiple talents. This makes it a favourite choice for difficult and demanding applications in industrial environment. Whether in aluminium, steel or stainless steel, outdoor or indoor, with hard or soft application materials, critical hole diameters and tolerances, when nothing seems to work properly, GESIPA® PolyGrip® will usually save the day.

Main features

A wide grip range: A single PolyGrip® blind rivet can replace up to five different dimensions of DIN standard blind rivets.

Outstanding hole filling capability: The rivet body expands radially during the setting process and compensates hole tolerances, centering deviations and differences in diameter, thus always building up a playfree and tight joint.

Safe rest mandrel locking: PolyGrip® blind rivets neither generate rattling noises due to free moving rest mandrels nor do they allow the risk of loss of the rest mandrel.

Splash waterproof are the PolyGrip® blind rivets under certain conditions too. Hole filling and rest mandrel locking make of them a real alternative to closed end rivets when it is essential to prevent water flowing through the whole joint and not only through the rivet body.

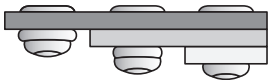
A large closing head: for a high tensile and unbuttoning resistance

High flexibility in design

The setting process of PolyGrip® blind rivets is fully predictable and the shaft deformation can be programmed for every special application through intelligent locating of the shaft grooves. This allows to be reliably predetermined the clamp force, radial shaft expansion and closing head build-up.

The production of PolyGrip® blind rivets is one of the core specialities of the GESIPA® factory in Thal, Thuringia.





Alu/steel
Standard

(Dome head)

Rivet body: AlMg 2.5
Mandrel: Steel, zinc-plated

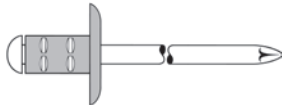


	Rivet body D _i x L mm	Grip range mm	Part no.	Quantity per box
3.2 Hole Ø: 3.3 mm	3.2 x 8	0.5 - 5.0	670 0012	P 1.000
	3.2 x 9.5	1.5 - 6.5	670 0020	"
	3.2 x 11	3.0 - 8.0	670 0039	"
4.0 Hole Ø: 4.1 mm	4 x 10	0.5 - 6.5	670 0071	P 500
	4 x 13	3.5 - 9.5	670 0098	"
	4 x 17	7.0 - 13.0	670 0101	"
4.8 Hole Ø: 4.9 mm Ü	4.8 x 10	0.5 - 6.5	670 0144	P 500
	4.8 x 15	4.5 - 11.0	670 0152	"
	4.8 x 17	6.5 - 13.0	670 0160	"
	4.8 x 25	11.0 - 19.5	670 0217	P 250
	4.8 x 30	16.0 - 24.0	670 0225	"
6.4 Hole Ø: 6.5 mm	6.4 x 15	1.5 - 9.0	670 0268	P 250
	6.4 x 20	6.0 - 14.0	670 0276	"
	6.4 x 25	10.0 - 18.0	670 0284	"

Ü: DIBt approval No. Z-14.1-4
Please refer to approval documents

Alu/steel
Large flange

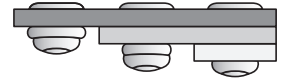
Rivet body: AlMg 2.5
Mandrel: Steel, zinc-plated



	Rivet body D _i x L mm	Grip range mm	Part no.	Quantity per box
3.2 - K 9.5 Hole Ø: 3.3 mm	3.2 x 8	0.5 - 5.0	670 0047	P 1.000
	3.2 x 9.5	1.5 - 6.5	670 0055	"
	3.2 x 11	3.0 - 8.0	670 0063	"
4.0 - K 12 Hole Ø: 4.1 mm	4 x 10	0.5 - 6.5	670 0128	P 500
	4 x 13	3.5 - 9.5	670 0136	"
	4 x 17	7.0 - 13.0	670 0209	"
4.8 - K 16 Hole Ø: 4.9 mm	4.8 x 10	0.5 - 6.5	670 0179	P 250
	4.8 x 15	4.5 - 11.0	670 0187	"
	4.8 x 17	6.5 - 13.0	670 0195	"
	4.8 x 25	11.0 - 19.5	670 0233	P 100
	4.8 x 30	16.0 - 24.0	670 0241	"

The information on shear and tensile strength, rivet pin diameters and the maximum setting head diameters can be found on page 29.

All GESIPA® PolyGrip® blind rivets are guaranteed to be splash proof under certain conditions.



Alu/stainless steel Standard

(Dome head)

Rivet body: Alu AlMg 2.5
Mandrel: Stainless steel A2 – no. 1.4541



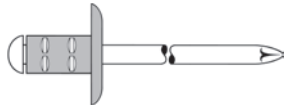
	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
3.2 Hole Ø: 3.3 mm	3.2 x 8	0.5 - 5.0	672 0013	P 1.000
	3.2 x 9.5	1.5 - 6.5	672 0021	"
	3.2 x 11	3.0 - 8.0	672 0048	"
4.0 Hole Ø: 4.1 mm	4 x 10	0.5 - 6.5	672 0080	P 500
	4 x 13	3.5 - 9.5	672 0099	"
	4 x 17	7.0 - 13.0	672 0102	"
4.8 Hole Ø: 4.9 mm Ü	4.8 x 10	0.5 - 6.5	672 0145	P 500
	4.8 x 15	4.5 - 11.0	672 0153	"
	4.8 x 17	6.5 - 13.0	672 0161	"
	4.8 x 25	11.0 - 19.5	672 0188	P 250
	4.8 x 30	16.0 - 24.0	672 0196	"
6.4 Hole Ø: 6.5 mm	6.4 x 15	1.5 - 9.0	672 0269	P 250
	6.4 x 20	6.0 - 14.0	672 0277	"
	6.4 x 25	10.0 - 18.0	672 0285	"

Material surcharge will be added
at a daily rate

Ü: DIBt approval No. Z-14.1-4
Please refer to approval documents

Alu/stainless steel Large flange

Rivet body: Alu AlMg 2.5
Mandrel: Stainless steel A2 – no. 1.4541



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
3.2 - K 9.5 Hole Ø: 3.3 mm	3.2 x 8	0.5 - 5.0	672 0056	P 1.000
	3.2 x 9.5	1.5 - 6.5	672 0064	"
	3.2 x 11	3.0 - 8.0	672 0072	"
4.0 - K 12 Hole Ø: 4.1 mm	4 x 10	0.5 - 6.5	672 0110	P 500
	4 x 13	3.5 - 9.5	672 0129	"
	4 x 17	7.0 - 13.0	672 0137	"
4.8 - K 16 Hole Ø: 4.9 mm	4.8 x 10	0.5 - 6.5	672 0218	P 250
	4.8 x 15	4.5 - 11.0	672 0226	"
	4.8 x 17	6.5 - 13.0	672 0234	"
	4.8 x 25	11.0 - 19.5	672 0242	P 100
	4.8 x 30	16.0 - 24.0	672 0250	"

Material surcharge will be added at a daily rate

Steel/steel Standard

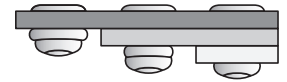
(Dome head)

Rivet body: Steel, zinc-plated
Mandrel: Steel, zinc-plated



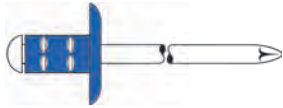
	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
3.2 Hole Ø: 3.3 mm	3.2 x 8	1.0 - 5.0	671 0018	P 1.000
	3.2 x 9.5	2.0 - 6.5	671 0026	"
	3.2 x 11	3.0 - 8.0	671 0034	"
4.0 Hole Ø: 4.1 mm	4 x 10	1.5 - 6.5	671 0077	P 500
	4 x 13	4.5 - 9.0	671 0085	"
	4 x 17	8.5 - 13.0	671 0093	"
4.8 Hole Ø: 4.9 mm	4.8 x 10	1.5 - 6.5	671 0131	P 500
	4.8 x 15	6.0 - 11.0	671 0158	"
	4.8 x 17	8.5 - 13.0	671 0166	"
6.4 Hole Ø: 6.5 mm	6.4 x 15	2.0 - 8.0	671 0263	P 250
	6.4 x 20	5.0 - 13.0	671 0285	"
	6.4 x 25	10.0 - 18.0	671 0294	P 200

All GESIPA® PolyGrip® blind rivets are guaranteed to be splash proof under certain conditions.



Steel/steel Large flange

Rivet body: Steel, zinc-plated
Mandrel: Steel, zinc-plated



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
3.2 - K 9.5 Hole Ø: 3.3 mm	3.2 x 8	1.0 - 5.0	671 0042	P 1.000
	3.2 x 9.5	2.0 - 6.5	671 0050	"
	3.2 x 11	3.0 - 8.0	671 0069	"
4.0 - K 12 Hole Ø: 4.1 mm	4 x 10	1.5 - 6.5	671 0107	P 500
	4 x 13	4.5 - 9.0	671 0115	"
	4 x 17	8.5 - 13.0	671 0123	"
4.8 - K 16 Hole Ø: 4.9 mm	4.8 x 10	1.5 - 6.5	671 0174	P 250
	4.8 x 15	6.0 - 11.0	671 0182	"
	4.8 x 17	8.5 - 13.0	671 0190	"

A2 stainless steel Standard

(Dome head)

Rivet body: Stainless
steel A2 - no. 1.4567
Mandrel: Stainless steel
A2 - no. 1.4541



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
3.2 Hole Ø: 3.3 mm	3.2 x 8	1.0 - 5.0	673 0019	P 1.000
	3.2 x 9.5	2.0 - 6.0	673 0027	"
	3.2 x 11	3.0 - 8.0	673 0035	"
4.0 Hole Ø: 4.1 mm	4 x 10	1.0 - 6.5	673 1007	P 500
	4 x 13	3.0 - 8.0	673 1015	"
	4 x 17	7.0 - 11.0	673 1023	"
4.8 Hole Ø: 4.9 mm	4.8 x 10	1.0 - 6.5	673 2032	P 500
	4.8 x 15	5.0 - 10.0	673 2059	"
	4.8 x 17	8.0 - 12.0	673 2067	"
6.4 Hole Ø: 6.5 mm	6.4 x 13	2.0 - 6.5	673 3057	P 250
	6.4 x 15	3.5 - 8.5	673 3034	"
	6.4 x 20	7.0 - 12.5	673 3061	"

Material surcharge will be added
at a daily rate

PolyGrip® alu/steel and alu/stainless steel					
Rivet Ø mm	Shear strength N (kp)	Tensile strength N (kp)	Mandrel Ø mm	Max. head Ø mm Standard	Max. head Ø mm Large flange
3.2	720 (73)	1,050 (107)	1.8	6.5	9.5
4.0	1,060 (108)	1,680 (171)	2.3	8.0	12.0
4.8	1,500 (163)	2,300 (231)	2.7	9.5	16.0
6.4	2,800 (285)	4,000 (405)	3.65	13.0	-

PolyGrip® steel/steel					
Rivet Ø mm	Shear strength N (kp)	Tensile strength N (kp)	Mandrel Ø mm	Max. head Ø mm Standard	Max. head Ø mm Large flange
3.2	1,200 (122)	1,600 (163)	2.1	6.5	9.5
4.0	1,650 (168)	2,400 (245)	2.6	8.0	12.0
4.8	2,400 (245)	3,200 (326)	3.2	9.5	16.0
6.4	4,900 (499)	6,200 (632)	4.25	13.0	-

PolyGrip® stainless steel				
Rivet Ø mm	Shear strength N (kp)	Tensile strength N (kp)	Mandrel Ø mm	Max. head Ø mm
3.2	1,450 (148)	2,300 (235)	2.2	6.5
4.0	2,650 (271)	3,600 (367)	2.7	8.0
4.8	4,000 (408)	5,000 (510)	3.2	9.5
6.4	7,800 (795)	8,800 (897)	4.25	13.0

Test procedure according to
DIN EN ISO 14589

All GESIPA® PolyGrip® blind rivets are guaranteed to be splash proof under certain conditions.

SolarGrip® special rivet for flexible use in solar panel installation

SolarGrip® – the solar fastener

- DIBt approval Z-14.1-537
- Matching grip range for many solar applications
- Ideal for working on trapezoid panel roofs
- SolarSeal coating for 4,8 mm rivets
- Riveting of sponge rubber or EPDM washers possible
- Function documentation available on request at extra cost



SolarGrip® – the basic characteristics

- Large grip range coverage with a single blind rivet
- Wide closing head
- Outstanding hole filling capability
- Compact closing head
- For use with all GESIPA® setting tools

The perfect processing tool, the PowerBird®-Solar, can be found on page 62.



SolarGrip – the demand of our customer Contecta

- The task**
- An efficient fastener for two applications
- The pre-requisites:**
- Reliable connection
 - Varying grip ranges
 - Limited accessibility
- The result:**
- A blind rivet with a large grip range and large hole tolerance
 - SolarSeal coating for 4.8 size rivets
 - Processing tool: PowerBird® Solar



SolarGrip® – The verdict of our customer Contecta

Our customer Contecta, a developer and manufacturer of solar installation systems from Kirchheim, about SolarGrip®: Easy, fast, reliable: With our TÜV-certified installation system DICONAL®, we offer flexible solutions direct from the manufacturer.

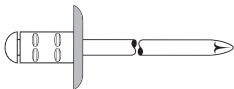
For attachment to trapezoid plate roofs, we were looking for a solution which fulfilled our requirements for watertightness and easy, fast installation. There was one thing it had to be above all: Economical!

In GESIPA®, we found a reliable, flexible partner who perfectly meets our many requirements.

Thanks to the open and cooperative partnership with GESIPA®, we have in the 2010 season already used hundreds of thousands of blind rivets tailored exactly to our needs, and to the complete satisfaction of our customers.



SolarGrip® Program



	Rivet body D ₁ x L mm	Material	Grip range mm	Tensile strength in N	Shear strength in N	Part no.	Quantity per box
4.8 Hole Ø: 5.1- 5.2 mm Ü	4.8 x 12.0 F K 11.4	Rivet body: Alu AlMg 2.5 (colour: silver) Mandrel: Stainless steel A2 — no. 1.4541	3.0 - 5.0	2,300	1,500	672 1013	P 500
	4.8 x 15.0 F K 11.4	Rivet body: Alu AlMg 2.5 (Colour: black) Mandrel: Stainless steel A2 — no. 1.4541	5.0 - 8.0	2,300	1,500	672 1024	"
6.4 Hole Ø: 6.5- 6.9 mm Ü	6.4 x 14.0 F K 11.4	Rivet body: Alu AlMg 2.5 (blank) Mandrel: Steel, zinc-plated	3.0 - 8.0	4,000	2,800	670 1011	P 250



Many millions of connections prove the reliability of the GESIPA®- SolarGrip® blind rivet day after day in storms, rain, snow and sun, above is the applications for the company mp tec.

Speak to us, we will be happy to advise you!



GESIPA CAP® – naturally air and watertight

The GESIPA CAP® blind rivet — A closed end rivet

The rivet body of the GESIPA CAP® blind rivet is absolutely air and watertight. Liquids cannot seep through, could however seep around the set rivet, if the setting hole is too large. Therefore great care must be brought to fulfilling the hole tolerances.



The GESIPA CAP® blind rivet — the structure

For technical reasons, the rivet mandrel of the GESIPA CAP® blind rivet must be fixed in the hollow rivet. However this means that the rivet body can only deform slightly during the setting process. As a result, the cap blind rivet only has marginal bearing stress properties. However these are necessary to be able to compensate large bore-hole tolerances.



The GESIPA CAP® blind rivet — Tight connections with care

The above-mentioned technical situations make careful preparation of the application imperative. The hole diameter should be as tight as possible to ensure a flawless function in the application for a long period.

If the GESIPA CAP® blind rivet is processed carefully, it forms the basis for a reliably "tight" connection.

CAP- blind rivet alu/steel standard

Rivet body: Alu AIMg 5
Mandrel: Steel, phosphate coated

Closed end rivet



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
3.2 Hole Ø: 3.3 mm	3.2 x 6.5	0.5 - 2.0	610 0016	A 500
	3.2 x 8.0	2.0 - 3.5	610 0032	"
	3.2 x 9.5	3.5 - 5.0	610 0059	"
	3.2 x 10.5	5.0 - 6.5	610 0075	"
	3.2 x 12.5	6.5 - 8.0	610 0091	"
4 Hole Ø: 4.1 mm	4 x 8.0	0.5 - 3.5	610 0709	B 500
	4 x 9.5	3.5 - 5.0	610 0717	"
	4 x 11.0	5.0 - 6.5	610 0725	"
	4 x 12.5	6.5 - 8.0	610 0733	"
	4 x 15.0	8.0 - 11.0	610 0741	"

	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
4.8 Hole Ø: 4.9 mm Ü	4.8 x 8.0	1.0 - 3.5	610 0350	B 500
	4.8 x 9.5	3.5 - 5.0	610 0377	"
	4.8 x 11.0	5.0 - 6.5	610 0393	"
	4.8 x 12.5	6.5 - 8.0	610 0415	"
	4.8 x 14.0	8.0 - 9.5	610 0431	"
	4.8 x 16.0	9.5 - 11.0	610 0873	"
	4.8 x 18.0	11.0 - 13.0	610 0857	"
	4.8 x 21.0	13.0 - 16.0	610 0865	B 250

Ü: DIBt approval No. Z-14.1-4
Please refer to approval documents

CAP- blind rivet alu/stainless steel standard

Rivet body: Alu AIMg 5
Mandrel: Stainless steel

Closed end rivet



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
3.2 Hole Ø: 3.3 mm	3.2 x 6.5	0.5 - 2.0	612 2000	A 500
	3.2 x 8.0	2.0 - 3.5	612 2019	"
	3.2 x 9.5	3.5 - 5.0	612 2027	"
	3.2 x 10.5	5.0 - 6.5	612 2035	"
	3.2 x 12.5	6.5 - 8.0	612 2043	"
4 Hole Ø: 4.1 mm	4 x 8.0	0.5 - 3.5	612 2108	B 500
	4 x 9.5	3.5 - 5.0	612 2116	"
	4 x 11.0	5.0 - 6.5	612 2124	"
	4 x 12.5	6.5 - 8.0	612 2132	"

	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
4.8 Hole Ø: 4.9 mm Ü	4.8 x 8.0	1.0 - 3.5	612 2205	B 500
	4.8 x 9.5	3.5 - 5.0	612 2213	"
	4.8 x 11.0	5.0 - 6.5	612 2221	"
	4.8 x 12.5	6.5 - 8.0	612 2248	"
	4.8 x 14.0	8.0 - 9.5	612 2256	"
	4.8 x 16.0	9.5 - 11.0	612 2264	"
	4.8 x 18.0	11.0 - 13.0	612 2272	"
	4.8 x 21.0	13.0 - 16.0	612 2280	B 250

Material surcharge will be added at a daily rate

Ü: DIBt approval No. Z-14.1-4; Please refer to approval documents

CAP- blind rivet A2-stainless steel standard

Rivet body: Stainless steel A2 — no. 1.4301
Mandrel: Stainless steel A1 — no. 1.4021

Closed end rivet



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
3.2 Hole Ø: 3.3 mm	3.2 x 6.0	0.8 - 2.0	613 0001	A 500
	3.2 x 8.0	2.0 - 4.0	613 0002	"
	3.2 x 10.0	4.0 - 6.0	613 0003	"
	3.2 x 12.0	6.0 - 8.0	613 0004	"
4 Hole Ø: 4.1 mm	4 x 6.0	0.8 - 1.5	613 0011	A 500
	4 x 8.0	1.5 - 3.5	613 0012	"
	4 x 10.0	3.5 - 5.5	613 0013	B 500
	4 x 12.0	5.5 - 7.5	613 0014	"
	4 x 16.0	7.5 - 11.5	613 0015	"

	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
4.8 Hole Ø: 4.9 mm	4.8 x 8.0	0.8 - 3.0	613 0031	B 500
	4.8 x 10.0	3.0 - 5.0	613 0032	"
	4.8 x 12.0	5.0 - 7.0	613 0033	"
	4.8 x 16.0	7.0 - 11.0	613 0034	"
	4.8 x 20.0	11.0 - 15.0	613 0035	B 250

Material surcharge will be added at a daily rate

The experts in blind riveting

GESIPA®

CAP- blind rivet copper/steel standard

Rivet body: Cu-mat
Mandrel: Steel, lightly oiled

Closed end rivet



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
3.2 Hole Ø: 3.3 mm	3.2 x 6.0	0.5 - 1.5	614 1012	A 500
	3.2 x 7.5	1.5 - 3.0	614 1039	"
	3.2 x 9.0	3.0 - 4.5	614 1055	"
	3.2 x 12.0	4.5 - 8.0	614 1071	"
4 Hole Ø: 4.1 mm	4 x 9.5	1.0 - 4.5	614 1101	A 500

	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
4.8 Hole Ø: 4.9 mm	4.8 x 11.5	3.5 - 6.5	614 1233	B 500
	4.8 x 13.0	6.5 - 8.0	614 1241	"
	4.8 x 15.0	8.0 - 9.5	614 1268	"

CAP- blind rivet copper/stainless steel standard

Rivet body: Cu-mat
Mandrel: Stainless steel

Closed end rivet

standard



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
3.2 Hole Ø: 3.3 mm	3.2 x 6.0	0.5 - 1.5	617 3007	A 500
	3.2 x 7.5	1.5 - 3.0	617 3015	"
	3.2 x 9.0	3.0 - 4.5	617 3023	"

Material surcharge will be added at a daily rate

CAP-Alu/steel and CAP-Alu/stainless steel				
Rivet Ø mm	Shear strength N (kp)	Tensile strength N (kp)	Mandrel Ø mm	Max. head Ø mm
3.2	1,050 (107)	1,250 (127)	1.7	6.5
4.0	1,550 (158)	2,100 (214)	2.2	8.5
4.8	2,400 (245)	3,500 (356)	2.7	10.0

CAP-A2 stainless steel				
Rivet Ø mm	Shear strength N (kp)	Tensile strength N (kp)	Mandrel Ø mm	Max. head Ø mm
3.2	1,900 (194)	2,400 (245)	1.9	6.5
4.0	2,900 (296)	3,700 (377)	2.3	8.5
4.8	4,300 (439)	5,400 (551)	2.9	10.0

Test procedure according to DIN EN ISO 14589

CAP-Copper/steel and CAP-Copper/stainless steel				
Rivet Ø mm	Shear strength N (kp)	Tensile strength N (kp)	Mandrel Ø mm	Max. head Ø mm
3.2	1,000 (102)	1,400 (143)	1.7	6.0
4.0	1,500 (153)	2,200 (224)	2.2	8.0
4.8	2,100 (214)	3,100 (316)	2.7	9.5



Coloured blind rivets and special blind rivets

Coloured blind rivets

GESIPA® blind rivets are also available in colour to match the application.

To guarantee the best possible durability the hollow rivets are painted using a two-component epoxy resin paint in a stove enamelling process.

In addition to the visual benefits, the painted blind rivet also has added protection against corrosion. Aluminium blind rivets are best suited for this procedure. In the long-term they achieve the desired visual effect when joining coloured parts.

GESIPA® blind rivets are available in the standard RAL colours. On request, steel blind rivets are also available in RAL colours or even special colours.

Another method for colouring blind rivets and for protecting them against corrosion is to anodise them. GESIPA® blind rivets are anodised in a direct current sulphuric acid process. The term Eloxal is used to describe the electrolytic oxidation of aluminium. Eloxal itself is actually colourless. Applying a second coat using metal salts creates the desired light-fast colour. The Eloxal method is more complex but is the most durable process for coloured blind rivets.



Special blind rivets

There are numerous applications that require the use of special blind rivets. For this reason GESIPA® has come up with some variations to meet these requirements.

Grooved blind rivets are suitable for riveting pocket holes in soft materials. They are used in the furniture industry, for interior construction, in the wood and plastics processing industry, in car body construction and lots more.

Important: Before processing grooved blind rivets, the bore-hole diameter must be determined in trials and the minimum bore-hole depth must be observed.

Peel blind rivets are required if soft or porous parts such as wood, hard-fibre, fibreglass or plasterboards need to be joined together. In the setting process, the rivet mandrel falls out of the hollow rivet, and on the closing head side the rivet mandrel splits the hollow rivet into four parts. These then grip into the material. Typical application fields are the assembly of plastic and wooden elements, caravan constructions and the attachment of interior panels.

The blind rivet connection itself is a permanent connection. However to attach further detachable parts, GESIPA® has the **threaded blind rivet** in its range. The threaded blind rivet has a stud bolt with an M5 or M6 outer thread to which other parts can be attached using an additional nut. The GESIPA® blind rivet stud range is listed on page 109 for parts that need greater clamping forces.

The **GESIPA®-clamp profile blind rivet** are excellently suited to comply with defined clearances when mounting parts or to set stoppers in rails. Accordingly, this special rivet is also used in the white goods and furniture industry.

Painted blind rivet alu/steel standard

Rivet body: Alu, painted AIMg 3
Mandrel: Steel, zinc-plated

(Dome head)



	Rivet body D _i x L in mm	Colour	RAL no.	Grip range mm	Part no.	Quantity per box
3 Hole Ø: 3.1 mm	3 x 6	black	9005	0.5 - 3.5	630 0049	A 500
	3 x 6	white	9010	0.5 - 3.5	630 4680	"
	3 x 8	black	9005	3.5 - 5.0	630 0057	"
	3 x 8	white	9010	3.5 - 5.0	630 0065	"
4 Hole Ø: 4.1 mm	4 x 6	black	9005	0.5 - 3.0	630 0073	"
	4 x 6	white	9010	0.5 - 3.0	630 4699	"
	4 x 6	brown	8014	0.5 - 3.0	630 0243	"
	4 x 8	black	9005	3.0 - 5.0	630 0251	"
	4 x 8	white	9010	3.0 - 5.0	630 0278	"
	4 x 8	brown	8014	3.0 - 5.0	630 0286	"
	4 x 10	black	9005	5.0 - 6.5	630 0294	"
	4 x 10	white	9010	5.0 - 6.5	630 0510	"
	4 x 10	brown	8014	5.0 - 6.5	630 0537	"
	4 x 12	black	9005	6.5 - 8.5	630 0553	B 500
	4 x 12	white	9010	6.5 - 8.5	630 0588	"
	4 x 12	brown	8014	6.5 - 8.5	630 0618	"
5 Hole Ø: 5.1 mm	4 x 16	white	9010	10.5 - 12.5	630 4702	"
	5 x 10	black	9005	1.5 - 6.0	630 0626	"
	5 x 10	white	9010	1.5 - 6.0	630 0634	"
	5 x 12	black	9005	6.0 - 8.0	630 0642	"
	5 x 12	white	9010	6.0 - 8.0	630 0650	"

Anodised blind rivet alu/steel standard

Rivet body: Alu anodised AIMg 3
Mandrel: Steel, zinc-plated

(Dome head)



	Rivet body D _i x L in mm	Colour	RAL no.	Grip range mm	Part no.	Quantity per box
4 Hole Ø: 4.1 mm	4 x 8	dark bronze	8017	2.0 - 5.0	630 0669	A 500
	4 x 10	black	9005	5.0 - 6.5	630 0677	"
	4 x 10	dark bronze	8017	5.0 - 6.5	630 0685	"
	4 x 12	black	9005	6.5 - 8.5	630 0693	B 500
	4 x 12	dark bronze	8017	6.5 - 8.5	630 0839	"
	4 x 16	dark bronze	8017	8.5 - 12.5	630 0847	"

Anodised blind rivet alu/stainless steel standard

Rivet body: Alu anodised AIMg 3
Mandrel: Stainless steel A2 no. 1.4541

(Dome head)



	Rivet body D _i x L in mm	Colour	RAL no.	Grip range mm	Part no.	Quantity per box
4 Hole Ø: 4.1 mm	4 x 12	dark bronze	8017	6.5 - 8.5	632 0325	B 500

Painted and anodised blind rivet alu/steel and anodised blind rivet alu/stainless steel					
Rivet Ø mm	Shear strength N (kp)		Tensile strength N (kp)		Max. head Ø mm
3	700	(71)	900	(92)	6.5
4	1,400	(143)	2,000	(204)	8.0
5	2,000	(204)	2,800	(285)	9.5

Material surcharge will be added at a daily rate

Test procedure according to DIN EN ISO 14589

Other sizes and colours on request

Grooved blind rivets alu/steel standard

Rivet body: Alu AIMg 3
Mandrel: Steel, zinc-plated

(Dome head)

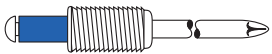


	Rivet body $D_1 \times L$ mm	max. thick- ness for parts to be rive- ted on mm	Part no.	Quantity per box
3.2 Hole Ø: 3.4 mm	3.2 x 10	6	630 3536	A 500
	3.2 x 16	12	630 3552	"
4 Hole Ø: 4.3 mm	4 x 8	4	630 3595	A 500
	4 x 12	8	630 3633	B 500
	4 x 16	12	630 3676	"

	Rivet body $D_1 \times L$ mm	max. thick- ness for parts to be rive- ted on mm	Part no.	Quantity per box
4.8 Hole Ø: 5.1 mm	4.8 x 10	6	630 3757	B 500
	4.8 x 14	10	630 3773	B 250
	4.8 x 18	13	630 3560	"
	4.8 x 20	15	630 3811	"
	4.8 x 25	20	630 3870	"

Threaded blind rivets steel/steel

Rivet body: Steel, zinc-plated
Mandrel: Steel, zinc-plated



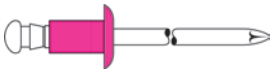
Thread Hole Ø: 3.1 mm $G \times l$ mm	Rivet body $D_1 \times L$ mm	Grip range mm	Part no.	Quantity per box
M 5 x 10	3 x 6	0.5 - 3.0	638 0018	A 250
M 5 x 15	3 x 9	3.0 - 6.0	638 0034	"

Thread Hole Ø: 4.1 mm $G \times l$ mm	Rivet body $D_1 \times L$ mm	Grip range mm	Part no.	Quantity per box
M 6 x 10	4 x 5	1.0 - 2.0	638 0131	A 250
M 6 x 15	4 x 8	2.0 - 5.0	638 0158	"

Plastic blind rivets standard

Rivet body: Polyamide, PA 6.6
Mandrel: Polyamide, PA 6.6

(Dome head)



	Rivet body $D_1 \times L$ mm	Grip range mm	Part no.	Quantity per box
4 Hole Ø: 4.1 mm	4 x 8	0.5 - 5.0	640 0019	B 500
	4 x 12	5.0 - 9.0	640 0035	"
5 Hole Ø: 5.1 mm	5 x 8	0.5 - 5.0	640 0116	B 500
	5 x 12	5.0 - 9.0	640 0132	"

	Rivet body $D_1 \times L$ mm	Grip ran- ge mm	Part no.	Quantity per box
6 Hole Ø: 6.1 mm	6 x 8	0.5 - 5.0	640 0213	B 250
	6 x 12	5.0 - 9.0	640 0256	"

Grooved alu/steel				
Rivet Ø mm	N	Shear strength (kp)	Tensile strength (kp)	Mandrel Ø mm
3.2	720	(73)	950 (97)	1.95
4	1,400	(143)	2,000 (204)	2.1
4.8	1,800	(184)	2,700 (275)	2.7

Thread steel/steel			
Rivet Ø mm	N	Shear strength (kp)	Mandrel Ø mm
3	1,100	(112)	1.95
4	2,000	(204)	2.5

Plastic		
Rivet Ø mm	N	Shear strength (kp)
4	180	(18)
5	290	(30)
6	440	(45)

Test procedure according to DIN EN ISO 14589

Peel blind rivets alu/steel standard

Rivet body: Alu AIMg 3
Mandrel: Steel, zinc-plated



	Rivet body D _i x L mm	Grip range mm	Part no.	Quantity per box
3.2 Hole Ø: 3.6 mm	3.2 x 10	2.5 - 5.0	646 0232	A 500
	3.2 x 12	4.5 - 7.0	646 0240	"
	3.2 x 16	6.5 - 11.0	646 0267	"
4 Hole Ø: 4.4 mm	4 x 8	1.0 - 3.0	646 0003	A 500
	4 x 10	2.5 - 5.0	646 0216	B 500
	4 x 12	4.5 - 6.5	646 0038	"
	4 x 14	6.0 - 8.0	646 0046	"
	4 x 16	7.5 - 10.0	646 0054	"
	4 x 18	9.0 - 12.0	646 0062	"
	4 x 20	11.5 - 14.0	646 0070	"

	Rivet body D _i x L mm	Grip range mm	Part no.	Quantity per box
4.8 Hole Ø: 5.2 mm	4.8 x 10	2.5 - 5.0	646 0208	B 500
	4.8 x 12	4.5 - 7.0	646 0127	"
	4.8 x 14	6.5 - 9.0	646 0135	B 250
	4.8 x 16	8.5 - 10.0	646 0143	"
	4.8 x 18	9.5 - 12.0	646 0186	"
	4.8 x 20	11.5 - 14.0	646 0151	"
	4.8 x 25	13.5 - 19.0	646 0275	"

Profile clinching rivets alu/steel

Rivet body: Aluminium, RoHS compliant
Mandrel: Steel, zinc-plated

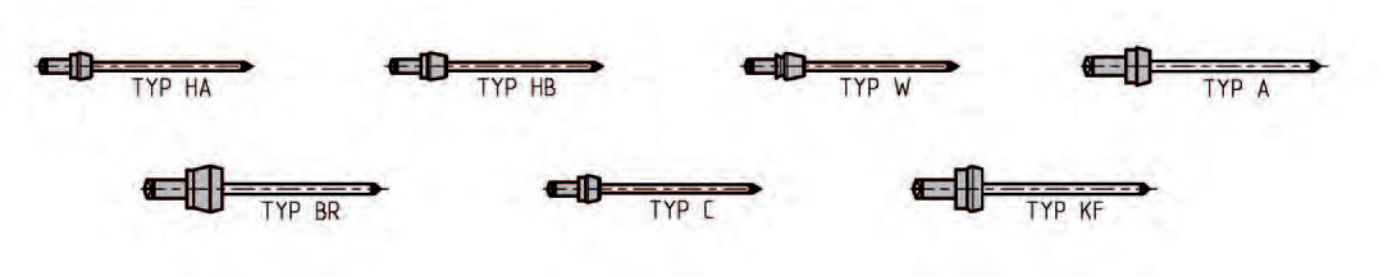
Profile Type Hole Ø: 3.1 mm	Rivet body Ø x L mm	Grip Material-range mm	Part no.	Quantity per box
HA	3 x 5	1.0 - 2.5	620 0012	A 500
HA	3 x 7	2.5 - 4.5	620 0039	"
HB	3 x 5	1.0 - 2.5	620 0055	A 500
HB	3 x 7	2.5 - 4.5	620 0071	"
W	3 x 5	1.0 - 2.5	620 0098	A 500

Profile Type Hole Ø: 4.1 mm	Rivet body Ø x L mm	Grip Material-range mm	Part no.	Quantity per box
A	4 x 7	1.0 - 4.0	620 0233	B 500
BR	4 x 7	1.0 - 4.0	620 0276	"
C	4 x 7	1.0 - 4.0	620 0314	"
KF	4 x 7	1.0 - 4.0	620 0330	"

Spread alu/steel				
Rivet Ø mm	Shear strength N (kp)	Tensile strength N (kp)	Mandrel Ø mm	Max. head Ø mm
3.2	800 (81)	950 (97)	1.95	6.5
4	1,400 (143)	2,000 (204)	2.1	8.0
4.8	2,000 (204)	2,700 (275)	2.7	9.5

Clinching profile alu/steel		
Rivet Ø mm	Shear strength N (kp)	Mandrel Ø mm
3	450 (46)	1.8
4	850 (87)	2.1

Test procedure according to DIN EN ISO 14589



G-Bulb® – High strength in steel and stainless steel



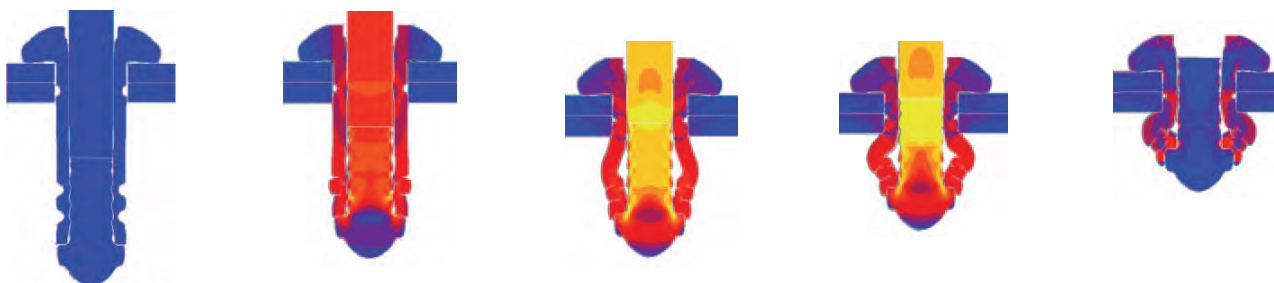
GESIPA® has developed a new range of high strength structural blind rivets called G-Bulb® with diameters of 4.8 and 6.4mm in steel and A2 stainless steel, to fit grip ranges from 1.5 up to 15.5 mm.

The G-Bulb® rivet features a wide grip range, together with high shear and tensile strengths generated by the rivet function, the formation of a large closing head and the mechanical lock of the rest mandrel in the rivet body.

In combination with the patented function crimping on the rivet body, the G-Bulb® provides tight and sealed joints in a large variation of hole sizes.

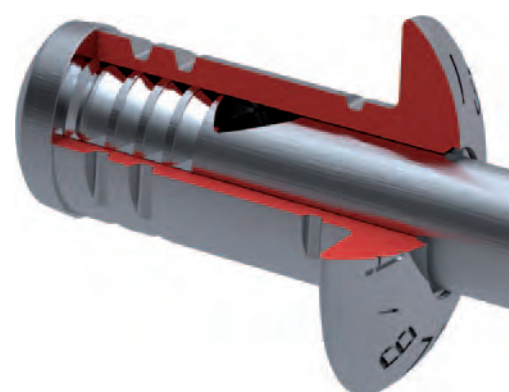
The G-Bulb® rivet generates a large closing head which transfers high strain and clamping load to the application. With a mandrel breakload of max. 16 kN, the G-Bulb® rivets can be installed with standard tooling.

The setting process



Main features

- **Excellent hole filling capability**
- **High clamping force**
- **Excellent tensile strength through large closing head**
- **Excellent shear strength through mandrel locking**
- **Processing with standard setting tools**
- **Process control compatible with the TAURUS C**
- **RoHS compliant**



Materials:

Rivet body: Steel, zinc plated CrVI-free, or stainless steel A2 No. 1.4567

Mandrel: Steel, zinc plated CrVI-free, or stainless steel A2 No. 1.4541

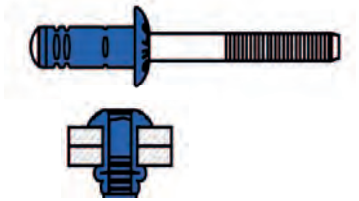
Other surface treatments on request

G-Bulb® high strength blind rivet

Steel/steel

Dome head

Rivet body: Steel, zinc-plated
Mandrel: Steel, zinc-plated

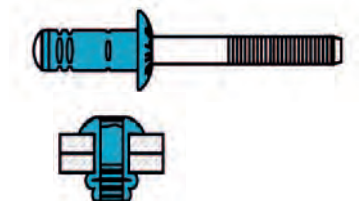


	Rivet body D _i x L mm	Grip range mm	Part no.	Quantity per box
4.8 Hole Ø: 5.0 - 5.2 mm	4.8 x 10	1.5 - 3.5	681 2037	B 500
	4.8 x 13	3.5 - 6.0	681 2045	"
	4.8 x 15	6.0 - 8.0	681 2064	"
6.4 Hole Ø: 6.7 - 6.9 mm	6.4 x 13	2.0 - 4.5	681 3014	B 250
	6.4 x 17	4.5 - 7.0	681 3027	"
	6.4 x 20	7.0 - 10.5	681 3048	B 200
	6.4 x 23	10.5 - 13.0	681 3052	B 150
	6.4 x 25	13.0 - 15.5	681 3064	"

A2 stainless steel

Dome head

Rivet body: Stainless steel A2 – no. 1.4567
Mandrel: Stainless steel A2 – no. 1.4541



	Rivet body D _i x L mm	Grip range mm	Part no.	Quantity per box
4.8 Hole Ø: 5.0 - 5.2 mm	4.8 x 10	1.5 - 3.5	683 2030	B 500
	4.8 x 13	3.5 - 5.5	683 2040	"
	4.8 x 15	5.5 - 7.5	683 2068	"
6.4 Hole Ø: 6.7 - 6.9 mm	6.4 x 13	2.0 - 4.0	683 3015	B 250
	6.4 x 15	4.0 - 6.0	683 3020	"
	6.4 x 17	6.0 - 8.0	683 3028	"
	6.4 x 20	8.0 - 10.5	683 3039	B 200
	6.4 x 23	10.5 - 12.5	683 3042	B 150
	6.4 x 25	12.5 - 14.5	683 3056	B 150

Material surcharge will be added at a daily rate

Further dimensions and surfaces upon request

G-Bulb steel/steel				
Rivet Ø	Shear strength	Tensile strength	Mandrel Ø	Max. head Ø
mm	N (kp)	N (kp)	mm	mm
4.8 x 10	3,600 (367)	3,500 (357)	3.2	9.5
4.8 x 13	4,000 (408)	3,500 (357)	3.2	9.5
4.8 x 15	5,600 (571)	3,500 (357)	3.2	9.5
6.4 x 13	8,500 (867)	8,000 (816)	4.25	13.0
6.4 x 17	10,000 (1,019)	8,000 (816)	4.25	13.0
6.4 x 20	11,000 (1,120)	8,000 (816)	4.25	13.0
6.4 x 23	11,000 (1,120)	8,000 (816)	4.25	13.0
6.4 x 25	11,000 (1,120)	8,000 (816)	4.25	13.0

G-Bulb A2 stainless steel				
Rivet Ø	Shear strength	Tensile strength	Mandrel Ø	Max. head Ø
mm	N (kp)	N (kp)	mm	mm
4.8 x 10	4,400 (431)	5,400 (550)	3.2	9.5
4.8 x 13	4,550 (446)	5,400 (550)	3.2	9.5
4.8 x 15	4,700 (461)	5,400 (550)	3.2	9.5
6.4 x 13	8,000 (816)	8,800 (897)	4.25	13.0
6.4 x 15	10,000 (1,019)	8,800 (897)	4.25	13.0
6.4 x 17	10,000 (1,019)	8,800 (897)	4.25	13.0
6.4 x 20	11,000 (1,120)	8,800 (897)	4.25	13.0
6.4 x 23	11,000 (1,120)	8,800 (897)	4.25	13.0
6.4 x 25	11,000 (1,120)	8,800 (897)	4.25	13.0

Test procedure according to DIN EN ISO 14589

MEGA GRIP® blind rivet

MEGA GRIP® blind rivet - perfect efficiency

The GESIPA® MEGA GRIP® is a high strength structure blind rivet with a very large clamping range. The variable clamping range allows efficient use and, owing to the merging of up to five blind rivet lengths into one MEGA GRIP® dimension, reduces the handling costs.

MEGA GRIP® blind rivet - the setting process

During the setting process, the hollow mandrel head presses the hollow rivet body with great force against the rivet hole. The radial deformation here ensures that an above-average, large clamping area is covered. The stable position of the rivet mandrel throughout the entire setting process guarantees compliance with the high shear force through double locking. The excellent bearing stress properties also protect ideally against splashwater.

MEGA GRIP® blind rivet — standard or special production?

The GESIPA® MEGA GRIP® is available in a flat round head or recessed head form and comes in the material combinations alu/alu or steel/steel as standard. Supplied in large or small packages, the MEGA GRIP® is always available in the quantity required. We can supply special dimensions on request.

MEGA GRIP® blind rivet - the advantages

- Perfectly splash proof
- Efficient use with large grip range coverage
- High shear strength due to double rest mandrel locking
- Outstanding hole filling capability
- Flush removal on the setting head without sharp edges.



Please note that to achieve the best possible values from the GESIPA®-MEGA GRIP®, use of special tools/nosepieces is required.

MEGA GRIP® structure blind rivets

Alu/alu

Flat head

Rivet body: AlMg 5
Mandrel: Alu mat



	Rivet body D ₁ x L mm	Grip ran- ge mm	Type	Part no. bulk pack	Quantity per box	Part no. small pack	Quantity per box
4.8 Hole Ø: 4.9- 5.2 mm	4.8 x 10.0	1.6 - 6.4	RV6900-6-4	663 0014	5,000	663 3015	B500
	4.8 x 14.0	1.6 - 11.1	RV6900-6-7	663 0022	3,000	663 3023	B250
6.4 Hole Ø: 6.6- 6.9 mm	6.4 x 14.1	2.0 - 9.5	RV6900-8-6	663 0111	2,000	663 3112	B200
	6.4 x 20.5	2.0 - 15.9	RV6900-8-10XG	663 0146	1,500	663 3147	B100

Steel/steel

Flat head

Rivet body: Steel, zinc-plated
Mandrel: Steel, zinc-plated



	Rivet body D ₁ x L mm	Grip ran- ge mm	Type	Part no. bulk pack	Quantity per box	Part no. small pack	Quantity per box
4.8 Hole Ø: 4.9- 5.2 mm	4.8 x 10.0	1.6 - 6.4	RV6977-6-4	664 0028	5,000	664 3029	B500
	4.8 x 14.0	1.6 - 11.1	RV6977-6-7	664 0036	3,000	664 3037	B250
6.4 Hole Ø: 6.6- 6.9 mm	6.4 x 14.1	2.0 - 9.5	RV6977-8-6	664 0117	2,000	664 3118	B200
	6.4 x 20.5	2.0 - 15.9	RV6977-8-10XG	664 0133	1,500	664 3134	B100

Steel/steel

Countersunk

Rivet body: Steel, zinc-plated
Mandrel: Steel, zinc-plated



	Rivet body D ₁ x L mm	Grip ran- ge mm	Type	Part no. bulk pack	Quantity per box	Part no. small pack	Quantity per box
4.8 Hole Ø: 4.9- 5.2 mm	4.8 x 10.0	2.6 - 6.4	RV6177-6-5	664 2004	3,500	664 3005	B250
	4.8 x 14.0	5.5 - 11.1	RV6177-6-8	664 2012	2,500	664 3013	B250
6.4 Hole Ø: 6.6- 6.9 mm	6.4 x 15.8	3.0 - 11.1	RV6177-8-7	664 2101	2,000	664 3102	B200

Caution: Use special tools/nosepieces for MEGA GRIP® blind rivets

MEGA GRIP® alu/alu				
Rivet Ø mm	Shear strength N (kp)	Tensile strength N (kp)	Mandrel Ø mm	Max. head Ø mm
4.8	3,330 (340)	2,400 (245)	2.95	9.2
6.4	5,910 (600)	4,450 (450)	3.9	12.4

MEGA GRIP® steel/steel				
Rivet Ø mm	Shear strength N (kp)	Tensile strength N (kp)	Mandrel Ø mm	Max. head Ø mm
4.8	6,850 (700)	4,500 (460)	2.95	9.2
6.4	12,500 (1,275)	8,200 (835)	3.9	12.4

Test procedure according to DIN EN ISO 14589

MEGA GRIP® blind rivets are available in small packs, too!

GESIPA® BULB-TITE® blind rivets - the multi-talents

Originally designed for the construction industry, the GESIPA®-BULB-TITE® rivets have proven their worth in many other application fields thanks to their multifunctional properties.

The majority of the BULB-TITE® program has been approved by the Deutschen Institutes für Bautechnik in Berlin thereby guaranteeing extra security when used in steel constructions or on facades.

BULB-TITE® blind rivet — Powerful wherever used

Thanks to the shear zone overlap of the BULB-TITE®-rivet mandrel in the application, permanent and very high shear forces can be achieved.



BULB-TITE® blind rivets — weather resistance

The use of a special nosepiece when processing the BULB-TITE®-rivet locks the mandrel into the sealing part on the setting head

side to prevent dirt and/or damp penetrating the application. The sealing washer, which is available as an optional accessory, offers added protection against wet and damp below the closing head.

BULB-TITE® blind rivet — Excellent clamping force

The three large pressure plates distribute the clamping forces evenly across a large area of the surface so that even soft, thin, supple or brittle materials can be riveted safely without destroying or damaging the surface.

BULB-TITE® blind rivet — Complex applications

BULB-TITE®-rivets also guarantee a safe function where other rivets have already given up. The three plates of the closing head adapt and form to fit even curved application surfaces so that safe riveting is possible even on pipes, beads and other unusually formed applications.

BULB-TITE® blind rivets — Multi-Grip

GESIPA®-BULB-TITE®-rivets cover larger clamping ranges. Less dimensions are required thereby reducing handling and warehouse costs.

BULB-TITE® blind rivets — Application areas

Facades, shipbuilding, containers, lorry production and passenger traffic, trailers, trapezoidal sheet metal roof

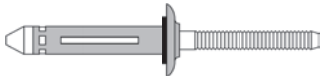
BULB-TITE® blind rivets - advantages at a glance

- Large grip range
- Vibration-proof
- Use on straight and curved application parts
- Waterproof with neoprene sealing disc
- Large distribution of the grip force over a large surface

BULB-TITE® blind rivets alu/alu

Rivet body: Alu AlMg 5
Mandrel: Alu AlCuMg 1

Dome head



	Rivet body D ₁ x L mm	Grip range mm	Type	Part no. bulk pack	Quantity per box	Part no. small pack	Quantity per box
4 Hole Ø: 4.1- 4.2 mm	4 x 20.3	1.5 - 6.4	RV 6604-5-4	660 0018	3,500	660 3019	B 250
	4 x 25.1	6.4 - 12.7	RV 6604-5-8	660 0026	"	660 3027	"
with EPDM seal disc	4 x 20.3	1.5 - 6.4	RV 6604-5-4 W	660 0514	"	660 3515	"
5.2 Hole Ø: 5.3- 5.5 mm Ü	5.2 x 17.5	1.3 - 4.8	RV 6604-6-3	660 0115	3,000	660 3116	B 250
	5.2 x 19.1	1.6 - 6.4	RV 6604-6-4	660 0123	"	660 3124	"
	5.2 x 22.2	4.7 - 9.5	RV 6604-6-6	660 0131	"	660 3132	"
	5.2 x 25.4	7.9 - 12.7	RV 6604-6-8	660 0158	"	660 3159	"
	5.2 x 28.6	11.1 - 15.9	RV 6604-6-10	660 0166	2,000	660 3167	B 200
	5.2 x 31.8	14.3 - 19.1	RV 6604-6-12	660 0174	"	660 3175	B 200
	5.2 x 34.9	17.4 - 22.2	RV 6604-6-14	660 0184	1,500	660 3185	B 150
	5.2 x 38.1	20.6 - 25.4	RV 6604-6-16	660 0196	"	660 3197	"
	5.2 x 41.3	23.8 - 28.6	RV 6604-6-18	660 0199	"	660 3198	"
	5.2 x 17.5	0.5 - 4.8	RV 6604-6-3 W	660 0603	3,000	660 3604	B 250
	5.2 x 19.1	1.6 - 6.4	RV 6604-6-4 W	660 0611	"	660 3612	"
	5.2 x 22.2	4.7 - 9.5	RV 6604-6-6 W	660 0638	"	660 3639	"
	5.2 x 25.4	7.9 - 12.7	RV 6604-6-8 W	660 0646	"	660 3647	"
	5.2 x 28.6	11.1 - 15.9	RV 6604-6-10 W	660 0654	2,000	660 3655	B 200
	5.2 x 31.8	14.3 - 19.1	RV 6604-6-12 W	660 0662	"	660 3663	"
	5.2 x 34.9	17.4 - 22.2	RV 6604-6-14 W	660 0673	1,500	660 3674	B 150
	5.2 x 38.1	20.6 - 25.4	RV 6604-6-16 W	660 0684	"	660 3685	"
	5.2 x 41.3	23.8 - 28.6	RV 6604-6-18 W	660 0695	"	660 3696	"
6.3 Hole Ø: 6.4- 6.6 mm	6.3 x 20.2	1.6 - 6.4	RV 6604-8-4	660 0212	2,000	660 3211	B 200
	6.3 x 23.4	3.2 - 9.5	RV 6604-8-6	660 0220	"	660 3221	"
	6.3 x 26.5	6.4 - 12.7	RV 6604-8-8	660 0239	"	660 3238	"
	6.3 x 29.7	9.5 - 15.9	RV 6604-8-10	660 0247	1,500	660 3246	B 150
with EPDM seal disc	6.3 x 20.2	1.6 - 6.4	RV 6604-8-4 W	660 0700	2,000	660 3701	B 200
	6.3 x 23.4	3.2 - 9.5	RV 6604-8-6 W	660 0719	"	660 3718	"
	6.3 x 26.5	6.4 - 12.7	RV 6604-8-8 W	660 0727	"	660 3726	"
	6.3 x 29.7	9.5 - 15.9	RV 6604-8-10 W	660 0735	1,500	660 3734	B 150
7.7 Hole Ø: 7.8 - 8.2 mm Ü	7.7 x 27.7	1.0 - 9.5	RV 6603-9-6	660 0301	1,000	660 3302	B 100
with EPDM seal disc Ü	7.7 x 27.7	1.0 - 9.5	RV 6603-9-6 W	660 0808	"	660 3809	"

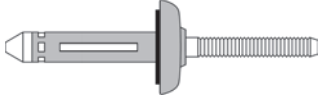
Refer to corresponding approval document

Ü: DIBt approval No. Z-14.1-4

BULB-TITE® blind rivets alu/alu

Rivet body: Alu AlMg 5
Mandrel: Alu AlCuMg 1

Large flange



	Rivet body D ₁ x L mm	Grip range mm	Type	Part no. bulk pack	Quantity per box	Part no. Small pack	Quantity per box
7.7 - K19 Hole Ø: 7.8- 8.2 mm	7.7 x 27.7	1.1 - 9.5	RV 6605-9-6 W	660 0905	1,000	660 3904	B 100
with EPDM seal disc Ü	7.7 x 34.0	6.4 - 15.9	RV 6605-9-10 W	660 0913	1,000	660 3912	B 100

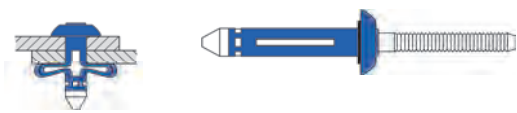
Refer to corresponding approval document

Ü: DIBt approval No. Z-14.1-4

The experts in blind riveting

BULB-TITE® blind rivet steel/steel

Rivet body: Steel, zinc-plated
Mandrel: Steel, zinc-plated

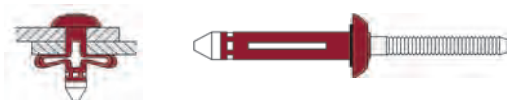


Round head

	Rivet body D ₁ x L mm	Grip range mm	Type	Part no. bulk pack	Quantity per box	Part no. Small pack	Quantity per box
6.3 Hole Ø: 6.4- 6.6 mm	6.3 x 20.2	1.0 - 6.4	RV6676-8-4	661 0013	1,500	661 3014	B 100
	6.3 x 23.4	3.2 - 9.5	RV6676-8-6	661 0021	"	661 3022	"

BULB-TITE® blind rivet monel/stainless steel

Rivet body:
Monel
Mandrel:
Stainless steel



Round head

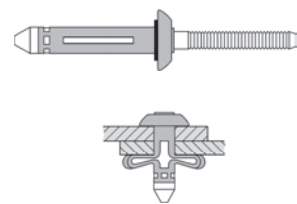
	Rivet body D ₁ x L mm	Grip range mm	Type	Part no. bulk pack	Quantity per box	Part no. Small pack	Quantity per box
6.3 Hole Ø: 6.4- 6.6 mm	6.3 x 20.2	1.0 - 6.4	RV6696-8-4	662 0019	1,500	662 3018	B 100

Material surcharge will be added at a daily rate

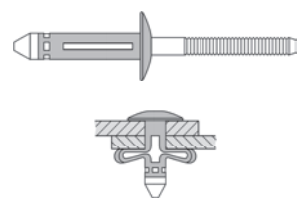
Caution: Use special tools/nosepieces for BULB-TITE® blind rivets

The following heads are also available on request:

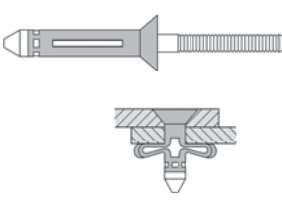
Alu/alu
Round head



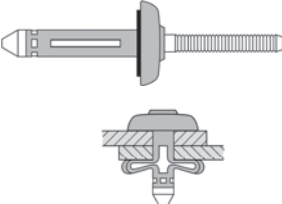
Alu/alu
Flat head



Alu/alu
Countersunk (82°)



Alu/alu
Large flange



BULB-TITE® steel/steel			
Rivet Ø mm	Shear strength N (kp)	Tensile strength N (kp)	Mandrel Ø mm
6.3	8,200 (835)	4,550 (465)	3.9

BULB-TITE® Monel/stainless steel			
Rivet Ø mm	Shear strength N (kp)	Tensile strength N (kp)	Mandrel Ø mm
6.3	7,800 (765)	4,400 (433)	3.9

BULB-TITE® alu/alu			
Rivet Ø mm	Shear strength N (kp)	Tensile strength N (kp)	Mandrel Ø mm
4	2,000 (210)	1,050 (110)	2.4
5.2	2,700 (284)	1,950 (198)	2.9
6.3	4,850 (500)	3,000 (305)	3.9
7.7	6,650 (680)	4,850 (500)	4.5

Test procedure according to DIN EN ISO 14589

BULB-TITE® blind rivets are available in small packs, too!

TRI-FOLD® folding type blind rivets

The function

The GESIPA® TRI-FOLD® blind rivet forms three press plates on the closing head side during setting.

The advantages

The large moulded press plates distribute the exerted clamping force evenly and gently onto the riveted material. Also, the large surface of the press plates offer excellent protection against the rivet being pulled through very soft, porous or brittle application parts. Thanks to its special design, the TRI-FOLD® is also able to compensate over-dimensional or irregular drill hole diameters.



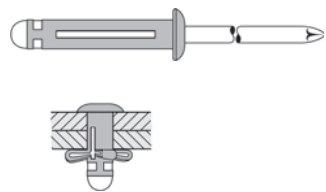
Application areas

TRI-FOLD® blind rivets are excellently suited for the automotive field, e.g. for plastic panelling, car body parts and for the interior work inside vehicles, but also for all other applications that are particularly soft, brittle, easily deformed or porous.

Alu/Alu

Dome head

Rivet body: Alu AlMg 5
Mandrel: Alu AlMg 5



	Rivet body D _r x L mm	Grip range mm	Typ	Art. Number	Quantity per box
4.1 Hole Ø: 4.2 mm	4.1 x 14.5	1.0 - 3.0	GAMD52ATF	666 0002	B 500
	4.1 x 19.5	1.0 - 6.3	GAMD54ATF	666 0010	"
	4.1 x 21.1	1.0 - 9.5	GAMD56ATF	666 0029	"
	4.1 x 24.3	3.2 - 12.7	GAMD58ATF	666 0037	"
4.8 Hole Ø: 4.9 mm	4.8 x 19.0	1.6 - 6.3	GAMD64ATF	666 0045	B 250
	4.8 x 22.2	4.7 - 9.5	GAMD66ATF	666 0053	"
	4.8 x 25.4	7.9 - 12.7	GAMD68ATF	666 0061	"
	4.8 x 28.5	11.1 - 15.9	GAMD610ATF	666 0088	"
	4.8 x 31.7	14.2 - 19.0	GAMD612ATF	666 0096	A 100

TRI-FOLD® Alu/Alu				
Rivet Ø mm	Shear strength N (kp)	Tensile strength N (kp)	Mandrel Ø mm	Max. head Ø mm
4.1	650 (66)	850 (87)	2.4	8.2
4.8	1,100 (112)	1,400 (143)	2.9	10.1

Test procedure according to DIN EN ISO 14589

Blind rivet



t setting tools



What rivets what?

Units	Energy	Blind rivet Ø mm									
		2.4	3.0	3.2	4.0	4.8	5.0	6.0	6.4	8.0	10.0
NTS	H				A S E	A S	A S				
NTX / NTX F	H				A S E	A S	A S				
Flipper®	H				A S E	A S	A S				
SN2	H										
HN2	H										
HN2 BT	H										
AccuBird®	B										
PowerBird®	B										
PowerBird® Gold Edition	B										
PowerBird® Solar	B										
PH1	P	X									
PH1 VAS	P	X									
PH2	P	X					A S				
PH2 VAS	P	X					A S				
PH2 VK	P					A S					
PH Axial	P	X					A S				
PH 2000	P	X									
PH 2000 BT	P										
TAURUS 1	P				A S						
TAURUS 2	P						A S E	A S			
TAURUS 3	P										
TAURUS 4	P									A	
TAURUS 5	P										
TAURUS 6	P										
TAUREX 1	P				A S						
TAUREX 2	P							A S			
TAUREX 3	P										
TAUREX 4	P									A	
TAUREX 5	P										
TAUREX 6	P										

What rivets what?

Tools	Energy	PolyGrip®				G-Bulb®		MegaGrip®*	Bulb-Tite®*
		3.2	4.0	4.8	6.4	4.8	6.4		
NTS	H								
NTX / NTX F	H								
Flipper®	H								
SN2	H								
HN2	H				SE with X		X	X	X
HN2 BT	H								
AccuBird®	B								X to 6.3 A S
PowerBird®	B				A			6,4 A S E	X at 7.7
PowerBird® Gold Edition	B				A			6.6 A S	X at 7.7
PowerBird® Solar	B				A			6.4 A S E	X at 7.7
PH1	P								
PH1 VAS	P								
PH2	P								
PH2 VAS	P								
PH2 VK	P			A S					
PH Axial	P								
PH 2000	P				A				
PH 2000 BT	P								
TAURUS 1	P		A						
TAURUS 2	P								
TAURUS 3	P				A S		S		
TAURUS 4	P				A S E				
TAURUS 5	P								
TAURUS 6	P								
TAUREX 1	P		A						
TAUREX 2	P								
TAUREX 3	P				A S		S		
TAUREX 4	P								
TAUREX 5	P								
TAUREX 6	P								

H: Handtool
 B: Battery-powered tool
 P: Hydro-pneumatic tool

X: Special accessories required
 *: A special nosepiece is **always** required when setting MEGA GRIP®-blind rivets and BULB-TITE®-blind rivets

A: Alu
 S: Steel
 E: Stainless steel

Blind rivet hand tools

NTS

Part no. 703 0010



(with self opening spring)

Working range

Processes all blind rivets up to 5 mm Ø aluminium and 4 mm Ø in steel and stainless steel

Technical data

Weight:	480 g
Total length:	275 mm
Stroke:	8 mm

Nosepieces / accessories

Nosepieces:
10/18, 10/24, 10/27 and 10/32
1 maintenance wrench
Operating instructions with spare parts list

Advantages

- Body casing in high-quality die cast aluminium
- Body head made of forged steel
- Narrow head for difficult to access rivets
- Opening spring for automatic ejection of the mandrel
- Ergonomic handles

Jaws (2 parts)

For NTS, NTX, NTX-F and Flipper
Part no. 705 2057

NTX

Part no. 705 0011



Working range

Processes all blind rivets up to 5 mm Ø aluminium and 4 mm Ø in steel and stainless steel

Technical data

Weight:	575 g
Total length:	260 mm
Stroke:	8 mm

Nosepieces / accessories

Nosepieces:
10/18, 10/24 and 10/32
1 maintenance wrench
Operating instructions with spare parts list

Advantages

- Body casing in high-quality die cast aluminium
- Body head made of chrome-vanadium steel, forged
- Steel inserts on all bearing points subject to wear
- Intermediate lever system reduces the force required and dampens the tear-off effect
- Narrow pliers head for difficult to access rivets
- Ergonomic slip handles
- Simple maintenance - fast jaw change

NTX F

Part no. 705 0054



(With opening spring for automatic ejection of the mandrel)

Working range

Processes all blind rivets up to 5 mm Ø aluminium and 4 mm Ø in steel and stainless steel

Technical data

Weight:	575 g
Total length:	260 mm
Stroke:	8 mm

Nosepieces / accessories

Nosepieces:
10/24, 10/27 and 10/32
1 maintenance wrench
Operating instructions with spare parts list

Advantages

- Opening spring for automatic ejection of the mandrel
- Body casing in high-quality die cast aluminium
- Body head made of chrome-vanadium steel, forged
- Steel inserts on all bearing points subject to wear
 - Intermediate lever system reduces the force required and dampens the tear-off effect
- Narrow head for difficult to access rivets
- Ergonomic handles
- Simple maintenance - fast jaw change



Riveting kit

Contents:
Hand riveter **NTX** and **12 blind rivet sizes**, 1 maintenance wrench
Weight: approx. 3.75 kg
Dimensions: 340 x 205 x 40 mm

Part no. 754 0027



The 12 blind rivet sizes:

Alu/steel 3.0 x 8.0	Alu/steel 4.0 x 10.0
Alu/steel 3.0 x 10.0	Alu/steel 4.0 x 12.0
Alu/steel 3.0 x 12.0	Copper/steel 3.0 x 6.0
Alu/steel 4.0 x 5.0	Copper/steel 4.0 x 6.0
Alu/steel 4.0 x 6.0	Alu/steel 3.0 x 5.0
Alu/steel 4.0 x 8.0	Alu/steel 3.0 x 7.0

Junior riveting kit

Contents:
Hand riveter **NTX** and 5 blind rivet sizes, 1 maintenance wrench
Weight: approx. 2.5 kg
Dimensions: 275 x 145 x 40 mm



Part no. 754 1023

The 5 blind rivet sizes:

Alu/steel 3.0 x 6.0
Alu/steel 3.0 x 8.0
Alu/steel 4.0 x 6.0
Alu/steel 4.0 x 10.0
Steel/steel 3.0 x 6.0

Blind rivet hand tools

Flipper®

Working range

Processes all blind rivets up to 5 mm Ø alu and 4 mm Ø steel and stainless steel

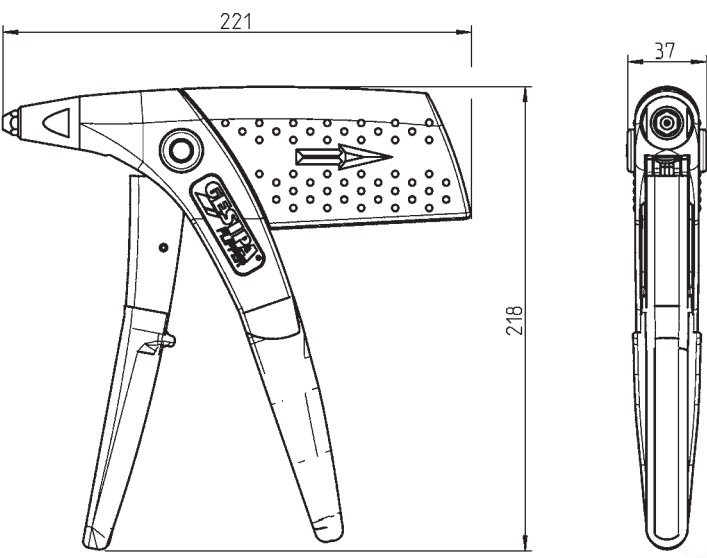
Technical data

Weight:	750 g
Total length:	212 mm
Total stroke:	16.2 mm
Single action stroke:	1.8 mm

Nosepieces / accessories

Nosepieces:
10/18, 10/24 and 10/29
1 maintenance wrench (on magazine)
Operating instructions with spare parts list

Part no. 701 0001



Conversion kit for plastic blind rivets:
Part no. 701 3000



Advantages

- The force increases when the handle is closed. This is made use of via the special arrangement of the lever when setting blind rivets: ergonomic design
- The required manual force is reduced by around 40 per cent if actuated several times.
- Actuation lever with an opening spring for easy single-handed operation
- Jaw mechanism with spring reset for safe and automatic mandrel ejection
- Rivet mandrel collection tank can be clipped to the body casing and is easy to empty
- Larger device lift: a benefit when handling extra long blind rivets
- Sturdy body casing in high-quality die cast aluminium
- Sturdy actuation lever made of tempered steel
- Link pin on anti-twist bearings
- Ergonomic lever positions and handle design

Flipper®-Box

Equipment and technical data

Contents:
Blind rivet hand tool **Flipper®** and **3 PolyGrip®**
blind rivet sizes, in a lightweight plastic carrying case
Weight: approx. 0.9 kg
Dimensions: 220 x 200 x 40 mm

The 3 blind rivet sizes:
PolyGrip alu/steel 3.2 x 8.0
PolyGrip alu/steel 4.0 x 10.0
PolyGrip alu/steel 4.8 x 10.0

Mini pack refills can be found on page 123.



Part no. 701 0002

Lever riveting tool

HN 2

Part no. 713 0015

Working range

Blind rivets from 3.0 to 6.4 mm Ø steel all materials, except PolyGrip® blind rivet with Ø 6.4 mm made of stainless steel and G-Bulb® blind rivets.

Technical data

Weight: 1.85 g
Total length: 570 mm
Stroke: 10 mm

Nosepieces / accessories

Nosepieces:
16/29, 16/32, 16/36, 16/40 and 16/45
Spent mandrel container
Maintenance instructions with spare parts list

Jaws (3 parts)

Part no. 710 2151

HN 2-BT

Part no. 713 0023

(only for BULB-TITE®)

Also for 7.7mm Ø

Working range

Sets blind rivets up to 7.7 mm Ø all materials

Technical data

Weight: 1.85 g
Total length: 570 mm
Stroke: 10 mm

Nosepieces / accessories

Nosepieces:
16/26 BT, 16/32 BT, 16/42 BT and 16/48 BT
Spent mandrel container
Maintenance instructions with spare parts list

Jaws (3 parts): HN 2 BT

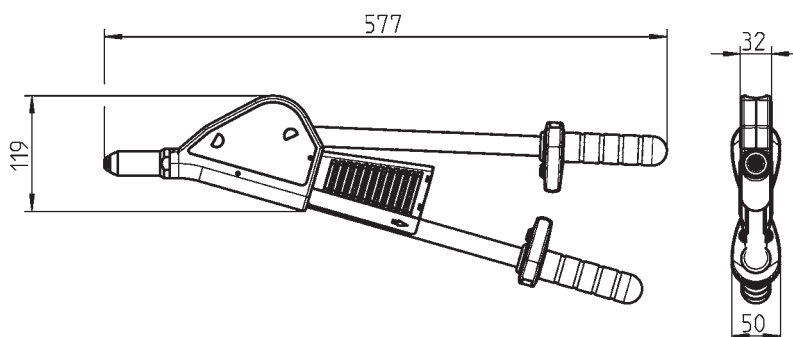
Part no. 715 1527



Nosepieces and performance - see page 55

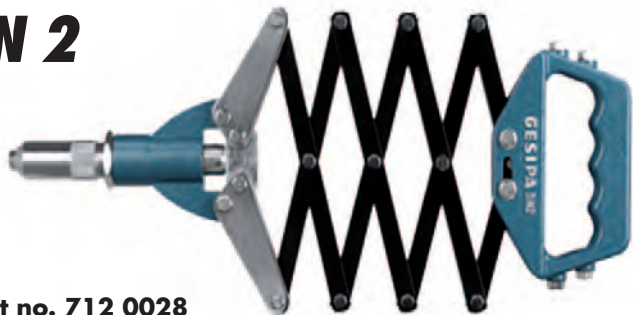
Advantages

- Pliers casing in high-quality die cast aluminium, its sturdy design protects it against soiling
- Link pin on anti-twist bearings and with inner axial protection, wear-proof and smooth running
- Tooth segment transmission with favourable lever arm arrangement reduces the force required and dampens the tear-off effect
- Fixed casing lever and ergonomic handle design: simple and easy handling
- Actuation lever: repeated re-engagement very easy, even on workpiece; highly beneficial for oversized blind rivets
- Gear rack: supported on a brass plate; smooth running
- Rivet mandrel collection tank: swivel-mounted to the casing; can be emptied easily and safely



Lazy tong riveting tool

SN 2



Part no. 712 0028

Working range

Sets blind rivets from 3.0 to 6.4 mm Ø all materials

Technical data

Weight:	1.93 g
Length when closed:	310 mm
Length when opened:	810 mm
Stroke:	10.5 mm

Nosepieces / accessories

Nosepieces for Ø 3.2 mm, 4.0 mm, 4.8 mm, 6.0 mm and 6.4 mm
1 maintenance wrench
Operating instructions with spare parts list

Advantages

- Pliers casing and handle in high-quality die cast aluminium
- Shear system in high strength steel, galvanised
- Moulded handle — double bearing
- Narrow casing for difficult to access rivets
- Enclosed pliers casing prevents soiling
- Favourable lever arm arrangement with 4-joint slide block bearing — reduced effort



Jaws (3 parts)

Part no. 725 1613

Nosepiece assignment for manual, lazy tongue and lever rivet devices

Rivet Ø	Rivet material	NTS, NTX, NTX-F, Flipper	SN2	HN2	HN"-BT
2.4	Alu	10/18	—	—	—
3.2	CAP-Alu, CAP-Cu	10/18	—	—	—
3 and 3.2	Alu, Cu, steel, stainless steel, Stinox, Alu, PG-alu, PG-steel	10/24	17/24	16/24	—
4	Alu, Cu	10/24	17/24	16/24	—
4	Steel, CAP-Alu, CAP-Cu, Alu, PG-Alu	10/27	17/27	16/27	—
4	Stainless steel, Stinox, PG-steel	10/29	17/29	16/29	—
4.8	CAP-Alu, CAP-Cu	10/29	17/29	16/29	—
5 and 4.8	Alu, PG-Alu	10/32	17/29	16/29	—
5 and 4.8	Steel, alu	—	17/32	16/32	—
5 and 4.8	Stainless steel, Stinox, PG-steel	—	17/36	16/36	—
6	Alu	—	17/36	16/36	—
6	Steel	—	17/40	16/40	—
6.4	Alu, PG-Alu	—	17/40	16/40	—
6.4	Steel, alu	—	17/45	16/45	—
4	all BULB-TITE®	—	—	—	16/26 BT
5.2	all BULB-TITE®	—	—	—	16/32 BT
6.3	all BULB-TITE®	—	—	—	16/42 BT
7.7	all BULB-TITE®	—	—	—	16/48 BT

Article numbers for nosepieces

Article	Part no.
10/18	705 1182
10/24	705 1247
10/27	705 1271
10/29	705 1298
10/32	705 1328
16/18	717 1196
16/24	717 1234
16/27	717 1277
16/29	717 1293
16/32	717 1323
16/36	717 1366
16/40	717 1390
16/45	717 1455
16/26 BT	717 1471
16/32 BT	717 1498
16/42 BT	717 1501
16/48 BT	717 1528

Nosepieces SN2 see page 57

The Bird family

The Bird family comprises of the rechargeable blind rivet setting devices AccuBird® and PowerBird® and the rechargeable blind rivet nut setting device FireBird®. The development of this device series for professional use by specialists and industrial users made **GESIPA® the inventor of the cable-free and hose-free blind rivet technology.**

In 2012 the first of the devices, the AccuBird®, will celebrate its twentieth birthday.

The maintenance-friendly Bird device series thanks its enormous success to the following benefits.



The Bird family — Production

- Made in Germany
- GESIPA® development, market launch and further development since 1992 (AccuBird®), 1996 (PowerBird®), 1995 (FireBird®)

The Bird family — Packaging

AccuBird®, PowerBird® and FireBird® are supplied in a metal carrying case (34.5 x 26.5 x 9 cm) the special versions of PowerBird® Solar and PowerBird® Gold Edition in a high quality plastic carrying case (43.7 x 37.9 x 13.0 cm)

The Bird family — Casing and accessories

Exchange for nosepieces and wrench for the AccuBird® and PowerBird® on the device, for the FireBird® in the spent mandrel container
The spent mandrel container, has an approx. volume of 190 cm³, which means it does not need to be emptied frequently
Accessories and special models have been continuously expanded since the market launch

The Bird family — Wiring

Only two large cables each with a cross-section of 4 mm² are used

The Bird family – With Li-Ion energy

- No memory-effect
- High energy yield through high voltage and low weight for easy and fast operation
- Extremely low self discharge
- New battery shape allows the tool to be stored standing on its battery

The Bird family – Practical aspects

- Exchange nosepieces and wrench always included in the tool
- Compact, shockproof tool housing
- Spent mandrel evacuation into the mandrel container through backfilling and forwards through the nosepiece by gravity
- Fatigue-free working through well balanced weight repartition and ergonomic grip

The Bird family – Mechanics, control system and battery

- Reliable connection of the mechanics and control system
- Cast control system is water and dust-tight
- User-friendly pluggable rechargeable battery



Intelligent energy

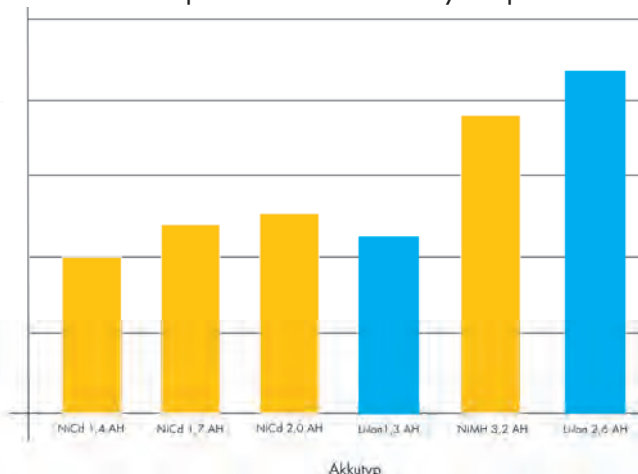
As part of the implementation of Directive 2006/66/EC of the European Community on the withdrawal of NiCd batteries, GESIPA® decided in favour of the Lithium-Ion technology as a mobile power source for battery powered setting tools. GESIPA® switched over to the new technology two years ago.

The most important advantages of Li-Ion technology

- Currently the most efficient mobile power supply
- Low weight
- High energy storage capacity (90-110 Wh/kg)
- Long storage capability due to low self-discharging
- No memory- or lazy-battery effect – low maintenance requirement
- Constant output voltage over the complete discharge period
- Large number of loading cycles
- Long service life



A comparison of the battery output



The GESIPA® battery-powered setting tools AccuBird® and FireBird® are equipped as standard with a 1.3 Ah Li-Ion battery. The GESIPA® PowerBird® is supplied with a 2.6 Ah Li-Ion battery.

The powerful 2.6 Ah battery is also optionally available as a special accessory for the AccuBird® and FireBird®. Older tools can of course also be operated with the new Li-Ion batteries. Due to the different charging principle used in the Li-Ion technology, the charging unit must also be replaced when switching over to Li-Ion batteries; the proven charging units for NiCd batteries are however still available.

Charging technology



A special, intelligent circuit in the GESIPA® Li-Ion batteries protects against deep discharging, and ensures that the last setting cycle can be completed, before the battery signals its empty condition by switching off. The empty battery is ready for use again after a charging time of only about one hour.

The new GESIPA® Li-Ion charging units are of course also available for the alternating voltages of 110 VAC and 230 VAC.

AccuBird®

AccuBird® – Reliability

- Electronic control
- No mechanical switching components
- Electronic temperature and overload protection
- High reliability through low loss power transmission via a highly efficient ball screw drive

AccuBird® – Freedom

Cablefree tool for flexible operation in installation jobs and industry production

AccuBird® – High performance

- High pulling force for safe setting of blind rivets up to 5 mm diameter in all materials
- High yield per battery charge
- Large 20mm stroke

AccuBird® – Versatility

Blind rivets up to 5 mm Ø all materials. BULB-TITE® blind rivets 4 mm; 5.2 and 6.3 mm Ø alu and steel



AccuBird® with battery 14.4 V / 1.3 Ah, and charger in carrying case
Part no. 725 0037

AccuBird® with two batteries 14.4 V / 1.3 Ah, and charger in carrying case
Part no. 725 0019

AccuBird® with battery 14.4 V / 1.3 Ah, and charger in cardboard box
Part no. 725 0029

AccuBird® with battery 14.4 V / 1.3 Ah, in cardboard box
Part no. 725 0010

AccuBird® with battery 14.4 V / 1.3 Ah, and charger with spring loaded trigger system in carrying case
Part no. 725 0015

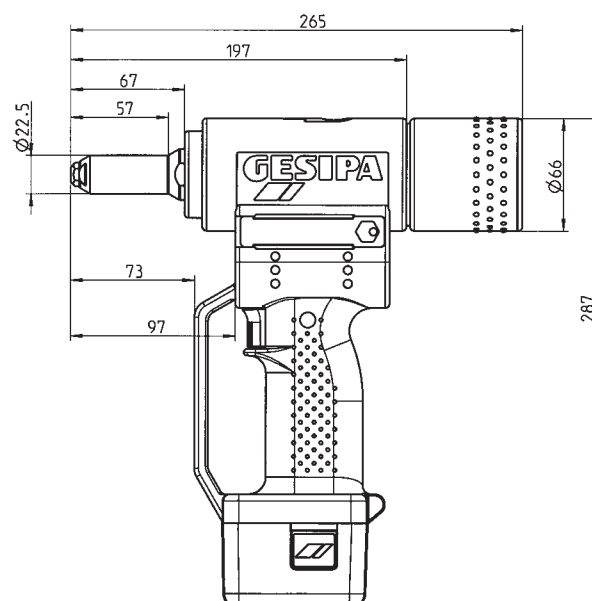


AccuBird® – with Li-Ion energy

- Choice of 1.3 Ah and 2.6 Ah Li-Ion batteries

AccuBird® – High speed

- High speed of operation through automatic resetting of the jaw mechanism immediately after each setting process



Rechargeable 14.4 Volt riveting tool with Li-Ion battery

Working range

Sets blind rivets up to 5 mm Ø all materials. BULB-TITE® blind rivets 4 mm; 5.2 and 6.3 mm Ø alu and steel

Nosepieces / accessories

Nosepieces: 17/24, 17/27, 17/29 and 17/32

Technical data

Weight: 2.0 kg with battery
Stroke: 20 mm
Drive: DC motor
Traction power: 10,000 N

Jaws (3 parts)

Part no. 725 1613

Nosepiece - power per battery charge

Blind rivet Ø in mm	Material	approx. pc/ battery charge	Nosepiece	Part no.
2.4	Alu	1,500	17/18*	725 2075
3.2	CAP-Alu, CAP-Cu	1,000	17/18*	725 2075
3 and 3.2	Alu	800	17/24	725 1583
3 and 3.2	Steel	800	17/24	725 1583
3 and 3.2	Stainless steel	800	17/24	725 1583
4	Alu	800	17/24	725 1583
4	Steel	700	17/27	725 2040
4	Stainless steel	640	17/29	725 2059
4.8 and 5	Alu	550	17/29	725 2059
4.8 and 5	Steel	420	17/32	725 2067
4.8 and 5	Stainless steel	320	17/36*	725 2083
6	Alu	240	17/36*	725 2083

Special nosepieces are available on request

BULB-TITE® blind rivet Ø in mm	Material	approx. pc/ battery charge	Nosepiece	Part no.
4	Alu	1,000	17/26 BT*	725 2202
5.2	Alu	800	17/32 BT*	725 2210
6.3	Alu	600	17/42 BT*	725 2229
6.3	Steel	300	17/42 BT*	725 2229

* Available as special accessory



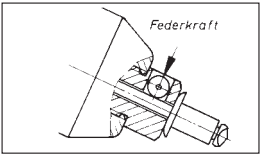
Universal nosepiece – 17
To suit AccuBird®

Part no. 725 1637

Detailed information can be found on page 85

Special accessory: Retaining nosepiece

- Inserted rivet remains in any position
- Rivets may be set with only one hand
- Safer working



Retaining nose-piece	Part no.	Retaining nose-piece	Part no.
17/18 R	725 4078	17/29 R	725 4108
17/24 R	725 4086	17/32 R*	725 4116
17/27 R	725 4094	17/36 R*	725 4124

*also for PowerBird®

Changeover set (Part 50) for BULB-TITE® blind rivet:
Part 54 (jaw pusher), Part 55 (jaws) and 3 nosepieces
Part no. 725 9290

Charger 14.4 V Li-Ion



Technical data

Input voltage: 230 V / 50 Hz
Output voltage: 14.4 V DC
Recharging time: 50 to 100 minutes (battery depending)
Weight: 0.6 kg

Battery 14.4 V/1.3 Ah (Li-Ion) Part no. 725 1045
Weight: 0.35 kg

Power battery 14.4 V/2.6 Ah (Li-Ion) Part no. 725 1049
Available as special accessory
Weight: 0.5 kg



Charger 12 V NiCd
Part no. 725 1035

Extended spent mandrel container
to suit AccuBird® and PowerBird®
Part no. 725 9328

PowerBird®

PowerBird® – Innovation

As a stronger brother to the well-known AccuBird® the PowerBird® is the powerful extension of the so-called "Bird family" from GESIPA® able to cope with all high structure blind rivets.

PowerBird® – Practical aspects

- User oriented scope of delivery: metal carrying case with one battery charger, one battery and four nosepieces

PowerBird® – Economy

- Good price-performance ratio
- Large working range
- Short processing times
- High service life thanks to 2.6 Ah power battery

PowerBird® – With Li-Ion energy

- 2.6 Ah battery, alternatively 1.3 Ah on request



PowerBird® with power battery 14.4 Volt / 2.6 Ah and charger, in carrying case,

Part no. 724 0031

PowerBird® with two power batteries 14.4 Volt / 2.6 Ah and charger, in carrying case,

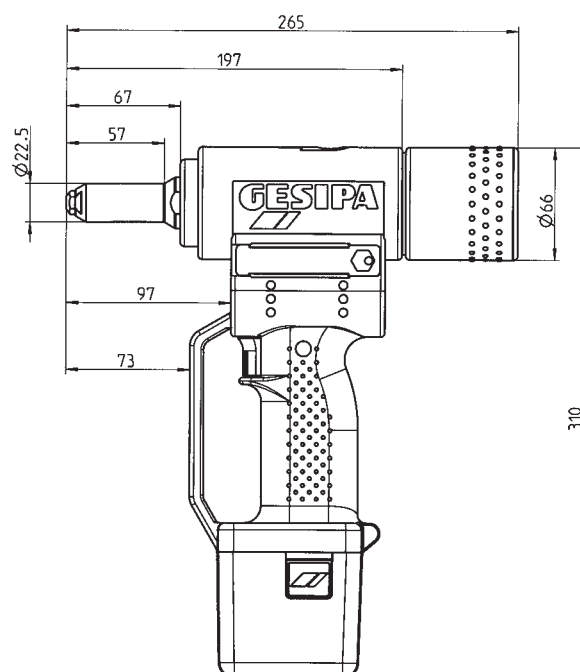
Part no. 724 0040

PowerBird® with power battery 14.4 Volt / 2.6 Ah and charger, in carrying case with spring loaded trigger system

Part no. 724 0160

PowerBird® – Versatility

Blind rivets from 4.8 mm Ø steel, up to 6.4 mm Ø all materials and up to 8 mm alu, except G-Bulb® Ø 6.4 mm. Bulb-tite® blind rivets up to 7.7 mm Ø all materials. Mega Grip® blind rivets up to 6.4 mm Ø all materials.



Rechargeable 14.4 volt power battery riveting tool with Li-Ion battery for even higher performance

Working range

Blind rivets from 4.8 mm Ø steel , up to 8 mm Ø alu and up to 6.4 mm all materials, except G-Bulb® Ø 6.4 mm. BULB-TITE® blind rivets up to 7.7 mm Ø all materials. MEGA GRIP® blind rivets up to 6.4 mm Ø all materials.

Technical data

Weight: 2.2kg with battery
Stroke: 20 mm
Drive: DC motor
Traction power: 14,000 N

Nosepieces / accessories

Nosepieces: 17/32, 17/36, 17/40 and 17/45

Jaws (3 parts)

Part no. 710 2208

Nosepiece - power per battery charge

Rivet Ø mm	Rivet material	approx. pc/battery charge	Nosepiece	Part no.
4.8 and 5.0	Steel, Alu	700	17/32	725 2067
4.8 and 5.0	Stainless steel	560	17/36	725 2083
6.0	Alu	560	17/36	725 2083
6.0	Steel	300	17/40	725 2560
6.4	Alu, PG-Alu	420	17/45	724 3065
6.4	Steel	250	17/45	724 3065
8	Alu	350	17/45	724 3065

BULB-TITE® blind rivet				
4.0	Alu	1,000	17/26 BT*	725 2202
5.2	Alu	900	17/32 BT*	725 2210
6.3	Alu	590	17/42 BT*	725 2229
6.3	Steel	310	17/42 BT*	725 2229
6.3	Monel	380	17/42 BT*	725 2229
7.7	Alu	470	17/48 BT*	725 2237
			and jaws	715 1527

MEGA GRIP® blind rivet				
4.8	Alu	600	17/31 MG*	725 2250
6.4	Alu	420	17/41 MG*	724 3146
4.8	Steel	420	17/31 MG*	725 2250
6.4	Steel	150	17/41 MG*	724 3146
4.8	Stainless steel	420	17/31 MG*	725 2250
6.4	Stainless steel	150	17/41 MG*	724 3146

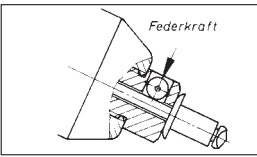
* Available as special accessory
Special design nosepieces are available on request



The experts in blind riveting

Special accessory: Retaining nosepiece

- Inserted rivet remains in any position
- Rivets may be set with only one hand
- Safer work



Retaining nosepiece	Part no.	Retaining nosepiece	Part no.
17/40 R	725 4125	17/45 R	725 4126

Charger 14.4 V Li-Ion

Part no. 725 1134



Technical data

Input voltage: 230 V / 50 Hz
Output voltage: 14.4 V DC
Recharging time: 50 to 100 minutes (battery depending)
Weight: 0.6 g

Battery

14.4 V/1.3 Ah (Li-Ion)

Part no. 725 1045
Available as special accessory
Weight: 0.35 g

Power battery

14.4 V/2.6 Ah (Li-Ion)

Part no. 725 1049
Weight: 0.5 g



Charger 12 V NiCd

Part no. 725 1035

One-piece, slim extension unit to approx. 110 mm, Ø 22.5 mm, for setting rivets in deep positions and with difficult access
Part no. 724 2054

One-piece, slim extension unit to approx. 160 mm, Ø 22.5 mm, for setting rivets in deep positions and with difficult access
Part no. 724 2055

Further dimensions available upon request

PowerBird® Solar

Special design for solar applications
Ideal for deep, difficult to access areas

Working range

Blind rivets from 4.8 mm Ø steel and up to 6.4 mm all materials, except G-Bulb® Ø 6.4 mm.
BULB-TITE® blind rivets up to 7.7 mm Ø all materials.
MEGA GRIP® blind rivets up to 6.4 mm Ø all materials.

Technical data

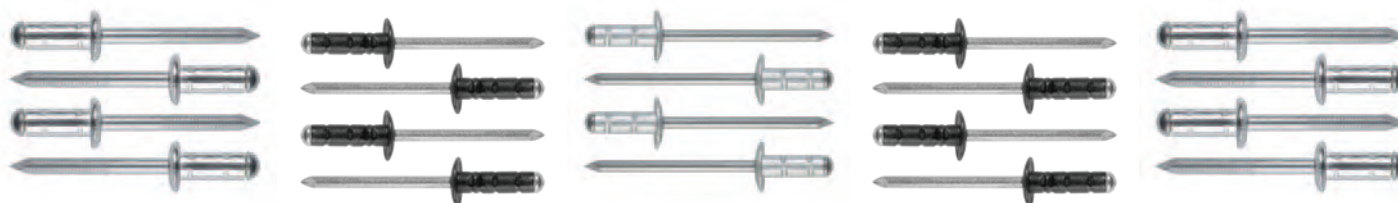
Weight:	2.36 kg with battery
Stroke:	20 mm
Drive:	DC motor
Traction power:	14,000 N
Extension unit:	approx. 160 mm

Nosepieces / accessories

approx. overall length 160 mm extension
two Li-Ion power batteries 2.6 Ah/14.4 V
Quick charger
Nosepieces 17/32, 17/36, 17/40, 17/45, and 17/48 BT
Plastic carrying case



Part no. 724 0041



The GESIPA® SolarGrip® blind rivet program can be found on page 30.

PowerBird® Gold Edition

**The exclusive Gold Edition
with 18,000 N traction power**

Strong - stronger – PowerBird® Gold Edition

PowerBird®, the all-rounder of the Bird family by GESIPA® with its wide range of application possibilities, is now available in an even stronger version: with a setting force of 18.000 N it can even set G-Bulb® and PolyGrip® blind rivets up to a diameter of 6.4 mm of all materials.

Practical - even more practical – PowerBird® Gold Edition

- Fatigue-free working through well balanced weight repartition and ergonomic grip
- Gravity controlled evacuation of spent mandrels: forward through the nosepiece or backwards into the mandrel container
- The immediate and automatic reset after each riveting process saves energy and speeds up the operation
- Exchange nosepieces and wrench always included in the tool eliminate work interruptions
- Compact, shockproof tool housing for all application conditions
- User oriented scope of delivery: plastic carrying case with one battery charger, one battery and four nosepieces (17/32, 17/36, 17/40, 17/45)

Nosepiece - power per battery charge

BULB-TITE®, PolyGrip®, G-Bulb® and standard blind rivet

Blind rivet Ø in mm	Material	approx. pc/battery charge	Nose- piece	Part no.
4.8 and 5.0	Steel, Alu	700	17/32	725 2067
4.8 and 5.0	Stainless steel, Stinox, PG- steel, PG stainless steel	560	17/36	725 2083
6.0	Alu	560	17/36	725 2083
6.0	Steel	300	17/40	725 2560
6.4	Alu	420	17/40	725 2560
6.4	Steel, PG-steel, Alu/alu, Stainless steel	250	17/45	724 3065
8	Alu	350	17/45	724 3065

G-Bulb® Blind rivet

4.8	Steel/steel	530	17/32	725 2067
6.4	Steel/steel	390	17/45	724 3065
4.8	Stainless steel/stainless steel	470	17/32	725 2067
6.4	Stainless steel/stainless steel	390	17/45	724 3065

MEGA GRIP® blind rivet

4.8	Alu	600	17/31 MG*	725 2250
6.4	Alu	420	17/41 MG*	724 3146
4.8	Steel	420	17/31 MG*	725 2250
6.4	Steel	150	17/41 MG*	724 3146
4.8	Stainless steel	420	17/31 MG*	724 2250
6.4	Stainless steel	150	17/41 MG*	724 3146

BULB-TITE® blind rivet

4.0	Alu	1,000	17/26 BT*	725 2202
5.2	Alu	900	17/32 BT*	725 2210
6.3	Alu	590	17/42 BT*	725 2229
6.3	Steel	310	17/42 BT*	725 2229
6.3	Monel/stainless steel	380	17/42 BT*	725 2229
7.7	Alu	470	17/48 BT*	725 2237
			and jaws*	715 1527

* Available as special accessory. Special design nosepieces are available on request

The experts in blind riveting



The all-round talent – PowerBird® Gold Edition

Processes blind rivets from Ø 4.8 mm steel to Ø 6.4 mm all materials, BULB-TITE® blind rivets up to Ø 7.7 mm, all materials, MEGA GRIP® blind rivets up to Ø 6.6 mm alu and steel, G-Bulb® blind rivets up to Ø 6.4 mm all materials, PolyGrip® blind rivet up to Ø 6.4 mm all materials.

PowerBird® Gold Edition – Technical data

Traction power: 18,000
Weight (incl.
power battery): 2.2 kg
Drive:
DC motor
Working stroke: 20 mm



PowerBird® Gold Edition
with power battery 14.4 Volt / 2.6 Ah and charger,
in plastic carrying case,
Part no. 724 0001

PowerBird® Gold Edition
with spring loaded trigger system
with power battery 14.4 Volt / 2.6 Ah and charger,
in plastic carrying case,
Part no. 724 0002

Jaws (3 parts) for PowerBird® Gold Edition
Part no. 710 2208

Versions with spring

The proven surface contact trigger of the TAURUS series is now also available for AccuBird® and PowerBird®

This feature ensures that the materials of the riveting application will be pressed together before the rivet is installed, thus avoiding gaps in between. Moreover the operator will be certain that the rivet has reached its end position in the application and that the setting head is in contact with the upper side of the material. The spring force can be designed variably with springs depending on the application.

AccuBird® with spring loaded trigger system

AccuBird® with battery 14.4 V / 1.3 Ah and charger in metal carrying case, with spring loaded trigger system

Art.-Nr. 725 0015

Nosepieces

17/24, 17/27, 17/29 and 17/32

PowerBird® with spring loaded trigger system

PowerBird® with power battery 14.4 Volt / 2.6 Ah and charger, in metal carrying case, with spring loaded trigger system

Part no. 724 0160

Nosepieces

17/32, 17/36, 17/40 and 17/45

PowerBird® Solar with spring loaded trigger system

PowerBird® Solar with power battery 14.4 Volt / 2.6 Ah and charger, in plastic carrying case, with spring loaded trigger system

Part no. 724 0026



PowerBird® Gold Edition with spring loaded trigger system

PowerBird® Gold Edition with power battery 14.4 Volt / 2.6 Ah and charger, in plastic carrying case, with spring loaded trigger system

Part no. 724 0002

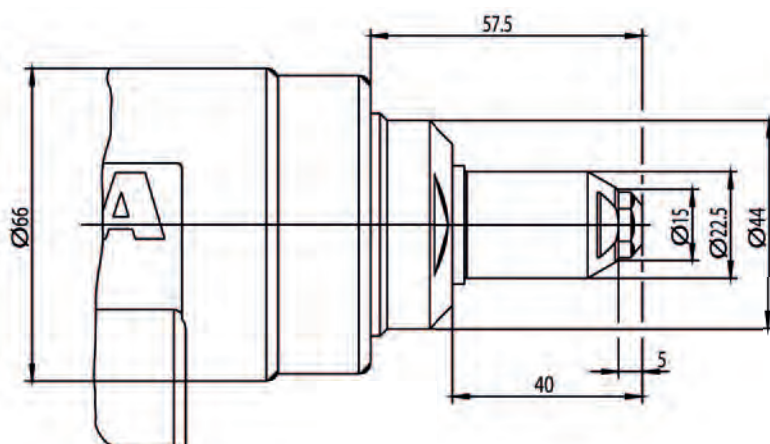


Nosepieces

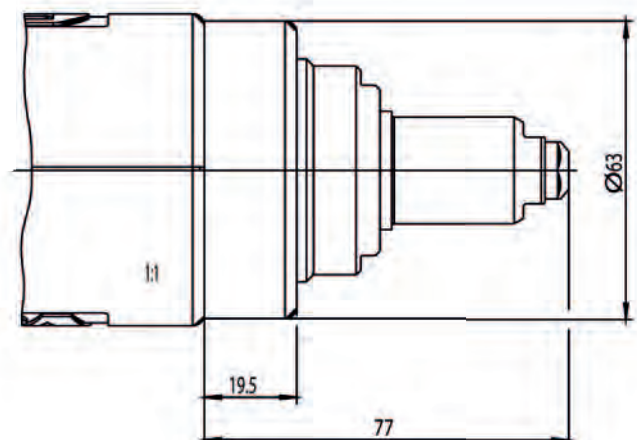
17/32, 17/36, 17/40 and 17/45
approx. overall length 160 mm extension

Nosepieces

17/32, 17/36, 17/40 and 17/45

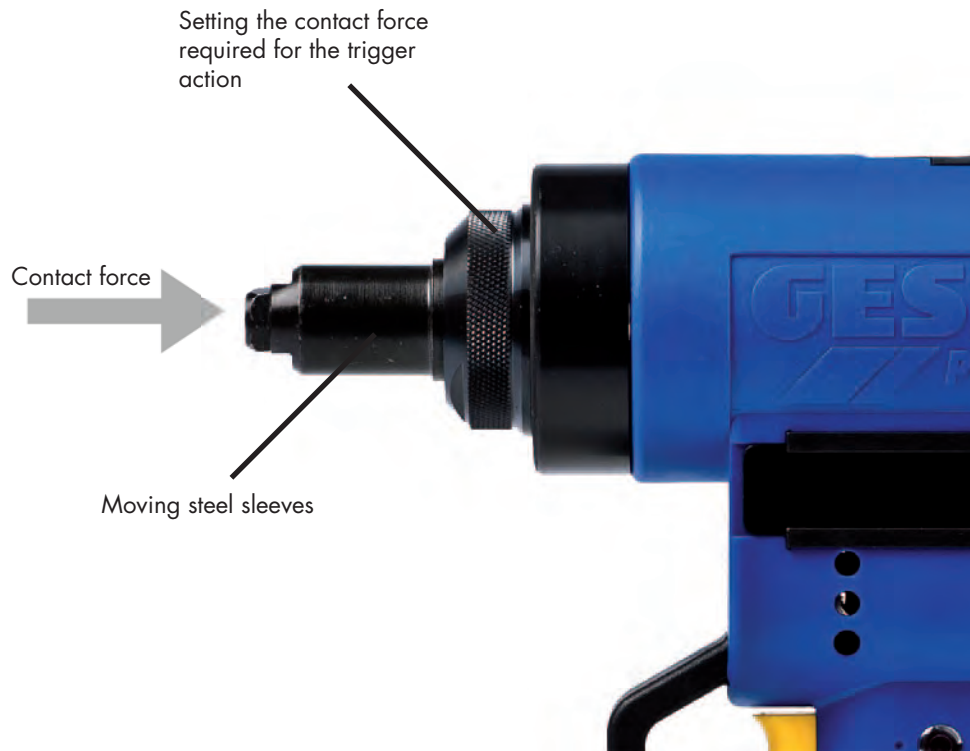


PowerBird® dimension drawing with spring loaded trigger system



loaded trigger system

Ensuring correct processing of the blind rivets by means of a defined contact pressure



Process-secure blind riveting even of parts with gaps or recoiling elements

The function

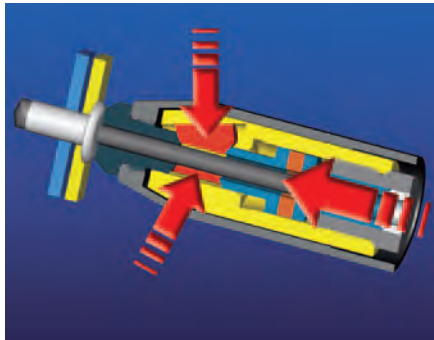
The surface contact trigger mechanism is also installed on the trigger button of the device. It only allows the rivet device to be triggered if a settable compressive force on the part is reached. This ensures that the various components of the application are pressed correctly onto each other before the riveting process. In turn, this means that the uncontrolled deformation of the rivet body between the materials is prevented, which would otherwise go undetected.

The surface contact force may vary in five steps. It is set by either adding or removing springs. This rules out the possibility of unintentionally adjusting the defined surface contact force. Push buttons are arranged in series in front of the standard trigger button. The rivet process can only be triggered by pressing the yellow trigger button when the spring force has been overcome and the defined surface contact force has been reached.

The pressure trigger is only supplied completely mounted. It cannot be retrofitted.

What makes the TAURUS tool series so unique

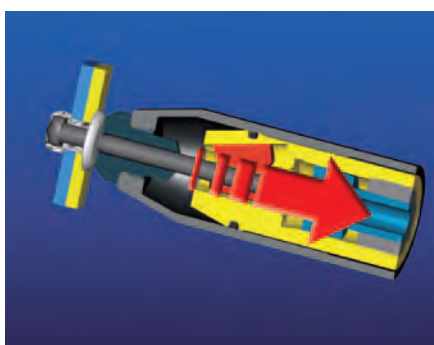
The GESIPA® System – a patented jaw system unique throughout the world



The TAURUS tool series is equipped with a high-performance, patented grip mechanism and jaw system:

- The three jaws move under perfect control in separate channels.
- The jaws are pressed on to the mandrel by the air pressure instead of spring force — with ten times the usual force.
- The jaws claw themselves onto the pins immediately upon actuating the riveting process due to the high pressure, before the pulling movement starts.

The GESIPA® System – the decisive advantages



This system offers the user decisive advantages:

- The complete stroke of the tool is used for setting the rivet, which guarantees a reliable setting process
- Soiling of the jaw profiles due to abrasion of material from the mandrel is significantly reduced because of less friction.
- Since the jaws do not slip along the mandrel, the wear of the jaw profiles is greatly reduced
- In short, lower costs due to longer service life, low maintenance requirement and low spare parts requirement

The GESIPA® System – optimum utilisation of the compressed air ensures maximum efficiency

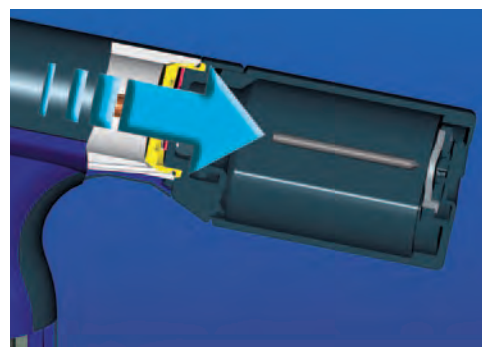
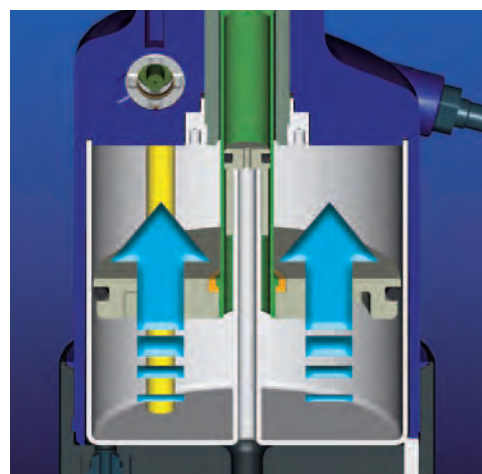
Compressed air is used very frequently in industrial production because of its flexibility, although it has the disadvantage that it incurs relatively high costs, and the consumption places stress on the environment.

For GESIPA®, more than enough reasons to equip the TAURUS tool series with a compressed air-saving technique unique throughout the world.

The compressed air required for the setting of the blind rivet is used a second time for ejection of the rivet mandrel. The dual use of the compressed air therefore requires no additional air for ejection of the broken mandrels, whereas in other tools, continuous airflow is necessary for the same.

This also allows the TAURUS tool series to operate with extremely low noise emissions.

In two-shift operation and with compressed air costs of approx. € 0.03/m³ this innovative technique can produce savings of up to € 720 per year and per tool. A TAURUS 2 can pay for itself in less than one year.



The **TAURUS** series — advantages at a glance

The pneumatic-hydraulic blind rivet setting series, **TAURUS**, is celebrating its 10th anniversary this year. Since the market introduction of the **TAURUS 2** in the year 2002, the **TAURUS** series has managed to convince a thousand times over in trade and industry.



The following information particularly apply to the high performance series of devices:

Modular principle for full series

- Compatible same parts — low spare part stocks required and simple maintenance

Power

- High setting forces combined with low weight
- Fast work cycle
- Optimised lift for the entire series

Efficiency

- Little compressed air consumption thanks to dual function: setting the rivets and extracting the spent mandrels
- Extraction unit can also be connected via lockable slide switch

Work comfort / safety

- Rubberised, moulded grip
- Balanced centre of gravity
- Low-vibration and soundproofed
- Little activation force required
- Mandrel collection unit with swivelling air deflector
- Overpressure valve for prevention of overload
- Very little recoil
- Integrated protection feature prevents the ejection of spent mandrels when the collection unit is in working position

Patented handel mechanism

- With forcibly actuated gripper jaws and pneumatic pressing
- Very long service lives
- Safe, non-slip gripping of the rivet mandrel
- Just one model for all dimensions



TAURUS series

Pneumatic-



TAURUS 1

Part no. 756 0001

Working range

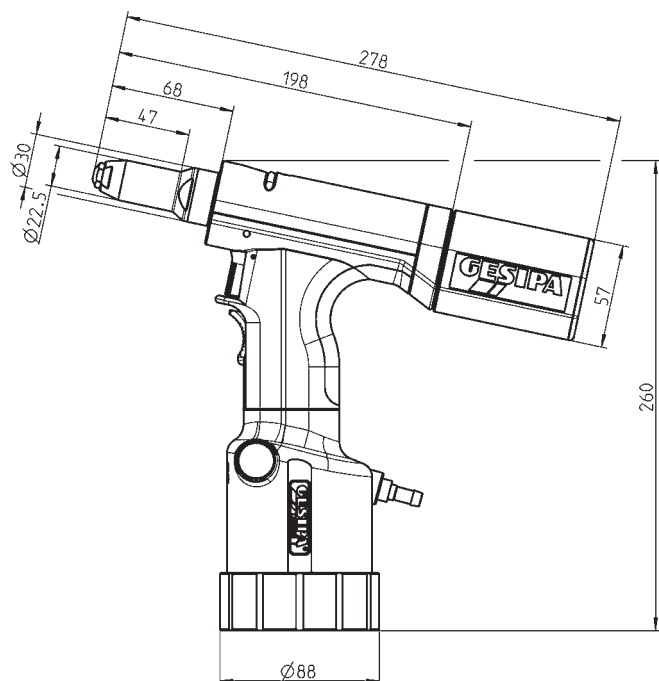
Blind rivets from 2.4 to 3.2 mm Ø all materials and up to 4 mm Ø alu/steel (max. mandrel dia. 2.5 mm)

Technical data

Weight:	1.3 g
Operating air pressure:	5-7 bar
Air hose connection:	6 mm Ø (1/4")
Air consumption:	approx. 1.0 ltr. per rivet
Traction power:	4,200 N at 5 bar
Stroke:	15 mm

Nosepieces / accessories

Nosepieces
17/18, 17/24 and 17/27
Maintenance wrench SW12/14, SW14/17
1 hydraulic oil bottle 100 ml
1 oil refill can
Operating instructions with spare parts list



TAURUS 2

Part no. 757 0007

Working range

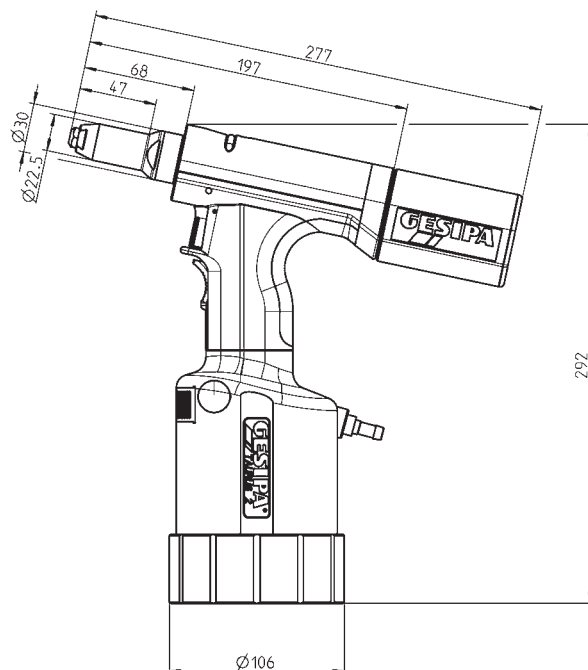
Blind rivets up to 5 mm Ø all materials and up to 6 mm Ø alu/steel (max. mandrel Ø 3.2 mm)

Technical data

Weight:	1.6 g
Operating air pressure:	5-7 bar
Air hose connection:	6 mm Ø (1/4")
Air consumption:	approx. 2.3 ltr. per rivet
Traction power:	9,000 N at 5 bar
Stroke:	18 mm

Nosepieces / accessories

Nosepieces
17/27, 17/29 und 17/32 und 17/36
Maintenance wrench SW12/14, SW14/17
1 hydraulic oil bottle 100 ml
1 oil refill can
Operating instructions with spare parts list



hydraulic blind rivet setting tools



TAURUS 3

Part no. 758 0002

Working range

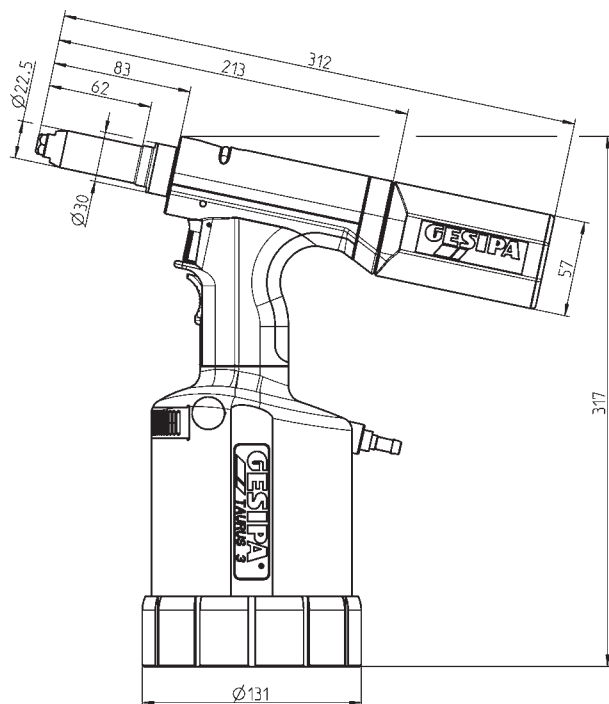
Blind rivets up to 6.4 mm Ø all materials
(max. mandrel Ø 4.5 mm)

Technical data

Weight: 1.9 g
Operating air pressure: 5-7 bar
Air hose connection: 6 mm Ø (1/4")
Air consumption: approx. 4.8 ltr. per rivet
Traction power: 14,000 N at 5 bar
Stroke: 25 mm

Nosepieces / accessories

Nosepieces
17/36, 17/40 und 17/45
Maintenance wrench SW12/14, SW14/17
1 hydraulic oil bottle 100 ml
1 oil refill can
Operating instructions with spare parts list



TAURUS 4

Part no. 759 0001

Working range

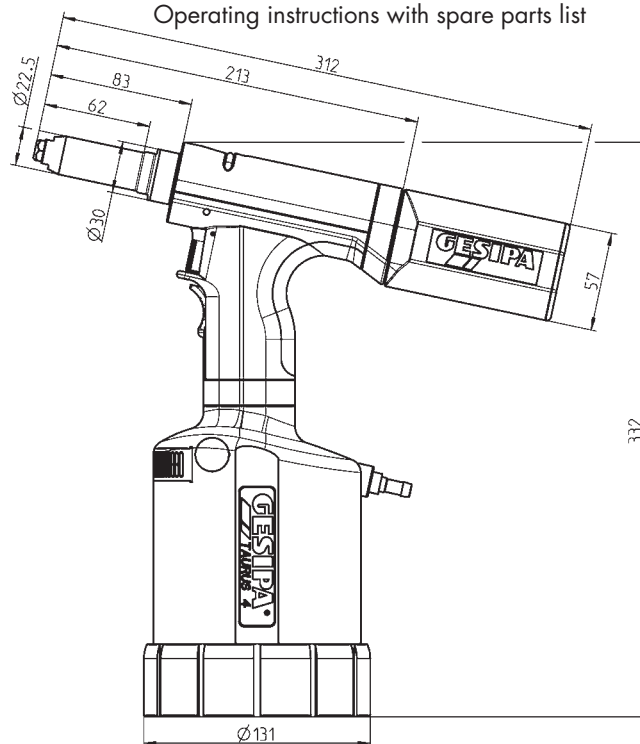
Blind rivets up to 6.4 mm Ø all materials
and up to 8 mm Ø alu (max. mandrel Ø 4.5 mm)

Technical data

Weight: 2.0 g
Operating air pressure: 5-7 bar
Air hose connection: 6 mm Ø (1/4")
Air consumption: approx. 4.8 ltr. per rivet
Traction power: 20,000 N at 5 bar
Stroke: 19 mm

Nosepieces / accessories

Nosepieces
17/36, 17/40 and 17/45
Maintenance wrench SW12/14, SW14/17
1 hydraulic oil bottle 100 ml
1 oil refill can
Operating instructions with spare parts list



TAURUS series



TAURUS 5

Basic tool
Part no. 760 0001

Working range

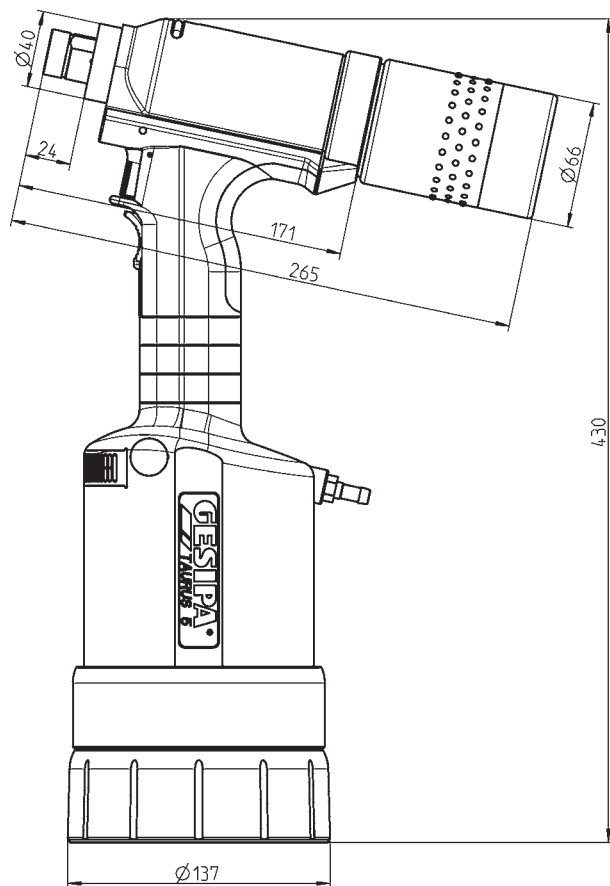
Blind rivets above 6.4 mm Ø all materials
and lockbolts up to 10 mm Ø with corresponding pulling heads

Technical data

Weight: 3.4 g
Operating air pressure: 5-7 bar
Air hose connection: 6 mm Ø (1/4")
Air consumption: approx. 6.9 ltr. per rivet
Traction power: 42,000 N at 7 bar
Stroke: 17 mm

Nosepieces / accessories

1 hydraulic oil bottle 100 ml
1 oil refill can
Operating instructions with spare parts list



TAURUS 6

Basic tool
Part no. 761 0002

Working range

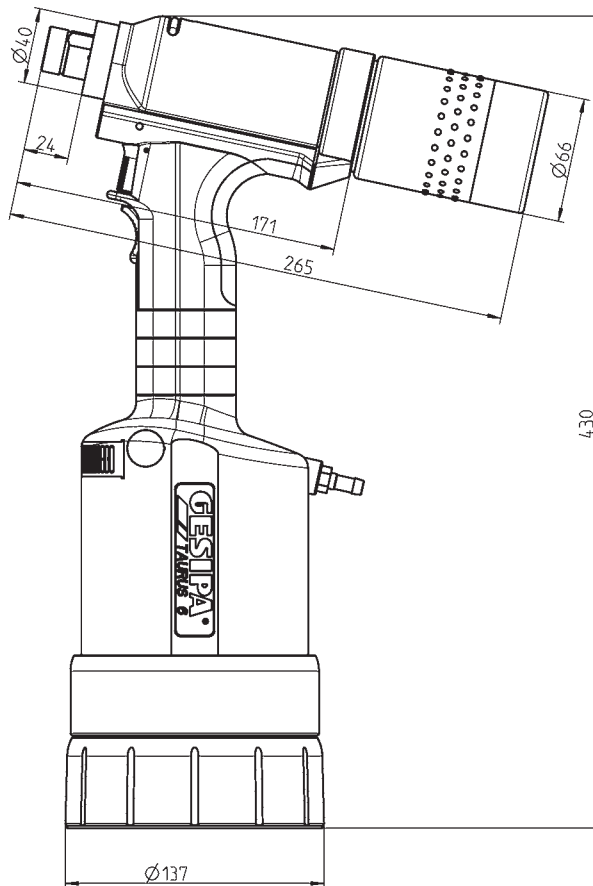
Blind rivets above 6.4 mm Ø all materials
and lockbolts up to 10 mm Ø with corresponding pulling heads

Technical data

Weight: 3.4 g
Operating air pressure: 5-7 bar
Air hose connection: 6 mm Ø (1/4")
Air consumption: approx. 6.9 ltr. per rivet
Traction power: 50,000 N at 7 bar
Stroke: 15 mm

Nosepieces / accessories

1 hydraulic oil bottle 100 ml
1 oil refill can
Operating instructions with spare parts list



TAURUS 5 and 6 need to be fitted with nosepieces to match the application.
Will be produced on request.

hydraulic blind rivet setting tools

Jaws (3 parts)

For the full **TAURUS** series
Part no. 756 1172

Swivel air connector

For the full **TAURUS** series
Part no. 756 1023

TAURUS conversion kit

For conversion to the PH 2000 spent
mandrel container
(description and full offer on page 74)

for **TAURUS 1**
Part no. 756 1104

For **TAURUS 2-4**
Part no. 756 1107

Mandrel extraction tube

For the full **TAURUS** series
Part no. 757 1356

Nosepieces

Rivet Ø mm	Rivet material	Nosepiece	Part no.
2.4	Alu	17/18	725 2075
3.2	CAP-Alu, CAP-Cu	17/18	725 2075
3 and 3.2	Alu, Cu, stainless steel, Stinox, PG-alu, PG-steel, PG stainless steel	17/24	725 1583
4	Alu, Cu, CAP-Alu, CAP-Cu	17/24	725 1583
4	Steel, Alu, PG-Alu	17/27	725 2040
4	Stainless steel, Stinox, PG-steel, PG stainless steel	17/29	725 2059
4.8 and 5	Alu, CAP-Alu, CAP-CU, PG-Alu	17/29	725 2059
4.8 and 5	Steel, Alu	17/32	725 2067
4.8 and 5	Stainless steel, Stinox, PG-steel, PG stainless steel G-BULB®	17/36	725 2083
6	Alu	17/36	725 2083
6	Steel	17/40	725 2560
6.4	Alu	17/40	725 2560
6.4	Stainless steel, alu, PG stainless steel, G-BULB®	17/45	724 3065
8	Alu	17/45	724 3065

BULB-TITE® blind rivets

4	Alu	17/26 BT*	725 2202
5.2	Alu	17/32 BT*	725 2210
6.3	Alu, steel, monel	17/42 BT*	725 2229
7.7	Alu	17/48 BT*	725 2237

MEGA GRIP® blind rivet

4.8	Alu, steel, stainless steel	17/31 MG*	725 2250
6.4	Alu, steel, stainless steel	17/41 MG*	724 3146

* Extended nosepieces and other special designs available on request

Head modules for TAURUS 5 and 6

Adaptation takes priority

The **TAURUS 5** and **6** riveting tools must be adapted to the different kinds of rivets and lockbolts through specific pulling head modules.



Head module for 7.8mm Titgemeyer TIBULB*
Part no. 760 0201

Head module for 9.8mm Huck Magna-Lok®*
Part no. 760 0202

NEW Head module for lockbolt 6 (3/16") Huck C6L®*
Part no. 760 1070

NEW Head module for lockbolt 8 (1/4") Huck C6L®*
Part no. 760 1071

NEW Head module for lockbolt 8 (3/16") Huck Magna-Grip®*
Part no. 760 1072

NEW Head module for lockbolt 8 (1/4") Huck C6L®* Huck Magna-Grip®*
Part no. 760 1073

Other head modules on request

* Some registered trademarks of the companies TITGEMEYER GmbH & Co. KG and Alcoa Fastening Systems

TAURUS versions

TAURUS with counter device

The tool is equipped with a sensor which detects the evacuation of the spent mandrel after the setting process is complete. The sensor is installed just in front of the mandrel container and connected either to a local control and display unit GRivCount or to a centralized monitoring system via the line amplifier GRivAmp.



GRiv-Count



GRiv-Amp



TAURUS 1-4 (with counter device)

TAURUS tools for stationary use in production systems

The TAURUS tools can be integrated as stationary units in automatic production systems, and operated by remote control if required.

The presence of the blind rivet in the nosepiece can optionally be detected with the aid of a low-pressure connection. The spent mandrel can be disposed of by means of an evacuation tube if required, and also monitored by a sensor. In such stationary production systems, several tools can be operated automatically and simultaneously, enabling a high level of efficiency.

TAURUS with setting process monitoring

The setting process monitoring is achieved by a direct on-line analysis of traction force and traction course recorded during the setting of the rivet. All system components necessary for operation are included in the tool itself. The setting analysis takes less than 1 microsecond and its result is directly displayed by a green or red LED installed in the tool base and, optionally, by a warning tone. Moreover, a collective analysis of the complete work piece is also included. The tool stores more than 260.000 individual setting processes, which can be recalled at any time. The system also identifies failure patterns and memorizes those for failure analysis and troubleshooting. The tools can be operated as stand-alone or as part of integrated production systems using the GESIPA® interface.



GESIPA®-Interface

TAURUS 1-4 (with setting process monitoring)



TAURUS versions

C-frame for TAURUS 1 to 6

After replacing the blind rivet setting head with the C-frame adapter, all the tools of the **TAURUS** series are capable of setting tubular, semi-tubular and solid rivets.

Every tool of the **TAURUS** series can be equipped with a C-frame adapter for the setting of tubular, semi-tubular and solid rivets and the production or repair of semi-tubular and solid rivet joints. Further application options include clinching, hole punching and caulking.

The C-frame adapter can be changed quickly and easily for the original blind rivet head of the **TAURUS** series or for another C-frame adapter.

Technical data

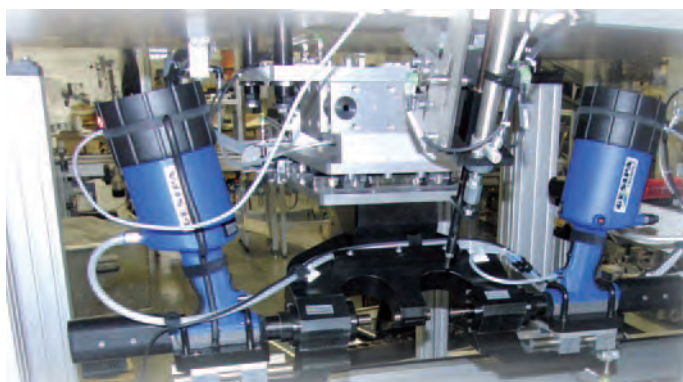
Drive force: 5,000 to 50,000 N
Stroke: 15 mm to 25 mm
Operating air pressure: 5-7 bar
Air hose connection: 6 mm Ø (1/4")
Weight: approx. 1.9 to 3.9 kg (without C-frame)

Advantages

- Flexible use
- Simple and safe pneumatic force control
- Faster, simpler and reversible exchange of the original blind rivet head for a frame unit in any standard **TAURUS** series tool
- Pneumatic extraction of the punched piece
- Simple tool change



The C-frame adapters have a 360° swivel capability, efficient working sequence and an accurately adjustable setting stroke.



Double-C-frame in use

The design, order and delivery of the **TAURUS**-C-frame and the corresponding connector takes place through the GESIPA® subsidiary W+O Niettechnik GmbH. Speak to our technical sales.

All of the above TAURUS variants are special productions, which are configured or manufactured according to the application case. For advice further questions and price information, please contact our Technical Sales team.

TAURUS with spring loaded trigger system



This feature ensures that the materials of the riveting application will be pressed together before the rivet is installed, thus avoiding gaps in between. Moreover the operator will be certain that the rivet has reached its end position in the application and that the setting head is in contact with the upper side of the material before the riveting process is started. The spring force can be designed variably with springs depending on the application.

TAURUS 1 (with spring loaded trigger system)
Part no. 756 0021

TAURUS 2
(with spring loaded trigger system)
Part no. 757 0016

TAURUS 3 (with spring loaded trigger system)
Part no. 758 0005

TAURUS 4
(with spring loaded trigger system)
Part no. 759 0002

TAURUS versions

TAURUS with PH 2000 spent mandrel container

The fixed mounted, large PH 2000 mandrel container is very sturdy and particularly suited to long mandrels from 50 to 70 mm in length. The container fits all **TAURUS versions 1 to 4**.

TAURUS 1 (with PH 2000 mandrel container)
Part no. 756 0005

TAURUS 3 (with PH 2000 mandrel container)
Part no. 758 0011

TAURUS 2 (with PH 2000 mandrel container)
Part no. 757 0018

TAURUS 4 (with PH 2000 mandrel container)
Part no. 759 0007

You will find the corresponding conversion kits on page 71



Angle head 90° for TAURUS 1-4

NEW

Description

Using the angular head 90° for the Taurus 1-4 means that, depending on the device type, standard blind rivets up to a diameter of 6.4 mm can be set in all materials. The smallest edge clearance is 15 mm, the head length is 110 mm. The angular head can be freely positioned anywhere (360°) along the Taurus tensile axis.

Application

The angular head is designed for use in tight spaces. Its sturdy design allows it to apply large setting forces when fitting blind rivets even in difficult to access work areas.



Advantages

- Realisation of small edge clearances (15 mm)
- High setting force with low installation area (up to 20 kN)
- Large stroke (up to 23 mm)
- Simple assembly
- Compact and robust design
- Simple jaws maintenance
- Use of standard jaws
- Low vibration, even at high breaking force level

Part no. 758 0101

Small jaw assembly for TAURUS 1 and 2



for TAURUS 1
Part no. 756 1120

for TAURUS 2
Part no. 757 1077

Area of use

- Processing alu/steel blind rivets up to Ø 5mm and steel/steel up to Ø 4mm with **TAURUS 1 and 2**
- Particularly suitable for hard to access rivet points

Technical data

Length : 100 mm
Head Ø: 18 mm

TAUREX 1 to 6

The complete TAURUS series with remote mounted pressure transducer, for versatility in critical applications

Areas of use

- All blind rivets and lockbolts up to a mandrel breaking force of 50 kN.
- Same performance and technical characteristics as the respective individual units in the **TAURUS** series 1-4, 5-6 with different stroke
- 3 metre hose length between pressure transducer and setting pistol

Common technical data

Operating air pressure:	5-7 bar
Air hose connection:	6 mm (1/4")
Noise emission:	max. 79 dB
Vibrations:	< 2.9 m/s ²

Advantages at a glance

- Low weight of the handheld tool
- Tubing connection with quick-connect feature (upon request) on the pressure transducer side: No oil leak and no air bleeding
- Ideally suited for setting of blind rivets and lockbolts in poorly accessible locations
- Also perfectly designed for fixed installation in production lines or semi-automatic workstations
- Can be combined with almost all supplements and options of the TAURUS series: head extensions, mandrel containers, rivet counting units, process control, pressure trigger and remote control

TAUREX 1
Part no. 764 0001
TAUREX 2
Part no. 765 0001

TAUREX 3
Part no. 766 0001
TAUREX 4
Part no. 767 0001

TAUREX 5
Part no. 768 0001
TAUREX 6
Part no. 769 0001



TAUREX 5 multiple riveting head

Description

The multiple riveting head is designed to set several standard blind rivets with a body diameter of 6.4 mm simultaneously in all materials with low axial spacing. The axial spacing of the head module is adjusted for the relevant application. The axial spacing can be set from 20 mm to 35 mm.

Advantages

- Realisation of small rivet spacings
- High setting force with low installation area
- Easy installation in riveting stations or riveting machines
- Compact and robust design
- Jaw system driven by pneumatic air pressure
- Use of standard TAURUS jaws
- Switchable air intake
- Low vibration, even at high breaking force level
- Overpressure valve for prevention of overload

Application

The multiple riveting head is intended for use in riveting stations with multiple riveting and for semi-automatic operation. The flexible hose connection from the air cylinder to the riveting head enables space-saving installation in a riveting station.



Delivery time on request

TAURUS Axial eco



**The TAURUS-series 1-4 in axial version
– the cost-efficient introductory version
for special applications**



Available from end of 2012

Applications

The special pistols of **TAURUS Axial eco** offer the option of installation in production systems and simultaneously allow flexible and handheld ergonomic work in applications with restricted accessibility and even ones that required riveting from above.

In order to ensure that the components to be riveted can align with a gap and the setting head can make contact, the **TAURUS Axial eco** can be additionally supplied with a spring loaded trigger system.

Area of use

- Processing blind rivets from 6.4 Ø all materials and up to 8 mm Ø alu (max. mandrel dia. 4.5 mm)
- Same performance and technical data as the respective individual units in the **TAURUS** series

Technical data

Operating air pressure:	5-7 bar
Air hose connection:	6 mm (1/4")
Noise emission:	max. 79 dB
Vibrations:	< 2.9 m/s ²

TAURUS Axial eco — advantages at a glance

- Cost-efficient introductory version
- Perfectly designed for fixed installations on production lines or semi-automatic workstations
- Very practical for processing blind rivets in positions that require a vertical rivet setting process
- This can be equipped with almost all **TAURUS** series options:
e.g. extension units, blind rivet counter, set processing monitoring, spring loaded trigger system and remote control
- Can be suspended on a balancer
- Integrated mandrel evacuation for disposal of the spent mandrel

TAURUS 1 Axial eco
TAURUS 2 Axial eco
TAURUS 3 Axial eco
TAURUS 4 Axial eco

Part no. 756 0017
Part no. 757 0042
Part no. 758 0033
Part no. 759 0022

TAURUS 1 Axial eco with spring loaded trigger system
TAURUS 2 Axial eco with spring loaded trigger system
TAURUS 3 Axial eco with spring loaded trigger system
TAURUS 4 Axial eco with spring loaded trigger system

Part no. 756 0018
Part no. 757 0043
Part no. 758 0034
Part no. 759 0023

TAURUS Axial

NEW

The TAURUS-series 1-4 in axial version – for special applications

Applications

The special pistols of **TAURUS Axial** offer the option of installation in production systems and simultaneously allow flexible and handheld ergonomic work in applications with restricted accessibility and even ones that required riveting from above.

In order to ensure that the components to be riveted can align without a gap and the setting head can make contact, the **TAURUS Axial** can be additionally supplied with a spring loaded trigger system.

Area of use

- Processing blind rivets from 6.4 Ø all materials and up to 8 mm Ø alu (max. mandrel dia. 4.5 mm)
- Same performance and technical data as the respective individual units in the **TAURUS** series 1-4

Technical data

Operating air pressure:	5-7 bar
Air hose connection:	6 mm (1/4")
Noise emission:	max. 79 dB
Vibrations:	< 2.9 m/s ²



Available from end of 2012

TAURUS Axial — advantages at a glance

- Also perfectly designed for fixed installation in production lines or semi-automatic workstations
- Very practical for processing blind rivets in positions that require a vertical rivet setting process
- This can be equipped with almost all **TAURUS** series options:
e.g. extension units, blind rivet counter, set processing monitoring, spring loaded trigger system and remote control
- The handle in the rivet axis allows ergonomic work - especially in vertical applications.
- Affordable alternative to **TAUREX Axial** or **TAUREX Axial compact**
- Can be suspended on a balancer

TAURUS 1 Axial
TAURUS 2 Axial
TAURUS 3 Axial
TAURUS 4 Axial

Part no. 756 0023
Part no. 757 0039
Part no. 758 0028
Part no. 757 0040

TAURUS 1 Axial with spring loaded trigger system
TAURUS 2 Axial with spring loaded trigger system
TAURUS 3 Axial with spring loaded trigger system
TAURUS 4 Axial with spring loaded trigger system

Part no. 756 0024
Part no. 757 0040
Part no. 758 0029
Part no. 759 0019

TAUREX Axial compact

NEW

The TAURUS series 1-4 with an axial pressure intensifier mounted directly to the device – for use in tight working spaces

Applications

The **TAUREX Axial compact** is a particular advantage in enclosed spaces due to the pressure transducer mounted in the working direction.

The special pistols of **TAUREX Axial compact** offer the option of installation in production systems and simultaneously allow flexible and handheld ergonomic work in applications with restricted accessibility and even ones that required riveting from above.

In order to ensure that the components to be riveted can align without a gap and the setting head can make contact, the **TAUREX Axial compact** can be additionally supplied with a spring loaded trigger system.

Area of use

- Processing blind rivets from 6.4 Ø all materials and up to 8 mm Ø alu (max. mandrel dia. 4.5 mm)
- Same performance and technical data as the respective individual units in the **TAURUS** series 1-4

Technical data

Operating air pressure:	5-7 bar
Air hose connection:	6 mm (1/4")
Noise emission:	max. 79 dB
Vibrations:	< 2.9 m/s ²

Available from
end of 2012



TAUREX Axial compact — advantages at a glance

- Pressure intensifier attached in a space-saving manner directly to the device, i.e. also in applications in tight spaces
- The technical layout corresponds with the **TAUREX Axial**
- Also perfectly designed for fixed installation in production lines or semi-automatic workstations
- Very practical for processing blind rivets in positions that require a vertical rivet setting process
- This can be equipped with almost all **TAURUS** series options:
e.g. extension units, blind rivet counter, set processing monitoring, spring loaded trigger system and remote control
- The handle in the rivet axis allows ergonomic work - especially in vertical applications.
- Can be suspended on a balancer

TAUREX 1 Axial compact
TAUREX 2 Axial compact
TAUREX 3 Axial compact
TAUREX 4 Axial compact

Part no. 764 0004
Part no. 765 0005
Part no. 766 0011
Part no. 767 0006

TAUREX 1 Axial compact with spring loaded trigger system
TAUREX 2 Axial compact with spring loaded trigger system
TAUREX 3 Axial compact with spring loaded trigger system
TAUREX 4 Axial compact with spring loaded trigger system

Part no. 764 0005
Part no. 765 0006
Part no. 766 0012
Part no. 767 0007

TAUREX Axial

NEW

The TAURUS series 1-4 with remote mounted pressure transducer in axial version, making it move flexible, versatile and ergonomic



Applications

The TAUREX Axial is a particular advantage in enclosed spaces due to the separate pressure transducer mounted in the working direction.

The special pistols of **TAUREX Axial** offer the option of installation in production systems and simultaneously allow flexible and handheld ergonomic work in applications with restricted accessibility and even ones that require riveting from above.

In order to ensure that the components to be riveted can align without a gap and the setting head can make contact, the **TAUREX Axial** can be additionally supplied with a spring loaded trigger system.

Area of use

- Processing blind rivets from 6.4 Ø all materials and up to 8 mm Ø alu (max. mandrel dia. 4.5 mm)
- Same performance and technical data as the respective individual units in the **TAURUS** series 1-4
- 3 metre hose length between pressure transducer and setting pistol

Technical data

Operating air pressure:	5-7 bar
Air hose connection:	6 mm (1/4")
Noise emission:	max. 79 dB
Vibrations:	< 2.9 m/s ²

TAUREX Axial — advantages at a glance

- Also perfectly designed for fixed installation in production lines or semi-automatic workstations
- Very practical for processing blind rivets in positions that require a vertical rivet setting process
- Low weight of the hand held tool
- Tubing connection with quick-connect feature (upon request) on the pressure transducer side: No oil leak and no air bleeding
- This can be equipped with almost all **TAURUS** series options: e.g. extension units, blind rivet counter, set processing monitoring, spring loaded trigger system and remote control
- The handle in the rivet axle allows ergonomic work - especially in vertical applications.
- Can be suspended on a balancer

TAUREX 1 Axial
TAUREX 2 Axial
TAUREX 3 Axial
TAUREX 4 Axial

TAUREX 1 Axial with spring loaded trigger system
TAUREX 2 Axial with spring loaded trigger system
TAUREX 3 Axial with spring loaded trigger system
TAUREX 4 Axial with spring loaded trigger system

The experts in blind riveting

Part no. 764 0002
Part no. 765 0003
Part no. 766 0009
Part no. 767 0003

Part no. 764 0003
Part no. 765 0004
Part no. 766 0010
Part no. 767 0004



**Available from
end of 2012**

Hydro-pneumatic blind rivet setting tool

PH 1

Part no. 716 0011

Working range

Blind rivets up to 4 mm Ø all materials. Not suitable for setting stainless steel CAP blind rivets.

Technical data

Weight: 1.2 g
Operating air pressure: 6 bar
Air hose connection: 6 mm Ø (1/4")
Air consumption: 0.8-1.2 ltr. per rivet
(0.2 ltr. compr. air)
Traction power: 5,200 N at 5 bar
Stroke: 15 mm

Nosepieces / accessories

Nosepieces:
16/18, 16/24, 16/27 and 16/29
1 set of jaws, 1 spent mandrel bottle
1 maintenance wrench each of MSU and MSZ
Maintenance instructions with spare parts list

Jaws (2 parts) for PH 1

Part no. 705 2057



Features

- Hydraulic head in aluminium with wear-proof cylinder surface
- Pneumatic cylinder made of die cast aluminium
- The piston made of hardened and hard chromium plated steel make the device easy to handle and wear-proof
- Compact seals are wear-proof for a long service life
- Fast venting valve for fast return and high working sequence
- Low-noise pneumatic switching
- Simple, low-interruption valve design
- Hydraulic head can be adjusted by 360°
- Favourable centre of gravity and handle design for fatigue-free handling

Nosepieces for PH tools

Rivet Ø	Rivet material	PH 1	PH 2	PH 2-VK	PH-Axial	PH 2000	PH 2000-BT
2.4	Alu	16/18	10/18*	10/18	10/18*	10/18*	—
3.2	CAP-Alu, CAP-Cu	16/18	10/18*	10/18	10/18*	10/18*	—
3 and 3.2	Alu, Cu, steel, stainless steel, Stinox, Alu, PG-alu, PG-steel	16/24	10/24*	10/24	10/24*	10/24*	—
4	Alu, Cu, CAP-Alu, CAP-Cu	16/24	16/24	10/24	16/24	16/24	—
4	PG-Alu, Steel, Alu	16/27	16/27	10/27	16/27	16/27	—
4	Stainless steel, Stinox, PG-steel	16/29	16/29	—	16/29	16/29	—
5 and 4.8	Alu, CAP-Alu, CAP-Cu, PG-Alu	—	16/29	—	16/29	16/29	—
5 and 4.8	Steel, Alu	—	16/32	—	16/32	16/32	—
5 and 4.8	Stainless steel, Stinox, PG-steel	—	16/36	—	—	16/36	—
6	Alu	—	—	—	—	16/36	—
6	Steel	—	—	—	—	16/40	—
6.4	Alu, PG-Alu	—	—	—	—	16/40	—
6.4	Steel, Alu	—	—	—	—	16/45	—
4	Plastic	—	—	—	—	16/30K	—
5	Plastic	—	—	—	—	16/35K	—
6	Plastic	—	—	—	—	16/40K	—
4.8	all MEGA GRIP®	—	—	—	—	16/31MG	—
6.4	all MEGA GRIP®	—	—	—	—	16/41MG**	—
4	all BULB-TITE®	—	—	—	—	—	16/26BT
5.2	all BULB-TITE®	—	—	—	—	—	16/32BT
6.3	all BULB-TITE®	—	—	—	—	—	16/42BT
7.7	all BULB-TITE®	—	—	—	—	—	16/48BT

* Small jaw assembly required (see page 85)

** Conversion kit necessary (715 9714)

Hydro-pneumatic blind rivet setting tool

PH 2

Part no. 717 0017

Working range

Processes blind rivets from 3 to 5 mm
Ø all materials and blind rivets with
2.4 mm Ø with small jaws (page 72)
Not suitable for stainless steel CAP blind
rivets

Technical data

Weight:	1.3 g
Operating air pressure:	6 bar
Air hose connection:	6 mm Ø (1/4")
Air consumption:	1.2-1.8 ltr. per rivet (0.3 ltr. compr. air)
Traction power:	7,375 N at 5 bar
Stroke:	15 mm

Nosepieces / accessories

Nosepieces:
16/24, 16/27, 16/29, 16/32 and
16/36
1 set of jaws, 1 spent mandrel bottle
1 maintenance wrench each of MSU and
MSZ
Maintenance instructions with spare parts
list

Jaws (3 parts) for PH 2 and PH 2000

Part no. 710 2151



Features

- Hydraulic head made of aluminium with wear-proof cylinder surface
- Pneumatic cylinder made of die cast aluminium
- Pistons: Steel hardened and chrome-plated — smooth operation and wear-proof
- Compact seals are wear-proof for a long service life
- Fast venting valve for fast return and high working sequence
- Low-noise pneumatic switching
- Simple, low-interruption valve design
- Hydraulic head can be adjusted by 360°
- Favourable centre of gravity and handle design for fatigue-free handling

PH1 and PH2 with VAS (vacuum absorption system)



(See page 85 for description)

**PH 1 assembled with VAS
Part no. 716 0070**

**PH 2 assembled with VAS
Part no. 717 0033**

This device (VAS) absorbs the spent mandrel after the riveting operation and transports it automatically into the mandrel container. A further advantage is offered when the rivet, inserted into the nosepiece, is held in the jaw mechanism even if the tool head is in the vertical position. The vacuum absorption device is available as a complete built-in set and can also be retrofitted to existing GESIPA® riveting power tools at any time.

Hydro-pneumatic blind rivet setting tool

PH 2000

The blind rivet is held in position in the nosepiece whatever the position of the device

Device head in aluminium with wear-proof protective coat

Automatic ejection of the spent mandrel into the collection tank using the compressed air used for the setting process

Easy to operate trigger button

Detachable hand protection

Moulded grip

Aluminium cylinder with impact-resistance plastic sheath

Fixed stand rubber

Easy to empty by turning the tank casing

Collection tank — mounted in an accident-free manner

Part no. 715 0016

Working range

Blind rivets from 3 to 6.4 mm Ø all materials and blind rivets with 2.4mmØ with small jaw assembly (page 85)

Technical data

Weight: 1.9 g
Operating air pressure: 6 bar
Air hose connection: 6 mm Ø (1/4")
Air consumption: 2.8-3.6 ltr. per rivet
(0.6 ltr. compr. air)
Traction power: 10,000 N at 5 bar
Stroke: 22 mm

Nosepieces / accessories

Nosepieces:
16/24, 16/27, 16/29, 16/32, 16/36,
16/40 and 16/45
1 set of jaws, 1 air deflector (No. 896)
1 wrench MSU
1 ball headed screw driver SW 2.5
1 oil refill can with hydraulic oil
Maintenance instructions with spare parts list

Features

- The patented residual blind rivet mandrel disposal system with the extraction option is an integral part of the device. No retrofitting required.
- The compressed air used for the setting process is then used to automatically eject the threaded mandrel, an efficient solution.
- High setting force with low weight
- Universal use, easy handling
- Large device lift (22 mm) — guarantees setting without re-engagement and increases the oil refilling intervals
- Pneumatic piston return — high working sequence
- Hydraulic head: Aluminium with wear-proof cylinder surface
- Pneumatic cylinder: Aluminium with impact-resistant plastic sheath
- Trigger valve: Direct pneumatic triggering — fast and functionally reliable

Hydro-pneumatic blind rivet setting tool

PH 2000-BT

Working range

Blind rivets up to 7.7 mm Ø all materials

Technical data

Weight: 1.9 g
Operating air pressure: 6 bar
Air hose connection: 6 mm Ø (1/4")
Air consumption: 2.8-3.6 ltr. per rivet
(0.6 ltr. compr. air)
Traction power: 10,000 N at 5 bar
Stroke: 22 mm

Nosepieces / accessories

Nosepieces: 16/26 BT, 16/32 BT, 16/42 BT and 16/48 BT
1 nozzle tube no. 8080 a (built-in)
1 nozzle tube 8080 b (as accessory)
1 wrench MSU
1 ball headed screw driver SW 2.5
1 oil refill can with hydraulic oil
1 air deflector (part no. 896)
Maintenance instructions with spare parts list

Jaws (3 parts) for PH 2000-VK PH and 2000-BT

Part no. 715 1527

Part no. 715 0040

(only for BULB-TITE®)

Universal nosepiece

The universal nosepiece replaces five nosepiece sizes.

The integrated rotary star in the steel sleeve can be unlocked easily without tools in order to select the appropriate size of nosepiece.

More information on the universal nosepiece can be found on page 85



Article numbers for nosepieces

Article	Part no.	Article	Part no.	Article	Part no.	Article	Part no.	Article	Part no.
10/18	705 1182	16/18	717 1196	16/30K	714 1300	16/31MG	717 9669	16/26BT	717 1471
10/24	705 1247	16/24	717 1234	16/35K	714 1351	16/41MG	717 9677	16/32BT	717 1498
		16/27	717 1277	16/40K	714 1408			16/42BT	717 1501
		16/29	717 1293					16/48BT	717 1528
		16/32	717 1323						
		16/36	717 1366						
		16/40	717 1390						
		16/45	717 1455						
€ per pc	2.90		3.10		6.35		24.50		19.90

Hydro-pneumatic blind rivet setting tools

PH 2-VK



Part no. 717 0068

Working range

Blind rivets up to 4 mm Ø alu, steel and copper

Technical data

Weight: 1.3 g
 Operating air pressure: 6 bar
 Air hose connection: 6 mm Ø (1/4")
 Air consumption: 1.2-1.8 ltr. per rivet
 (0.3 ltr. compr. air)
 Traction power: 5,200 N at 5 bar
 Stroke: 14 mm

Nosepieces / accessories

Nosepieces: 10/18, 10/24 and 10/27
 1 spent mandrel bottle
 1 maintenance wrench each of MSU and MSZ
 Maintenance instructions and spare parts list

VK: Shorter version of the pistol head for difficult to access rivets

Jaws (2 parts) for PH 2-VK

Part no. 705 2057

PH Axial

Part no. 770 0008



Working range

Blind rivets from 4 to mm Ø steel and 2.4 to 3.2 mmØ with small jaw assembly (page 85)

Technical data

Weight: 1.8 g
 Operating air pressure: 6 bar
 Air hose connection: 6 mm Ø (1/4")
 Air consumption: 1.2-1.8 ltr. per rivet
 (0.3 ltr. compr. air)
 Traction power: 7,375 N at 5 bar
 Stroke: 15 mm

Nosepieces / accessories

Nosepieces:
 16/24, 16/27, 16/29 and 16/32
 Jaw pusher with reducing tube no. 125
 for 4 mm Ø blind rivets in alu and copper
 Ejection tube with socket for spent mandrels
 Maintenance instructions and spare parts list

Jaws (3 parts) for PH Axial

Part no. 710 2151

Features

- Pneumatic cylinder and hydraulic head with jaw mechanism arranged axially behind each other: simple and easy handling when used vertically (e.g. desktop assembly points)
- Integrated blind rivet suction and rivet mandrel ejection system: does not need to be retrofitted, secure disposal of the spent mandrels in a central tank via a hose
- Hydraulic head in aluminium with wear-proof cylinder surface
- Pneumatic cylinder made of die cast aluminium
- Working piston made of hardened and hard chromium plated steel make the device easy to handle and wear-proof
- Compact seals are wear-proof with large scraper effect, long service life
- Fast venting system: faster return; high work sequence
- Low-noise pneumatic switching
- Simple valve structure: interruption free

Special accessories for blind rivet setting tools

VAS

Vacuum absorption system for PH1 and PH2

Part no. 728 0017

This device absorbs the spent mandrel after the riveting operation and transports it automatically into the mandrel container. A further advantage is offered when the rivet, inserted into the nosepiece, is held in the jaw mechanism even if the tool head is in the vertical position. The vacuum absorption device is available as a complete built-in and can also be retrofitted to existing GESIPA® riveting power tools at any time.

Technical data

Weight of kit: 430 g
Operating air pressure: 4-6 bar

Equipment / accessories

1 air deflector (part no. 896)
1 wrench MSU
Maintenance instructions with spare parts list

Extension unit

For setting rivets in deep positions and with difficult access

for **PH 1 and PH 2**

Part no. 717 1641 (100mm)
Total length: approx. 160 mm

for **PH 2000**

Part no. 715 9994 (100mm)
Total length: approx. 160 mm

for **AccuBird®**

Part no. 725 2293 (100mm)
Total length: approx. 160 mm

for **PowerBird®**

Part no. 724 3278 (100mm)
Total length: approx. 160 mm

For **PowerBird® with spring loaded trigger system**

Part no. 724 2194 (50mm)
Part no. 724 3023 (100mm)
Total lengths: approx. 110 mm or 160 mm

Angle head for PH1 and PH2

Angle head for PH1 with 2 part jaws
Part no. 704 0016

Angle head for PH2 with 3 part jaws
Part no. 704 0024

The experts in blind riveting

Small jaw assembly for PH 1, PH2, PH 2000 and PH-Axial

With reduced head diameter (20 mm) and 2 part jaws

Working range

up to 4 mm Ø stainless steel and 5 mm Ø alu

Part number 198 (PH 1 and PH 2)

Part no. 717 1986

Part number 898 (PH 2000)

Part no. 715 8971

Part number 298 (PH Axial)

Part no. 770 2981

Equipment / accessories

Standard: nosepiece 10/24
(also with optional nosepiece 10/18 10/27, 10/29, 10/32)

For **TAURUS 1**

Part no. 756 2013 (50mm)

Part no. 756 2015 (100mm)

Total lengths: approx. 100 mm or 150 mm

For **TAURUS 2**

Part no. 757 1016 (50mm)

Part no. 757 1019 (100mm)

Part no. 757 1072 (200mm)

Total lengths: approx. 100 mm, 150 mm or 200 mm

For **TAURUS 3 and 4**

Part no. 758 1021 (50mm)

Part no. 758 1023 (100mm)

Part no. 758 1035 (150mm)

Total lengths: approx. 100 mm, 150 mm or 200 mm



Further dimensions available upon request

For setting rivets in places with difficult access and in corners



Universal nosepiece for blind rivet tools HN 2, PH 1, PH2, PH2000 and AccuBird®

The universal nosepiece replaces five nosepiece sizes.

The integrated rotary star in the steel sleeve can be unlocked easily without tools in order to select the appropriate size of nosepiece.

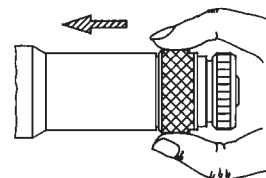


Working range

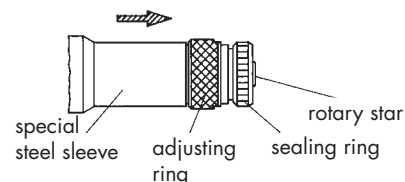
Blind rivets from 2.4 to 5 mm Ø alu, steel and copper and 4 mm Ø stainless steel

Operation

Operate the tool and hold the trigger, then push back adjusting ring to end position.



By turning the rotary star select required nosepiece and release the trigger which automatically locks the rotary star.



The universal nosepiece comprises: Special steel sleeve, complete adjusting ring, rotary star and sealing ring.

For HN 2, PH 1, PH 2, PH 2-KA and PH 2000

Universal nosepiece – 16
Part no. 717 1188

For AccuBird®

Universal nosepiece – 17
Part no. 725 1637

GAV 8000 eco
GAV 8000 electronic
GAV HF



GESIPA®-Blind rivet machines:
fully-automatic – practical – reliable

Comparison of GAV 8000 eco, electronic and GAV HF



	GAV 8000 eco and GAV 8000 electronic	GAV HF
Supply unit		
Weight	100 kg	270 kg
Spent mandrel container volume	approx. 1,800 to 5,500 pcs (3.5 l) depending on size	approx. 1,800 to 5,500 pcs (3.5 l) depending on size
Electrics		
Nominal voltage	230 Volt ~ 50 Hz	230 Volt ~ 50 Hz
Nominal current	< 2.5 A	< 8 A
Protection class	IP 54	IP 54
Pneumatics		
Supply pressure	< 10 bar	< 10 bar
Operating pressure	6 - 7 bar	5.2 bar
Air consumption/riveting	15 NL	30 NL
Air consumption/spent mandrel extraction	340 NL / min.	340 NL / min.
Connection line	½" (12.5 mm) max. length 5 m	¾" (18.75 mm) max. length 5 m
Rest mandrel extraction tube	Outer Ø 8 mm/ Inner Ø 5 mm	Outer Ø 10 mm/ Inner Ø 6 mm
Pressure transducer	hydro-pneumatic	hydro-pneumatic
Rivet pistol		
Weight	approx. 2.5 kg	approx. 7 kg
Stroke	16 - 20 mm	20 mm
Traction power	11,770 N	25,000 N
Standard tube package length	3.75 m	6 m
Working cycle (theoretical)	1.25 sec.	2 sec.

On request our technical sales team will send you more information about application possibilities in your company.

Automatic riveting machine

GAV 8000 eco

Fully-automatic blind rivet processing system and cost-optimised variant of the GAV 8000 electronic without setting process monitoring

Working range

- Blind rivets up from 2.4 mm to 6.4 mm Ø alu and copper
- Blind rivets up to 6 mm Ø steel
- Blind rivets up to 5 mm Ø stainless steel
- Blind rivets up to flange diameter 11.4 mm
- Rivet body lengths above 30 mm
- Traction power up to 11,770 N at 6-7 bar air pressure

Productivity and savings potential

- Up to 40 blind rivets can be processed every minute
- No trained personnel required for operation
- Can be easily integrated into fully-automatic production systems

System description

- Electronic system controls
- Intuitive menu guidance via navigation and function keys
- Function display
- Maintenance display and simple fault diagnosis
- Customer-specific software modification is possible
- Ideal for applications that do not require any process monitoring
- Rivet mandrels are disposed of via a vacuum system
- Surface contact trigger available as an optional extra
- Can be integrated into the system or operated independently
- Interface for external memory-programmable control system (SPS) can be realised via the GESIPA®-Interface



Advice and delivery time on request

Subsequent upgrade to GAV 8000 electronic possible in our Walldorf factory at extra price



Automatic riveting machine GAV 8000 electronic

Fully automatic blind rivet system for industrial production with setting process monitoring

Working range

- Blind rivets up from 2.4 mm to 6.4 mm Ø alu and copper
- Blind rivets up to 6 mm Ø steel
- Blind rivets up to 5 mm Ø stainless steel
- Blind rivets up to flange diameter 11.4 mm
- Rivet body lengths above 30 mm
- Traction power up to 11,770 N at 6-7 bar air pressure

Productivity and savings potential

- Cost-effective from an annual quantity of around 500.000 blind rivets (in relation to the German market)
- Up to 50 % time and costs savings compared to standard blind rivet devices
- Rivet pistol has a large action radius thanks to the hose package that is up to 5 m in length (standard length 3.75 m)
- No trained personnel required for operation
- Can be easily integrated into fully-automatic production systems
- Up to 40 blind rivets can be processed every minute



Advice and delivery time on request

System description

- Electronic system controls
- Intuitive menu guidance via navigation and function keys
- Function display
- Maintenance display and simple fault diagnosis
- Customer-specific software modification is possible
- Rivet mandrels are disposed of via a vacuum system
- Surface contact trigger available as an optional extra
- Can be integrated into the system or operated independently
- Interface for external memory-programmable control system (SPS) can be realised via the GESIPA®-Interface



Pistol versions for GAV 8000 eco and GAV 8000 electronic



Specific workstation configuration

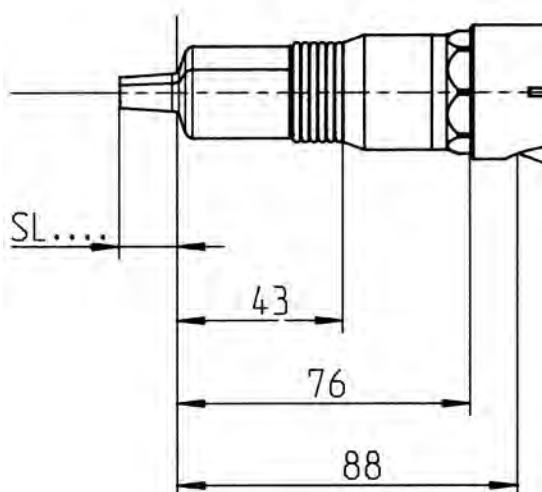
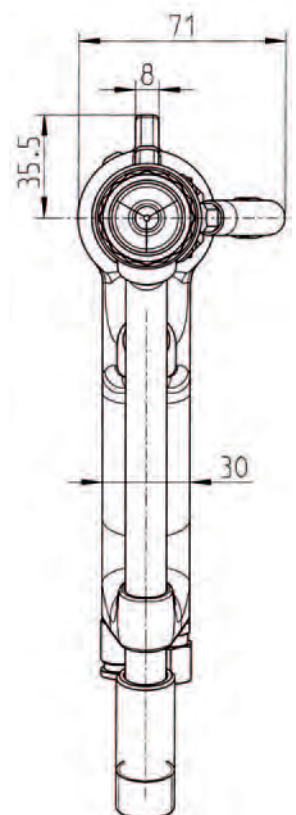
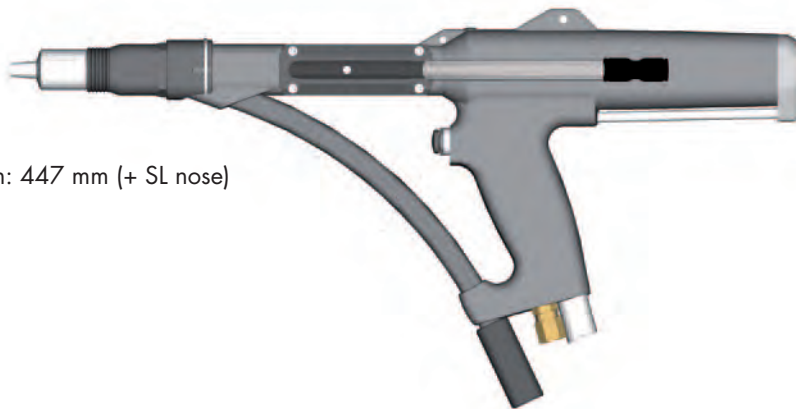
For all GAV versions, three different setting pistol variants are available for the ideal configuration of the workstation.

For manual workstations, pistols are available as overhead versions with overhead hose assembly or standard pistols with floor-mounted hose assembly. Both versions are equipped with a balancer to ensure fatigue-free working. The robotic pistol has been developed exclusively for use in fully automatic production systems or robot-controlled systems. It is supplied from stock with corresponding drilled holes for easy installation. For further questions, please contact our Technical Sales team.

A setting pistol suitable for your application is supplied at time of delivery.

Standard pistol

Total length: 447 mm (+ SL nose)



The standard pistol is primarily used for manual operator-controlled use.

The advantages

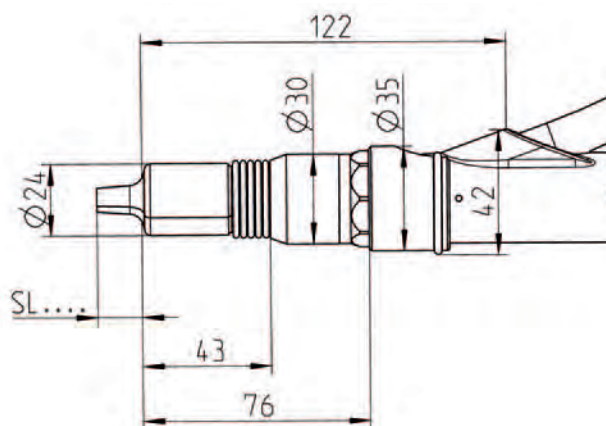
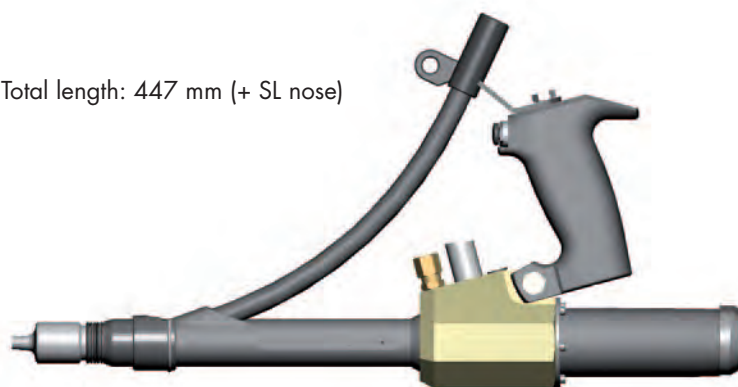
- Can be used for vertical and horizontal riveting
- Inexpensive variant
- On request, it can be fitted with an extra handle to improve ergonomics, in particular for applications involving vertical riveting.

All drawing sizes in mm

The experts in blind riveting

Overhead pistols

Total length: 447 mm (+ SL nose)



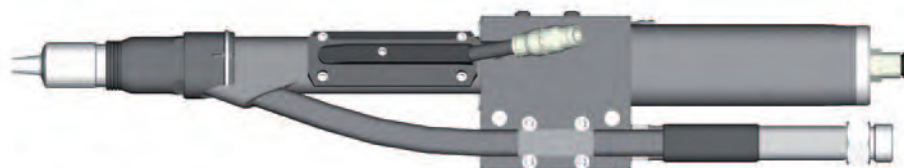
The overhead pistol can be used everywhere where the hose package is cumbersome or where it could come into contact with sensitive surfaces.

The advantage:

- Available with contact pressure monitoring

All drawing sizes in mm

Robotic pistol

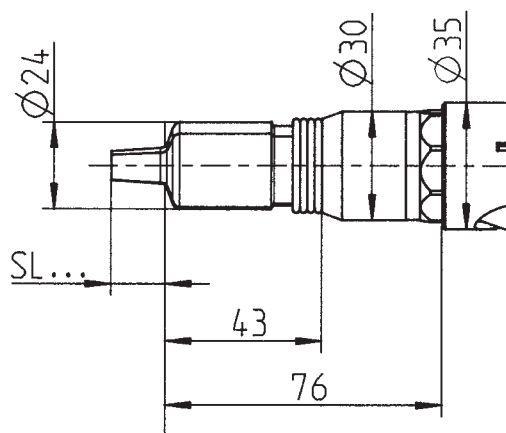
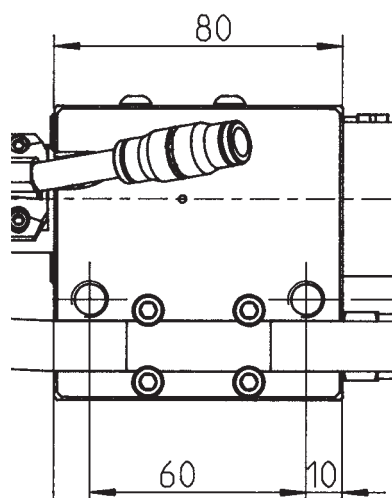


Total length: 441 mm (+ SL nose)

The robotic pistol has been developed primarily for use in fully automatic production applications/system (linear units/robots).

The advantages

- Ideal for integration in a production system
- On request, it can also be fitted with an extra handle (with trigger button) for vertical riveting so that it can be used manually.



All drawing sizes in mm

Accessories for GAV 8000 (both versions)

The accessories for GAV 8000 eco and GAV 8000 electronic allow an individual system configuration for each different application case

Interface for connection to external control

As an in-house development by GESIPA®, the GESIPA®-Interface 16 has digital inputs and outputs for controlling, a card writer for processing data and a USB slot for fast data transmission.



GESIPA® interface

GAV carriage

The trolley that has been specially designed for the GAV enables it to be mobile thereby allowing the workplace to be changed quickly and easily.

Foot pedal

The foot pedal is a good solution wherever applications require both hands to affix the parts that need to be riveted.



Foot pedal

Special length tube packages

A larger working radius can be achieved, e.g. for use on fully automatic production lines, by using packages of special hose lengths. These are available in various dimensions between 3.75 m and 5.0 m to meet the requirements of the various applications.

Comparison of GAV 8000 eco and GAV 8000 electronic

Properties	GAV 8000 eco	GAV 8000 electronic
Range of possible sizes 2.4 mm - 6.4 mm (Alu)	x	x
up to 40 rivet settings per min.	x	x
Independent system operation possible	x	x
PLC control possible	x	x
Intelligent control - excellent process safety	x	x
Setting of all operating parameters via the display	x	x
Customer-specific software modification	x	x
Maintenance display	x	x
Process monitoring		x
Process parameter memory for up to 9,999 different parts		x
Online transfer of the process data		x
The last 2 million rivet processes are saved in the device		x

The practical modular principle guarantees efficiency and quality

Individual concept for efficiency and flexibility

GESIPA®'s fully-automatic blind rivet processing systems are constructed to meet the customer's special production environment. All factors, such as workplace design, production type, application, securing of flawless work processes, integration into the sequential organisation and also process documentation for safety-relevant parts, are taken into consideration.

GAV are therefore available with various pistol models, hose length packages, special accessories for various rivet dimensions and production requirements.

This results in a large variety of models and a high level of efficiency thanks to the solutions that are adapted to meet requirements.

The GAV can be integrated into the system or operated independently. If the application changes, the system can be quickly and easily adapted to the new environment.

GAV 8000 – use in robot applications

Use by industry in robot-controlled applications

Both versions of the GAV 8000 can be integrated into robot systems. Industrial robots are used almost everywhere in the production environment. They can be programmed to carry out various movements and can therefore be used highly efficiently in combination with the GESIPA® rivet equipment.

With the controlled, fast and secure production processes it is possible to achieve the following benefits by using a fully-automatic GAV combined with a multi-axe robot:

- First rate precision
- High efficiency
- Short cycle times
- High flexibility



Blind rivet function documentation and setting process monitoring

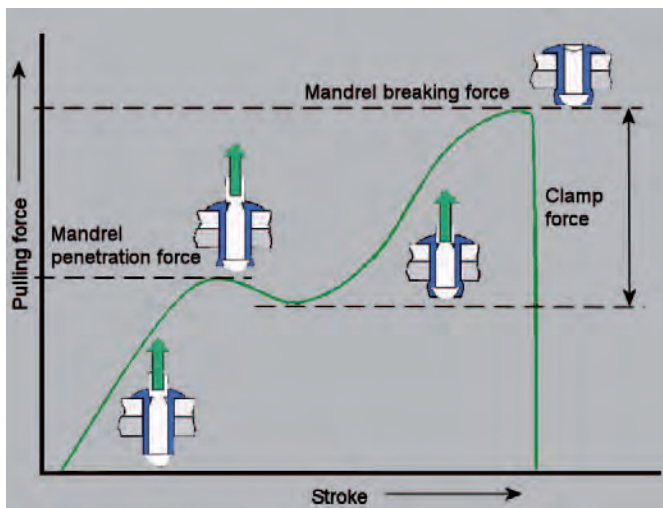
The integrated GESIPA® quality management system guarantees precision and accuracy right from the very first production step through to the processed blind rivet.

The combination of the use of function-documented blind rivets and the use of the setting process monitoring function of the GAV 8000 electronic guarantees process-secure connections.

The quality management system comprises of three areas:

- Dimensional review
- Function test
- Setting process monitoring

The dimensional review and the function test are carried out at GESIPA®, whilst the setting process is monitored during the riveting process at the customer's premises.

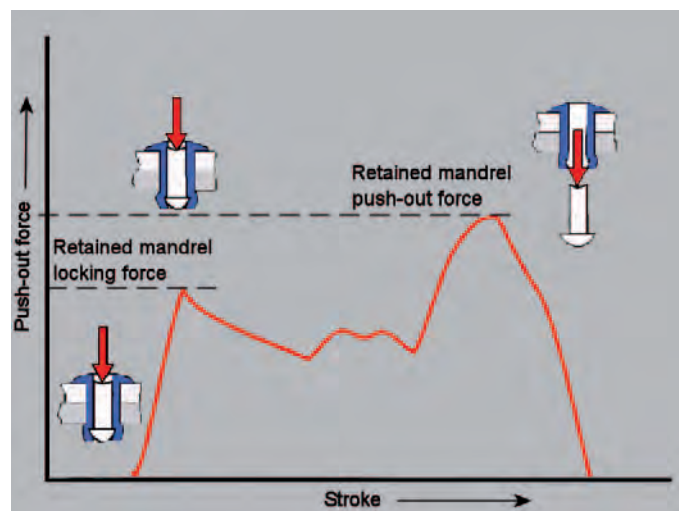


Function-documentation / setting curve

In addition to other parameters, the setting curve is measured using calibrated testing equipment for every batch of application-specific blind riveting. The measuring results of the shaft deformation, slip-in behaviour, mandrel break load and torque are compared to target values to ensure that the blind rivet in the application is deformed as required and creates a secure connection.

Function documentation / mandrel ejection force

The remaining part of the mandrel enclosed in the set rivet is pressed out with the aid of a needle. The measured force can be used to determine whether the remaining part of the pin is properly locked and will not cause any rattling noises or fall out. The batch is only released if both these values are within tolerances.



Monitored process – reliable connection

100% inspections of the riveting processes are required for safety-relevant applications for industrial processing of blind rivets. In this case, the fully-automatic rivet device GAV 8000 electronic allows application-compatible efficient solutions ranging from the basic system through to a system with a barcode scanner.

The concept of the integrated setting process monitoring

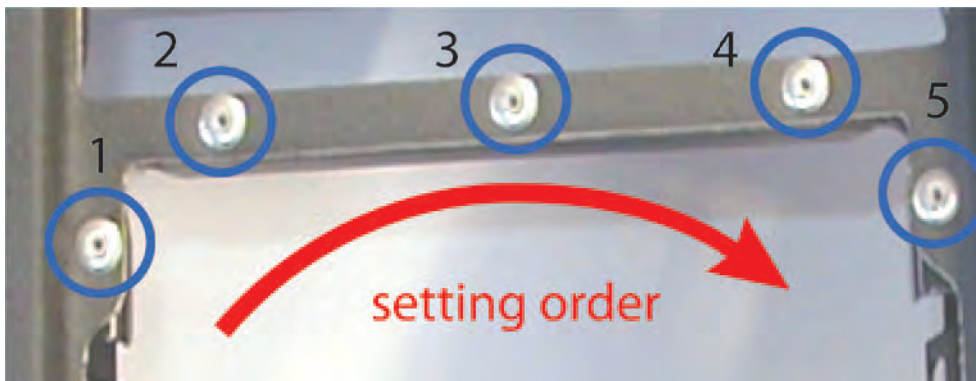
The process monitoring system is an integral part of the GAV 8000 electronic. It offers the following benefits:

- Optimum process security thanks to integrated quality concept
- Blind rivet-specific process monitoring
- System can be operated independently
- No memory-programmable control system (SPS) required to operate the device
- No system calibration required when system is exchanged
- Little installation effort required
- Interfaces to the control integration

Display of a GAV 8000 electronic indicating the setting curve as part of the setting process monitoring



Programming the setting process monitoring



The setting sequence

Step 1: Setting up blind rivet position-specific profiles

Recording and archiving of the relevant process parameters to create a blind rivet connection with reference process curves after defining the analysis window

Step 2: Generation of part-specific profile lists

Summary of the profile in the setting sequence as a control file for the process sequence and process assessment

Step 3: Operating the device

Online analysis and saving of the setting process data with process interruption if deviations are detected

Automatic riveting unit GAV HF

Fully-automatic blind rivet system for very strong blind rivets



Working range

- Blind rivet sizes from 4.8 mm to 8.0 mm Ø all materials
- Rivet body lengths up to 35 mm
- Setting head diameter up to 19 mm
- Mandrel up to 5.5 mm Ø
- Traction power up to 20,000 N at 5 bar air pressure

Advantages

- Conveyor pot filling level display
- Operating pressure: 5 bar
- Vibration-dampened pressure intensifier attachment
- Multiple monitoring of the blind rivet pistol by means of sensors
- Industrial control with an 8" colour display
- Conveyor distances of up to 25 m are possible when used in fully-automatic production systems
- Electronic system controls
- Intuitive menu guidance via navigation and function keys
- Function display
- Maintenance display and simple fault diagnosis
- Customer-specific software modification is possible
- Ideal for applications that do not require any process monitoring

Advice and delivery
time on request



A comparison of the size of a blind rivet that can be set with GAV HF and a GESIPA®-PolyGrip® rivet and a 1 Euro coin



- Rivet mandrels are disposed of via a vacuum system
- Surface contact trigger available as an optional extra
- Can be integrated into the system or operated independently
- Interface for external memory-programmable control system (SPS) can be realised via the GESIPA®-Interface

Accessories for GAV HF

The accessories for GAV HF allow an individual system configuration for each different application case

Foot pedal

The foot pedal is a practical solution wherever applications require both hands to affix the parts that need to be riveted.



Foot pedal

Surface contact monitoring with dual-hand operation

This special type of surface contact monitoring guarantees the manipulation-proof process-secure joining of parts. In applications that are relevant for safety, it is often necessary to completely rule out manipulations in the riveting process.

GSM radio module

In the event of any deviations to the target status e.g. nearly empty feed unit, the GSM radio module (GSM = Global System for Mobile Communications) reports this to a mobile telephone or a process control centre via a call or an SMS. This allows short response times.

Electronic key system and safety switch

An electronic key system and a safety switch guarantee safe access control for at least two user groups and lock the covering hood to prevent unauthorised access to the components in the supply unit.

Special length tube packages

A larger working radius can be achieved, e.g. for use on fully automatic production lines, by using packages of special hose lengths. These are available in various dimensions up to around 25 m to meet the requirements of the various applications.

Operatingstatus display

The signal lamps attached to the device in the colours red, green and white indicate the operating status of the system. An empty rivet tank, any deviations from the target operating status etc. are indicated immediately.



Signal lamps indicate the operating status

Blind rivet nuts technology

A collection of blind riveting tools and materials. In the center is a blue and black pneumatic rivet gun. To its right are several manual rivet tools with orange handles. In the foreground, a large pile of silver-colored blind rivet nuts is arranged in a curved line. To the left of the pile is a yellow and white box of GESIPA rivets.

know

trust

understand

move

create



Technical data

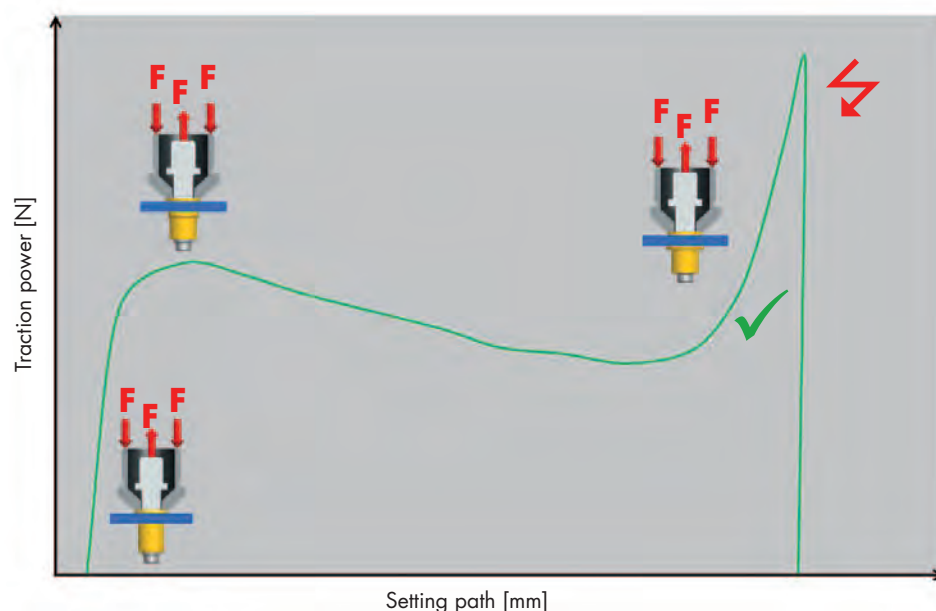
Your benefit

The specified forces and torques correspond to calculated values or values determined in tests. They aim to help the user select the suitable connector. GESIPA® recommends testing the blind rivet nuts in application. The actual values may differ from the information in the catalogue due to the different circumstances.

Please contact our technical team for further help and advice.



The setting process

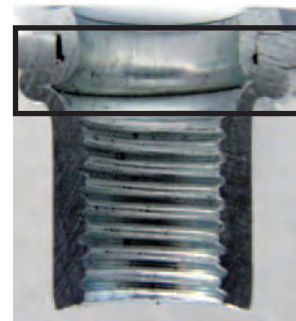


Force diagram for a setting process

If the closing head meets the joining material, the force curve increases again. To ensure that the blind rivet nut sits tightly on the joining material and does not slip when a screw is subsequently subject to torque, the closing head must lie completely flat on the joining material (see cross-sections of the blind rivet nuts on the following page). If the setting process is not interrupted, the force will continue to rise until the thread is destroyed.

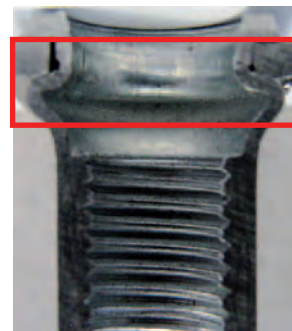
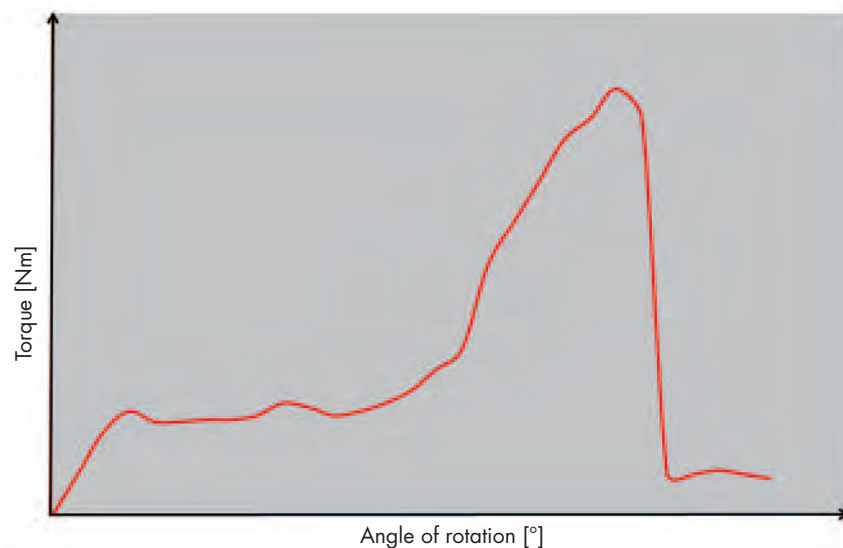
The picture shows a diagram of the force-distance curve for setting a blind rivet nut in the lower clamping range. Initially the force rises steeply because the deformation zone of the blind rivet nut is first compressed. Once a certain force is reached, the deformation zone starts to fold outwards. Due to the fact that the resistance of the material is lower during the deformation and creation of the closing head, the force drops slightly.

on **GESIPA® blind rivets**



Setting stroke 5.0 mm

Torque-angle of rotation diagram with the stroke set correctly



Setting stroke 3.5 mm

Torque-angle of rotation diagram with the stroke set correctly

The two charts show the torque curve when screwing differently set blind rivet nuts. The pictures show a cross section of blind rivet nuts set in analogue. The upper picture shows the flat and completely formed closing head in the black frame. In contrast, the setting lift of the blind rivet nut in the picture below is lower. This means that the closing head is not completely formed. A gap is still visible here in the folded forming zone. The incomplete closing head is framed in red.

In the upper chart, the torque curve increases until the maximum thread load is reached before it fails. In the case of incompletely set blind rivet nuts, the torque curve runs as shown in the lower chart. The torque only increases briefly and then runs at almost the same level for some time. The screw is screwed in further, however the preload force does not increase. Almost all the force resulting from the torque is used to form the final closing head. The torque only increases again once the forming zone is completely folded as shown in the upper picture.

In an angle-controlled screwing process, the process is always stopped after the pre-set rotational angle. If the blind rivet is not set properly, the screwing process is interrupted, again after the same rotational angle. However in this case, the required clamping force has not yet been reached.

The tightening torque (Nm) and (lb-ft)

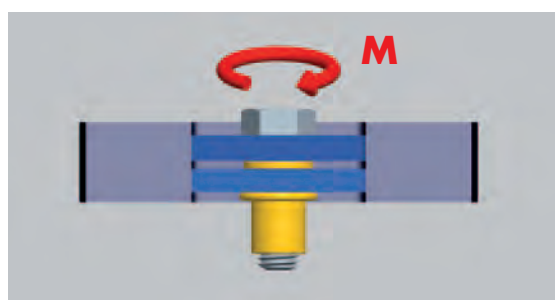
	Alu		Steel		Stainless steel	
	Nm	(lb-ft)	Nm	(lb-ft)	Nm	(lb-ft)
M4	2.5	1.8	3.0	2.2	5.5	4.1
M5	5.0	3.7	8.0	5.9	14.0	10.3
M6	9.5	7.0	12.0	8.9	27.0	19.9
M8	17.5	12.9	30.0	22.1	40.0	29.5
M10	28.0	20.7	38.0	28.0	-	-

The tightening torque [(Nm) and (lb-ft)] specifies the maximum torque with which the screw can be tightened.

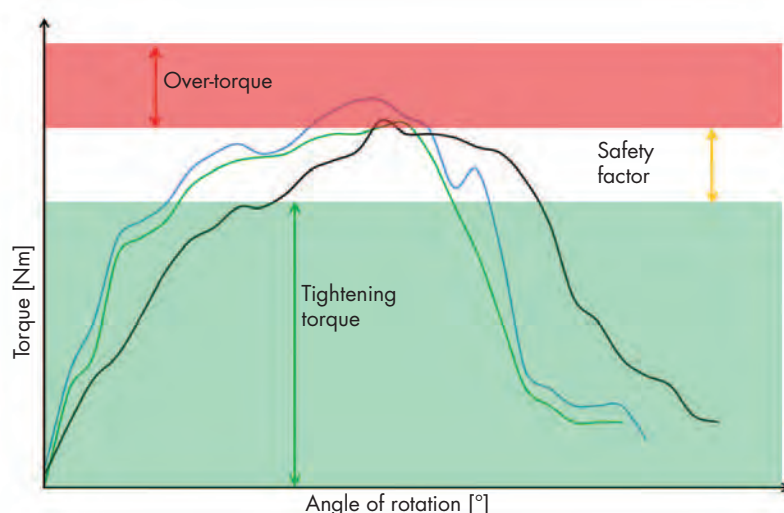
The overtorque is the fail limit of the thread. This is greater than the maximum recommended tightening torque and primarily depends on the type of thread and the friction partner. Reduced friction surfaces, borehole tolerances or lower friction coefficients μ , can greatly reduce the overtorque so that the thread of the blind rivet nut fails even before the specified value is reached.

GESIPA® uses screws of the strength class 10.9 or higher that are free of all lubricants for the test. A hardened washer is used as the clamping part.

The test is carried out in the lower and the upper clamping range, where the blind rivet nuts are loaded with the specified torque. Then the screw is screwed out again. The thread must still turn smoothly in order to pass the test. Then the blind rivet nut is loaded again up to the overtorque.



Schematic layout for the torque test



Torque-angle of rotation diagram

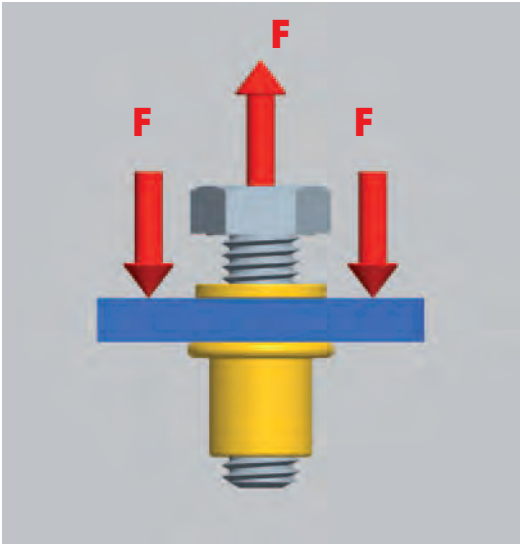
The diagram above shows examples of three torque rotational angle curves.

The highest torque value that is reached when screwing a screw into a blind rivet is the overtorque. This is the point at which the connector will fail.

All values in the green range can be selected as the torque. The range between the tightening torque and the overtorque is the safety factor.

Thread breakage force (N) and (kp)

	Alu		Steel		Stainless steel	
	N	(kp)	N	(kp)	N	(kp)
M4	4,800	489	8,000	815	10,000	1,019
M5	5,700	581	11,500	1,172	15,000	1,529
M6	9,500	968	21,500	2,191	> 25,000	2,548
M8	13,000	1,325	28,000	2,853	> 30,000	3,057
M10	14,000	1,427	30,000	3,057	-	



The maximum bearable axial load on the thread is the thread breaking force [(N) and (kp)].
GESIPA® uses screws of the strength class 10.9 or higher that are free of all lubricants for the test. The test takes place in the lower and upper clamping range.

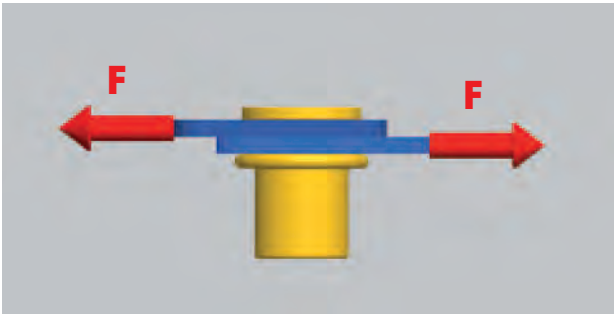
Schematic layout for the thread tear-out test

Shear strength (N) and (kp)

	Alu		Steel		Stainless steel	
	N	(kp)	N	(kp)	N	(kp)
M4	1,000	102	1,500	153	2,250	229
M5	1,400	143	2,200	224	3,200	326
M6	2,200	224	3,900	397	5,750	586
M8	3,000	306	5,100	520	7,600	774
M10	3,600	367	6,000	611	-	

The shear force [(N) and (kp)] states the minimum transverse force up to which the set blind rivet can be loaded before it fails. The load is exerted as a single shear and without a screw at a clamping length of 3.0 mm.

The stated values only apply to round flat head blind rivet nuts. The values for other models depend on the material that is being joined and the form of the head. These can be determined on request.

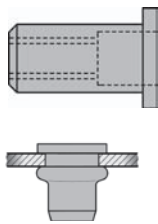


Schematic layout for the shear force test

Alu blind rivet nuts

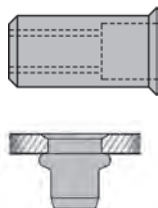
Material: AlMg 3

Standard (Dome head)



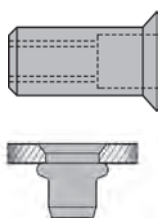
	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
M 4 Hole Ø: 6.1 mm	6 x 11.0	0.25 - 3.0	641 0030	A 500
	6 x 13.0	2.5 - 4.5	641 0073	"
M 5 Hole Ø: 7.1 mm	7 x 11.5	0.25 - 3.0	641 0138	A 500
	7 x 13.5	2.5 - 5.0	641 0170	"
M 6 Hole Ø: 9.1 mm	9 x 15.5	0.25 - 3.5	641 0235	A 250
	9 x 18.0	3.0 - 5.5	641 0278	"
M 8 Hole Ø: 11.1 mm	11 x 17.0	0.25 - 3.5	641 0332	A 100
	11 x 20.0	3.0 - 6.0	641 0367	"
M 10 Hole Ø: 12.1 mm	12 x 17.5	0.25 - 3.5	641 0456	A 100
	12 x 20.5	3.0 - 6.0	641 0480	"

Small head



	Rivet body D ₁ x L mm	Rivet body D ₁ x L mm	Part no.	Quantity per box
M 4 Hole Ø: 6.1 mm	6 x 12.0	0.5 - 3.0	641 0553	A 500
M 5 Hole Ø: 7.1 mm	7 x 12.5	0.5 - 3.0	641 0650	A 500
M 6 Hole Ø: 9.1 mm	9 x 15.5	0.5 - 3.5	641 0758	A 250
M 8 Hole Ø: 11.1 mm	11 x 17.0	0.5 - 3.5	641 0766	A 100

Countersunk (90°)



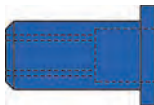
	Rivet body D ₁ x L mm	Rivet body D ₁ x L mm	Part no.	Quantity per box
M 4 Hole Ø: 6.1 mm	6 x 12.0	1.5 - 3.5	641 2017	A 500
	6 x 13.5	3.0 - 5.0	641 2041	"
M 5 Hole Ø: 7.1 mm	7 x 13.5	1.5 - 4.0	641 2130	A 500
	7 x 15.5	3.5 - 6.0	641 2149	"
M 6 Hole Ø: 9.1 mm	9 x 17.0	1.5 - 4.5	641 2238	A 250
	9 x 19.0	4.0 - 6.5	641 2246	"
M 8 Hole Ø: 11.1 mm	11 x 18.5	1.5 - 4.5	641 2335	A 100
	11 x 20.5	4.0 - 6.5	641 2343	"
M 10 Hole Ø: 12.1 mm	12 x 19.0	1.5 - 4.5	641 2432	A 100
	12 x 21.0	4.0 - 6.5	641 2440	"

The maximum tightening torque and the thread breaking force and shear strengths for all blind rivet nuts can be found on pages 102 and 103.

Steel blind rivet nuts

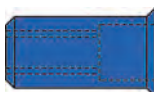
Material: Steel, zinc-plated

Standard (Dome head)



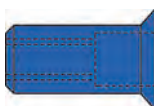
	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
M 4 Hole Ø: 6.1 mm	6 x 11.0	0.25 - 3.0	642 0052	A 500
	6 x 13.0	2.5 - 4.5	642 0095	"
M 5 Hole Ø: 7.1 mm	7 x 11.5	0.25 - 3.0	642 0176	A 500
	7 x 13.5	2.5 - 5.0	642 0214	"
M 6 Hole Ø: 9.1 mm	9 x 15.5	0.25 - 3.5	642 0273	A 250
	9 x 18.0	3.0 - 5.5	642 0338	"
M 8 Hole Ø: 11.1 mm	11 x 17.0	0.25 - 3.5	642 0397	A 100
	11 x 20.0	3.0 - 6.0	642 0427	"
M 10 Hole Ø: 12.1 mm	12 x 17.5	0.25 - 3.5	642 0494	A 100
	12 x 20.5	3.0 - 6.0	642 0524	"

Small head



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
M 4 Hole Ø: 6.1 mm	6 x 12.0	0.25 - 3.0	642 0613	A 500
M 5 Hole Ø: 7.1 mm	7 x 12.5	0.25 - 3.0	642 0710	A 500
M 6 Hole Ø: 9.1 mm	9 x 15.5	0.25 - 3.5	642 0818	A 250
M 8 Hole Ø: 11.1 mm	11 x 17.0	0.25 - 3.5	642 0826	A 100

Countersunk (90°)



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
M 4 Hole Ø: 6.1 mm	6 x 12.0	1.5 - 3.5	642 2012	A 500
	6 x 13.5	3.0 - 5.0	642 2047	"
M 5 Hole Ø: 7.1 mm	7 x 13.5	1.5 - 4.0	642 2144	A 500
	7 x 15.5	3.5 - 6.0	642 2152	"
M 6 Hole Ø: 9.1 mm	9 x 17.0	1.5 - 4.5	642 2233	A 250
	9 x 19.0	4.0 - 6.5	642 2241	"
M 8 Hole Ø: 11.1 mm	11 x 18.5	1.5 - 4.5	642 2330	A 100
	11 x 20.5	4.0 - 6.5	642 2349	"
M 10 Hole Ø: 12.1 mm	12 x 19.0	1.5 - 4.5	642 2438	A 100
	12 x 21.0	4.0 - 6.5	642 2446	"

The maximum tightening torque and the thread breaking force and shear strengths for all blind rivet nuts can be found on pages 102 and 103.

Blind rivet nuts Steel-splined

Material: Steel, zinc-plated

Standard (Dome head)



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
M 4 Hole Ø: 6.1 mm	6 x 11.0	0.25 - 3.0	642 4503	A 500
	6 x 13.0	2.5 - 4.5	642 4511	"
M 5 Hole Ø: 7.1 mm	7 x 11.5	0.25 - 3.0	642 4538	A 500
	7 x 13.5	2.5 - 5.0	642 4546	"
M 6 Hole Ø: 9.1 mm	9 x 15.5	0.25 - 3.5	642 4554	A 250
	9 x 18.0	3.0 - 5.5	642 4562	"
M 8 Hole Ø: 11.1 mm	11 x 17.0	0.25 - 3.5	642 4570	A 100
	11 x 20.0	3.0 - 6.0	642 4589	"

Small head



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
M 4 Hole Ø: 6.1 mm	6 x 12.0	0.25 - 3.0	642 4708	A 500
M 5 Hole Ø: 7.1 mm	7 x 12.5	0.25 - 3.0	642 4716	A 500
M 6 Hole Ø: 9.1 mm	9 x 15.5	0.25 - 3.5	642 4724	A 250
M 8 Hole Ø: 11.1 mm	11 x 17.0	0.25 - 3.5	642 4732	A 100

Countersunk



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
M 4 Hole Ø: 6.1 mm	6 x 12.0	1.5 - 3.5	642 4600	A 500
	6 x 13.5	3.0 - 5.0	642 4619	"
M 5 Hole Ø: 7.1 mm	7 x 13.5	1.5 - 4.0	642 4627	A 500
	7 x 15.5	3.5 - 6.0	642 4635	"
M 6 Hole Ø: 9.1 mm	9 x 17.0	1.5 - 4.5	642 4643	A 250
	9 x 19.0	4.0 - 6.5	642 4651	"
M 8 Hole Ø: 11.1 mm	11 x 18.5	1.5 - 4.5	642 4678	A 100
	11 x 20.5	4.0 - 6.5	642 4686	"

The maximum tightening torque and the thread breaking force and shear strengths for all blind rivet nuts can be found on pages 102 and 103.

Blind rivet nuts Steel-hexagonal

Material: Steel, zinc-plated

Standard (Dome head)



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
M 4 SW6 +0.1	6 x 11.0	0.5 - 2.0	642 4007	A 500
M 5 SW7 +0.1	7 x 12.0	0.5 - 3.0	642 4015	A 500
M 6 SW9 +0.1	9 x 15.5	0.5 - 3.0	642 4023	A 250
M 8 SW11 +0.1	11 x 17.0	0.5 - 3.0	642 4031	A 100

Small head



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
M 4 SW6 +0.1	6 x 11.0	0.5 - 2.0	642 4309	A 500
M 5 SW7 +0.1	7 x 12.5	0.5 - 3.0	642 4317	A 500
M 6 SW9 +0.1	9 x 15.5	0.5 - 3.0	642 4325	A 250
M 8 SW11 +0.1	11 x 17.0	0.5 - 3.0	642 4333	A 100

Blind rivet nuts

Stainless steel

Material:
Stainless steel A2 1.4567



Standard (Dome head)



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
M 4 Hole Ø: 6.1 mm	6 x 11.0	0.25 - 3.0	643 0007	A 500
	6 x 13.0	2.5 - 4.0	643 0015	"
M 5 Hole Ø: 7.1 mm	7 x 11.5	0.25 - 3.0	643 0104	A 500
	7 x 13.5	2.5 - 4.5	643 0112	"
M 6 Hole Ø: 9.1 mm	9 x 15.5	0.25 - 3.5	643 0201	A 250
	9 x 18.0	3.0 - 5.5	643 0228	"
M 8 Hole Ø: 11.1 mm	11 x 17.0	0.25 - 3.5	643 0309	A 100
	11 x 20.0	3.0 - 6.0	643 0317	"

Material surcharge will be added at a daily rate

Small head



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
M 4 Hole Ø: 6.1 mm	6 x 12.0	0.25 - 3.0	643 0503	A 500
M 5 Hole Ø: 7.1 mm	7 x 12.5	0.25 - 3.0	643 0600	A 500
M 6 Hole Ø: 9.1 mm	9 x 15.5	0.25 - 3.5	643 0708	A 250
M 8 Hole Ø: 11.1 mm	11 x 17.0	0.25 - 3.5	643 0805	A 100

Material surcharge will be added at a daily rate

Countersunk



	Rivet body D ₁ x L mm	Grip range mm	Part no.	Quantity per box
M 4 Hole Ø: 6.1 mm	6 x 12.0	1.5 - 3.0	643 2018	A 500
	6 x 13.0	2.5 - 4.0	643 2026	"
M 5 Hole Ø: 7.1 mm	7 x 13.5	1.5 - 4.0	643 2107	A 500
	7 x 15.5	3.5 - 6.0	643 2115	"
M 6 Hole Ø: 9.1 mm	9 x 17.0	1.5 - 4.5	643 2204	A 250
	9 x 18.5	4.0 - 6.0	643 2212	"
M 8 Hole Ø: 11.1 mm	11 x 18.5	1.5 - 4.5	643 2301	A 100
	11 x 20.0	4.0 - 6.0	643 2328	"

Material surcharge
will be added
at a daily rate

Material Size mm	All materials		Steel-hexagonal	
	Head diameter (mm)		Head diameter (mm)	
	Dome/countersunk	Small head	Dome/countersunk	Small head
M 4	9	7.1	9	7.4
M 5	10	8.1	10	8.4
M 6	12	10.1	13	10.4
M 8	14	12.1	15.8	12.4
M 10	15	./.	./.	./.

The maximum tightening torque and the thread breaking force and shear strengths for all blind rivet nuts can be found on pages 102 and 103.

PolyGrip[®] blind rivet nuts

with large grip range

Aluminium

Standard
(Dome head)



Material: AlMg 2.5

	Rivet body D _r x L mm	Grip range mm	Part no.	Quantity per box
M 5 Hole Ø: 7.1 mm	7 x 13.5	0.25 - 5.0	655 0171	A 500
M 6 Hole Ø: 9.1 mm	9 x 18.0	0.25 - 6.0	655 0277	A 250
M 8 Hole Ø: 11.1 mm	11 x 20.0	0.5 - 6.5	655 0366	A 100

Steel

Standard
(Dome head)



Material: Steel
Surface: Zinc-plated

	Rivet body D _r x L mm	Grip range mm	Part no.	Quantity per box
M 5 Hole Ø: 7.1 mm	7 x 13.5	0.25 - 5.0	656 0213	A 500
M 6 Hole Ø: 9.1 mm	9 x 18.0	0.25 - 6.0	656 0338	A 250
M 8 Hole Ø: 11.1 mm	11 x 20.0	0.5 - 6.5	656 0426	A 100

Stainless steel

Standard
(Dome head)



Material: Stainless steel A2 1.4567, polished



	Rivet body D _r x L mm	Grip range mm	Part no.	Quantity per box
M 5 Hole Ø: 7.1 mm	7 x 13.5	0.25 - 5.0	657 0113	A 500
M 6 Hole Ø: 9.1 mm	9 x 18.0	0.5 - 6.0	657 0227	A 250
M 8 Hole Ø: 11.1 mm	11 x 20.0	0.5 - 6.5	657 0366	A 100

The maximum tightening torque and the thread breaking force and shear strengths for all blind rivet nuts can be found on pages 102 and 103.

Steel blind rivet stud nuts



As a combination of blind rivet nut and screw, blind rivet nut studs offer an alternative or replacement for welding studs.

The following applications are particularly suitable for the use of GESIPA® blind rivet nut studs:

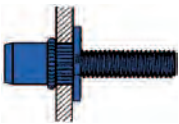
- Accessibility from one side only
- Thin carrier materials (sheet metal, plastics, etc...)
- Necessary pre-centering
- On application materials where thermal effects are possible (e.g. welding)
- Surface coatings must not be damaged
- Production of electrically conductive connections
- Fast replacement of weld studs (repairs)

GESIPA® blind rivet nut studs can be set without any problem with the GESIPA® blind rivet nut setting tools FireBird®, GBM 95 and FireFox® using corresponding adapters (see tool description) for blind rivet nut studs.

Further dimensions, special surface treatments or materials are available on request.

Standard (Dome head)

Material: Steel, zinc-plated



	Rivet body D _i x L mm	Grip range mm	Thread protrusion min. mm	Part no.	Quantity per box
M 4 Hole Ø: 6.1 mm	6 x 11.0	0.25 - 3.0	10.0	638 1010	A 200
M 5 Hole Ø: 7.1 mm	7 x 11.5	0.25 - 3.0	11.5	638 1018	A 150
M 6 Hole Ø: 9.1 mm	9 x 15.5	0.25 - 3.0	13	638 1027	A 150
M 8 Hole Ø: 11.1 mm	11 x 17.0	0.25 - 3.0	15.5	638 1035	A 100

Size mm	Shear strength N (kp)	Tensile strength N (kp)	Max. torque Nm
M 4	5,160 (525)	6,030 (614)	3.0
M 5	7,200 (733)	10,800 (1,100)	6.0
M 6	10,800 (1,100)	17,800 (1,812)	13.0
M 8	18,400 (1,873)	27,800 (2,830)	26.0

The values were determined using a screw of the strength class 8.8.

Blind rivet nuts –



What rivets what?

Units	Energy	Blind rivet nuts						
		M3	M4	M5	M6	M8	M10	M12
GBM 10	H				A			
GBM 20	H				A			
GBM 30	H						A	
FireFly	H				A			
FireBird®	B				A S E	A S	A	
GBM 95	P							
FireFox®	P						A S E	A S

H: Hand tool
B: Battery powered tool
P: Hydro-pneumatic tool

A: Alu
S: Steel
E: Stainless steel

– setting tools



Blind rivet hand tool

GBM 10



GBM 10 – M5 Part no. 720 0013
GBM 10 – M4 Part no. 720 0056
GBM 10 – M6 Part no. 720 0064

Working range

M3* to M6 alu blind rivet nuts and up to M5 steel, brass and stainless steel

Technical data

Weight: 600 g
Total length: 260 mm
Stroke: 7 mm

Accessories

Standard:
Threaded mandrel and nosepiece M5
(also with optional M4 or M6)
Maintenance instructions with spare parts list
Stroke table

Threaded mandrels and nosepieces

Nosepiece	Part no.
Threaded mandrel M4	720 2407
Threaded mandrel M5	720 2504
Threaded mandrel M6	720 2601
Nosepiece M4	720 2415
Nosepiece M5	720 2512
Nosepiece M6	720 2628

Features

- Simple lift setting via a knurled nut for safe and complete setting of the blind rivet nuts
- Threaded mandrel protection via spring ring for fast tool-free replacement of the threaded mandrel
- With opening spring for simple handling
- Body casing in high-quality die cast aluminium
- Body head made of forged chrome-vanadium steel
- Ergonomic handles

*Threaded mandrel and nosepiece M3 also available as special accessories



Blind rivet nut box



GBM 10 with mandrel and nosepiece M 5
including threaded mandrels and nosepieces M 4 and M 6, different blind rivet nut dimensions M 4 to M 6 made of alu for joint thicknesses of 0.25 to 3 mm.

The 4 blind rivet nut sizes:

- Alu M4 x 6 x 11.0
- Alu M5 x 7 x 11.5
- Alu M5 x 7 x 13.5
- Alu M6 x 9 x 15.5

Part no. 753 0013

Blind rivet hand tool

GBM 20



GBM 20 – M5 Part no. 721 0019

GBM 20 – M4 Part no. 721 0027

GBM 20 – M6 Part no. 721 0035

Working range

M3* to M6 alu blind rivet nuts and up to M5 steel, brass and stainless steel

Technical data

Weight: 900 g
Total length: 360 mm
Stroke: 7 mm

Accessories

Standard:
Threaded mandrel and nosepiece M5 (also with optional M4 or M6)
Maintenance instructions with spare parts list
Stroke table

Threaded mandrels and nosepieces

Nosepiece	Part no.
Threaded mandrel M4	721 2402
Threaded mandrel M5	721 2496
Threaded mandrel M6	721 2607
Nosepiece M4	721 2410
Nosepiece M5	721 2518
Nosepiece M6	721 2615

*Threaded mandrel and nosepiece M3 also available as special accessories

Features

- With opening spring for simple handling
- Large lever action for working with a minimum of effort
- Fast tool-free replacement of the threaded mandrel
- Quick drill configuration for fast and simple winding on/of the threaded mandrel
- Casing in steel
- Lever made of forged steel
- Plastic-coated handles



Blind rivet hand tool

GBM 30

- GBM 30 – M6 Part no. 722 0014
- GBM 30 – M5 Part no. 722 0022
- GBM 30 – M8 Part no. 722 0030
- GBM 30 – M10 Part no. 722 0049



Working range

M3* to M10 alu and steel blind rivet nuts and up to M8 brass and stainless steel

Technical data

Weight: 1,8 kg
Total length: 470 mm
Stroke: 7 mm

Accessories

Standard:
Threaded mandrel and nosepiece M6 (also with optional M5, M8 or M10)
Maintenance instructions with spare parts list
Stroke table

Features

- Quick drill configuration for fast and simple drilling in and out of the threaded mandrel
- Favourable transmission ration for low force application even when seting larger blind rivet nuts
- Simple lift setting via a lift scale for safe and complete setting of the blind rivet nuts
- Fast tool-free replacement of the threaded mandrel
- Casing and cross bearing made of forged steel
- Lever arms made of galvanised steel tubes
- Plastic-coated handles

Threaded mandrels and nosepieces

Nosepiece	Part no.
Threaded mandrel M5	722 2505
Threaded mandrel M6	722 2602
Threaded mandrel M8	722 2807
Threaded mandrel M10	722 2904
Nosepiece M5	722 2513
Nosepiece M6	722 2610
Nosepiece M8	722 2815
Nosepiece M10	722 2912

*Threaded mandrel and nosepiece M3 and M4 also available as special accessories



FireFly

Power and intelligence for setting blind rivet nuts

FireFly – Smart handling

- The well-proven principle of operation of the GESIPA® hand riveting tool Flipper spares up to 40% of the hand force for setting blind rivet nuts.
- A special lever design as well as the ratchet mechanism provide a reduction of hand force
- Exchange of nosepiece and threaded mandrel
- The stroke is 9 millimeter long for setting of new generation multigrip blind rivet nuts like new the GESIPA® PolyGrip® blind rivet nuts
- Tool-free setting of stroke and threaded mandrel lengths allows simple setting of blind rivets of different lengths.

FireFly – Working range

M3* to M6 alu blind rivet nuts and up to M3 to M5 steel

FireFly – the technical data

Total stroke: 9 mm
Single action stroke: 1.8 mm
Weight: 750 g

Refill mini packs for blind rivet nuts:

M4 x 6 x 13.0
€ 12.80 / Pack
Part no. 641 4200

M5 x 7 x 13.5
€ 14.30 / Pack
Part no. 641 4210



FireFly – The comprehensive one

Equipped with M5 nosepiece and threaded mandrel, in plastic carrying case with 2 Alu M4 and M5 blind rivet nut mini packs, as well as M4 nosepiece and threaded mandrel, operating instructions and stroke adjustment list
Part no. 752 0001

Retrofit set for blind rivet stud nuts

	Part no.	BRN thread protrusion	
		min.	max.*
M4	702 1027	8	22
M5	702 1028	9	22
M6	702 1029	10	22

Threaded mandrels and nosepieces

Article	Part no.
Threaded mandrel 6-32 UNC	702 2001
Threaded mandrel 8-32 UNC	702 2002
Threaded mandrel 10-24 UNC	702 2003
Threaded mandrel 10-32 UNC	702 2004
Threaded mandrel 1/4" - 20 UNC	702 2005
Nosepiece insert 6 - 32 UNC	702 2006
Nosepiece insert 8 - 32 UNC	702 2007
Nosepiece insert 10 - 24 UNC	702 2008
Nosepiece insert 1/4" - 20 UNC	702 2009

Article	Part no.
Threaded mandrel M3	702 1015
Threaded mandrel M4	702 1014
Threaded mandrel M5	702 1013
Threaded mandrel M6	702 1026
Nosepiece insert M3	702 1008
Nosepiece insert M4	702 1007
Nosepiece insert M5	702 1006
Nosepiece insert M6	702 1010

The nosepiece insert 10 - 24 UNC can be used for threaded mandrels 10 - 24 UNC and 10-32 UNF

Article	Part no.
FireFly M5 in cardboard box	752 0002
FireFly M3 in cardboard box	752 0003
FireFly M4 in cardboard box	752 0004
FireFly M6 in cardboard box	752 0006
FireFly 6 - 32 UNC in cardboard box	752 0007
FireFly 8 - 32 in cardboard box	752 0008
FireFly 10 - 24 UNC in cardboard box	752 0009
FireFly 10 - 32 UNF in cardboard box	752 0010
FireFly 1/4" - 20 UNC in cardboard box	752 0011

Equipped with a nosepiece and threaded mandrel and operating instructions

* A corresponding extended nosepiece must be used for thread protrusions > 22 mm.

FireFly in cardboard box



FireBird®



FireBird® – High performance

14.4 Volt rechargeable energy for flexible, cable-free use on building sites and industrial production systems

FireBird® – Safety first

- Drill-on of the blind rivet nut with reduced torque and automatic switch-off
- Triggering the setting process clearly separated from the drill-on action
- Automatic drill-out function after the end of the setting process
- Drill-off with high torque
- Sturdy, compact and shockproof tool housing

FireBird® – Ergonomics

- Fatigue-free working through well balanced weight repartition and ergonomic grip
- Easy stroke adjustment



FireBird® with battery 14.4 V / 1.3 Ah, and charger **in carrying case**
Part no. 726 0032

FireBird® with two batteries 14.4 V / 1.3 Ah, and charger **in carrying case**
Part no. 726 0030

FireBird® – with Li-Ion energy

- Battery with 1.3 Ah (standard) or power battery with 2.6 Ah as special accessory
- No memory-effect
- High energy yield due to high voltage
- Low weight allows for extremely easy and fast operation
- Extremely low self discharge
- New battery shape allow the tool to be stored standing on its battery

FireBird® – The fast one

- Simple and safe drilling of the blind rivet nuts
- Constant setting speed
- Automatic switchover from setting to drilling
- Fast and simple change system for threaded mandrels

FireBird® – The versatile one

M10 alu blind rivet nuts and up to M8 steel and up to M6 stainless steel

Battery powered blind rivet nut setting tool with 14.4 Volt Li-Ion battery

Working range

Up to M10 alu, up to M8 steel and up to M6 stainless steel

Accessories

Threaded mandrel and nosepiece M6 (in work position)
1 hexagonal wrench
Threaded mandrel and nosepiece M4 and M5 (in magazine)
Double open ended wrench SW 24/27

Technical data

Weight: 2.1 kg with battery
Traction power: 13,000 N
Drive: DC motor
Stroke: 7 mm

Power per battery charge/threaded mandrels and nosepieces

Blind rivet nuts Inner thread	Material	approx. pc per charging process	Part no.	
			Threaded mandrel	Nosepiece
M3	Alu	480	726 2019*	726 2086*
M3	Steel/stainless steel	440		
M4	Alu	420	726 2027	726 2094
M4	Steel/stainless steel	380		
M5	Alu	380	726 2035	726 2108
M5	Steel/stainless steel	320		
M6	Alu	320	726 2043	726 2116
M6	Steel/stainless steel	240		
M8	Alu	270	726 2051*	726 2124*
M8	Steel	140		
M10	Alu	240	726 2078*	726 2132*

* Available as special accessory

Conversion kit for blind rivet stud nuts

	Part no.	BRN thread protrusion	
		min.	max.*
M4	726 3015	8	22
M5	726 3023	9	22
M6	726 3031	10	22
M8	726 3058	12	22

* A corresponding extended nosepiece must be used for thread protrusions > 22 mm.

Charger 14.4 V Li-Ion

Part no. 725 1134



Technical data

Input voltage: 230 V / 50 Hz
Output voltage: 14.4 V DC
Recharging time: 50 to 100 minutes (battery depending)
Weight: 0.6 g

Battery

14.4 V/1.3 Ah (Li-Ion)

Part no. 725 1045

Weight: 0.35 g

Power battery

14.4 V/2.6 Ah (Li-Ion)

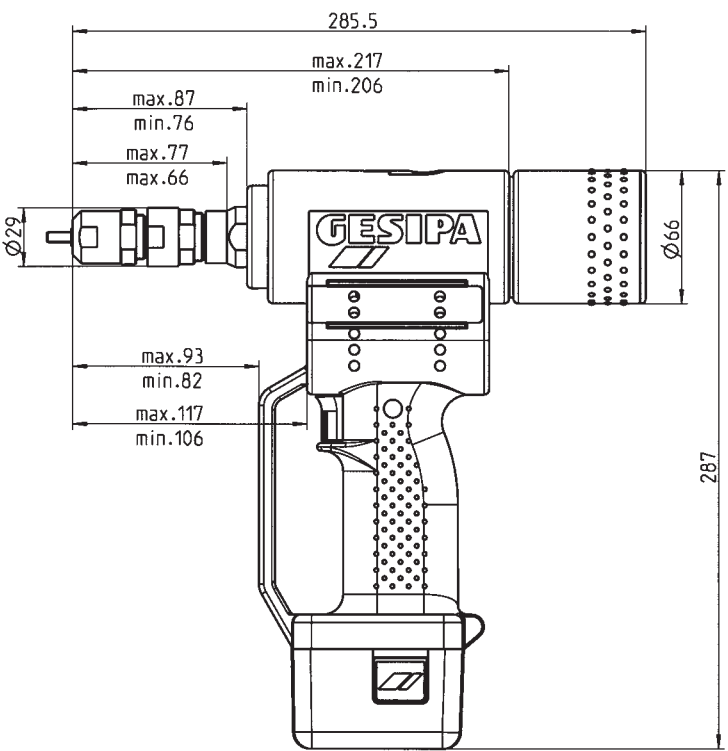
Part no. 725 1049

Available as special accessory
Weight: 0.5 g



Charger 12 V NiCd

Part no. 725 1035



Most blind rivet nut setting devices are lift-controlled, the others are setting force-controlled
The FireFox® from GESIPA® represents a new generation of blind rivet nut setting device which allows the user to define which control type he would like: simply, quickly and safely.

FireFox® — The new one

Setting blind rivet nuts with traction force adjustment

This means that the tool will stop pulling the blind rivet nut when a pre-adjusted traction force threshold is reached. No re-adjustment is needed when setting blind rivet nuts into different material thicknesses or when using blind rivet nuts with different shaft lengths. Traction force control prevents damage of the material which cannot be overstressed by a too high setting pressure and preserves the integrity of the blind rivet nut thread. As a bonus, it also extends the life duration of the threaded mandrels. The desired traction force threshold can be very simply adjusted with an allen wrench once the stroke adjustment has been set to the maximum.



FireFox® — The reliable one

Setting blind rivet nuts with constant stroke adjustment

This means that the tool will pull the blind rivet nut with its maximum force and stop immediately when the pre-adjusted stroke has been covered, nut for nut, safely and reliably. The stroke adjustment is easily and clearly performed using a millimetre scale on the tool adjustment thumb wheel, without the need for any tool, after having adjusted the pulling force to its maximum. The millimetre adjustment scale exactly reflects the effective stroke of the threaded mandrel, so that maladjustment is nearly impossible. Moreover it is safely locked to prevent any drift. The protruding length of the threaded mandrel can be adjusted manually according to the shaft length of the blind rivet nut.



FireFox® — The versatile one

Sets blind rivet nuts from M3 to M12, also those with extended grip range

The wide range of suitable thread sizes provides the FireFox® with a large variety of possible operation. The choice between stroke and traction force control also makes it suitable for industrial applications where several material thicknesses need to be covered, which would normally require the use of several tools. Moreover, its outstanding 10mm stroke is ideally suited to the new generation of large grip range blind rivet nuts, like the GESIPA® PolyGrip® products.



FireFox® — The simple one

Easy operation through automatic drill-on function

The drill-on process will automatically start when a blind rivet nut is lightly pressed onto the mandrel tip. This avoids the cumbersome double action on twin triggers. Thereafter introduce the blind rivet nut into its setting hole, press the trigger and keep it pressed until the setting cycle is completely finished, nut drilled off and tool free. It couldn't be easier!



FireFox® — The fast one

Extremely fast working cycle

Great care has been taken to shorten every sequence of the setting cycle to its absolute minimum: Pulling sequence and subsequent automatic drill-off take place at breathtaking speed and require only a single action on the trigger.

The ultimate hydro-pneumatic blind rivet nut setting tool

With its FireFox® GESIPA® is setting new standards in the field of blind rivet nut setting. The tool can be controlled either through a stroke adjustment or through pulling force limitation. Especially the latter provides a safe anchorage of the blind rivet nut in its hole, while preserving both application materials and inner thread with high process safety.

- FireFox® – M6 Part no. 772 0001
- FireFox® – M3 Part no. 772 0002
- FireFox® – M4 Part no. 772 0003
- FireFox® – M5 Part no. 772 0004
- FireFox® – M8 Part no. 772 0005
- FireFox® – M10 Part no. 772 0006
- FireFox® – M12 Part no. 772 0007

Working range
M3 to M10 blind rivet nuts all materials
and M12 in aluminium and steel

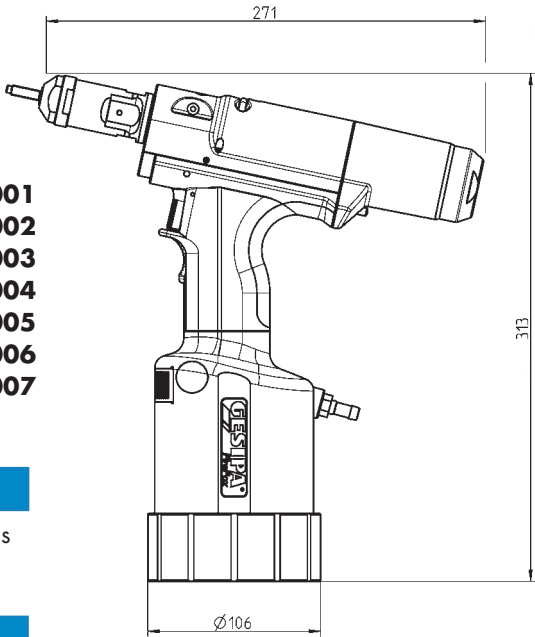
Technical data
Weight: 2.4 g
Adjustable stroke, max: 10mm
Adjustable traction force, max: 18.5 kN at 5 bar
Operating air pressure: 5-7 bar
Air hose connection: 6 mm Ø (1/4")
Air consumption: approx. 2 to 4 ltr.
per cycle (depending on nut size)

- Scope of delivery**
- 2 double open ended wrenches SW 24/27
 - 1 hexagon screwdriver SW 4
 - 1 oil refill can with hydraulic oil 100 ml
 - 1 oil refill can
 - Operating instructions with spare parts list

Equipment
Threaded mandrel and nosepiece choice from M3 to M12

- Accessories**
- Adapter for use with hexagon socket cylinder screws DIN EN ISO 4762 as threaded mandrel from M4 to M8
 - Adapter for setting blind rivet studs, M4 to M8
 - Nosepieces and threaded mandrels in imperial or US dimensions
 - Complete threaded mandrel and nosepiece sets

The experts in blind riveting



Threaded mandrel			
Description	Part no.	Description	Part no.
Threaded mandrel M3	772 1046	Threaded mandrel 6-32 UNC	772 1101
Threaded mandrel M4	772 1047	Threaded mandrel 8-32 UNC	772 1102
Threaded mandrel M5	772 1048	Threaded mandrel 10-24 UNC	772 1103
Threaded mandrel M6	772 1049	Threaded mandrel 10-32 UNC	772 1104
Threaded mandrel M8	772 1050	Threaded mandrel 1/4"-20 UNC	772 1105
Threaded mandrel M10	772 1051	Threaded mandrel 5/16"-18 UNC	772 1106
Threaded mandrel M12	772 1052	Threaded mandrel 3/8"-16 UNC	772 1107

Nosepieces			
Description	Part no.	Description	Part no.
Nosepiece M3	772 1053	Nosepiece 6-32 UNC	772 1108
Nosepiece M4	772 1054	Nosepiece 8-32 UNC	772 1109
Nosepiece M5	772 1055	Nosepiece 10-32 UNF	772 1110
Nosepiece M6	772 1056	Nosepiece 1/4"-20 UNC	772 1111
Nosepiece M8	772 1057	Nosepiece 5/16"-18 UNC	772 1112
Nosepiece M10	772 1058	Nosepiece 3/8"-16 UNC	772 1113
Nosepiece M12	772 1059		

FireFox® accessories

FireFox® protective cover

An additional protective cover over the head ensures that the stroke length setting is not unintentionally changed.

Part no. 772 1194



Conversion kit for blind rivet stud nuts

	Part no.	BRN thread protrusion	
		min.	max.*
M4	772 1138	8	22
M5	772 1139	9	22
M6	772 1140	10	22
M8	772 1141	12	22

* A correspondingly extended nosepiece must be used for thread protrusions > 22 mm.

FireFox® special accessories

Ready to hand and neatly stored
Complete metric threaded mandrel and nosepiece set M3 to M12

Metric dimensions
Part no. 772 1115

UNC/UNF dimensions
Part no. 772 1142



Conversion kit for Hexagon socket screws

Conversion kit for DIN screws	Part no.
M4 x min. 20	772 1117
M5 x min. 25	772 1132
M6 x min. 30	772 1136
M8 x min. 30	772 1137

Conversion kit for setting nuts

Conversion kit for setting nuts	Part no.
M6	772 1308
M8	772 1309
M10	772 1310
M12	772 1311

FireFox® C

NEW



Advice and delivery time on request

Available from end of 2012

FireFox® C — the variant with a setting process monitoring function

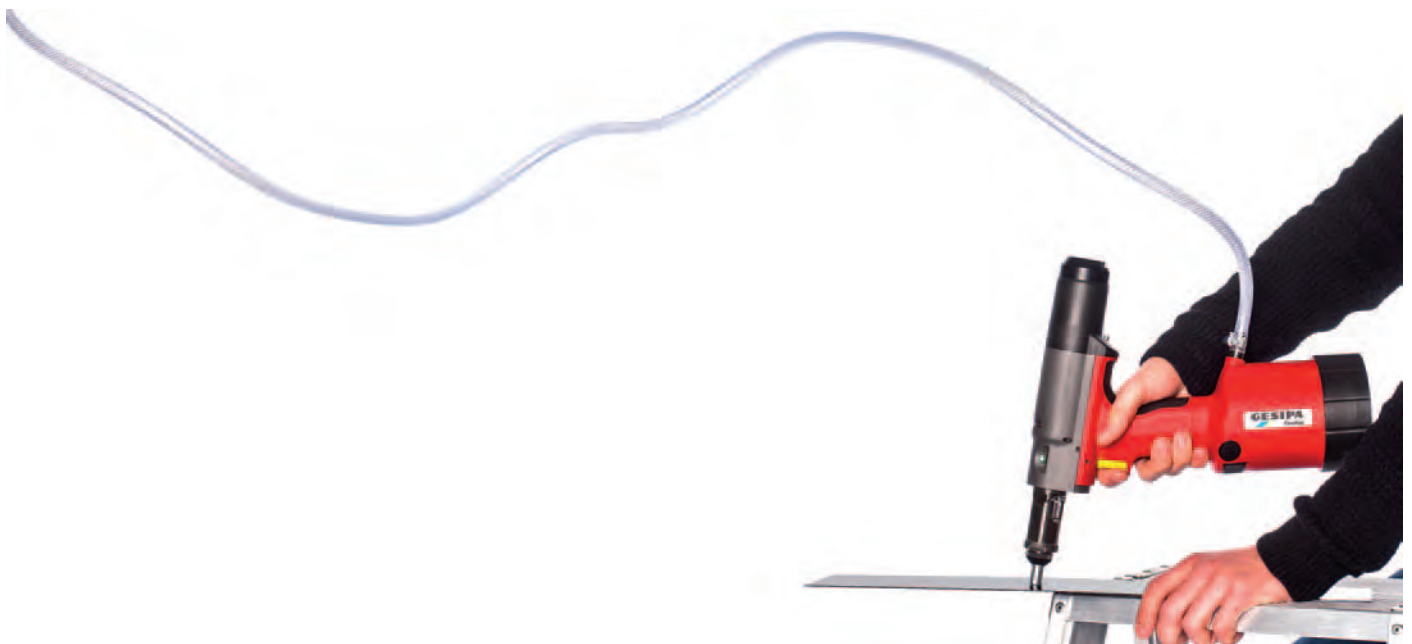
The basis for this device is the proven **Taurus C**. Here the setting process is analysed via integrated electronics using travel and force sensors. The user can define an OK window using a special software. The result of the setting process monitoring is shown on the device via a coloured LED; the values can also be recorded and processed via data lines.

FireFox® C — application

In the series production of safety parts or also for automatic setting processes, the FireFox® C allows the results to be checked and documented.

FireFox® C — the benefits

- High process security
- Documentation of each separate setting process
- Less scrap because errors can be recognised immediately



GBM 95

Hydro-pneumatic blind rivet nut setting tool

Working range

Blind rivet nuts from M3 to M10 all materials

Technical data

Weight: 2.3 g
Operating air pressure: 6 bar
Air hose connection: 6 mm Ø (1/4")
Air consumption: approx. 8 ltr. per rivet process
Traction power: 15,700 N (1.600 kp)
Stroke: 7 mm

Accessories

- 1 wrench MSU
- 1 hexagon screwdriver SW 4
- 1 hexagon ball-end driver SW 2.5
- 1 assembly rod
- 1 pin spanner Ø 42
- 1 oil refill can with hydraulic oil

Equipment

Standard:
Threaded mandrel and nosepiece M6
(also with optional M3, M4, M5, M8 or M10)
Operating instructions with spare parts list
Stroke table



- GBM 95 – M6 Part no. 727 0143
- GBM 95 – M3 Part no. 727 0208
- GBM 95 – M4 Part no. 727 0194
- GBM 95 – M5 Part no. 727 0186
- GBM 95 – M8 Part no. 727 0178
- GBM 95 – M10 Part no. 727 0151



Features

- Patented, rational drilling in and out system for threaded mandrels — time saving
- The compressed air used for the setting process is then used to automatically wind off the threaded mandrel — efficiently
- Simple lift setting — safe and complete setting of the blind rivet nuts
- Setting process: Hydraulic in an axial lift action — no twisting or turning of the blind rivet nuts and no damage to the surface
- Easy one-hand operation — rational and fatigue-proof
- Pneumatic locking of threaded mandrel — fast change without tools
- Hydraulic head; aluminium with wear-proof cylinder surface
- Pneumatic cylinder: aluminium with impact-resistance plastic sheath

Threaded mandrels

Article	Part no.
Threaded mandrel M3	727 9108
Threaded mandrel M4	727 9116
Threaded mandrel M5	727 9124
Threaded mandrel M6	727 9132
Threaded mandrel M8	727 9140
Threaded mandrel M10	727 9159

Nosepieces

Article	Part no.
Nosepiece M3	727 9167
Nosepiece M4	727 9175
Nosepiece M5	727 9183
Nosepiece M6	727 9191
Nosepiece M8	727 9205
Nosepiece M10	727 9213

Conversion kit for blind rivet stud nuts

	Part no.	BRN thread protrusion	
		min.	max.*
M4	727 1409	8	22
M5	727 1417	9	22
M6	727 1425	10	22
M8	727 1433	12	22
M10	727 1441	14	22

* A correspondingly extended nosepiece must be used for thread protrusions > 22 mm.

Do-it-yourself-program

Hand riveter NTS

Art. no. 703 0029



For easy operation, slim design of tool body for setting rivets in narrow places, self opening spring for automatic mandrel ejection.

Nietboy

Art. no. 755 0014



The handyman's riveting kit including NTS hand riveter and a selection of 100 rivets, washers and a drill.

Blind rivet assortment

Art. no. 639 1109



Contents:
100 blind rivets
in alu/steel:
4 mm Ø x 6, x 8, x 12

Service pack

Art. no. 639 2016



Contents:
50 pcs. of washers
3,1 and 4,1 mm Ø
and one of drills
3,1 and 4,1 mm Ø.

PolyGrip® alu/steel large flange K16

Rivet body- Ø length mm mm	Grip range mm	Art. no.	Pcs per pack
4,8 10	0,5-6,5	670 4130	25
4,8 17	6,5-13	670 4140	25

Mini pack blind rivets

26 of the most popular blind rivet sizes in alu/steel, steel/steel and copper/bronze in attractive boxes.



Mini pack rivets are supplied in a cardboard box with 10 boxes each.*

Alu/steel

Rivet body- Ø length mm mm	Grip range mm	Art. no.	Pcs per pack
3 6	1-3	630 4206	100
3 8	3-6	630 4214	100
3 12	6-9	630 4222	100
4 6	1-3	630 4230	100
4 8	3-6	630 4249	100
4 12	6-9	630 4257	100
5 6	1-3	630 4265	50
5 10	3-6	630 4273	50
5 12	6-9	630 4281	50

Steel/steel

Rivet body- Ø length mm mm	Grip range mm	Art. no.	Pcs per pack
3 6	1-3	631 3108	100
3 10	3-6	631 3116	100
3 12	6-9	631 3124	100
4 6	1-3	631 3132	100
4 10	3-6	631 3140	100
4 12	6-9	631 3159	100

Copper/bronze

Rivet body- Ø length mm mm	Grip range mm	Art. no.	Pcs per pack
4 6	1-3	635 3010	50
4 10	3-6	635 3029	50
4 12	6-9	635 3037	50

PolyGrip® alu/steel

Rivet body- Ø length mm mm	Grip range mm	Art. no.	Pcs per pack
3,2 8	0,5-5	670 4073	100
3,2 11	3-8	670 4080	100
4 10	0,5-6,5	670 4090	100
4 17	7-13	670 4100	50
4,8 10	0,5-6,5	670 4110	50
4,8 17	6,5-13	670 4120	50

* only available in full cardboard boxes

Blind rivet nut tool GBM 5



Easy stroke adjustment, quick exchange of mandrel.

Art. no. 723 0028

Working range:
From M4 to M6 alu and up to M5 steel and stainless steel

Mini pack blind rivet nuts



GBM mini pack blind rivet nuts in alu on blister card.

De- scrip- tion	Grip range mm	Art. no.	Pcs per pack
M4	0,25 - 3,0	639 4000	20
M4	2,5 - 4,5	639 4019	20
M5	0,25 - 3,0	639 4027	15
M5	2,5 - 5,0	639 4035	15
M6	0,25 - 3,5	639 4043	8
M6	3,0 - 5,5	639 4051	7

Blind rivet nut assortment

Art. no. 639 4094



Contents:
One threaded mandrel M4 and M5 each for GBM and 16 blind rivet nuts M4 and M5 short and medium.

**GESIPA® fasteners—
Innovation for the
customers...**

**We specialize in
blind riveting
systems.**

**We have many
years of experience
in manufacturing as
well as distribution
worldwide.**

**This allows us to
offer you the
complete solution
to your fastening
problem.**

Germany

GESIPA Blindniettechnik GmbH
Nordendstraße 13–39
64546 Mörfelden-Walldorf
T +49 6105 962 0
F +49 6105 962 287
info@gesipa.com
www.gesipa.com

Great Britain

GESIPA Blind Riveting Systems Ltd.
Dalton Lane, Keighley
West Yorkshire, BD 214JU
T +44 1535 212200
F +44 1535 212232
info@gesipa.co.uk
www.gesipa.co.uk

Spain

GESIPA Fijaciones S.A.
Pol. Txako Edif. 3 / Pab. 5
48480 Arrigorriaga (Vizcaya)
T +34 946712662
F +34 946712658
informacion@gesipa.es
www.gesipa.es

France

GESIPA SAS
BP 55
39, rue Georges Méliès
26000 Valence
T +33 4 757569 21/22
F +33 4 757569 25
info@gesipa.fr
www.gesipa.fr

Poland

GESIPA Polska Sp.z.o.o.
ul. Sikorskiego 5
05-119 Legionowo
T +48 22 7743 040
F +48 22 7743 853
gesipa@gesipa.com.pl
www.gesipa.com.pl

Hungary

GESIPA Hungary Kft.
Vásártér 18
9241 Jánossomorja
T +36 96 517892
F +36 96 517893
gesipa@t-online.hu
www.gesipa.com

Germany

GESIPA Blindniettechnik GmbH
Farnrodaer Straße 7
99842 Ruhla/OT Thal
T +49 36929 73 0
F +49 36929 73 200
info@gesipa.com
www.gesipa.com

USA

GESIPA Fasteners USA, Inc.
1 Union Street, Suite 203
Robbinsville, NJ 08691
T +1 609 208 1740
F +1 609 259 8214
sales@gesipausa.com
www.gesipausa.com

Austria

GESIPA Blindnietvertriebsgesellschaft m.b.H.
Biróstraße 19
1230 Wien
T +43 1 6160866 0
F +43 1 6160869
office@gesipa.at
www.gesipa.at

China

GESIPA c/o SFS intec Co, Ltd
5/F, Bihua Bldg, 3 Jinxiu Rd,
Guangzhou Development
District Guangzhou, China, 510730
T +86 20 82221305
F +86 20 82221306
info@gesipa.cn
www.gesipa.com

Czech Republic

GESIPA CZ, s.r.o.
Hnevkovského 30/65
61700 Brno-Komárov
T +420 543 212950
F +420 543 216049
info@gesipa.cz
www.gesipa.cz



A **SFS** intec
group company