

# CATALOGUE

PROFESSIONALS IN FIXING SYSTEMS: BLIND RIVETS, INSERT NUTS AND TOOLS



[www.bralo.com](http://www.bralo.com)



# CATALOGUE



**BRALO IS A LEADING MULTINATIONAL, DEDICATED TO THE MANUFACTURE AND DISTRIBUTION OF BLIND RIVETS, STRUCTURAL RIVETS, INSERT NUTS, AND RIVETING TOOLS.**



Our goal is to provide clients from different industries (automotive, construction, renewable energy, electronic, and general industries) with innovative solutions that allow us to anticipate our customer needs, always using the most cutting-edge technology, and guaranteeing the highest quality and reliability standards.

With production plants on three continents, commercial delegations in ten countries, and customers in more than 60 countries, BRALO's vision is to be a global company.

## COMMERCIAL DELEGATIONS

### PRODUCTION PLANTS

#### **BRALO, S.A.**

Milanos, 12. Pol.Ind. La Estación  
28320 Pinto (Madrid), SPAIN  
Tel.: +34 91 692 82 85  
E-mail: bralo@bralo.com

#### **BRALO NINGBO CHINA**

China Ningbo European Industrial Park  
1st Bin Hai Rd. Hangzhouway  
Bay New Zone  
Cixi City, Zhejiang, CHINA  
Tel.: +86 57463077693  
E-mail: bralo.cn@bralo.com

#### **BRALO MEXICO, S.A. De C.V.**

Eje 7 Norte No. 110  
Parque Industrial Toluca  
2000 Toluca, Edo de México  
C.P. 50200 MEXICO  
Tel.: +52 722 2497217  
E-mail: bralo.mx@bralo.com

### COMMERCIAL DELEGATIONS

#### **BRALO CZ, S.R.A.**

Řípská 11b  
627 00 Brno, CZECH REPUBLIC  
Tel.: +420 545 428 611  
E-mail: bralo.cz@bralo.com

#### **BRALO ITALIA S.R.L.**

Via Carlo Doppieri 15  
28100 Novara, ITALY  
Tel.: +39 0321 622601  
E-mail: info@bralo.it

#### **BRALO FRANCE, S.A.S**

Zac Chesnes la Noirée Rue de  
Provence  
38070 Saint Quentin Fallavier,  
FRANCE  
Tel.: +33 4 74 946294  
E-mail: bralo.fr@bralo.com

#### **BRALO Baglanti**

#### **Elemanlari San.ve Sti.**

Tuzla Mermerciler Organize  
Sanayi Bölgesi 7 Sokak No:  
3 Tuzla 34953 - Estambul,  
TURKEY  
Tel.: +90 216 5932710  
E-mail: bralo.tr@bralo.com

#### **BRALO PORTUGUESA, Lda.**

Pq. Ind. Sintra/Estoril VII - Pav.A3  
Rua Tapada Nova, 9 Capa  
Rota - Linhó 2710-297 Sintra,  
PORTUGAL  
Tel.: +351 21 9245270  
E-mail: bralo.pt@bralo.com

#### **BRALO DEUTSCHLAND GmbH**

Mergelfeld 24 D-31275 Lehrte  
OT Ahlten, GERMANY  
Tel.: +49 5132 504601  
E-mail: bralo.de@bralo.com

#### **BRALO U.K. LTD**

Leabrook Road, Wednesbury,  
West Midlands WS10 7NB,  
UNITED KINGDOM  
Tel.: +44 121 567 3230  
E-mail: bralouk@bralo.co.uk

### DISTRIBUTORS

**Austria**  
**USA**  
**Uruguay**  
**Argentina**  
**Chile**  
**Russia**

## BESIDE OUR CLIENTS...

BRALO serves clients in a variety of industries who have vastly different manufacturing environments; from repairs and maintenance or site work to highly sophisticated automated production lines.



## ...THROUGHOUT EVERY PHASE OF THE BUYING PROCESS

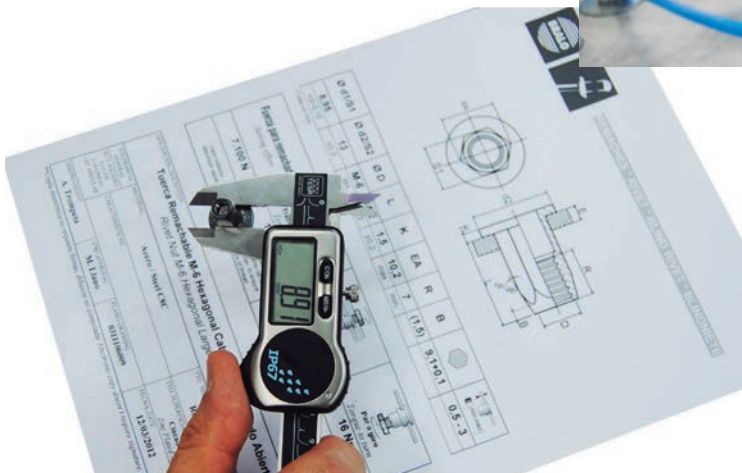
- **Technical** advice, to offer you the product that best meets your needs.
- **Sales and customer service** to attend you and process your orders.
- **Distribution** service, with the widest availability of products in stock.
- **After market service** for repairs and verification of standards.

## INNOVATION SERVING OUR CUSTOMERS

### TECHNICAL DEPARTMENT

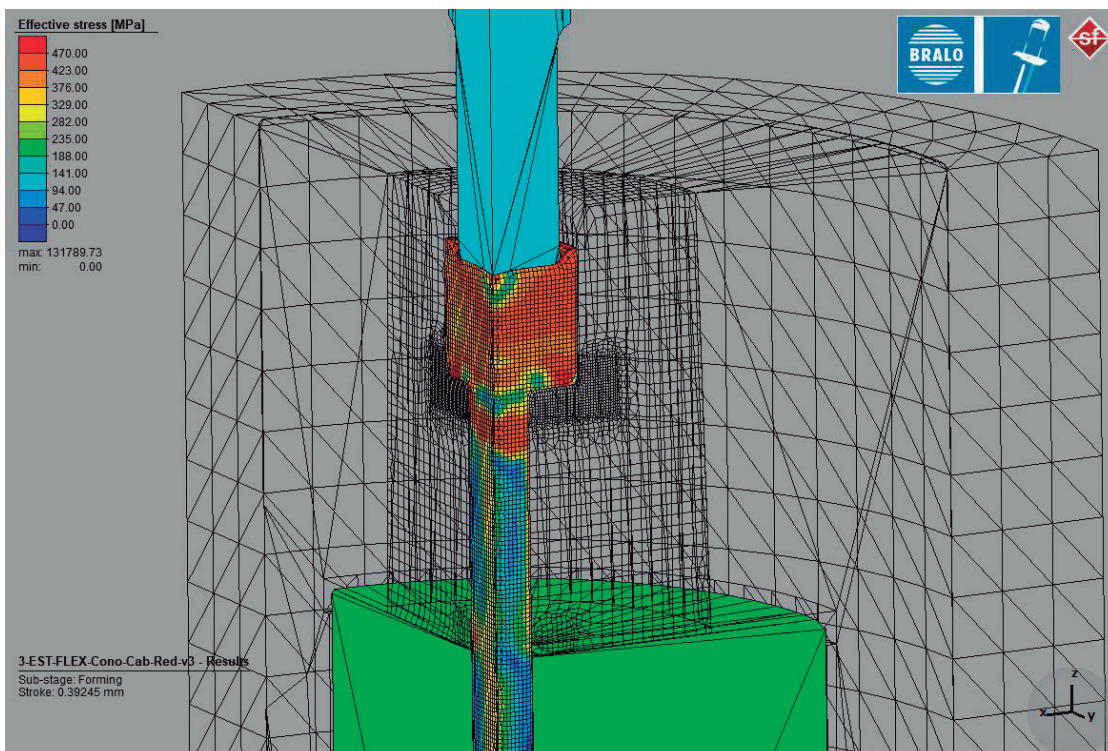
The technical team at BRALO is made up of high qualified engineers, capable of offering the best solution to any application.

This technical know-how and advice allows us to design products that are ideally personalized to meet the demands of certain industrial applications.



### R&D

BRALO is a strong believer in R&D, investing 7% of our revenue into it. This is done with the goal of continuously improving our ability to always be able to offer innovative products that go above and beyond market demands, and that meet the highest quality standards.



## QUALITY

In all production plants exists a quality system plan based on an exigent inspection requirements for raw materials, products and machinery. We have the most advanced technology for computer control throughout the production process and all our plants operate automatically.



## Certifications

**ISO 9001:2015**, accredits that the company meets the needs of customers and other stakeholders while meeting regulatory requirements related to the product.

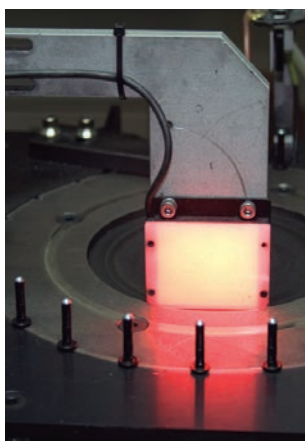
**IATF 16949:2016** defines the quality management system requirements for the design and development, production and service of automotive related products.

**ISO 14001:2015**, guarantees the implementation of an Environmental Management System in all its activities.

## SAFETY

Safety when using our products is one of BRALO's main goals; we our continuously updating and improving our products to guarantee this. All our tools include a safety instruction manual and we provide all additional information that may be required.

Our manufacturing monitoring systems verify the suitability of 100% of the rivets destined to applications connected to the final recipient's safety (automotive, lifelines, etc.).



BRALO tool design takes into account the operator's safety and comfort, as well as the impact of vibrations and noise, in accordance with European directives, 2003/10/CE y 2002/44/CE).



## THE ENVIRONMENT

BRALO's dedication to the environment and sustainable development has led us to carry out active management with the good of the planet in mind. This can be seen by our ISO 14001:2015 certification, as well as how we use resources and recycled materials, and our environmentally-friendly management of the production processes.

# INDEX

	Page		Page
BRALO products	10	<u>ALUMINIUM TREBOL</u>	43
Blind rivets	11	Dome	44
Technical data	12	Large	44
Rivet coating types	13	S-Trebol	45
Blind rivet types	14	<u>ALUMINIUM SEALED</u>	46
Lacquers and colors	17	Dome	47
		Large	48
		Countersunk	48
<b>ALUMINIUM RIVETS</b>	<b>19</b>	<u>ALUMINIUM/STAINLESS STEEL SEALED</u>	49
<u>ALUMINIUM/ STEEL STANDARD</u>		<u>ALUMINIUM/ALUMINIUM SEALED</u>	49
Dome	20	<u>ALUMINIUM/STEEL PROFILE CLINCHER</u>	50
Colours in stock	22	ALUMINIUM/STAINLESS STEEL	
Tube	25	<u>DRIVE RIVET</u>	52
Large	26		
Countersunk	27	<b>STEEL BLIND RIVETS</b>	<b>53</b>
<u>ALUMINIUM/ STAINLESS STEEL</u>		<u>STEEL STANDARD</u>	54
Dome	28	Dome	54
Large	29	Large	55
Countersunk	30	Countersunk	56
<u>ALUMINIUM/ ALUMINIUM</u>		<u>STEEL PEELED</u>	57
Dome	31	<u>STEEL SEALED</u>	57
Large	31	<u>STEEL MULTIGRIP</u>	58
<u>ALUMINIUM/ STEEL MULTIGRIP</u>		<u>STEEL HARDVEX</u>	59
Dome	32	<u>STEEL GRIPMATE</u>	60
Versagrip	33		
Countersunk	34	<b>STAINLESS STEEL BLIND RIVETS</b>	<b>61</b>
Large	34	<u>STAINLESS STEEL A2</u>	
Hardlock	35	Dome	62
<u>ALUMINIUM/ STAINLESS STEEL MULTIGRIP</u>		Large	63
Dome	35	Countersunk	63
Countersunk	36	<u>STAINLESS STEEL A4</u>	64
Large	36	<u>VERSAGRIP STAINLESS STEEL A2</u>	64
Versagrip	37	<u>STAINLESS STEEL SEALED</u>	65
<u>ALUMINIUM GROOVED</u>	38		
<u>ALUMINIUM SOFT MATERIALS</u>	39		
<u>ALUMINIUM PEELED</u>	40		
Dome	41		
Large	42		



	Page
<b>COPPER NICKEL ALLOY RIVETS</b>	<b>65</b>
<u>MONEL®/STEEL</u>	66
<u>MONEL®/STAINLESS STEEL</u>	66
<b>COPPER BLIND RIVETS</b>	<b>67</b>
<u>COPPER/ STEEL</u>	67
<u>COPPER/ BRONZE</u>	67
<u>COPPER/ STEEL SEALED</u>	68
<u>COPPER/ STAINLESS STEEL SEALED</u>	68
<b>STRUCTURAL RIVETS</b>	<b>69</b>
<u>ALUMINIUM STRUCTURAL</u>	
Dome	70
Countersunk	70
<u>STEEL STRUCTURAL</u>	
Dome	71
Countersunk	71
<u>STAINLESS STEEL STRUCTURAL</u>	
Dome	72
Countersunk	72
Dome Stainless Steel A4	72
<u>ALUMINIUM HARDLOCK</u>	73
<u>STEEL HARDLOCK</u>	73
<u>STAINLESS STEEL HARDLOCK</u>	73
<u>STEEL HARDGRIP</u>	74
<u>STAINLESS STEEL HARDGRIP</u>	74
<u>STAINLESS STEEL A4 HARDGRIP</u>	75
<b>LOCKBOLTS</b>	<b>76</b>
<u>UNILOCK</u>	76
<u>BRALOCK</u>	76

	Page
<b>SPECIAL RIVETS</b>	<b>77</b>
<u>BRASS MASS-RIVET</u>	77
<u>COPPERED NAILS</u>	77
<b>ACCESSORIES</b>	<b>78</b>
<u>NYLON CAPS AND COVERS</u>	78
<u>WASHERS</u>	79
<b>SPEED RIVETS</b>	<b>80</b>
<u>SPEED RIVETS BSR</u>	82
<u>SPEED RIVETS BSV</u>	84
<b>INSERT NUTS</b>	<b>86</b>
<u>INSERT NUTS</u>	86
<u>INSERT NUTS TYPES</u>	87
<u>STEEL INSERT NUTS</u>	88
<u>STAINLESS STEEL INSERT NUTS</u>	99
<u>ALUMINIUM INSERT NUTS</u>	107
<u>STEEL STUD NUT</u>	108
<b>RIVETING TOOLS</b>	<b>109</b>
<u>Pneumatic riveting tools for rivets</u>	109
<u>Battery riveting tools for rivets</u>	112
<u>Manual riveting tools for rivets</u>	114
<u>Manual riveting tools for insert nuts</u>	118
<u>Riveting tool for speed rivets</u>	120

# BRALO PRODUCTS

BRALO fastening elements have been developed from their inception over 30 years ago and now include a vast range of high quality rivets, insert nuts and setting tools that will meet the needs of the most demanding manufacturing process.



## BRALO RIVETS AND LOCKBOLTS

The BRALO range have more than 3,000 references in the market, to meet the expectations of customers; from blind rivets, structural rivets and lockbolts. Available in steel, stainless steel, aluminium, copper and nickel copper alloy, BRALO rivets have become the standard throughout the industry.

The constant use of innovative technology has created the most comprehensive range of rivets in the market. Thanks to our wide range of materials, finishes and conditioning processes, our customer can choose from all our rivets features, from colour up to design.

## INSERT NUTS

Designed to satisfy the highest quality levels and manufactured to resist the most severe weather conditions.

BRALO has a wide variety of rivet nuts. We offer them with flanged, reduced or countersunk heads with either smooth, grooved or hexagonal bodies. The choice of which to use depends on the application.

Our insert nuts can be used to fasten a big variety of materials, including soft materials, fragile materials, thin sheets and plastic.

## Installation equipment

### REMACHADORAS DE BATERÍA

Being portable and fast, BRALO's Electronic tools have the capacity for setting both standard and structural rivets. Our new BET range offers light weight battery tools designed to meet the needs of the most demanding of applications.

BRALO battery riveting tools are portable and with high performance technologies. BET-1 and BET-2 provide a wide assembly capacity and a powerful Li-Ion battery.

### HAND TOOLS

The most extensive search for quality and our constant improvement policy make BRALO Manual Tools distinguished for their ergonomics, lightness and durability.

### PNEUMATIC RIVETING TOOLS

Designed to increase the efficiency in production lines.

BNT and TR range are high performance riveting tools capable of setting a wide variety of blind rivets and insert nuts. They are powerful, ergonomic tools, with an efficient setting system, designed to meet the needs of the most demanding of applications.

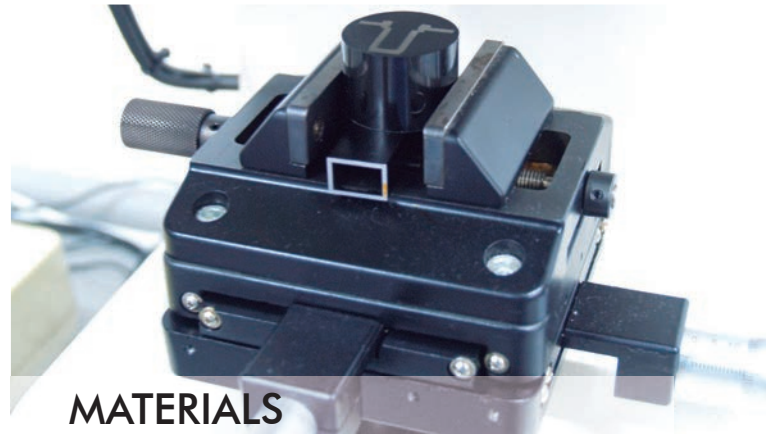
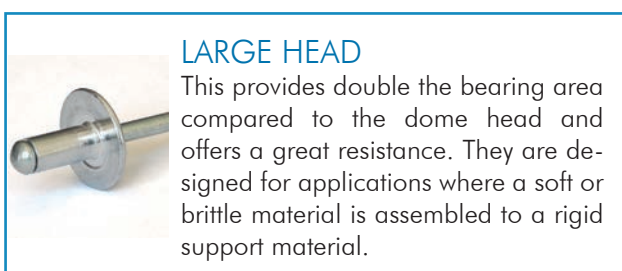
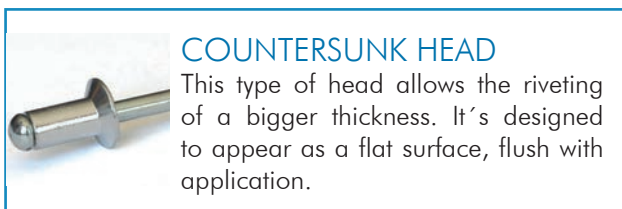
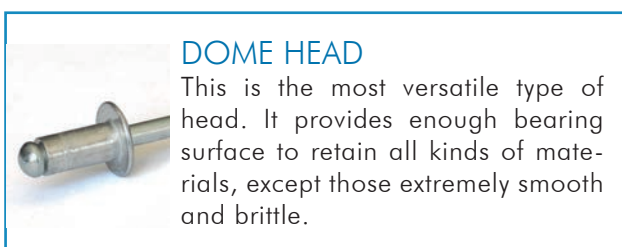


# BLIND RIVETS

- **Extensive rivet range.** With over 4,500 products, BRALO lives up to its customers' high requirements to diversity of design and function, as well as in quality and cost.
- **High quality material.** AT BRALO we test materials to ensure they meet the highest quality standards in our industry for safety, strength and durability.
- **Customized designs.** We manufacture special designs in collaboration with our customers to meet their requirements and demands. BRALO is an innovative enterprise in constant growth offering customised fastening solutions and tailored services.

## BENEFITS

- Wide rivets range.
- Rivets with Multi-grip range feature.
- Mandrel is completely locked to get resistance.
- Special designs.
- Packaged according to the customers' needs.
- Protective lacquered and coatings.



### **Aluminium Mg (EN AW 6101)**

Clear metal or coloured. Applications in soft materials and with less resistance.

### **Aluminium Mg 2,5 (EN AW5052)**

Clear metal or coloured. Applications where shear and tensile strengths are needed and with good resistance. It is used for Multigrip rivet.

### **Aluminium Mg 3 (EN AW 5754)**

Clear metal or coloured. Applications in soft materials. It's used in Trebol rivet. High corrosion resistance.

### **Aluminium Mg 3,5 (EN AW 5154)**

Clear metal or coloured. It's used for Standard rivets for all types of applications.

### **Aluminium Mg 5,0 (EN AW 5019)**

Clear metal or coloured. It's used for Sealed rivets in applications where shear and tensile strengths are needed. It has high resistance.

### **Steel**

Common material. Applications in resistant materials. The surface coated steels are governed by ISO 4042.

### **Stainless Steel (304, 316)**

Corrosion resistance. Applications where there are adverse weather conditions.

### **Copper**

Thermal and electrical conductor. Applications in soft materials.

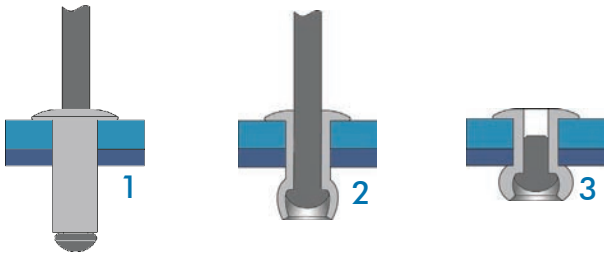
### **Monel ® (Nickel Copper Alloy)**

High tensile strength. High resistance to corrosion, salt water, acids and alkaline solutions.

# TECHNICAL DATA

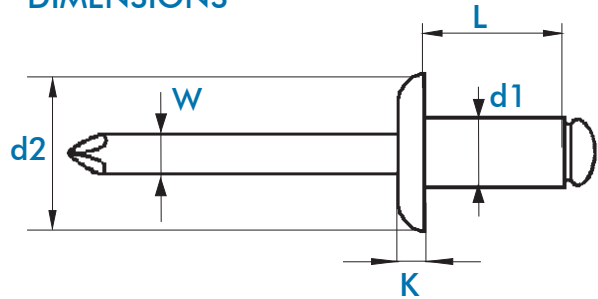
With our fast installation, reduced operation cost and high productivity, there is always a solution at BRALO.

## RIVETING PROCESS




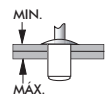
1. Put the rivet into the nosepiece and insert it into the hole.
2. Push the trigger of the tool so the mandrel enters the rivet head. The hole is completely filled and the mandrel ejects.
3. The rivet is firmly applied. When finished the tool uses compressed air to expel the mandrel into the mandrel catcher.

## DIMENSIONS

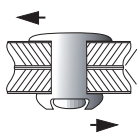


- d1.** Diameter of the body.
- d2.** Diameter of the head.
- L.** Length of the body.
- W.** Diameter of the mandrel.
- K.** Thickness of the head.

 Diameter of the hole (mm).

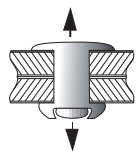
 Grip range (mm).

## STRENGTH



### Shear strength (N)

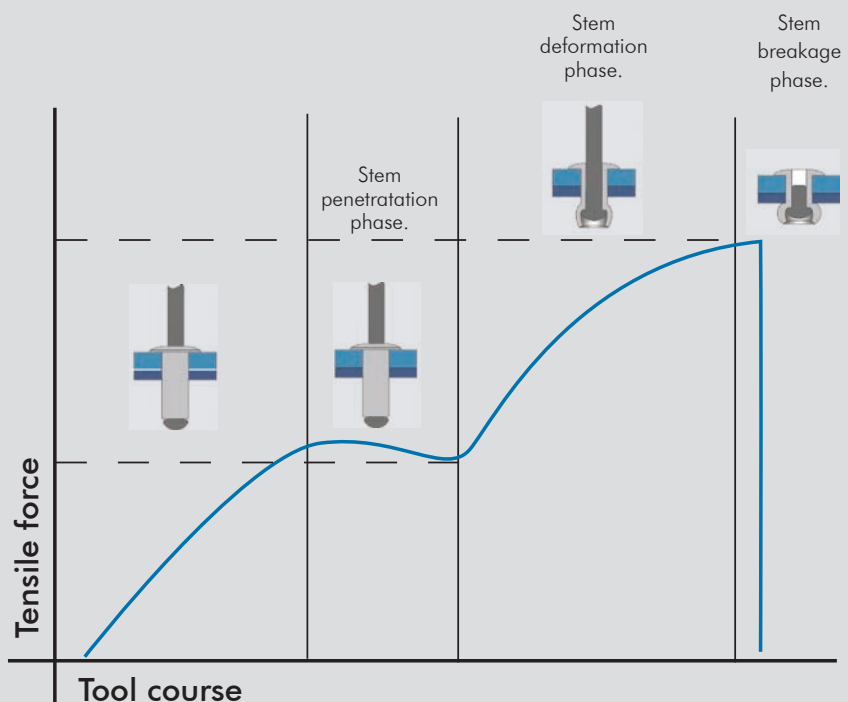
Occurs when a riveted assembly is subjected to two opposed forces, applied in the same plane which is perpendicular to the symmetry axis of the rivet.



### Tensile force (N)

Occurs when a riveted assembly is subjected to two forces in opposite directions applied in the symmetry axis of the rivet.

## RIVETED STRENGTH PROCESS



# RIVET COATING TYPES

## SURFACE FINISHES AND PROTECTIVE COATINGS

To improve the performance of all the outdoor pieces different protective coatings or surface finishes are applied.

### COATINGS AND FINISHES BY TYPE OF PROTECTION

#### Appearance-based coatings and finishes

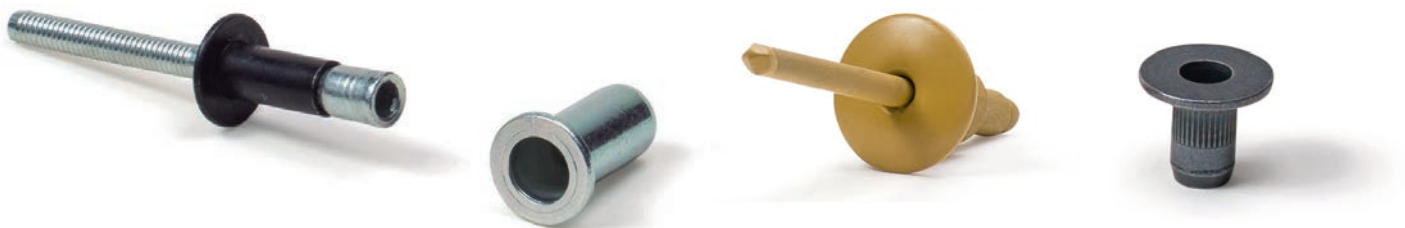
- Lacquered
- Polished

#### Galvanically or chemically applied protective coatings

- Zinc coated with transparent or iridescent passivation
- Zinc coated with passivation or finished in black
- Zinc-Iron plating
- Zinc-Nickel plating
- Non-galvanic protective coatings

#### Passivation

- Aluminium anodization
- Stainless steel passivation



### HOW TO CHOOSE THE PROTECTIVE FINISH OR COATING

	Corrosion conditions	Temperature resistance	Appearance	Material
<b>Appearance-based coatings and finishes</b>				
Lacquered	○	Moderate	By color	Alu/Steel/Inox
Polished	□	Moderate	Metal color	Alu/Copper
<b>Galvanically or chemically applied protective coatings</b>				
<b>Galvanic zinc coatings</b>				
Zinc coated with transparent or iridescent passivation	○	Moderate	Gray-iridescent gray	Steel
Zinc coated with passivation or finished in black	○	Moderate	Black	Steel
Zinc with special passivation	○ a X		Depend on passivation	Steel
<b>Galvanically applied alloyed coatings</b>				
Zinc-Iron plating	○ a X	Moderate	Matt Gray	Steel
Zinc-Iron plating with black finished	○ a X	Moderate	Matt-black	Steel
Zinc-Nickel plating	X	Good	Gray	Steel
Zinc-Nickel plating with black finished	X	Good	Black	Steel
<b>Non-galvanic protective coatings</b>				
DeltaSeal Grey	X	Moderate	Grey silver	Alu/Steel
DeltaSeal Black	X	Moderate	Matt-black	Alu/Steel
<b>Passivation processes</b>				
Aluminium anodisation	X	Moderate	Silver or black	Alu
Stainless steel passivation	◆	Good	Without changes	Stainless Steel

○	Light
□	Moderate
X	Severe
◆	Very severe

\*All coating are Cr VI (hexavalent chromium) free.

### APPEARANCE MOST COMMON COATINGS



# BLIND RIVETS TYPES

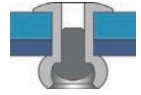
## BLIND RIVETS

A rivet is a fastening system designed to join two pieces of material, whether of the same or different materials, especially in applications where only one side is accessible. BRALO rivets provide a safe and resistant solution to many fastening problems. They have been designed to satisfy the highest quality levels and are manufactured to resist the most severe weather conditions.



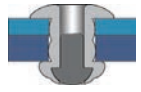
### STANDARD RIVET

Wide grip range.  
Where especially high torque force is not needed.  
Great variety of materials.  
Fast, simple with great quality assembly.



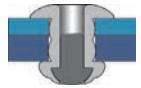
### MULTIGRIP RIVET

Multigrip features.  
Excellent visual aspect on both sides.  
Fills the hole perfectly.  
Especially suitable for working with plastics and thin metal sheets.



### VERSAGRIP RIVET

Multi-grip behavior.  
Good filling of drill hole.  
Suitable for thin metal sheets.



### HARDVEX RIVET

Multigrip features.  
High shear and tensile strength.  
Provides vibration resistance.  
Especially suitable to work with thin and soft materials.



### TREBOL RIVET

Multigrip features.  
High resistance to corrosion.  
Mandrel locking system.  
Designed to fasten rigid materials to soft or low resistance materials.



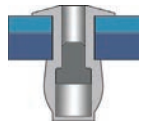
### PEELED RIVET

Creates a locking head with a big diameter.  
Ideal for the use in applications with soft or low resistance materials.  
Allows for use in oversized holes.  
Spreads the load and clamping force over a wide area.



### SEALED RIVET

Moisture and pressure tight.  
The joints are completely sealed to fluids, avoiding leakage of liquids or vapors.  
Reduces the risk of electrical problems or vibrations.  
The mandrel is completely locked within the head.



### GROOVED RIVET

This fastener does not need through holes.  
Safe method of joining metal to smooth and fibrous surfaces.  
Provides a high resistance joint.  
Ideal to fasten metal surfaces to wood, brick or cement.



### PROFILE CLINCHER

Specially designed for a fast and safe joining of moulds and clips.  
Used in the automotive and metalwork industries.  
Staggered body.  
Fast and simple with reduced cost assembly.



### GRIPMATE RIVET

Has an ample bearing area.  
Distributes the load.  
Recommended for use in applications with soft or low strength materials.  
Excellent appearance on both sides.

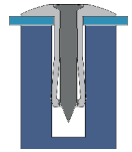


# BLIND RIVETS TYPES



## DRIVE RIVET

Effective method of joining sheets and profiles to soft and fibrous surfaces or roofs. This fastener does not need through holes. Large head creates a wide bearing area. Resistant to corrosion.



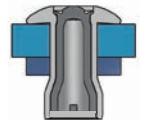
## STRUCTURAL RIVETS

These are designed to meet the most demanding of applications, where an exceptional resistance for both tensile and shear strength is needed. Quick and easy to install, they provide unalterable fastening for extensive periods.



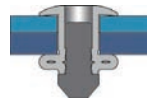
## STRUCTURAL RIVET

Multi-grip range features. High resistance to tensile and shear strength. Moisture and pressure tight. The hole is completely filled.



## HARDGRIP RIVET

Ideal for applications with hard plastics and thin sheets. Designed for the most demanding applications that require a great clamping force. High resistance to tensile and shear strengths. The hole is filled thoroughly.



## HARDLOCK RIVET

Designed for elements that require exceptional tensile and shear strengths. Effective head locking system through a mechanical locking of the grooves. Especially suitable to work with thin sheet materials. Avoids any kind of electrical problems and noise.



## LOCKBOLTS

A lock bolt is a two-piece metal fastener consisting of a collar and a grooved mandrel. It is secured when the collar is threaded onto the mandrel and pressed into place using a powerful tool. Lockbolts are used to create secure long term connections that are capable of withstanding force and vibration.



## BRALOCK

Multi-grip range features. Designed to have high tensile and shear strength. Provides vibration resistance. Used in industrial applications.



## UNILOCK

Controlling the break point characteristic. Retains a high clamping load. Excellent mechanical resistance. Obtains a clean uniform appearance.



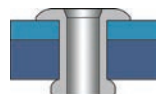
## SPEED RIVETS

Synonymous with speed and efficiency, they are supplied in a strip of paper (loading system) and placed using a repetition system with a single mandrel. Speed fastening offers a fast and high precision assembly that guarantee an increase in productivity. There are no interruptions and up to 60 rivets per minute can be set.



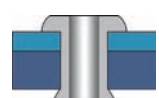
## SPEED RIVET BSR

Suitable for applications in metal, plastic and aluminum alloys. Increases productivity. Expands radially during installation. Good resistance to shear strength.



## SPEED RIVET BSV

Designed for joining of soft or low resistance materials. High precision and high quality assembly. Excellent hole filling properties. Good resistance to shear strength.



# BLIND RIVETS TYPES

## SPECIAL RIVETS AND ACCESSORIES



### MASS-RIVETS

Conceived to effectively earth on painted sheets without damaging the finished. Optimal conductivity and a solid and resistant fastening.



### NYLON COVERS FOR RIVETS

The covers are put prior to the riveting process. A very simple and fast setting process. They can be used with rivets with a diameter of 4.8 mm and length up to 16 mm.



### COPPERED NAILS

Ideal for repairing dents in body-work. Manufactured in steel and plated in copper ready to spot weld.



### STEEL WASHERS FOR RIVETS

Used when the back side of the application is made of a soft or brittle material (plastic, wood, etc.) or when the hole size is drilled in the back end. Useful in repairs as a consequence of replacing rivets.



### NYLON CAPS FOR RIVETS

Designed to protect and improve the visual aspect of blind rivets. Available in a wide range of colours.



### NEOPRENE WASHERS FOR RIVETS

Creates a locking head in blind rivets and in end closed insert nuts. They are extremely easy to use.



### LARGE MANDREL



### GROOVED MANDREL

## Selection of the rivet

### ASSEMBLY MATERIAL

The selection of the rivet depends on the type of material being assembled. When working on a soft or fragile material like wood, plastic, or a car number plate, the appropriate rivets would be the Peeled, Trebol and S-Trebol rivet. The Multigrip rivet is suitable for joining plastics and slim metallic plates. In metal work and the motor sector, the clip and mouldings will be fixed with a Profile Clincher. The Grooved rivets assemble metal to fibrous surfaces such as wood and bricks.

### GRIP RANGE

The thickness of the pieces being assembled must be within the rivet grip range. The Structural, Multigrip and Trebol rivet have multigrip capability. They are versatile rivets that can be used in wide grip. This helps to reduce the inventory.

### DIAMETER DRILL RANGE

The appropriate hole is specified in the rivet table. It's necessary to verify the hole diameter in order to offer enhanced performance benefits.

### IMPERMEABILITY AND HERMETIC CLOSURE

There are situations with liquid and vapor leaks, where it's necessary for a rivet to fill the hole, like the Sealed, Structural and S-Trebol Rivet. They also absorb vibrations and reduce electrical problems.

### CORROSION RESISTANCE

Corrosion resistance, which every application requires, is a determining factor. Select the rivets as well as the pieces to be joined, in order to obtain the best resistance. Aluminum-magnesium rivets offer optimal corrosion resistance, even if the most resistant material is A2 or A4 stainless steel. Furthermore, A3K-steel rivets are more than eight microns and are therefore more resistant.

Various protective coatings and surface treatments are used to improve resistance to inclement weather. These include organic coatings like Delta-Seal and Delta-Protekt, anodized aluminium products that protect them from corrosion caused by saline agent, and the passivation process carried out on stainless steel; we can also apply protective coatings with or without sealants to steel rivets and nuts, the best known being Nickel Zinc (P9B), Iron Zinc (R3S) and 8  $\mu$ m zincplated (A3K) or black zincplated (A3S).

### SHEAR AND TENSILE STRENGTH

The Aluminium Magnesium Rivets offer more resistance to the shear and tensile strength. The BRALO Structural Rivets and Lockbolts are the best to use on applications with strong loads.

### ENDINGS

Sometimes the color rivet must be adjusted to the aesthetic characteristics of the applications. The BRALO Rivets have countless lacquers, with epoxy spray paint. We have more than 100 colours from white to black according to the RAL standard.



# LACQUERS AND COLOURS

BRALO have no limits when it comes to variety. Our extensive search for materials and our constant use of innovative technology have established the widest range of finishes in the market.



## EPOXY PAINTING

BRALO standard rivets are available in an infinity of lacquering with liquid epoxy painting. From black to white, we have a range of over 100 RAL colours and we can make special lacquering upon request.

With working alongside the customer, we can make custom designs adapting to the specific needs of every application.



## COLOUR/RAL

Bronze Anodised	Yellow 1021	Blue 5007	Blue 5017	Grey 7038	Grey 7030	Grey 7023	Brown 8024	Red 3009	Green 6009
Brown Anodised	Yellow 1104	Blue 5001	Blue 5018	Grey 9006	Grey 7040	Grey 7043	Brown 8004	Red 3020	Green 6024
Black Anodised	Yellow 1028	Blue 5012	Blue 5020	Grey 7022	Grey 7011	Grey 7042	Brown 8017	Red 3027	Green 6013
Gold Anodised	Yellow 1006	Blue 5021	Cream 1014	Grey 9002	Grey 7005	Grey 7046	Brown 8003	Red 3030	Green 6008
Silver Anodised	Yellow 1003	Blue 5009	Cream 1011	Grey 7024	Grey 7015	Grey 7048	Brown 8028	Red 3016	Green 6011
Copper Anodised	Yellow 1004	Blue 5003	Cream 1015	Grey 7035	Grey 7004	Grey 7008	Brown 8025	Red 3002	Green 6019
White	Yellow 1018	Blue 5013	Cream 1013	Grey 7037	Grey 7021	Grey 7001	Brown 8007	Red 8012	Green 6020
White 9010	Yellow 1023	Blue 5008	Cream 1035	Grey 9018	Grey 7047	Grey 7039	Brown 8001	Pink 3012	Green 6021
White 9001	Yellow 1017	Blue 5005	Burgundy 3005	Grey 7032	Grey 7033	Orange 2004	Brown 8022	Violet 4009	Green 6018
White 9016	Yellow 1034	Blue 5014	Burgundy 3007	Grey 9007	Grey 7003	Orange 2000	Brown 8015	Green 6002	Green 6028
White 9003	Yellow 1032	Blue 5022	Red 3011	Grey 7016	Grey 7009	Orange 2001	Brown 8023	Green 6003	Green 6032
Black 9005	Blue 5010	Blue 5002	Cream 1001	Grey 7000	Grey 7012	Brown 8014	Brown 8016	Green 6005	Green 6027
Black 9011	Blue 5011	Blue 5000	Cream 1002	Grey 7031	Grey 7013	Brown 8019	Red 3000	Green 6007	Green 6029

# LACQUERS AND COLOURS

## MANUAL COATING...



## ...OR AUTOMATIC

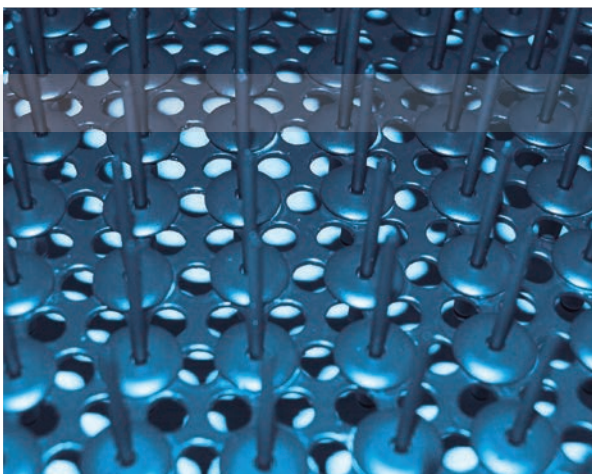
### AUTOMATIC COATING

At BRALO, we are characterized by being coating specialists. The production process consists of painting the rivet heads in an automatic device, connected to a motor-generator. The equipment has a control panel to regulate the paint valves, pump movement, and the heating equipment.

Aluminium rivet heads are coated for ventilated façades, and construction and automotive projects.



Painting aluminium rivet heads for a minimum quantity.



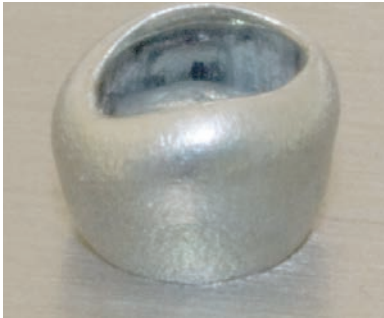
Painting the rivet's face side. Aluminium, steel, and stainless steel rivets are painted, regardless of quantity.

### MANUAL COATING

Our working methods are more personalized because we carry out your projects with more precision, thanks to dry spraying devices with uniform flow distribution.

For clients that have specific applications with aluminium, steel, and stainless steel rivets, the already-assembled rivets are placed in trays; the heads' flanges, face sides, and the part that remains in the application are painted.

# ALUMINIUM RIVETS



## STANDARD RIVET

Wide grip range.

Where especially high torque force is not needed.

Great variety of materials.

Fast and simple with great quality assembly.

Various protective covers and surface treatments, including organic coverings such as Delta-Seal or Delta Protekt, are used to improve every piece's ability to withstand the elements. Aluminium products can be anodized, protecting them from abrasion and corrosion caused by saline agents.

Polishing is a surface-finishing process meant to obtain a brilliant and uniform surface. This type of finish is used in materials such as aluminium.

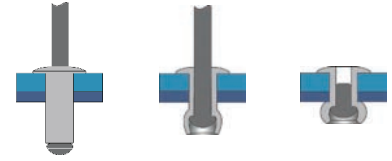
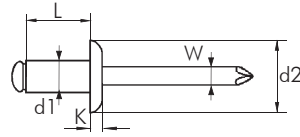
In the following table you can see the characteristics of aluminum rivets:

COATINGS AND PASSIVATION	APPEARANCE	USE IN CORROSION CONDITIONS
Anodised	Silver or black	Severe
Lacquering (epoxic painted)	According to color	Light
Delta-Seal grey	Grey	Severe
Delta-Seal black	Black	Severe
Polished	Metal	Moderate


## ALUMINIUM/STEEL

STANDARD RIVET  
Dome head

- BODY: Aluminium Al Mg 3,5
- MANDREL: Steel Zincplated A1K



UNE - EN ISO 15977

d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		E MIN. mm MAX		(N)	(N)	REFERENCE
						Inner	Outer					
2,4	4	2,50	5,00	0,60	1,45	1.000	8.000	0,5	- 2,0	350	550	01010002404
	6					1.000	8.000	2,0	- 4,0			01010002406
	8					1.000	8.000	4,0	- 6,0			01010002408
	10					1.000	8.000	6,0	- 8,0			01010002410
	12					1.000	8.000	8,0	- 9,5			01010002412
3,0	4	3,10	6,00	1,00	1,80	500	4.000	0,5	- 1,5	550	850	01010003004
	5					500	4.000	0,5	- 2,5			01010003005
	6					500	4.000	1,5	- 3,5			01010003006
	7					500	4.000	1,5	- 4,5			01010003007
	8					500	4.000	3,5	- 5,0			01010003008
	9					500	4.000	5,5	- 6,0			01010003009
	10					500	4.000	5,0	- 7,0			01010003010
	12					500	4.000	7,0	- 9,0			01010003012
	14					500	4.000	9,0	- 11,0			01010003014
	16					500	4.000	11,0	- 13,0			01010003016
18	500	4.000	13,0	- 15,0	01010003018							
3,2	4	3,30	6,40	1,00	1,80	500	4.000	0,5	- 2,5	750	1.100	01010003204
	5					500	4.000	0,5	- 2,5			01010003205
	6					500	4.000	1,5	- 3,5			01010003206
	8					500	4.000	3,5	- 5,0			01010003208
	10					500	4.000	5,0	- 7,0			01010003210
	12					500	4.000	7,0	- 9,0			01010003212
	15					500	4.000	9,0	- 12,0			01010003215
	18					500	4.000	12,0	- 15,0			01010003218
	20					500	4.000	15,0	- 18,0			01010003220
	4,0					5	4,10	8,00	1,40			2,20
6		500	4.000	1,0	- 3,0	01010004006						
7		500	4.000	3,0	- 4,5	01010004007						
8		500	4.000	3,0	- 5,0	01010004008						
10		500	4.000	5,0	- 6,5	01010004010						
12		500	3.000	6,5	- 8,5	01010004012						
14		500	3.000	8,5	- 10,5	01010004014						
16		500	3.000	10,5	- 12,5	01010004016						
18		500	3.000	12,5	- 14,5	01010004018						
20		500	3.000	14,5	- 16,5	01010004020						
25		250	1.500	16,5	- 21,5	01010004025						
30		250	1.500	21,5	- 26,0	01010004030						
35		250	1.500	26,0	- 31,0	01010004035						
40	250	1.500	31,0	- 36,0	01010004040							
4,8	6	4,90	9,50	1,50	2,65	500	3.000	0,5	- 3,0	1.850	2.600	01010004806
	8					500	3.000	3,0	- 4,5			01010004808
	10					500	3.000	4,5	- 6,0			01010004810
	12					500	3.000	6,0	- 8,0			01010004812
	14					250	2.000	8,0	- 10,0			01010004814
	16					250	2.000	10,0	- 12,0			01010004816
	18					250	1.500	12,0	- 14,0			01010004818
	21					250	1.500	14,0	- 17,0			01010004821
	24					200	1.200	17,0	- 20,0			01010004824
	27					200	1.200	20,0	- 23,0			01010004827
	30					200	1.200	23,0	- 25,0			01010004830
	32					200	1.200	25,0	- 27,0			01010004832
	35					200	1.200	27,0	- 30,0			010100048352
	40					150	900	30,0	- 35,0			01010004840
	45					100	600	35,0	- 40,0			01010004845
50	100	600	40,0	- 45,0	01010004850							

Tests according to EN ISO 14589

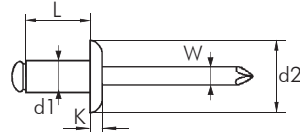
# STANDARD RIVET

## Dome head







# ALUMINIUM/STEEL



- BODY: Aluminium Al Mg 3,5
- MANDREL: Steel Zincplated A1K



### UNE - EN ISO 15977

d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 MIN. mm MAX	 (N)	 (N)	REFERENCE						
						 Inner	 Outer										
5,0	6	5,10	9,50	1,60	2,65	500	3.000	0,5 - 3,0	2.150	3.100	01010005006						
	8					500	3.000	3,0 - 4,5			01010005008						
	10					500	3.000	4,5 - 6,0			01010005010						
	12					500	3.000	6,0 - 8,0			01010005012						
	14					250	2.000	8,0 - 10,0			01010005014						
	16					250	2.000	10,0 - 12,0			01010005016						
	18					250	1.500	12,0 - 14,0			01010005018						
	20					250	1.500	14,0 - 16,0			01010005020						
	25					200	1.200	16,0 - 21,0			01010005025						
	30					200	1.200	21,0 - 25,0			01010005030						
	35					150	900	27,0 - 30,0			01010005035						
6,0	8	6,10	12,00	1,80	3,20	250	1.500	2,0 - 3,0	3.200	4.600	01010006008						
	10					250	1.500	3,0 - 5,0			01010006010						
	12					250	1.500	5,0 - 7,0			01010006012						
	14					250	1.500	7,0 - 9,0			01010006014						
	16					250	1.500	9,0 - 11,0			01010006016						
	18					200	1.200	11,0 - 13,0			01010006018						
	20					200	1.200	13,0 - 15,0			01010006020						
	25					200	1.200	15,0 - 20,0			01010006025						
	30					150	900	20,0 - 25,0			01010006030						
	35					100	600	25,0 - 30,0			01010006035						
	6,4					12	6,50	13,00			2,20	3,60	250	1.500	3,0 - 6,0	3.400	4.850
15		250	1.500	6,0 - 9,0	01010006415												
18		200	1.200	9,0 - 12,0	01010006418												
22		200	1.200	12,0 - 16,0	01010006422												
26		150	900	16,0 - 20,0	01010006426												
30		150	900	20,0 - 22,0	01010006430												
35		100	600	24,0 - 29,0	01010006435												
40		500	29,0 - 34,0	G1010006440													
50		500	29,0 - 42,0	01010006450													
7,8		15	8,00	13,50	2,20	3,60			1.000	6,0 - 9,0			5.000	7.500	G1010007815		
		22							1.000	9,0 - 16,0					G1010007822		

Tests according to EN ISO 14589



d1 Ø mm	L Nominal mm	BRONZE PAINTED REFERENCE	PACKAGING	
			Inner	Outer
<b>4,0</b>	<b>8</b>	01010AB4008	500	4.000
	<b>10</b>	01010AB4010	500	4.000
	<b>12</b>	01010AB4012	500	3.000
<b>4,8</b>	<b>10</b>	01010AB4810	500	3.000
	<b>12</b>	01010AB4812	500	3.000

d1 Ø mm	L Nominal mm	WHITE PAINTED REFERENCE	PACKAGING	
			Inner	Outer
<b>2,4</b>	<b>4</b>	01010BL2404	1.000	8.000
<b>3,2</b>	<b>6</b>	01010BL3206	500	4.000
	<b>8</b>	01010BL3208	500	4.000
	<b>10</b>	01010BL3210	500	4.000
	<b>12</b>	01010BL3212	500	4.000
	<b>15</b>	01010BL3215	500	4.000
	<b>18</b>	01010BL3218	500	4.000
<b>4,0</b>	<b>6</b>	01010BL4006	500	4.000
	<b>8</b>	01010BL4008	500	4.000
	<b>10</b>	01010BL4010	500	4.000
	<b>12</b>	01010BL4012	500	3.000
	<b>14</b>	01010BL4014	500	3.000
	<b>16</b>	01010BL4016	500	3.000
	<b>18</b>	01010BL4018	500	3.000
	<b>20</b>	01010BL4020	500	3.000
	<b>25</b>	01010BL4025	250	1.500
	<b>30</b>	01010BL4030	250	1.500
<b>4,8</b>	<b>6</b>	01010BL4806	500	3.000
	<b>8</b>	01010BL4808	500	3.000
	<b>10</b>	01010BL4810	500	3.000
	<b>12</b>	01010BL4812	500	3.000
	<b>14</b>	01010BL4814	250	2.000
	<b>16</b>	01010BL4816	250	2.000
	<b>18</b>	01010BL4818	250	1.500
	<b>21</b>	01010BL4821	250	1.500
	<b>24</b>	01010BL4824	200	1.200
	<b>27</b>	01010BL4827	200	1.200
<b>30</b>	01010BL4830	200	1.200	


d1 Ø mm	L Nominal mm	BLACK PAINTED RAL 9005 REFERENCE	PACKAGING	
			Inner	Outer
<b>2,4</b>	<b>4</b>	01010N02404	1.000	8.000
	<b>6</b>	01010N02406	1.000	8.000
<b>3,2</b>	<b>6</b>	01010N03206	500	4.000
	<b>8</b>	01010N03208	500	4.000
	<b>10</b>	01010N03210	500	4.000
	<b>12</b>	01010N03212	500	4.000
	<b>15</b>	01010N03215	500	4.000
	<b>18</b>	01010N03218	500	4.000
<b>4,0</b>	<b>6</b>	01010N04006	500	4.000
	<b>8</b>	01010N04008	500	4.000
	<b>10</b>	01010N04010	500	4.000
	<b>12</b>	01010N04012	500	3.000
	<b>14</b>	01010N04014	500	3.000
	<b>16</b>	01010N04016	500	3.000
	<b>18</b>	01010N04018	500	3.000
	<b>20</b>	01010N04020	500	3.000
	<b>25</b>	01010N04025	250	1.500
	<b>30</b>	01010N04030	250	1.500
<b>4,8</b>	<b>6</b>	01010N04806	500	3.000
	<b>8</b>	01010N04808	500	3.000
	<b>10</b>	01010N04810	500	3.000
	<b>12</b>	01010N04812	500	3.000
	<b>14</b>	01010N04814	250	2.000
	<b>16</b>	01010N04816	250	2.000
	<b>18</b>	01010N04818	250	1.500
	<b>21</b>	01010N04821	250	1.500
	<b>24</b>	01010N04824	200	1.200
	<b>27</b>	01010N04827	200	1.200
<b>30</b>	01010N04830	200	1.200	
<b>40</b>	01010N04840	150	900	


Black prices: Pieces available for immediate delivery.  
Red prices: Under request, consult minimum quantity.


# STANDARD RIVET


Colours in stock


# ALUMINIUM/STEEL


			
d1 Ø mm	L Nominal mm	BEIGE PAINTED RAL 1015 REFERENCE	PACKAGING Inner Outer
3,2	8	01010BE3208	500 4.000
	10	01010BE3210	500 4.000
4,0	8	01010BE4008	500 4.000
	10	01010BE4010	500 4.000


			
d1 Ø mm	L Nominal mm	GREY PAINTED RAL 7016 REFERENCE	PACKAGING Inner Outer
3,2	8	01010GA3208	500 4.000


			
d1 Ø mm	L Nominal mm	GREY PAINTED RAL 7038 REFERENCE	PACKAGING Inner Outer
3,2	8	01010G03208	500 4.000
4,0	8	01010G04008	500 4.000
	10	01010G04010	500 4.000

			
d1 Ø mm	L Nominal mm	GREY PAINTED RAL 9006 REFERENCE	PACKAGING Inner Outer
3,2	8	01010G13208	500 4.000
	10	01010G13210	500 4.000
4,0	8	01010G14008	500 4.000
	10	01010G14010	500 4.000
	12	01010G14012	500 3.000
4,8	12	01010G14812	500 3.000


			
d1 Ø mm	L Nominal mm	GREY PAINTED RAL 7024 REFERENCE	PACKAGING Inner Outer
3,2	8	01010G43208	500 4.000
4,0	8	01010G44008	500 4.000

			
d1 Ø mm	L Nominal mm	BROWN PAINTED RAL 8017 REFERENCE	PACKAGING Inner Outer
3,2	8	01010M43208	500 4.000
4,0	8	01010M44008	500 4.000
	10	01010M44010	500 4.000
	12	01010M44012	500 3.000


			
d1 Ø mm	L Nominal mm	BLUE PAINTED RAL 5010 REFERENCE	PACKAGING Inner Outer
4,0	8	01010A04008	500 4.000
	10	01010A04010	500 4.000
	12	01010A04012	500 3.000




d1 Ø mm	L Nominal mm	BROWN PAINTED RAL 8014 REFERENCE	PACKAGING Inner Outer	
3,2	8	01010M03208	500	4.000
	10	01010M03210	500	4.000
4,0	8	01010M04008	500	4.000
	10	01010M04010	500	4.000
	12	01010M04012	500	3.000
4,8	10	01010M04810	500	3.000
	12	01010M04812	500	3.000



d1 Ø mm	L Nominal mm	GREEN PAINTED RAL 6005 REFERENCE	PACKAGING Inner Outer	
3,2	10	01010V13210	500	4.000
4,0	8	01010V14008	500	4.000
	10	01010V14010	500	4.000
	12	01010V14012	500	3.000
4,8	10	01010V14810	500	3.000
	12	01010V14812	500	3.000



d1 Ø mm	L Nominal mm	RED PAINTED RAL 3000 REFERENCE	PACKAGING Inner Outer	
4,0	8	01010R04008	500	4.000



d1 Ø mm	L Nominal mm	COPPER PAINTED REFERENCE	PACKAGING Inner Outer	
3,2	8	01010CU3208	500	4.000

Note: Under request, lacquered and anodized rivets are made.  
Consult minimum quantity and colour according to RAL.

## AVAILABLE COLOURS ACCORDING TO RAL CART

Colour	RAL	Code	Colour	RAL	Code	Colour	RAL	Code	Colour	RAL	Code	Colour	RAL	Code
Bronze		AB	Blue	5008	A8	Grey	7038	G0	Grey	7013	GS	Red	3027	R3
Brown		AM	Blue	5005	A9	Grey	9006	G1	Grey	7023	GU	Red	3003	R4
Black		AN	Blue	5014	AA	Grey	7022	G2	Grey	7043	GV	Red	3016	R5
Gold		AO	Blue	5022	AC	Grey	9002	G3	Grey	7042	GZ	Red	3002	RC
Silver		AP	Blue	5017	AD	Grey	7024	G4	Grey	7046	H6	Red	8012	RP
Copper		AV	Blue	5011	AE	Grey	7035	G5	Grey	7048	H8	Pink	3012	RO
Cava		CV	Blue	5020	AF	Grey	7003	GN	Grey	7008	HA	Orange	2011	ND
Yellow	1021	J0	Blue	5002	AG	Grey	7037	G6	Brown	8011	MV	Orange	2004	NA
Yellow	1104	J1	Blue	5008	AH	Grey	9018	G7	Brown	8014	M0	Orange	2000	NB
Yellow	1028	J2	Blue	5000	AJ	Grey	7032	G8	Brown	8019	M1	Orange	2001	NC
Yellow	1006	J3	Blue	5018	AK	Grey	9007	G9	Brown	8024	M2	Green	6002	V0
Yellow	1003	J4	Cream	1019	BH	Grey	7016	GA	Brown	8004	M3	Green	6005	V1
Yellow	1004	J5	Cream	1014	B4	Grey	7000	GB	Brown	8017	M4	Green	6021	V2
Yellow	1018	J6	Cream	1011	B5	Grey	7031	GC	Brown	8003	M5	Green	6009	V3
Yellow	1023	J7	Cream	1015	BE	Grey	7040	GD	Brown	8028	M6	Green	6024	V4
Yellow	1017	JA	Cream	1013	B1	Grey	7030	GE	Brown	8025	M7	Green	6003	V5
Yellow	1034	JP	Cream	1035	B2	Grey	7011	GF	Brown	8007	M8	Green	6013	V6
Yellow	1032	JR	White	9001	B3	Grey	7005	GG	Brown	8001	M9	Green	6008	V7
Blue	5010	A0	White		BL	Grey	7015	GH	Brown	8022	MA	Green	6011	V8
Blue	5007	A1	White	9016	BM	Grey	7004	GI	Brown	8015	MC	Green	6019	V9
Blue	5001	A2	White	9003	BS	Grey	7021	GJ	Brown	8023	MN	Green	6020	VC
Blue	5012	A3	White	9010	BB	Grey	7047	GL	Black	9005	N0	Green	6018	VD
Blue	5021	A4	Cream	1001	C0	Grey	7033	GM	Black	9011	N1	Green	6028	VP
Blue	5009	A5	Cream	1002	C1	Grey	7003	GN	Red	3000	R0	Green	6032	V5
Blue	5003	A6	Burgundy	3005	D0	Grey	7009	GP	Red	3009	R1	Green	6027	VL
Blue	5013	A7	Burgundy	3007	D1	Grey	7012	GR	Red	3020	R2	Green	6029	VM
			Red	3011	D2									

The name of the colours is for guidance only.  
Example: Bronze rivet 4,8x35 01010AB4835.



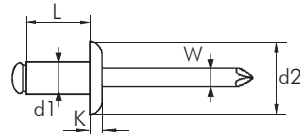
# STANDARD RIVET TUBE

## Dome head







# ALUMINIUM/STEEL



- BODY: Aluminium Al Mg 3
- MANDREL: Steel Zincplated A1K



UNE - EN ISO 15977

d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MAX	 (N)	 (N)	REFERENCE		
						 Inner	 Outer						
<b>5,0</b>	<b>55</b>	5,10	9,30	1,50	3,73	100	600	45,0 - 50,0	2.000	2.750	01050005055		
	<b>60</b>										500	50,0 - 55,0	01050005060
	<b>65</b>										500	55,0 - 60,0	01050005065
	<b>70</b>										500	60,0 - 65,0	01050005070
	<b>75</b>										500	65,0 - 70,0	01050005075
	<b>80</b>										500	70,0 - 75,0	01050005080
	<b>90</b>										500	75,0 - 85,0	01050005090
	<b>100</b>										500	85,0 - 95,0	010500050100
	<b>110</b>										500	95,0 - 105,0	010500050110
	<b>120</b>										250	105,0 - 115,0	010500050120
	<b>130</b>										250	115,0 - 125,0	010500050130
	<b>140</b>										250	125,0 - 135,0	010500050140
	<b>150</b>										250	135,0 - 145,0	010500050150
	<b>160</b>										250	145,0 - 155,0	010500050160
<b>170</b>	250	155,0 - 165,0	010500050170										
<b>180</b>	250	165,0 - 175,0	010500050180										
<b>190</b>	250	175,0 - 185,0	010500050190										
<b>6,4</b>	<b>80</b>	6,50	12,5	1,80	3,60	500	42,0 - 73,0	2.540	3.400	01050006480			
	<b>100</b>									250	73,0 - 93,0	010500064100	
	<b>120</b>									250	93,0 - 113,0	010500064120	
	<b>150</b>									250	113,0 - 143,0	010500064150	
	<b>175</b>									250	143,0 - 168,0	010500064175	

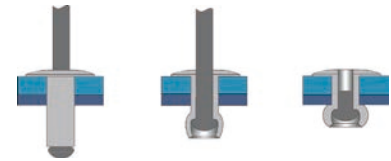
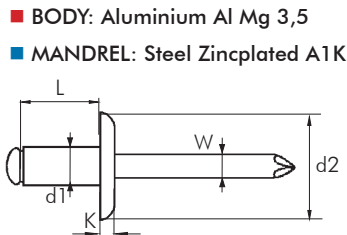
Tests according to EN ISO 14589









**Note:** Under request, lacquered and anodized rivets are made. Consult minimum quantity and colour according to RAL.

Black prices: Pieces available for immediate delivery.  
Red prices: Under request, consult minimum quantity.

## ALUMINIUM/STEEL

STANDARD RIVET  
Large head

d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MAX	 (N)	 (N)	REFERENCE
						 Inner	 Outer				
<b>3,2</b>	<b>6</b>	3,30	<b>9,50</b>	1,10	1,80	500	4.000	0,5 - 3,5	750	1.100	01030003206
	<b>8</b>					500	4.000	3,5 - 5,0			01030003208
	<b>10</b>					500	4.000	5,0 - 7,0			01030003210
	<b>12</b>					500	4.000	7,0 - 9,0			01030003212
	<b>16</b>					500	3.000	9,0 - 13,0			01030003216
<b>4,0</b>	<b>8</b>	4,10	<b>12,00</b>	1,40	2,20	500	3.000	3,0 - 5,0	1.250	1.800	01040004008
	<b>10</b>					500	3.000	5,0 - 6,5			01040004010
	<b>12</b>					250	2.000	6,5 - 8,5			01040004012
	<b>14</b>					250	2.000	8,5 - 10,5			01040004014
	<b>16</b>					250	2.000	10,5 - 12,5			01040004016
	<b>18</b>					250	2.000	12,5 - 14,5			01040004018
	<b>20</b>					250	2.000	14,5 - 16,5			01040004020
<b>4,8</b>	<b>10</b>	4,90	<b>14,00</b>	1,80	2,65	250	1.500	4,5 - 6,0	1.850	2.600	01030004810
	<b>12</b>					250	1.500	6,0 - 8,0			01030004812
	<b>14</b>					250	1.500	8,0 - 10,0			01030004814
	<b>16</b>					250	1.500	10,0 - 12,0			01030004816
	<b>18</b>					200	1.200	12,0 - 14,0			01030004818
	<b>21</b>					200	1.200	14,0 - 17,0			01030004821
	<b>24</b>					150	900	17,0 - 20,0			01030004824
	<b>27</b>					150	900	20,0 - 23,0			01030004827
	<b>30</b>					150	900	23,0 - 25,0			01030004830
	<b>35</b>					100	600	25,0 - 30,0			01030004835
	<b>40</b>					100	600	30,0 - 35,0			01030004840
	<b>45</b>					100	600	35,0 - 40,0			01030004845
	<b>50</b>					100	600	40,0 - 45,0			01030004850
<b>4,8</b>	<b>10</b>	4,90	<b>16,00</b>	1,80	2,65	250	1.500	4,5 - 6,0	1.850	2.600	01040004810
	<b>12</b>					250	1.500	6,0 - 8,0			01040004812
	<b>14</b>					200	1.200	8,0 - 10,0			01040004814
	<b>16</b>					200	1.200	10,0 - 12,0			01040004816
	<b>18</b>					200	1.200	12,0 - 14,0			01040004818
	<b>21</b>					150	900	14,0 - 17,0			01040004821
	<b>24</b>					150	900	17,0 - 20,0			01040004824
	<b>27</b>					150	900	20,0 - 23,0			01040004827
	<b>30</b>					100	600	23,0 - 25,0			01040004830
	<b>35</b>					100	600	25,0 - 30,0			01040004835
<b>5,0</b>	<b>8</b>	5,10	<b>11,00</b>	1,60	2,65	250	2.000	3,0 - 4,5	2.150	3.100	01031005008
	<b>10</b>					250	2.000	4,5 - 6,0			01031005010
	<b>12</b>					250	2.000	6,0 - 8,0			01031005012
	<b>14</b>					250	1.500	8,0 - 10,0			01031005014
	<b>16</b>					250	1.500	10,0 - 12,0			01031005016
	<b>18</b>					250	1.500	12,0 - 14,0			01031005018
	<b>20</b>					250	1.500	14,0 - 16,0			01031005020
	<b>25</b>					250	1.500	16,0 - 21,0			01031005025
	<b>30</b>					200	1.200	21,0 - 25,0			01031005030
<b>5,0</b>	<b>8</b>	5,10	<b>14,00</b>	1,80	2,65	250	2.000	3,0 - 4,5	2.150	3.100	01030005008
	<b>10</b>					250	1.500	4,5 - 6,0			01030005010
	<b>12</b>					250	1.500	6,0 - 8,0			01030005012
	<b>14</b>					250	1.500	8,0 - 10,0			01030005014
	<b>16</b>					250	1.500	10,0 - 12,0			01030005016
	<b>18</b>					200	1.200	12,0 - 14,0			01030005018
	<b>20</b>					200	1.200	14,0 - 16,0			01030005020
	<b>25</b>					150	900	16,0 - 21,0			01030005025
	<b>30</b>					150	900	21,0 - 25,0			01030005030
<b>6,4</b>	<b>10</b>	6,50	<b>15,00</b>	2,00	3,60		1.000	2,0 - 4,0	3.400	4.850	G1035006410
	<b>12</b>						1.000	3,0 - 6,0			G1035006412

Tests according to EN ISO 14589

Note: Under request, lacquered and anodized rivets are made. Consult minimum quantity and colour according to RAL.

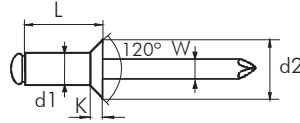
# STANDARD RIVET

## Countersunk head 120°







# ALUMINIUM/STEEL



- BODY: Aluminium Al Mg 3,5
- MANDREL: Steel Zincplated A1K



### UNE - EN ISO 15978

d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 MIN. mm MAX	 (N)	 (N)	REFERENCE
						 Inner	 Outer				
<b>2,4</b>	<b>6</b>	2,50	5,00	0,80	1,45	1.000	8.000	2,0 - 4,0	350	550	01020002406
	<b>8</b>					1.000	8.000	4,0 - 6,0			01020002408
	<b>10</b>					1.000	8.000	6,0 - 8,0			01020002410
<b>3,0</b>	<b>6</b>	3,10	6,00	1,10	1,80	500	4.000	2,0 - 3,5	550	850	01020003006
	<b>8</b>					500	4.000	3,5 - 5,0			01020003008
	<b>10</b>					500	4.000	5,0 - 7,0			01020003010
	<b>12</b>					500	4.000	7,0 - 9,0			01020003012
	<b>14</b>					500	4.000	9,0 - 11,0			01020003014
	<b>16</b>					500	4.000	11,0 - 13,0			01020003016
<b>3,2</b>	<b>6</b>	3,30	6,40	1,10	1,80	500	4.000	2,0 - 3,5	750	1.100	01020003206
	<b>8</b>					500	4.000	3,5 - 5,0			01020003208
	<b>10</b>					500	4.000	5,0 - 7,0			01020003210
	<b>12</b>					500	4.000	7,0 - 9,0			01020003212
	<b>15</b>					500	4.000	9,0 - 11,0			01020003215
	<b>18</b>					500	4.000	11,0 - 13,0			01020003218
<b>4,0</b>	<b>6</b>	4,10	7,80	1,40	2,20	500	4.000	1,5 - 3,0	1.250	1.800	01020004006
	<b>8</b>					500	4.000	3,0 - 5,0			01020004008
	<b>10</b>					500	4.000	5,0 - 6,5			01020004010
	<b>12</b>					500	3.000	6,5 - 8,5			01020004012
	<b>14</b>					500	3.000	8,5 - 10,5			01020004014
	<b>16</b>					500	3.000	10,5 - 12,5			01020004016
	<b>18</b>					500	3.000	12,5 - 14,5			01020004018
	<b>20</b>					500	3.000	14,5 - 16,5			01020004020
<b>4,8</b>	<b>6</b>	4,90	9,50	1,80	2,65	500	3.000	2,0 - 3,0	1.850	2.600	01020004806
	<b>8</b>					500	3.000	3,0 - 4,5			01020004808
	<b>10</b>					500	3.000	4,5 - 6,0			01020004810
	<b>12</b>					500	3.000	6,0 - 8,0			01020004812
	<b>14</b>					250	2.000	8,0 - 10,0			01020004814
	<b>16</b>					250	2.000	10,0 - 12,0			01020004816
	<b>18</b>					250	1.500	12,0 - 14,0			01020004818
	<b>21</b>					250	1.500	14,0 - 17,0			01020004821
	<b>24</b>					200	1.200	17,0 - 20,0			01020004824
	<b>27</b>					200	1.200	20,0 - 23,0			01020004827
	<b>30</b>					200	1.200	23,0 - 25,0			01020004830
<b>35</b>	150	900	25,0 - 30,0	01020004835							
<b>5,0</b>	<b>6</b>	5,10	9,50	1,80	2,65	500	3.000	2,0 - 3,0	2.150	3.100	01020005006
	<b>8</b>					500	3.000	3,0 - 4,5			01020005008
	<b>10</b>					500	3.000	4,5 - 6,0			01020005010
	<b>12</b>					500	3.000	6,0 - 8,0			01020005012
	<b>14</b>					250	2.000	8,0 - 10,0			01020005014
	<b>16</b>					250	2.000	10,0 - 12,0			01020005016
	<b>18</b>					250	2.000	12,0 - 14,0			01020005018
	<b>20</b>					250	1.500	14,0 - 16,0			01020005020
	<b>25</b>					200	1.200	16,0 - 21,0			01020005025
	<b>30</b>					200	1.200	21,0 - 25,0			01020005030

Tests according to EN ISO 14589



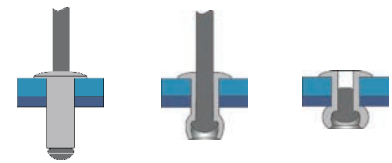
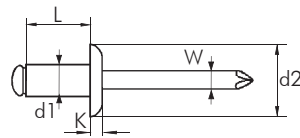
Note: Under request, lacquered and anodized rivets are made. Consult minimum quantity and colour according to RAL.





## ALUMINIUM/STAINLESS STEEL A2

STANDARD RIVET  
Dome head

■ BODY: Aluminium Al Mg 3,5

■ MANDREL: Stainless steel AISI 304



d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		 MIN. mm MAX	 (N)	 (N)	REFERENCE	
						Inner	Outer					
2,4	5	2,50	5,00	0,60	1,45	1.000	8.000	0,5 - 2,0	350	550	01019002405	
	6					1.000	8.000	2,0 - 4,0				01019002406
	8					1.000	8.000	4,0 - 6,0				01019002408
	10					1.000	8.000	6,0 - 8,0				01019002410
3,0	8	3,10	6,00	1,00	1,80	500	4.000	3,5 - 5,0	550	850	01019003008	
3,2	6	3,30	6,40	1,00	1,80	500	4.000	1,5 - 3,5	750	1.100	01019003206	
	8					500	4.000	3,5 - 5,0			01019003208	
	10					500	4.000	5,0 - 7,0			01019003210	
	12					500	4.000	7,0 - 9,0			01019003212	
	15					500	4.000	9,0 - 12,0			01019003215	
	18					500	4.000	12,0 - 15,0			01019003218	
	20					500	3.000	15,0 - 18,0			01019003220	
4,0	6	4,10	8,00	1,40	2,20	500	4.000	1,0 - 3,0	1.250	1.800	01019004006	
	8					500	4.000	3,0 - 5,0			01019004008	
	10					500	4.000	5,0 - 6,5			01019004010	
	12					500	3.000	6,5 - 8,5			01019004012	
	14					500	3.000	8,5 - 10,5			01019004014	
	16					500	3.000	10,5 - 12,5			01019004016	
	18					500	3.000	12,5 - 14,5			01019004018	
	20					500	3.000	14,5 - 16,5			01019004020	
	25					250	1.500	16,5 - 21,5			01019004025	
	4,8					6	4,90	9,50			1,50	2,65
8		500	3.000	3,0 - 4,5	01019004808							
10		500	3.000	4,5 - 6,0	01019004810							
12		500	3.000	6,0 - 8,0	01019004812							
14		250	2.000	8,0 - 10,0	01019004814							
16		250	2.000	10,0 - 12,0	01019004816							
18		250	1.500	12,0 - 14,0	01019004818							
21		250	1.500	14,0 - 17,0	01019004821							
24		200	1.200	17,0 - 20,0	01019004824							
27		200	1.200	20,0 - 23,0	01019004827							
30		200	1.200	23,0 - 25,0	01019004830							
35		150	900	25,0 - 30,0	01019004835							
40		150	900	30,0 - 35,0	01019004840							
45		100	600	35,0 - 40,0	01019004845							
5,0	6	5,10	9,50	1,60	2,65	500	3.000	0,5 - 3,0	2.150	3.100	01019005006	
	8					500	3.000	3,0 - 4,5			01019005008	
	10					500	3.000	4,5 - 6,0			01019005010	
	12					500	3.000	6,0 - 8,0			01019005012	
	14					250	2.000	8,0 - 10,0			01019005014	
	16					250	2.000	10,0 - 12,0			01019005016	
	18					250	1.500	12,0 - 14,0			01019005018	
	20					250	1.500	14,0 - 16,0			01019005020	
	25					200	1.200	16,0 - 21,0			01019005025	
	30					200	1.200	21,0 - 25,0			01019005030	
	35					150	900	27,0 - 30,0			01019005035	
	40					150	900	30,0 - 35,0			01019005040	
	45					100	600	35,0 - 40,0			01019005045	
6,0	8	6,10	12,00	1,80	3,20	250	1.500	2,0 - 3,0	3.200	4.600	01019006008	
	10					250	1.500	3,0 - 5,0			01019006010	
	12					250	1.500	5,0 - 7,0			01019006012	
	14					250	1.500	7,0 - 9,0			01019006014	
	16					250	1.500	9,0 - 11,0			01019006016	
	18					200	1.200	11,0 - 13,0			01019006018	
	20					200	1.200	13,0 - 15,0			01019006020	
	25					200	1.200	15,0 - 20,0			01019006025	
	30					150	900	20,0 - 25,0			01019006030	
	35					150	900	25,0 - 30,0			01019006035	

Tests according to EN ISO 14589

Black prices: Pieces available for immediate delivery.

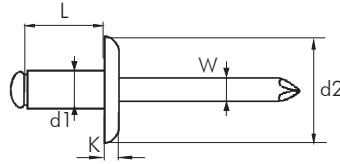
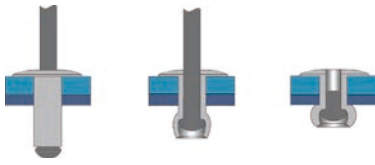
Red prices: Under request, consult minimum quantity.







Note: Under request, lacquered and anodized rivets are made.  
Consult minimum quantity and colour according to RAL.

STANDARD RIVET  
Large head

## ALUMINIUM/STAINLESS STEEL A2

- BODY: Aluminium Al Mg 3,5
- MANDREL: Stainless steel AISI 304



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 MIN. mm MAX	 (N)	 (N)	REFERENCE			
						 Inner	 Outer							
<b>4,0</b>	<b>8</b>	4,10	<b>12,00</b>	1,40	2,20	500	3.000	3,0 - 5,0	1.250	1.800	01049004008			
	10					500	3.000	5,0 - 6,5				01049004010		
	12					250	2.000	6,5 - 8,5				01049004012		
	14					250	2.000	8,5 - 10,5				01049004014		
	16					250	2.000	10,5 - 12,5				01049004016		
	18					250	2.000	12,5 - 14,5				01049004018		
	20					250	2.000	14,5 - 16,5				01049004020		
<b>4,8</b>	<b>21</b>	4,90	<b>11,00</b>	1,60	2,65	250	1.500	14,0 - 17,0	1.850	2.600	01038004821			
<b>4,8</b>	<b>10</b>					250	1.500	4,5 - 6,0				1.850	2.600	01039004810
	12					250	1.500	6,0 - 8,0						01039004812
	14					250	1.500	8,0 - 10,0						01039004814
	16					250	1.500	10,0 - 12,0						01039004816
	18					200	1.200	12,0 - 14,0						01039004818
	21					200	1.200	14,0 - 17,0						01039004821
24	150	900	17,0 - 20,0	01039004824										
27	150	900	20,0 - 23,0	01039004827										
30	150	900	23,0 - 25,0	01039004830										
35	100	600	25,0 - 30,0	01039004835										
<b>4,8</b>	<b>10</b>	4,9	<b>16,00</b>	1,80	2,65	250	1.500	4,5 - 6,0	1.850	2.600	01049004810			
	12					250	1.500	6,0 - 8,0				01049004812		
	14					200	1.200	8,0 - 10,0				01049004814		
	16					200	1.200	10,0 - 12,0				01049004816		
	18					150	900	12,0 - 14,0				01049004818		
	21					150	900	14,0 - 17,0				01049004821		
	24					150	900	17,0 - 20,0				01049004824		
	27					150	900	20,0 - 23,0				01049004827		
	30					100	600	23,0 - 25,0				01049004830		
	35					100	600	25,0 - 30,0				01049004835		
	<b>5,0</b>					<b>10</b>	5,10	<b>11,00</b>				1,60	2,65	250
12		250	2.000	6,0 - 8,0	01038005012									
14		250	1.500	8,0 - 10,0	01038005014									
16		250	1.500	10,0 - 12,0	01038005016									
18		250	1.500	12,0 - 14,0	01038005018									
20		250	1.500	14,0 - 16,0	01038005020									
25		250	1.500	16,0 - 21,0	01038005025									
30		200	1.200	21,0 - 25,0	01038005030									
<b>5,0</b>	<b>8</b>	5,10	<b>14,00</b>	1,80	2,65	250	2.000	3,0 - 4,5	2.150	3.100	01039005008			
	10					250	1.500	4,5 - 6,0				01039005010		
	12					250	1.500	6,0 - 8,0				01039005012		
	14					250	1.500	8,0 - 10,0				01039005014		
	16					250	1.500	10,0 - 12,0				01039005016		
	18					200	1.200	12,0 - 14,0				01039005018		
	20					200	1.200	14,0 - 16,0				01039005020		
	25					150	900	16,0 - 21,0				01039005025		
	30					150	900	21,0 - 25,0				01039005030		

Tests according to EN ISO 14589



Black prices: Pieces available for immediate delivery.

Red prices: Under request, consult minimum quantity.

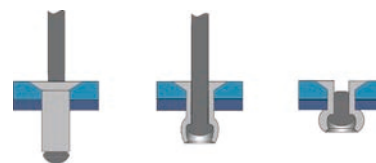
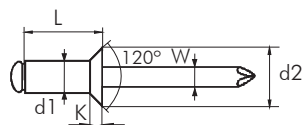
Note: Under request, lacquered and anodized rivets are made. Consult minimum quantity and colour according to RAL.





## ALUMINIUM/STAINLESS STEEL A2

STANDARD RIVET  
Countersunk head 120°

■ BODY: Aluminium Al Mg 3,5

■ MANDREL: Stainless steel AISI 304



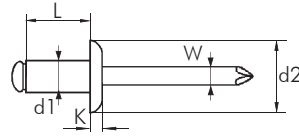
d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MAX	 (N)	 (N)	REFERENCE
						Inner	Outer				
<b>4,0</b>	<b>8</b>	4,10	7,80	1,40	2,20	500	4.000	3,0 - 5,0	1.250	1.800	01029004008
	<b>10</b>					500	4.000	5,0 - 6,5			01029004010
	<b>12</b>					500	3.000	6,5 - 8,5			01029004012
	<b>16</b>					500	3.000	10,5 - 12,5			01029004016
	<b>18</b>					500	3.000	12,5 - 14,5			01029004018
<b>4,8</b>	<b>12</b>	4,90	9,50	1,80	2,65	500	3.000	6,0 - 8,0	1.850	2.600	01029004812





STANDARD RIVET  
Dome head

ALUMINIUM/ALUMINIUM



- BODY: Aluminium Al Mg Si
- MANDREL: Aluminium



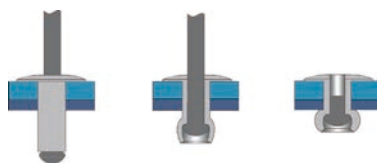
d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING					REFERENCE
						Inner	Outer				
3,2	6	3,30	6,50	0,80	1,95	500	4.000	1,5 - 3,5	450	550	01160003206
	8					500	4.000	3,5 - 5,0			01160003208
	10					500	4.000	5,0 - 7,0			01160003210
	12					500	4.000	7,0 - 9,0			01160003212
	15					500	4.000	9,0 - 12,0			01160003215
	18					500	3.000	12,0 - 15,0			01160003218
4,0	6	4,10	8,00	1,20	2,45	500	4.000	1,0 - 3,0	650	800	01160004006
	8					500	4.000	3,0 - 5,0			01160004008
	10					500	4.000	5,0 - 6,5			01160004010
	12					500	3.000	6,5 - 8,5			01160004012
	14					500	3.000	8,5 - 10,5			01160004014
	16					500	3.000	10,5 - 12,5			01160004016
	18					500	3.000	12,5 - 14,5			01160004018
	20					500	3.000	14,5 - 16,5			01160004020
4,8	6	4,90	9,50	1,50	2,95	500	3.000	0,5 - 3,0	950	1.200	01160004806
	8					500	3.000	2,5 - 4,0			01160004808
	10					500	3.000	4,0 - 6,0			01160004810
	12					500	3.000	6,0 - 8,0			01160004812
	14					250	2.000	8,0 - 10,0			01160004814
	16					250	2.000	10,0 - 12,0			01160004816
	18					250	1.500	12,0 - 14,0			01160004818
	21					250	1.500	14,0 - 17,0			01160004821
	24					200	1.200	17,0 - 20,0			01160004824
	27					200	1.200	20,0 - 23,0			01160004827
	35					150	900	27,0 - 30,0			01160004835
	50					100	600	40,0 - 45,0			01160004850

Tests according to EN ISO 14589

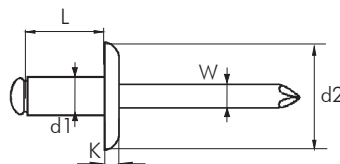
Note: Under request we do manufacture blind rivets aluminium/aluminium with countersunk head (d2).  
Ask for price, minimum quantities and delivery.





STANDARD RIVET  
Large head

ALUMINIUM/ALUMINIUM



- BODY: Aluminium Al Mg Si
- MANDREL: Aluminium



d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING					REFERENCE
						Inner	Outer				
4,8	10	4,90	14,00	1,80	2,95	250	1.500	4,0 - 6,0	950	1.200	01180004810
	12					250	1.500	6,0 - 8,0			01180004812
	14					250	1.500	8,0 - 10,0			01180004814
	16					250	1.500	10,0 - 12,0			01180004816
	18					200	1.200	12,0 - 14,0			01180004818
	21					200	1.200	14,0 - 17,0			01180004821
24					150	900	17,0 - 20,0			01180004824	
4,8	10	4,90	16,00	2,00	2,95		1.500	4,0 - 6,0	1.000	1.300	G1184004810
	14						1.500	8,0 - 10,0			G1184004814

Tests according to EN ISO 14589

# MULTIGRIP RIVETS

Pressing for better filling of the drill hole

Double crimp for better folding



## MULTI-THICKNESS RIVETS

VERSAGRIP, MULTIGRIP and HARDLOCK rivets are multi-thickness.

This offers the possibility of working with a wide variety of thicknesses. Only two sizes cover a thickness range of 1 to 16 mm, thereby reducing rivet inventory.

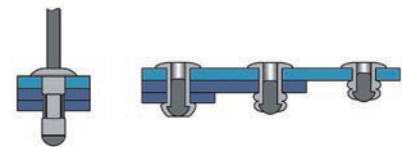
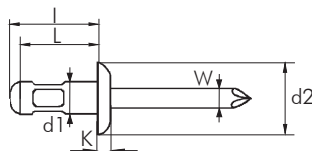
They have a good drill-hole fill, which allows them to deal with unequal, unaligned, oversized, and slotted drills.







They are perfect for working with thin metal sheets, being used as repair rivets.

## ALUMINIUM/STEEL

### MULTIGRIP RIVET Dome head

- BODY: Aluminium Al Mg 2,5
- MANDREL: Steel Zincplated A1K



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	 E MIN, mm MÁX		 (N)	 (N)	REFERENCE		
						 Inner	 Outer								
3,2	8,0	3,30-3,40	6,50	1,10	1,80	500	4.000	10,4	0,5	- 5,0	630	980	01080003208		
	9,5					500	4.000		11,6	1,5				- 6,5	01080003209
	11,0					500	4.000		13,1	4,0				- 8,0	01080003211
4,0	6,8	4,10-4,20	8,20	1,40	2,20	500	4.000	10,0	0,5	- 3,5	1050	1400	01080004068		
	7,5					500	4.000		10,5	1,0				- 4,5	01080004008
	9,5					500	3.000		12,0	1,0				- 6,0	01080004009
	11,0					500	3.000		14,0	2,0				- 7,0	01080004011
	12,5					500	3.000		15,0	4,0				- 9,0	01080004012
	16,5					500	3.000		19,0	6,0				- 13,0	01080004016
4,8	10,5	4,90-5,00	9,90	1,60	2,75	250	2.000	14,0	1,5	- 6,5	1500	2300	01080004810		
	15,0					250	2.000		18,0	4,5				- 11,0	01080004815
	16,5					250	1.500		20,0	6,5				- 12,5	01080004816
	19,5					250	1.500		23,0	8,5				- 15,5	01080004819
	24,5					200	1.200		28,0	12,5				- 20,0	01080004824

Tests according to EN ISO 14589

Note: Under request, lacquered and anodized rivets are made. Consult minimum quantity and colour according to RAL.

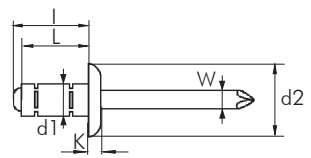
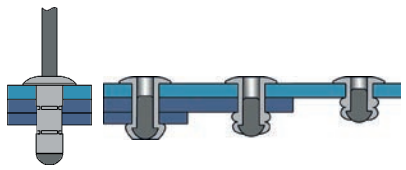











VERSAGRIP RIVET  
Dome head

ALUMINIUM/STEEL

- BODY: Aluminium Al Mg 2,5
- MANDREL: Steel Zincplated A1K



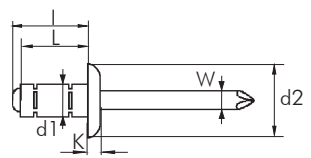
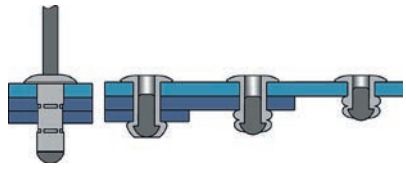
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E MIN. mm MÁX		 (N)	 (N)	REFERENCE
						 Inner	 Outer						
4,0	10,5	4,10	8,00	1,40	2,20	3.000	13,5	3,0	-	5,5	1060	1680	G108A004010
	13,5					5.000	15,5	3,5	-	9,5			G108A004013
4,8	10,2	4,90	9,00	1,40	2,65	2.500	13,5	0,5	-	6,5	1500	2400	G108A004810
	12,5					2.000	15,8	2,5	-	8,5			G108A004812
	15,5					2.000	18,8	4,5	-	11,0			G108A004815
	17,5					2.000	21,0	6,5	-	13,0			G108A004817
	19,5					1.500	23,0	8,5	-	15,5			G108A004819
	20,5					1.500							G108A004820
25,0	1.500							G108A004825					








Tests according to EN ISO 14589

MULTIGRIP RIVET  
Dome head

ALUMINIUM/STEEL

- BODY: Aluminium Al Mg 2,5
- MANDREL: Steel Zincplated A1K



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E MIN. mm MÁX		 (N)	 (N)	REFERENCE	
						 Inner	 Outer							
6,4	12,5	6,5	13,00	1,80	3,60	250	1.500	17,0	1,0	-	6,0	2800	4000	01080006412
	15,5					200	1.200	20,0	4,0	-	9,0			01080006415
	18,5					200	1.200	23,0	6,0	-	12,0			01080006418

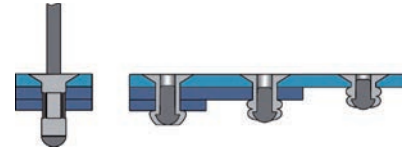
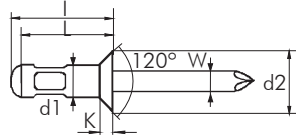
Tests according to EN ISO 14589







Black prices: Pieces available for immediate delivery.  
Red prices: Under request, consult minimum quantity.

## ALUMINIUM/STEEL

MULTIGRIP RIVET  
Countersunk head 120°

- BODY: Aluminium Al Mg 2,5
- MANDREL: Steel Zincplated A1K



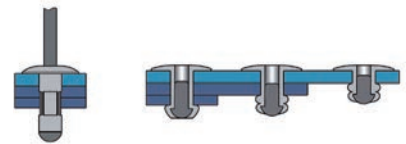
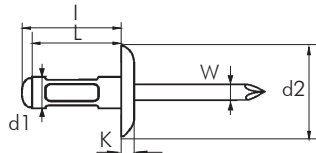
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	 MIN. mm MÁX	 (N)	 (N)	REFERENCE
						 Inner	 Outer					
3,2	9,5	3,30-3,40	6,00	1,10	1,80	500	4.000	12,0	1,5 - 6,0	630	980	01090003209
4,0	11,0	4,10-4,20	7,50	1,10	2,20	500	3.000	14,0	2,0 - 8,0	1050	1400	01090004011
4,8	12,0	4,90-5,00	9,50	1,60	2,75	250	2.000	16,0	2,0 - 7,5	1500	2400	01090004812
	16,5					250	1.500	20,0	6,0 - 12,0			01090004816







Tests according to EN ISO 14589

## ALUMINIUM/STEEL

MULTIGRIP RIVET  
Large head

- BODY: Aluminium Al Mg 2,5
- MANDREL: Steel Zincplated A1K



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	 MIN. mm MÁX	 (N)	 (N)	REFERENCE
						 Inner	 Outer					
3,2	8,0	3,30-3,40	9,50	1,10	1,80	500	4.000	10,1	0,5 - 5,0	630	980	01100003208
4,0	13,0	4,10-4,20	12,00	1,60	2,20	250	2.000	15,5	3,0 - 9,0	1050	1500	01100004013
	16,0					250	2.000	18,8	6,0 - 13,0			01100004016
4,8	10,5	4,90-5,00	16,00	1,80	2,75	150	900	14,0	1,5 - 6,0	1500	2400	01100004810
	17,0					150	900	20,0	6,5 - 12,5			01100004817
	25,0					100	600	28,0	12,0 - 19,5			01100004825

Tests according to EN ISO 14589

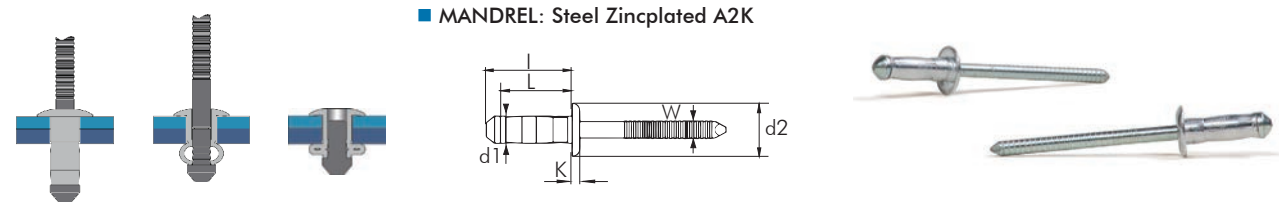



Note: Under request, lacquered and anodized rivets are made. Consult minimum quantity and colour according to RAL.

**HARDLOCK RIVET**  
Dome head

**ALUMINIUM/STEEL**

- BODY: Aluminium EN AW 5052
- MANDREL: Steel Zincplated A2K



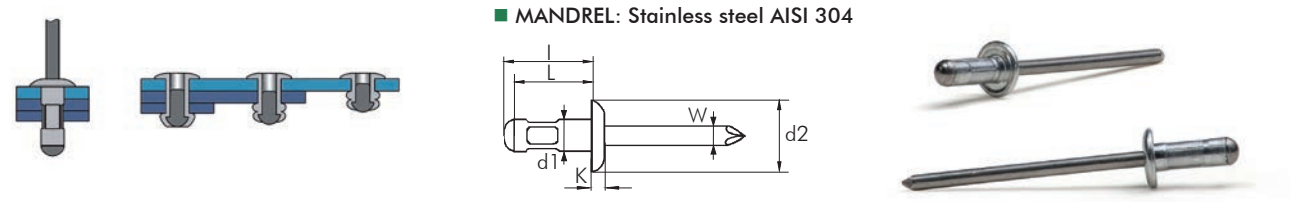
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E MIN. mm MÁX		(N)	(N)	REFERENCE
						Inner	Outer						
4,8	10,8	4,9-5,1	9,5	1,40	2,80	2.500	13,70	1,0	-	6,0	1200	1900	G1811004811
	16,8									6,0			-


- Especially indicated for applications of union of plastic and metal.
- Wide range of thickness to be riveted.
- High tensile strength thanks to its back bulb.
- Optimal distribution of tightening in the blind face thanks to its larger contact area.
- Optimum retention of the mandrel.
- Grooved mandrel for longer life of the jaws.

**MULTIGRIP RIVET**  
Dome head

**ALUMINIUM/STAINLESS STEEL A2**

- BODY: Aluminium Al Mg 2,5
- MANDREL: Stainless steel AISI 304



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E MIN. mm MÁX		(N)	(N)	REFERENCE	
						Inner	Outer							
3,2	8,0	3,30-3,40	6,50	1,10	1,80	500	4.000	10,00	0,5	-	5,0	650	1000	01089003208
	11,0					500	4.000	13,00	4,0	-	8,0	01089003211		
4,0	6,8	4,10-4,20	8,20	1,40	2,20	500	4.000	10,00	0,5	-	3,5	1050	1500	010890040068
	9,5					500	3.000	12,00	1,0	-	6,0	01089004009		
	12,5					500	3.000	15,00	4,0	-	9,0	01089004012		
	16,5					500	3.000	19,00	6,0	-	13,0	01089004016		
4,8	10,0	4,90-5,00	9,90	1,80	2,75	250	2.000	14,00	1,5	-	6,5	1500	2300	01089004810
	15,0					250	2.000	18,00	4,5	-	11,0	01089004815		
	16,5					250	1.500	20,00	6,5	-	13,0	01089004816		
	19,0					250	1.500	23,00	8,5	-	15,5	01089004819		
	24,0					200	1.200	28,00	12,5	-	20,0	01089004824		

Tests according to EN ISO 14589

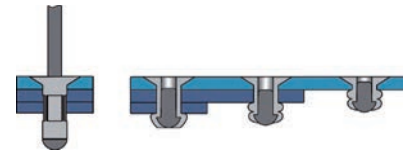
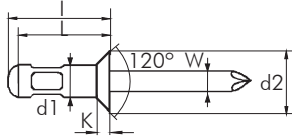





**Note:** Under request, lacquered and anodized rivets are made. Consult minimum quantity and colour according to RAL.  
 Black prices: Pieces available for immediate delivery.  
 Red prices: Under request, consult minimum quantity.

## ALUMINIUM/STAINLESS STEEL A2

MULTIGRIP RIVET  
Countersunk head 120°

- BODY: Aluminium Al Mg 2,5
- MANDREL: Stainless steel AISI 304



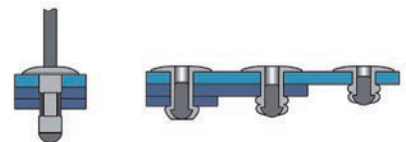
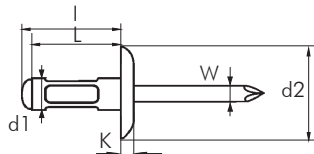
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E		 (N)	 (N)	REFERENCE
						Inner	Outer		MIN. mm	MÁX			
3,2	9,5	3,30-3,40	6,00	1,00	1,80	500	4.000	12,0	1,5	- 6,0	630	980	01099003209
4,0	11,0	4,10-4,20	7,50	1,10	2,20	500	3.000	14,0	2,0	- 8,0	1050	1400	01099004011
4,8	12,0	4,90-5,10	9,50	1,60	2,75	250	2.000	16,0	2,0	- 7,5	1500	2400	01099004812
	16,5					250	1.500	20,0	6,0	- 12,0			01099004816




Tests according to EN ISO 14589

## ALUMINIUM/STAINLESS STEEL A2

MULTIGRIP RIVET  
Large head

- BODY: Aluminium Al Mg 2,5
- MANDREL: Stainless steel AISI 304



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E		 (N)	 (N)	REFERENCE
						Inner	Outer		MIN. mm	MÁX			
4,0	13,0	4,10-4,30	12,00	1,60	2,20	250	2.000	15,5	3,0	- 9,0	1500	2400	01109004013
4,8	10,5	4,90-5,00	16,00	1,80	2,75	200	1.200	14,0	1,5	- 6,0	1500	2400	01109004810
	17,0					150	900	20,0	6,0	- 12,5			01109004817
	19,0					150	900	22,0	8,5	- 14,5			01109004819
	25,0					100	600	28,0	12,5	- 19,5			01109004825

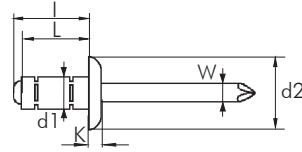
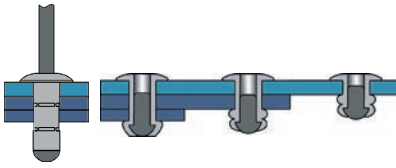
Tests according to EN ISO 14589




Black prices: Pieces available for immediate delivery.  
Red prices: Under request, consult minimum quantity.

**VERSAGRIP RIVET**  
Dome head

**ALUMINIUM/STAINLESS STEEL A2**

- BODY: Aluminium Al Mg 2,5
- MANDREL: Stainless steel 304

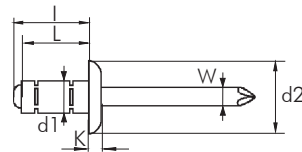
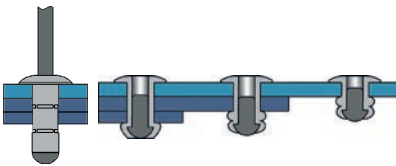





d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E		 (N)	 (N)	REFERENCE
						Inner	Outer		MIN. mm	MÁX			
4,8	10	4,90	9,50	1,40	2,75	3.000	16,5	0,5	-	6,5	1500	2400	G108I004810
	15							4,5	-	11,0			G108I004815
	16,5							4,5	-	12,0			G108I004816
	25							11,0	-	19,5			G108I004825
	30							15,0	-	24,0			G108I004830

**MULTIGRIP RIVET**  
Dome head

**ALUMINIUM/STAINLESS STEEL A2**

- BODY: Aluminium Al Mg 2,5
- MANDREL: Stainless steel AISI 304



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E		 (N)	 (N)	REFERENCE	
						Inner	Outer		MIN. mm	MÁX				
6,4	12,5	6,50-6,70	13,00	1,80	3,60	250	2.000	17,00	1,0	-	6,0	2800	4000	01089006412
	15,5								4,0	-	9,0			01089006415
	20,5								8,0	-	14,0			01089006420
	25,5								9,0	-	19,0			01089006425

# GROOVED RIVET

## DOES NOT NEED THROUGH HOLES

This fastener does not need through holes.

Safe method of joining metal to smooth and fibrous surfaces.

Provides a high resistance joint.

Ideal to fasten metal surfaces to wood, brick or cement.

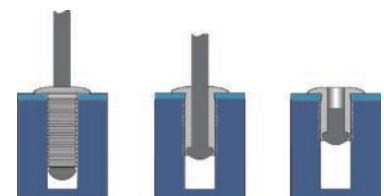
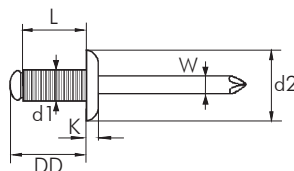








## ALUMINIUM/STEEL

### GROOVED RIVET Dome head



- BODY: Aluminium Al Mg 3,5
- MANDREL: Steel Zincplated A1K



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MÁX	 (N)	 (N)	REFERENCE	DD (Drill depth) mm
						 Inner	 Outer					
<b>3,2</b>	<b>10</b>	3,40	6,50	0,80	1,80	500	4.000	6,0	700	1100	01700003210	13
<b>4,0</b>	<b>8</b>	4,20	8,00	1,20	2,20	500	4.000	4,0	900	1.400	01700004008	11
	<b>12</b>					500	3.000	6,0			01700004012	15
	<b>16</b>					500	3.000	8,0			01700004016	19
<b>4,8</b>	<b>8</b>	4,90	9,50	1,40	2,65	500	3.000	4,0	1.600	2600	01700004808	11
	<b>10</b>					250	2.000	6,0			01700004810	13
	<b>12</b>					250	2.000	8,0			01700004812	15
	<b>14</b>					250	2.000	10,0			01700004814	17
	<b>16</b>					250	1.500	12,0			01700004816	19
	<b>18</b>					250	1.500	13,0			01700004818	21
	<b>21</b>					250	1.500	15,0			01700004821	24
	<b>24</b>					200	1.200	20,0			01700004824	27

Tests according to EN ISO 14589

Black prices: Pieces available for immediate delivery.  
Red prices: Under request, consult minimum quantity.

# SOFT MATERIALS RIVETS

## IDEAL FOR FASTENING SOFT OR BRITTLE MATERIALS



It does not deform surfaces after the riveting process is finished.

They provide excellent torque values.

Good resistance to vibrations.

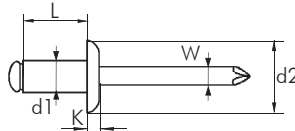
### SOFT MATERIALS RIVETS Dome head



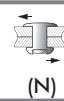



### ALUMINIUM/STEEL



■ BODY: Aluminium Al Mg 3,5

■ MANDREL: Steel Zincoated A1K



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MAX	 (N)	 (N)	REFERENCE
						 Inner	 Outer				
<b>3,0</b>	<b>6</b>	3,10	6,30	0,80	1,80	4.000	4.000	1,5 - 3,5	750	850	G1350003006
<b>4,0</b>	<b>6</b>	4,10	8,00	1,40	2,20	4.000	4.000	1,5 - 3,0	1200	1.800	G1350004006
	<b>8</b>					4.000	4.000	3,0 - 5,0			G1350004008
	<b>10</b>					4.000	4.000	5,0 - 6,5			G1350004010
	<b>12</b>					4.000	4.000	6,5 - 8,5			G1350004012
	<b>14</b>					4.000	4.000	8,5 - 10,5			G1350004014
	<b>16</b>					4.000	4.000	10,5 - 12,5			G1350004016
	<b>18</b>					4.000	4.000	12,5 - 14,5			G1350004018
	<b>20</b>					4.000	4.000	14,5 - 16,5			G1350004020
<b>4,8</b>	<b>6</b>	4,90	9,50	1,40	2,73	4.000	4.000	0,5 - 3,0	2000	2700	G1350004806
	<b>8</b>					3.500	3.500	3,0 - 4,5			G1350004808
	<b>10</b>					3.500	3.500	4,5 - 6,0			G1350004810
	<b>12</b>					3.000	3.000	6,0 - 8,0			G1350004812
	<b>14</b>					2.500	2.500	8,0 - 10,0			G1350004814
	<b>16</b>					2.500	2.500	10,0 - 12,0			G1350004816
	<b>18</b>					2.000	2.000	12,0 - 14,0			G1350004818
	<b>21</b>					2.000	2.000	14,0 - 17,0			G1350004821
	<b>24</b>					1.500	1.500	17,0 - 20,0			G1350004824
	<b>27</b>					1.500	1.500	20,0 - 23,0			G1350004827
	<b>30</b>					1.500	1.500	23,0 - 25,0			G1350004830
	<b>32</b>					1.000	1.000	25,0 - 27,0			G1350004832
	<b>35</b>					1.000	1.000	25,0 - 30,0			G1350004835
<b>5,0</b>	<b>10</b>	5,10	9,50	1,40	2,73	4.000	4.000	4,5 - 6,0	2250	3000	G1350005010
	<b>14</b>					3.000	3.000	8,0 - 10,0			G1350005014
	<b>16</b>					2.500	2.500	10,0 - 12,0			G1350005016
	<b>18</b>					2.000	2.000	12,0 - 14,0			G1350005018
	<b>20</b>					2.000	2.000	14,0 - 16,0			G1350005020
	<b>25</b>					1.500	1.500	16,0 - 21,0			G1350005025
	<b>30</b>					1.500	1.500	21,0 - 25,0			G1350005030
<b>6,0</b>	<b>18</b>	6,10	12,00	1,50	3,20	1.500	1.500	11,0 - 13,0	2500	3300	G1350006018

Tests according to EN ISO 14589

Black prices: Pieces available for immediate delivery.  
Red prices: Under request, consult minimum quantity.

# PEELED RIVET

## CREATES A LOCKING HEAD WITH A BIG DIAMETER

Ideal for the use in applications with soft or low resistance materials.  
 Allows for use in oversized holes.  
 Spreads the load and clamping force over a wide area.



### LOCKING DIVIDED IN FOUR PETALS

Aluminium alloy break-mandrel blind rivet with a large bearing area and on placement the body splits into four petals. BRALO peel rivet is ideal for applications with plastics or materials with low resistance to pressure.

BRALO peel rivet is available in a vast array of colours and in any kind of material. From black to white, we have a range of over 100 RAL colours and we can make special lacquering upon request.

### COLOURS IN STOCK



d1 mm	L Nominal mm	BLACK PAINTED REFERENCE	PACKAGING	
			Inner	Outer
<b>4,0</b>	<b>8</b>	01130N04008	500	4.000
	<b>10</b>	01130N04010	500	4.000
	<b>12</b>	01130N04012	500	3.000
	<b>14</b>	01130N04014	500	3.000
	<b>16</b>	01130N04016	500	3.000
	<b>18</b>	01130N04018	500	3.000
	<b>20</b>	01130N04020	500	3.000
<b>25</b>	01130N04025	250	1.500	
<b>4,8</b>	<b>10</b>	01130N04810	500	3.000
	<b>12</b>	01130N04812	500	3.000
	<b>14</b>	01130N04814	250	2.000
	<b>16</b>	01130N04816	250	2.000
	<b>18</b>	01130N04818	250	1.500
	<b>21</b>	01130N04821	250	1.500
	<b>24</b>	01130N04824	200	1.200
	<b>27</b>	01130N04827	200	1.200
	<b>30</b>	01130N04830	200	1.200



Note: Under request, lacquered and anodized rivets are made. Consult minimum quantity and colour according to RAL.

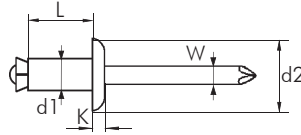
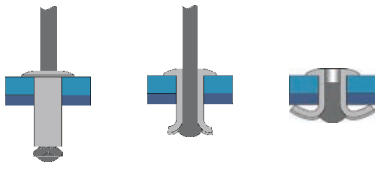








# PEELED RIVET

## Dome head

# ALUMINIUM/STEEL

- BODY: Aluminium Al Mg 3,5
- MANDREL: Steel Zincplated A1K



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 mm <sub>MÁX</sub>	 (N)	 (N)	REFERENCE
						 Inner	 Outer				
<b>3,2</b>	<b>8</b>	3,40	6,50	0,80	1,80	500	4.000	3,5	1000	1200	01130003208
	<b>10</b>					500	4.000	5,0			01130003210
	<b>12</b>					500	4.000	7,0			01130003212
	<b>14</b>					500	4.000	9,0			01130003214
	<b>16</b>					500	3.000	11,0			01130003216
	<b>18</b>					500	3.000	13,0			01130003218
<b>4,0</b>	<b>08</b>	4,20	8,00	1,00	2,20	500	4.000	4,0	1200	1400	01130004008
	<b>10</b>					500	4.000	6,0			01130004010
	<b>12</b>					500	3.000	8,0			01130004012
	<b>14</b>					500	3.000	10,0			01130004014
	<b>16</b>					500	3.000	12,0			01130004016
	<b>18</b>					500	3.000	14,0			01130004018
	<b>20</b>					500	3.000	16,0			01130004020
	<b>25</b>					250	1.500	21,0			01130004025
<b>4,8</b>	<b>10</b>	5,00	9,50	1,10	2,73	500	3.000	5,0	1800	2000	01130004810
	<b>12</b>					500	3.000	7,0			01130004812
	<b>14</b>					250	2.000	9,0			01130004814
	<b>16</b>					250	2.000	11,0			01130004816
	<b>18</b>					250	1.500	13,0			01130004818
	<b>21</b>					250	1.500	16,0			01130004821
	<b>24</b>					200	1.200	19,0			01130004824
	<b>27</b>					200	1.200	22,0			01130004827
	<b>30</b>					200	1.200	25,0			01130004830
	<b>32</b>					200	1.200	27,0			01130004832
	<b>35</b>					200	1.200	30,0			011300048352
	<b>40</b>					150	900	32,0			01130004840
	<b>45</b>					100	600	37,0			01130004845
	<b>50</b>					100	600	42,0			01130004850
<b>5,0</b>	<b>40</b>	5,20	9,50	1,50	2,73	150	900	32,0	2000	2100	01130005040
	<b>45</b>					100	600	37,0			01130005045
	<b>50</b>					100	600	42,0			01130005050
	<b>55</b>					100	600	47,0			01130005055
	<b>60</b>						500	52,0			G1130005060
	<b>65</b>						500	57,0			G1130005065
	<b>70</b>						500	62,0			G1130005070
	<b>75</b>						500	68,0			G1130005075
	<b>80</b>						500	72,0			G1130005080
	<b>90</b>						500	80,0			G1130005090
	<b>100</b>						500	90,0			G11300050100
	<b>110</b>						500	100,0			G11300050110
	<b>120</b>						500	110,0			G11300050120
	<b>130</b>						250	120,0			G11300050130
	<b>140</b>						250	130,0			G11300050140
	<b>150</b>						250	140,0			G11300050150
	<b>160</b>						250	150,0			G11300050160
	<b>170</b>						250	160,0			G11300050170
	<b>180</b>						250	170,0			G11300050180
	<b>190</b>						250	180,0			G11300050190
<b>6,4*</b>	<b>35</b>	6,60	12,00	1,80	3,50	100	600	25,0	2450	3500	01130006435
	<b>50</b>						500	40,0			G1130006450
	<b>80</b>						250	70,0			G1130006480
	<b>100</b>						250	90,0			G11300064100
	<b>120</b>						250	110,0			G11300064120
	<b>150</b>						250	140,0			G11300064150
	<b>175</b>						200	165,0			G11300064175
	<b>190</b>						200	180,0			G11300064200

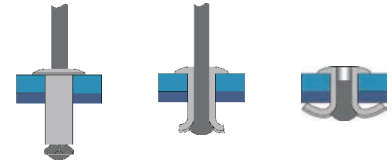
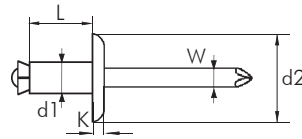
Tests according to EN ISO 14589







\*Note: Peeled rivets with aluminium body Al Mg 3.

## ALUMINIUM/STEEL

PEELED RIVET  
Large head

- BODY: Aluminium Al Mg 3,5
- MANDREL: Steel Zincplated A1K





d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		 E mm <sub>MÁX</sub>	 (N)	 (N)	REFERENCE	
						 Inner	 Outer					
<b>4,0</b>	<b>8</b>	4,20	<b>12,00</b>	1,40	2,20	500	3.000	4,0	1200	1900	01150004008	
	<b>10</b>					500	3.000				6,0	01150004010
	<b>12</b>					250	2.000				8,0	01150004012
	<b>14</b>					250	2.000				10,0	01150004014
	<b>16</b>					250	2.000				12,0	01150004016
	<b>18</b>					250	1.500				14,0	01150004018
	<b>20</b>					250	1.500				16,0	01150004020
<b>4,8</b>	<b>10</b>	5,00	<b>11,00</b>	1,80	2,73	250	2.000	5,0	1800	2000	01131004810	
	<b>21</b>					250	1.500				9,0	01131004821
<b>4,8</b>	<b>10</b>	5,00	<b>14,00</b>	1,80	2,73	250	1.500	5,0	1800	2000	01140004810	
	<b>12</b>					250	1.500				7,0	01140004812
	<b>14</b>					250	1.500				9,0	01140004814
	<b>16</b>					250	1.500				11,0	01140004816
	<b>18</b>					200	1.200				13,0	01140004818
	<b>21</b>					200	1.200				16,0	01140004821
	<b>24</b>					150	900				19,0	01140004824
	<b>27</b>					150	900				22,0	01140004827
	<b>30</b>					150	900				25,0	01140004830
	<b>35</b>					100	600				30,0	01140004835
<b>40</b>	100	600	35,0	01140004840								

Tests according to EN ISO 14589

## ALUMINIUM/STEEL

PEELED RIVET COLOR  
Large head

d1 mm	L Nominal mm	BLACK PAINTED REFERENCE	PACKAGING	
			 Inner	 Outer
<b>4,0</b>	<b>10</b>	01150N04010	500	3.000
	<b>12</b>	01150N04012	250	2.000
	<b>14</b>	01150N04014	250	2.000
	<b>16</b>	01150N04016	250	2.000
	<b>18</b>	01150N04018	250	1.500
	<b>20</b>	01150N04020	250	1.500
<b>4,8</b>	<b>10</b>	01140N04810	250	1.500
	<b>12</b>	01140N04812	250	1.500
	<b>14</b>	01140N04814	250	1.500
	<b>16</b>	01140N04816	250	1.500
	<b>18</b>	01140N04818	200	1.200
	<b>21</b>	01140N04821	200	1.200
	<b>27</b>	01140N04827	150	900

Note: Under request, lacquered and anodized rivets are made. Consult minimum quantity and colour according to RAL.

## MULTIGRIP FEATURES

High resistance to corrosion.  
Mandrel locking system.  
Designed to fasten of rigid materials  
to soft or low resistance materials.



### HEAD WITH SHAPE OF THREE PARTS

BRALO Trebol Rivet is a break-mandrel blind rivet designed for the fastening, in a fast and simple way, of rigid materials to soft or low resistance materials.

This rivet is provided with a big counter head in the shape of three double parts offering a large contact area on the blind side. This large expansion on the blind side distributes the load and the clamping force, reducing the risk of crushing and the material breaking.



The S-Trebol version provides additional resistance to both tensile and shear strengths and it can be used in oversized holes because its expansion is adaptable.

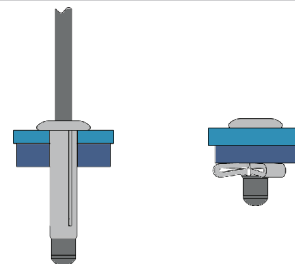
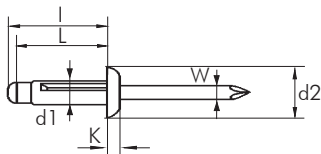
It also has a neoprene washer that provides excellent sealing results.








## ALUMINIUM/ALUMINIUM



TREBOL RIVET  
Dome head

- BODY: Aluminium
- MANDREL: Aluminium



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E		 (N)	 (N)	REFERENCE
						 Inner	 Outer		MIN. mm	MÁX			
4,0	10,5	4,20-4,50	8,00	1,40	2,40	250	2.000	12,30	0,5	- 2,5	730	950	01610004010
	13,6					250	2.000	16,00	1,0	- 3,0	01610004013		
	18,8					250	2.000	21,20	1,0	- 7,0	01610004018		
	20,4					250	1.500	22,80	1,0	- 8,5	01610004020		
	24,5					250	1.500	26,90	4,0	- 12,0	01610004024		
4,8	15,3	5,00-5,30	9,80	1,90	2,82	250	2.000	17,80	1,0	- 4,0	900	1150	01610004815
	20,5					250	1.500	23,00	1,0	- 9,0	01610004820		
	24,5					200	1.200	27,00	4,0	- 12,0	01610004824		
	28,5					200	1.200	30,50	6,0	- 16,0	01610004828		

Tests according to EN ISO 14589

d1 mm	L Nominal mm	BLACK PAINTED REFERENCE	WHITE PAINTED REFERENCE	PACKAGING	
				 Inner	 Outer
4,0	10,5	01610N04010	01610BL4010	250	2.000
	13,6	01610N04013	01610BL4013	250	2.000
	18,8	01610N04018	01610BL4018	250	2.000
	24,5	01610N04024	01610BL4024	250	1.500
4,8	15,3	01610N04815	01610BL4815	250	2.000
	20,5	01610N04820	01610BL4820	250	1.500
	24,5	01610N04824	01610BL4824	200	1.200

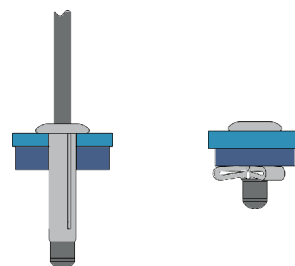
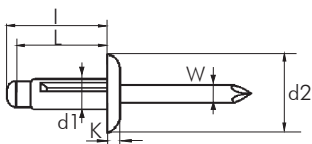







Note: Under request, lacquered rivets, anodized and organic coatings such as Delta-Seal, are made. Consult minimum quantity and colour according to RAL.

## ALUMINIUM/ALUMINIUM

TREBOL RIVET  
Large head

- BODY: Aluminium
- MANDREL: Aluminium

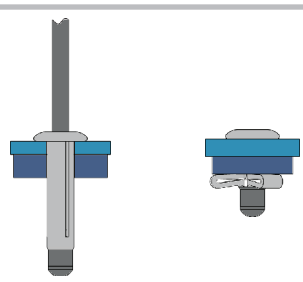


d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E		 (N)	 (N)	REFERENCE
						 Inner	 Outer		MIN. mm	MÁX			
4,0	18,8	4,20-4,50	12,00	1,50	2,40	250	1.500	20,60	1,0	- 7,0	700	850	01640004018
4,8	20,5	5,00-5,30	14,00	1,80	2,82	200	1.200	23,00	1,0	- 9,0	1000	1250	01630004820
	24,5					200	1.200	27,00	4,0	- 12,0	01630004824		
	28,5					150	900	31,00	6,0	- 16,0	01630004828		
4,8	20,5	5,00-5,30	16,00	1,80	2,82	1.000	1.000	23,00	1,0	- 9,0	1000	1250	G1640004820
	24,5					1.000	1.000	27,00	4,0	- 12,0	G1640004824		

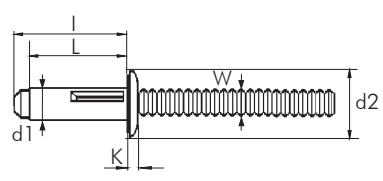
Tests according to EN ISO 14589




S-TREBOL RIVETS  
Dome head

ALUMINIUM/ALUMINIUM



- BODY: Aluminium
- MANDREL: Aluminium



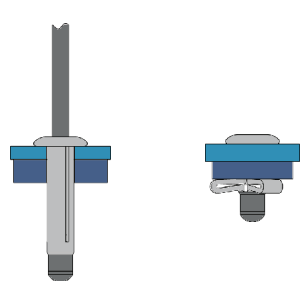
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E MIN. mm MÁX		 (N)	 (N)	REFERENCE
						Inner	Outer						
<b>5,2</b>	<b>17,0</b>	5,30-5,60	11,40	2,20	3,10	250	1.500	19,75	0,5	- 4,8	3000	1750	01650005217
	<b>20,5*</b>					250	1.500	23,75	0,5	- 5,1			01650005220
	<b>26,5</b>					200	1.200	29,75	4,5	- 11,5			01650005226
	<b>33,5</b>												01650005233
<b>6,4</b>	<b>23,5</b>	6,5-6,70	14,00	2,00	3,40	150	900	28,50	1,5	- 6,5	4000	2500	01650006424

Tests according to EN ISO 14589

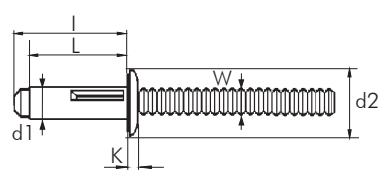
Note: Also available without neoprene washer. Please ask for price and minimum order quantity.




S-TREBOL RIVETS  
Dome head

ALUMINIUM/ALUMINIUM



- BODY: Aluminium
- MANDREL: Aluminium



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E MIN. mm MÁX		 (N)	 (N)	REFERENCE
						Inner	Outer						
<b>7,7</b>	<b>28,50</b>	7,90-8,30	19,00	4,00	4,40	500	35,00	1,5	- 9,5	4300	4800	G1654007828	
	<b>34,00</b>												

Also available without neoprene washer. Please ask for price and minimum order quantity.

Black prices: Pieces available for immediate delivery.  
Red prices: Under request, consult minimum quantity.

# SEALED RIVET

## MOISTURE AND PRESSURE TIGHT

The joints are completely water tight which avoids leakage of liquids or vapours.

Avoids electrical problems or vibrations.

The mandrel is completely locked within the head.



### SEALED LOCKING

BRALO Sealed Rivet is synonymous with safety and confidence.

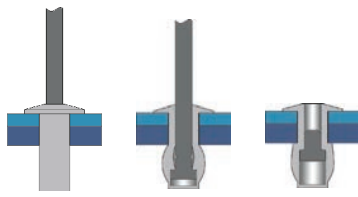
The sealed rivets are break mandrel blind rivets that guarantee a solid and high quality fastening. The joints are completely sealed to fluids, avoiding leakage of liquids or vapours due to the locking of the mandrel inside the rivet body.

BRALO Sealed Rivet is available in a wide range of diameters, from 3.2 mm to 6.4 mm, covering a wide grip range (0.5 mm to 20 mm).

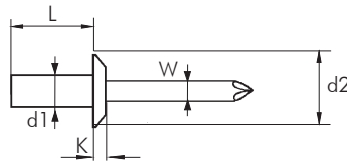
This rivet is available in a vast array of materials. BRALO can provide many finishing options from various colours to different protective coatings. The customization possibilities for this rivet are endless.

SEALED RIVET  
Dome head







ALUMINIUM/STEEL



- BODY: Aluminium Al Mg 3,5
- MANDREL: Steel lubricated



UNE - EN ISO 15973

d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MAX	 (N)	 (N)	REFERENCE	
						 Inner	 Outer					
<b>3,2</b>	<b>6,5</b>	<b>11,50</b>	3,30	6,40	1,00	1,65	500	4.000	0,5 - 2,0	1100	1450	01110003206
	<b>7,5</b>	<b>12,50</b>					500	4.000	0,5 - 3,2			01110003207
	<b>8,0</b>	<b>12,60</b>					500	4.000	2,0 - 3,5			01110003208
	<b>9,5</b>	<b>12,70</b>					500	4.000	3,5 - 5,0			01110003209
	<b>11,0</b>	<b>13,20</b>					500	4.000	5,0 - 6,5			01110003211
	<b>12,5</b>	<b>13,40</b>					500	4.000	6,5 - 8,0			01110003212
<b>4,0</b>	<b>8,5</b>	<b>13,50</b>	4,10	7,90	1,40	2,20	500	4.000	0,5 - 3,5	1600	2200	01110004008
	<b>9,5</b>	<b>13,90</b>					500	4.000	3,5 - 5,0			01110004010
	<b>11,0</b>	<b>14,20</b>					500	4.000	5,0 - 6,5			01110004011
	<b>12,5</b>	<b>14,50</b>					500	3.000	6,5 - 8,0			01110004013
	<b>14,5</b>	<b>15,20</b>					500	3.000	8,0 - 10,0			01110004015
	<b>4,8</b>	<b>8,5</b>					<b>15,60</b>	4,90	9,30			1,70
<b>9,5</b>		<b>16,30</b>	500	3.000	3,5 - 5,0	01110004810						
<b>11,0</b>		<b>17,60</b>	500	3.000	5,0 - 6,5	01110004811						
<b>13,0</b>		<b>18,50</b>	250	2.000	6,5 - 8,0	01110004813						
<b>14,5</b>		<b>18,70</b>	250	2.000	8,0 - 9,5	01110004814						
<b>16,0</b>		<b>20,60</b>	250	2.000	9,5 - 11,0	01110004816						
<b>18,0</b>		<b>21,40</b>	250	1.500	11,0 - 13,0	01110004818						
<b>21,0</b>		<b>23,90</b>	250	1.500	13,0 - 16,0	01110004821						
<b>25,0</b>		<b>26,20</b>	200	1.200	16,0 - 20,0	01110004825						
<b>6,4</b>	<b>12,5</b>	<b>35,20</b>	6,50	12,50	2,40	3,60	250	1.500	1,5 - 6,5	3600	4900	01110006412
	<b>15,5</b>	<b>38,10</b>					200	1.200	6,5 - 9,5			01110006415

Tests according to EN ISO 14589

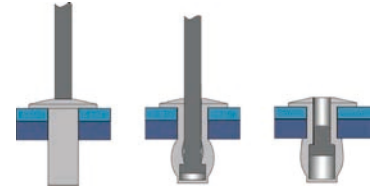
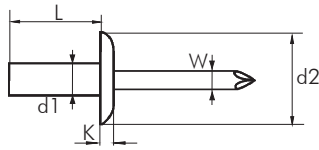






Note: Under request, lacquered and anodized rivets are made. Consult minimum quantity and colour according to RAL.

## ALUMINIUM/STEEL

SEALED RIVET  
Large head

- BODY: Aluminium Al Mg 5
- MANDREL: Steel lubricated



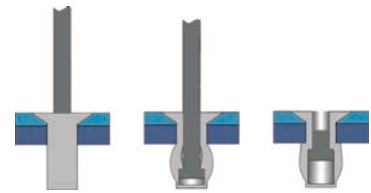
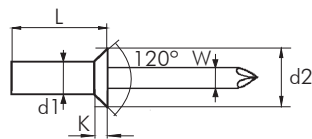
d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MAX	 (N)	 (N)	REFERENCE
						Inner	Outer				
4,8	13,0	4,90	14,00	1,80	2,65	250	1.500	6,5 - 8,0	2200	3100	01120004813
	18,0					200	1.200	11,0 - 13,0			01120004818

Tests according to EN ISO 14589





## ALUMINIUM/STEEL

SEALED RIVET  
Countersunk head 120°

- BODY: Aluminium Al Mg 5
- MANDREL: Steel lubricated



UNE - EN ISO 15974

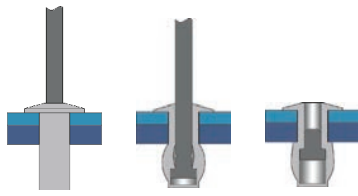
d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MAX	 (N)	 (N)	REFERENCE
						Inner	Outer				
4,0	14,5	4,10	7,60	1,70	2,20	500	3.000	8,0 - 10,0	1600	2200	01112004014
4,8	10,0	4,90	9,50	1,80	2,65	500	3.000	4,5 - 6,0	2200	3100	01112004810
	12,5					500	3.000	6,0 - 8,0			01112004813
	14,5					250	2.000	8,0 - 10,0			01112004814
	16,0					250	2.000	10,0 - 12,0			01112004816
22,0						250	1.500	13,0 - 18,0			01112004822

Tests according to EN ISO 14589

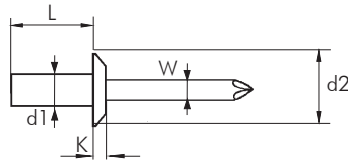








SEALED RIVET  
Dome head

ALUMINIUM/STAINLESS STEEL A2



- BODY: Aluminium Al Mg 5
- MANDREL: Stainless steel AISI 304

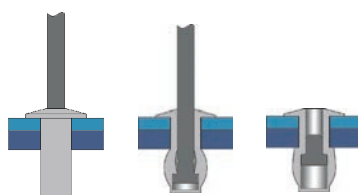


d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 MIN. mm MAX	 (N)	 (N)	REFERENCE	
						 Inner	 Outer					
<b>3,2</b>	<b>6,5</b>	3,30	6,40	1,00	1,65	500	4.000	0,5 - 2,0	1100	1450	01119003207	
	<b>8,0</b>					500	4.000	2,0 - 3,5				01119003208
	<b>9,5</b>					500	4.000	3,5 - 5,0				01119003209
	<b>12,0</b>					500	4.000	6,5 - 8,0				01119003212
<b>4,0</b>	<b>8,0</b>	4,10	7,90	1,40	2,20	500	4.000	0,5 - 3,5	1600	2200	01119004008	
	<b>10,0</b>					500	4.000	3,5 - 5,0				01119004010
	<b>11,0</b>					500	4.000	5,0 - 6,5				01119004011
	<b>12,5</b>					500	3.000	6,5 - 8,0				01119004013
<b>4,8</b>	<b>8,0</b>	4,90	9,30	1,70	2,65	500	3.000	0,5 - 3,5	2200	3100	01119004808	
	<b>9,5</b>					500	3.000	3,5 - 5,0				01119004810
	<b>11,0</b>					500	3.000	5,0 - 6,5				01119004811
	<b>13,0</b>					250	2.000	6,5 - 8,0				01119004813
	<b>14,5</b>					250	2.000	8,0 - 9,5				01119004814
	<b>16,0</b>					250	2.000	9,5 - 11,0				01119004816
	<b>18,0</b>					250	1.500	11,0 - 13,0				01119004818
	<b>21,0</b>					250	1.500	13,0 - 16,0				01119004821
	<b>25,0</b>					200	1.200	16,0 - 20,0				01119004825

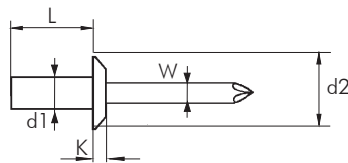
Tests according to EN ISO 14589

SEALED RIVET  
Dome head



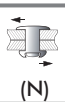



ALUMINIUM/ALUMINIUM



- BODY: Aluminium
- MANDREL: Aluminium



UNE - EN ISO 15975

d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 MIN. mm MAX	 (N)	 (N)	REFERENCE	
						 Inner	 Outer					
<b>3,2</b>	<b>8,0</b>	3,30	6,40	1,00	1,80	500	4.000	0,5 - 3,5	460	540	01190003208	
	<b>9,5</b>					500	4.000	3,5 - 5,0				01190003209
	<b>11,0</b>					500	4.000	5,0 - 6,5				01190003211
<b>4,0</b>	<b>9,5</b>	4,10	7,90	1,40	2,20	500	4.000	3,5 - 5,0	720	760	01190004009	
	<b>12,5</b>					500	3.000	5,0 - 8,0				01190004012
<b>4,8</b>	<b>8,0</b>	4,90	9,30	1,70	2,65	500	3.000	0,5 - 3,5	1.000	1.400	01190004808	
	<b>9,5</b>					500	3.000	3,5 - 5,0				01190004809
	<b>11,5</b>					500	3.000	5,0 - 6,5				01190004811
	<b>12,5</b>					250	2.000	6,5 - 8,0				01190004812
	<b>14,5</b>					250	2.000	8,0 - 9,5				01190004814
	<b>18,0</b>					250	1.500	9,5 - 13,0				01190004818

Tests according to EN ISO 14589

# PROFILE CLINCHER

## CUSTOMISED DESIGN AND UPON REQUEST

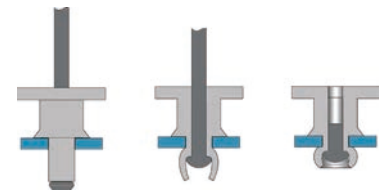
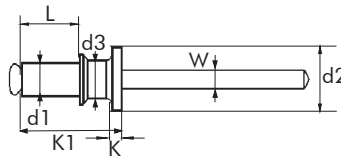
Specially designed for a fast and safe joining of moulds and clips.  
Used in the automotive and metalwork industries. Staggered body.  
Fast and simple with reduced cost assembly.



## ALUMINIUM/STEEL

## PROFILE CLINCHER

- BODY: Aluminium Al Mg 3,5
- MANDREL: Steel Zincplated A1K

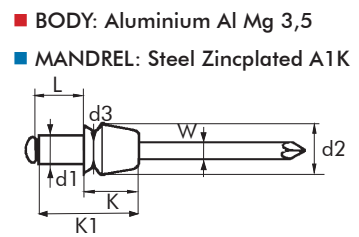
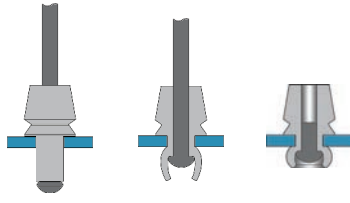


d1	L		d2	d3	K	K1	W	PACKAGING				REFERENCE
Ø mm	Nominal mm	 mm	Ø mm	Ø mm	mm	mm	Ø mm	Inner  Outer	 E MIN. mm MÁX	 (N)	 (N)	
2,4	5,0	2,50	5,00	3,00	1,00	8,50	1,45	1.000 8.000	3,00	340	490	01900002405

Tests according to EN ISO 14589

PROFILE CLINCHER

ALUMINIUM/STEEL



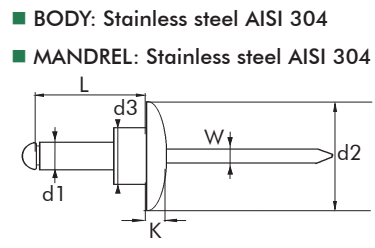
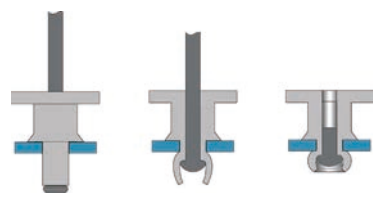
d1 Ø mm	L Nominal mm		d2 Ø mm	d3 Ø mm	K mm	K1 mm	W Ø mm	PACKAGING Inner Outer	 E MIN. mm MAX	 (N)	 (N)	REFERENCE
3,0	5,0	3,10	4,30	3,60	6,00	11,00	1,80	500 4.000	3,00	350	500	01900003005

d1 Ø mm	L Nominal mm		d2 Ø mm	d3 Ø mm	K mm	K1 mm	W Ø mm	PACKAGING Inner Outer	 E MIN. mm MAX	 (N)	 (N)	REFERENCE
3,9	7,5	4,10	6,50	5,00	5,90	13,50	2,10	500 6.000	5,00	1700	2000	019000039076

Tests according to EN ISO 14589

PROFILE CLINCHER

STAINLESS STEEL A2/STAINLESS STEEL A2



d1 Ø mm	L Nominal mm		d2 Ø mm	d3 Ø mm	K mm	W Ø mm	PACKAGING Inner Outer	 E MIN. mm MAX	 (N)	 (N)	REFERENCE
4,8	18,0	4,90	16,00	8,00	2,20	3,10	200 1.200	11,00 13,00	4000	5000	01931004818

Tests according to EN ISO 14589

# DRIVE RIVET

## EFFECTIVE METHOD OF JOINING SHEETS AND PROFILES TO SOFT AND FIBROUS SURFACES OR ROOFS

This fastener does not need through holes.  
Large head creates a wide bearing area.  
Resistant to corrosion.

### RIVET USED IN THE CONSTRUCTION

This type of blind rivet is widely used in the construction sector to fix sheets, moldings, angles, coatings or insulation.

This fixing element does not need through drills. The rivet mandrel (stainless steel) is forcefully introduced with a punch into the rivet body (aluminum), using for instance a hammer, opening the rivet body in 3 different blades fixing it inside the walls of the material to be fixed.

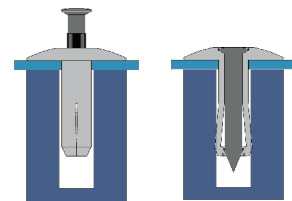
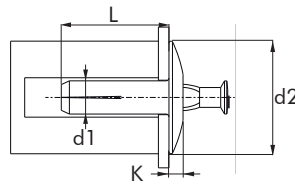






## ALUMINIUM/STAINLESS STEEL A2

DRIVE RIVET  
Large head



- BODY: Aluminium Al Mg 3
- MANDREL: Stainless steel AISI 304



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MAX	 (N)	 (N)	REFERENCE
						Inner	Outer				
4,8	7,6	5,00	16,00	2,00	2,75	3.000	3.000	2,9 - 4,4	3570	1900	G1509004808
	10,2					3.000	3.000	4,4 - 7,0			G1509004810
	12,7					3.000	3.000	7,0 - 9,5			G1509004813
	15,3					3.000	3.000	9,5 - 12,1			G1509004815
	17,8					2.500	2.500	12,1 - 14,6			G1509004818
	20,3					2.000	2.000	14,6 - 17,1			G1509004820
	22,9					2.000	2.000	17,1 - 19,7			G1509004823
	25,4					2.000	2.000	19,7 - 22,2			G1509004825
	27,9					2.000	2.000	22,2 - 24,8			G1509004828
	30,4					1.500	1.500	24,8 - 26,5			G1509004830
	35,0					1.500	1.500	29,1 - 31,5			G1509004835
	40,0					1.500	1.500	34,1 - 36,5			G1509004840
	50,0					1.000	1.000	44,1 - 46,5			G1509004850

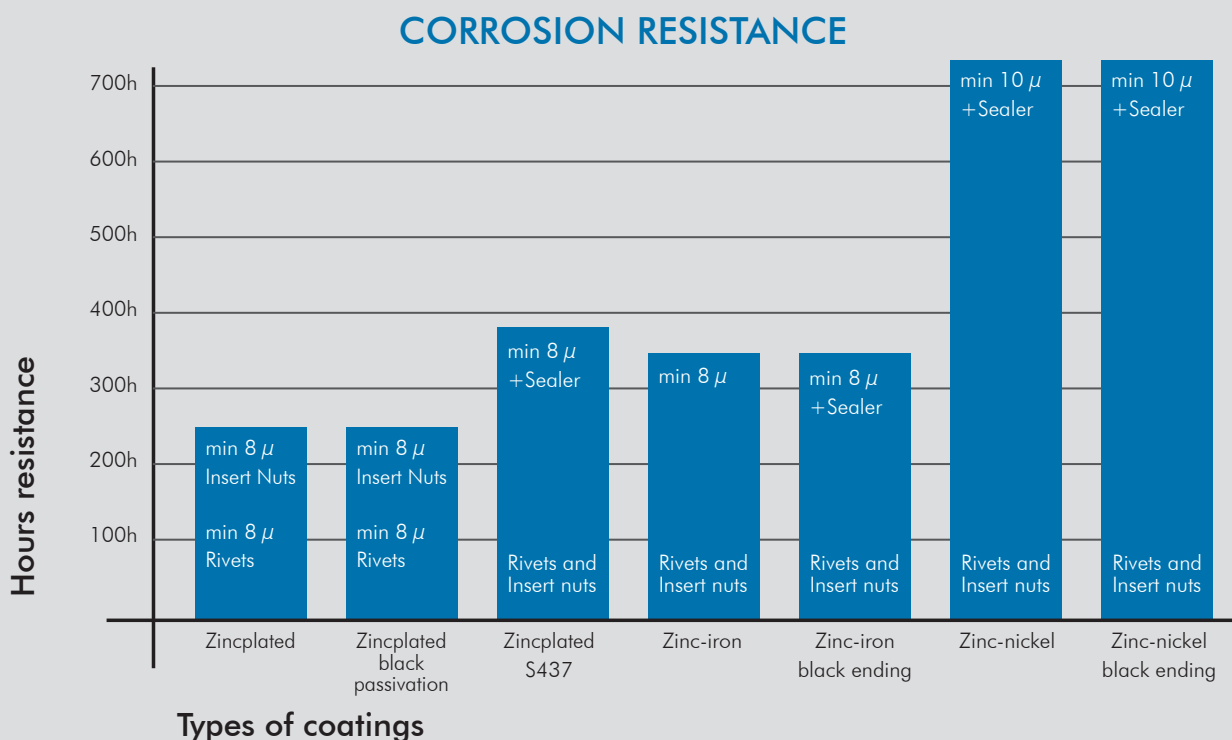
# STEEL RIVETS

For maximum corrosion resistance and durability of our steel rivet, we can apply different protective coatings, whether zincating or organic coating.



## COATINGS IN STEEL RIVETS

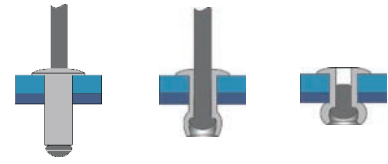
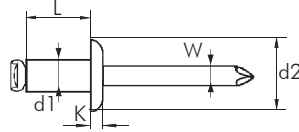
BRALO apply differets coatings, but for a maximum corrosion resistance and durability of the steel rivet or insert nut, it is possible to apply a special sealer, (transparent or black).




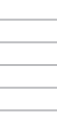




All the zincplated materials according to EN ISO 4042



- BODY: Steel Zincplated A3K
- MANDREL: Steel Zincplated A1K



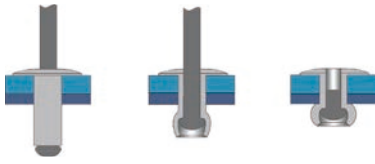
UNE - EN ISO 15979

d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MAX	 (N)	 (N)	REFERENCE
						 Inner	 Outer				
<b>3,0</b>	<b>6</b>	3,10	6,00	1,00	2,00	500	4.000	0,5 - 3,0	950	1100	01210003006
	<b>8</b>					500	4.000	3,5 - 5,0			01210003008
	<b>10</b>					500	4.000	5,0 - 6,5			01210003010
	<b>12</b>					500	4.000	6,5 - 8,0			01210003012
<b>3,2</b>	<b>6</b>	3,30	6,40	1,00	2,00	500	4.000	0,5 - 3,0	1100	1200	01210003206
	<b>8</b>					500	4.000	3,0 - 5,0			01210003208
	<b>10</b>					500	4.000	5,0 - 6,5			01210003210
	<b>12</b>					500	4.000	6,5 - 8,0			01210003212
	<b>14</b>					500	4.000	8,0 - 10,0			01210003214
	<b>16</b>					500	3.000	10,0 - 12,0			01210003216
<b>4,0</b>	<b>6</b>	4,10	8,00	1,30	2,40	500	4.000	1,0 - 3,0	1700	2200	01210004006
	<b>8</b>					500	4.000	3,0 - 5,0			01210004008
	<b>10</b>					500	4.000	5,0 - 6,5			01210004010
	<b>12</b>					500	3.000	6,5 - 9,0			01210004012
	<b>14</b>					500	3.000	9,0 - 10,0			01210004014
	<b>16</b>					500	3.000	10,0 - 12,0			01210004016
	<b>18</b>					500	3.000	12,0 - 14,0			01210004018
	<b>20</b>					500	3.000	14,0 - 16,0			01210004020
	<b>25</b>					250	1.500	19,0 - 21,0			01210004025
	<b>4,8</b>					<b>6</b>	4,90	9,50			1,40
<b>8</b>		500	3.000	2,5 - 4,0	01210004808						
<b>9</b>		500	3.000	3,0 - 5,0	01210004809						
<b>10</b>		500	3.000	4,0 - 6,0	01210004810						
<b>12</b>		250	2.000	6,0 - 8,0	01210004812						
<b>14</b>		250	2.000	8,0 - 9,5	01210004814						
<b>16</b>		250	2.000	9,5 - 11,0	01210004816						
<b>18</b>		250	1.500	10,0 - 13,0	01210004818						
<b>21</b>		250	1.500	11,0 - 15,0	01210004821						
<b>24</b>		200	1.200	15,0 - 19,5	01210004824						
<b>30</b>		200	1.200	19,5 - 25,0	01210004830						
<b>35</b>		150	900	25,0 - 30,0	01210004835						
<b>5,0</b>		<b>8</b>	5,10	9,50	1,60	2,93			500	3.000	
	<b>10</b>	500					3.000	4,0 - 6,0	01210005010		
	<b>12</b>	250					2.000	6,0 - 8,0	01210005012		
	<b>14</b>	250					2.000	8,0 - 9,5	01210005014		
	<b>16</b>	250					2.000	9,5 - 11,0	01210005016		
	<b>18</b>	250					1.500	10,0 - 13,0	01210005018		
	<b>20</b>	250					1.500	11,0 - 15,0	01210005020		
	<b>25</b>	200					1.200	15,0 - 19,5	01210005025		
	<b>30</b>	200					1.200	19,5 - 25,0	01210005030		
	<b>35</b>	150					900	25,0 - 30,0	01210005035		
	<b>40</b>	150					900	30,0 - 34,0	01210005040		
	<b>45</b>	100					600	34,0 - 39,0	01210005045		
<b>50</b>	100	600	39,0 - 44,0	01210005050							
<b>60</b>	100	600	49,0 - 54,0	01210005060							
<b>6,0</b>	<b>8</b>	6,10	12,00	1,80	3,60	250	1.500	1,5 - 3,0	4300	4800	01210006008
	<b>10</b>					250	1.500	3,0 - 4,0			01210006010
	<b>12</b>					250	1.500	4,0 - 6,0			01210006012
	<b>14</b>					250	1.500	6,0 - 8,0			01210006014
	<b>16</b>					200	1.200	8,0 - 10,0			01210006016
	<b>18</b>					200	1.200	10,0 - 12,0			01210006018
	<b>20</b>					200	1.200	12,0 - 14,0			01210006020
	<b>25</b>					150	900	14,0 - 19,0			01210006025
	<b>30</b>					150	900	19,0 - 24,0			01210006030
	<b>35</b>					100	600	24,0 - 29,0			01210006035
	<b>6,4</b>					<b>8</b>	6,50	13,00			2,20
<b>10</b>		250	1.500	3,0 - 4,0	01210006410						
<b>12</b>		250	1.500	4,0 - 6,0	01210006412						
<b>15</b>		250	1.200	6,0 - 9,0	01210006415						
<b>18</b>		200	1.200	9,0 - 11,0	01210006418						
<b>20</b>		150	900	9,0 - 13,0	01210006420						
<b>22</b>		150	900	13,0 - 16,0	01210006422						
<b>25</b>		150	900	13,0 - 19,0	01210006425						
<b>30</b>		100	600	19,0 - 24,0	01210006430						
<b>35</b>		500	500	24,0 - 29,0	G1210006435						

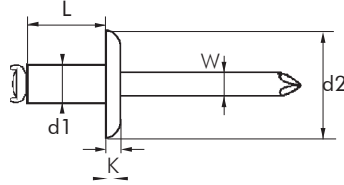
Tests according to EN ISO 14589

# STANDARD RIVET Large head







# STEEL/STEEL



- BODY: Steel Zincplated A3K
- MANDREL: Steel Zincplated A1K



UNE - EN ISO 15980

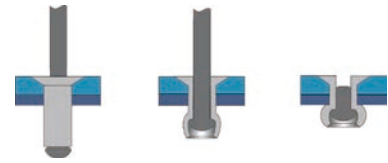
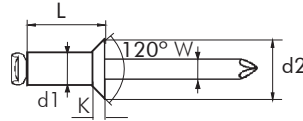
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MAX	 (N)	 (N)	REFERENCE
						 Inner	 Outer				
<b>4,0</b>	<b>6</b>	4,10	10,00	1,50	2,40	500	3.000	1,5 - 3,0	1700	2200	01230004006
	<b>8</b>					500	3.000	3,0 - 5,0			01230004008
	<b>10</b>					500	3.000	5,0 - 6,5			01230004010
	<b>12</b>					500	3.000	6,5 - 8,5			01230004012
	<b>14</b>					500	3.000	8,5 - 10,5			01230004014
<b>4,8</b>	<b>10</b>	4,90	14,00	2,10	2,93	250	1.500	4,0 - 6,0	2900	3100	01230004810
	<b>12</b>					250	1.500	6,0 - 8,0			01230004812
	<b>14</b>					250	1.500	8,0 - 9,5			01230004814
	<b>16</b>					250	1.500	9,5 - 11,0			01230004816
	<b>18</b>					200	1.200	10,0 - 13,0			01230004818
	<b>21</b>					200	1.200	11,0 - 15,0			01230004821
	<b>24</b>					150	900	15,0 - 19,5			01230004824
	<b>30</b>					150	900	19,5 - 25,0			01230004830
	<b>35</b>					100	600	25,0 - 30,0			01230004835
	<b>4,8</b>					<b>10</b>	4,90	16,00			2,10
<b>12</b>		250	1.500	6,0 - 8,0	01240004812						
<b>14</b>		200	1.200	8,0 - 9,5	01240004814						
<b>16</b>		200	1.200	9,5 - 11,0	01240004816						
<b>18</b>		200	1.200	10,0 - 13,0	01240004818						
<b>21</b>		150	900	11,0 - 15,0	01240004821						
<b>24</b>		150	900	15,0 - 19,5	01240004824						
<b>6,4</b>	<b>10</b>	6,50	19,00	3,00	3,85	1.000	1.000	3,0 - 4,0	4900	5700	G1240006410
	<b>12</b>					1.000	1.000	4,0 - 6,0			G1240006412
	<b>15</b>					1.000	1.000	6,0 - 9,0			G1240006415
	<b>18</b>					1.000	1.000	9,0 - 12,0			G1240006418
	<b>30</b>					500	500	19,0 - 24,0			G1240006430
	<b>42</b>					500	500	32,0 - 37,0			G1240006442





**Note:** Under request, zinplated black passivation rivets are made.  
Consult minimum quantity.



Black prices: Pieces available for immediate delivery.  
Red prices: Under request, consult minimum quantity.

- BODY: Steel Zincplated A3K
- MANDREL: Steel Zincplated A1K



d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MAX	 (N)	 (N)	REFERENCE
						Inner	Outer				
<b>3,2</b>	<b>6</b>	3,30	6,30	1,00	2,00	500	4.000	1,5 - 3,5	1100	1200	01220003206
	<b>8</b>					500	4.000	3,5 - 5,5			01220003208
	<b>10</b>					500	4.000	5,5 - 7,0			01220003210
	<b>12</b>					500	4.000	7,0 - 9,0			01220003212
<b>4,0</b>	<b>6</b>	4,10	7,60	1,30	2,40	500	4.000	2,0 - 3,0	1700	2200	01220004006
	<b>8</b>					500	4.000	3,0 - 5,0			01220004008
	<b>10</b>					500	4.000	5,0 - 6,5			01220004010
	<b>12</b>					500	3.000	6,5 - 8,5			01220004012
<b>4,8</b>	<b>14</b>					500	3.000	8,5 - 10,5			01220004014
	<b>8</b>	4,90	9,50	1,40	2,93	500	3.000	2,5 - 4,0	2900	3100	01220004808
	<b>10</b>					500	3.000	4,0 - 6,0			01220004810
	<b>12</b>					250	2.000	6,0 - 8,0			01220004812
<b>5,0</b>	<b>14</b>					250	2.000	8,0 - 10,0			01220004814
	<b>16</b>					250	2.000	9,0 - 11,0			01220004816
	<b>18</b>					250	1.500	11,0 - 13,0			01220004818
	<b>20</b>					250	1.500	13,0 - 15,0			01220004820
<b>5,0</b>	<b>10</b>	5,10	9,50	1,60	2,93	500	3.000	4,0 - 6,0	2900	3100	01220005010
	<b>12</b>					250	2.000	6,0 - 8,0			01220005012
	<b>25</b>					200	1.200	15,0 - 19,5			01220005025
<b>6,4</b>	<b>10</b>	6,50	12,50	2,00	3,85	250	1.500	3,0 - 4,0	4900	5700	01220006410
	<b>13</b>					250	1.500	5,0 - 7,0			01220006413
	<b>16</b>					250	1.500	6,0 - 9,0			01220006416
	<b>20</b>					200	1.200	19,5 - 25,0			01220006420

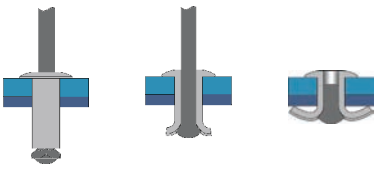
Tests according to EN ISO 14589

Black prices: Pieces available for immediate delivery.  
Red prices: Under request, consult minimum quantity.

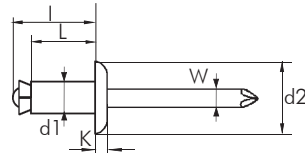








## PEELED RIVET Dome head

# STEEL/STEEL



- BODY: Steel Zincplated A3K
- MANDREL: Steel Zincplated A1K

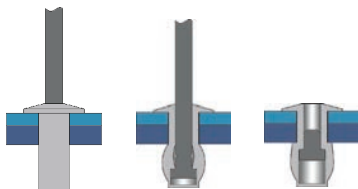


d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	 E mm MÁX	 (N)	 (N)	REFERENCE
						 Inner	 Outer					
4,0	9	4,30-4,40	8,00	1,20	2,40	3.000	12,4	5	3.800	2.600	G1850004009 G1850004012	
	12											

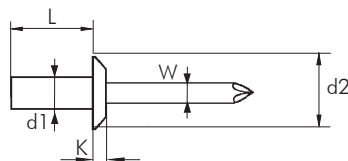
Tests according to EN ISO 14589

## SEALED RIVET Dome head







# STEEL/STEEL



- BODY: Steel Zincplated A3K
- MANDREL: Steel Zincplated A3K



UNE - EN ISO 15976

d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MÁX	 (N)	 (N)	REFERENCE
						 Inner	 Outer				
3,2	6,0	3,30	6,50	1,00	1,90	500	4.000	0,5 - 1,5	1150	1300	01290003206 01290003208 01290003209 01290003212
	8,0										
	9,5										
	12,0										
4,0	8,0	4,10	8,20	1,40	2,30	500	4.000	1,5 - 3,0	1700	1550	01290004008 01290004010 01290004012 01290004015
	10,0										
	12,0										
	15,0										
4,8	9,5	4,90	9,80	1,70	2,90	500	3.000	1,0 - 4,0	2400	2800	01290004809 01290004812
	12,0										

Tests according to EN ISO 14589

# MULTI-THICKNESS STEEL RIVETS

In BRALO we have a great variety of multi-thickness rivets. We can highlight the Multigrip, Hardvex and Hardgrip, which get a homogeneous riveting, achieving a solid union and high quality resistant to all type of vibrations. In addition, when installed properly, can provide an airtight seal against climate conditions.



MULTIGRIP



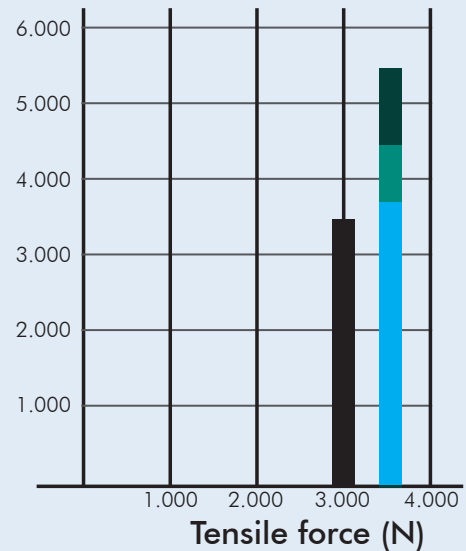
HARDVEX



HARDGRIP

## MULTI-THICKNESS STEEL RIVETS

Shear strength (N)

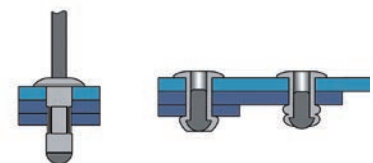
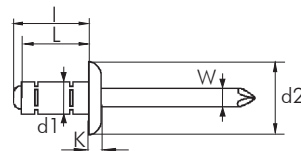
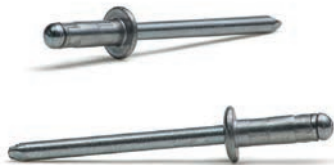



- Hardgrip 4,8 x 9,5
- Hardgrip 4,8 x 11,5
- Hardgrip 4,8 x 14,5
- Hardvex and Multigrip 4,8

## STEEL/STEEL

### MULTIGRIP RIVET Dome head

- BODY: Steel Zincplated A3K
- MANDREL: Steel Zincplated A1K



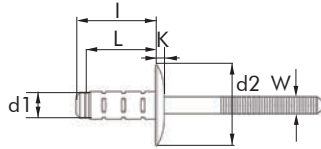
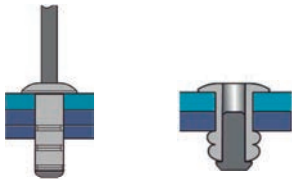
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E		REFERENCE	
						Inner	Outer		MIN mm	MÁX		(N)
3,2	9	3,30	7,50	1,00	2,00	500	4.000	11,3	2,0 - 5,0	1100	1250	01280003209
	500					4.000	15,3		4,0 - 6,0			01280003213
4,0	11,5	4,10	8,00	1,40	2,75	500	3.000	14,5	2,0 - 5,0	1900	2500	01280004011
4,8	10	4,90	9,80	1,50	3,00	250	2.000	13,0	1,0 - 4,5	3000	3300	01280004810
	250					2.000	16,0		4,0 - 6,5			01280004813








Tests according to EN ISO 14589

## HARDVEX RIVET Dome head

## STEEL/STEEL

- BODY: Steel Zincplated A3K
- MANDREL: Steel Zincplated A1K



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E MIN. mm MÁX		 (N)	 (N)	REFERENCE
						 Inner	 Outer						
4,8	11,0	4,90	9,80	1,50	3,00	2.000	14,0	1,5 - 6,5	3000	3300	G1874004811		
	14,0							1,5 - 9,0	G1874004814				
	17,0							6,5 - 12,5	G1874004817				
6,4	14,0	6,60	13,00	2,50	3,95	1.000	16,8	1,5- 7,6	3100	3600	G1874006414		

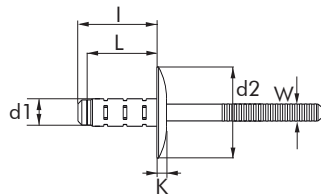
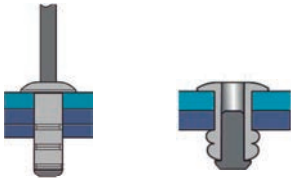
Tests according to EN ISO 14589








STEEL

## HARDVEX RIVET Large head

## STEEL/STEEL

- BODY: Steel Zincplated A3K
- MANDREL: Steel Zincplated A1K

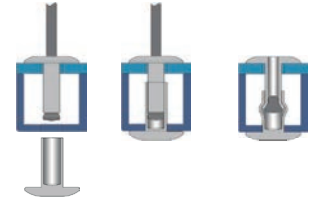
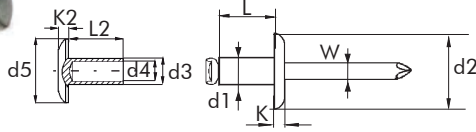




d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E MIN. mm MÁX		 (N)	 (N)	REFERENCE
						 Inner	 Outer						
4,8	11,0	4,90	16,00	2,00	3,00	1.000	14,0	1,5 - 6,5	3000	3300	G1877004811		
	14,5							1,5 - 9,5	G1877004814				
	17,5							6,5- 12,5	G1877004817				

Tests according to EN ISO 14589





- BODY: Steel Zincplated A3K
- MANDREL: Steel Zincplated A1K



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MÁX	REFERENCE
						Inner	Outer		
<b>4,8</b>	<b>11,0</b>	4,90	16,00	2,40	2,93	1.500	14,0 - 18,0	G1234004811	
	<b>14,5</b>					1.500	19,0 - 22,0	G1234004814	

Tests according to EN ISO 14589

d3 Ø mm	L2 Nominal mm	 mm	k2 mm	d4 Ø mm	d5 Ø mm	PACKAGING		 E MIN. mm MÁX	REFERENCE
						Inner	Outer		
<b>6,3</b>	<b>14,5</b>	7,80	2,60	4,90	16,00	1.500	14,0 - 18,0	G12340063145	

Note: Gripmate is sold separately.

# STAINLESS STEEL RIVETS

Stainless steel has a high corrosion resistance and it is used for applications that are in hard environmental conditions.

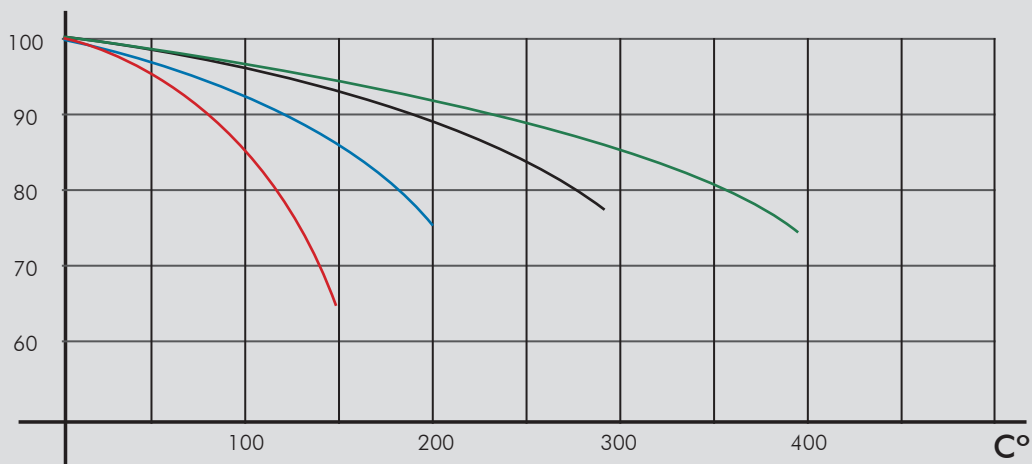


COATINGS AND PASSIVATION	APPEARANCE	USE IN CORROSION CONDITIONS
Stainless Steel passivation	No change	Very severe

## TEMPERATURE

BRALO have different types of materials with stainless steel, A2 stainless steel (AISI 304) and A4 stainless steel (AISI 316). We recommend selecting the rivet material according to the material of the joined parts in order to get greater resistance.

### % RESISTANCE VALUE



Aluminium



Steel Zincplated



Steel Zinc-nickel



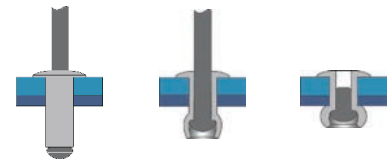
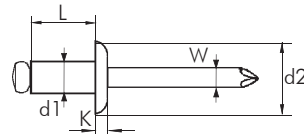
Stainless Steel







# STAINLESS STEEL A2/STAINLESS STEEL A2

## STANDARD RIVET Dome head

- BODY: Stainless steel AISI 304
- MANDREL: Stainless steel AISI 304



UNE - EN ISO 15983

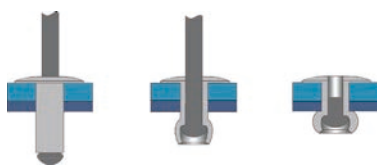
d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MAX	 (N)	 (N)	REFERENCE
						Inner	Outer				
<b>2,4</b>	<b>6</b>	2,50	5,00	0,60	1,50	1000	8.000	2,0 - 3,5	1000	1250	01260002406
	<b>8</b>					1000	8.000	3,5 - 5,5			01260002408
	<b>10</b>					1000	8.000	5,5 - 7,5			01260002410
	<b>12</b>					500	4.000	7,5 - 9,5			01260002412
<b>3,0</b>	<b>5</b>	3,10	6,00	1,00	2,00	500	4.000	0,5 - 2,5	1800	2200	01260003005
	<b>6</b>					500	4.000	0,5 - 3,0			01260003006
	<b>8</b>					500	4.000	3,0 - 5,0			01260003008
	<b>10</b>					500	4.000	5,0 - 6,5			01260003010
	<b>12</b>					500	4.000	6,5 - 8,5			01260003012
	<b>14</b>					500	4.000	8,5 - 10,5			01260003014
<b>3,2</b>	<b>6</b>	3,30	6,40	1,00	2,10	500	4.000	0,5 - 3,0	1900	2500	01260003206
	<b>8</b>					500	4.000	3,0 - 5,0			01260003208
	<b>10</b>					500	4.000	5,0 - 6,5			01260003210
	<b>12</b>					500	4.000	6,5 - 8,5			01260003212
	<b>15</b>					500	4.000	8,5 - 12,0			01260003215
	<b>18</b>					500	3.000	12,0 - 15,0			01260003218
<b>4,0</b>	<b>5</b>	4,10	8,00	1,30	2,40	500	4.000	1,0 - 1,5	2700	3500	01260004005
	<b>6</b>					500	4.000	1,0 - 2,5			01260004006
	<b>8</b>					500	4.000	2,5 - 4,5			01260004008
	<b>10</b>					500	4.000	4,5 - 6,5			01260004010
	<b>12</b>					500	3.000	6,5 - 8,5			01260004012
	<b>14</b>					500	3.000	8,5 - 10,0			01260004014
	<b>16</b>					500	3.000	10,0 - 12,0			01260004016
	<b>18</b>					500	3.000	12,0 - 14,0			01260004018
	<b>20</b>					500	3.000	14,0 - 16,0			01260004020
	<b>25</b>					250	1.500	16,0 - 21,0			01260004025
<b>4,8</b>	<b>8</b>	4,90	9,00	1,60	3,10	500	3.000	2,0 - 4,0	4000	5000	01260004808
	<b>10</b>					500	3.000	4,0 - 6,0			01260004810
	<b>12</b>					250	2.000	6,0 - 8,0			01260004812
	<b>14</b>					250	2.000	8,0 - 9,5			01260004814
	<b>16</b>					250	2.000	9,5 - 11,0			01260004816
	<b>18</b>					250	1.500	11,0 - 13,0			01260004818
	<b>20</b>					250	1.500	13,0 - 16,0			01260004820
	<b>25</b>					200	1.200	16,0 - 19,0			01260004825
	<b>30</b>					200	1.200	19,0 - 24,0			01260004830
	<b>35</b>					150	900	24,0 - 29,0			01260004835
<b>40</b>	150	900	29,0 - 34,0	01260004840							
<b>5,0</b>	<b>8</b>	5,10	9,00	1,60	3,10	500	3.000	2,0 - 4,0	4700	5800	01260005008
	<b>10</b>					500	3.000	4,0 - 6,0			01260005010
	<b>12</b>					250	2.000	6,0 - 8,0			01260005012
	<b>14</b>					250	2.000	8,0 - 9,5			01260005014
	<b>16</b>					250	2.000	9,5 - 11,0			01260005016
	<b>20</b>					250	1.500	13,0 - 16,0			01260005020
	<b>25</b>					200	1.200	16,0 - 19,0			01260005025
	<b>30</b>					200	1.200	20,0 - 25,0			01260005030
<b>35</b>	150	900	25,0 - 30,0	01260005035							
<b>40</b>	150	900	30,0 - 35,0	01260005040							
<b>6,0</b>	<b>10</b>	6,10	11,50	1,90	3,60	250	1.500	3,0 - 4,0	6000	8000	01260006010
	<b>12</b>					250	1.500	4,0 - 6,0			01260006012
	<b>14</b>					250	1.500	6,0 - 8,0			01260006014
	<b>16</b>					200	1.200	8,0 - 10,0			01260006016
	<b>18</b>					200	1.200	10,0 - 12,0			01260006018
	<b>20</b>					200	1.200	12,0 - 14,0			01260006020
<b>6,4</b>	<b>12</b>	6,50	12,50	2,20	3,85	250	1.500	2,0 - 6,0	7000	9000	01260006412
	<b>15</b>					250	1.500	6,0 - 9,0			01260006415
	<b>18</b>					200	1.200	9,0 - 12,0			01260006418
	<b>20</b>					150	900	12,0 - 14,0			01260006420
	<b>25</b>					150	900	14,0 - 18,0			01260006425
	<b>30</b>					100	600	18,0 - 22,0			01260006430

Tests according to EN ISO 14589

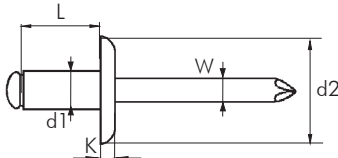
**Note:** This range of rivets is available in an infinity of lacquering under request. Consult minimum quantity.  
Under request, stainless steel of diameter 6,0 mm are made.





STANDARD RIVET  
Large head

# STAINLESS STEEL A2/STAINLESS STEEL A2



- BODY: Stainless steel AISI 304
- MANDREL: Stainless steel AISI 304

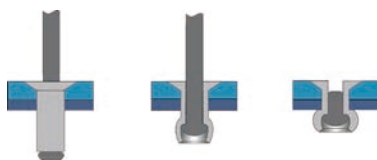


d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MÁX	 (N)	 (N)	REFERENCE
						Inner	Outer				
3,2	10	3,30	9,50	1,40	2,10	500	4.000	5,0 - 6,5	1900	2500	01310003210
4,0	10	4,10	12,00	1,80	2,40	500	3.000	5,0 - 7,0	2700	3500	01310004010
	13					250	2.000	7,0 - 10,0			01310004013
	16					250	2.000	10,0 - 13,0			01310004016
	18					250	2.000	12,0 - 15,0			01310004018
	25					250	2.000	16,0 - 21,0			01310004025
4,8	8	4,90	14,00	2,20	3,10	250	1.500	2,0 - 4,0	4000	5000	01311004808
	10					250	1.500	4,0 - 6,0			01311004810
	14					250	1.500	8,0 - 10,0			01311004814
4,8	8	4,90	16,00	2,20	3,10	250	1.500	2,0 - 4,0	4000	5000	01310004808
	10					250	1.500	4,0 - 6,0			01310004810
	12					250	1.500	6,0 - 8,0			01310004812
	14					250	1.500	8,0 - 10,0			01310004814
	16					200	1.200	9,5 - 11,0			01310004816
	18					150	900	11,0 - 13,0			01310004818
	20					150	900	13,0 - 16,0			01310004820
	22					100	600	16,0 - 18,0			01310004822
	25					100	600	16,0 - 19,0			01310004825
	30					100	600	19,0 - 24,0			01310004830
35					100	600	24,0 - 29,0			01310004835	

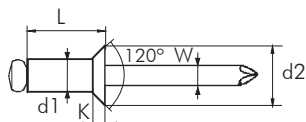
Tests according to EN ISO 14589

STANDARD RIVET  
Countersunk head 120°





# STAINLESS STEEL A2/STAINLESS STEEL A2



- BODY: Stainless steel AISI 304
- MANDREL: Stainless steel AISI 304



UNE - EN ISO 15984

d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MÁX	 (N)	 (N)	REFERENCE
						Inner	Outer				
3,2	6	3,30	6,30	1,00	2,10	500	4.000	1,5 - 3,0	1900	2500	01270003206
	8					500	4.000	3,0 - 5,0			01270003208
	10					500	4.000	5,0 - 6,5			01270003210
	12					500	4.000	6,5 - 8,5			01270003212
4,0	8	4,10	7,50	1,10	2,40	500	4.000	2,5 - 4,5	2700	3500	01270004008
	10					500	4.000	4,5 - 6,5			01270004010
	12					500	3.000	6,5 - 8,5			01270004012
	14					500	3.000	8,5 - 10,0			01270004014
4,8	8	4,90	9,50	1,40	3,10	500	3.000	2,5 - 4,0	4000	5000	01270004808
	10					500	3.000	4,0 - 6,0			01270004810
	12					250	2.000	6,0 - 8,0			01270004812
	14					250	2.000	8,0 - 10,0			01270004814
	18					250	1.500	12,0 - 14,0			01270004818

Tests according to EN ISO 14589

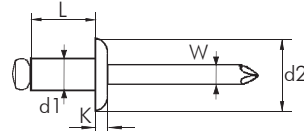
Note: This range of rivets is available in an infinity of lacquering under request. Ask for sizes without price.

# STAINLESS STEEL A4/STAINLESS STEEL A4





## STANDARD RIVET Dome head



- BODY: Stainless steel AISI 316
- MANDREL: Stainless steel AISI 316



UNE - EN ISO 15983

d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MÁX	 (N)	 (N)	REFERENCE	
						Inner	Outer					
3,0	6	3,00	6,00	1,00	2,00	500	4.000	0,5 - 3,0	1800	2520	01340003006	
	3,2	6	3,30	6,40	1,00	2,10	500	4.000	0,5 - 3,0	1900	2500	01340003206
		8					500	4.000	3,0 - 5,0			01340003208
		10					500	4.000	5,0 - 6,5			01340003210
		12					500	4.000	6,5 - 8,5			01340003212
15					500	4.000	8,5 - 12,0			01340003215		
4,0	6	4,10	8,00	1,30	2,40	500	4.000	1,0 - 2,5	2700	3500	01340004006	
	8					500	4.000	2,5 - 4,5			01340004008	
	10					500	4.000	4,5 - 6,5			01340004010	
	12					500	3.000	6,5 - 8,5			01340004012	
	14					500	3.000	8,5 - 10,0			01340004014	
	16					500	3.000	10,0 - 12,0			01340004016	
	20					500	3.000	14,5 - 16,0			01340004020	
4,8	8	4,90	9,00	1,60	3,10	500	3.000	2,0 - 4,0	4000	5000	01340004808	
	10					500	3.000	4,0 - 6,0			01340004810	
	12					250	2.000	6,0 - 8,0			01340004812	
	14					250	2.000	8,0 - 9,5			01340004814	
	16					250	2.000	9,5 - 11,0			01340004816	
	18					250	1.500	11,0 - 13,0			01340004818	
	20					250	1.500	13,0 - 16,0			01340004820	
5,0	8	5,10	9,00	1,60	3,10	500	3.000	2,0 - 4,0	4700	5800	01340005008	
	10					500	3.000	4,0 - 6,0			01340005010	
	12					250	2.000	6,0 - 8,0			01340005012	
	14					250	2.000	8,0 - 9,5			01340005014	
	16					250	2.000	9,5 - 11,0			01340005016	
	18					250	1.500	11,0 - 13,0			01340005018	
	20					250	1.500	13,0 - 16,0			01340005020	
35					150	900	25,0 - 29,0			01340005035		
40					150	900	29,0 - 34,0			01340005040		

Tests according to EN ISO 14589

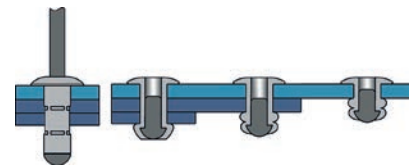
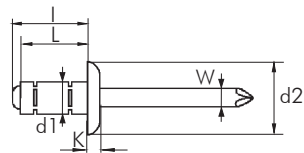
Note: Under request grooved mandrel rivets are made.

# STAINLESS STEEL A2/STAINLESS STEEL A2





## VERSAGRIP RIVET Dome head



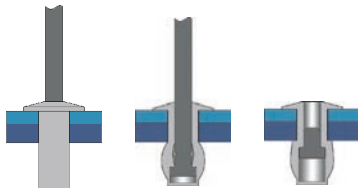
- BODY: Stainless steel AISI 304
- MANDREL: Stainless steel AISI 304



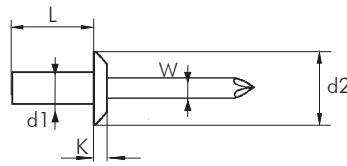
UNE - EN ISO 16585

d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MÁX	 (N)	 (N)	REFERENCE
						Inner	Outer				
4,0	11,0	4,20-4,40	8,00	1,20	2,70	500	3.000	2,0 - 7,0	3360	4850	0126A004011
4,8	11,5	5,00-5,20	9,20	1,40	3,10	250	2.000	2,0 - 5,0	5000	5500	0126A004811
						250	2.000	5,0 - 8,0			0126A004814
						250	2.000	5,0 - 10,0			0126A004816



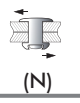







- BODY: Stainless steel AISI 304
- MANDREL: Stainless steel AISI 420



UNE - EN ISO 16585

d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 MIN. mm MAX.	 (N)	 (N)	REFERENCE
						 Inner	 Outer				
<b>3,2</b>	<b>8,0</b>	3,30	6,50	1,00	1,90	500	4.000	1,5 - 3,0	2000	2200	01300003208
	<b>9,5</b>					500	4.000	1,5 - 4,5			01300003209
	<b>12,0</b>					500	4.000	5,0 - 6,5			01300003212
<b>4,0</b>	<b>8,0</b>	4,10	8,00	1,40	2,30	500	4.000	1,5 - 3,0	3000	3500	01300004008
	<b>9,5</b>					500	4.000	3,0 - 5,0			01300004009
	<b>12,0</b>					500	3.000	5,0 - 6,5			01300004012
	<b>14,0</b>					500	3.000	6,5 - 8,0			01300004014
	<b>16,0</b>					500	3.000	8,0 - 11,0			01300004016
	<b>18,0</b>					250	1.500	11,0 - 13,0			01300004818
<b>6,4</b>	<b>12,0</b>	6,50	13,20	2,40	3,90	250	1.500	1,5 - 6,0	6000	8400	01300006412
	<b>16,0</b>					250	1.500	6,5 - 8,0			01300006416

Note: Under request sealed rivets in stainless steel A4 are made.



## ALLOY RIVETS

## NICKEL COPPER (MONEL®)



## NICKEL COPPER ALLOY RIVETS

Monel®\* is a nickel-copper alloy (approx. 65% nickel, 33% copper and 2% iron) with high tensile strength, high resistance to atmospheric corrosion, salt water and many acids and alkaline solutions.

BRALO offers rivets in this alloy to meet the demanding requirements and regulations of specific industries, such as construction of turbines, chemical equipment, valves, pumps and construction of heat transfer as well as the automotive industry.

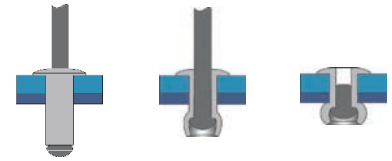
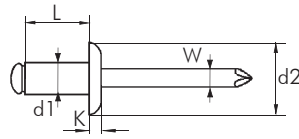
\* The term "Monel" is a copyright protected brand name of the company Special Metals Corporation, Huntington (West Virginia), USA.







# MONEL®/STEEL

## STANDARD RIVET Dome head



- BODY: Monel®
- MANDREL: Steel



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MAX	 (N)	 (N)	REFERENCE	
						 Inner	 Outer					
3,2	6,2	3,30	6,00	0,80	2,00	500	4.000	1,8 - 3,1	1500	1900	01390003206	
	7,5					500	4.000	3,1 - 4,3				01390003208
	10,3					500	4.000	4,3 - 7,1				01390003210
4,0	6,2	4,10	6,70	1,00	2,40	500	4.000	0,5 - 2,5	2200	3000	01390004006	
	7,8					500	4.000	2,5 - 4,1				01390004008
	9,5					500	4.000	4,1 - 5,8				01390004010
	11,5					500	3.000	5,8 - 7,9				01390004012
4,8	7,6	4,90	8,10	1,10	2,93	500	3.000	2,3 - 3,8	3300	3750	01390004808	
	10,0					500	3.000	3,8 - 5,8				01390004810
	13,0					250	2.000	5,8 - 8,6				01390004813
	16,5					250	2.000	5,0 - 12,5				01390004817
	19,0					250	1.500	12,5 - 15,0				01390004819

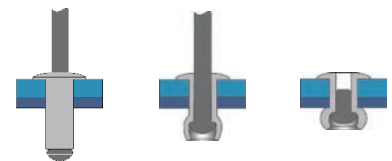
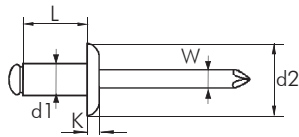
ALLOY


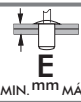




# MONEL®/STAINLESS STEEL

## STANDARD RIVET Dome head



- BODY: Monel®
- MANDREL: Stainless steel AISI 304



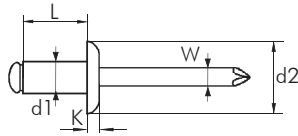
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MAX	 (N)	 (N)	REFERENCE	
						 Inner	 Outer					
3,2	6,2	3,30	6,00	0,80	2,00	500	4.000	1,8 - 3,1	1500	1900	01399003206	
	7,5					500	4.000	3,1 - 4,3				01399003208
	10,3					500	4.000	4,3 - 7,1				01399003210
4,0	6,2	4,10	6,70	1,00	2,40	500	4.000	0,5 - 2,5	2200	3000	01399004006	
	7,8					500	4.000	2,5 - 4,1				01399004008
	9,5					500	4.000	4,1 - 5,8				01399004010
	11,5					500	3.000	5,8 - 7,9				01399004012
4,8	7,6	4,90	8,10	1,10	3,10	500	3.000	2,3 - 3,8	3300	3750	01399004808	
	10,0					500	3.000	3,8 - 5,8				01399004810
	13,0					250	2.000	5,8 - 8,6				01399004813
	16,5					250	2.000	5,0 - 12,5				01399004817
	19,0					250	1.500	12,5 - 15,0				01399004819

## STANDARD RIVET Dome head







## COPPER/STEEL



- BODY: Copper
- MANDREL: Steel Zincplated A1K



UNE - EN ISO 16582

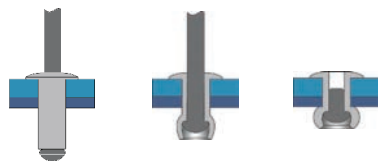
d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		 MIN. mm MAX	 (N)	 (N)	REFERENCE
						 Inner	 Outer				
<b>3,0</b>	<b>6</b>	3,10	6,00	1,00	1,80	500	4.000	2,0 - 3,0	760	950	01250003006
	<b>8</b>					500	4.000	3,0 - 5,0			01250003008
	<b>10</b>					500	4.000	5,0 - 7,0			01250003010
	<b>12</b>					500	4.000	7,0 - 9,0			01250003012
<b>4,0</b>	<b>6</b>	4,10	8,00	1,30	2,40	500	4.000	2,5 - 3,5	1500	1800	01250004006
	<b>8</b>					500	4.000	3,5 - 5,0			01250004008
	<b>10</b>					500	4.000	5,0 - 7,0			01250004010
	<b>12</b>					500	3.000	7,0 - 8,5			01250004012
	<b>14</b>					500	3.000	8,5 - 10,0			01250004014
	<b>16</b>					500	3.000	10,0 - 12,5			01250004016
<b>4,8</b>	<b>8</b>	4,90	9,50	1,40	2,93	500	3.000	2,5 - 4,0	2000	2500	01250004808
	<b>10</b>					500	3.000	4,0 - 6,0			01250004810
	<b>12</b>					500	3.000	6,0 - 8,0			01250004812
	<b>14</b>					250	2.000	8,0 - 10,0			01250004814
	<b>16</b>					250	2.000	10,0 - 12,0			01250004816

Tests according to EN ISO 14589

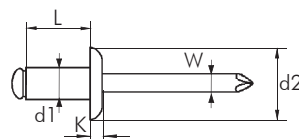
**Note:** Copper rivets are thermal and electrical conductors. Suitable for applications with blind holes and applications on soft materials.

## STANDARD RIVET Dome head







## COPPER/BRONZE



- BODY: Copper
- MANDREL: Bronze



UNE - EN ISO 16582

d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		 MIN. mm MAX	 (N)	 (N)	REFERENCE
						 Inner	 Outer				
<b>3,0</b>	<b>6</b>	3,10	6,00	1,00	1,80	500	4.000	2,0 - 3,0	760	950	01400003006
	<b>8</b>					500	4.000	3,0 - 5,0			01400003008
	<b>10</b>					500	4.000	5,5 - 7,0			01400003010
	<b>12</b>					500	4.000	7,0 - 9,0			01400003012
<b>3,2</b>	<b>6</b>	3,30	6,40	1,00	1,80	500	4.000	2,0 - 3,0	800	1000	01400003206
	<b>8</b>					500	4.000	3,0 - 5,0			01400003208
	<b>10</b>					500	4.000	5,0 - 7,0			01400003210
	<b>12</b>					500	4.000	7,0 - 9,0			01400003212
<b>4,0</b>	<b>6</b>	4,10	8,00	1,30	2,40	500	4.000	2,5 - 3,5	1500	1800	01400004006
	<b>8</b>					500	4.000	3,5 - 5,0			01400004008
	<b>10</b>					500	4.000	5,0 - 7,0			01400004010
	<b>12</b>					500	3.000	7,0 - 8,5			01400004012
	<b>14</b>					500	3.000	8,5 - 10,0			01400004014
	<b>16</b>					500	3.000	10,0 - 12,5			01400004016

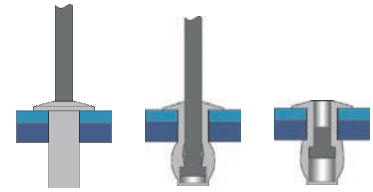
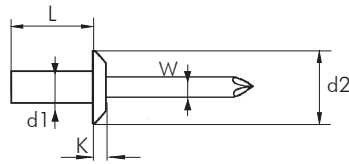
Tests according to EN ISO 14589





# COPPER/STEEL

## SEALED RIVET Dome head



- BODY: Copper
- MANDREL: Steel lubricated



d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MÁX	 (N)	 (N)	REFERENCE	
						Inner	Outer					
<b>3,2</b>	<b>6,5</b>	3,30	6,20	1,00	1,65	500	4.000	0,5 - 2,0	1250	1300	01320003206	
	<b>8,0</b>					500	4.000	2,0 - 3,5				01320003208
	<b>9,5</b>					500	4.000	3,5 - 5,0				01320003209
	<b>12,0</b>					500	4.000	6,5 - 8,0				01320003212
<b>4,0</b>	<b>8,0</b>	4,10	8,20	1,40	2,30	500	4.000	0,5 - 3,5	1800	1500	01320004008	
	<b>10,0</b>					500	4.000	3,0 - 5,0				01320004010
<b>4,8</b>	<b>9,5</b>	4,90	9,50	1,60	2,65	500	3.000	1,0 - 4,5	3350	3300	01320004809	
	<b>12,0</b>					500	3.000	4,0 - 7,0				01320004812

Tests according to EN ISO 14589

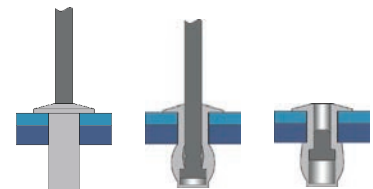
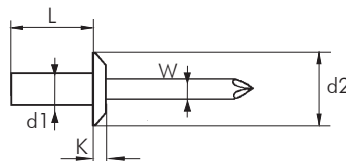
# COPPER





# COPPER/STAINLESS STEEL A2

## SEALED RIVET Dome head



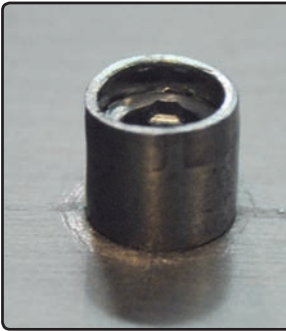
- BODY: Copper
- MANDREL: Stainless steel AISI 304



d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MÁX	 (N)	 (N)	REFERENCE	
						Inner	Outer					
<b>3,2</b>	<b>6,5</b>	3,30	6,20	1,00	1,65	500	4.000	0,5 - 2,0	1250	1300	01329003206	
	<b>8,0</b>					500	4.000	2,0 - 3,5				01329003208
	<b>9,5</b>					500	4.000	3,5 - 5,0				01329003209
<b>4,0</b>	<b>8,0</b>	4,10	8,20	1,00	2,30	500	4.000	0,5 - 3,5	1800	1500	01329004008	
	<b>10,0</b>					500	4.000	3,5 - 5,0				01329004010

Tests according to EN ISO 14589

# HIGH-STRENGTH RIVETS STRUCTURAL, HARDLOCK, HARDGRIP



## STRUCTURAL RIVET

Multi-grip range features.  
High resistance to tensile and shear strength.  
Moisture and pressure tight.  
The hole is filled thoroughly.



## HARDGRIP RIVET

Ideal for applications with hard plastics and thin sheets.  
Designed for the most demanding applications that require a great clamping force.  
High resistance to tensile and shear strengths.  
Fill the hole perfectly.



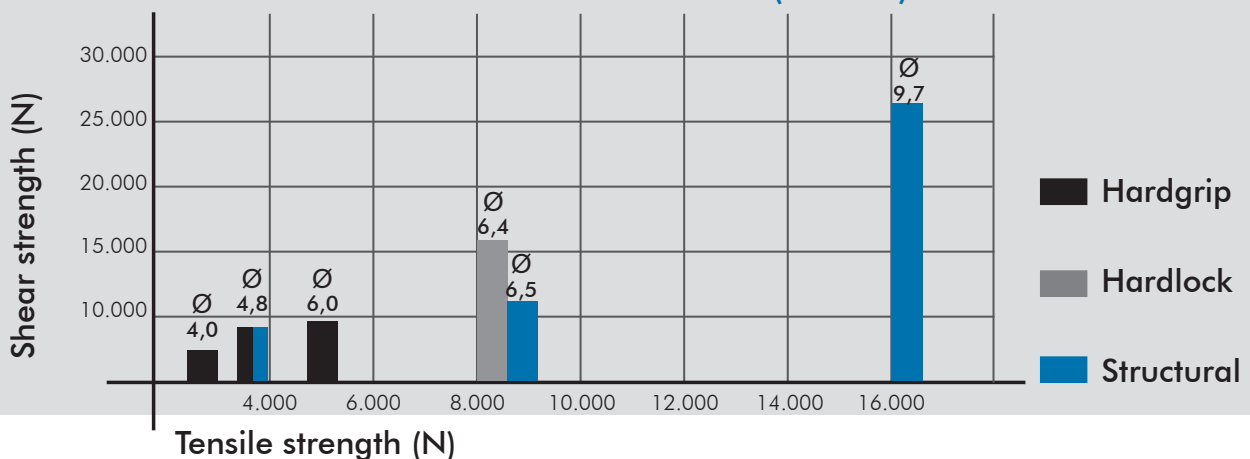
## HARDLOCK RIVET

Designed for elements that require exceptional tensile and shear strengths.  
Effective head locking system through a mechanical locking of the grooves.  
Especially suitable to work with thin sheet materials.  
Avoids any kind of electrical problems and noise.

## EXCEPTIONAL RESISTANCE

BRALO Structural Rivets are designed to meet the most demanding of applications, where an exceptional resistance for both tensile and shear strength is needed. Quick and easy to install, they provide unalterable fastening for extensive periods of time. Structural rivets are widely employed for use in heavy applications, for example, in the automotive, construction, air conditioning and solar power industries.

### STRENGTH STEEL RIVETS (BRALO)

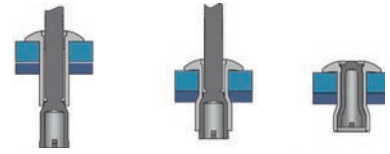
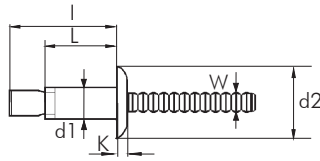





# ALUMINIUM/ALUMINIUM

## STRUCTURAL RIVET Dome head



- BODY: Aluminium Al Mg 5
- MANDREL: Aluminium



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E MIN. mm MÁX		 (N)	 (N)	REFERENCE
						Inner	Outer						
4,8	10,3	4,90-5,10	9,70	1,80	3,00	2.000	18,5	1,5 - 6,8	2900	2550	G1801004810		
	13,5	1.500				24,0	1,5 - 11,0	G1801004813					
6,5	14,0	6,60-7,00	13,00	2,50	4,00	1.000	25,0	1,0 - 9,5	6000	4200	G1801006514		
	20,0	1.000				35,0	2,0 - 16,0	G1801006520					

Tests according to EN ISO 14589

**Note:** This product needs to be set with a special nosepiece.  
For installation information please contact your local BRALO representative.

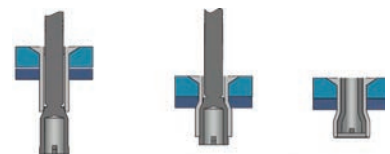
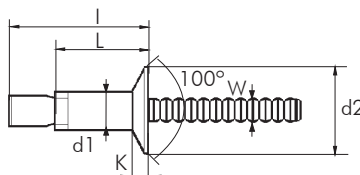





# ALUMINIUM/ALUMINIUM

## STRUCTURAL RIVET Countersunk head 100°



- BODY: Aluminium Al Mg 5
- MANDREL: Aluminium



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E MIN. mm MÁX		 (N)	 (N)	REFERENCE
						Inner	Outer						
4,8	12,3	4,90-5,10	9,70	1,80	3,00	2.000	20,0	3,2 - 8,4	2900	2550	G1802004812		
	16,50	1.000				26,5	3,0 - 12,0	6000	4200	G1802006516			

Tests according to EN ISO 14589

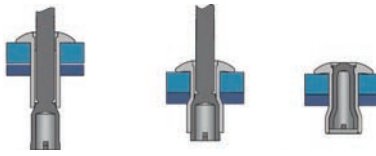
**Note:** This product needs to be set with a special nosepiece.  
For installation information please contact your local BRALO representative.



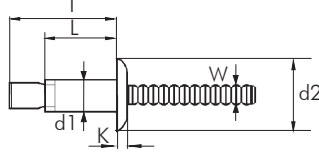
STRUCTURAL RIVET




## STRUCTURAL RIVET Dome head

## STEEL/STEEL



- BODY: Steel Zincplated A3K
- MANDREL: Steel Zincplated A3K



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E		 (N)	 (N)	REFERENCE
						Inner	Outer		MIN. mm	MÁX			
4,8	10,3	4,90-5,10	9,70	1,80	3,00	2.000	18,5	1,5 -	6,8	5100	3900	G1821004810	
	13,5					1.500	24,0	1,5 -	11,0	G1821004813			
6,5	14,0	6,60-7,00	13,00	2,50	4,00	1.000	25,0	2,0 -	9,5	11200	8800	G1821006514	
	20,0					1.000	35,0	2,0 -	16,0	G1821006520			
	22,5					1.000	37,0	6,0 -	18,0	G1821006522			
9,7	22,0	9,90-10,40	20,00	3,70	5,90	350	36,2	3,0 -	15,5	26300	17500	G1821009722	

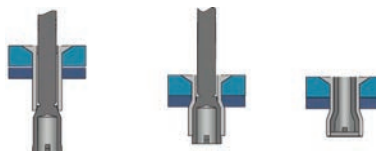
- Tests according to EN ISO 14589

**Note:** This product needs to be set with a special nosepiece.  
For installation information please contact your local BRALO representative.

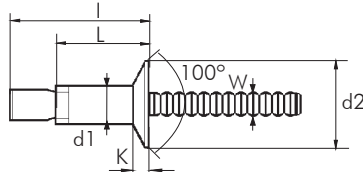





## STRUCTURAL RIVET Countersunk head 100°

## STEEL/STEEL



- BODY: Steel Zincplated A3K
- MANDREL: Steel Zincplated A3K



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E		 (N)	 (N)	REFERENCE
						Inner	Outer		MIN. mm	MÁX			
4,8	12,3	4,90-5,10	8,70	1,80	3,00	2.000	20,0	3,2 -	8,4	5100	3900	G1822004812	
	16,5					1.500	26,3	3,2 -	12,2	G1822004816			
6,5	16,5	6,60-7,00	10,60	2,00	4,00	1.000	26,5	3,0 -	12,0	11200	8800	G1822006516	
	22,0					1.000	35,5	6,0 -	18,0	G1822006522			

- Tests according to EN ISO 14589

**Note:** This product needs to be set with a special nosepiece.  
For installation information please contact your local BRALO representative.

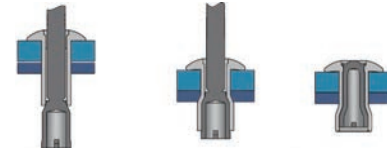
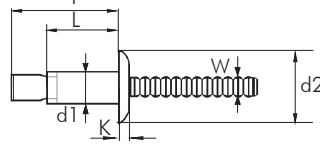





# STAINLESS STEEL A2/STAINLESS STEEL A2

## STRUCTURAL RIVET Dome head



- BODY: Stainless steel AISI 304
- MANDREL: Stainless steel AISI 304



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E		 (N)	 (N)	REFERENCE
						Inner	Outer		MIN. mm	MÁX			
4,8	10,3	4,90-5,10	9,70	1,80	3,00	2.000	18,5	1,5	-	6,8	5800	5000	G1826004810
	13,5							1.500	24,0	1,5			
6,5	14,0	6,60-7,00	13,00	2,50	4,00	1.000	25,0	1,0	-	9,5	9900	8100	G1826006514
	20,0							1.000	35,0	2,0			

\*

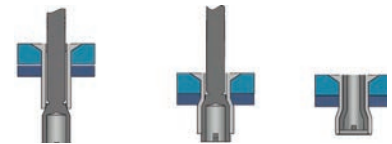
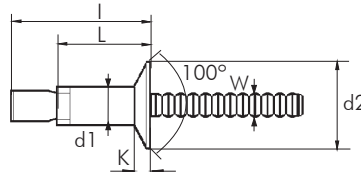
Tests according to EN ISO 14589




# STAINLESS STEEL A2/STAINLESS STEEL A2

## STRUCTURAL RIVET Countersunk head 100°



- BODY: Stainless steel AISI 304
- MANDREL: Stainless steel AISI 304



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E		 (N)	 (N)	REFERENCE
						Inner	Outer		MIN. mm	MÁX			
6,5	16,5	6,60-7,00	10,60	2,00	4,00	1.000	26,5	3,0	-	12,0	9900	8100	G1827006516
	22,5							1.000	35,5	6,0			

\*

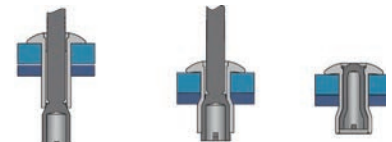
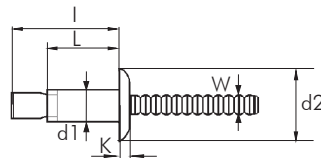
Tests according to EN ISO 14589




# STAINLESS STEEL A4/STAINLESS STEEL A4

## STRUCTURAL RIVET Dome head



- BODY: Stainless steel AISI 316
- MANDREL: Stainless steel AISI 316



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E		 (N)	 (N)	REFERENCE
						Inner	Outer		MIN. mm	MÁX			
6,5	14,0	6,60-7,00	13,00	2,50	4,00	1.000	24,0	2,0	-	9,5	9900	8100	G1834006514
	20,0							1.000	33,0	2,0			

\*

Tests according to EN ISO 14589

Note: All rivets on this page needs to be set with a special nosepiece.  
For installation details please contact your local BRALO representative.

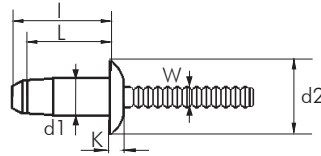
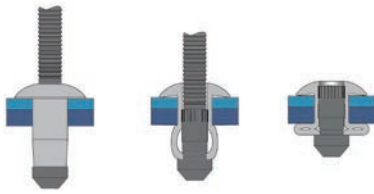






**HARDLOCK RIVET**  
Dome head

# ALUMINIUM/ALUMINIUM

- BODY: Aluminium Al Mg 2,5 (AW5052)
- MANDREL: Aluminium



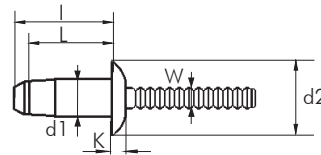
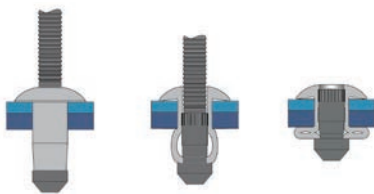
d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E MIN. mm MÁX		(N)	(N)	REFERENCE
						Inner	Outer						
6,5	10,5		13,00	2,50	4,20	1.500	15,0	2,8 - 4,8	5000	2800	G1881006410		
	12,5					1.000	17,0	4,8 - 6,8	5200	2800	G1881006412		
	14,5					1.000	19,0	6,8 - 8,8	5400	2800	G1881006414		
	16,5					1.000	21,0	8,8 - 10,8	5400	2800	G1881006416		
	18,5					1.000	23,0	10,8 - 12,8	5400	2800	G1881006418		



Tests according to EN ISO 14589

**HARDLOCK RIVET**  
Dome head

# STEEL/STEEL

- BODY: Steel Zincplated A3K
- MANDREL: Steel Zincplated A3K



d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E MIN. mm MÁX		(N)	(N)	REFERENCE
						Inner	Outer						
6,5	10,5		13,00	2,70	4,00	1.500	15,0	2,8 - 4,8	12000	8800	G1884006410		
	12,5					1.000	17,0	4,8 - 6,8	12500	8800	G1884006412		
	14,5					1.000	19,0	6,8 - 8,8	14000	8800	G1884006414		
	16,5					1.000	21,0	8,8 - 10,8	15000	8800	G1884006416		
	18,5					1.000	23,0	10,8 - 12,8	16000	8800	G1884006418		
	20,5					1.000	25,0	12,8 - 14,8	16000	8800	G1884006420		
	22,5					1.000	27,0	14,8 - 16,8	16000	8800	G1884006422		

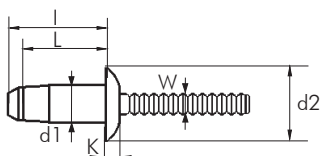
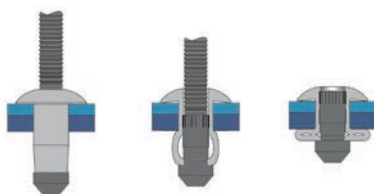
Tests according to EN ISO 14589



Note: Under request we do manufacture steel blind rivets with head (d2) to 19mm.

**HARDLOCK RIVET**  
Dome head

# STAINLESS STEEL A2/STAINLESS STEEL A2

- BODY: Stainless steel AISI 304
- MANDREL: Stainless steel AISI 304



d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E MIN. mm MÁX		(N)	(N)	REFERENCE
						Inner	Outer						
6,5	14,5		13,00	2,90	4,00	1.000	19,0	6,8 - 8,8	13500	8000	G1886006415		
	16,5					1.000	21,0	8,8 - 10,8	13500	8000	G1886006417		

Tests according to EN ISO 14589

Note: Under request we do manufacture steel blind rivets with head (d2) to 19mm.

All rivets on this page require special jaws.

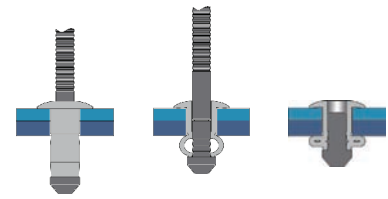
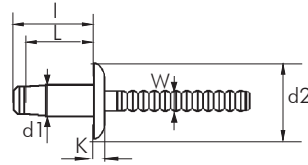
STRUCTURAL RIVET




# STEEL/STEEL

## HARDGRIP RIVET Dome head



- BODY: Steel Zincplated A3K
- MANDREL: Steel Zincplated A3K



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E MIN. mm MÁX		 (N)	 (N)	REFERENCE
						Inner	Outer						
3,2	7,0	3,30-3,50	6,50	1,00	2,00	500	4.000	10,0	1,0	- 3,0	1700	1400	01894003207
	9,5					500	4.000	12,0	3,0	- 5,0	2000	1400	01894003210
	11,5					500	4.000	15,0	5,0	- 7,0	2400	1400	01894003212
4,0	7,5	4,10-4,30	8,00	1,40	2,60	500	4.000	10,5	1,0	- 3,0	2400	2800	01894004008
	8,5					500	4.000	11,5	2,0	- 4,0	2600	2800	01894004009
	9,5					500	3.000	12,5	3,0	- 5,0	3500	2800	01894004010
	12,5					500	3.000	15,5	5,0	- 7,0	4100	2800	01894004013
4,8	9,0	4,90-5,10	9,20	1,50	3,00	500	3.000	12,0	1,5	- 3,5	3500	3500	01894004809
	11,5					250	2.000	14,5	3,5	- 6,0	4200	3500	01894004812
	14,5					250	2.000	17,5	6,0	- 8,5	5600	3500	01894004815
	16,5					250	2.000	19,5	8,5	- 10,5	4200	3500	01894004817
6,0	10,0	6,10-6,30	12,00	1,80	4,00		1.500	14,0	1,5	- 4,0	4200	5400	G1894006010
	13,0						1.500	17,0	3,0	- 6,0	5400	5400	G1894006013
	16,0						1.000	20,0	6,0	- 9,0	8500	5400	G1894006016
	19,0						1.000	23,0	9,0	- 12,0	8500	5400	G1894006019

Tests according to EN ISO 14589

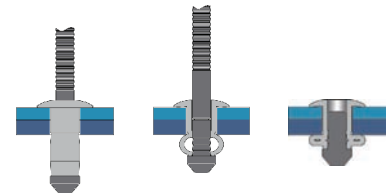
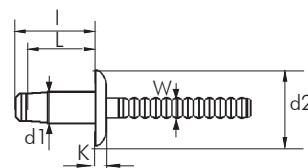
**Note:** Under request we do manufacture Hardgrip rivets with countersunk head (d2).  
Ask for price, minimum quantities and delivery.




# STAINLESS STEEL A2/STAINLESS STEEL A2

## HARDGRIP RIVET Dome head



- BODY: Stainless steel AISI 304
- MANDREL: Stainless steel AISI 304

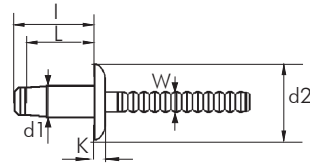
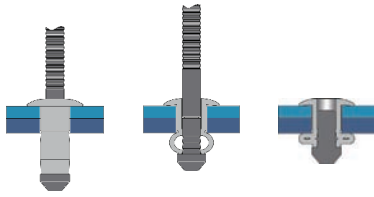


d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Máx. mm	E MIN. mm MÁX		 (N)	 (N)	REFERENCE
						Inner	Outer						
3,2	7,5	3,30-3,40	6,60	1,00	2,10	500	4.000	10,0	1,0	- 3,0	2000	1700	01896003207
	9,5					500	4.000	12,0	3,0	- 5,0			01896003210
	11,5					500	4.000	15,0	5,0	- 7,0			01896003212
4,0	7,5	4,20-4,40	8,00	1,40	2,60	500	4.000	10,5	1,0	- 3,0	5200	4000	01896004008
	9,5					500	3.000	12,5	3,0	- 5,0			01896004010
	12,5					500	3.000	15,5	5,0	- 7,0			01896004013
4,8	7,5	5,00-5,20	9,20	1,50	3,20	500	3.000	10,0	0,8	- 2,0	5500	5000	01896004808
	9,5					500	3.000	13,0	1,5	- 3,5			01896004809
	11,5					250	2.000	15,0	3,5	- 6,0			01896004812
	14,5					250	2.000	18,0	6,0	- 8,5			01896004815
	16,5					250	2.000	20,0	8,5	- 11,0			01896004817

Tests according to EN ISO 14589

**Note:** Under request we do manufacture Hardgrip rivets with countersunk head (d2).  
Ask for price, minimum quantities and delivery.

- BODY: Stainless steel AISI 316
- MANDREL: Stainless steel AISI 316



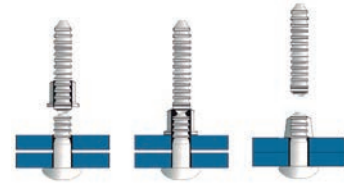
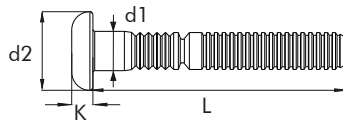
d1	L		d2	K	W	PACKAGING	I	E			REFERENCE
Ø mm	Nominal mm	 mm	Ø mm	mm	Ø mm	 Inner Outer	Máx. mm	MIN. mm MÁX	 (N)	 (N)	
3,2	9,5	3,30-3,40	6,60	1,00	2,10	500 4.000	12,0	3,0 - 5,0	1.700	3.900	01896003210A4







Tests according to EN ISO 14589

# STEEL/STEEL

## UNILOCK RIVET Lockbolt

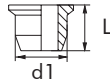
■ Steel Zincoated A3K





d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	PACKAGING  	 E MIN. mm MÁX	 (N)	 (N)	REFERENCE
6,5	xx	6,60	13,00	3,50	2.000	*1,5 - 30,0			074210065XX
	xx								076210065XX



4 Grooves  
6 Grooves

\*Note: This range of rivets are available under request, from a length of 3.7mm to 48 mm depending on the griprange required. Ask for sizes without price.



d1 Ø mm	L Nominal mm	PACKAGING  	REFERENCE
10,3	9,0	500 3000	07322006509

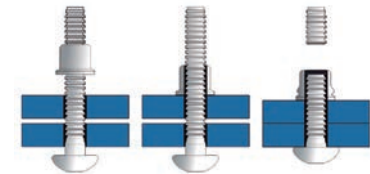
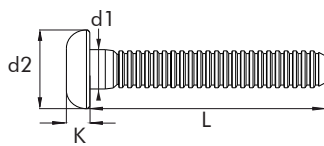








d1 Ø mm	L Nominal mm	PACKAGING  	REFERENCE
10,3	8,0		07322006508



# STEEL/STEEL

## BRALOCK RIVET Lockbolt

■ Steel Zincoated A3K



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	PACKAGING  	 E MIN. mm MÁX	 (N)	 (N)	REFERENCE
6,5	57,0	6,60	13,00	3,40	500	1,6 31,7	11800	1600	07821006557

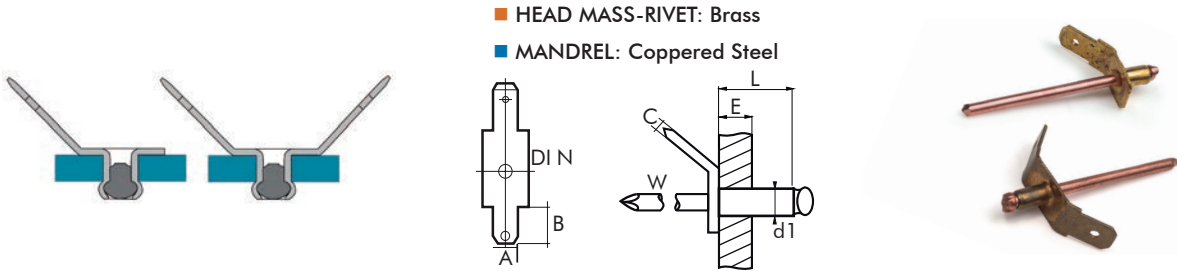
d1 Ø mm	L Nominal mm	PACKAGING  	REFERENCE
10,3	11,0	1000	07328DH6511





Note: Bralock is sold separately mandrel and collar. Ask for sizes without price.

**BRASS MASS-RIVET**  
Special rivet

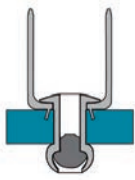
**STEEL/BRASS/COPPER**



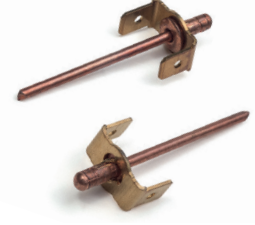
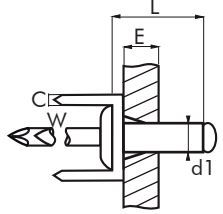
- HEAD MASS-RIVET: Brass
- MANDREL: Coppered Steel



d1 mm	L Nominal mm	 mm	A mm	B mm	C mm	W mm	PACKAGING		 E MIN mm MAX	REFERENCE
							Inner	Outer		
4,0	7	4,10	6,30	8,50	0,80	2,40	250	1.500	4,0	01910004007 01920004007

1 TAB  
2 TAB



- MASS-RIVET: Brass
- MANDREL: Coppered steel
- HEAD: Copper



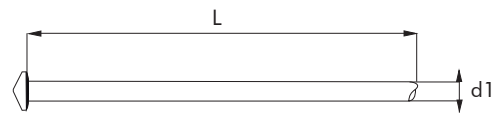
d1 mm	L Nominal mm	 mm	A mm	B mm	C mm	W mm	PACKAGING		 E MIN mm MAX	REFERENCE
							Inner	Outer		
3,8	8	5,20	6,30	7,80	0,80	2,25	250	1.500	1,3	01920003808

Note: Under request, we make terminals with 1 and 4 outputs.

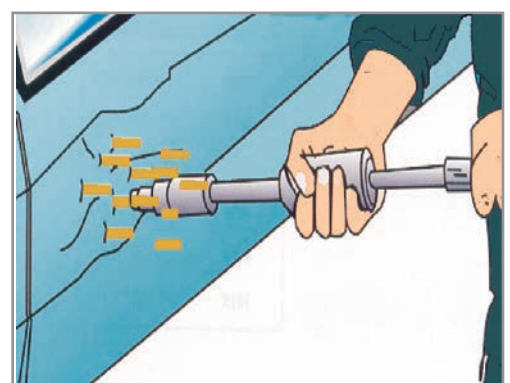
**COPPERED NAILS**

**COPPER/STEEL**

- Coppered steel

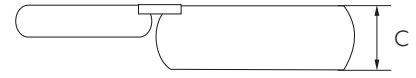
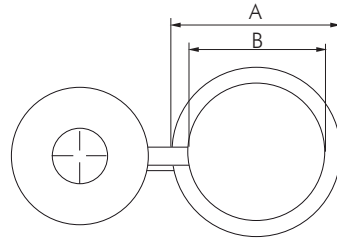


d1 mm	L Nominal mm	PACKAGING		REFERENCE
		Inner	Outer	
2,0	50	500	4000	04000002050
2,5	50	500	4000	04000002550



# NYLON

## CAPS FOR RIVET Rivet accessories

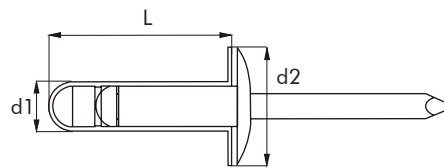


For Rivets d1 Ø mm	RAL	A mm	B mm	C mm	PACKAGING		REFERENCE
					Inner	Outer	
	Black 9005				500	4.000	07000N09000
	White						07000BL9000
<b>3,2</b>	Yellow 1104						07000J19000
<b>4,0</b>	Grey 7035	12,00	9,50	4,40			07000G09000
<b>4,8</b>	Brown 8014						07000M09000
	Cream 1015						07000BE9000
	Blue 5002						07000A59000

**Note:** The nylon caps can be use with standard, peeled and trebol rivets with a head diameter up to 9,5 mm.

# NYLON

## COVERS FOR RIVET Rivet accessories

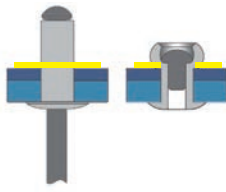


For rivets d1 Ø mm	L Nominal mm	d1 Ø mm	d2 Ø mm	RAL	PACKAGING		REFERENCE
					Inner	Outer	
<b>4,8</b>	<b>21</b>	5,80	14,00	Negro 9005	250	2.000	07000N01400

WASHERS FOR RIVET  
Rivet accessories

STEEL

■ Galvanised steel protection



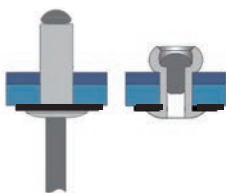
For rivets d1 Ø mm	A mm	B mm	C mm	BLISTER		REFERENCE
				Inner	Outer	
2,4	2,50	9,00	1,00	1.000	10.000	07210002400
3,0	3,10	9,00	1,00	1.000	10.000	07210003000
3,2	3,30	9,50	1,00	1.000	10.000	07210003200
4,0	4,10	12,00	1,00	500	5.000	07210004000
4,8	4,90	15,00	1,50	250	2.500	07210004800
5,0	5,10	15,00	1,50	250	2.500	07210005000
6,0	6,10	15,00	1,50	250	2.500	07210006000
6,4	6,50	15,00	1,50	250	2.500	07210006400

**Note:** The washers are used when the material on the back of the application is soft or brittle. Or when the drill on the back is too big.  
Ideal for repair and replacement of rivets.

WASHERS FOR RIVET  
Rivet accessories

EPDM

■ EPDM



For rivets d1 Ø mm	A mm	B mm	C mm	BLISTER		REFERENCE
				Inner	Outer	
3,2	3,00	6,00	0,80	1.000	10.000	07020603001
4,0	3,80	7,00	0,80	1.000	10.000	07020703801
<b>4,0-4,8</b> Large head Ø14 Ø15 Ø16	<b>4,00</b>	<b>14,00</b>	<b>1,30</b>	500	5.000	07020144001
4,8	4,60	9,00	0,80	1.000	10.000	07020904601
5,0	5,00	8,00	1,30	1.000	10.000	07020805001

**Note:** The EPDM washers increase the tightness of rivets and nuts. They can be easily placed on the fastening element.

# SPEED RIVETS

## SPEED AND EFFICIENCY

They are supplied in a strip of paper (loading system) and placed using a repetition system with a single mandrel.

At the end of a riveting cycle, the next rivet is automatically fed in the tool nose-piece,

ready to begin a new cycle. This is due to its bulging and pre-shaped end. The result is a fastener element with a high torque capacity and a good resistance to shear strength.



### BSV

Designed for the joining of soft or low resistance materials.

### BSR

Suitable for applications in metal, plastic and aluminum alloys.

## FEATURES AND BENEFITS

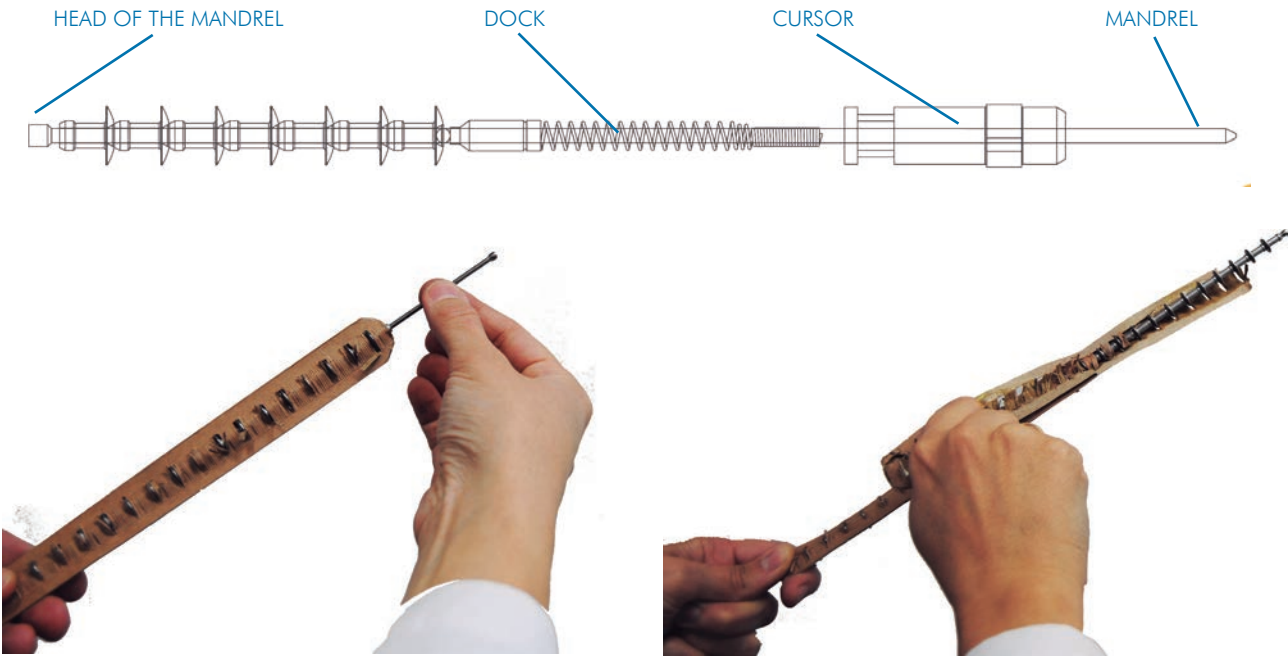
- One-sided and high-speed assembly; the mounting cycle time does not exceed 2 seconds.
- Assembly of high precision and great quality.
- Increases productivity, there are no interruptions and up to 60 rivets per minute can be placed.
- Diversity as it is available in different materials, aluminium, steel and stainless steel, and different measures.
- It does not deform surfaces once riveted (painted, enamelled, etc.).
- You can join materials with different types of fabrication: composites, laminated materials, heat treated, etc.
- Conical end to facilitate the embouchure in the drill hole.
- Radial expansion during installation, ensuring an excellent filling of the drill.
- They have no stem so there are no noises or stalks.
- They are not loosened by vibrations.
- Its bulged or preformed end, offers a high tightness in the union, and a good resistance to shearing.



# SPEED RIVETS

## RAPID-RIVETING PREPARATION FOR THE RR-10

1. Place the pointer in the RR-10 rivet-gun barrel.
2. Place the nozzle.
3. To load the rivets into the stem, insert the stem into the paper sheath containing the rivets.
4. Place the spring at the end of the stem, blocking the spring in the end of the stem and removing the paper sheath as seen in the image.



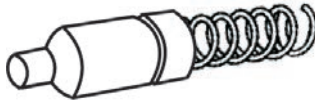
## EQUIPMENT

The equipment always consists of three elements: nozzle, stem, and spring. The three elements are linked to the rivets and the size of the drill in the application. BRALO will help you choose the correct setup, since correctly choosing a nozzle means correctly-done, high-quality riveting.

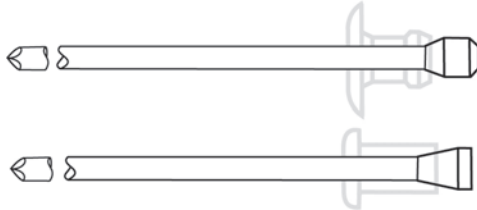
The stems and springs used in rapid riveting should be selected based on the type of rivet as well as its diameter.



JAWS



DOCK

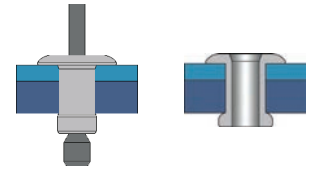
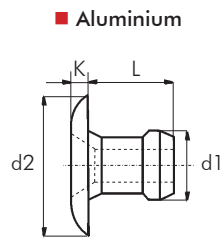



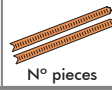




MANDREL

# ALUMINIUM

## SPEED RIVET BSR Dome head

SPEED RIVET

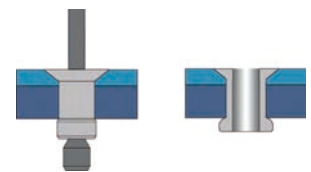
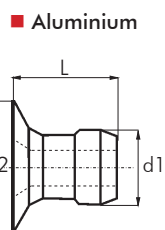



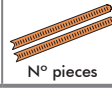




d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	 N° pieces	PACKAGING  Outer	 E MIN. mm MÁX	 (N)	 (N)	REFERENCE
<b>3,2</b>	<b>4,3</b>	3,26 - 3,34	6,30	0,95	58	30.000	1,2 - 2,4	720	1260	G1550003204
	<b>5,3</b>				48	25.000	2,2 - 3,4			G1550003205
	<b>6,3</b>				42	20.000	3,2 - 4,4			G1550003206
	<b>7,3</b>				37	20.000	4,2 - 5,4			G1550003207
	<b>8,3</b>				33	15.000	5,2 - 6,4			G1550003208
	<b>9,3</b>				30	15.000	6,2 - 7,5			G1550003209
<b>4,0</b>	<b>4,9</b>	3,97 - 4,04	8,00	1,05	52	23.000	1,6 - 2,9	1100	1700	G1550004005
	<b>5,9</b>				44	20.000	2,7 - 3,9			G1550004006
	<b>6,9</b>				38	17.000	3,7 - 4,9			G1550004007
	<b>7,9</b>				34	15.000	4,7 - 5,9			G1550004008
	<b>8,9</b>				30	13.000	5,7 - 6,9			G1550004009
	<b>9,9</b>				28	12.000	6,7 - 7,9			G1550004010
<b>4,8</b>	<b>6,1</b>	4,87 - 4,95	9,50	1,20	42	15.000	2,1 - 3,9	1400	1900	G1550004806
	<b>7,3</b>				36	13.000	3,7 - 5,2			G1550004807
	<b>8,6</b>				31	11.000	5,0 - 6,4			G1550004808
	<b>9,9</b>				28	10.000	6,3 - 7,7			G1550004809
	<b>11,1</b>				24	9.000	7,5 - 9,0			G1550004811

**Note:** This range is manufactured under request. For detailed information on minimum quantities and delivery times please contact your BRALO representative.

# ALUMINIUM

## SPEED RIVET BSR Countersunk head

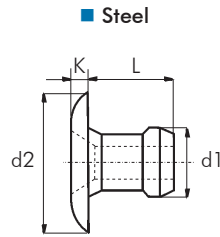
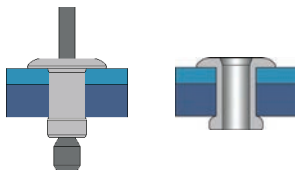


d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	 N° pieces	PACKAGING  Outer	 E MIN. mm MÁX	 (N)	 (N)	REFERENCE
<b>3,2</b>	<b>4,8</b>	3,26 - 3,34	5,40	0,75	65	30.000	1,6 - 2,7	900	1600	G1552003204
	<b>5,8</b>				52	25.000	2,6 - 3,8			G1552003205
	<b>6,8</b>				44	20.000	3,6 - 4,8			G1552003206
	<b>7,8</b>				38	20.000	4,6 - 5,8			G1552003207
	<b>8,8</b>				34	17.000	5,6 - 6,8			G1552003208
<b>4,0</b>	<b>5,2</b>	3,97 - 4,04	6,50	1,05	58	25.000	1,6 - 2,9	1100	1700	G1552004005
	<b>5,7</b>				54	23.000	2,2 - 3,4			G1552004055
	<b>6,2</b>				49	20.000	2,7 - 3,9			G1552004006
	<b>7,2</b>				42	20.000	3,7 - 4,9			G1552004007
	<b>8,2</b>				36	15.000	4,7 - 5,9			G1552004008
	<b>9,2</b>				32	15.000	5,7 - 6,9			G1552004009


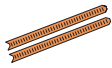




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**SPEED RIVET BSR**  
Dome head

**STEEL**



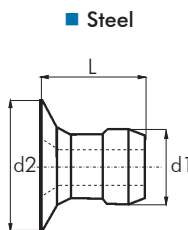
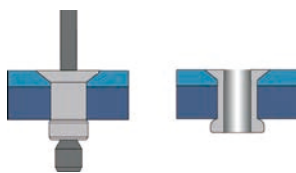
**SPEED RIVET**


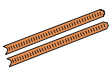




d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	 N° pieces	PACKAGING  Outer	 E MIN. mm MÁX	 (N)	 (N)	REFERENCE
<b>3,2</b>	<b>3,8</b>	3,26 - 3,34	6,30	0,95	65	30.000	1,0 - 1,9	1100	1800	G1560003203
	<b>4,3</b>									G1560003204
	<b>5,3</b>									G1560003205
	<b>6,3</b>									G1560003206
	<b>7,3</b>									G1560003207
	<b>8,3</b>									G1560003208
	<b>9,3</b>									G1560003209
<b>4,0</b>	<b>4,9</b>	3,97 - 4,04	8,00	1,05	52	23.000	1,6 - 2,9	1600	2800	G1560004005
	<b>5,4</b>									G1560004055
	<b>5,9</b>									G1560004006
	<b>6,9</b>									G1560004007
	<b>7,9</b>									G1560004008
	<b>8,9</b>									G1560004009
	<b>4,8</b>									<b>5,4</b>
<b>6,1</b>		G1560004806								
<b>7,3</b>		G1560004807								
<b>8,6</b>		G1560004808								
<b>9,9</b>		G1560004809								
<b>11,1</b>		G1560004811								

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**SPEED RIVET BSR**  
Countersunk head

**STEEL**



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	 N° pieces	PACKAGING  Outer	 E MIN. mm MÁX	 (N)	 (N)	REFERENCE
<b>3,2</b>	<b>4,3</b>	3,26 - 3,34	5,40	0,75	70	30.000	1,3 - 2,0	900	1600	G1562003203
	<b>4,8</b>									G1562003204
	<b>5,8</b>									G1562003205
	<b>6,8</b>									G1562003206
	<b>7,8</b>									G1562003207
	<b>8,8</b>									G1562003208
<b>4,0</b>	<b>5,2</b>	3,97 - 4,04	6,50	1,05	58	25.000	1,6 - 2,9	1100	1700	G1562004005
	<b>5,7</b>									G1562004055
	<b>6,2</b>									G1562004006
	<b>7,2</b>									G1562004007
	<b>8,2</b>									G1562004008
	<b>9,2</b>									G1562004009

**Note:** This range is manufactured under request. Please contact your BRALO representative.

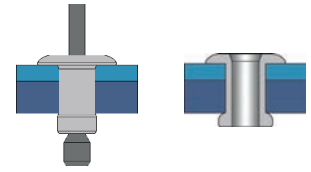
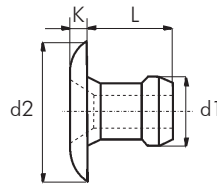
# STAINLESS STEEL A2


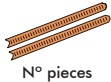




## SPEED RIVET BSR Dome head

SPEED RIVET



■ Stainless steel A2



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	 N° pieces	PACKAGING  Outer	 E MIN. mm MÁX	 (N)	 (N)	REFERENCE
3,2	4,3	3,26 - 3,34	6,30	0,95	58	30.000	1,2 - 2,4	1300	2000	G1570003204
	5,3				48	25.000	2,2 - 3,4			G1570003205
	6,3				42	20.000	3,2 - 4,4			G1570003206
4,0	4,9	3,97 - 4,04	8,00	1,05	52	23.000	1,6 - 2,9	2400	3500	G1570004004
	5,4				44	20.000	2,2 - 3,4			G1570004005
	5,9				44	20.000	2,7 - 3,9			G1570004006
	6,9				38	17.000	3,7 - 4,9			G1570004007
4,8	5,4	4,85 - 4,93	9,50	1,20	46	15.000	1,7 - 3,3	3500	5100	G1570004805
	6,1				42	15.000	2,1 - 3,9			G1570004806
	7,3				36	13.000	3,7 - 5,2			G1570004807

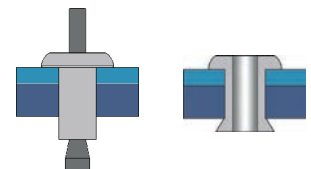
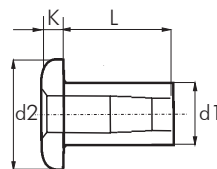
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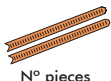




# ALUMINIUM

## SPEED RIVET BSV Dome head



■ Aluminium



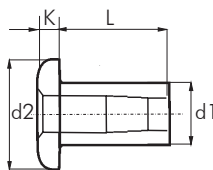
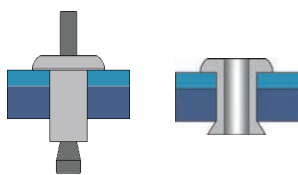
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	 N° pieces	PACKAGING  Outer	 E MIN. mm MÁX	 (N)	 (N)	REFERENCE
3,2	3,2	3,30-3,35	5,20	1,20	70	30.000	0,5 - 1,6	500		G1510003203
	4,8				51	25.000	1,6 - 3,2		G1510003204	
	6,4				38	20.000	3,2 - 4,8		G1510003206	
	7,9				32	17.000	4,8 - 6,4		G1510003207	
	9,5				27	15.000	6,4 - 7,9		G1510003209	
	11,1				23	12.000	7,9 - 9,5		G1510003211	
4,0	4,8	4,10-4,15	6,20	1,50	46	20.000	1,6 - 3,2	700		G1510004004
	6,4				38	17.000	3,2 - 4,8		G1510004006	
	7,9				34	15.000	4,8 - 6,4		G1510004007	
	9,5				27	12.000	6,4 - 7,9		G1510004009	
	11,1				23	9.000	7,9 - 9,5		G1510004011	
4,8	5,6	4,85-4,95	8,60	1,80	38	13.000	1,6 - 3,2	1000		G1510004805
	7,2				33	12.000	3,2 - 4,8		G1510004807	
	8,8				28	10.000	4,8 - 6,4		G1510004808	
	10,3				24	9.000	6,4 - 7,9		G1510004810	
	11,9				22	8.000	7,9 - 9,5		G1510004811	


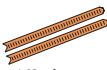




**Note:** This range is manufactured under request. For detailed information on minimum quantities and delivery times please contact your BRALO representative.

# SPEED RIVET BSV Dome head

# STEEL

■ Steel



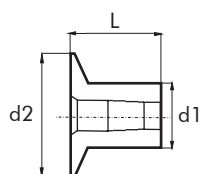
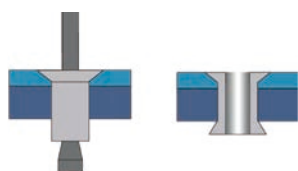
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	 N° pieces	PACKAGING  Outer	 E MIN. mm MÁX	 (N)	 (N)	REFERENCE
<b>3,2</b>	<b>3,2</b>	3,27-3,34	5,20	1,20	70	30.000	0,5 - 1,6	1000		G1520003203
	<b>4,8</b>									G1520003205
	<b>6,4</b>									G1520003206
	<b>7,9</b>									G1520003207
	<b>9,5</b>									G1520003209
<b>4,0</b>	<b>4,8</b>	4,10-4,15	6,20	1,50	46	20.000	1,6 - 3,2	1400		G1520004004
	<b>6,4</b>									G1520004006
	<b>7,9</b>									G1520004007
	<b>9,5</b>									G1520004009
	<b>11,1</b>									G1520004011
<b>4,8</b>	<b>5,6</b>	4,85-4,95	8,60	1,80	38	13.000	1,6 - 3,2	2400		G1520004805
	<b>7,2</b>									G1520004807
	<b>8,8</b>									G1520004808
	<b>10,3</b>									G1520004810
	<b>11,9</b>									G1520004812


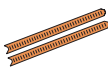




Note: This range is manufactured under request. Please contact your BRALO representative.

# SPEED RIVET BSV Countersunk head

# STEEL

■ Steel



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	 N° pieces	PACKAGING  Outer	 E MIN. mm MÁX	 (N)	 (N)	REFERENCE
<b>3,2</b>	<b>3,2</b>	3,28-3,34	5,50	70	30.000	0,5 - 1,6	1000		G1522003203
	<b>4,0</b>								G1522003204
	<b>4,8</b>								G1522003205
	<b>6,4</b>								G1522003206
	<b>7,9</b>								G1522003208
<b>4,0</b>	<b>4,8</b>	4,09-4,16	6,50	62	20.000	1,6 - 3,2	1400		G1522004004
	<b>6,4</b>								G1522004006
	<b>7,9</b>								G1522004008
	<b>9,5</b>								G1522004009
	<b>11,2</b>								G1522004011
<b>4,8</b>	<b>5,6</b>	4,85-4,93	8,90	52	15.000	1,6 - 3,2	2400		G1522004805
	<b>7,2</b>								G1522004807
	<b>8,8</b>								G1522004808
	<b>10,3</b>								G1522004810
	<b>11,9</b>								G1522004812

Note: This range is manufactured under request. For detailed information on minimum quantities and delivery times please contact your BRALO representative.

SPEED RIVET

# INSERT NUTS

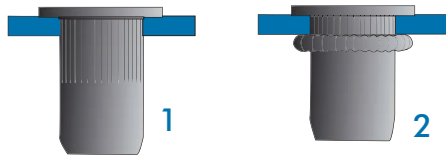
BRALO threaded Inserts provide a fast, reliable and simple fastening system with high quality and resistance.

Insert nuts are a mechanical fastener that provide a thread feature in applications with soft materials or with a small grip. They are used for fastening materials with a single side access.

They are used for fastening materials with single sided setting access, such as hinges, supports or panels.

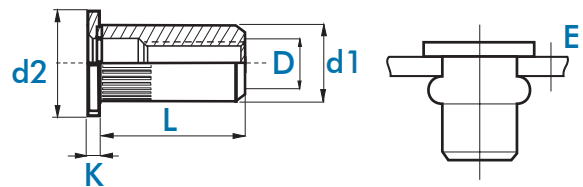


## RIVETING PROCESS

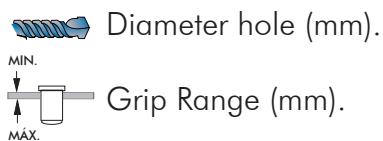


1. Insert the nut onto the tool and then into the hole. Push the trigger and the tool will set the main body, completely filling the hole through a radial expansion.
2. The insert nut reduces after being set. Finally, unscrew the nut from the tool.

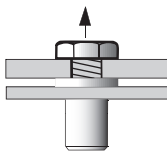
## DIMENSIONS



- d1.** Diameter of the main body.
- d2.** Diameter of the head.
- L.** Length of the main body.
- D.** Interior thread diameter.
- K.** Thickness of the head.

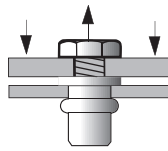


## STRENGTH



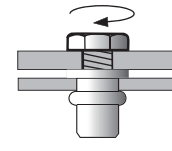
### Setting effort (N)

It is the tensile force necessary to cause the riveting force to assembly the insert nut.



### Thread tensile force (N)

Occurs when a riveted joint is subjected to two forces in opposite directions applied to the symmetry axis of the insert.



### Torque testing (Nm)

The torque is the strength which is used to tighten the screw in order to secure the attachment of parts without causing breakage.

# INSERT NUTS TYPES

## STANDARD HEAD TYPES



### REDUCED HEAD

It offers the possibility of creating a virtual flat surface without the need of countersinking.



### COUNTERSUNK HEAD

This type of head creates a flush surface as a countersunk drill is applied in the application.



### LARGE HEAD

It provides a large bearing area that strengthens the hole and prevents traction and pulling failures. It can also be used as a separator.

### OPEN END

It offers the possibility of inserting a screw in order to get vibration resistance.



### CLOSED END

This type of insert nut is ideal when a sealed end is needed to guarantee a watertight application.



## HEAD TYPES UNDER REQUEST



WITH WASHER



PLANE



OVAL



SQUARE



SPECIAL



TREBOL



SUPER LARGE



CYLINDRICAL INTERIOR



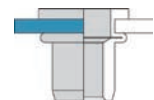
HEXAGONAL INTERIOR

## INSERT NUTS TYPES



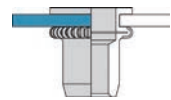
### CYLINDRICAL INSERT NUT

Especially designed to work with resistant materials. Particularly used in leveling work. Excellent solution to obtain a resistant thread in parts with a reduced thickness. Its installation can be incorporated at any stage of production.



### GROOVED INSERT NUT

Ideal for applications with thin metal sheets, tubes, extrusion or plastic. It resists frequent unscrewing. Improves its resistance to rotation once it has been set. Fast and high precision assembly.



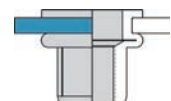
### HEXAGON INSERT NUT

Offers an exceptional mechanical resistance. Resistance to rotation and extraction in thin sheets. Fast and high precision assembly. Eliminates unscrewing.



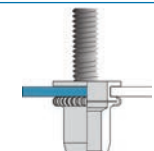
### HALF HEXAGON INSERT NUT

Exceptional mechanical resistance. Fast and high precision assembly. Ideal for applications with thin metal sheets, tubes, extrusion or plastic. The conical end of the body and the hexagonal shape allow for an easy insertion.



### GROOVED STUD NUT

Allows for a pre-installation of the piece to be screwed onto the male thread. Designed for use with applications with heavy parts or those where access is difficult. Used in air conditioning systems, electrical appliances and electronics. Improves the resistance to rotation.



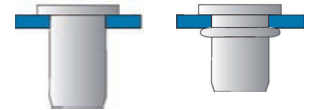
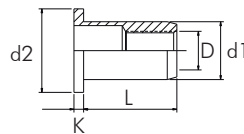
## SELECTION OF THE INSERT NUT

- Diameter of the head.** BRALO offer many different sizes ranging from M3 to M12. Head selected according to the base material.
- Sort of thread nut.** There are five types of BRALO Thread Nuts: cylindrical, grooved, hexagon, half-hexagon and grooved stud nut. Also, an option of open or closed end must be chosen. They also have diverse characteristics such as torque setting, strengths and materials.
- Range to assemble.** It is necessary to choose the nut that has the parameters within the range of the work to assemble.
- Corrosion resistance.** We shall attempt to break the contact between the two metals to reduce the corrosion, by using zincplatings, protective coatings or paintings, that prevent any contact between materials: Delta Seal, galvanised, anodised, zinc nickel, etc. (See page 13).

## STEEL

### CYLINDRICAL INSERT NUT Large head - Open end

■ Steel Zincplated A3K



D	E MIN. mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
M4	0,5 - 2,0	<b>9,50</b>	5,90	9,00	1,00	6,10	500	4.000	4400	8900	4,0	0301104006
	2,0 - 4,0	<b>12,25</b>					500	4.000				0301114006 *
M5	0,5 - 3,0	<b>12,00</b>	6,90	10,00	1,00	7,10	500	4.000	5300	9800	4,8	0301105007
	3,0 - 5,5	<b>15,00</b>					500	4.000				0301115007
	5,5 - 8,0	<b>18,00</b>					500	3.000				0301185007
M6	0,5 - 3,0	<b>14,50</b>	8,90	13,00	1,50	9,10	250	2.000	6500	19100	12,0	0301106009
	3,0 - 5,5	<b>16,50</b>					250	1.500				0301116009
	5,5 - 8,0	<b>21,50</b>					250	1.500				0301186009
M8	0,5 - 3,0	<b>16,50</b>	10,90	16,00	1,50	11,10	250	1.500	8350	29800	23,0	0301108011
	3,0 - 5,5	<b>18,50</b>					200	1.200				0301118011
	5,5 - 8,0	<b>22,50</b>					150	900				0301188011
	8,0 - 10,5	<b>25,50</b>					150	900				03011108011
M10	1,0 - 3,5	<b>17,50</b>	11,90	16,00	1,60	12,10	150	900	12000	34000	30,0	0301101012
M10	1,0 - 3,5	<b>19,50</b>	12,90	19,00	2,00	13,00	150	900	13600	39200	105,6	0301101013 *
	3,5 - 6,0	<b>21,50</b>						500				G301111013 *
	5,5 - 8,0	<b>27,00</b>						500				G301181013 *
M12	1,0 - 4,0	<b>25,00</b>	15,90	23,00	2,00	16,10		500	18000	>57800	54,0	G301101216 *

\* In these metrics we have insert nuts without grooves in the lower part of the head.

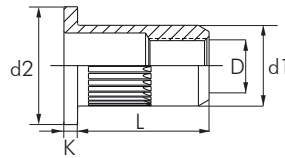
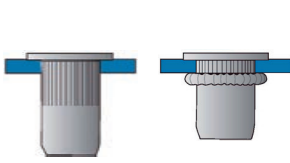











## GROOVED INSERT NUT Large head - Open end

# STEEL

■ Steel Zincplated A3K



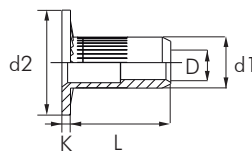
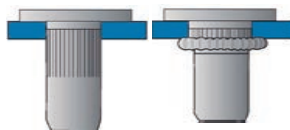
D	 MIN. mm MÁX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE			
							 Inner	 Outer							
<b>M3</b>	0,25 - 2,50	<b>10,50</b>	4,90	8,00	1,00	5,10	500	4.000	2400	4100	2,2	0371103005			
<b>M4</b>	0,50 - 2,00	<b>9,50</b>	5,90	9,00	1,00	6,10	500	4.000	3900	7900	4,5	0371104006			
	2,00 - 4,00	<b>12,25</b>											500	4.000	0371114006
<b>M5</b>	0,50 - 3,00	<b>12,00</b>	6,90	10,00	1,00	7,10	500	4.000	5100	11300	7,5	0371105007			
	3,00 - 5,50	<b>15,00</b>											500	4.000	0371115007
<b>M6</b>	0,50 - 3,00	<b>14,50</b>	8,90	13,00	1,50	9,10	250	2.000	6500	20600	17,8	0371106009			
	3,00 - 5,50	<b>16,50</b>											250	1.500	0371116009
	0,50 - 2,00	<b>13,00</b>											250	2.000	0371136009
<b>M8</b>	0,50 - 3,00	<b>16,50</b>	10,90	16,00	1,50	11,10	250	1.500	8400	29800	34,5	0371108011			
	3,00 - 5,50	<b>18,50</b>											200	1.200	0371118011
<b>M10</b>	1,00 - 3,50	<b>19,50</b>	12,90	19,00	2,00	13,10	150	900	11000	43300	60,0	0371101013			
	3,50 - 6,00	<b>21,50</b>											100	600	0371111013
	2,40 - 4,00	<b>19,50</b>												1.000	G371121013
<b>M12</b>	1,00 - 4,00	<b>25,00</b>	15,90	23,00	2,00	16,10		500	14700	47700	161,5	G371101216			








STEEL

## GROOVED INSERT NUT Extra large head - Open end

# STEEL

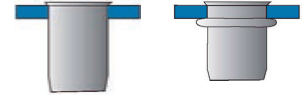
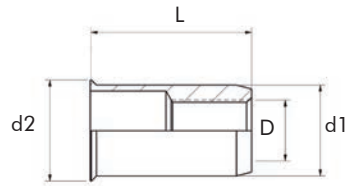
■ Steel Zincplated P9B








D	 MIN. mm MÁX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							 Inner	 Outer				
<b>M5</b>	3,0 - 5,0	<b>17,70</b>	9,00	18,50	1,50	9,10		1.000	8700	15300	13,0	G371705009T1
<b>M6</b>	2,4 - 4,5	<b>17,70</b>	8,95	18,30	1,50	9,10		1.000	8700	19100	13,0	G371706009T








■ Steel Zincplated A3K



D	 E MIN. mm MÁX	L Nominal mm	d1 Ø mm	d2 Ø mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
						Inner	Outer				
<b>M3</b>	0,5 - 2,0	<b>8,70</b>	4,70	5,30	4,80	1.000	8.000	1700	4400	1,2	0301203005
<b>M4</b>	0,5 - 2,0	<b>10,40</b>	6,30	6,70	6,40	500	4.000	3400	7200	1,5	0301204006
<b>M5</b>	0,5 - 3,0	<b>11,50</b>	7,10	7,90	7,20	500	4.000	5300	9800	5,7	0301205007
<b>M6</b>	0,5 - 3,0	<b>14,50</b>	9,50	10,60	9,60	500	3.000	6500	19100	6,5	0301206009
<b>M8</b>	0,5 - 3,0	<b>16,00</b>	10,50	11,60	10,60	250	1.500	8350	29800	8,6	0301208011

For drills in inches.

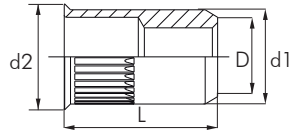
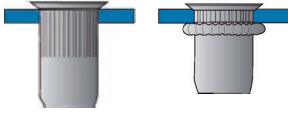
D	 E MIN. mm MÁX	L Nominal mm	d1 Ø mm	d2 Ø mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
						Inner	Outer				
<b>M4</b>	0,5 - 2,0	<b>10,00</b>	5,90	7,00	6,10	500	4.000	3.400	7200	1,5	0301204005
<b>M5</b>	0,5 - 3,0	<b>12,00</b>	6,90	8,00	7,10	500	4.000	5.300	9800	5,7	0301205006
<b>M6</b>	0,5 - 3,0	<b>15,00</b>	8,90	10,00	9,10	500	3.000	6.500	19100	6,5	0301206008
<b>M8</b>	0,5 - 3,0	<b>16,00</b>	10,90	12,00	11,10	250	1.500	8.350	29800	8,6	0301208010








For drills in mm.

## GROOVED INSERT NUT Reduced head - Open end

# STEEL

■ Steel Zincplated A3K



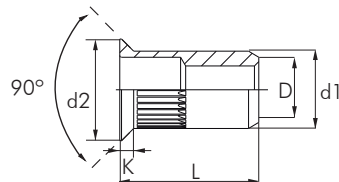
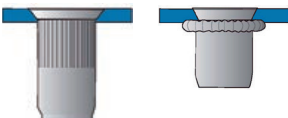
D	 E MIN mm MÁX	L Nominal mm	d1 Ø mm	d2 Ø mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
						 Inner	 Outer				
<b>M3</b>	0,5 - 2,0	<b>8,70</b>	4,90		5,10	1.000	8.000				0371203005
<b>M4</b>	0,5 - 2,0	<b>10,40</b>	5,90	7,00	6,10	500	4.000	3900	7900	2,9	0371204006
<b>M5</b>	0,5 - 3,0	<b>11,50</b>	6,90	8,00	7,10	500	4.000	5800	9800	6,0	0371205007
<b>M6</b>	0,5 - 3,0 3,0 - 5,5	<b>14,50</b> <b>16,50</b>	8,90	10,00	9,10	500 500	3.000 3.000	5800	16500	10,1	0371206009 0371216009
<b>M8</b>	0,5 - 3,0 3,0 - 5,5	<b>16,80</b> <b>18,50</b>	10,90	12,00	11,10	250 250	1.500 1.500	8400	29800	15,0	0371208011 0371218011
<b>M10</b>	0,7 - 3,5 3,0 - 5,5	<b>21,00</b> <b>23,50</b>	12,90	14,00	13,10	150	900	11000	43300	60,0	0371201013 G371211013
<b>M12</b>	1,0 - 4,0	<b>24,20</b>	15,90	17,00	16,10		500	14700	47700	161,5	G371201216








STEEL

## GROOVED INSERT NUT Countersunk head - Open end

# STEEL

■ Steel Zincplated A3K

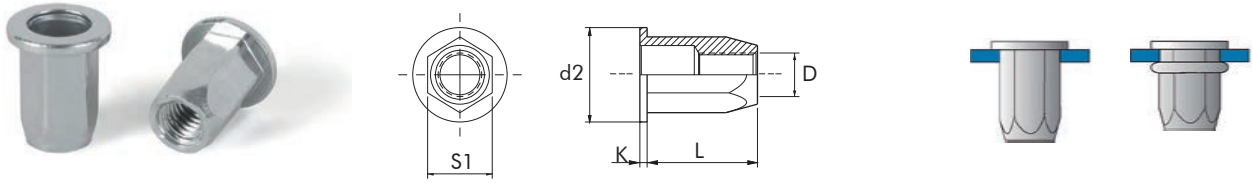


D	 E MIN mm MÁX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							 Inner	 Outer				
<b>M4</b>	1,50 - 3,00	<b>11,00</b>	5,90	8,50	1,50	6,10	500	4.000	3900	7900	3,3	0371304006
<b>M5</b>	1,50 - 4,00	<b>13,00</b>	6,90	10,00	1,50	7,10	500	4.000	5800	9800	6,5	0371305007
<b>M6</b>	1,50 - 4,00	<b>16,00</b>	8,90	12,00	1,50	9,10	250	2.000	7100	19600	20,0	0371306009
<b>M8</b>	1,50 - 4,00 2,00 - 4,50	<b>18,50</b> <b>18,50</b>	10,90	13,50	1,50	11,10	250 250	1.500 1.500	8400	29800	22,0	0371308011 0371328011
<b>M10</b>	1,50 - 4,50	<b>22,00</b>	12,90	16,00	1,50	13,10	150	900	11000	43300	60,0	0371301013

# STEEL

## HEXAGON INSERT NUT Large head - Open end

■ Steel Zincplated A3K



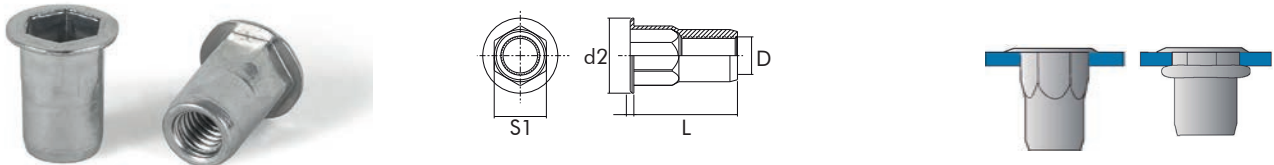
D	E MIN. mm MAX	L Nominal mm	S1 Ø mm	d2 Ø mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
<b>M4</b>	0,5 - 2,0	<b>10,00</b>	5,90	9,00	1,00	6,10	500	4.000	3400	7900	4,8	0311104006
<b>M5</b>	0,5 - 3,0	<b>13,00</b>	6,90	10,00	1,00	7,10	500	4.000	4900	9800	6,5	0311105007
<b>M6</b>	0,5 - 3,0	<b>14,20</b>	8,90	13,00	1,50	9,10	250	2.000	7100	19100	22,0	0311106009
<b>M8</b>	0,5 - 3,0 3,0 - 5,5	<b>16,50</b> <b>19,50</b>	10,90	16,00	1,50	11,10	250 200	1.500 1.200	9600	29800	40,0	0311108011 0311118011
<b>M10</b>	1,0 - 3,5	<b>19,50</b>	12,90	19,00	2,00	13,10	150	900	12600	43000	88,0	0311101013
<b>M12</b>	1,0 - 4,0	<b>25,00</b>	15,90	23,00	2,00	16,10		500	19100	>57800	115,0	0311101216

STEEL

# STEEL

## HALF HEXAGON INSERT NUT Plane head - Open end

■ Steel Zincplated A3K



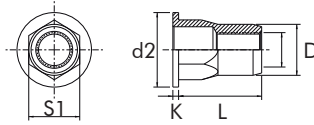
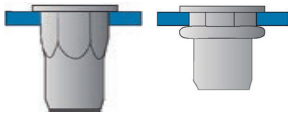
D	E MIN. mm MAX	L Nominal mm	S1 Ø mm	d2 Ø mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
						Inner	Outer				
<b>M4</b>	0,5 - 2,0	<b>10,50</b>	6,30	9,50	6,10	500	4.000	2800	7900	4,8	0331504006
<b>M5</b>	0,5 - 3,3	<b>11,80</b>	7,10	9,90	7,20	500	4.000	5300	9800	9,4	0331505007
<b>M6</b>	0,7 - 4,2	<b>14,90</b>	9,50	13,00	9,60	500	3.000	7100	19000	22,0	0331506009
<b>M8</b>	0,7 - 3,8	<b>17,40</b>	12,65	16,65	12,70						0331508012
<b>M10</b>	0,7 - 3,8	<b>17,40</b>	12,65	16,65	12,70						0331501013
<b>M12</b>	1,6 - 5,1	<b>29,20</b>	17,50	21,90	17,50						0331501216

# CYLINDRICAL HEXAGON INSERT NUT

Large head - Open end

# STEEL

■ Steel Zincplated A3K



D	E MIN. mm MAX	L Nominal mm	S1 Ø mm	d2 Ø mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
<b>M4</b>	0,5 - 2,5	<b>9,00</b>	5,95	9,00	0,90	6,10	500	4.000	3400	7900	4,8	0334104006
<b>M5</b>	0,5 - 3,0	<b>12,50</b>	6,95	10,00	1,00	7,10	500	4.000	7000	9800	6,5	0334105007
<b>M6</b>	0,5 - 3,0	<b>14,50</b>	8,95	13,00	1,50	9,10	250	2.000	7100	19100	22,0	0334106009
<b>M10</b>	0,8 - 3,0	<b>20,00</b>	12,95	19,00	2,00	13,10	150	900	13400	36000	60,0	0334101013

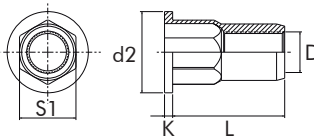
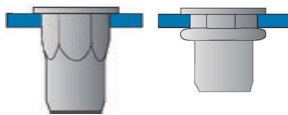
STEEL

# HALF HEXAGON INSERT NUT

Large head - Open end

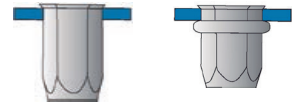
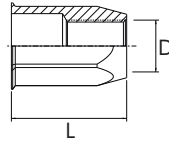
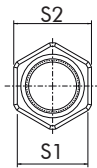
# STEEL








■ Steel Zincplated A3K



D	E MIN. mm MAX	L Nominal mm	S1 Ø mm	d2 Ø mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
<b>M6</b>	0,5 - 3,0	<b>14,50</b>	8,95	13,00	1,50	9,10	250	2.000	7100	19100	22,0	0331106009
<b>M8</b>	0,5 - 3,0	<b>16,50</b>	10,95	16,00	1,50	11,10	250	1.500	9600	29800	40,0	0331108011
<b>M12</b>	1,0 - 4,0	<b>25,00</b>	15,95	23,00	2,00	16,10		500	17200	44000	115,0	0331101216

■ Steel Zincplated A3K



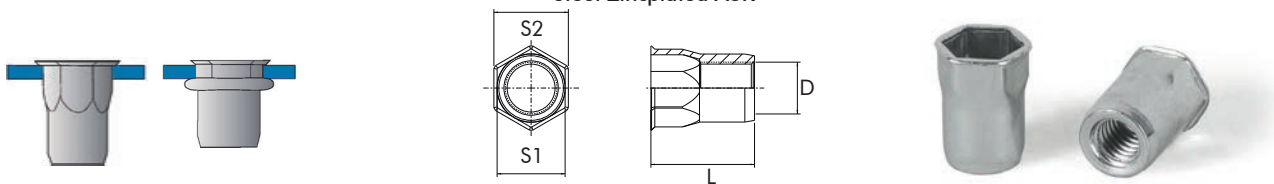
D	 E MIN. mm MAX	L Nominal mm	S1 Ø mm	S2 Ø mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
						 Inner	 Outer				
<b>M4</b>	0,5 - 2,0	<b>11,00</b>	5,90	6,60	6,10	500	4.000	3400	7900	4,1	0311204006
<b>M5</b>	0,5 - 3,0	<b>14,00</b>	6,90	8,00	7,10	500	4.000	4900	9800	6,5	0311205007
	3,0 - 5,5	<b>16,50</b>									
<b>M6</b>	0,5 - 3,0	<b>16,00</b>	8,90	9,80	9,10	500	3.000	7500	19100	12,0	0311206009
	3,0 - 5,5	<b>18,00</b>					500				
<b>M8</b>	0,5 - 3,0	<b>18,00</b>	10,95	11,80	11,10	250	1.500	8000	27600	36,3	0311208011
	3,0 - 5,5	<b>20,50</b>					1.000				
<b>M10</b>	0,5 - 3,5	<b>22,00</b>	12,95	14,00	13,10	150	900	10500	42500	70,0	0311201013
	3,5 - 6,0	<b>24,00</b>					500				
<b>M12</b>	1,0 - 4,0	<b>25,00</b>	15,95	17,50	16,10	100	600	21500	>57800	93,0	0311201216
	4,0 - 8,0	<b>28,00</b>					300				

# HALF HEXAGON INSERT NUT

## Reduced head - Open end

# STEEL

■ Steel Zincoated A3K



D	E MIN. mm MÁX	L Nominal mm	S1 Ø mm	S2 Ø mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
						Inner	Outer				
<b>M4</b>	0,5 - 2,5	<b>10,50</b>	6,35	7,00	6,40	500	4.000	2900	7900	4,6	0331204006
<b>M5</b>	0,7 - 3,0	<b>11,70</b>	7,10	7,80	7,20	500	4.000	3600	9800	6,2	0331205007
<b>M6</b>	0,5 - 3,3	<b>14,50</b>	9,50	10,60	9,60	500	3.000	4700	15000	15,0	0331206009
<b>M8</b>	0,5 - 3,5	<b>16,00</b>	10,50	11,50	10,60	250	1.500	8000	27600	36,3	0331208011

For drills in inches.

D	E MIN. mm MÁX	L Nominal mm	S1 Ø mm	S2 Ø mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
						Inner	Outer				
<b>M4</b>	0,5 - 2,5	<b>10,50</b>	5,95	6,80	6,10	500	4.000	2600	7500	5,0	0331204005
<b>M5</b>	0,5 - 3,0	<b>11,70</b>	6,90	8,00	7,10	500	4.000	3600	9800	6,2	0331205006
<b>M6</b>	0,5 - 3,3	<b>14,50</b>	8,95	10,00	9,10	500	3.000	3400	19600	15,5	0331206008
<b>M8</b>	0,5 - 3,5	<b>16,50</b>	10,95	12,00	11,10	250	1.500	5400	25000	45,0	0331208010

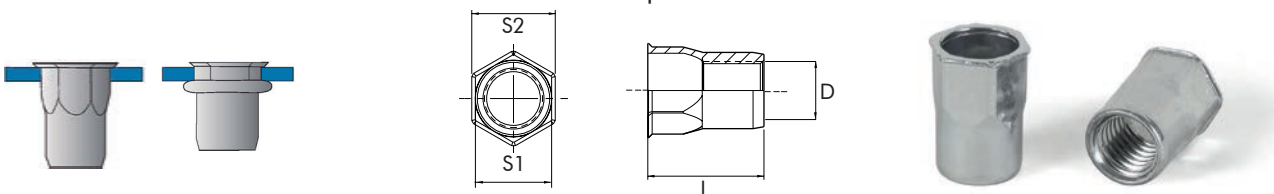
For drills in mm.

# CYLINDRICAL HEXAGON INSERT NUT

## Reduced head - Open end

# STEEL

■ Steel Zincoated A3K

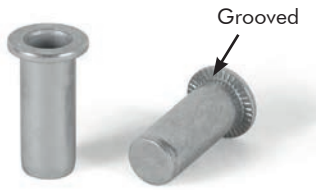


D	E MIN. mm MÁX	L Nominal mm	S1 Ø mm	S2 Ø mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
						Inner	Outer				
<b>M6</b>	0,5 - 3,0	<b>15,00</b>	8,95	10,00	9,10	500	3.000	7100	18700	20,0	0334206009
	3,0 - 5,5	<b>17,50</b>				500	3.000				0334216009
<b>M8</b>	3,0 - 5,5	<b>20,00</b>	10,95	12,00	11,00	250	1.500	8800	28000	32,0	0334218011
<b>M10</b>	1,0 - 3,5	<b>20,00</b>	12,95	14,00	13,00	150	900	13200	33400	52,0	0334201013
	3,5 - 6,0	<b>24,00</b>				150	900				0334211013

Black prices: Pieces available for immediate delivery.

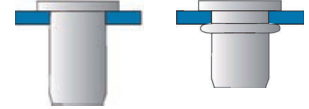
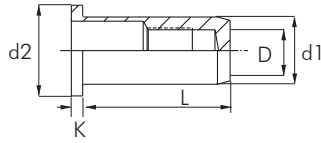
Red prices: Under request, consult minimum quantity.

STEEL



Grooved

■ Steel Zincplated A3K



D	E MIN. mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
<b>M4</b>	0,5 - 2,5	<b>15,70</b>	5,95	9,00	0,80	6,10	500	4.000	4400	7900	3,0	0301404006
<b>M5</b>	0,5 - 2,5	<b>18,00</b>	6,90	10,00	1,00	7,10	500	3.000	5300	9800	7,0	0301405007 *
<b>M6</b>	0,5 - 3,0	<b>21,50</b>	8,90	12,80	1,50	9,10	250	1.500	6500	19100	12,0	0301406009 *
<b>M8</b>	0,5 - 3,0	<b>23,50</b>	10,90	16,00	1,50	11,10	150	900	8350	29800	23,0	0301408011
<b>M10</b>	1,0 - 4,0	<b>31,00</b>	12,90	19,00	2,00	13,10	50	300	13600	43300	35,1	0301401013

Note: This insert nut has grooves under the head.

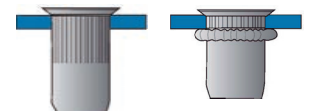
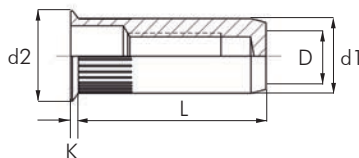


Without groove

Note: The M4, M8 and M10 insert nut hasn't got grooves under the head.



■ Steel Zincplated A3K



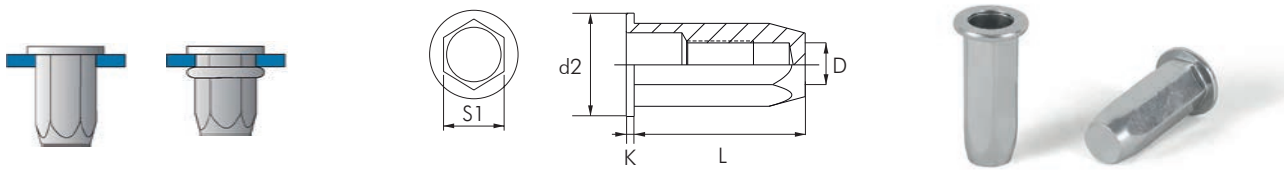
D	E MIN. mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
<b>M4</b>	0,5 - 2,5	<b>15,00</b>	5,90	7,00	0,50	6,10	500	4.000	3000	7000	2,9	0375204006
<b>M5</b>	0,5 - 3,0	<b>18,00</b>	6,90	8,00	0,50	7,10	500	3.000	5800	9800	6,0	0375205007
<b>M6</b>	0,5 - 3,0	<b>21,50</b>	8,90	10,00	0,50	9,10	250	1.500	7100	19000	10,5	0375206009
<b>M8</b>	0,5 - 3,0	<b>22,50</b>	10,90	12,00	0,50	11,10	250	1.500	8400	30000	15,5	0375208011










# HEXAGON INSERT NUT Large head - Closed end

# STEEL

■ Steel Zincplated A3K



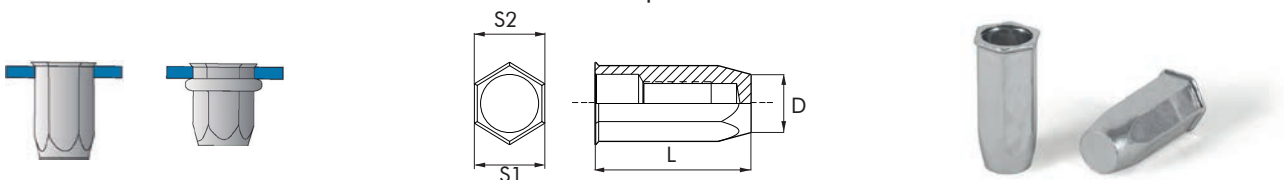
D	 E MIN. mm MÁX	L Nominal mm	S1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							 Inner	 Outer				
<b>M4</b>	0,5 - 2,5	<b>15,00</b>	5,95	9,00	0,90	6,10	500	4.000	3400	7900	4,8	0311404006
<b>M5</b>	0,5 - 3,0	<b>19,00</b>	6,95	10,00	1,00	7,10	500	3.000	4900	9300	6,8	0311405007
<b>M6</b>	0,5 - 3,0	<b>21,50</b>	8,95	13,00	1,50	9,10	250	1.500	6300	19100	17,0	0311406009
<b>M8</b>	0,5 - 3,0	<b>24,50</b>	10,95	16,00	1,50	11,10	150	900	9600	29800	40,0	0311408011
<b>M10</b>	1,0 - 3,5	<b>31,00</b>	12,95	19,00	2,00	13,10		500	12600	43000	70,0	G311401013








STEEL

# HEXAGON INSERT NUT Reduced head - Closed end

# STEEL

■ Steel Zincplated A3K

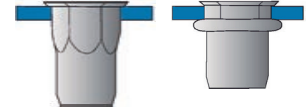
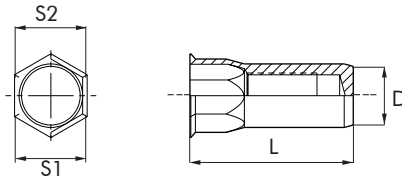









D	 E MIN. mm MÁX	L Nominal mm	S1 Ø mm	S2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							 Inner	 Outer				
<b>M4</b>	0,5 - 2,0	<b>16,00</b>	5,95	7,00	0,50	6,10	500	4.000				0311704006
<b>M5</b>	0,5 - 2,0	<b>20,00</b>	6,95	8,00	0,50	7,10	500	3.000	4900	9800	8,0	0311705007
<b>M6</b>	0,5 - 3,0	<b>22,00</b>	8,95	10,00	0,50	9,10	250	1.500	7100	19100	12,0	0311706009
<b>M8</b>	0,5 - 3,5	<b>25,50</b>	10,95	12,00	0,50	11,10	150	900				0311708011

# STEEL

## HALF HEXAGON INSERT NUT Reduced head - Closed end

■ Steel Zincoated A3K



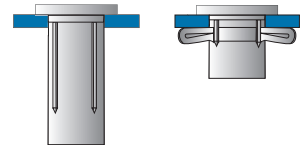
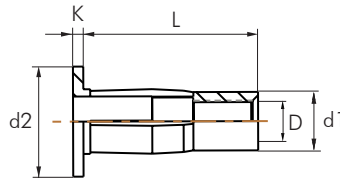
D	 E MIN. mm MÁX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							 Inner	 Outer				
<b>M4</b>	0,5 - 2,0	<b>16,30</b>	5,90	7,00	0,50	6,10	500	4.000	2800	7900	4,6	0331704006
<b>M5</b>	0,5 - 3,0	<b>18,30</b>	6,90	8,00	0,50	7,10	500	4.000	4300	9800	6,2	0331705007
<b>M6</b>	0,5 - 3,0	<b>21,30</b>	8,90	10,00	0,60	9,10	250	1.500	7100	19100	12,0	0331706009
<b>M8</b>	0,5 - 3,5	<b>23,80</b>	10,90	12,00	0,60	11,10	250	1.500	6900	28200	30,0	0331708011





STEEL

# STEEL

## TREBOL INSERT NUT Large head - Open end

■ Steel Zincoated A3K



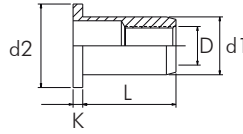
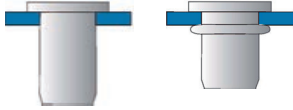
D	 E MIN. mm MÁX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		REFERENCE
							 Inner	 Outer	
<b>M5</b>	0,5 - 4,5	<b>21,00</b>	7,30	13,00	1,00	7,50		2.000	G301605006
<b>M6</b>	0,5 - 7,1	<b>25,50</b>	8,50	16,00	1,50	8,80		1.000	G301606008
<b>M8</b>	0,5 - 7,1	<b>29,00</b>	11,00	19,00	1,50	11,20		500	G301608010








Black prices: Pieces available for immediate delivery.  
Red prices: Under request, consult minimum quantity.

CYLINDRICAL INSERT NUT  
Large head - Open end

STAINLESS STEEL A2

■ Stainless steel AISI 304



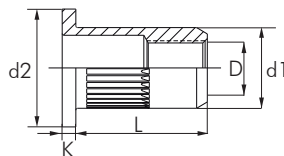
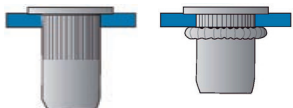
D	 E MIN, mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							 Inner	 Outer				
<b>M4</b>	0,5 - 2,0	<b>9,50</b>	5,90	9,00	1,00	6,10	500	4.000	4900	10000	3,1	0303104006
<b>M5</b>	0,5 - 3,0	<b>12,00</b>	6,90	10,00	1,00	7,10	500	4.000	6000	15800	6,9	0303105007
<b>M6</b>	0,5 - 3,0	<b>14,50</b>	8,90	13,00	1,50	9,10	250	2.000	9000	21600	25,0	0303106009
<b>M8</b>	0,5 - 3,0	<b>16,50</b>	10,90	15,00	1,50	11,10	250	1.500	12350	36300	40,0	0303108011








STAINLESS  
STEEL A2

GROOVED INSERT NUT  
Large head - Open end

STAINLESS STEEL A2

■ Stainless steel AISI 304



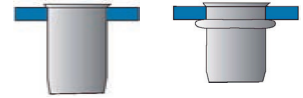
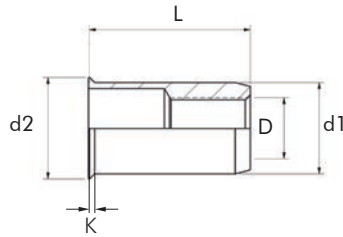
D	 E MIN, mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							 Inner	 Outer				
<b>M4</b>	0,5 - 2,0	<b>9,50</b>	5,90	9,00	1,00	6,10	500	4.000	5.600	9.100	6,4	0373104006
<b>M5</b>	0,5 - 3,0	<b>12,00</b>	6,90	10,00	1,00	7,10	500	4.000	6800	15800	8,4	0373105007
	3,0 - 4,5	<b>13,50</b>					500	4.000				0373115007
<b>M6</b>	0,5 - 3,0	<b>14,50</b>	8,90	13,00	1,50	9,10	250	2.000	9000	23800	26,7	0373106009
<b>M8</b>	0,5 - 3,0	<b>16,50</b>	10,90	16,00	1,50	11,10	250	1.500	10600	40600	62,5	0373108011
	3,0 - 5,5	<b>18,50</b>					200	1.200				0373118011
<b>M10</b>	1,0 - 3,5	<b>19,00</b>	12,90	17,00	2,00	13,10	150	900	11300	>49000	111,7	0373101013






# STAINLESS STEEL A2

## CYLINDRICAL INSERT NUT Reduced head - Open end



■ Stainless steel AISI 304



D	 E MIN mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							Inner	Outer				
<b>M4</b>	0,5 - 2,0	<b>11,00</b>	5,90	7,00	0,50	6,10	500	4.000	4900	10000	2,2	0303204006
<b>M5</b>	0,5 - 3,0	<b>12,00</b>	6,90	8,00	0,50	7,10	500	4.000	6000	15800	3,2	0303205007
<b>M6</b>	0,5 - 3,0	<b>14,00</b>	8,90	10,00	0,50	9,10	500	3.000	9000	21600	5,8	0303206009
<b>M8</b>	0,5 - 3,0	<b>16,00</b>	10,90	12,00	0,50	11,10	250	1.500	12350	36200	15,6	0303208011

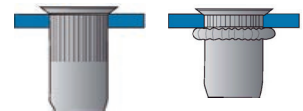
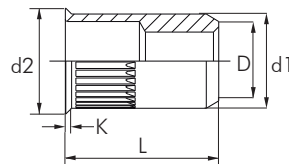
STAINLESS STEEL A2






# STAINLESS STEEL A2

## GROOVED INSERT NUT Reduced head - Open end



■ Stainless steel AISI 304

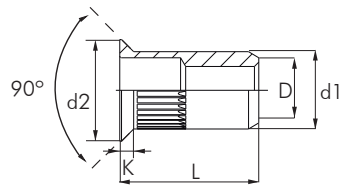
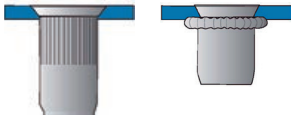







D	 E MIN mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							Inner	Outer				
<b>M3</b>	0,5 - 2,0	<b>9,00</b>	4,90	6,00	0,50	5,10	500	4.000	2700	3100	2,3	0373203005
<b>M4</b>	0,5 - 2,0	<b>10,40</b>	5,90	7,00	0,50	6,10	500	4.000	4800	10300	5,5	0373204006
<b>M5</b>	0,5 - 3,0	<b>11,50</b>	6,90	8,00	0,60	7,10	500	4.000	7300	14300	8,6	0373205007
<b>M6</b>	0,5 - 3,0	<b>14,50</b>	8,90	10,00	0,70	9,10	500	3.000	9600	23700	14,7	0373206009
<b>M8</b>	0,5 - 3,0	<b>16,50</b>	10,90	12,00	0,70	11,10	250	1.500	11300	38600	20,0	0373208011
<b>M10</b>	1,0 - 3,5	<b>19,00</b>	12,90	14,30	0,70	13,10	150	900	13400	>49000	27,5	0373201013

GROOVED INSERT NUT  
Countersunk head - Open end

STAINLESS STEEL A2

■ Stainless steel AISI 304



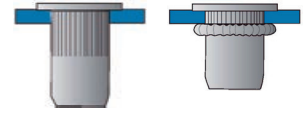
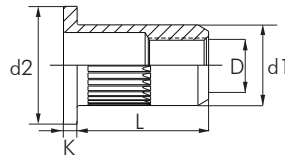
D	 E MIN mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							Inner	Outer				
<b>M4</b>	1,5 - 3,0	<b>11,00</b>	5,90	9,00	1,50	6,10	500	4.000	4900	9100	6,4	0373304006
<b>M5</b>	1,5 - 4,0	<b>13,00</b>	6,90	9,60	1,50	7,10	500	4.000	6800	12800	8,4	0373305007
<b>M6</b>	1,5 - 4,0	<b>16,00</b>	8,90	11,70	1,60	9,10	250	2.000	9000	21600	26,7	0373306009
<b>M8</b>	1,5 - 4,0	<b>18,50</b>	10,90	13,50	1,60	11,10	250	1.500	12300	36300	34,5	0373308011

STAINLESS  
STEEL A2

# STAINLESS STEEL A4

## GROOVED INSERT NUT Large head - Open end

■ Stainless steel AISI 316



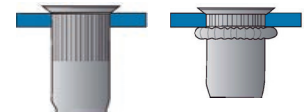
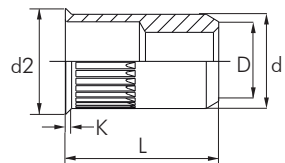
D	E MIN mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
<b>M4</b>	0,5 - 2,5	<b>11,00</b>	5,90	9,00	1,00	6,10	500	4.000				0373104006A4
<b>M5</b>	0,5 - 3,0	<b>12,00</b>	6,90	10,00	1,00	7,10	500	4.000				0373105007A4
<b>M6</b>	0,5 - 3,0	<b>14,00</b>	8,90	14,00	1,50	9,10	250	2.000				0373106009A4
<b>M8</b>	0,5 - 3,0	<b>16,00</b>	10,90	15,00	1,50	11,10	250	1.500				0373108011A4

STAINLESS  
STEEL A4

# STAINLESS STEEL A4

## GROOVED INSERT NUT Reduced head - Open end

■ Stainless steel AISI 316



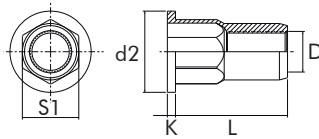
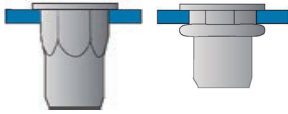
D	E MIN mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
<b>M3</b>	0,5 - 2,0	<b>9,00</b>	4,90	6,00	0,50	5,10	500	4.000				0373203005A4
<b>M4</b>	0,5 - 2,5	<b>11,00</b>	5,90	7,00	0,50	6,10	500	4.000				0373204006A4
<b>M5</b>	0,5 - 3,0	<b>12,00</b>	6,90	8,00	0,50	7,10	500	4.000				0373205007A4
<b>M6</b>	0,5 - 3,0	<b>14,00</b>	8,90	10,00	0,50	9,10	500	3.000				0373206009A4
<b>M8</b>	0,5 - 3,0	<b>16,00</b>	10,90	12,00	0,50	11,10	250	1.500				0373208011A4
<b>M10</b>	1,0 - 3,5	<b>19,00</b>	12,90	14,30	0,50	13,10	150	900				0373201013A4

# HALF HEXAGON INSERT NUT

Large head - Open end

# STAINLESS STEEL A2

■ Stainless steel AISI 304



D	E MIN mm MÁX	L Nominal mm	S1 Ø mm	d2 Ø mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
<b>M4</b>	0,5 - 2,5	<b>11,00</b>	5,90	9,00	1,00	6,10						0333104006
<b>M5</b>	0,5 - 3,0	<b>12,00</b>	6,90	10,00	1,00	7,10	500	4.000	3300	13200	9,1	0333105007
<b>M6</b>	0,5 - 3,0	<b>14,00</b>	8,90	12,00	1,50	9,10	250	2.000	7700	21600	19,7	0333106009
<b>M8</b>	0,5 - 3,0	<b>16,00</b>	10,90	15,00	1,50	11,10	250	1.500	11200	36300	26,5	0333108011
<b>M10</b>	1,5 - 3,5	<b>19,00</b>	13,00	16,00	2,00	13,10						0333101013

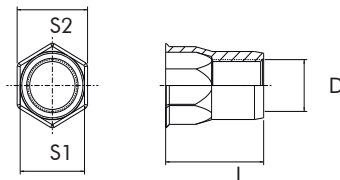
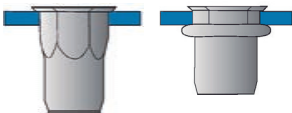
STAINLESS  
STEEL A2

# HALF HEXAGON INSERT NUT

Reduced head - Open end

# STAINLESS STEEL A2

■ Stainless steel AISI 304

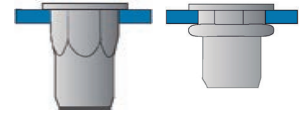
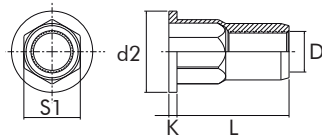









D	E MIN mm MÁX	L Nominal mm	S1 Ø mm	S2 Ø mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
<b>M4</b>	0,5 - 2,5	<b>11,00</b>	5,90	7,00	0,50	6,10	500	4.000	2900	7900	4,6	0333204006
<b>M5</b>	0,5 - 3,0	<b>12,00</b>	6,90	8,00	0,50	7,10	500	4.000	5000	15800	8,8	0333205007
<b>M6</b>	0,5 - 3,0	<b>14,00</b>	8,90	10,00	0,60	9,10	500	3.000	7700	21600	15,5	0333206009
<b>M8</b>	0,5 - 3,0	<b>16,00</b>	10,90	12,00	0,60	11,10	250	1.500	11200	36300	24,5	0333208011
<b>M10</b>	1,0 - 3,5	<b>19,00</b>	12,90	14,20	0,85	13,10	150	900	11400	47800	91,6	0333201013

# STAINLESS STEEL A4

## HALF HEXAGON INSERT NUT Large head - Open end

■ Stainless steel AISI 316



D	 E MIN, mm MAX	L Nominal mm	S1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							 Inner	 Outer				
<b>M4</b>	0,5 - 2,5	<b>11,00</b>	5,90	7,00	0,50	6,10	500	4.000				0333104006A4
<b>M5</b>	0,5 - 3,0	<b>12,00</b>	6,90	8,00	0,50	7,10	500	4.000				0333105007A4
<b>M6</b>	0,5 - 3,0	<b>14,00</b>	8,90	10,00	0,50	9,10	250	2.000				0333106009A4
<b>M8</b>	0,5 - 3,0	<b>16,00</b>	10,90	12,00	0,50	11,10	250	1.500				0333108011A4

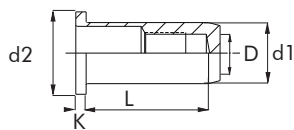
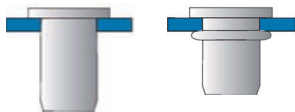
STAINLESS  
STEEL A4










CYLINDRICAL INSERT NUT  
Large head - Closed end

STAINLESS STEEL A2

■ Stainless steel AISI 304



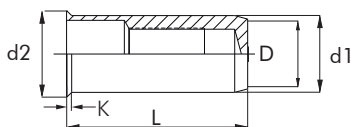
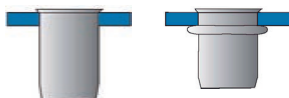
D	 E MIN. mm MÁX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							 Inner	 Outer				
<b>M4</b>	0,5 - 2,5	<b>16,00</b>	5,90	9,00	1,00	6,10	500	4.000	4900	10000	2,2	0303404006
<b>M5</b>	0,5 - 3,0	<b>18,00</b>	6,90	10,00	1,00	7,10	500	3.000	6000	15800	3,2	0303405007
<b>M6</b>	0,5 - 3,0	<b>21,00</b>	8,90	12,00	1,50	9,10	250	1.500	9000	21600	8,6	0303406009
<b>M8</b>	0,5 - 3,0	<b>23,90</b>	10,90	14,00	1,50	11,10	150	900	12350	36300	19,3	0303408011








STAINLESS  
STEEL A2

CYLINDRICAL INSERT NUT  
Reduced head - Closed end

STAINLESS STEEL A2

■ Stainless steel AISI 304

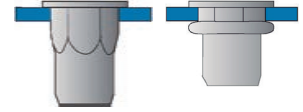
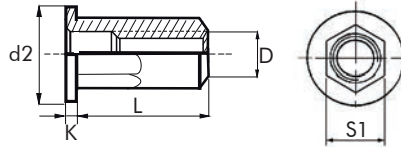









D	 E MIN. mm MÁX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							 Inner	 Outer				
<b>M4</b>	0,5 - 3,0	<b>16,00</b>	5,90	7,00	0,50	6,10	500	4.000	4900	10000	2,2	0303704006
<b>M5</b>	0,5 - 3,0	<b>18,00</b>	6,90	8,00	0,50	7,10	250	3.000	7000	13000	2,5	0303705007
<b>M6</b>	0,5 - 3,0	<b>21,00</b>	8,90	10,00	0,50	9,10	250	1.500	8500	24300	8,6	0303706009
<b>M8</b>	0,5 - 3,0	<b>23,50</b>	10,90	12,00	0,50	11,10	250	1.500	12350	36300	15,6	0303708011

# STAINLESS STEEL A2

## HALF HEXAGON INSERT NUT Large head - Closed end

■ Stainless steel AISI 304



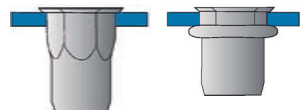
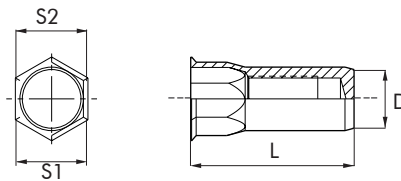
D	 E MIN. mm MÁX	L Nominal mm	S1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							 Inner	 Outer				
<b>M4</b>	0,5 - 3,0	<b>16,00</b>	5,90	9,00	1,00	6,10						0333404006
<b>M5</b>	0,5 - 3,0	<b>18,00</b>	6,90	10,00	1,00	7,10	500	4.000	7200	15800	9,1	0333405007
<b>M6</b>	0,5 - 3,0	<b>21,00</b>	8,90	12,00	1,50	9,10	250	1.500	9000	21600	19,7	0333406009
<b>M8</b>	0,5 - 3,0	<b>23,50</b>	10,90	14,00	1,50	11,10	200	1.200	11200	36300	26,5	0333408011








STAINLESS STEEL A2

# STAINLESS STEEL A2

## HALF HEXAGON INSERT NUT Reduced head - Closed end

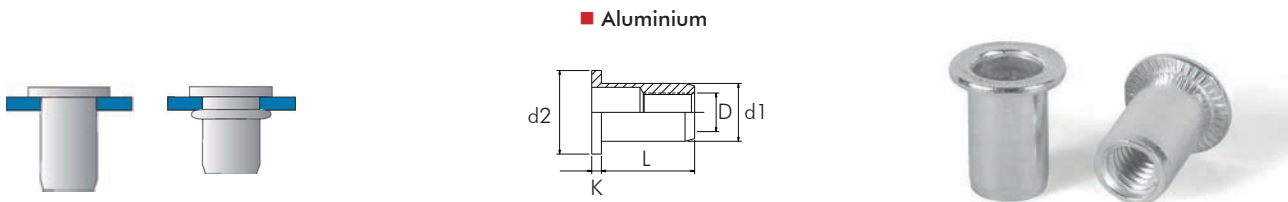
■ Stainless steel 304



D	 E MIN. mm MÁX	L Nominal mm	S1 Ø mm	S2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							 Inner	 Outer				
<b>M4</b>	0,5 - 3,0	<b>16,00</b>	5,90	7,00	0,50	6,10	500	4.000	5600	10000	4,9	0333704006
<b>M5</b>	0,5 - 3,0	<b>18,00</b>	6,90	8,00	0,50	7,10	500	4.000	7200	12000	8,8	0333705007
<b>M6</b>	0,5 - 3,0	<b>21,00</b>	8,90	10,00	0,50	9,10	250	1.500	9000	21600	15,5	0333706009
<b>M8</b>	0,5 - 3,0	<b>23,50</b>	10,90	12,00	0,50	11,10	200	1.200	11200	36300	26,5	0333708011

## CYLINDRICAL INSERT NUT Large head - Open end

# ALUMINIUM

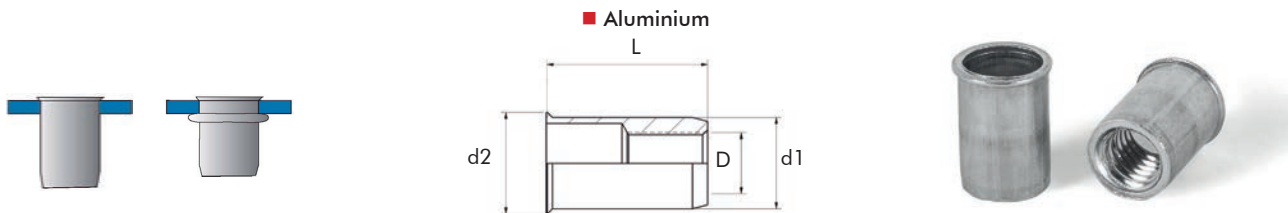


D	E MIN. mm MÁX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
<b>M4</b>	0,5 - 2,0	<b>9,50</b>	5,90	9,00	1,00	6,10	500	4.000	3400	4300	2,0	0302104006
<b>M5</b>	0,5 - 3,0	<b>12,00</b>	6,90	10,00	1,00	7,10	500	4.000	4400	8300	5,5	0302105007
	3,0 - 5,5	<b>15,00</b>										
<b>M6</b>	0,5 - 3,0	<b>14,50</b>	8,90	13,00	1,50	9,10	250	2.000	6250	10500	9,0	0302106009
	3,0 - 5,5	<b>16,50</b>										
<b>M8</b>	0,5 - 3,0	<b>16,50</b>	10,90	16,00	1,50	11,10	250	1.500	4600	15400	14,0	0302108011
	3,0 - 5,5	<b>18,50</b>										

**Note:** We manufacture insert nut aluminium with closed end under request. For detailed information on minimum quantities and delivery please contact your local BRALO representative

## CYLINDRICAL INSERT NUT Reduced head - Open end

# ALUMINIUM

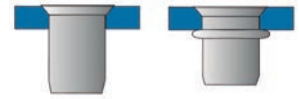
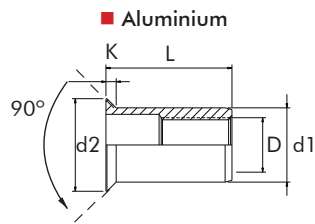









D	E MIN. mm MÁX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
<b>M4</b>	0,5 - 2,5	<b>11,00</b>	5,90	7,00	0,50	6,10	500	4.000	3600	6200	1,6	0302204006
<b>M5</b>	0,5 - 3,0	<b>12,00</b>	6,90	8,00	0,50	7,10	500	4.000	4400	8300	5,5	0302205007
<b>M6</b>	0,5 - 3,0	<b>14,50</b>	8,90	10,00	0,50	10,00	500	3.000	5000	10500	6,3	0302206009
<b>M8</b>	0,5 - 3,0	<b>16,00</b>	10,90	12,00	0,50	11,10	250	1.500	6000	15400	13,8	0302208011

ALUMINIUM

# ALUMINIUM

## CYLINDRICAL INSERT NUT Countersunk head - Open end



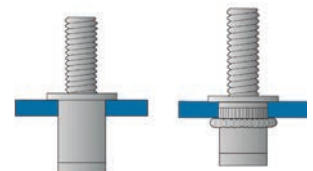
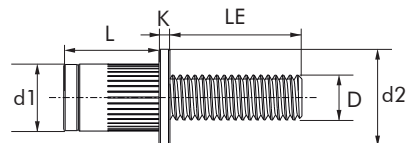
D	 MIN. mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							 Inner	 Outer				
<b>M4</b>	1,5 - 3,5	<b>11,50</b>	5,90	8,70	1,50	6,10	500	4.000	3400	4300	2,0	0302304006
<b>M5</b>	1,5 - 4,0	<b>13,50</b>	6,90	9,50	1,60	7,10	500	4.000	4400	8300	5,5	0302305007
<b>M6</b>	1,5 - 4,0	<b>16,00</b>	8,90	11,50	1,60	9,10	250	2.000	5000	10500	6,3	0302306009
<b>M8</b>	1,5 - 4,0	<b>18,50</b>	10,90	13,50	1,60	11,10	250	1.500	6000	15400	16,9	0302308011





# STEEL

## GROOVED STUD NUT Large head - Closed end



■ Steel Zincoated A3K



D	 MIN. mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	LE mm	 mm	PACKAGING		REFERENCE			
								 Inner	 Outer				
<b>M5</b>	0,5 - 3,0	<b>11,00</b>	7,00	10,00	1,00	14,50	7,10	500	3.000	0370005015			
<b>M6</b>	0,5 - 3,0	<b>13,00</b>	9,00	13,00	1,50	14,50	9,10	250	1.500	0370006015			
										19,50	200	1.200	0370006020
										24,50	150	900	0370006025
<b>M8</b>	0,5 - 3,0	<b>16,00</b>	11,00	16,00	1,50	19,50	11,10	150	900	0370008020			
										24,50	100	600	0370008025

# PNEUMATIC RIVETING TOOLS FOR RIVETS



## THE LIGHT SILENT FORCE

## BRALO FAMILY OF PNEUMATIC RIVETING TOOLS BNT

The new generation of pneumatic riveting tools BRALO, designed for professional use, are surprisingly high riveting force, together with a low level of noise and vibration, and very light, which makes the work more comfortable and helps increase productivity.

### Which pneumatic tool to choose?

RIVET	MATERIAL	BNT-1	BNT-2	BNT-3	BNT-4	BNT-5
2,4	Aluminium, inox	✓	✓	*		
3,0 - 3,2	Alu, steel, copper	✓	✓	✓		
3,0 - 3,2	Inox	✓	✓	✓		
4,0	Alu, steel, inox, copper	✓	✓	✓		
4,8	Aluminium	✓	✓	✓	*	**
4,8	Steel, inox, copper			✓	✓	**
5,0	Aluminium	✓	✓	✓	*	**
5,0	Steel, inox			✓	✓	**
6,0	Aluminium			✓	✓	**
6,0	Steel, inox				✓	**
6,4	Alu, steel, inox				✓	**
3,2 Hardgrip	Steel, inox	✓	✓	✓		
4,0 Hardgrip	Steel, inox	✓	✓	✓		
4,8 Hardgrip	Steel, inox			✓	✓	**
6,0 Hardgrip	Steel, inox				✓	**
6,4 Hardlock	Alu, steel, inox				***	
4,8 Structural	Alu, steel, inox			*	*	**
6,5 Structural	Alu, steel, inox				**	✓
5,2 S-Trebol	Aluminium		*	**	*	**
6,4 S-Trebol	Aluminium		**	**	*	**
7,7 S-Trebol	Aluminium				**	*

\* It needs special nosepiece.

\*\* It needs special nosepieces and jaws.

\*\*\* It needs special jaws.

### FEATURES

- Great riveting force for serial applications.
- Lightweight and reliable.
- Main body made of high density aluminum casting.
- Transparent mandrel collector for more safety and visibility.
- Balanced weight distribution.
- Security valve.
- Air control valve.
- Base of high strength rubber.
- Low vibrations for greater comfort.
- Hanging ring.
- Anodized for higher strength.
- Head or nozzle holder with access to narrow riveting points.
- Ergonomic handle.

# BNT-1

## PNEUMATIC RIVETING TOOLS for rivets



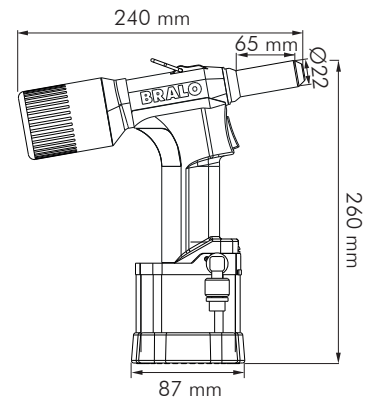
### TECHNICAL DATA

WEIGHT: 1.320 grs.  
 STROKE: 15 mm.  
 \*TENSILE STRENGTH: 8.400 N.  
 CAPACITY: Up to 5,0 mm.

RIVET Ø mm	MATERIAL			
	Aluminium	Steel	Inox	Copper
2,4	✓		✓	
3,0 - 3,2	✓	✓	✓	✓
3,2 - 4,0 Hardgrip		✓	✓	
4,0	✓	✓	✓	✓
4,8 - 5,0	✓			

\* Force measured at 6 Bar.

Ref: 02BNT1010



# BNT-2



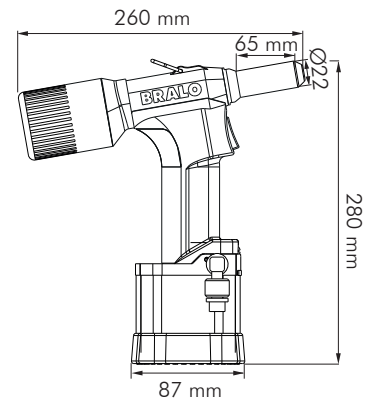
### TECHNICAL DATA

WEIGHT: 1.340 grs.  
 STROKE: 24 mm.  
 \*TENSILE STRENGTH: 8.400 N.  
 CAPACITY:  
 Up to 4,8-5,0 mm.  
 With a special nosepiece 5,2 mm S-Trebol.

RIVET Ø mm	MATERIAL			
	Aluminium	Steel	Inox	Copper
2,4	✓		✓	
3,0 - 3,2	✓	✓	✓	✓
3,2 - 4,0 Hardgrip		✓	✓	
4,0	✓	✓	✓	✓
4,8 - 5,0	✓			

\* Force measured at 6 Bar.

Ref: 02BNT2010



# BNT-3



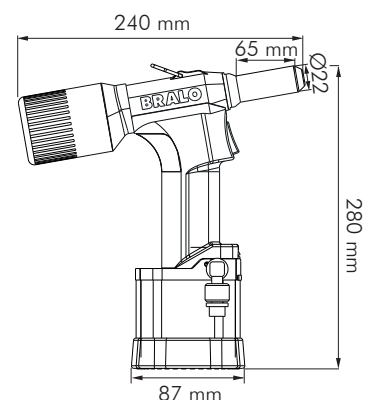
### TECHNICAL DATA

WEIGHT: 1.370 grs.  
 STROKE: 17 mm.  
 \*TENSILE STRENGTH: 12.100 N.  
 CAPACITY: Up to 6,0 aluminium and 4,8 mm Hardgrip.  
 With special nosepiece 5,2 - 6,4 S-Trebol and 4,8 Structural.

RIVET Ø mm	MATERIAL			
	Aluminium	Steel	Inox	Copper
3,0 - 3,2	✓	✓	✓	✓
3,2 - 4,0 Hardgrip		✓	✓	
4,0	✓	✓	✓	✓
4,8	✓	✓	✓	✓
5,0	✓	✓	✓	
4,8 Hardgrip		✓	✓	
6,0	✓			

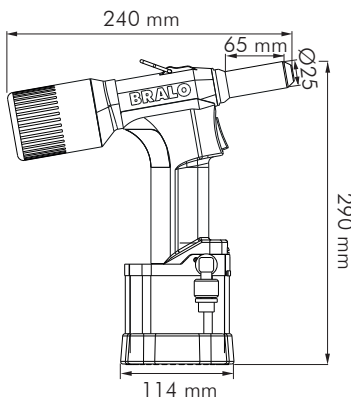
\* Force measured at 6 Bar.

Ref: 02BNT3010





Ref: 02BNT4010



### TECHNICAL DATA

WEIGHT: 2.000 grs.  
 STROKE: 18 mm.  
 \*TENSILE STRENGTH: 22.000 N.  
 CAPACITY:  
 From 4,8 - 6,4 mm and 6,0 Hardgrip.  
 With special jaws 6,4 Hardlock. With special nosepiece 5,2 and 6,4 S-trebol. And with special nosepieces and jaws 7,7 mm S-trebol and 6,5 mm Structural.

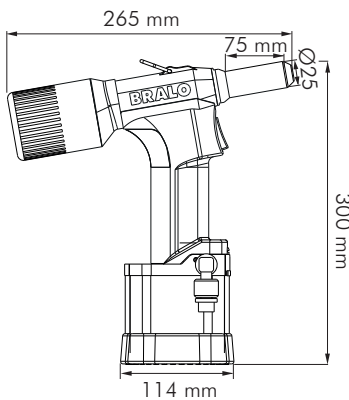
RIVET ∅ mm	MATERIAL			
	Aluminium	Steel	Inox	Copper
4,8	✓	✓	✓	✓
5,0	✓	✓	✓	
6,0 - 6,4	✓	✓	✓	
4,8 Hardgrip		✓	✓	
6,0 Hardgrip		✓	✓	

\* Force measured at 6 Bar.



## BNT-5

Ref: 02BNT5010



### TECHNICAL DATA

WEIGHT: 2.050 grs.  
 STROKE: 26 mm.  
 \*TENSILE STRENGTH: 15.000 N.  
 CAPACITY: 6,5 mm Structural  
 With a special nosepiece 7,7 S-trebol.  
 And with optional nosepieces and jaws set from 4,8 up to 6,4 mm.

RIVET ∅ mm	MATERIAL			
	Aluminium	Steel	Inox	Copper
6,5 Structural	✓	✓	✓	

\* Force measured at 6 Bar.



## ACCESSORIES BNT

### MANDREL CATCHER

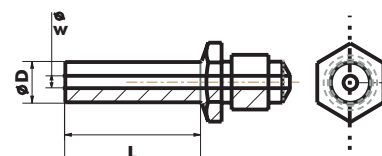
The BNT pneumatic tools have a standard mandrel catcher for short mandrel rivets.  
 If you need to set long mandrel rivets -more than 45 mm long - in your application-, it is advisable to purchase the special mandrel catcher for long mandrels that is supplied as optional accessory and special nosepieces too.

Ref: 05BNT000402

Ref: 05BNT00L402



## SPARE PARTS



	REFERENCE	FOR RIVETS ALUMINIUM/STEEL ∅	W ∅ mm	D ∅ mm	L mm
732	05BM0000732	3.0 -3.2	2,10	6	15
733	05BM0000733	3.0 -3.2	2,10	6	20
734	05BM0000734	3.0 -3.2	2,10	6	25
741	05BM0000741	4.0	2,50	8	10
742	05BM0000742	4.0	2,50	8	15
743	05BM0000743	4.0	2,50	8	20
744	05BM0000744	4.0	2,50	8	25
751	05BM0000751	4.8-5.0	3,15	8	15
752	05BM0000752	4.8-5.0	3,15	8	20
755	05BM0000755	4.8-5.0	3,15	8	25

RIVETING TOOLS

# BATTERY RIVETING TOOLS FOR BLIND RIVETS



## FEATURES



Battery 2,0 Ah Li-Ion 14,4 V.  
REFERENCE: 05BET100018F



Battery 4,0 Ah Li-Ion 14,4 V.  
REFERENCE: 05BET100019F



Battery charger 14,4 V.  
REFERENCE: 05BET000020

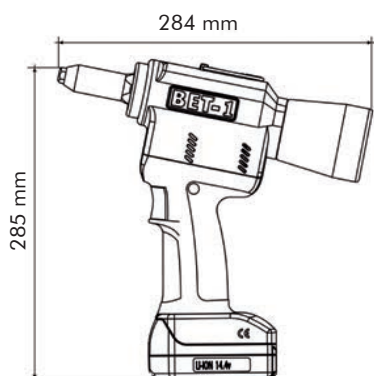






## TECHNICAL DATA

WEIGHT: 1.690 grs.  
 LENGTH: 284 mm.  
 STROKE: 20 mm.  
 CAPACITY: Up to 5,0 mm.  
 WEIGHT BATTERY 2,0 Ah.: 0,34 kg.  
 WEIGHT BATTERY 4,0 Ah.: 0,58 kg.  
 POWER BATTERY: 14.4 V.



ARTICLE	REFERENCE
BET-1 1 battery 2,0Ah	02BET1010
BET-1 2 batteries 4,0Ah.	02BET1020

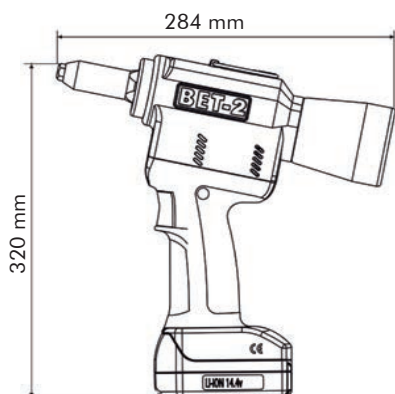
RIVET Ø mm	MATERIAL			
	Aluminium	Steel	Inox	Copper
2,4	✓	✓	✓	✓
3,0 - 3,2	✓	✓	✓	✓
4,0	✓	✓	✓	✓
4,8 - 5,0	✓	✓	✓	✓



# BET-2

## TECHNICAL DATA

WEIGHT: 1.690 grs.  
 LENGTH: 284 mm.  
 STROKE: 27 mm.  
 CAPACITY: Up to 6,4 mm.  
 WEIGHT BATTERY 2,0 Ah.: 0,34 kg.  
 WEIGHT BATTERY 4,0 Ah.: 0,58 kg.  
 POWER BATTERY: 14.4 V.



ARTICLE	REFERENCE
BET-2 1 battery 4,0Ah.	02BET2010

RIVET Ø mm	MATERIAL		
	Aluminium	Steel	Inox
4,8 - 5,0	✓	✓	✓
6,0 - 6,4	✓	✓	✓
4,8 - 6,0 Hardgrip		✓	✓
6,5 Hardlock	✓	✓	✓
4,8 Structural	✓	✓	✓
6,5 Structural	✓	✓	✓
5,2 - 6,4 S-Trebol	*		
7,7 S-Trebol	**		

\* It needs optional nosepiece.  
 \*\* It needs optional nosepiece and guide parts that are supplied as accessories (Kit S-Trebol).



RIVETING TOOLS

# MANUAL RIVETING TOOLS FOR BLIND RIVETS



## BRALO MANUAL RIVETING TOOLS

Our riveting tools are distinguished by their lightness, ergonomics, speed and high quality.

### Which manual tool to choose?

RIVET	MATERIAL	BM-45	BM-75	BM-85	BM-67	BM-92	BM-160	BM-164
2,4	Alu, Stainless steel	✓	✓	✓				
3,0	Alu, steel, stainless steel, copper	✓	✓	✓	✓	✓	✓	
3,2	Alu, steel, stainless steel, copper	✓	✓	✓	✓	✓	✓	
4,0	Alu, steel, stainless steel, copper	✓	✓	✓	✓	✓	✓	
4,8	Aluminium	✓	✓	✓	✓	✓	✓	✓
4,8	Steel, stainless steel, copper				✓	*	✓	✓
4,8	Structural						*	*
5,0	Aluminium				✓	✓	✓	✓
5,0	Steel, stainless steel				✓	*	✓	✓
6,0	Aluminium				✓	*	✓	✓
6,0	Steel, stainless steel				✓			✓
6,4	Aluminium				✓			✓
6,4	Steel, stainless steel				✓			✓
5,2 - 6,4	S-Trebol						*	*

\* It needs optional accessories.

### FEATURES

**SLIM DESIGN** for access to difficult riveting places.

Main body cast in **ALUMINIUM FOUNDRY**.

For use both **IN AND OUTDOORS**.

**ERGONOMIC HANDLES** for minimum operating effort.

**INTERMEDIATE LEVER SYSTEM** (BM-85) reduces power requirement and effects shock-absorption.

Light tempered **STEEL LEVER**.

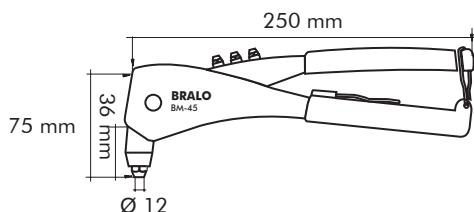
A cavity within the tool for the **ADDITIONAL NOSEPIECES** and nosepiece spanner.



# BM-45

## TECHNICAL DATA

WEIGHT: 530 grs.  
 LENGTH: 250 mm.  
 STROKE: 5 mm.  
 CAPACITY: Up to 5 mm.



ARTICLE	REFERENCE
BM 45 BLISTER	92BM00450
BM 45 "Tool kit" PLASTIC BOX	02BM00453 BM 45 + rivets assortment

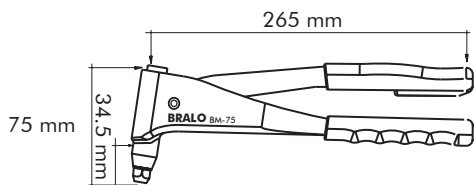
RIVET ∅ mm	MATERIAL			
	Aluminium	Steel	Stainless steel	Copper
2,4	✓		✓	
3,0 - 3,2	✓	✓	✓	✓
4,0	✓	✓	✓	✓
4,8 - 5,0	✓			



# BM-75

## TECHNICAL DATA

WEIGHT: 600 grs.  
 LENGTH: 265 mm.  
 STROKE: 6 mm.  
 CAPACITY: Up to 5 mm.



ARTICLE	REFERENCE
BM 75	02BM00750
BM 75 BLISTER	92BM00750
BM 75 PLASTIC BOX	02BM0075PB BM 75 + rivets assortment

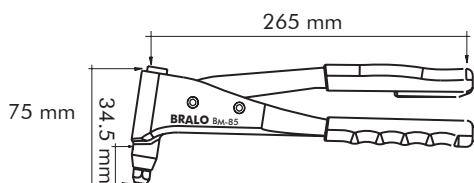
RIVET ∅ mm	MATERIAL			
	Aluminium	Steel	Stainless steel	Copper
2,4	✓		✓	
3,0 - 3,2	✓	✓	✓	✓
4,0	✓	✓	✓	✓
4,8 - 5,0	✓			



# BM-85

## TECHNICAL DATA

WEIGHT: 670 grs.  
 LENGTH: 265 mm.  
 STROKE: 6 mm.  
 CAPACITY: Up to 5 mm.



ARTICLE	REFERENCE
BM 85	02BM00850
BM 85 PLASTIC BOX	02BM0085PB BM 85 + rivets assortment

RIVET ∅ mm	MATERIAL			
	Aluminium	Steel	Stainless steel	Copper
2,4	✓		✓	
3,0 - 3,2	✓	✓	✓	✓
4,0	✓	✓	✓	✓
4,8 - 5,0	✓			



RIVETING TOOLS

# BM-67

## MANUAL RIVETING TOOLS for Rivets



ARTICLE	REFERENCE
BM 67	02BM00670

RIVET Ø mm	MATERIAL			
	Aluminium	Steel	Stainless steel	Copper
3,0	✓	✓	✓	✓
3,2	✓	✓	✓	✓
4,0	✓	✓	✓	✓
4,8	✓	✓	✓	✓
5,0	✓	*	*	
6,0	*	*	*	
6,4	*	*	*	

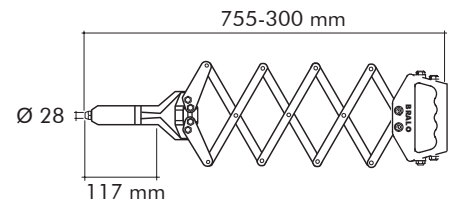
\* For prolonged usage, we recommend you use the BM-164.

### FEATURES

- Extra long nose to for access hard-to-reach riveting places.
- Extension type tool that gives the possibility to set blind rivets using only one hand.
- Main body and handle manufactured in a high density aluminium casting.
- Comfortable handle for a better riveting.
- The connecting bars that constitute the bellows are manufactured in straps of steel.
- Provided with additional nosepieces allocated in the handle.

### TECHNICAL DATA

WEIGHT: 1.920 grs.  
 LENGTH: 755 mm.  
 STROKE: 8 mm.  
 CAPACITY: Up to 6,4 mm.



# BM-92



ARTICLE	REFERENCE
BM 92	02BM00920

RIVET Ø mm	MATERIAL			
	Aluminium	Steel	Stainless steel	Copper
3,0	✓	✓	✓	✓
3,2	✓	✓	✓	✓
4,0	✓	✓	✓	✓
4,8	✓	*	*	*
5,0	✓	*	*	
6,0	*			

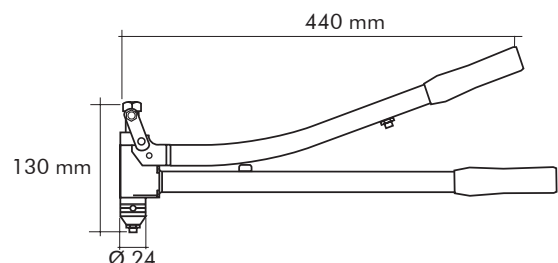
\* It needs a nosepiece that is supplied as accessory.

### FEATURES

- For use both in and outdoors.
- Main body, levers and the anchoring are made of the highest quality steel.
- Head for access to difficult riveting places.
- Comfortable and ergonomic handles.
- Only one of the levers can be moved, for use in reduced spaces.
- A cavity within the tool for the additional nosepieces.

### TECHNICAL DATA

WEIGHT: 1.590 grs.  
 LENGTH: 440 mm.  
 STROKE: 10 mm.  
 CAPACITY: Up to 6,0 mm.



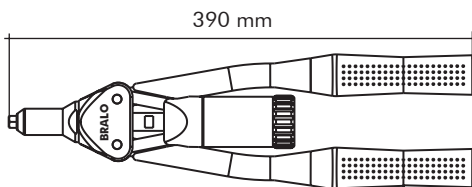


## FEATURES

- Heavy duty short arm riveter.
- Main body manufactured in a high density aluminium casting.
- Levers and anchoring made of high quality steel for more resistance.
- Comfortable and ergonomic handles.
- Mandrel collector to keep the cleanliness and safety of the working area.
- Solid, safe and durable tool.
- Supplied with additional nosepieces.

## TECHNICAL DATA

WEIGHT: 1.360 grs.  
LENGTH: 390 mm.  
STROKE: 10 mm.  
CAPACITY: Up to 6,0 mm and 6,4 S-Trebol.



ARTICLE	REFERENCE
BM160	02BM01600
BM 160 PLASTIC BOX	02BM01602

RIVET Ø mm	MATERIAL			
	Aluminium	Steel	Stainless steel	Copper
3,0 - 3,2	✓	✓	✓	✓
4,0	✓	✓	✓	✓
4,8	✓	✓	✓	✓
4,8 Structural	*	*	*	
5,0	✓	✓	✓	
6,0	✓			
5,2 S- Trebol	*			
6,4 S-Trebol	**			

\* It needs special nosepiece that is supplied as accessory.

\*\* It needs special nosepiece and jaws that are supplied as accessories.



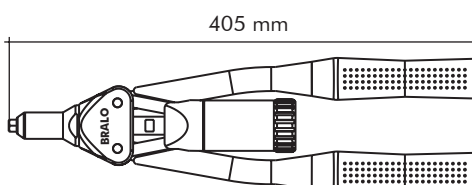
# BM-164

## FEATURES

- Main body manufactured in a high density aluminium casting.
- Levers and anchoring made of high quality steel for more resistance.
- Comfortable and ergonomic handles.
- Mandrel collector to keep the cleanliness and safety of the working area.
- Powerful, safe and durable tool.
- Supplied with additional nosepieces.

## TECHNICAL DATA

WEIGHT: 1.420 grs.  
LENGTH: 405 mm.  
STROKE: 10 mm.  
CAPACITY: Up to 6,5 structural and 7,7 S-trebol.



ARTICLE	REFERENCE
BM164	02BM01640
BM 164 PLASTIC BOX	02BM01642

RIVET Ø mm	MATERIAL			
	Aluminium	Steel	Stainless steel	Copper
4,8	✓	✓	✓	✓
5,0	✓	✓	✓	✓
6,0	✓	✓	✓	
6,4	✓	✓	✓	
5,2 S-Trebol	*			
6,4 S-Trebol	*			

\* It needs special nosepiece that is supplied as accessory.



# MANUAL RIVETING TOOLS FOR INSERT NUTS



## T-105

MANUAL RIVETING TOOLS for insert nuts

### FEATURES

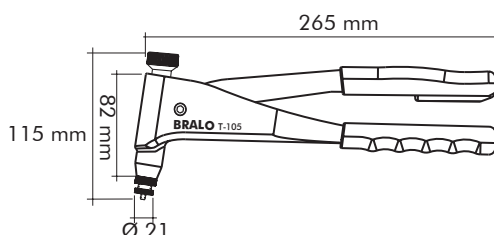
- For use both in and outdoors.
- Slim design for access to difficult riveting places.
- Main body made in aluminium alloy.
- Light tempered steel lever.
- Nosepiece spanner fixed on the tool.
- Ergonomic handles to get a better riveting.

### TECHNICAL DATA

WEIGHT: 670 grs.  
LENGTH: 265 mm.  
WIDE: 115 mm.  
STROKE: 7,5 mm.  
CAPACITY: M3 to M6.

ARTICLE	REFERENCE
T 105	02TR01050
T 105 PLASTIC BOX	02TR0105PB T-105+ Assortment M4, M5 and M6 Steel Insert Nuts.

INSERT NUT Ø mm	MATERIAL			
	Aluminium	Steel	Inox	Brass
M-3	✓	✓	✓	✓
M-4	✓	✓	✓	✓
M-5	✓	✓	✓	✓
M-6	✓	✓		



## MANUAL RIVETING TOOLS for insert nuts

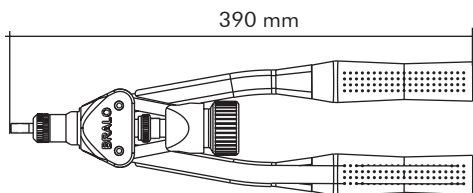
# TR-308

### FEATURES

- Main body is made in a high density aluminium casting.
- The multiplier effect guarantees that just a minimum amount of strength is required.
- Ergonomic handles that facilitate the riveting process.
- Easy to adjust and to fix the stroke through a knurled adjustment nut.
- Hand threading and unthreading of the insert nut with a central rotating handle.

### TECHNICAL DATA

WEIGHT: 1.470 grs.  
 LENGTH: 390 mm.  
 STROKE: 6 mm.  
 CAPACITY: M-3 to M-8.



ARTICLE	REFERENCE
TR 308 PLASTIC BOX	02TR03080

INSERT NUT ∅ mm	MATERIAL			
	Aluminium	Steel	Inox	Brass
M-3	✓	✓	✓	✓
M-4	✓	✓	✓	✓
M-5	✓	✓	✓	✓
M-6	✓	✓	✓	✓
M-8	✓	✓	✓	✓

**Note:** This tool can set steel stud nuts M-5, M-6 and M-8. It needs special nose-pieces and mandrels (female) that are supplied as accessories.



## MANUAL RIVETING TOOLS for insert nuts

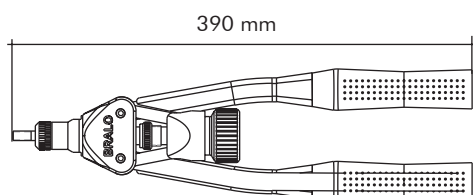
# TR-312

### FEATURES

- The multiplier effect guarantees that just a minimum amount of strength is required.
- Main body is made in a high density aluminium casting.
- Levers and anchoring made in a high quality steel.
- Comfortable and ergonomic handles.
- Easy to adjust and to fix the stroke through a knurled adjustment nut.
- Hand threading and unthreading of the insert nut with a central rotating handle.

### TECHNICAL DATA

WEIGHT: 1.510 grs.  
 LENGTH: 390 mm.  
 STROKE: 7 mm.  
 CAPACITY: M-6 to M-12.



ARTICLE	REFERENCE
TR 312 PLASTIC BOX	02TR03120

INSERT NUT ∅ mm	MATERIAL			
	Aluminium	Steel	Inox	Brass
M-6	✓	✓	✓	✓
M-8	✓	✓	✓	✓
M-10	✓	✓	✓	✓
M-12	✓	✓		



RIVETING TOOLS

# PNEUMATIC RIVETING TOOL FOR SPEED RIVETS

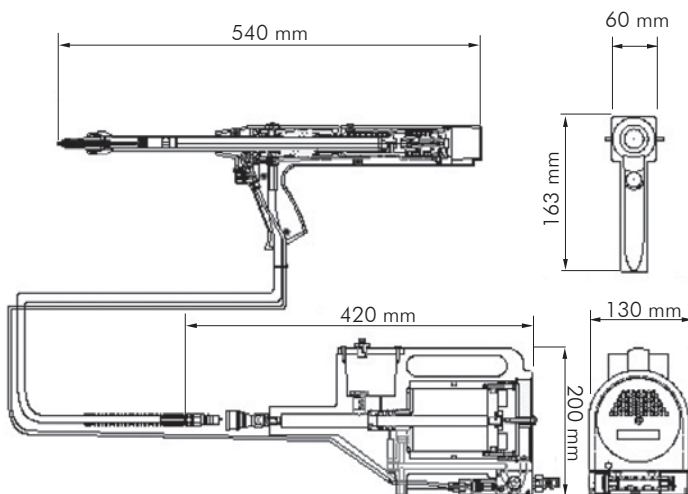
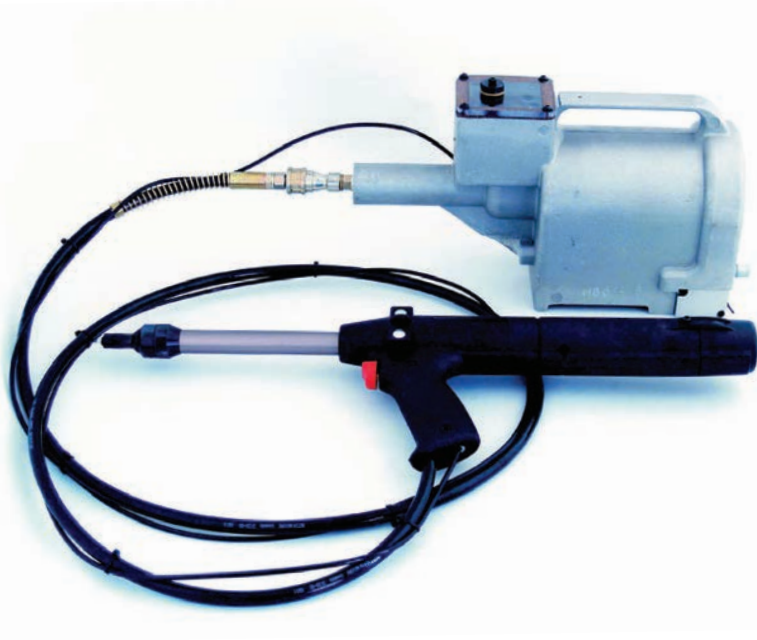
The BRALO RR-10 is an oleopneumatic tool that fastens BSR, BSV speed rivets. It is a lightweight, ergonomic tool, with an efficient setting system, designed to meet the needs of the most demanding of applications. It is ideally used in assembly lines and capable of setting all types of speed rivets from 3.2 to 4.8 mm.

## FEATURES

- Durable and reduced maintenance cost.
- Very fast, average cycle time less than one second.
- Automatic rivet feeding.
- Ergonomic handle.
- Increased productivity.
- Lightweight and effective tool.

## TECHNICAL DATA

WEIGHT: 2.800 grs.  
 LENGTH: 540 mm.  
 WORKING PRESSURE: 5.5 - 6.5 bar.  
 AIR CONSUMPTION: 0,8 l/rivet.  
 STROKE: 21 mm.  
 CAPACITY: Up to 4,8-5,0 mm.



ARTICLE	REFERENCE
RR COMPRESSOR	02RR00100
RR-10 Ø 3,2	02RR00103
RR-10 Ø 4,0	02RR00104
RR-10 Ø 4,8	02RR00105

RIVET Ø mm	MATERIAL			
	Aluminium	Steel	Stainless steel	Copper
3,2	✓	✓	✓	✓
4,0	✓	✓	✓	✓
4,8	✓	✓	✓	✓



# CATALOGUE

PROFESSIONALS IN FIXING SYSTEMS: BLIND RIVETS, INSERT NUTS AND TOOLS

## PRODUCTION PLANTS

### BRALO ESPAÑA, S.A.

Milanos 12, Pol. Ind. La Estación  
28320 Pinto (Madrid) SPAIN  
Tel.: +34 91 692 82 85  
Fax: +34 91 692 10 07  
[bralo@bralo.com](mailto:bralo@bralo.com)

### BRALO MEXICO, S.A. De C.V.

Eje 7 Norte No. 110  
Parque Industrial Toluca 2000  
Toluca, Edo de México, C.P. 50200 MEXICO  
Tel.: +52 722 2497217  
[bralo.mx@bralo.com](mailto:bralo.mx@bralo.com)

### BRALO NINGBO CHINA

China Ningbo European Industrial Park  
1st Bin Hai Rd. Hangzhouway Bay New Zone  
Cixi City, Zhejiang, CHINA  
Tel.: +865 7463077693  
[bralo.cn@bralo.com](mailto:bralo.cn@bralo.com)

## COMMERCIAL DELEGATIONS

### BRALO ESPAÑA, S.A.

Milanos 12, Pol. Ind. La Estación  
28320 Pinto (Madrid) SPAIN  
Tel.: +34 91 692 82 85  
Fax: +34 91 692 10 07  
[bralo@bralo.com](mailto:bralo@bralo.com)

### BRALO U.K. LTD

Leabrook Road  
Wednesbury, West Midlands  
WS10 7NB UNITED KINGDOM  
Tel.: +44 121 567 3230  
[bralo.uk@bralo.co.uk](mailto:bralo.uk@bralo.co.uk)

### BRALO DEUTSCHLAND, GmbH

Mergelfeld 24  
D-31275 Lehrte OT Ahlten, GERMANY  
Tel.: +49 5132 504601  
[bralo.de@bralo.com](mailto:bralo.de@bralo.com)

### BRALO CZ, s.r.o.

Řípská 11b  
627 00 Brno, CZECH REPUBLIC  
Tel.: +420 545 428 611  
[bralo.cz@bralo.com](mailto:bralo.cz@bralo.com)

### BRALO ITALIA s.r.l.

Via Carlo Doppieri 15  
Frazione Veveri  
28100 Novara, ITALY  
Tel.: +39 0321 622601  
[bralo.it@bralo.com](mailto:bralo.it@bralo.com)

### BRALO PORTUGUESA, Lda.

Pq. Ind. Sintra/Estoril VII – Pav.A3  
Rua Tapada Nova, 9 Capa Rota – Linhó  
2710-297 Sintra, PORTUGAL  
Tel.: +351 21 9245270  
[bralo.pt@bralo.com](mailto:bralo.pt@bralo.com)

### BRALO Baglanti Elemanlari San.ve Tic.

Tuzla Mermerciler Organize Sanayi Bölgesi  
7 . Sokak No: 3  
Tuzla 34953 - Istanbul, TURKEY  
Tel.: +90 216 5932710  
[bralo.tr@bralo.com](mailto:bralo.tr@bralo.com)

### BRALO FRANCE, S.A.S

Zac Chesnes la Noirée  
15 Allée de Provence  
38070 Saint Quentin Fallavier, FRANCE  
Tel.: +33 4 74946294  
[bralo.fr@bralo.com](mailto:bralo.fr@bralo.com)

### BRALO NINGBO CHINA

China Ningbo European Industrial Park  
1st Bin Hai Rd. Hangzhouway Bay New Zone  
Cixi City, Zhejiang, CHINA  
Tel.: +865 7463077693  
[bralo.cn@bralo.com](mailto:bralo.cn@bralo.com)

### BRALO MEXICO, S.A. De C.V.

Eje 7 Norte No. 110  
Parque Industrial Toluca 2000  
Toluca, Edo de México, C.P. 50200 MEXICO  
Tel.: +52 722 2497217  
[bralo.mx@bralo.com](mailto:bralo.mx@bralo.com)



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