

# CATALOGUE 2022



THE QUALITY IN RIVETS, INSERT NUTS AND RIVETING TOOLS



# BRALO

## BRALO EXPERTS IN FIXING

Leading multinational, dedicated to the manufacture and distribution of blind rivets, structural rivets, insert nuts and riveting tools.

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.



### PRODUCTION PLANTS



BRALO, S.A.



BRALO NINGBO CHINA



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

### COMMERCIAL DELEGATIONS

BRALO, S.A.

BRALO DEUTSCHLAND GmbH

BRALO U.K. LTD

BRALO CZ, S.R.A.

BRALO ITALIA S.R.L.

BRALO PORTUGUESA, Lda.

BRALO FRANCE, S.A.S

BRALO NINGBO CHINA

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

BRALO Baglanti Elemanlari San.ve Sti.

### DISTRIBUTORS

Austria

USA

Uruguay

Argentina

Chile

Russia



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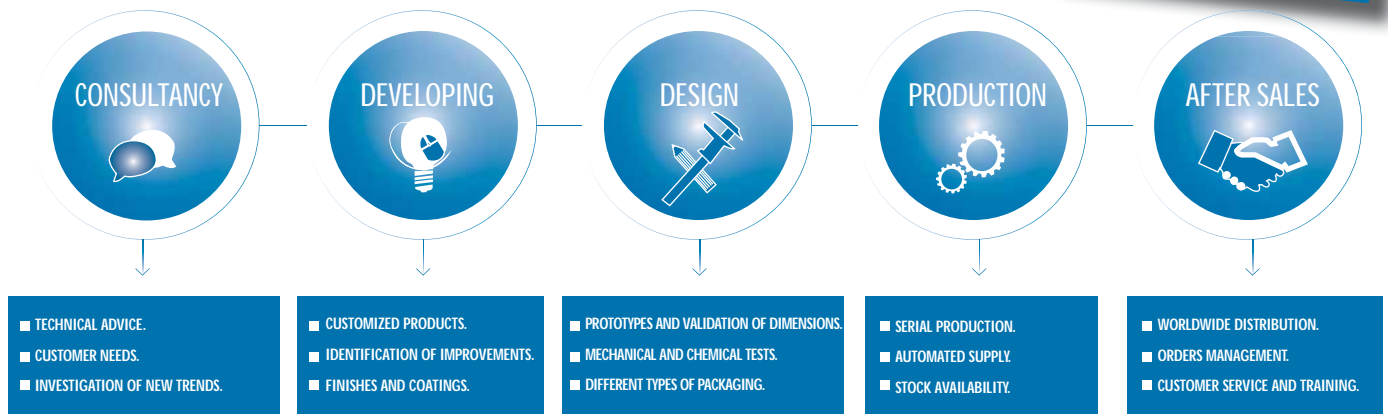
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## INNOVATION

In all production plants exists a quality system plan based on an exigent inspection requirements for raw materials, products and machinery.



## LATEST TECHNOLOGY

We have the most advanced technology for computer control throughout the production process and all our plants operate automatically.



## CUSTOMER SERVICE

BRALO offers advice and training on which rivets and rivet nuts choose. We attend and manage your orders in a fast and personalized way.



## TOOL SAFETY

Safety in the use of our products is one of the main objectives of BRALO, with continuous improvements and innovations in our products.

All our riveting machines count with the safety and ergonomics established in the European directives 2003/10/ CE and 2002/44/CE on the impact of vibrations and noise on the operator.

## R&D

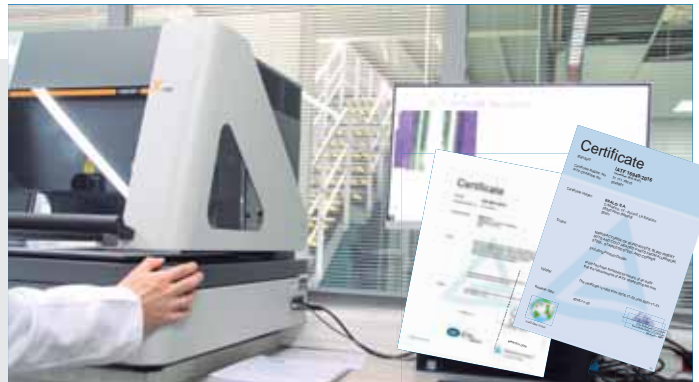
BRALO is a strong believer in R&D, investing 5% of our revenue into it. This is done with the goal of continuously improving our ability to always be able to offer innovative products that go above and beyond market demands, and that meet the highest quality STANDARDS.



## QUALITY 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 ENVIRONMENT

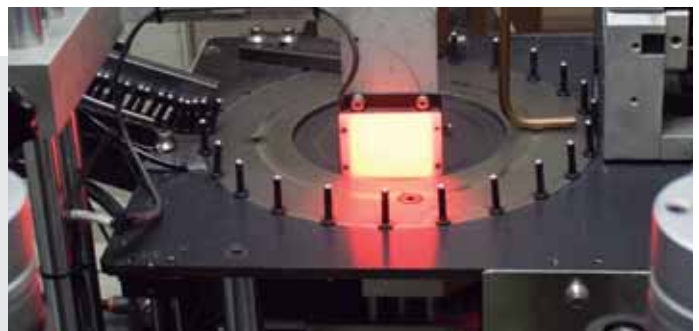
BRALO's dedication to the environment and sustainable development has led us to carry out active management with the good of the planet in mind, such as accredits its ISO 14001:2015 certification.



## INSPECTION MACHINES

Our manufacturing monitoring systems verify the suitability of 100% of the products.

We guarantee that our parts, located in demanding applications, offer the security required for both the final recipient as for the different industries, automotive, construction or renewable energy.



**BT-20**



**page 135**

**Battery riveting tool**  
With capacities from 2.4 to 7.8 standard, structural and S-trebol.

**page 83**



**NUTS AND RIVETS WITH SEALANT TREATMENT**

**NEW Label:**  
Image and QR with information



**page 77**

### ESTRUBOLT

Structural rivet with high tensile and shear strength, good hole filling and high tightness.

**RANGE HT**

**page 131**



### Hydropneumatic riveting tools

Ideal for high strength rivets such as lockbolts, Estrubolt and Structural rivets.



**NEW BRALOCK RANGE**  
**Lockbolts**

**page 78**



### STUD NUTS RANGE

We expand types of studs nuts.

**page 116**

We offer an [after-sales repair service](#) on all our riveting machines.



For more than four decades, BRALO fastening systems have been developed with the most innovative technology, constituting a wide range of rivets, rivet nuts and installation equipment.



## RIVETS AND LOCKBOLTS

The BRALO range has more than 6,000 references on the market, from blind and structural rivets to high-strength collar bolts.

Available in aluminum, steel, stainless steel and copper.

Thanks to our wide assortment of materials, finishes and coatings, the customer can choose all the characteristics of the rivet: from colour to design.



## INSERT NUTS

The variety of insert nuts is infinite: cylindrical, grooved, hexagonal, semi-hexagonal, etc.

We have different materials, aluminum, steel and stainless steel, in addition to several types of head for each application, low, large, countersunk and extra-large.

The nuts can be treated with protective finishes and coatings for added strength.



## SPECIAL PIECES

BRALO serves customers in a wide variety of industries with infinite production environments, from repairs and maintenance, to automated workplaces and production lines, and in all offers its services for the design of special and custom parts.



## 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 range and BRALO HT 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.



## BATTERY RIVETING TOOLS

Being portable and fast, BRALO's electronic tools have the capacity for setting both standard and structural rivets.

The new BT-20 and the 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 and provide a wide assembly capacity and a powerful Li-Ion battery.

# BLIND RIVETS

We have products made with high quality materials to ensure they meet the high quality standards of the different industries.

## RIVET MATERIALS

### 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 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.

## MATERIAL COMPATIBILITY

How to choose a rivet to minimize galvanic corrosion

APPLICATION MATERIAL	RIVET HEAD MATERIAL					
	Aluminium	Steel + Zinc	Inox. austenitic	Copper	Monel	Steel + Ni-Zn
ALUMINIUM	Optimum	Moderate	Not recommended	Moderate	Not recommended	Not recommended
STEEL + RECU. ZINC NICKEL	Not recommended	Optimum	Not recommended	Moderate	Not recommended	Not recommended
STAINLESS STEEL AUSTENITIC	Not recommended	Not recommended	Optimum	Not recommended	Not recommended	Not recommended
COPPER	Not recommended	Not recommended	Not recommended	Optimum	Not recommended	Not recommended
MONEL	Not recommended	Not recommended	Not recommended	Not recommended	Optimum	Not recommended

Joints with moderate compatibility can be substantially accelerated in the presence of an electrolyte. In general, the rivet should be more cathodic than the elements to be joined to protect the joint made by the rivet.

Optimum    Okay    Moderate    Not recommended

## HEAD TYPES

### DOME HEAD

This is the most versatile type of head. It provides enough bearing surface to retain all kinds of materials, except those extremely smooth and brittle.



### LARGE HEAD

This provides double the bearing area compared to the dome head and offers a great resistance. They are designed for applications where a soft or brittle material is assembled to a rigid support material.

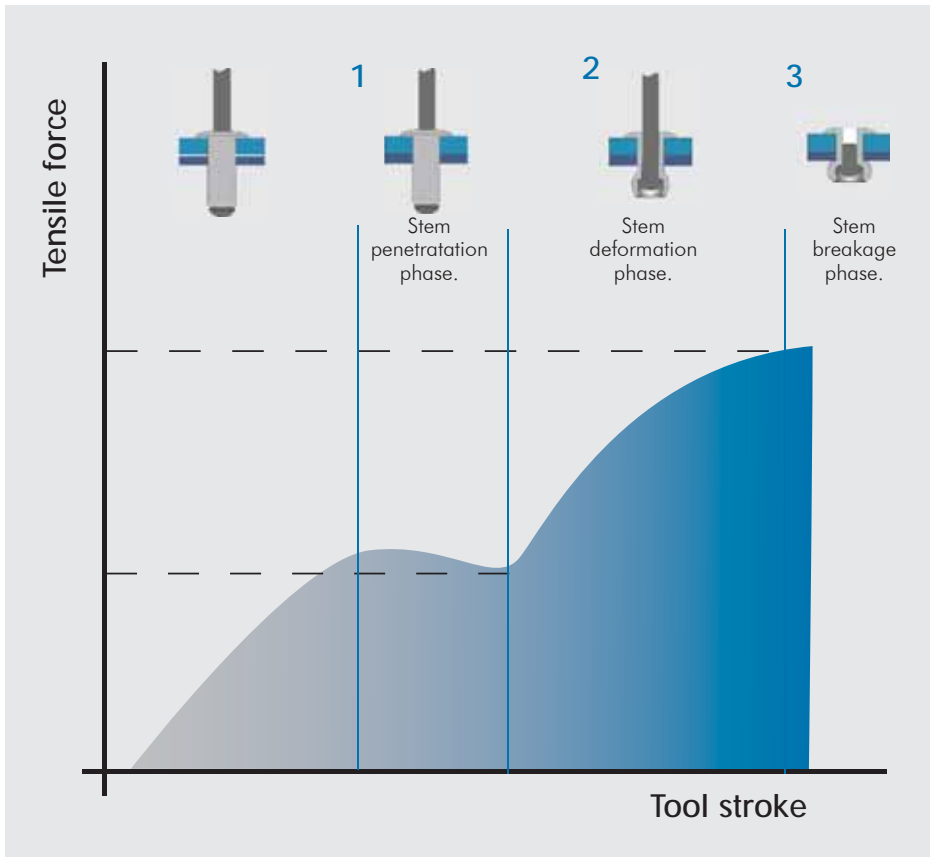


### COUNTERSUNK HEAD

This type of head allows the riveting of a bigger thickness. It's designed to appear as a flat surface, flush with application.







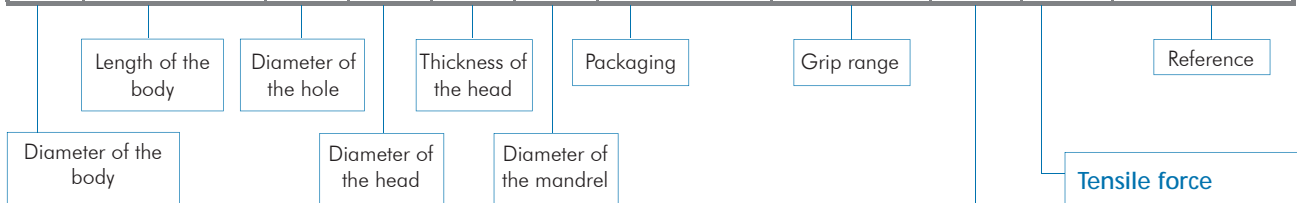
## RIVETED FORCE PROCESS CHART



1. Put the rivet into the nosepiece and insert it into the hole.
2. Push the trigger of the tool so the mandrel enters into 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.

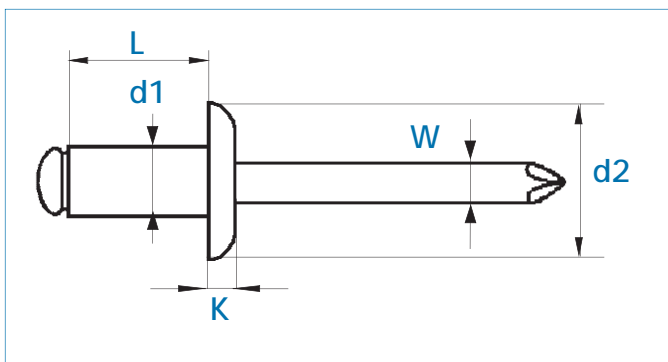
## DIMENSIONS

<b>d1</b> Ø mm	<b>L</b> Nominal mm	 mm	<b>d2</b> Ø mm	<b>K</b> mm	<b>W</b> Ø mm	<b>PACKAGING</b> Inner Outer	 <b>E</b> MIN. mm MAX.	 (N)	 (N)	<b>REFERENCE</b>
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**Tensile force**  
Occurs when a riveted assembly is subjected to two forces in opposite directions applied in the symmetry axis of the rivet.

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



# 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.

	<b>STANDARD RIVET</b> Wide grip range. Where especially high torque force is not needed. Great variety of materials. Fast, simple with great quality assembly.	
	<b>MULTIGRIP RIVET</b> Multigrip features. Excellent visual aspect on both sides. Fills the hole perfectly. Especially suitable for working with plastics and thin metal sheets.	
	<b>VERSAGRIP RIVET</b> Multi-grip behavior. Good filling of drill hole. Suitable for thin metal sheets.	
	<b>HARDVEX RIVET</b> Multigrip features. High shear and tensile strength. Provides vibration resistance. Especially suitable to work with thin and soft materials.	
	<b>TREBOL RIVET</b> Multigrip features. High resistance to corrosion. Mandrel locking system. Designed to fasten rigid materials to soft or low resistance materials.	
	<b>RIVET TREBOL WP (WATERPROOF)</b> Rivet sealed to the passage of water and other liquids. Multi-thickness behavior that helps to have less inventory. High resistance to corrosion in adverse atmospheric conditions. Strong mandrel exit.	
	<b>PEELED RIVET</b> 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.	
	<b>SEALED RIVET</b> 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.	
	<b>GROOVED RIVET</b> 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.	

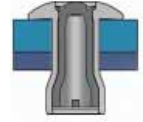
## STRUCTURAL RIVETS

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.



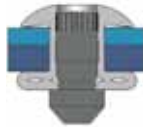
### RIVET MULTILOCK

Suitable for special applications to join widely separated materials.  
Great tightness.  
Good hole filling.  
High tensile and shear strength.



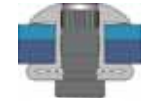
### HARDLOCK RIVET

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.



### RIVET G-BRA

Suitable for high tensile and shear strength applications.  
Efficient retention thanks to the large locking head of the mandrel.  
Good hole backfilling ensuring mechanical mandrel locking to avoid electrical and vibration problems.



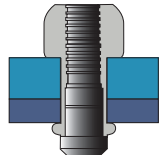
### HARDGRIP RIVET

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.



### ESTRUBOLT RIVET

High tensile and shear strength for demanding applications.  
Special for fragile materials thanks to its wide riveting area.  
The locking system creates a vibration resistant joint.  
Ensures a strong grip on the mandrel head.



## LOCK BOLTS

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.





# BLIND RIVETS TYPES

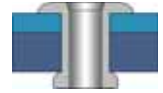
## SPEED RIVETS

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.



## SPECIAL RIVETS



### 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.

page 80



### RIVET SR

Resistant to humidity thanks to its special mandrel that plugs the hole of the blind rivet body. And resistant to vibrations.

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### GRIPMATE

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

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### PROFILE CLINCHER RIVET

Design made in a personalized way, on request. Used in the automotive industry and in metalwork for moldings. Stepped body.

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### MASS-RIVETS

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

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## ACCESSORIES



### NYLON CAPS FOR RIVETS

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



### 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 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.



### NEOPRENE WASHERS FOR RIVETS

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

One of Bralo's commitments is to find a way to meet the special product needs of its customers. We design specialty parts and products for you from your drawings - with a wide variety of materials and manufacturing methods.

### Crimp rivet

Rivets with multi-thickness behavior.

### Long mandrel rivet

Designed for special riveting machines.

### Rivet compatible with oval holes.

Designed to fix modules to solar panel structures.



### Profile clincher

Applications that require separation for later assembly.



### Conical rivet

Used when the hole is slightly oversized

### Slotted head

For special applications.



### Grooved mandrel rivet

Intended for riveters to have a better grip. Generally for applications with high breaking load.

## ICONS GLOSSARY



Air conditioning, lifting, furniture, gutters, containers, electrical appliances and home and industrial appliances.



Construction of ventilated facades, profiles, lifelines, metal structures, roofs and facilities.



Automotive, bodywork, truck aluminium sidewalls, tarpaulins and industrial vehicles sectors.



Locks, handles, brackets, hinges for mailboxes and safes.



Ventilated facades.



Solar energy.

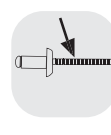


Available with long mandrel.



+S

Available with sealant over zinc plating.



Available with grooved mandrel.



+Zn

Under request, black Zinc-nickel galvanized rivets are made.



Under request, lacquered and anodized rivets are made. Under request minimum quantity and color according to RAL

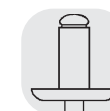


A4 INOX

Available in A4 stainless steel.



Available with countersunk head.



Available with wide head.

# COATINGS TYPES

## HOW TO CHOOSE THE PROTECTIVE FINISH OR COATING

COATING	TYPE	FACTORS INVOLVED			
		CORROSION CONDITIONS	TEMPERATURE RESISTANCE	APPEARANCE	MATERIAL
APPEARANCE-BASED FINISHES	Lacquered	Light	Moderate	By color	Alu/Steel/Inox
	Polished	Moderate	Moderate	Metal color	Alu/Copper
GALVANIC ZINC COATINGS	Zinc coated with transparent or iridescent passivation	Light	Moderate	Grey-iridescent gray	Steel
	Zinc coated with passivation or finished in black	Light	Moderate	Black	Steel
	Zinc with special passivation	Light, Moderate, Severe		Depend on passivation	Steel
GALVANIC ALLOY COATINGS	Zinc-Iron plating	Light, Moderate, Severe	Moderate	Matt Grey	Steel
	Zinc-Iron plating with black finished	Light, Moderate, Severe	Moderate	Matt-black	Steel
	Zinc-Nickel plating	Severe	Good	Grey	Steel
	Zinc-Nickel plating with black finished	Severe	Good	Black	Steel
NON-GALVANIC PROTECTIVE COATINGS	DeltaSeal Grey (aluminium base metal)	Severe	Moderate	Grey silver	Alu/Steel
	Delta seal black (aluminium base metal)	Severe	Moderate	Matt-black	Alu/Steel
PASSIVATION PROCESSES	Aluminium anodisation	Severe	Moderate	Silver or black	Alu
	Stainless steel passivation	Very severe	Good	Without changes	Inox

■ Light  
■ Moderate  
■ Severe  
■ Very severe

All coating are Cr VI (hexavalent chromium) free.

## MOST COMMON COATINGS



## EPOXIC 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 130 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.



## LACQUERS

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.

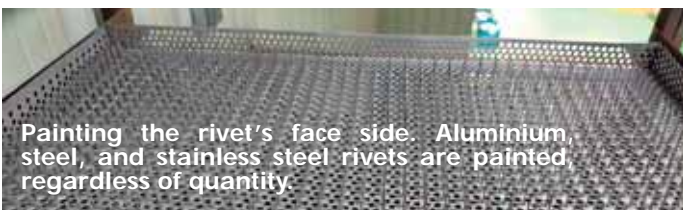


To improve the behavior of all the pieces in the open, various protective coatings and finishes are used, such as lacquering, where we find manual lacquering and automatic lacquering.



Acrylic paint is **highly durable** and **highly resistant to ultraviolet rays as well to sun exposure**. It is characterized by its mixture system with colour accuracy.

## MANUAL COATING



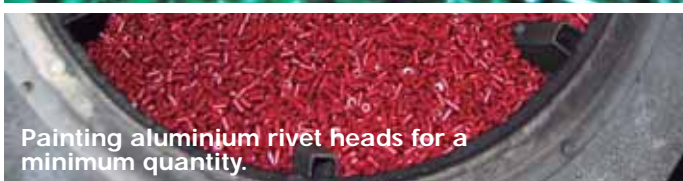
Painting the rivet's face side. Aluminium, steel, and stainless steel rivets are painted, regardless of quantity.

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

The already-assembled rivets are placed in trays; the head is lacquered, the fair face, the part that remains in the application.

This lacquering system is intended for clients with specific applications, such as ventilated facades.

## AUTOMATIC COATING



Painting aluminium rivet heads for a minimum quantity.

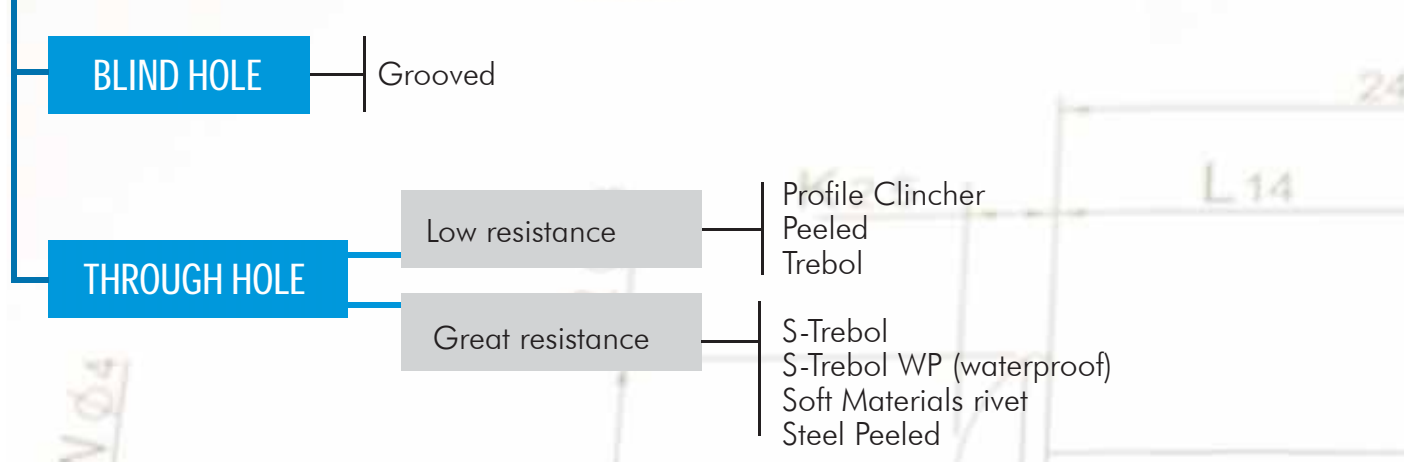
At BRALO, we are characterized by being coating specialists. The production process consists of painting the rivet heads in an automatic device, connected to a motorgenerator. The equipment has a control panel to regulate the paint valves, pump movement, and the heating equipment.

Aluminum rivet heads are lacquered for construction and automotive applications.

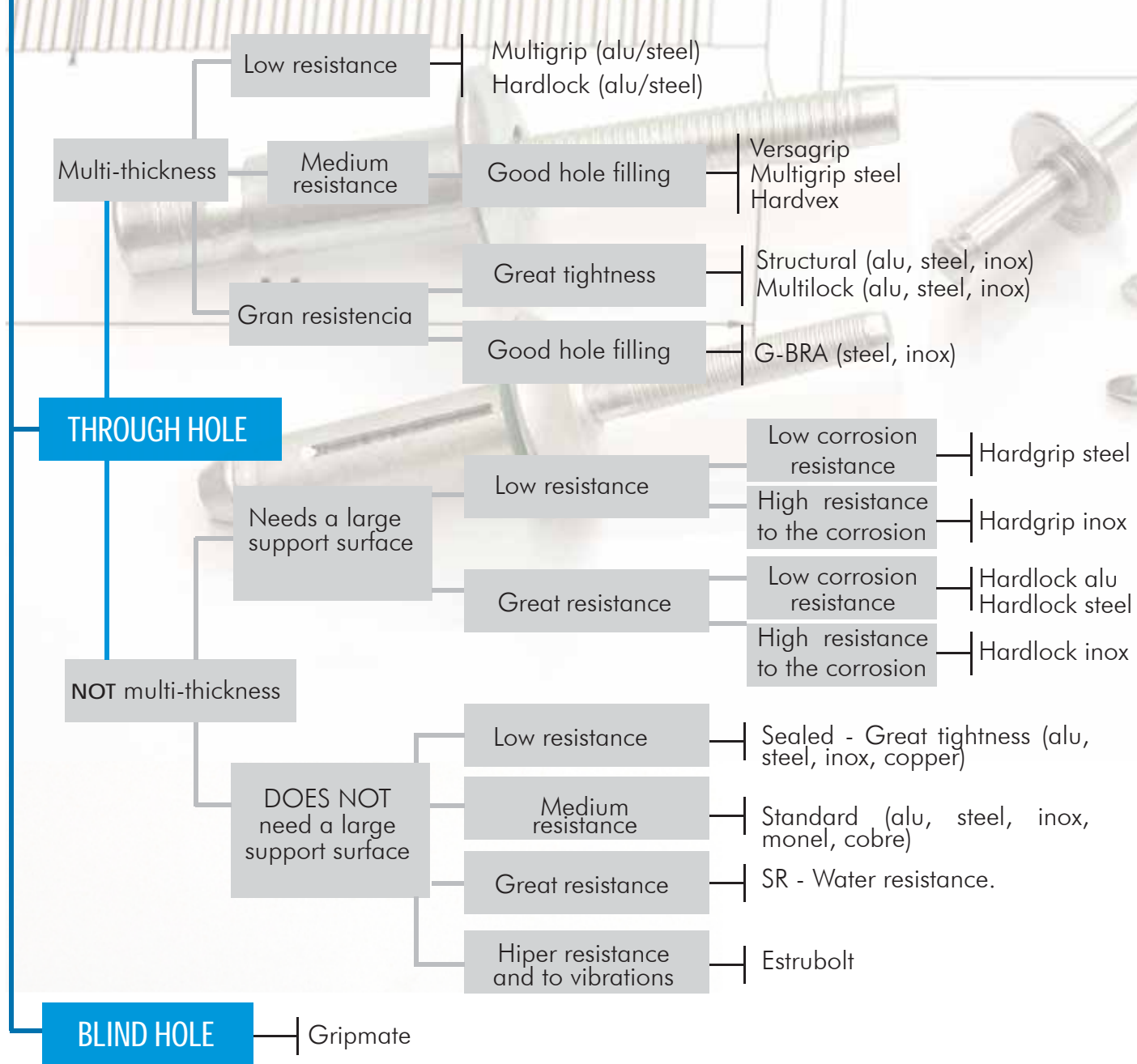
# RIVET SELECTION GUIDE

## HOW TO CHOOSE THE RIGHT PRODUCT FOR YOUR APPLICATION

### SOFT BACK MATERIAL



### RESISTANT BACK MATERIAL





# ALUMINIUM RIVETS

Various protective coatings or surface treatments are used to improve the behavior of all parts for outdoors applications.



## POSSIBLE COATINGS AND FINISHES

COATINGS AND PASSIVATION	APPEARANCE	USE IN CORROSION CONDITIONS	CHARACTERISTICS
Anodised	Silver or black	Severe	Protects from abrasion
Lacquering (epoxic painted)	According to color	Light	Available in more than 130 colours
Delta-Seal grey	Grey	Severe	Good conductivity
Delta-Seal black	Black	Severe	Good conductivity
Delta Protekt	Grey	Severe	Supports back painting
Polished	Metal	Moderate	Shiny and homogeneous surface

## ALUMINIUM RIVETS

Standard rivet  
 Multigrip rivet  
 Versagrip rivet  
 Flor rivet  
 Trebol rivet  
 S-Trebol WP rivet  
 Grooved rivet

Soft materials rivet  
 Sealed rivet  
 Structural rivets  
 Multilock rivet  
 Hardlock rivet  
 SR rivet  
 Profile clincher

# STANDARD RIVETS

Fixing elements that guarantee a secure and firm fixation. They are designed for joining all types of materials when an extra strong clamping force is not required.

- Different materials can be joined, with different types of manufacture.
- Wide range of thickness to rivet.
- Fast, cheap and high-quality assembly.

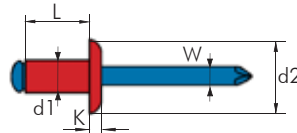


## ALUMINIUM/STEEL







Al Mg 3,5

Zincplated 3  $\mu$

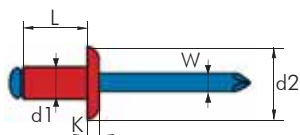
## STANDARD RIVET Dome head








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				
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
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							

Tests according to EN ISO 14589



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					
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							
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
	40					150	900	30,0	35,0			01010005040
	45					100	600	35,0	40,0			01010005045
	50					100	600	40,0	45,0			01010005050
	6,0					8	6,10	12,00	1,80			3,20
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	01010006412
	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
22		1.000	9,0	16,0	G1010007822							

Tests according to EN ISO 14589





BRONZE

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




WHITE

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

9005

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




### 1015

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




### 7016

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




### 7038

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




### 9006

				
d1 Ø mm	L Nominal mm	GREY PAINT RAL 9006 REFERENCE	PACKAGING	
				
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




### 7024

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

### 8017




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

### 5010




				
d1 Ø mm	L Nominal mm	BLUE PAINT RAL 5010 REFERENCE	PACKAGING	
				
4,0	8	01010A04008	500	4.000
	10	01010A04010	500	4.000
	12	01010A04012	500	3.000
4,8	10	01010A04810	500	3.000
	12	01010A04812	500	3.000






8014

				
d1 Ø mm	L Nominal mm	BROWN PAINT RAL 8014 REFERENCE	PACKAGING  	
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

6005

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

3000

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

COPPER

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



Under request 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	5015	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		CU	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									

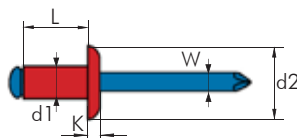
The name of the colours is for guidance only.  
Example: Bronze rivet 4,8x35 01010AB4835.

# TUBE STANDARD RIVET Dome head




## ALUMINIUM/STEEL

Al Mg 3

Zincplated 3 μ



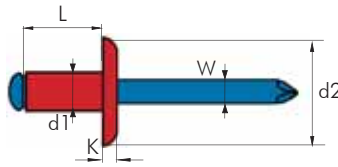
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


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

Tests according to EN ISO 14589



ALUMINIUM



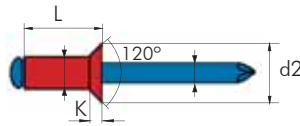
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		E MIN. mm MAX.		 (N)	 (N)	REFERENCE							
						 Inner	 Outer												
3,2	6	3,30	9,50	1,10	1,80	500	4.000	0,5	3,5	750	1.100	01030003206							
	8					500	4.000	3,5	5,0			01030003208							
	10					500	4.000	5,0	7,0			01030003210							
	12					500	4.000	7,0	9,0			01030003212							
	16					500	3.000	9,0	13,0			01030003216							
4,0	6	4,10	12,00	1,40	2,20	500	3.000	1,0	3,0	1.250	1.800	01040004006							
	8					500	3.000	3,0	5,0			01040004008							
	10					500	3.000	5,0	6,5			01040004010							
	12					250	2.000	6,5	8,5			01040004012							
	14					250	2.000	8,5	10,5			01040004014							
	16					250	2.000	10,5	12,5			01040004016							
	18					250	2.000	12,5	14,5			01040004018							
	20					250	2.000	14,5	16,5			01040004020							
4,8	10	4,90	14,00	1,80	2,65	250	1.500	4,5	6,0	1.850	2.600	01030004810							
	12					250	1.500	6,0	8,0			01030004812							
	14					250	1.500	8,0	10,0			01030004814							
	16					250	1.500	10,0	12,0			01030004816							
	18					200	1.200	12,0	14,0			01030004818							
	21					200	1.200	14,0	17,0			01030004821							
	24					150	900	17,0	20,0			01030004824							
	27					150	900	20,0	23,0			01030004827							
	30					150	900	23,0	25,0			01030004830							
	35					100	600	25,0	30,0			01030004835							
	40					100	600	30,0	35,0			01030004840							
	45					100	600	35,0	40,0			01030004845							
	50					100	600	40,0	45,0			01030004850							
4,8	10	4,90	16,00	1,80	2,65	250	1.500	4,5	6,0	1.850	2.600	01040004810							
	12					250	1.500	6,0	8,0			01040004812							
	14					200	1.200	8,0	10,0			01040004814							
	16					200	1.200	10,0	12,0			01040004816							
	18					200	1.200	12,0	14,0			01040004818							
	21					150	900	14,0	17,0			01040004821							
	24					150	900	17,0	20,0			01040004824							
	27					150	900	20,0	23,0			01040004827							
	30					100	600	23,0	25,0			01040004830							
	35					100	600	25,0	30,0			01040004835							
	5,0					8	5,10	11,00	1,60			2,65	250	2.000	3,0	4,5	2.150	3.100	01031005008
						10							250	2.000	4,5	6,0			01031005010
						12							250	2.000	6,0	8,0			01031005012
14		250	1.500	8,0	10,0	01031005014													
16		250	1.500	10,0	12,0	01031005016													
18		250	1.500	12,0	14,0	01031005018													
20		250	1.500	14,0	16,0	01031005020													
25		250	1.500	16,0	21,0	01031005025													
30		200	1.200	21,0	25,0	01031005030													
5,0	8	5,10	14,00	1,80	2,65	250	2.000	3,0	4,5	2.150	3.100	01030005008							
	10					250	1.500	4,5	6,0			01030005010							
	12					250	1.500	6,0	8,0			01030005012							
	14					250	1.500	8,0	10,0			01030005014							
	16					250	1.500	10,0	12,0			01030005016							
	18					200	1.200	12,0	14,0			01030005018							
	20					200	1.200	14,0	16,0			01030005020							
	25					150	900	16,0	21,0			01030005025							
	30					150	900	21,0	25,0			01030005030							
	6,4					10	6,50	15,00	2,00			3,60		1.000	2,0	4,0	3.400	4.850	G1035006410
12			1.000	3,0	6,0	G1035006412													

Tests according to EN ISO 14589








**STANDARD RIVET**  
Countersunk head 120°

**ALUMINIUM/STEEL**  
Al Mg 3,5 Zinclated 3 μ



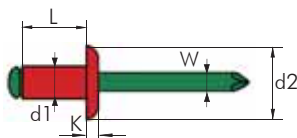
UNE - EN ISO 15978







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					
2,4	6	2,50	5,00	0,80	1,45	1.000	8.000	2,0	4,0	350	550	01020002406
	8					1.000	8.000	4,0	6,0			01020002408
	10					1.000	8.000	6,0	8,0			01020002410
	12					1.000	8.000	8,0	9,5			01020002412
3,0	6	3,10	6,00	1,10	1,80	500	4.000	2,0	3,5	550	850	01020003006
	8					500	4.000	3,5	5,0			01020003008
	10					500	4.000	5,0	7,0			01020003010
	12					500	4.000	7,0	9,0			01020003012
	14					500	4.000	9,0	11,0			01020003014
	16					500	4.000	11,0	13,0			01020003016
18	500	4.000	13,0	15,0	01020003018							
3,2	6	3,30	6,40	1,10	1,80	500	4.000	2,0	3,5	750	1.100	01020003206
	8					500	4.000	3,5	5,0			01020003208
	10					500	4.000	5,0	7,0			01020003210
	12					500	4.000	7,0	9,0			01020003212
	15					500	4.000	9,0	11,0			01020003215
	18					500	4.000	11,0	13,0			01020003218
4,0	6	4,10	7,80	1,40	2,20	500	4.000	1,5	3,0	1.250	1.800	01020004006
	8					500	4.000	3,0	5,0			01020004008
	10					500	4.000	5,0	6,5			01020004010
	12					500	3.000	6,5	8,5			01020004012
	14					500	3.000	8,5	10,5			01020004014
	16					500	3.000	10,5	12,5			01020004016
	18					500	3.000	12,5	14,5			01020004018
	20					500	3.000	14,5	16,5			01020004020
4,8	6	4,90	9,50	1,80	2,65	500	3.000	2,0	3,0	1.850	2.600	01020004806
	8					500	3.000	3,0	4,5			01020004808
	10					500	3.000	4,5	6,0			01020004810
	12					500	3.000	6,0	8,0			01020004812
	14					250	2.000	8,0	10,0			01020004814
	16					250	2.000	10,0	12,0			01020004816
	18					250	1.500	12,0	14,0			01020004818
	21					250	1.500	14,0	17,0			01020004821
	24					200	1.200	17,0	20,0			01020004824
	27					200	1.200	20,0	23,0			01020004827
	30					200	1.200	23,0	25,0			01020004830
	35					150	900	25,0	30,0			01020004835
5,0	6	5,10	9,50	1,80	2,65	500	3.000	2,0	3,0	2.150	3.100	01020005006
	8					500	3.000	3,0	4,5			01020005008
	10					500	3.000	4,5	6,0			01020005010
	12					500	3.000	6,0	8,0			01020005012
	14					250	2.000	8,0	10,0			01020005014
	16					250	2.000	10,0	12,0			01020005016
	18					250	2.000	12,0	14,0			01020005018
	20					250	1.500	14,0	16,0			01020005020
	25					200	1.200	16,0	21,0			01020005025
30	200	1.200	21,0	25,0	01020005030							
6,0	10	6,10	12,00	1,80	3,20	250	1.500	3,0	5,0	3.200	4.600	01020006010
	12					250	1.500	5,0	7,0			01020006012
	14					250	1.500	7,0	9,0			01020006014
	16					250	1.500	9,0	11,0			01020006016
	18					200	1.200	11,0	13,0			01020006018
	20					200	1.200	13,0	15,0			01020006020
6,4	12	6,50	13,00	1,90	3,60	250	1.500	3,0	6,0	3.800	4.850	01020006412
	14					250	1.500	6,0	9,0			01020006414
	16					200	1.200	7,0	10,0			01020006416
	18					200	1.200	10,0	12,0			01020006418
	20					200	1.200	12,0	14,0			01020006420



Tests according to EN ISO 14589

ALUMINIUM



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												
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							
	10					500	4.000	5,0	- 7,0			01019003010							
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	500	3.000	0,5	- 3,0	1.850	2.600	01019004806
						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							
	50					100	600	40,0	- 45,0			01019005050							
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							
6,4	8	6,50	13,00	2,20	3,60	250	1.500	1,0	- 2,0	3.400	4.850	01019006408							
	10					250	1.500	2,0	- 4,0			01019006410							
	12					250	1.500	3,0	- 6,0			01019006412							
	15					250	1.500	6,0	- 9,0			01019006415							
	18					200	1.200	9,0	- 12,0			01019006418							
	22					200	1.200	12,0	- 16,0			01019006422							
	26					150	900	16,0	- 20,0			01019006426							
	30					150	900	20,0	- 24,0			01019006430							
	35					100	600	24,0	- 29,0			01019006435							
	50					500	29,0	- 42,0	01019006450										

Tests according to EN ISO 14589

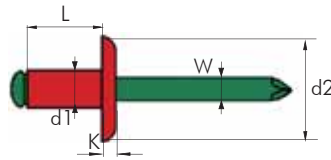





# STANDARD RIVET Large head

## ALUMINIUM/INOX A2

Al Mg 3,5

AI SI 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							
4,0	8	4,10	12,00	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		
4,0	18	4,10	15,00	1,60	2,20	250	2.000	8,0	13,0	1.800	3.800	01042004018		
	25							12,0	18,0			01042004025		
4,8	21,0	4,90	11,00	1,60	2,65	250	1.500	14,0	17,0	1.850	2.600	01038004821		
4,8	10	4,90	14,00	1,80	2,65	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
4,8	10	4,9	16,00	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
5,0	10	5,10	11,00	1,60	2,65	250	2.000	4,5	6	2.150	3.100	01038005010		
	12							250	2.000			6	8	01038005012
	14							250	1.500			8	10	01038005014
	16							250	1.500			10	12	01038005016
	18							250	1.500			12	14	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
5,0	8	5,10	14,00	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



Ventilated facades



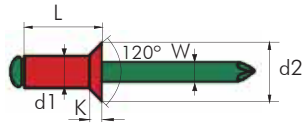


# ALUMINIUM/INOX A2







Al Mg 3,5

AISI 304

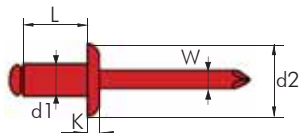
## STANDARD RIVET Countersunk head 120°



ALUMINIUM

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				
4,0	8	4,10	7,80	1,40	2,20	500	4.000	3,0 - 5,0	1.250	1.800	01029004008
	10					500	4.000	5,0 - 6,5			01029004010
	12					500	3.000	6,5 - 8,5			01029004012
	16					500	3.000	10,5 - 12,5			01029004016
	18					500	3.000	12,5 - 14,5			01029004018
4,8	12	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

Al Mg Si



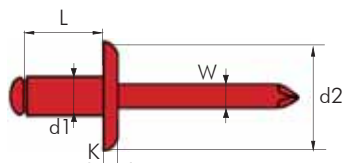
ALUMINIUM

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	3,30	6,50	0,80	1,95	500	4.000	1,5	3,5	400	500	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													
30		200	1.200	23,0	27,0	01160004830													
35		150	900	27,0	30,0	01160004835													
50		100	600	40,0	45,0	01160004850													



Tests according to EN ISO 14589






## STANDARD RIVET Large head



## ALUMINIUM/ALUMINIUM

Al Mg Si



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	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
4,8	10	4,90	16,00	2,00	2,95	1.500	1.500	4,0	6,0	1.000	1.300	G1184004810
	14					1.500	1.500	8,0	10,0			G1184004814

Tests according to EN ISO 14589

# VERSAGRIP RIVETS

It is especially suitable for working with plastics and thin metal sheets.  
Thanks to its homogeneous riveting it does not deform the surfaces.

- The inventory of rivets is reduced since with only three measures is covered a thickness range by 3 to 20 mm.
- Wide expansion of the blind side, the load and the clamping force are distributed.
- Suitable for working with plastics and thin metal sheets.

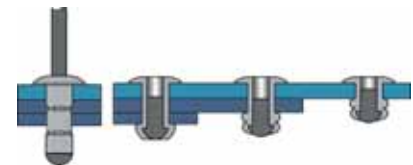
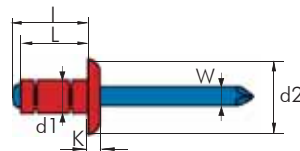








Double crimp for better folding



**ALUMINIUM/STEEL**  
Al Mg 2,5      Zincplated 3 μ

**VERSAGRIP RIVET**  
Dome head



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	 MIN. mm MAX	 (N)	 (N)	REFERENCE
						 Inner	 Outer					
4,0	10,5	4,10	8,00	1,40	2,20	3.000	13,5	13,5	3,0 - 5,5	1060	1680	G108A004010 G108A004013
	5.000					15,5	3,5 - 9,5					
4,8	10,2	4,90	9,00	1,40	2,65	2.500	13,5	13,5	0,5 - 6,5	1500	2400	G108A004810 G108A004812 G108A004815 G108A004817 G108A004819 G108A004820 G108A004825 G108A004830
	2.000					15,8	2,5 - 8,5					
	2.000					18,8	4,5 - 11,0					
	2.000					21,0	6,5 - 13,0					
	1.500					23,0	8,5 - 15,5					
	1.500					25,0						
6,4	12,5	6,5	13,00	1,80	3,60	250	17,0	17,0	1,0 - 6,0	2800	4000	01080006412 01080006415 G1080006418 G1080006425
	200					20,0	4,0 - 9,0					
	1.000					23,0	6,0 - 12,0					
	1.000					30,0	9,0 - 19,0					

Tests according to EN ISO 14589

# MULTIGRIP RIVETS

Posee una formación más amplia de la cabeza. Ideal para chapas delgadas de metal, en especial para trabajos de reparación.



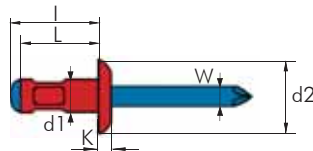
- Multi-thickness rivet covering a thickness range from 1 to 20 mm.
- The load and the clamping force remain distributed thanks to its wide expansion of the blind side.
- Used as a metal sheet repair rivet.







Pressing for better filling of the drill hole



**MULTIGRIP RIVET**  
Dome head

**ALUMINIUM/STEEL**  
Al Mg 2,5      Zincoated 3 μ



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING  Inner  Outer	I Max. mm	 E MIN. mm MAX	 (N)	 (N)	REFERENCE			
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	
	12,5					250	2.000	16,0	3,5	- 8,5				01080004812
	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



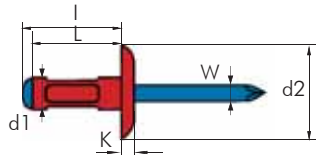
# ALUMINIUM/STEEL




Al Mg 2,5

Zincplated 3 μ

## MULTIGRIP RIVET Large head

ALUMINIUM



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		l Max. mm	E MIN. mm MAX.		(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
	12,0					500	4.000	14,5	4,5	- 9,0			01100003212
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	2300	01100004810
	17,0					150	900	20,0	6,0	- 12,5			01100004817
	25,0					100	600	28,0	12,0	- 19,5			01100004825

Tests according to EN ISO 14589

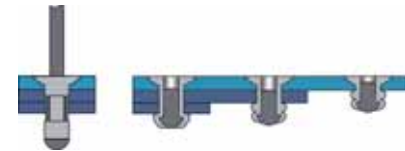
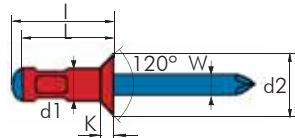





# ALUMINIUM/STEEL

Al Mg 2,5

Zincplated 3 μ

## MULTIGRIP RIVET Countersunk head 120°



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		l Max. mm	E MIN. mm MAX.		(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

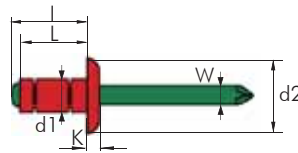
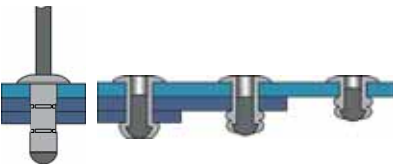







## VERSAGRIP RIVET Dome head

## ALUMINIUM/INOX A2

Al Mg 2,5

AISI 304



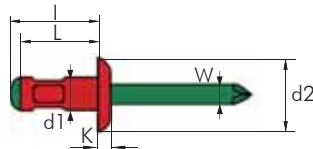
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E MIN. mm MAX.		 (N)	 (N)	REFERENCE				
						 Inner	 Outer										
4,8	10,0	4,90	9,50	1,40	2,75	3.000	16,50	0,5	-	6,5	1500	2400	G108I004810				
	15,5								-	11,0			G108I004815				
	16,5									2000			18,70	4,5	-	12,0	G108I004816
	25,0									1500				11,0	-	19,5	G108I004825
	30,0									1500				15,0	-	24,0	G108I004830
6,4	12,5	6,50-6,70	13,00	1,80	3,60	250	1.500	17,00	1,0	-	6,0	2800	4000	01089006412			
	15,5					100	800	20,00	4,0	-	9,0	01089006415					
	20,5						1000	30,00	8,0	-	14,0	G1089006420					
	25,5						1000	35,00	9,0	-	19,0	G1089006425					






## MULTIGRIP RIVET Dome head

## ALUMINIUM/INOX A2

Al Mg 2,5

AISI 304



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E MIN. mm MAX.		 (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





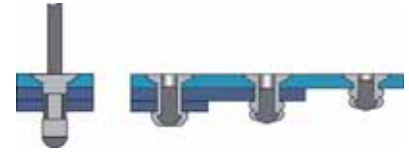
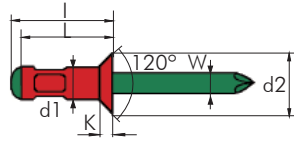
# ALUMINIUM/INOX A2






Al Mg 2,5

AISI 304

## MULTIGRIP RIVET Countersunk head 120°

ALUMINIUM



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E MIN. mm MAX.		 (N)	 (N)	REFERENCE
						 Inner	 Outer						
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
	250					1.500	20,0	6,0	- 12,0			01099004816	

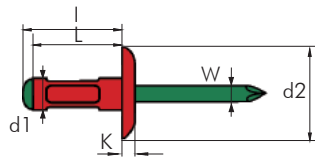
Tests according to EN ISO 14589






# ALUMINIUM/INOX A2

Al Mg 2,5

AISI 304

## MULTIGRIP RIVET Large head



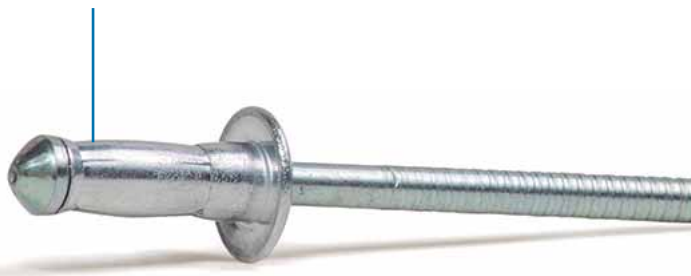
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E MIN. mm MAX.		 (N)	 (N)	REFERENCE
						 Inner	 Outer						
4,0	13,0	4,10-4,30	12,00	1,60	2,20	250	2.000	15,5	3,0	- 9,0	1500	2400	01109004013
4,8	10,5	4,90-5,00	16,00	1,80	2,75	200	1.200	14,0	1,5	- 6,0	1500	2400	01109004810
	150				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

# HARDLOCK RIVETS

Especially suitable for plastic-to-metal bonding applications and with the characteristic of being a multi-thickness rivet.

Rear bulb for high tensile strength

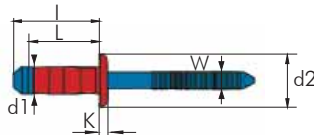
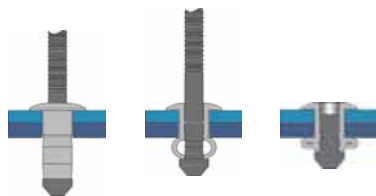



- Wide range of fixing thickness
- Optimal distribution of the tightening on the blind face thanks to its larger contact surface.
- High tensile strength thanks to its rear bulb.
- Optimal mandrel retention.
- Grooved mandrel for longer jaw life.



## HARDLOCK RIVET Dome head

**ALUMINIUM/STEEL**  
EN AW 5052      Zincplated 3 μ



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E			(N)	(N)	REFERENCE
						Inner	Outer		MIN, mm	MAX				
4,8	10,8	4,9-5,1	9,4	1,4	2,8	2.500	13,7	1,5	-	6,0	1200	1900	G1811004811	
	3.000					15,7	3,0	-	7,0	G1811004813				
	2.500					17,7	4,0	-	8,5	G1811004815				
	2.000					19,7	6,0	-	10,5	G1811004817				

# GROOVED RIVETS

ALUMINIUM

Aluminium alloy fastener element, suitable for applications with blind drills. The Bralo Grooved Rivet guarantees great grip efficiency.

- 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.

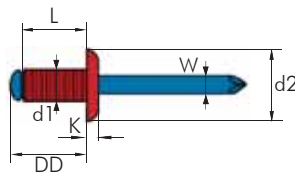








## ALUMINIUM/STEEL

Al Mg 3,5

Zincplated 3 μ

## GROOVED RIVET Dome head



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 E mm MAX.	 (N)	 (N)	REFERENCE	DD (Drill depth) mm
						 Inner	 Outer					
3,2	10	3,40	6,50	0,80	1,80	500	4.000	6,0	700	1100	01700003210	13
4,0	8	4,20	8,00	1,20	2,20	500	4.000	4,0	900	1.400	01700004008	11
	12					500	3.000	6,0			01700004012	15
	16					500	3.000	8,0			01700004016	19
4,8	8	5,00	9,50	1,40	2,65	500	3.000	4,0	1.600	2600	01700004808	11
	10					250	2.000	6,0			01700004810	13
	12					250	2.000	8,0			01700004812	15
	14					250	2.000	10,0			01700004814	17
	16					250	1.500	12,0			01700004816	19
	18					250	1.500	13,0			01700004818	21
	21					250	1.500	15,0			01700004821	24
24	200	1.200	20,0	01700004824	27							

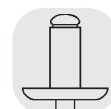
Tests according to EN ISO 14589

# SOFT MATERIALS RIVETS

Fastener element that guarantees a strong and safe joint of low resistance materials, such as plastic or wood.

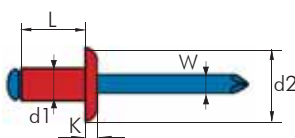








- It does not deform surfaces after the riveting process is finished.
- They provide excellent torque values.
- Good resistance to vibrations.



## SOFT MATERIALS RIVETS Dome head

**ALUMINIUM/STEEL**  
Al Mg 3,5      Zincplated 3 μ



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				
3,0	6	3,10	6,30	0,80	1,80	4.000		1,5 - 3,5	750	850	G1350003006
3,2	10	3,30	6,40	1,00	1,80	5.000		5,0 - 7,0	750	1100	G1350003210
4,0	6	4,10	8,00	1,40	2,20	4.000		1,5 - 3,0	1200	1.800	G1350004006
	8					4.000		3,0 - 5,0			G1350004008
	10					4.000		5,0 - 6,5			G1350004010
	12					4.000		6,5 - 8,5			G1350004012
	14					4.000		8,5 - 10,5			G1350004014
	16					4.000		10,5 - 12,5			G1350004016
	18					4.000		12,5 - 14,5			G1350004018
	20					4.000		14,5 - 16,5			G1350004020
4,8	6	4,90	9,50	1,40	2,73	4.000		0,5 - 3,0	2000	2700	G1350004806
	8					3.500		3,0 - 4,5			G1350004808
	10					3.500		4,5 - 6,0			G1350004810
	12					3.000		6,0 - 8,0			G1350004812
	14					2.500		8,0 - 10,0			G1350004814
	16					2.500		10,0 - 12,0			G1350004816
	18					2.000		12,0 - 14,0			G1350004818
	21					2.000		14,0 - 17,0			G1350004821
	24					1.500		17,0 - 20,0			G1350004824
	27					1.500		20,0 - 23,0			G1350004827
	30					1.500		23,0 - 25,0			G1350004830
	32					1.000		25,0 - 27,0			G1350004832
	35					1.000		25,0 - 30,0			G1350004835
5,0	10	5,10	9,50	1,40	2,73	4.000		4,5 - 6,0	2250	3000	G1350005010
	14					3.000		8,0 - 10,0			G1350005014
	16					2.500		10,0 - 12,0			G1350005016
	18					2.000		12,0 - 14,0			G1350005018
	20					2.000		14,0 - 16,0			G1350005020
	25					1.500		16,0 - 21,0			G1350005025
30					1.500		21,0 - 25,0			G1350005030	
6,0	18	6,10	12,00	1,50	3,20	1.500		11,0 - 13,0	2500	3300	G1350006018

Tests according to EN ISO 14589

# PEELED RIVETS

ALUMINIUM

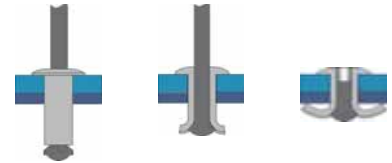
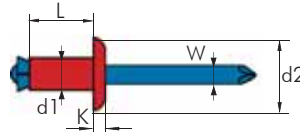
Aluminium alloy break-mandrel blind rivet with a big bearing area in the shape of a flower with four petals.







- 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.



**ALUMINIUM/STEEL**  
Al Mg 3,5      Zincplated 3 μ

PEELED RIVET  
Dome head



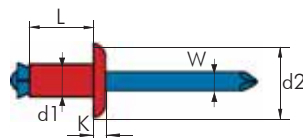
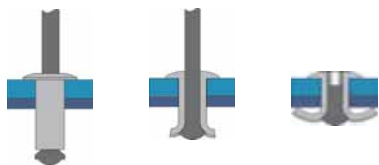
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 E MIN. mm MAX	 (N)	 (N)	REFERENCE
						 Inner	 Outer				
3,2	08	3,40	6,50	0,80	1,80	500	4.000	3,5	900	700	01130003208
	10					500	4.000	5,0			01130003210
	12					500	4.000	7,0			01130003212
	14					500	4.000	9,0			01130003214
	16					500	3.000	11,0			01130003216
	18					500	3.000	13,0			01130003218
4,0	08	4,20	8,00	1,00	2,20	500	4.000	4,0	1200	1400	01130004008
	10					500	4.000	6,0			01130004010
	12					500	3.000	8,0			01130004012
	14					500	3.000	10,0			01130004014
	16					500	3.000	12,0			01130004016
	18					500	3.000	14,0			01130004018
	20					500	3.000	16,0			01130004020
	25					250	1.500	21,0			01130004025
	4,8					10	5,00	9,50			1,10
12		500	3.000	7,0	01130004812						
14		250	2.000	9,0	01130004814						
16		250	2.000	11,0	01130004816						
18		250	1.500	13,0	01130004818						
21		250	1.500	16,0	01130004821						
24		200	1.200	19,0	01130004824						
27		200	1.200	22,0	01130004827						
30		200	1.200	25,0	01130004830						
32		200	1.200	27,0	01130004832						
35		200	1.200	30,0	011300048352						
40		150	900	32,0	01130004840						
45		100	600	37,0	01130004845						
50	100	600	42,0	01130004850							

# PEELED RIVET Dome head







# ALUMINIUM/STEEL

Al Mg 3,5

Zincplated 3 μ





ALUMINIUM

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	40	5,20	9,50	1,50	2,73	150	900	32,0	1900	2300	01130005040
	45					100	600	37,0			01130005045
	50					100	600	42,0			01130005050
	55					100	600	47,0			01130005055
	60						500	52,0			G1130005060
	65						500	57,0			G1130005065
	70						500	62,0			G1130005070
	75						500	68,0			G1130005075
	80						500	72,0			G1130005080
	90						500	80,0			G1130005090
	100						500	90,0			G11300050100
	110						500	100,0			G11300050110
	120						500	110,0			G11300050120
	130						250	120,0			G11300050130
	140						250	130,0			G11300050140
	150						250	140,0			G11300050150
	160						250	150,0			G11300050160
	170						250	160,0			G11300050170
	180						250	170,0			G11300050180
190		250	180,0	G11300050190							
* 6,4	35	6,60	12,00	1,80	3,50	100	600	25,0	2450	3500	01130006435
	50					500	40,0	G1130006450			
	80					250	70,0	G1130006480			
	100					250	90,0	G11300064100			
	120					250	110,0	G11300064120			
	150					250	140,0	G11300064150			
	175					200	165,0	G11300064175			
	190					150	180,0	G11300064200			

Tests according to EN ISO 14589

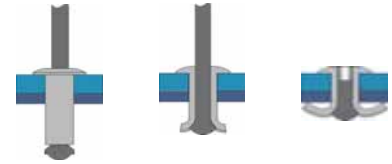
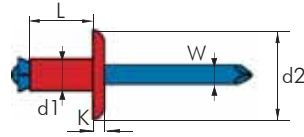
\*Note: Peeled rivets with aluminium body Al Mg 3.







## COLOURS IN STOCK

d1 mm	L Nominal mm	BLACK PAINT REFERENCE	WHITE PAINT REFERENCE	PACKAGING	
				 Inner	 Outer
4,0	8	01130N04008	01130BL4008	500	4.000
	10	01130N04010	01130BL4010	500	4.000
	12	01130N04012	01130BL4012	500	3.000
	14	01130N04014	01130BL4014	500	3.000
	16	01130N04016	01130BL4016	500	3.000
	18	01130N04018	01130BL4018	500	3.000
	20	01130N04020	01130BL4020	500	3.000
	25	01130N04025	01130BL4025	250	1.500
4,8	10	01130N04810	01130BL4810	500	3.000
	12	01130N04812	01130BL4812	500	3.000
	14	01130N04814	01130BL4814	250	2.000
	16	01130N04816	01130BL4816	250	2.000
	18	01130N04818	01130BL4818	250	1.500
	21	01130N04821	01130BL4821	250	1.500
	24	01130N04824	01130BL4824	200	1.200
	27	01130N04827	01130BL4827	200	1.200
	30	01130N04830	01130BL4830	200	1.200









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

Tests according to EN ISO 14589



d1 mm	L Nominal mm	BLACK PAINT	WHITE PAINT	PACKAGING	
		REFERENCE	REFERENCE	 Inner	 Outer
4,0	10	01150N04010	01150BL4010	500	3.000
	12	01150N04012	01150BL4012	250	2.000
	14	01150N04014	01150BL4014	250	2.000
	16	01150N04016	01150BL4016	250	2.000
	18	01150N04018	01150BL4018	250	1.500
	20	01150N04020	01150BL4020	250	1.500
4,8	10	01140N04810	01140BL4810	250	1.500
	12	01140N04812	01140BL4812	250	1.500
	14	01140N04814	01140BL4814	250	1.500
	16	01140N04816	01140BL4816	250	1.500
	18	01140N04818	01140BL4818	200	1.200
	21	01140N04821	01140BL4821	200	1.200
	27	01140N04827	01140BL4827	150	900



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.



Air conditioning, lifting, furniture, gutters, containers, electrical appliances and home and industrial appliances.



Construction of ventilated facades, profiles, lifelines, metal structures, roofs and facilities.



Automotive, bodywork, truck aluminium sidewalls, tarpaulins and industrial vehicles sectors.

## HEAD WITH SHAPE OF THREE PARTS

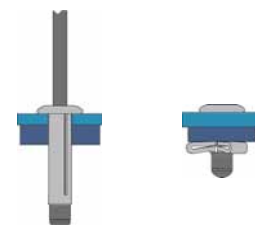
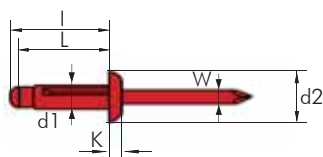
- This rivet is provided with a big counter head in the shape of three double parts offering a large contact area on the blind side. This large expansion on the blind side distributes the load and the clamping force, reducing the risk of crushing and the material breaking.
- The **S-Trebol** version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

ALUMINIUM



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	 E MIN. mm MAX.	 (N)	 (N)	REFERENCE
						 Inner	 Outer					
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

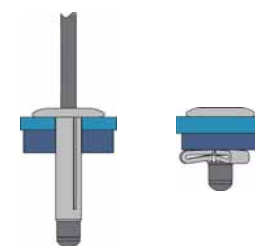
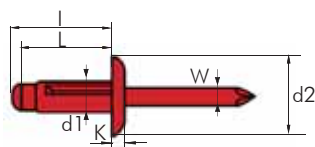
Tests according to EN ISO 14589







d1 mm	L Nominal mm	BLACK PAINT	WHITE PAINT	PACKAGING	
		REFERENCE	REFERENCE	 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



# ALUMINIUM/ALUMINIUM

## TREBOL RIVET Large head



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	 E MIN. mm MAX.	 (N)	 (N)	REFERENCE
						 Inner	 Outer					
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	15,3	5,00-5,30	14,00	1,80	2,82			18,00	1,0 - 4,0	1000	1250	01630004815
	20,5					200	1.200	23,00	1,0 - 9,0			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	23,00	1,0 - 9,0	1000	1250	01640004820
	24,5						1.000	27,00	4,0 - 12,0			G1640004824

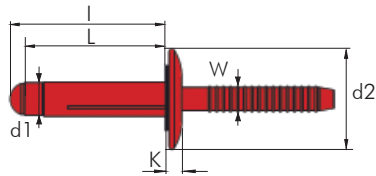
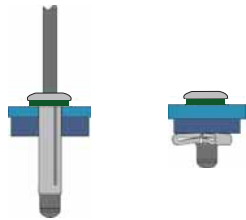
Tests according to EN ISO 14589








## S-TREBOL RIVET Dome head

## ALUMINIUM/ALUMINIUM

ALUMINIUM

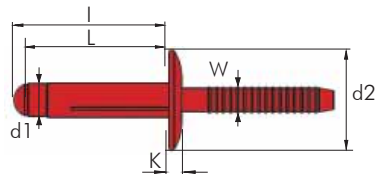
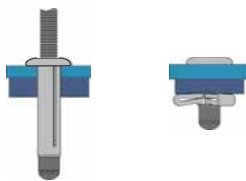







d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E MIN. mm MAX.		 (N)	 (N)	REFERENCE
						 Inner	 Outer						
5,2	17,0	5,30-5,60	11,40	2,20	3,10	250	1.500	19,75	0,5	- 4,8	3000	1700	01650005217
	20,5					250	1.500	23,75	0,5	- 5,1			01650005220
	26,5					200	1.200	29,75	4,5	- 11,5			01650005226

Tests according to EN ISO 14589

## S-TREBOL RIVET WITHOUT WASHER Dome head

## ALUMINIUM/ALUMINIUM



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E MIN. mm MAX.		 (N)	 (N)	REFERENCE
						 Inner	 Outer						
5,2	20,5	5,30-5,60	11,40	2,00	3,10	250	1.500	23,75	0,5	5,1	3000	1750	01660005220
	26,5					200	1.200	29,75	4,5	11,5			01660005226

Tests according to EN ISO 14589

# S-TREBOL WP RIVET

ALUMINIUM

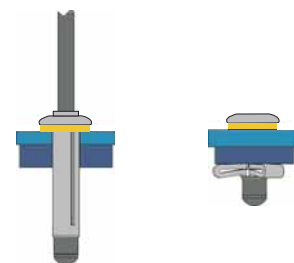
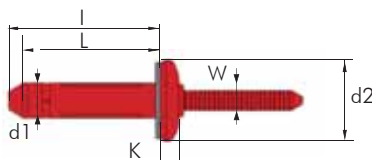
- Rivet sealed to the passage of water and other liquids and highly resistant to corrosion.
- Ideal for sheet metal supports.
- Provides additional resistance to both traction and shear.








## ALUMINIUM/ALUMINIUM

Ag 5

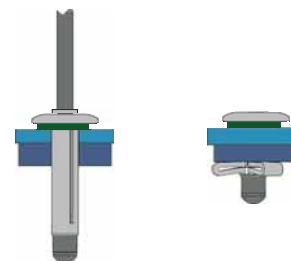
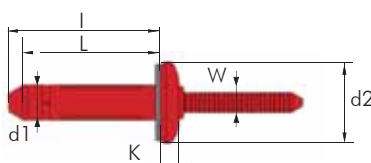
## S-TREBOL WP RIVET Dome head








d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E		 (N)	 (N)	REFERENCE		
						 Inner	 Outer		MIN. mm	MAX					
5,2	17,5	5,30-5,50	11,60	2,40	2,90	2000	20,90	1,3	-	4,8	3000	2000	G1656005217		
	19,1							2000	22,50	1,6				-	6,4
	22,2							1500	25,60	4,7				-	9,5
	25,4							1500	28,80	7,9				-	12,7
	28,60							1500	32,00	11,1				-	15,9
31,80	1500	35,20	14,3	-	19,1										
6,4	20,50	6,40-6,60	14,50	4,00	3,90	1000	25,50	1,6	-	6,4	4200	2500	G1656006420		
	23,70							1000	28,70	3,2				-	9,5
	26,80							1000	31,80	6,4				-	12,7
	30,00							1000	35,00	9,5				-	15,9
7,8	28,50	7,80-8,20	15,90	4,83	4,50	500	32,6	0,8	-	9,5	6230	4895	G1656007828		
	34,00							500	38,9	6,4				-	15,9

## ALUMINIUM/ALUMINIUM

## S-TREBOL WP RIVET Large head



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E		 (N)	 (N)	REFERENCE
						 Inner	 Outer		MIN. mm	MAX			
7,7	28,50	7,90-8,30	18,50	3,90	4,40	500	35,00	1,5	-	9,5	5300	4500	G1654007828
	34,00							500	41,00	6,5			

# SEALED RIVET

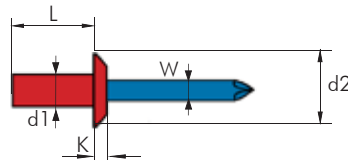
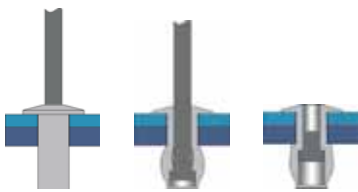
The joints are completely water tight which avoids leakage of liquids or vapours due to the locking of the mandrel inside the rivet body.

- They guarantee a solid fixation, they do not loosen due to dynamic stresses.
- The mandrel is completely locked within the head, avoiding electrical problems or pounding.
- It does not deform surfaces after the riveting process is finished (painted, glazed, etc.).
- Good performance with temperature variations.






## SEALED RIVET Dome head

**ALUMINIUM/STEEL**  
Al Mg 5 Lubricated



UNE - EN ISO 15973

d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		E		 (N)	 (N)	REFERENCE	
						Inner	Outer	MIN. mm	MAX				
3,2	6,5	3,30	6,40	1,00	1,65	500	4.000	0,5	- 2,0	1100	1450	01110003206	
	7,5					500	4.000	0,5	- 3,2				01110003207
	8,0					500	4.000	2,0	- 3,5				01110003208
	9,5					500	4.000	3,5	- 5,0				01110003209
	11,0					500	4.000	5,0	- 6,5				01110003211
12,5	500	4.000	6,5	- 8,0	01110003212								
4,0	8,5	4,10	7,90	1,40	2,20	500	4.000	0,5	- 3,5	1600	2200	01110004008	
	9,5					500	4.000	3,5	- 5,0				01110004010
	11,0					500	4.000	5,0	- 6,5				01110004011
	12,5					500	3.000	6,5	- 8,0				01110004013
	14,5					500	3.000	8,0	- 10,0				01110004015
4,8	8,5	4,90	9,30	1,70	2,65	500	3.000	0,5	- 3,5	2200	3100	01110004808	
	9,5					500	3.000	3,5	- 5,0				01110004810
	11,0					500	3.000	5,0	- 6,5				01110004811
	13,0					250	2.000	6,5	- 8,0				01110004813
	14,5					250	2.000	8,0	- 9,5				01110004814
	16,0					250	2.000	9,5	- 11,0				01110004816
	18,0					250	1.500	11,0	- 13,0				01110004818
	21,0					250	1.500	13,0	- 16,0				01110004821
25,0	200	1.200	16,0	- 20,0	01110004825								
6,4	12,5	6,50	12,50	2,40	3,60	250	1.500	1,5	- 6,5	3600	4900	01110006412	
	15,5					200	1.200	6,5	- 9,5				01110006415

Tests according to EN ISO 14589



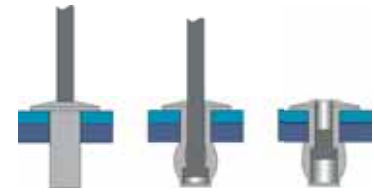
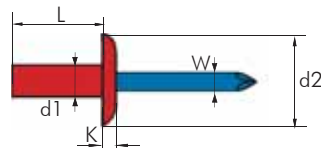


# ALUMINIUM/STEEL




Al Mg 5

Lubricated

## SEALED RIVET Large head



ALUMINIUM

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	11,0	4,90	14,00	1,80	2,65	250	1.500	3,0	- 6,5	2200	3100	01120004811
	13,0					250	1.500	6,5	- 8,0			01120004813
	18,0					200	1.200	11,0	- 13,0			01120004818

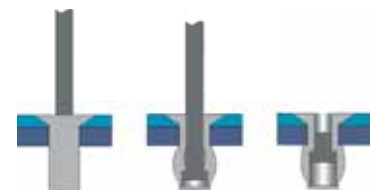
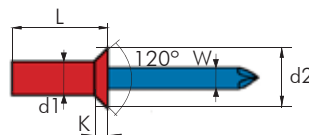
Tests according to EN ISO 14589

# ALUMINIUM/STEEL




Al Mg 5

Lubricated

## SEALED RIVET Countersunk head 120°



UNE - EN ISO 15974

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	8,5	3,30	5,90	1,30	1,70	500	4.000	2,5	- 4,5	1100	1450	01112003209				
4,0	9,5											4,10	7,60	1,70	2,20	500
	4,8	14,5	4,90	9,50	1,80	2,65	500	3.000	4,5	- 6,0	2200	3100	01112004014			
10,0		500											3.000	6,0	- 8,0	01112004810
12,5		500											3.000	8,0	- 10,0	01112004813
14,5		250											2.000	10,0	- 12,0	01112004814
16,0		250											2.000	10,0	- 12,0	01112004816
22,0	250	1.500	13,0	- 18,0	01112004822											

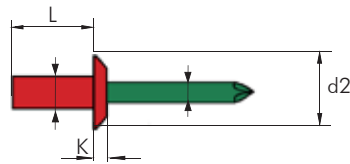
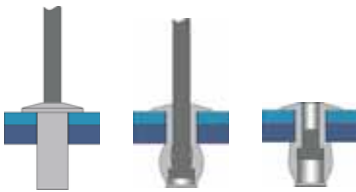
Tests according to EN ISO 14589




## SEALED RIVET Dome head

# ALUMINIUM/INOX A2

Al Mg 5

AISI 304

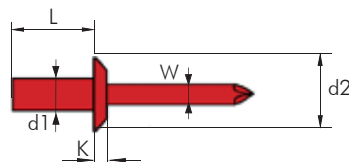
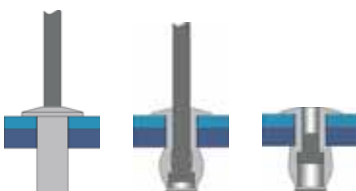


d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		E MIN. mm MAX.		 (N)	 (N)	REFERENCE
						Inner	Outer					
3,2	6,5	3,30	6,40	1,00	1,65	500	4.000	0,5	- 2,0	1100	1450	01119003207
	8,0					500	4.000	2,0	- 3,5			01119003208
	9,5					500	4.000	3,5	- 5,0			01119003209
	12,0					500	4.000	6,5	- 8,0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




Tests according to EN ISO 14589

## SEALED RIVET Dome head

# ALUMINIUM/ALUMINIUM



UNE - EN ISO 15975

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	8,0	3,30	6,40	1,00	1,80	500	4.000	0,5	- 3,5	460	540	01190003208
	9,5					500	4.000	3,5	- 5,0			01190003209
	11,0					500	4.000	5,0	- 6,5			01190003211
4,0	9,5	4,10	7,90	1,40	2,20	500	4.000	3,5	- 5,0	720	760	01190004009
	12,5					500	3.000	5,0	- 8,0			01190004012
4,8	8,0	4,90	9,30	1,70	2,65	500	3.000	0,5	- 3,5	1.000	1.400	01190004808
	9,5					500	3.000	3,5	- 5,0			01190004809
	11,5					500	3.000	5,0	- 6,5			01190004811
	12,5					250	2.000	6,5	- 8,0			01190004812
	14,5					250	2.000	8,0	- 9,5			01190004814
	18,0					250	1.500	9,5	- 13,0			01190004818

Tests according to EN ISO 14589



# STEEL RIVETS

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



Air conditioning, lifting, furniture, gutters, containers, electrical appliances and home and industrial appliances.



Construction of ventilated facades, profiles, lifelines, metal structures, roofs and facilities.

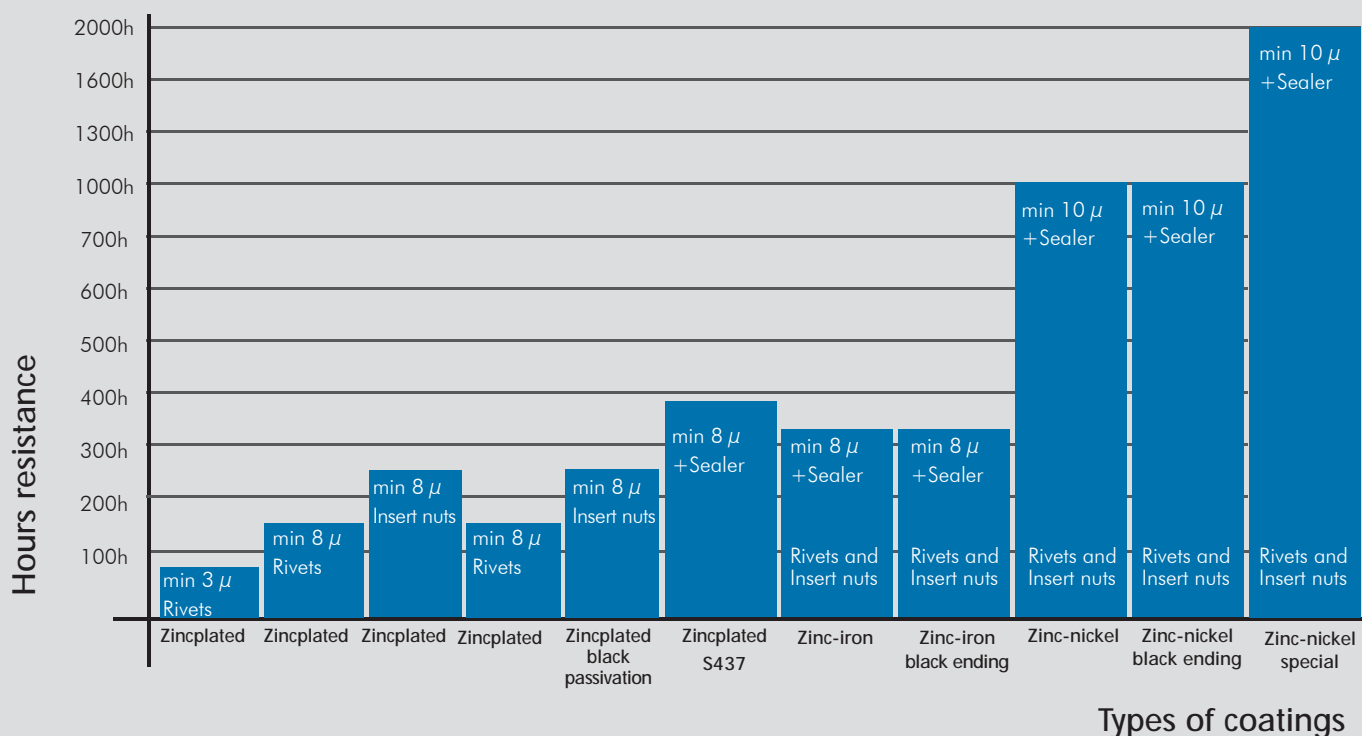


Automotive, bodywork, truck aluminium sidewalls, tarpaulins and industrial vehicles sectors.

## 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).

### CORROSION RESISTANCE OF BASE METAL



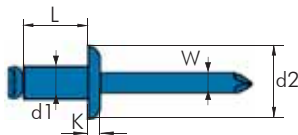
All the zincplated materials according to EN ISO 4042

# STANDARD RIVET




## Dome head

# STEEL/STEEL

Zincplated 8 μ Zincplated 3 μ



UNE - EN ISO 15979

d1 ∅ mm	L Nominal mm	 mm	d2 ∅ mm	K mm	W ∅ mm	PACKAGING		E MIN. mm MAX.		(N)	(N)	REFERENCE
						Inner 	Outer 					
3,0	6	3,10	6,00	1,00	2,00	500	4.000	0,5	- 3,0	950	1100	01210003006
	8					500	4.000	3,5	- 5,0			01210003008
	10					500	4.000	5,0	- 6,5			01210003010
	12					500	4.000	6,5	- 8,0			01210003012
3,2	6	3,30	6,40	1,00	2,00	500	4.000	0,5	- 3,0	1100	1200	01210003206
	8					500	4.000	3,0	- 5,0			01210003208
	10					500	4.000	5,0	- 6,5			01210003210
	12					500	4.000	6,5	- 8,0			01210003212
	14					500	4.000	8,0	- 10,0			01210003214
	16					500	3.000	10,0	- 12,0			01210003216
	18					500	3.000	12,0	- 14,0			01210003218
4,0	6	4,10	8,00	1,30	2,40	500	4.000	1,0	- 3,0	1700	2200	01210004006
	8					500	4.000	3,0	- 5,0			01210004008
	10					500	4.000	5,0	- 6,5			01210004010
	12					500	3.000	6,5	- 9,0			01210004012
	14					500	3.000	9,0	- 10,0			01210004014
	16					500	3.000	10,0	- 12,0			01210004016
	18					500	3.000	12,0	- 14,0			01210004018
	20					500	3.000	14,0	- 16,0			01210004020
	25					250	1.500	19,0	- 21,0			01210004025
4,8	6	4,90	9,50	1,40	2,93	500	3.000	1,0	- 3,0	2900	3100	01210004806
	8					500	3.000	2,5	- 4,0			01210004808
	9					500	3.000	3,0	- 5,0			01210004809
	10					500	3.000	4,0	- 6,0			01210004810
	12					250	2.000	6,0	- 8,0			01210004812
	14					250	2.000	8,0	- 9,5			01210004814
	16					250	2.000	9,5	- 11,0			01210004816
	18					250	1.500	10,0	- 13,0			01210004818
	21					250	1.500	11,0	- 15,0			01210004821
	24					200	1.200	15,0	- 19,5			01210004824
	30					200	1.200	19,5	- 25,0			01210004830
	35					150	900	25,0	- 30,0			01210004835
	5,0					8	5,10	9,50	1,60			2,93
10		500	3.000	4,0	- 6,0	01210005010						
12		250	2.000	6,0	- 8,0	01210005012						
14		250	2.000	8,0	- 9,5	01210005014						
16		250	2.000	9,5	- 11,0	01210005016						
18		250	1.500	10,0	- 13,0	01210005018						
20		250	1.500	11,0	- 15,0	01210005020						
25		200	1.200	15,0	- 19,5	01210005025						
30		200	1.200	19,5	- 25,0	01210005030						
35		150	900	25,0	- 30,0	01210005035						
40		150	900	30,0	- 34,0	01210005040						
45		100	600	34,0	- 39,0	01210005045						
50		100	600	39,0	- 44,0	01210005050						
55		100	600	44,0	- 49,0	01210005055						
60	100	600	49,0	- 54,0	01210005060							
6,0	8	6,10	12,00	1,80	3,60	250	1.500	1,5	- 3,0	4300	4800	01210006008
	10					250	1.500	3,0	- 4,0			01210006010
	12					250	1.500	4,0	- 6,0			01210006012
	14					250	1.500	6,0	- 8,0			01210006014
	16					200	1.200	8,0	- 10,0			01210006016
	18					200	1.200	10,0	- 12,0			01210006018
	20					200	1.200	12,0	- 14,0			01210006020
	25					150	900	14,0	- 19,0			01210006025
	30					150	900	19,0	- 24,0			01210006030
	35					100	600	24,0	- 29,0			01210006035
	6,4					8	6,50	13,00	2,20			3,85
10		250	1.500	3,0	- 4,0	01210006410						
12		250	1.500	4,0	- 6,0	01210006412						
15		250	1.200	6,0	- 9,0	01210006415						
18		200	1.200	9,0	- 11,0	01210006418						
20		150	900	9,0	- 13,0	01210006420						
22		150	900	13,0	- 16,0	01210006422						
25		150	900	13,0	- 19,0	01210006425						
30		100	600	19,0	- 24,0	01210006430						
35		500	500	24,0	- 29,0	G1210006435						

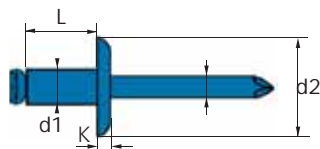
Tests according to EN ISO 14589






STEEL

# STEEL/STEEL

Zincplated 8  $\mu$  Zincplated 3  $\mu$

## STANDARD RIVET Large head



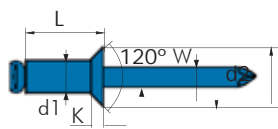
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		E MIN. mm MAX.		 (N)	 (N)	REFERENCE						
						 Inner	 Outer											
4,0	6	4,10	10,00	1,50	2,40	500	3.000	1,0	3,0	1700	2200	01230004006						
	8					500	3.000	3,0	5,0			01230004008						
	10					500	3.000	5,0	6,5			01230004010						
	12					500	3.000	6,5	9,0			01230004012						
	14					500	3.000	9,0	10,0			01230004014						
4,0	8	4,10	12,00	1,80	2,40	500	3.000	3,0	5,0	1700	2200	01240004008						
	10					500	3.000	5,0	6,5			01240004010						
	12					500	3.000	6,5	9,0			01240004012						
	14							9,0	10,0			01240004014						
	8					4,90	14,00	2,10	2,93			250	1.500	2,5	4,0	2900	3100	01230004808
10					250	1.500	4,0	6,0			01230004810							
	12				250	1.500	6,0	8,0			01230004812							
14					250	1.500	8,0	9,5			01230004814							
	16				250	1.500	9,5	11,0			01230004816							
18					200	1.200	10,0	13,0			01230004818							
	21				200	1.200	11,0	15,0			01230004821							
24					150	900	15,0	19,5			01230004824							
	30				150	900	19,5	25,0			01230004830							
35					100	600	25,0	30,0			01230004835							
	4,8	4,90	16,00	2,10	2,93	500	3.000	2,5	4,0	2900	3100	01240004808						
10	250					1.500	4,0	6,0	01240004810									
12	250					1.500	6,0	8,0	01240004812									
14	200					1.200	8,0	9,5	01240004814									
16	200					1.200	9,5	11,0	01240004816									
18	200					1.200	10,0	13,0	01240004818									
21	150					900	11,0	15,0	01240004821									
24	150					900	15,0	19,5	01240004824									
6,4	10					6,50	19,00	3,00	3,85			1.000	1.000	3,0	4,0	4900	5700	G1240006410
	12											1.000	4,0	6,0	G1240006412			
	15	1.000	6,0	9,0	G1240006415													
	18	500	9,0	12,0	G1240006418													
	30	500	19,0	24,0	G1240006430													
	42	500	32,0	37,0	G1240006442													








# STANDARD RIVET Countersunk head 120°

## STEEL/STEEL

Zincplated 8 μ Zincplated 3 μ



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					
3,2	6	3,30	6,30	1,00	2,00	500	4.000	1,5	3,5	1100	1200	01220003206
	8					500	4.000	3,5	5,5			01220003208
	10					500	4.000	5,5	7,0			01220003210
	12					500	4.000	7,0	9,0			01220003212
4,0	6	4,10	7,60	1,30	2,40	500	4.000	2,0	3,0	1700	2200	01220004006
	8					500	4.000	3,0	5,0			01220004008
	10					500	4.000	5,0	6,5			01220004010
	12					500	3.000	6,5	8,0			01220004012
	14					500	3.000	8,0	10,0			01220004014
	16					500	3.000	10,0	12,0			01220004016
	18					500	3.000	12,0	14,0			01220004018
	20					500	3.000	14,0	16,0			01220004020
4,8	8	4,90	9,50	1,40	2,93	500	3.000	2,5	4,0	2900	3100	01220004808
	10					500	3.000	4,0	6,0			01220004810
	12					250	2.000	6,0	8,0			01220004812
	14					250	2.000	8,0	10,0			01220004814
	16					250	2.000	9,0	11,0			01220004816
	18					250	1.500	11,0	13,0			01220004818
	20					250	1.500	13,0	15,0			01220004820
5,0	10	5,10	9,50	1,60	2,93	500	3.000	4,0	6,0	2900	3100	01220005010
	12					250	2.000	6,0	8,0			01220005012
	20					250	1.500	13,0	15,0			01220005020
	25					200	1.200	15,0	19,5			01220005025
6,4	10	6,50	12,50	2,00	3,85	250	1.500	3,0	4,0	4900	5700	01220006410
	13					250	1.500	5,0	7,0			01220006413
	16					200	1.200	6,0	9,0			01220006416
	20					150	900	9,0	13,0			01220006420

Tests according to EN ISO 14589

STEEL



# 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.

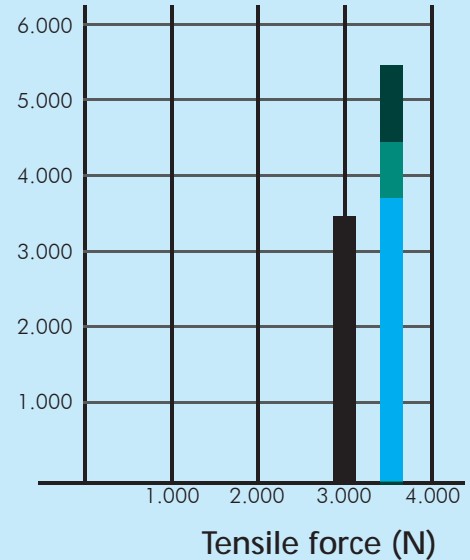
STEEL

- Get a homogeneous riveting, achieving a solid union and high quality.
- Resistant to all type of vibrations.
- Provide an airtight seal against climate conditions.



## MULTI-THICKNESS STEEL RIVETS

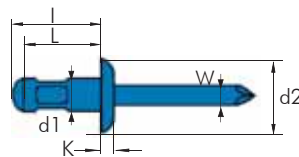
Shear strength (N)



- 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

Zincplated 8  $\mu$  Zincplated 3  $\mu$



## MULTIGRIP RIVET Dome head



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	 E MIN. mm MAX		 (N)	 (N)	REFERENCE
						Inner	Outer						
3,2	9	3,30	7,50	1,00	2,00	500	4.000	11,3	2,0	5,0	1100	1250	01280003209 01280003213
	500					4.000	15,3		4,0	6,0			
4,0	11	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 01280004813
	250					2.000	16,0		4,0	6,5			

Tests according to EN ISO 14589

# HARDVEX RIVETS

Our Hardvex rivet is a fastener element made by an aluminium alloy that allows working with a wide variety of grip ranges.

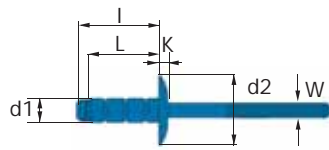
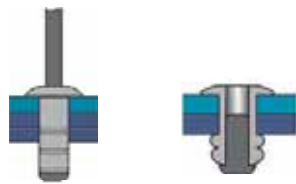








STEEL

## HARDVEX RIVET Dome head

## STEEL/STEEL

Zincplated 8  $\mu$  Zincplated 3  $\mu$



d1 $\emptyset$ mm	L Nominal mm	 mm	d2 $\emptyset$ mm	K mm	W $\emptyset$ mm	PACKAGING		I Max. mm			 (N)	 (N)	REFERENCE
						 Inner	 Outer		MIN. mm	MAX			
4,0	11,5	4,10	8,00	1,40	2,65		500	14,5	1,0	- 6,5	1900	2500	G1874004011
4,8	11,0	4,90	9,80	1,50	3,00		2.000	14,0	0,5	- 6,5	3000	3300	G1874004811
						2.000	17,5	1,5	- 9,0			G1874004814	
						1.500	20,5	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

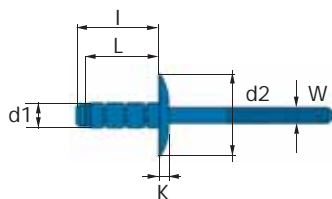
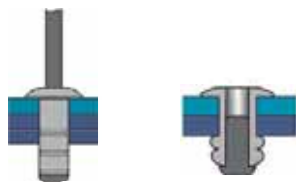
Tests according to EN ISO 14589







A2  
INOX

## HARDVEX RIVET Large head

## STEEL/STEEL

Zincplated 8  $\mu$  Zincplated 3  $\mu$



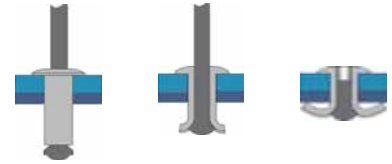
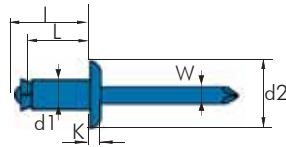
d1 $\emptyset$ mm	L Nominal mm	 mm	d2 $\emptyset$ mm	K mm	W $\emptyset$ mm	PACKAGING		I Max. mm			 (N)	 (N)	REFERENCE
						 Inner	 Outer		MIN. mm	MAX			
4,8	11,0	4,90	16,00	2,00	3,00		1.000	14,0	1,5	- 6,5	3000	3300	G1877004811
						1.000	17,5	1,5	- 9,5			G1877004814	
						1.000	20,5	6,5	- 12,5			G1877004817	







Tests according to EN ISO 14589

# STEEL/STEEL

Zincplated 8 μ Zincplated 3 μ

## PEELED RIVET Dome head



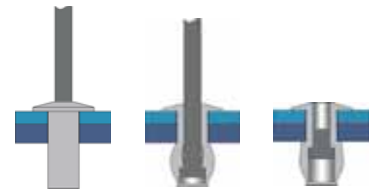
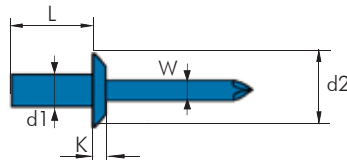
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	 E MIN. mm MAX.	 (N)	 (N)	REFERENCE
						 Inner	 Outer					
4,0	9	4,30-4,40	8,00	1,20	2,40	3.000	12,4	5	3.800	2.600	G1850004009 G1850004012	
	12											3.000

Tests according to EN ISO 14589







# STEEL/STEEL

Zincplated 8 μ Zincplated 8 μ

## SEALED RIVET Dome head



UNE - EN ISO 15976

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	6,0	3,30	6,50	1,00	1,90	500	4.000	0,5 - 1,5	1150	1300	01290003206
	8,0					500	4.000	1,5 - 3,0			01290003208
	9,5					500	4.000	3,0 - 5,0			01290003209
	12,0					500	4.000	5,0 - 6,5			01290003212
4,0	8,0	4,10	8,20	1,40	2,30	500	4.000	1,5 - 3,0	1700	1550	01290004008
	10,0					500	4.000	3,0 - 5,0			01290004010
	12,0					500	3.000	5,0 - 6,5			01290004012
	15,0					500	3.000	6,5 - 10,5			01290004015
4,8	9,5	4,90	9,80	1,70	2,90	500	3.000	1,0 - 4,0	2400	2800	01290004809
	12,0					250	2.000	4,0 - 6,0			01290004812
	16,0					250	2.000	6,0 - 11,5			01290004816
	18,0					250	2.000	8,0 - 13,5			01290004818

Tests according to EN ISO 14589

# 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

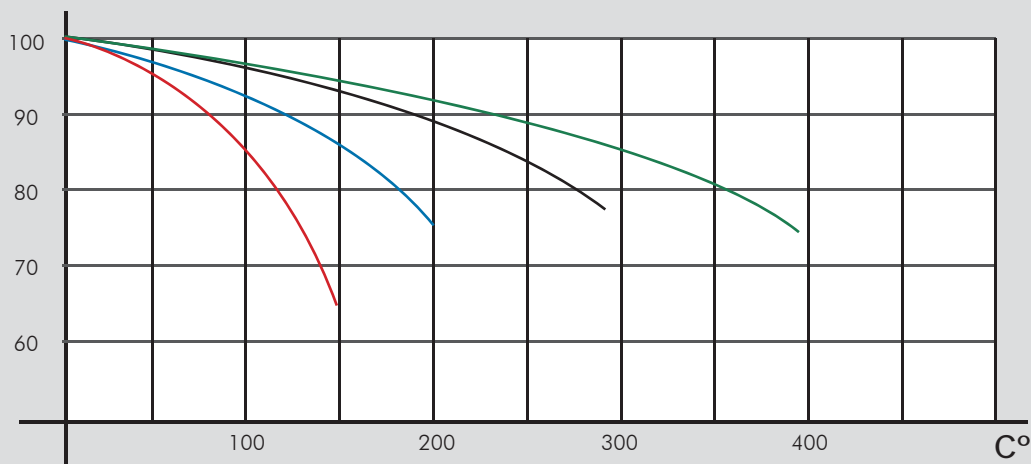
## APPLICATIONS



## 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.

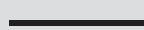
### % RESISTANCE VALUE



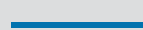
Aluminium



Steel Zinc-nickel



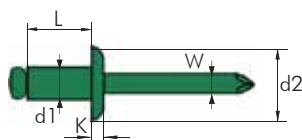
Steel Zincplated









Stainless Steel



passivation



UNE - EN ISO 15983

d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 MIN. mm MAX.	 (N)	 (N)	REFERENCE							
						 Inner	 Outer											
2,4	6	2,50	5,00	0,60	1,50	1000	8.000	2,0 - 3,5	1000	1250	01260002406							
	8					1000	8.000	3,5 - 5,5				01260002408						
	10					1000	8.000	5,5 - 7,5				01260002410						
	12					500	4.000	7,5 - 9,5				01260002412						
3,0	5	3,10	6,00	1,00	2,00	500	4.000	0,5 - 2,5	1800	2200	01260003005							
	6					500	4.000	0,5 - 3,0			01260003006							
	8					500	4.000	3,0 - 5,0			01260003008							
	10					500	4.000	5,0 - 6,5			01260003010							
	12					500	4.000	6,5 - 8,5			01260003012							
	14					500	4.000	8,5 - 10,5			01260003014							
3,2	6	3,30	6,40	1,00	2,10	500	4.000	0,5 - 3,0	1900	2500	01260003206							
	8					500	4.000	3,0 - 5,0			01260003208							
	10					500	4.000	5,0 - 6,5			01260003210							
	12					500	4.000	6,5 - 8,5			01260003212							
	15					500	4.000	8,5 - 12,0			01260003215							
	18					500	3.000	12,0 - 15,0			01260003218							
4,0	5	4,10	8,00	1,30	2,40	500	4.000	1,0 - 1,5	2700	3500	01260004005							
	6					500	4.000	1,0 - 2,5			01260004006							
	8					500	4.000	2,5 - 4,5			01260004008							
	10					500	4.000	4,5 - 6,5			01260004010							
	12					500	3.000	6,5 - 8,5			01260004012							
	14					500	3.000	8,5 - 10,0			01260004014							
	16					500	3.000	10,0 - 12,0			01260004016							
	18					500	3.000	12,0 - 14,0			01260004018							
	20					500	3.000	14,0 - 16,0			01260004020							
	25					250	1.500	16,0 - 21,0			01260004025							
	4,8					6	4,90	9,00			1,60	3,10	500	3.000	1,5 - 2,0	4000	5000	01260004806
						8							500	3.000	2,0 - 4,0			01260004808
10		500	3.000	4,0 - 6,0	01260004810													
12		250	2.000	6,0 - 8,0	01260004812													
14		250	2.000	8,0 - 9,5	01260004814													
16		250	2.000	9,5 - 11,0	01260004816													
18		250	1.500	11,0 - 13,0	01260004818													
20		250	1.500	13,0 - 16,0	01260004820													
25		200	1.200	16,0 - 19,0	01260004825													
30		200	1.200	19,0 - 24,0	01260004830													
35		150	900	24,0 - 29,0	01260004835													
40		150	900	29,0 - 34,0	01260004840													
5,0	8	5,10	9,00	1,60	3,10	500	3.000	2,0 - 4,0	4700	5800	01260005008							
	10					500	3.000	4,0 - 6,0			01260005010							
	12					250	2.000	6,0 - 8,0			01260005012							
	14					250	2.000	8,0 - 9,5			01260005014							
	16					250	2.000	9,5 - 11,0			01260005016							
	20					250	1.500	13,0 - 16,0			01260005020							
	25					200	1.200	16,0 - 19,0			01260005025							
	30					200	1.200	20,0 - 25,0			01260005030							
	35					150	900	25,0 - 30,0			01260005035							
	40					150	900	30,0 - 35,0			01260005040							
6,0	10	6,10	11,50	1,90	3,60	250	1.500	3,0 - 4,0	6000	8000	01260006010							
	12					250	1.500	4,0 - 6,0			01260006012							
	14					250	1.500	6,0 - 8,0			01260006014							
	16					200	1.200	8,0 - 10,0			01260006016							
	18					200	1.200	10,0 - 12,0			01260006018							
	20					200	1.200	12,0 - 14,0			01260006020							
6,4	12	6,50	12,50	2,20	3,85	250	1.500	2,0 - 6,0	7000	9000	01260006412							
	15					250	1.500	6,0 - 9,0			01260006415							
	18					200	1.200	9,0 - 12,0			01260006418							
	20					150	900	12,0 - 14,0			01260006420							
	25					150	900	14,0 - 18,0			01260006425							
	30					100	600	18,0 - 22,0			01260006430							

Tests according to EN ISO 14589

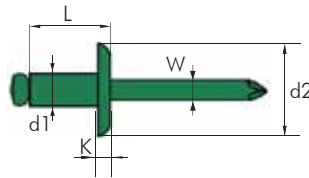








## STANDARD RIVET Large head

## INOX A2/INOX A2

AISI 304

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					
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
	16					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

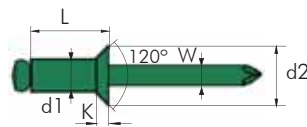
INOX

## STANDARD RIVET Countersunk head 120°







## INOX A2/INOX A2

AISI 304

AISI 304



UNE - EN ISO 15984

d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 MIN. mm MAX.	 (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



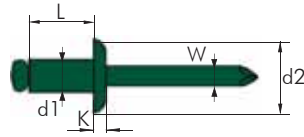








# INOX A4/INOX A4

AISI 316

AISI 316

## STANDARD RIVET Dome head



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 MIN. mm MAX.	 (N)	 (N)	REFERENCE
						 Inner	 Outer				
3,0	6	3,10	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
	25					200	1.200	16,0 - 19,0			01340004825
5,0	8	5,10	9,00	1,60	3,10	500	3.000	2,0 - 4,0			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 - 30,0			01340005035
	40					150	900	29,0 - 34,0			01340005040

Tests according to EN ISO 14589

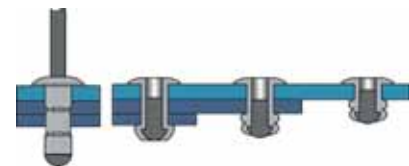
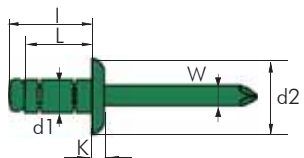


# INOX A2/INOX A2







AISI 304

AISI 304

## VERSAGRIP RIVET Dome head



UNE - EN ISO 16585

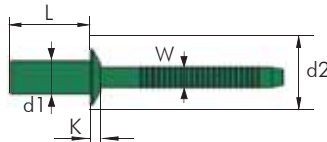
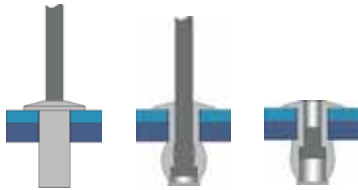
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 MIN. mm MAX.	 (N)	 (N)	REFERENCE
						 Inner	 Outer				
4,0	11,0	4,20-4,40	8,00	1,20	2,70	500	3.000	2,0 - 7,0	3360	4850	0126A004011
4,8	11,5	5,00-5,20	9,20	1,40	3,10	250	2.000	2,0 - 5,0	5000	5500	0126A004811
	14,5					250	2.000	5,0 - 8,0			0126A004814
	16,5					250	2.000	5,0 - 10,0			0126A004816
	25,5					200	1.200	12,0 - 20,0			0126A004825

## SEALED RIVET Dome head





## INOX A2/INOX A2

AISI 304

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				
3,2	6,0	3,30	6,50	1,00	1,90	500	4.000	0,5 - 1,5	2000	2200	01300003206 01300003208 01300003209 01300003212
	8,0					500	4.000	1,5 - 3,0			
	9,5					500	4.000	1,5 - 4,5			
	12,0					500	4.000	5,0 - 6,5			
4,0	8,0	4,10	8,00	1,40	2,30	500	4.000	1,5 - 3,0	3000	3500	01300004008 01300004009 01300004012 01300004014 01300004016
	9,5					500	4.000	3,0 - 5,0			
	12,0					500	3.000	5,0 - 6,5			
	14,0					500	3.000	6,5 - 8,0			
	16,0					500	3.000	8,0 - 11,0			
4,8	9,5	4,90	9,80	1,70	2,90	500	3.000	1,0 - 4,0	4000	4400	01300004809 01300004812 01300004813 01300004815 01300004816 01300004817 01300004818 01300004825
	12,0					500	3.000	4,0 - 6,0			
	13,0					250	2.000	5,0 - 7,0			
	15,0					250	2.000	5,0 - 9,0			
	16,0					250	2.000	6,0 - 10,0			
	17,0					250	2.000	10,0 - 12,0			
	18,0					250	1.500	11,0 - 13,0			
	25,0					200	1.200	17,0 - 20,0			
6,4	12,0	6,50	13,20	2,40	3,90	250	1.500	2,5 - 6,5	6000	8400	01300006412 01300006416
	16,0					250	1.500	6,5 - 8,0			

Tests according to EN ISO 14589

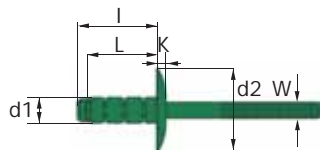
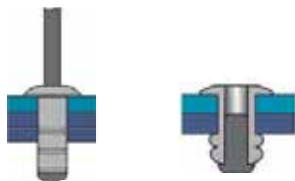
A4  
INOX







INOX

## HARDVEX RIVET Dome head

## INOX A2/INOX A2



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	 MIN. mm MAX.	 (N)	 (N)	REFERENCE
						Inner	Outer					
4,0	7,5	4,20	8,00	1,40	2,60	4.000	4.000	10,7	0,75 - 3,0	2800	3500	G1786004008 G1786004011
	10,5											
4,8	14,5	4,90	9,20	1,20	3,10	2.000	2.000	1,5 - 9,0	5500	5000	G1876004814	

Tests according to EN ISO 14589

# ALLOY RIVETS

# NICKEL COPPER (MONEL®)

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



Construction of naval turbines, chemical equipment, valves, pumps and construction of heat transfer.

Automotive industry.

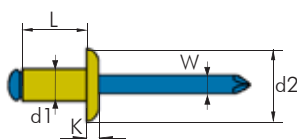



\* The term "Monel" is a copyright protected brand name of the company Special Metals Corporation, Huntington (West Virginia), USA.

## MONEL®/STEEL

Monel®

## STANDARD RIVET Dome head



d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		E		(N)	(N)	REFERENCE	
						Inner	Outer	MIN. mm	MAX				
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	2,90	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

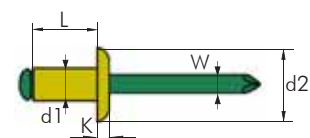
ALLOY


## MONEL®/INOX A4

Monel®

AISI 316

## STANDARD RIVET Dome head



d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		E		(N)	(N)	REFERENCE	
						Inner	Outer	MIN. mm	MAX				
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	2,90	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

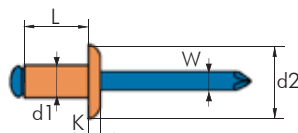
Available rivets monel/inox A4 with diameter 6,4 mm

# COPPER RIVETS

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



## STANDARD RIVET Dome head







## COPPER / STEEL

Zincplated 3 μ

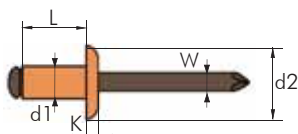


### UNE - EN ISO 16582

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

Tests according to EN ISO 14589





## STANDARD RIVET Dome head



## COPPER / BRONZE



### UNE - EN ISO 16582

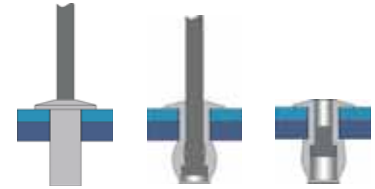
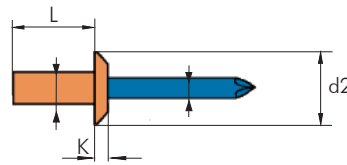
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		 MIN. mm MAX	 (N)	 (N)	REFERENCE
						Inner	Outer				
3,0	6	3,10	6,00	1,00	1,80	500	4.000	2,0 - 3,0	760	950	01400003006
	8					500	4.000	3,0 - 5,0			01400003008
	10					500	4.000	5,5 - 7,0			01400003010
	12					500	4.000	7,0 - 9,0			01400003012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






Tests according to EN ISO 14589

# COPPER / STEEL

Lubricated

SEALED RIVET  
Dome head



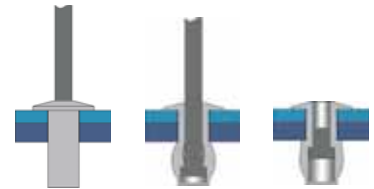
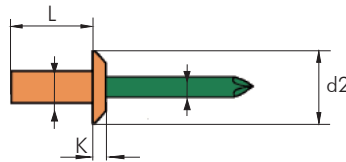
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		E MIN. mm MAX.		 (N)	 (N)	REFERENCE	
						 Inner	 Outer						
3,2	6,5	3,30	6,20	1,00	1,65	500	4.000	0,5	2,0	1250	1300	01320003206	
	8,0					500	4.000	2,0	3,5				01320003208
	9,5					500	4.000	3,5	5,0				01320003209
	12,0					500	4.000	6,5	8,0	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






Tests according to EN ISO 14589

# COPPER / INOX A2

AISI 304

SEALED RIVET  
Dome head



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	6,5	3,30	6,20	1,00	1,65	500	4.000	0,5	2,0	1250	1300	01329003206	
	8,0					500	4.000	2,0	3,5				01329003208
	9,5					500	4.000	3,5	5,0				01329003209
	10,0					500	4.000	3,5	5,0				01329004010
4,0	8,0	4,10	8,20	1,00	2,30	500	4.000	0,5	3,5	1800	1500	01329004008	
	10,0					500	4.000	3,5	5,0				01329004010

Tests according to EN ISO 14589

# STRUCTURAL RIVETS

BRALO Structural Rivets are designed to meet the most demanding of applications, where an exceptional resistance for both tensile and shear strength is needed.

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

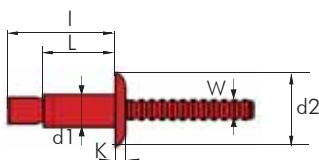


## APPLICATIONS

Structural rivets are widely used in vehicle structures, HVAC, construction and solar energy.




## STRUCTURAL RIVET Dome head



## ALUMINIUM/ALUMINIUM

Al Mg 5

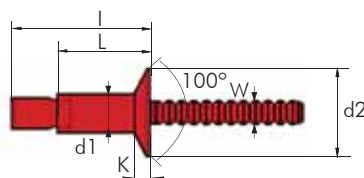


d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E		(N)	(N)	REFERENCE
						Inner	Outer		MIN. mm	MAX			
4,8	10,3	4,90-5,10	9,70	1,80	3,00	2.000	18,5	1,5	-	6,8	2900	2550	G1801004810
	13,5							1,5	-	11,0			
6,5	14,0	6,60-7,00	13,00	2,50	4,00	1.000	25,0	1,0	-	9,5	6000	4200	G1801006514
	20,0							1,000	35,0	2,0			

Tests according to EN ISO 14589




## STRUCTURAL RIVET Countersunk head 100°



## ALUMINIUM/ALUMINIUM

Al Mg 5



d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E		(N)	(N)	REFERENCE
						Inner	Outer		MIN. mm	MAX			
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							3,0	-	12,0			

Tests according to EN ISO 14589

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

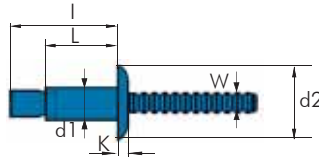









# STEEL/STEEL

Zincplated 8 μ Zincplated 8 μ

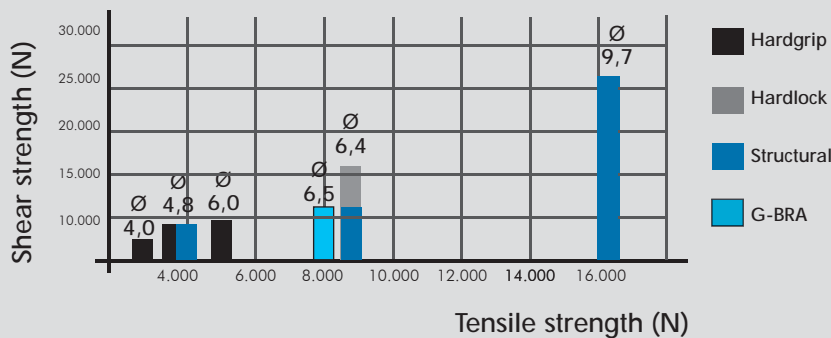
## STRUCTURAL RIVET Dome head



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E MIN. mm MAX.		 (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	5100	3900	G1821004810 G1821004813					
	13,5													1,500	24,0	1,5	-	11,0
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 G1821006520 G1821006522					
	20,0													1,000	35,0	2,0	-	16,0
	22,5													1,000	37,0	6,0	-	18,0
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

### STRENGTH STEEL RIVETS (BRALO)

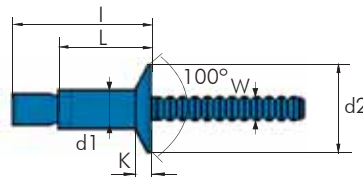







Structural rivets are manufactured with zinc-nickel coating 2000h.

# STEEL/STEEL

Zincplated 8 μ Zincplated 8 μ

## STRUCTURAL RIVET Countersunk head 100°



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E MIN. mm MAX.		 (N)	 (N)	REFERENCE
						 Inner	 Outer						
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 G1822004816
	16,5												
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 G1822006522
	22,0												

Tests according to EN ISO 14589

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

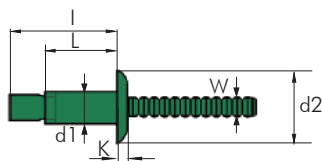



## STRUCTURAL RIVET Dome head

### INOX A2/INOX A2

AISI 304

AISI 304



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E MIN. mm MAX.		(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	5800	5000	G1826004810 G1826004813
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 G1826006520

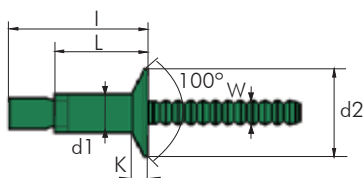
Tests according to EN ISO 14589


## STRUCTURAL RIVET Countersunk head 100°

### INOX A2/INOX A2

AISI 304

AISI 304



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E MIN. mm MAX.		(N)	(N)	REFERENCE
						Inner	Outer						
4,8	12,3	4,90-5,10	8,70	1,80	3,00	2.000	20,0	3,2	-	8,4	5100	3900	G1827004812 G1827004816
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 G1827006522

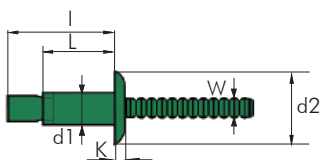
Tests according to EN ISO 14589


## STRUCTURAL RIVET Dome head

### INOX A4/INOX A4

AISI 316

AISI 316



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E MIN. mm MAX.		(N)	(N)	REFERENCE
						Inner	Outer						
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 G1834006520

Tests according to EN ISO 14589

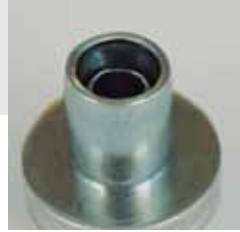
This product needs to be set with a special nosepiece.  
For installation information please contact your local BRALO representative.



# MULTILOCK RIVETS

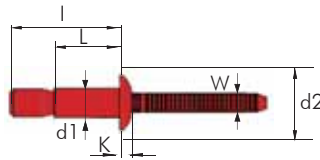
BRALO High Strength or Multilock Rivets are designed for the most demanding applications, where exceptional strength is required, both to traction and shear.


- High tensile and shear strength.
- Good hole filling.
- Resistant to vibrations due to internal locking of the mandrel.



## ALUMINIUM/ALUMINIUM

MULTILOCK RIVET  
Dome head

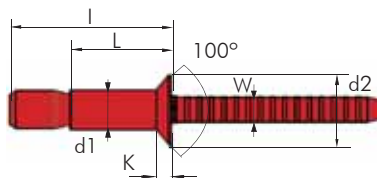



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E		(N)	(N)	REFERENCE
						Inner	Outer		MIN. mm	MAX			
4,8	10,3	4,90-5,10	9,80	2,70	3,00	1.500	1.500	19,5	2,0	- 6,3	2300	1700	G1841004810
	14,0					1.500	25,5	2,0	- 11,1			G1841004814	
6,4	14,0	6,60-7,00	13,50	3,00	4,00	1.000	1.000	25,5	2,0	- 9,5	4700	3400	G1841006414
	19,0					1.000	34,5	2,0	- 15,8			G1841006419	

Tests according to EN ISO 14589

## ALUMINIUM/ALUMINIUM

MULTILOCK RIVET  
Countersunk head 100°



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E		(N)	(N)	REFERENCE
						Inner	Outer		MIN. mm	MAX			
4,8	12,0	4,90-5,10	8,80	2,10	3,00	2.000	2.000	20,0	3,1	- 8,4	2300	1700	G1842004812
	16,0					2.000	26,3	3,1	- 12,2			G1842004816	
6,4	16,0	6,60-7,00	11,80	2,40	4,00	1.000	1.000	26,6	4,3	- 12,0	5910	4450	G1842006416
	21,0					1.000	32,0	4,3	- 18,4			G1842006421	

Tests according to EN ISO 14589

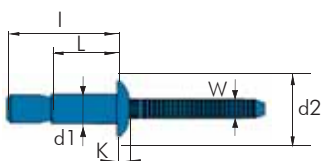
STRUCTURAL  
RIVET


# MULTILOCK RIVET

## Dome head

# STEEL/STEEL

Zincplated 8 μ Zincplated 8 μ



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E		(N)	(N)	REFERENCE
						Inner	Outer		MIN. mm	MAX			
4,8	10,0	4,90-5,10	10,20	2,30	3,00	2.000	19,0	1,5	-	6,3	6200	4600	G1843004810
	14,0							2.000	25,5	1,5			
6,4	14,0	6,60-7,00	13,50	3,00	4,00	1.000	25,5	2,0	-	9,5	11000	8900	G1843006414
	19,0							1.000	34,5	2,0			

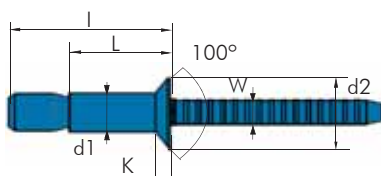
Tests according to EN ISO 14589


# MULTILOCK RIVET

## Countersunk head 100°

# STEEL/STEEL

Zincplated 8 μ Zincplated 8 μ



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E		(N)	(N)	REFERENCE
						Inner	Outer		MIN. mm	MAX			
4,8	12,0	4,90-5,10	9,50	2,20	3,00	2.000	21,0	3,1	-	8,4	6200	4600	G1844004812
	16,0							2.000	27,5	3,1			
6,4	16,0	6,60-7,00	11,80	2,40	4,00	1.000	26,6	4,3	-	12,0	11000	8900	G1844006416
	21,0							1.000	32,0	4,3			

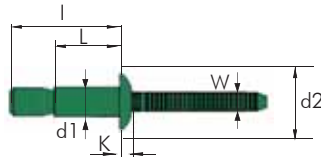
Tests according to EN ISO 14589






STRUCTURAL  
RIVET

# INOX A2/INOX A2

AISI 304 AISI 304

## MULTILOCK RIVET Dome head



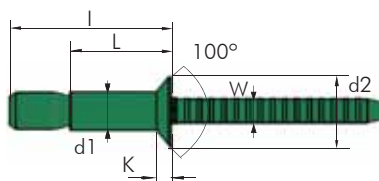
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		l Max. mm	E MIN. mm MAX		 (N)	 (N)	REFERENCE
						 Inner	 Outer						
4,8	10,8	4,90-5,10	10,20	2,30	3,00	2.000		19,0	1,5	6,3	5800	4500	G1846004810
	14,5					2.000			25,5	1,5			
6,4	14,0	6,60-7,00	13,50	3,00	4,00	1.000		23,7	2,0	9,5	11000	8300	G1846006414
	19,0					1.000			33,0	2,0			






Tests according to EN ISO 14589

# INOX A2/INOX A2

AISI 304 AISI 304

## MULTILOCK RIVET Countersunk head 100°



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		l Max. mm	E MIN. mm MAX		 (N)	 (N)	REFERENCE
						 Inner	 Outer						
4,8	12,3	4,90-5,10	8,80	2,10	3,00	2.000		20,0	3,1	8,4	5700	4100	G1847004812
	16,3					2.000			26,3	3,1			
6,4	16,3	6,6-7,00	10,30	2,40	4,00	1.000		26,4	4,3	12,0	10000	8200	G1847006416
	21,3					1.000			35,6	4,3			

Tests according to EN ISO 14589

STRUCTURAL  
RIVET

# HARDLOCK RIVETS

The Bralo Hard Lock rivet, due to its large expansion on the blind side, is suitable for applications with thin sheets.

- 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.



Air conditioning, lifting, furniture, gutters, containers, electrical appliances and home and industrial appliances.



Construction of ventilated facades, profiles, lifelines, metal structures, roofs and facilities.

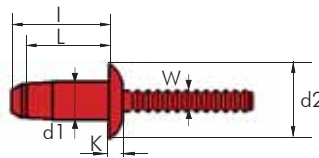
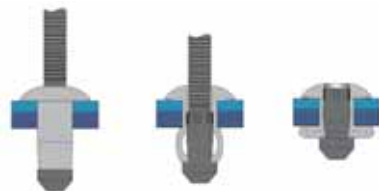





Automotive, bodywork, truck aluminium sidewalls, tarpaulins and industrial vehicles sectors.

## HARDLOCK RIVET Dome head

## ALUMINIUM/ALUMINIUM

Al Mg 2,5 (AW5052)



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E MIN. mm MAX		 (N)	 (N)	REFERENCE
						Inner	Outer						
6,4	10,5	6,70-6,90	13,00	2,50	4,20	1.500	15,0	2,8	- 4,8	5000	2800	G1881006410	
	1.000					17,0	4,8	- 6,8	5200	2800	G1881006412		
12,5	14,5	6,70-6,90	13,00	2,50	4,20	1.000	19,0	6,8	- 8,8	5400	2800	G1881006414	
	1.000					21,0	8,8	- 10,8	5400	2800	G1881006416		
16,5	18,5	6,70-6,90	13,00	2,50	4,20	1.000	23,0	10,8	- 12,8	5400	2800	G1881006418	

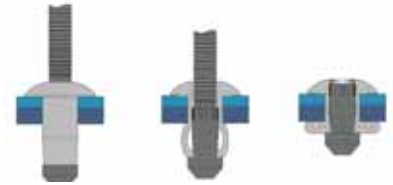
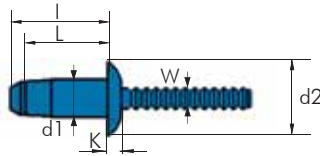
Tests according to EN ISO 14589




STRUCTURAL  
RIVET

# STEEL/STEEL

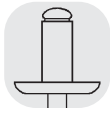
Zincplated 8 μ Zincplated 8 μ

## HARDLOCK RIVET Dome head



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E MIN. mm MAX		 (N)	 (N)	REFERENCE
						Inner	Outer						
6,4	10,5	6,70-6,90	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

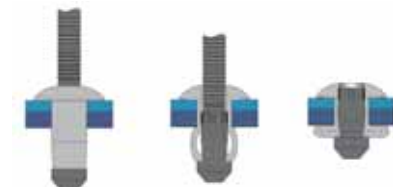
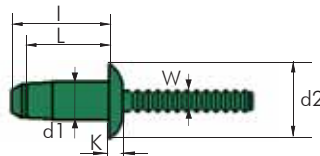





Under request we do manufacture steel blind rivets with head (d2) to 19mm.

# INOX A2/INOX A2

AISI 304 AISI 304

## HARDLOCK RIVET Dome head



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E MIN. mm MAX		 (N)	 (N)	REFERENCE
						Inner	Outer						
6,4	12,5	6,70-6,90	13,00	2,90	4,00	1.000	15,0	4,8	-	6,8	13500	8000	G1886006413
	14,5					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



# G-BRA RIVETS

Good hole filling that guarantees the mechanical locking of the mandrel to avoid electrical and vibration problems.



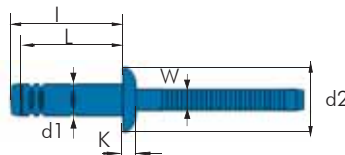
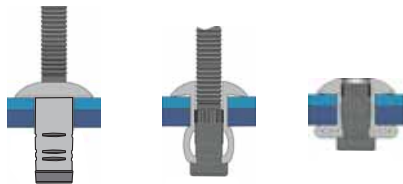
- Suitable for high tensile and shear strength applications.
- Efficient retention thanks to the large locking head of the stem, which transfers the clamping force to the application.
- Large grip area in final rivet ideal for thin thickness applications.








## G-BRA RIVET Dome head

## STEEL/STEEL

Zincplated 8  $\mu$  Zincplated 8  $\mu$



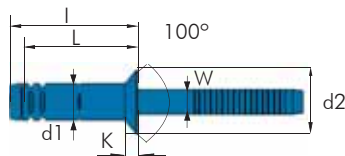
d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E		 (N)	 (N)	REFERENCE
									MIN. mm	MAX			
6,4	12,7	6,70-7,00	12,50	2,70	4,30	1.000	15,5	2,0	-	4,5	8500	8000	G189A006413
	14,7							1.000	17,5	4,0	-	6,5	10000
17,7	1.000	20,5	6,0	-	8,5	10000	8000	G189A006417					
20,7	1.000	23,5	8,5	-	11,0	11000	8000	G189A006420					
23,7	1.000	26,5	10,5	-	13,0	11000	8000	G189A006423					
25,7	1.000	28,5	12,5	-	15,0	11000	8000	G189A006425					






Tests according to EN ISO 14589

## G-BRA RIVET Countersunk head

## STEEL/STEEL

Zincplated 8  $\mu$  Zincplated 8  $\mu$



d1 Ø mm	L Nominal mm		d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E		 (N)	 (N)	REFERENCE
									MIN. mm	MAX			
6,4	13,7	6,70-7,00	11,00	2,20	4,30	1.000	16,5	0,0	-	3,5	8500	8000	G189B006414
	15,7							1.000	18,5	2,0	-	5,5	10000
17,7	1.000	20,5	4,0	-	7,5	10000	8000	G189B006418					
19,7	1.000	22,5	6,0	-	9,5	11000	8000	G189B006420					
23,7	1.000	26,5	10,0	-	13,5	11000	8000	G189B006424					
25,7	1.000	28,5	12,0	-	15,5	11000	8000	G189B006426					

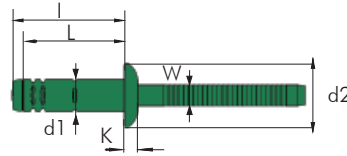
Tests according to EN ISO 14589






STRUCTURAL  
RIVET

# INOX A2/INOX A2

AISI 304 AISI 304

G-BRA RIVET  
Dome head



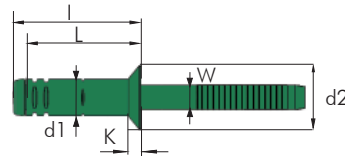
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E		 (N)	 (N)	REFERENCE
						 Inner	 Outer		MIN. mm	MAX			
6,4	12,7	6,70-7,00	13,00	2,70	4,30	1.000	15,5	2,0	-	4,5	8500	8800	G189C006413
	14,7							17,5	4,0	-			
17,7	17,7	6,70-7,00	13,00	2,70	4,30	1.000	20,5	6,0	-	8,5	10000	8800	G189C006417
	20,7							23,5	8,5	-			
23,7	23,7	6,70-7,00	13,00	2,70	4,30	1.000	26,5	10,5	-	13,0	11000	8800	G189C006423
	25,7							28,5	12,5	-			






Tests according to EN ISO 14589

# INOX A2/INOX A2

AISI 304 AISI 304

G-BRA RIVET  
Countersunk head



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E		 (N)	 (N)	REFERENCE
						 Inner	 Outer		MIN. mm	MAX			
6,4	13,7	6,70-7,00	11,00	2,20	4,30	1.000	16,5	0,00	-	3,50	8500	8800	G189D006414
	15,7							18,5	2,00	-			
17,7	17,7	6,70-7,00	11,00	2,20	4,30	1.000	20,5	4,00	-	7,50	10000	8800	G189D006418
	19,7							22,5	6,00	-			
23,7	23,7	6,70-7,00	11,00	2,20	4,30	1.000	26,5	10,00	-	13,50	11000	8800	G189D006424
	25,7							28,5	12,00	-			

STRUCTURAL  
RIVET

# HARDGRIP RIVETS

Its large bearing area on the blind side makes this Hardgrip Rivet ideal for applications with hard plastics and thin sheets.

- 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.



Air conditioning, lifting, furniture, gutters, containers, electrical appliances and home and industrial appliances.



Construction of ventilated facades, profiles, lifelines, metal structures, roofs and facilities.

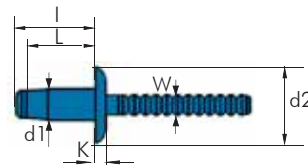
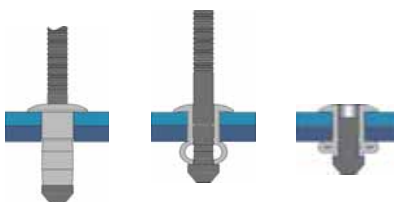








Automotive, bodywork, truck aluminium sidewalls, tarpaulins and industrial vehicles sectors.

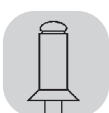
## HARDGRIP RIVET Dome head

## STEEL/STEEL

Zincplated 8  $\mu$  Zincplated 8  $\mu$



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	 E MIN mm MAX	 (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 - 4,0	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
6,4	13,5	6,60-6,90	13,00	3,00	4,70		1.000		1,5 - 5,5	10000	6500	G1894006414
	17,5						1.000		5,0 - 9,0	10000	6500	G1894006418



Tests according to EN ISO 14589

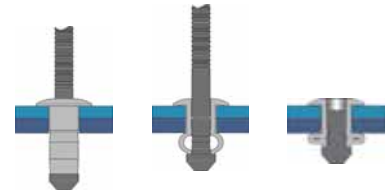
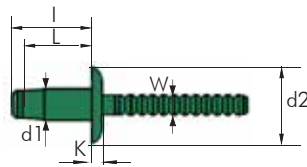
STRUCTURAL  
RIVET






# INOX A2/INOX A2

AISI 304

AISI 304

## HARDGRIP RIVET Dome head



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E MIN. mm MAX		 (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

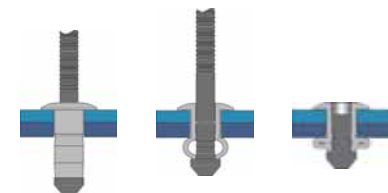
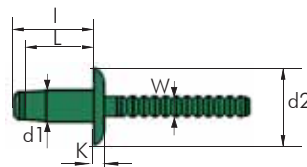







# INOX A4/INOX A4

AISI 316

AISI 316

## HARDGRIP RIVET Dome head



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E MIN. mm MAX		 (N)	 (N)	REFERENCE
						 Inner	 Outer						
3,2	9,5	3,30-3,40	6,60	1,00	2,10	500	4.000	12,0	3,0	- 5,0	1700	3900	01896003210A4
4,8	9,0	5,00-5,20	4,80	1,50	3,20	500	4.000	13,0	1,5	- 3,5	5500	5000	01896004809A4

Tests according to EN ISO 14589

# ESTRUBOLT RIVET

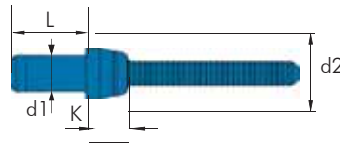
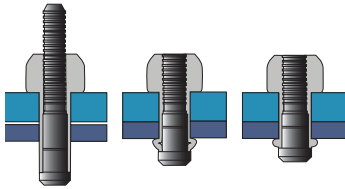
- High tensile and shear strength for structural and demanding applications.
- Special for fragile materials thanks to its wide riveting area.
- The locking system creates a vibration resistant joint and ensures a strong mandrel grip.
- Excellent resistance to water in the application joint.








## ESTRUBOLT

## STEEL/STEEL

Zincplated 8 μ



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	W Ø mm	PACKAGING		I Max. mm	E MIN. mm MAX		 (N)	 (N)	REFERENCE									
						 Inner	 Outer															
6,4	11,7	7,00-7,40	9,45	5,30	4,45	900	16,0	2,5	4,0	22600	14400	G1820006412										
	13,5							17,5	5,6				5,6	G1820006414								
	15,0							19,0	5,6				7,2	G1820006415								
	16,5							20,5	7,2				8,7	G1820006416								
	18,0							22,0	8,7				10,3	G1820006418								
	19,5							24,0	10,3				11,9	G1820006419								
	21,0							25,5	11,9				13,5	G1820006421								
	23,0							27,0	13,5				15,1	G1820006423								
	24,5							28,5	15,1				16,7	G1820006424								
	26,0							30,0	16,7				18,3	G1820006426								
8.0	17,5	8,80-9,40	11,9	6,8	5,75	400	22,2	4,8	7,9	35800	23100	G1820008018										
	19,0							23,8	6,4				9,5	G1820008019								
	20,8							25,4	8,0				11,1	G1820008021								
	24,0							28,6	11,1				14,3	G1820008024								
	27,5							31,8	14,3				17,5	G1820008028								
	30,5							34,9	17,5				20,6	G1820008031								
	33,5							38,1	20,6				23,8	G1820008034								
	36,5							41,3	23,8				27,0	G1820008037								
	9,6							19,5	10,5-11,00				14,1	8	6,8	300	25,0	4,8	7,9	49400	32200	G1820009620
								22,5										28,0	7,9			
26,0		31,0	11,1	14,3	G1820009626																	
29,0		34,3	14,3	17,5	G1820009629																	
32,2		37,5	17,5	20,6	G1820009632																	
35,3		40,5	20,6	23,8	G1820009635																	
38,5		43,8	23,8	27,0	G1820009639																	
41,7		47,0	27,0	30,1	G1820009642																	
45,0		50,2	30,1	33,3	G1820009645																	
12,7		25,5	13,90-14,80	18,9	10,7	9,05	100	32,5		6,4	9,5	89600						57800	G1820001325			
	28,5	9,5							12,7	G1820001329												
	31,8	12,7							15,9	G1820001332												
	35,0	15,9							19,1	G1820001335												
	38,0	19,1							22,2	G1820001338												
	41,3	22,2							25,4	G1820001341												
	44,5	25,4							28,6	G1820001345												
	47,5	28,6							31,8	G1820001348												
	50,8	31,8							34,9	G1820001351												
	54,0	34,9							38,1	G1820001354												
	57,0	38,1							41,3	G1820001357												
	16	30,8							17,40-18,5	23,7	13,2		11,85	50	39,0	6,4	12,7			126700	91200	G1820001631
37,0		12,7	19,1	G1820001637																		
43,5		19,1	25,4	G1820001644																		
47,0		25,3	31,8	G1820001647																		
56,0		31,8	38,1	G1820001656																		
19		XX	21,00-22,2	28,6	16,6												200600	129400				

STRUCTURAL RIVET

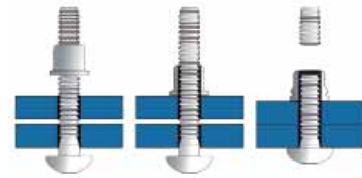
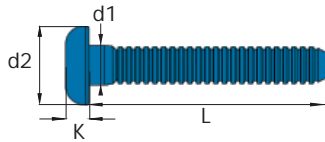
# LOCKBOLTS







The lockbolts are designed for the most demanding applications with the capacity to withstand high loads and guarantee a quality fixation.



## STEEL/STEEL

Zincplated 8  $\mu$

**BRALOCK**  
Lockbolt



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	PACKAGING		 E MIN. mm MAX	 (N)	 (N)	REFERENCE Mandrel
					 Inner	 Outer				
4,8	45,80	5,60	9,50	3,00	1000	1000	1,6 - 15,9	7600	7300	07821004845
	60,60	5,60			1000	7,9 - 31,8	07821004860			
6,5	57,00	6,80	12,70	3,40	1000	500	1,6 - 20	11800	16000	07821006557
	66,75	7,10			500	7,9 - 28	07821006566			
8,0	60,45	9,10	15,85	4,85	250	250	3,2 - 19	13200	20200	07821008060
	73,15	9,10			250	15,9 - 34,9	07821008073			

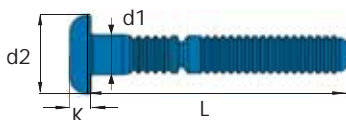
d1 Ø mm	L Nominal mm	PACKAGING		REFERENCE Collar
		 Inner	 Outer	
9,5	7		5000	07328004807
12,7	9,5		1000	07328006509
15,8	11,1		1000	07328008011



# LOCKBOLTS

The lockbolts are designed for the most demanding applications with the capacity to withstand high loads and guarantee a quality fixation.







## UNILOCK Lockbolt



## STEEL/STEEL

Zincplated 8  $\mu$

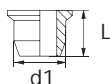




d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	PACKAGING  Inner  Outer	 MIN. mm MAX	 (N)	 (N)	REFERENCE Mandrel
*6,5	xx	6,60	13,00	3,50	2.000	1,5 - 30,0			074210065XX
	xx								076210065XX

4 Grooves  
6 Grooves



**\*Note:** This rivet is made to order with diameters of 4.8, 6.4, 8.0 and 10.0 mm.

With different heads: dome, wide and countersunk. In different materials, aluminium, steel and stainless steel.



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



d1 Ø mm	L Nominal mm	PACKAGING  Inner  Outer	REFERENCE Collar
10,3	8,0	500 3000	07321006508





# SPECIAL RIVETS

- No through holes required.
- Wide support surface.
- Corrosion resistant.

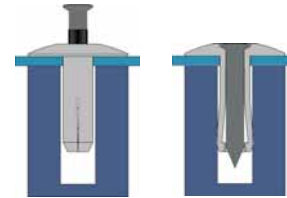
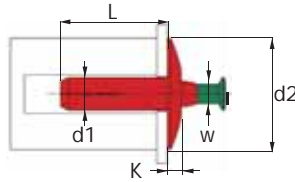





DRIVE RIVET  
Large head

## ALUMINIUM/INOX A2

Al Mg 3

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

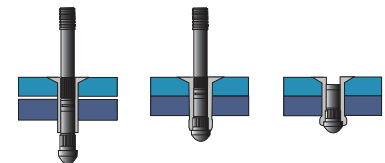
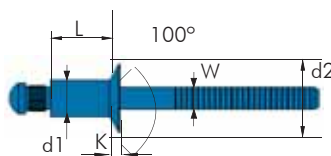
The rivet mandrel is forcefully introduced with a punch into the rivet body (aluminum), using for instance a hammer, opening the rivet body in 3 different blades fixing it inside the walls of the material to be fixed.




## STEEL/STEEL

Zincplated 8 µ Zincplated 8 µ

SR RIVET  
Countersunk head

- Resistant to humidity thanks to its special mandrel that plugs the hole in the body of the blind rivet.
- High tensile and shear strength.
- Resistant to vibrations and rattle, thanks to the deformation of the grooved part.



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						
6,3	12,8	6,50	11,90	1,80	3,75	1.000		3,2	6,4	7800	6400	G1C20006413	
	15,8							6,4	9,5				G1C20006416
	18,8							9,5	12,5				G1C20006419
	22,8							12,5	16,0				G1C20006423
	25,8							16,0	19,0				G1C20006426

Tests according to EN ISO 14589

## PROFILE CLINCHER

- Stepped body rivet.
- Does not deform surfaces once riveted.
- It does not loosen due to dynamic stresses.
- Possibility of manufacturing in different materials.



Metal carpentry for moldings and clips.



Automotive sector.

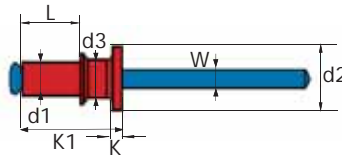
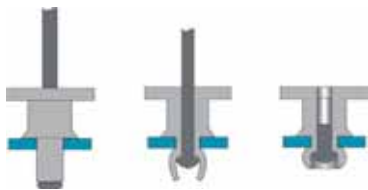








### PROFILE CLINCHER

**ALUMINIUM/STEEL**

Al Mg 3,5

Zincoated 3 μ



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	d3 Ø mm	K mm	K1 mm	W Ø mm	PACKAGING  Inner  Outer	 E MIN. mm MAX	 (N)	 (N)	REFERENCE
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

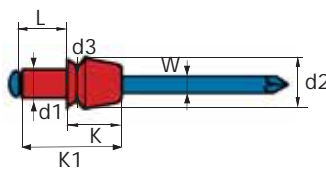
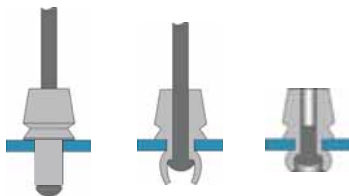
Tests according to EN ISO 14589







### PROFILE CLINCHER







**ALUMINIUM/STEEL**

Al Mg 3,5

Zincoated 3 μ



d1 Ø mm	L Nominal mm	 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	 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

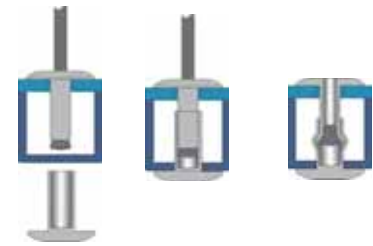
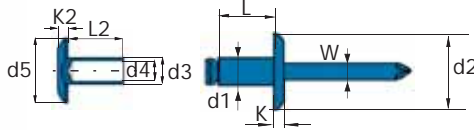
Tests according to EN ISO 14589



# SPECIAL RIVET

## STEEL/STEEL



Zincplated 8  $\mu$  Zincplated 3  $\mu$

## GRIPMATE RIVET Large head



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

Tests according to EN ISO 14589

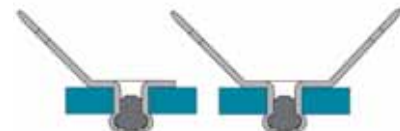
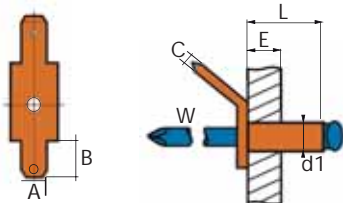
d3 Ø mm	L2 Nominal mm	 mm	k2 mm	d4 Ø mm	d5 Ø mm	PACKAGING		 E MIN. mm MAX	REFERENCE
						Inner	Outer		
6,3	9,5	7,80	2,60	4,90	16,00	1.500			G12340063095
	14,5					1.500			G12340063145



Note: Gripmate is sold separately.

## BRASS/STEEL

Coppered

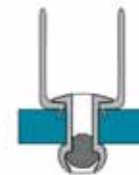
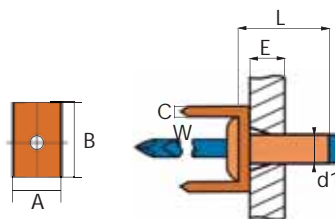
## BRASS MASS-RIVET Special rivet





d1 mm	L Nominal mm	 mm	A mm	B Ø mm	C Ø mm	W Ø mm	PACKAGING		 E MIN. mm MAX	REFERENCE
							Inner	Outer		
4,0	7	4,10	6,30	8,10	0,80	2,40	250	1.500	4,0	01910004007 1 TAB
										01920004007 2 TAB

## COPPER /STEEL/BRASS

Coppered



d1 mm	L Nominal mm	 mm	A mm	B Ø mm	C Ø mm	W Ø mm	PACKAGING		 E MIN. mm MAX	REFERENCE
							Inner	Outer		
3,8	8	5,20	6,30	8,00	0,80	2,25	250	1.500	1,2	01910003808 1 TAB
							250	1.500		01920003808 2 TAB
							150	900		01924003808 4 TAB

# SEALING PARTS

At Bralo, to guarantee the watertightness of the fixings, we have two possible solutions applicable to both rivets, rivet nuts and special pieces: Custom polymeric washers and sealant application.



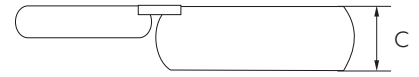
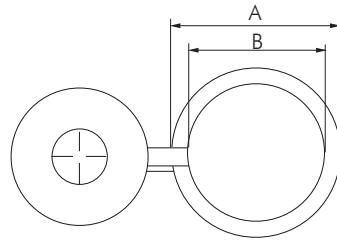
## TREATMENT BY SEALANT

It consists of an elastic, heat-cured polyurethane applied under the head of the rivet or nut in question. When riveting, the SEALANT adapts to the geometry, guaranteeing tightness.

## ADVANTAGES OF TREATMENT BY SEALANT

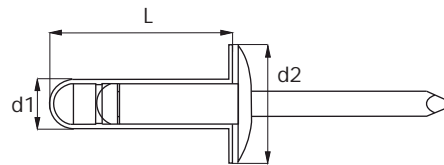
- Replaces washers, o-rings and resins.
- Immediate and effective sealing after assembly.
- Product attached to the piece. Eliminates the possibility of disassembly or assembly error.
- Resistance to water, oils, coolants, brake fluids, gases etc.
- It is applied to pieces of type of materials: steel, stainless steel, aluminum ...
- And it can be installed in all kinds of applications such as steel, aluminum, stainless, composite and plastic plates.
- This coating can be applied on small pieces.

COLOR	DEGREES
Light Blue	+160 C°
Dark blue	+100 C°

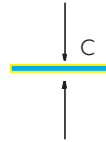
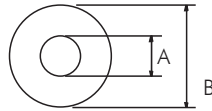
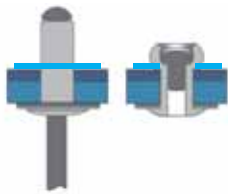


For rivets d1 Ø mm	RAL	A mm	B mm	C mm	PACKAGING		REFERENCE
					Inner	Outer	
3,2 4,0 4,8	Black 9005	12,00	9,50	4,40	500	4.000	07000N09000
3,2 4,0 4,8	White	12,00	9,50	4,40	500	4.000	07000BL9000
3,2 4,0 4,8	Yellow 1104	12,00	9,50	4,40	500	4.000	07000J19000
3,2 4,0 4,8	Grey 7038	12,00	9,50	4,40	500	4.000	07000G09000
3,2 4,0 4,8	Brown 8014	12,00	9,50	4,40	500	4.000	07000M09000
3,2 4,0 4,8	Beige 1015	12,00	9,50	4,40	500	4.000	07000BE9000
3,2 4,0 4,8	Blue 5002	12,00	9,50	4,40	500	4.000	07000A59000

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



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



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.



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
4,0-4,8	4,00	14,00	1,30	250	2.500	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

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.

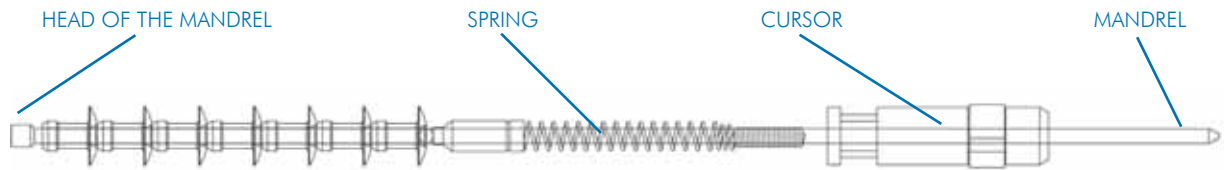
## FEATURES AND BENEFITS

- 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.



# 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.

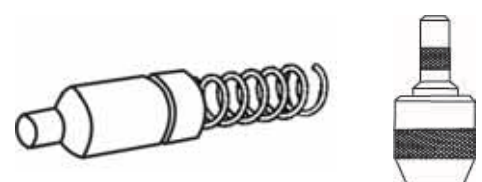
The three elements are linked to the rivets and the size of the drill in the application.

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.



MANDREL

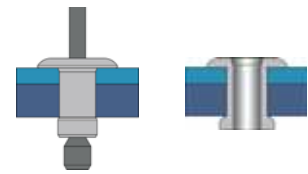
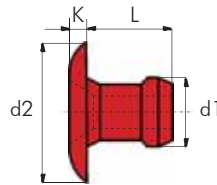


SPRING







NOSEPIECE

# ALUMINIUM

## SPEED RIVET BSR Dome head



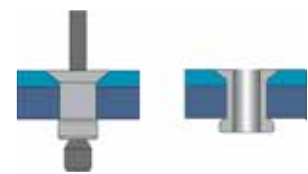
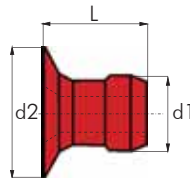
SPEED RIVET







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

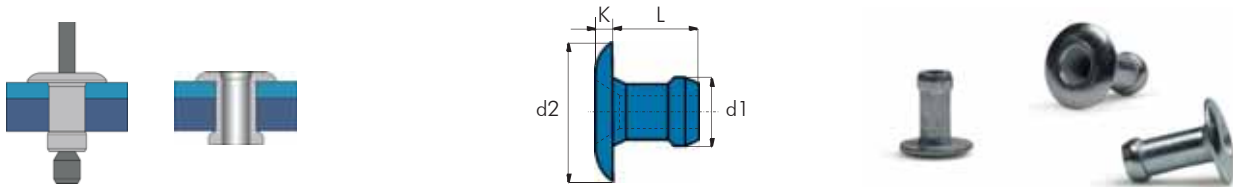








d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	 N° pieces	PACKAGING  Outer	 E MIN. mm MAX.	 (N)	 (N)	REFERENCE
3,2	4,8	3,26 - 3,34	5,40	0,75	65	30.000	1,6 - 2,7	900	1600	G1552003204
	5,8				52	25.000	2,6 - 3,8			G1552003205
	6,8				44	20.000	3,6 - 4,8			G1552003206
	7,8				38	20.000	4,6 - 5,8			G1552003207
	8,8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

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

## SPEED RIVET BSR Dome head

STEEL



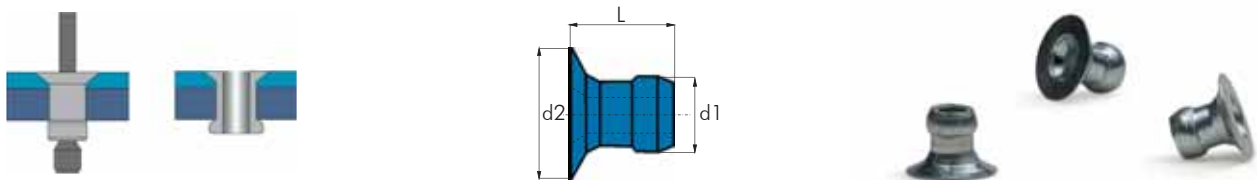
d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	 N° pieces	PACKAGING  Outer	 E MIN. mm MAX.	 (N)	 (N)	REFERENCE
3,2	3,8	3,26 - 3,34	6,30	0,95	65	30.000	1,0 - 1,9	1100	1800	G1560003203
	4,3									G1560003204
	5,3									G1560003205
	6,3									G1560003206
	7,3									G1560003207
	8,3									G1560003208
9,3	G1560003209									
4,0	4,9	3,97 - 4,04	8,00	1,05	52	23.000	1,6 - 2,9	1600	2800	G1560004005
	5,4									G1560004055
	5,9									G1560004006
	6,9									G1560004007
	7,9									G1560004008
	8,9									G1560004009
4,8	5,4	4,85 - 4,93	9,50	1,20	46	15.000	1,7 - 3,3	2200	3700	G1560004805
	6,1									G1560004806
	7,3									G1560004807
	8,6									G1560004808
	9,9									G1560004809
	11,1									G1560004811







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

SPEED RIVET

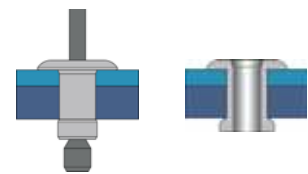
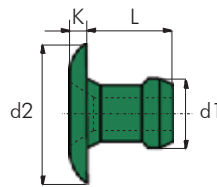
## SPEED RIVET BSR Countersunk head







STEEL



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

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

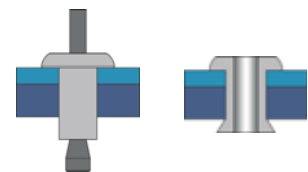
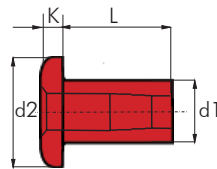



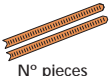




d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	 N° pieces	PACKAGING Outer 	 MIN. mm MAX	 (N)	 (N)	REFERENCE			
3,2	4,3	3,26 - 3,34	6,30	0,95	58	30.000	1,2 - 2,4	1300	2000	G1570003204			
	5,3									48	25.000	2,2 - 3,4	G1570003205
	6,3									42	20.000	3,2 - 4,4	G1570003206
4,0	4,9	3,97 - 4,04	8,00	1,05	52	23.000	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

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

# ALUMINIUM

## SPEED RIVET BSV Dome head

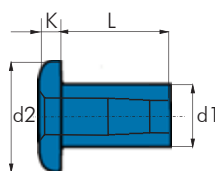
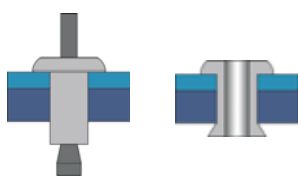








d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	 N° pieces	PACKAGING Outer 	 MIN. mm MAX	 (N)	 (N)	REFERENCE			
3,2	3,2	3,30-3,35	5,20	1,20	70	30.000	0,5 - 1,6	500		G1510003203			
	4,8									51	25.000	1,6 - 3,2	G1510003204
	6,4									38	20.000	3,2 - 4,8	G1510003206
	7,9									32	17.000	4,8 - 6,4	G1510003207
	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	G1510004005
	7,9									34	15.000	4,8 - 6,4	G1510004006
	9,5									27	12.000	6,4 - 7,9	G1510004007
	11,1									23	9.000	7,9 - 9,5	G1510004008
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

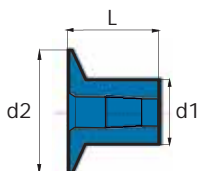
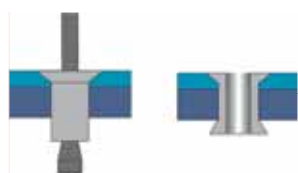



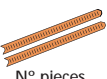




d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	 N° pieces	PACKAGING  Outer	 MIN. mm MAX	 (N)	 (N)	REFERENCE
3,2	3,2	3,27-3,34	5,20	1,20	70	30.000	0,5 - 1,6	1000		G1520003203
	4,8									G1520003205
	6,4									G1520003206
	7,9									G1520003207
	9,5									G1520003209
	11,1									G1520003211
4,0	4,8	4,10-4,15	6,20	1,50	46	20.000	1,6 - 3,2	1400		G1520004004
	6,4									G1520004006
	7,9									G1520004007
	9,5									G1520004009
	11,1									G1520004011
	4,8									5,6
7,2		G1520004807								
8,8		G1520004808								
10,3		G1520004810								
11,9		G1520004812								

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

## SPEED RIVET BSV Countersunk head

STEEL



d1 Ø mm	L Nominal mm	 mm	d2 Ø mm	K mm	 N° pieces	PACKAGING  Outer	 MIN. mm MAX	 (N)	 (N)	REFERENCE
3,2	3,2	3,28-3,34	5,50		70	30.000	0,5 - 1,6	1000		G1522003203
	4,0									G1522003204
	4,8									G1522003205
	6,4									G1522003206
	7,9									G1522003208
	9,5									G1522003209
4,0	4,8	4,09-4,16	6,50		62	20.000	1,6 - 3,2	1400		G1522004004
	6,4									G1522004006
	7,9									G1522004008
	9,5									G1522004009
	11,2									G1522004011
	4,8									5,6
7,2		G1522004807								
8,8		G1522004808								
10,3		G1522004810								
11,9		G1522004812								

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

SPEED RIVET

# INSER 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

### APPLICATIONS



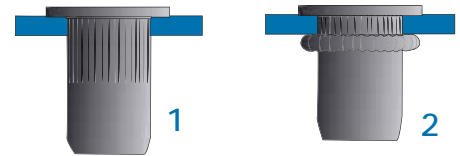
Air conditioning, lifting, furniture, gutters, containers, electrical appliances and home and industrial appliances.



Construction of ventilated facades, profiles, lifelines, metal structures, roofs and facilities.



Automotive, bodywork, truck aluminium sidewalls, tarpaulins and industrial vehicles sectors.



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.

## 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.

## TYPES OF ENDING



### OPEN END








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

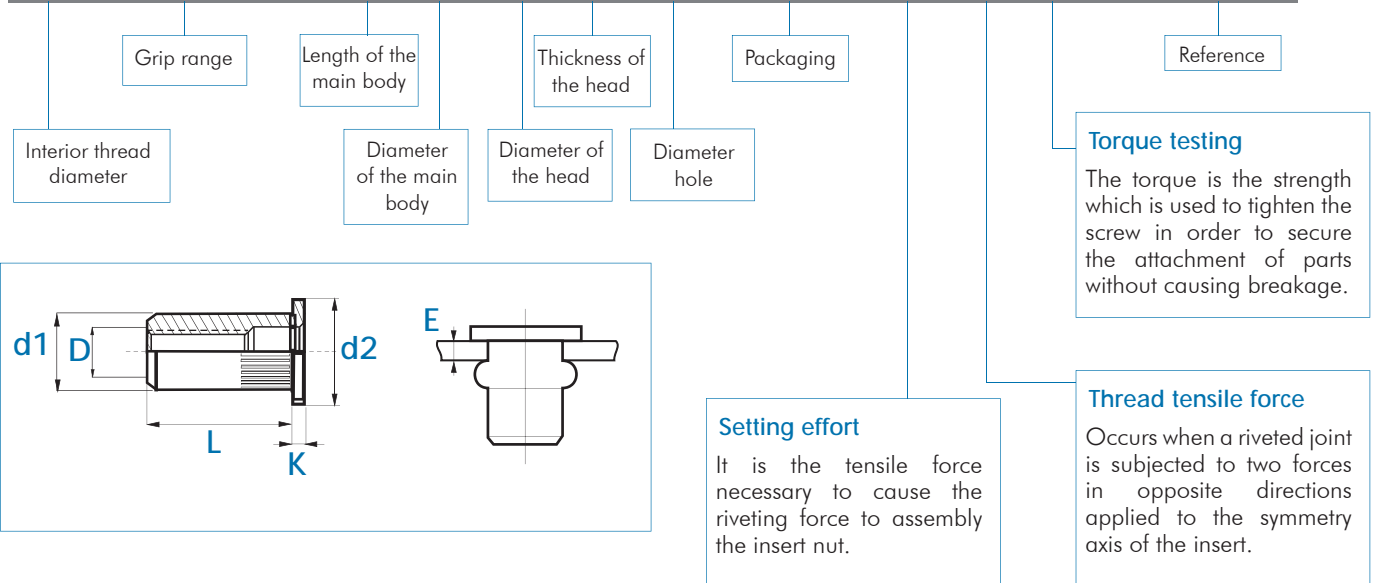


### CLOSED END

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

## DIMENSIONS

D	 E MIN. mm MAX.	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING  Inner  Outer	 (N)	 (N)	 (Nm)	REFERENCE
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## INSERT NUTS TYPES



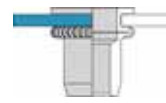
### CYLINDRICAL INSERT NUT

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 AND HALF HEXAGON STUD NUT

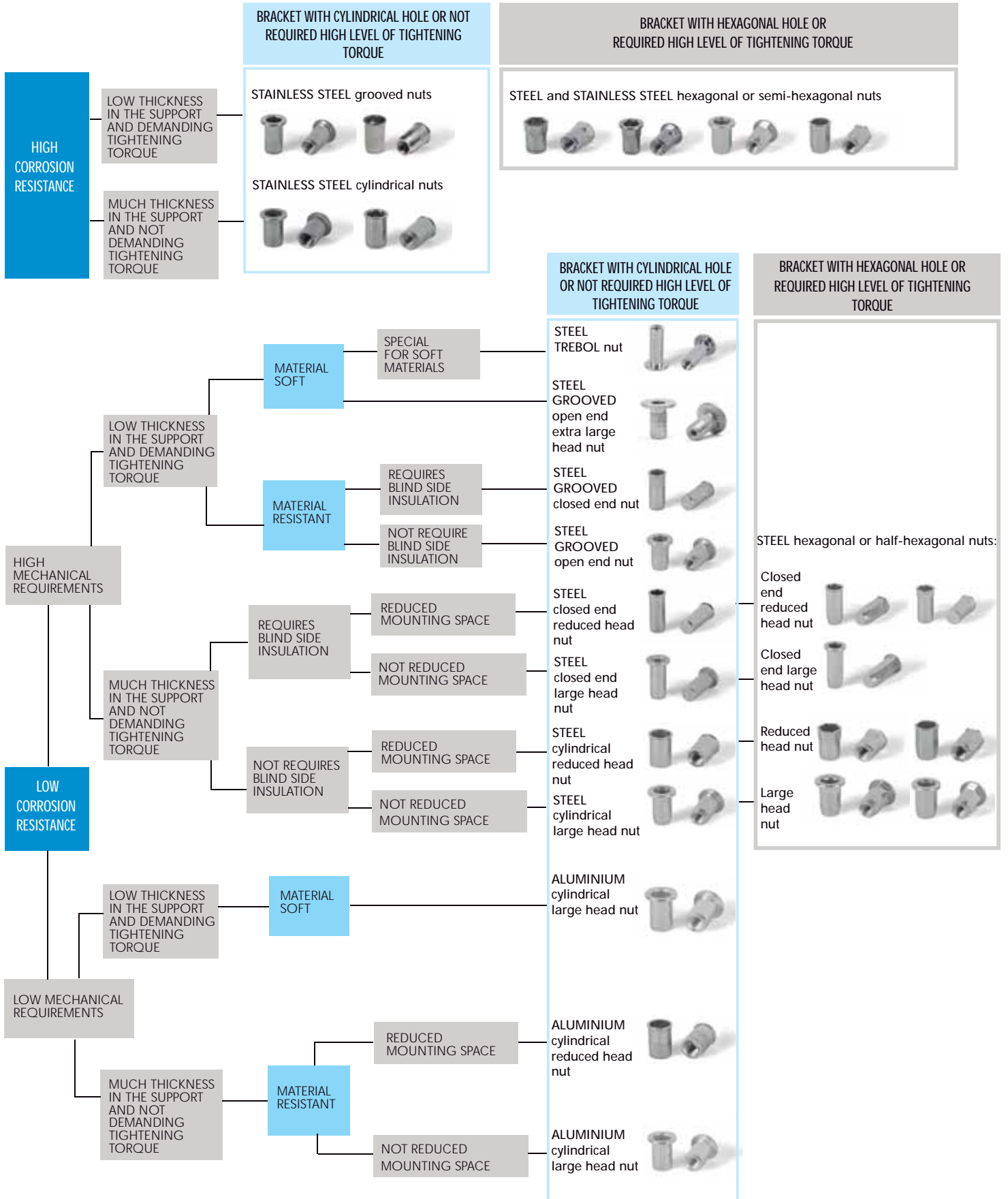
Allows for a pre-installation of the piece to be screwed onto the male thread. Designed for use with applications with heavy parts or those where access is difficult. Used in air conditioning systems, electrical appliances and electronics. Improves the resistance to rotation.





# INSERT NUT SELECTION GUIDE

## HOW TO CHOOSE THE RIGHT PRODUCT FOR YOUR APPLICATION



WHEN INSULATION OF THE BLIND SIDE OR TIGHTENING IS REQUIRED, CLOSED END NUTS MUST BE MADE UPON REQUEST. IN BRALO WE HAVE COUNTERSUNK HEAD NUTS THAT OFFER A FLAT SURFACE BECAUSE THEIR DRILL IS ALSO COUNTERSUNKED.

# SELECTION OF THE INSERT NUT

**1** **Diameter of the head.** BRALO offer many different sizes ranging from M3 to M12. Head selected according to the base material.

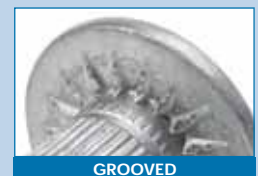
**2** **Nut shape.** There are six types of BRALO nuts: plain, grooved, hexagonal, semi-hexagonal, trebol and rivet stud. also have diverse characteristics such as torque setting, strengths and materials.

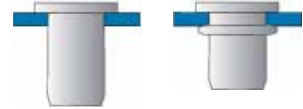
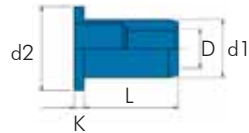
**3** **Types of head.** Three types of heads, low head, countersunk and wide, depending on the finish you want to achieve.

**4** **Range to assemble.** It is necessary to choose the nut that has the parameters within the range of the work to assemble.

**5** **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: galvanised, anodised, zinc nickel, etc. (See page 16).

## SPECIAL NUTS UNDER REQUEST





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	9,70	5,90	8,50	0,80	6,10	500	4.000	4400	8900	4,0	0301104006
	2,0 - 3,5	11,20					500	4.000				0301114006 *
<b>M5</b>	0,5 - 2,5	12,00	6,90	10,00	1,00	7,10	500	4.000	5300	9800	4,8	0301105007
	2,5 - 5,0	16,00					500	4.000				0301115007
	5,5 - 8,0	18,00					500	3.000				0301185007
<b>M6</b>	0,5 - 3,0	14,50	8,90	13,00	1,50	9,10	250	2.000	6500	19100	12,0	0301106009
	3,0 - 5,5	16,50					250	1.500				0301116009
	5,5 - 8,0	21,50					250	1.500				0301186009
<b>M8</b>	0,5 - 3,0	16,50	10,90	16,00	1,50	11,10	250	1.500	8350	29800	23,0	0301108011
	3,0 - 5,5	18,50					200	1.200				0301118011
	5,5 - 8,0	22,50					150	900				0301188011
	8,0 - 10,5	25,50					150	900				03011108011
<b>M10</b>	1,0 - 3,5	17,50	11,90	16,00	1,60	12,10	150	900	12000	34000	30,0	0301101012
<b>M10</b>	1,0 - 3,5	19,50	12,90	19,00	2,00	13,00	150	900	13600	39200	105,6	0301101013 *
	3,5 - 6,0	21,50						500				G301111013 *
	5,5 - 8,0	27,00						500				G301181013 *
<b>M12</b>	1,0 - 4,0	25,00	15,90	23,00	2,00	16,10		500	18000	57800	54,0	G301101216 *

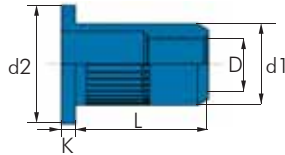
\* In these metrics we have insert nuts without grooves in the lower part of the head.








# GROOVED INSERT NUT

## Large head - Open end

**STEEL**  
Zincplated 8 μ



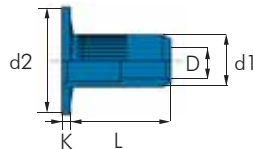
D	 MIN. mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE	
							Inner	Outer					
<b>M3</b>	0,25 - 2,00	9,20	4,90	8,00	0,80	5,10	500	4.000	2400	4100	2,2	0371103005	
<b>M4</b>	0,50 - 2,00	9,70	5,90	9,00	0,80	6,10	500	4.000	3900	7900	4,5	0371104006	
	2,00 - 4,00	12,20					500	4.000					0371114006
<b>M5</b>	0,50 - 3,00	12,00	6,90	10,00	1,00	7,10	500	4.000	5100	11300	7,5	0371105007	
	3,00 - 5,50	15,50					500	4.000					0371115007
<b>M6</b>	0,50 - 3,00	14,50	8,90	13,00	1,50	9,10	250	2.000	6500	19100	17,8	0371106009	
	3,00 - 5,50	16,50					250	1.500					0371116009
	0,50 - 2,00	13,00					250	2.000					0371136009
<b>M8</b>	0,50 - 3,00	17,00	10,90	16,00	1,50	11,10	250	1.500	8400	29800	34,5	0371108011	
	3,00 - 5,50	18,50					200	1.200					0371118011
<b>M10</b>	1,00 - 3,50	19,50	12,90	19,00	2,00	13,10	150	900	11000	43300	60,0	0371101013	
	3,50 - 6,00	21,50					100	600					0371111013
	2,40 - 4,00	19,50						1.000					G371121013
<b>M12</b>	1,00 - 4,00	25,00	15,90	23,00	2,00	16,10		500	14700	47700	161,5	G371101216	






STEEL

# GROOVED INSERT NUT

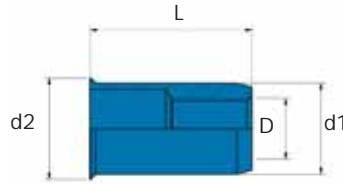
## Extra large head- Open end








**STEEL**  
Zincplated P9B










D	 MIN. mm MAX	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	17,70	9,00	18,50	1,50	9,10		1.000	8600	15000	13,0	G371705009T1
<b>M6</b>	2,4 - 4,5	17,70	8,95	18,30	1,50	9,10		1.000	8700	19100	13,0	G371706009T





D	 MIN. mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
						 Inner	 Outer				
<b>M4</b>	0,5 - 2,0	10,00	5,90	7,00	6,10	500	4.000	3.400	7200	1,5	0301204005
<b>M5</b>	0,5 - 3,0	11,50	6,90	8,20	7,10	500	4.000	5.300	9800	5,7	0301205006
<b>M6</b>	0,5 - 3,0	14,00	8,90	10,30	9,10	500	3.000	6.500	19100	6,5	0301206008
<b>M8</b>	0,5 - 3,0	16,00	10,90	12,00	11,10	250	1.500	8.350	29800	8,6	0301208010

For drills in mm.

D	 MIN. mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
						 Inner	 Outer				
<b>M3</b>	0,5 - 2,0	8,70	4,70	5,30	4,80	1.000	8.000	1700	4400	1,2	0301203005
<b>M4</b>	0,5 - 2,0	11,00	6,25	7,00	6,40	500	4.000	3400	7200	1,5	0301204006
<b>M5</b>	0,5 - 3,0	11,50	7,05	7,80	7,20	500	4.000	5300	9800	5,7	0301205007
<b>M6</b>	0,5 - 3,0	14,00	9,45	10,30	9,60	500	3.000	6500	19100	6,5	0301206009
<b>M8</b>	0,5 - 3,0	16,00	10,50	11,60	10,60	250	1.500	8350	29800	8,6	0301208011*
<b>M10</b>	0,7 - 3,5	19,00	12,70	13,90	13	150	900				0301201013

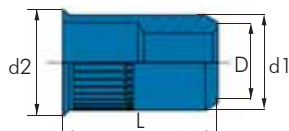
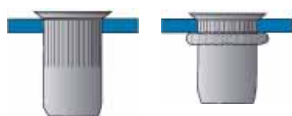
For drills in inches.






\* These nuts will be supplied with the grooved body.



## GROOVED INSERT NUT Reduced head - Open end

**STEEL**  
Zincplated 8 μ

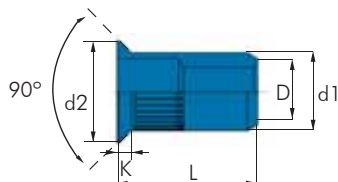
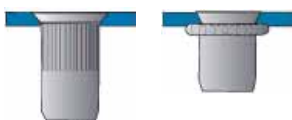







D	 MIN. mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
						Inner	Outer				
M3	0,5 - 2,0	9,00	4,90	6,20	5,10	1.000	8.000				0371203005
M4	0,5 - 2,0	11,20	5,90	7,00	6,10	500	4.000	3900	7900	2,9	0371204006
M5	0,5 - 3,0	11,50	6,90	8,00	7,10	500	4.000	5800	9800	6,0	0371205007
M6	0,5 - 3,0 3,0 - 5,5	14,00 17,00	8,90	10,00	9,10	500 500	3.000 3.000	7100	16500	10,1	0371206009 0371216009
M8	0,5 - 3,0 3,0 - 5,5	16,50 18,50	10,90	12,00	11,10	250 250	1.500 1.500	8400	29800	15,0	0371208011 0371218011
M10	0,7 - 3,5 3,0 - 5,5	21,00 23,50	12,90	14,00	13,10	150	900 500	11000	43300	60,0	0371201013 G371211013
M12	1,0 - 4,0	24,20	15,90	17,00	16,10		500	14700	47700	161,5	G371201216

STEEL

## GROOVED INSERT NUT Countersunk head - Open end

**STEEL**  
Zincplated 8 μ



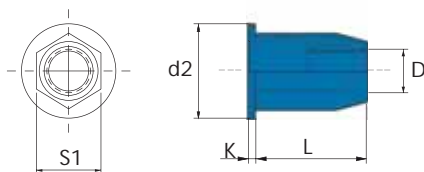
D	 MIN. mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							Inner	Outer				
M4	1,50 - 3,00	11,00	5,90	8,50	1,50	6,10	500	4.000	3900	7900	3,3	0371304006
M5	1,50 - 4,00	13,00	6,90	10,00	1,50	7,10	500	4.000	5800	9800	6,5	0371305007
M6	1,50 - 4,00	16,00	8,90	12,00	1,50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










# STEEL

Zincplated 8 μ

## HEXAGON INSERT NUT Large head - Open end



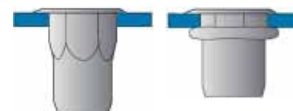
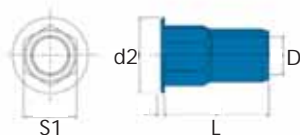
D	 MIN. mm MAX.	L Nominal mm	S1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							 Inner	 Outer				
M4	0,5 - 2,0	10,20	5,90	9,00	0,80	6,10	500	4.000	3400	7900	4,8	0311104006
M5	0,5 - 3,0	13,00	6,90	10,00	1,00	7,10	500	4.000	4900	9800	6,5	0311105007
M6	0,5 - 3,0	14,50	8,90	13,00	1,50	9,10	250	2.000	7100	19100	22,0	0311106009
M8	0,5 - 3,0	16,50	10,90	16,00	1,50	11,10	250	1.500	9600	29800	40,0	0311108011
	3,0 - 5,5	19,50					200	1.200				0311118011
M10	1,0 - 3,5	19,50	12,90	19,00	2,00	13,10	150	900	12600	4300	88,0	0311101013
	3,5 - 6,5	23,50						500				G311111013
M12	1,0 - 4,0	25,00	15,90	23,00	2,00	16,10		500	19100	>57800	115,0	0311101216








STEEL

# STEEL

Zincplated 8 μ

## HALF-HEXAGON INSERT NUT Plane head - Open end



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

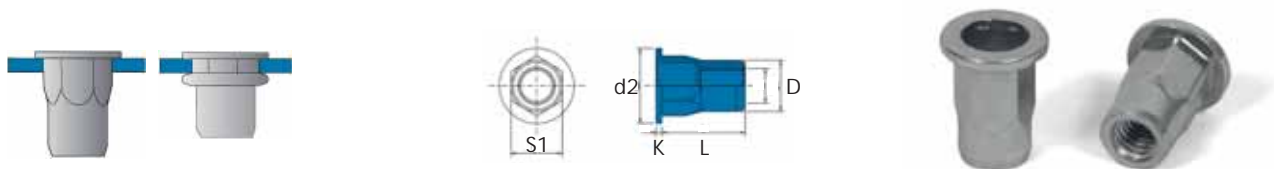




# CYLINDRICAL HEXAGON INSERT NUT

Large head - Open end

**STEEL**  
Zincplated 8 μ



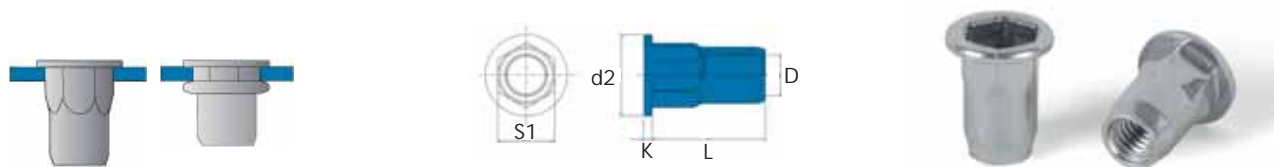
D	E MIN. mm MAX.	L Nominal mm	S1 ∅ mm	d2 ∅ mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
M4	0,5 - 2,5	9,00	5,95	9,00	0,90	6,10	500	4.000	3400	7900	4,8	0334104006
M5	0,5 - 3,0	12,50	6,95	10,00	1,00	7,10	500	4.000	7000	9800	6,5	0334105007
M6	0,5 - 3,0	14,50	8,95	13,00	1,50	9,10	250	2.000	6000	16500	25,0	0334106009
M10	0,8 - 3,0	20,00	12,95	19,00	2,00	13,10	150	900	13400	36000	60,0	0334101013
M12	1,0 - 4,0	25,50	15,95	23,00	2,20	16,10		500	19100	44000	126,0	G334101216

STEEL

# HALF-HEXAGON INSERT NUT

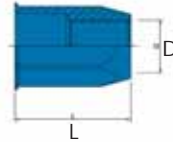
Large head - Open end

**STEEL**  
Zincplated 8 μ



D	E MIN. mm MAX.	L Nominal mm	S1 ∅ mm	d2 ∅ mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
M6	0,5 - 3,0	14,50	8,95	13,00	1,50	9,10	250	2.000	7100	19100	22,0	0331106009
M8	0,5 - 3,0	16,50	10,95	16,00	1,50	11,10	250	1.500	7500	29800	40,0	0331108011
M12	1,0 - 4,0	25,00	15,95	23,00	2,00	16,10		500	17200	44000	115,0	0331101216





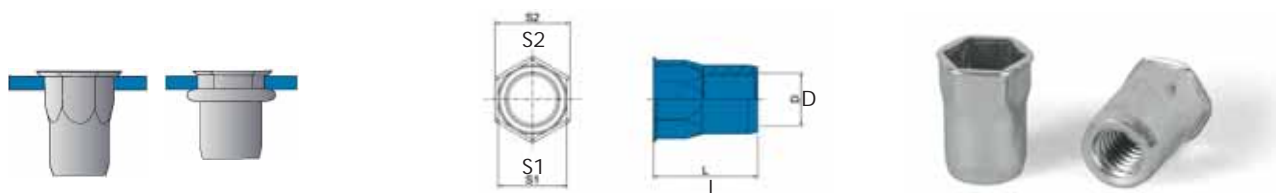
D	E MIN. mm MAX	L Nominal mm	S1 ∅ mm	S2 ∅ mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
						Inner	Outer				
M4	0,5 - 2,0	11,00	5,90	7,20	6,10	500	4.000	3400	7900	4,1	0311204006
M5	0,5 - 3,0	14,50	6,90	8,00	7,10	500	4.000	4900	9800	6,5	0311205007
	3,0 - 5,5										
M6	0,5 - 3,0	16,00	8,90	10,00	9,10	500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










# HALF-HEXAGON INSERT NUT








## Reduced head - Open end

**STEEL**  
Zincplated 8 μ



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

For drills in mm.

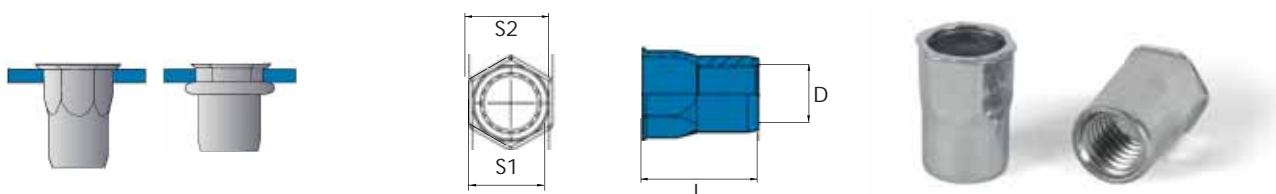
D	 E MIN. mm MAX	L Nominal mm	S1 ∅ mm	S2 ∅ mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
						 Inner	 Outer				
<b>M4</b>	0,5 - 2,5	10,50	6,35	7,00	6,40	500	4.000	2900	7900	4,6	0331204006
<b>M5</b>	0,7 - 3,0	11,70	7,10	7,80	7,20	500	4.000	3600	9800	6,2	0331205007
<b>M6</b>	0,5 - 3,0	14,50	9,50	10,60	9,60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








For drills in inches.

# CYLINDRICAL HEXAGON INSERT NUT

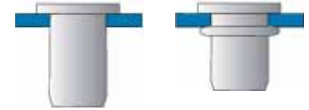
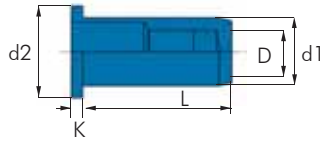
## Reduced head - Open end






**STEEL**  
Zincplated 8 μ



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



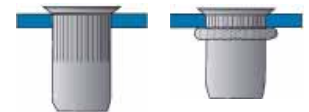
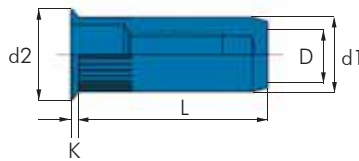







D	 MIN. mm MAX.	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							Inner	Outer				
M4	0,5 - 2,5	15,70	5,95	9,00	0,80	6,10	500	4.000	4400	7900	3,0	0301404006
M5	0,5 - 2,5	18,00	6,90	10,00	1,00	7,10	500	3.000	5300	9800	7,0	0301405007 *
M6	0,5 - 3,0	21,50	8,90	12,80	1,50	9,10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

Note: \* This insert nut has grooves under the head.



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

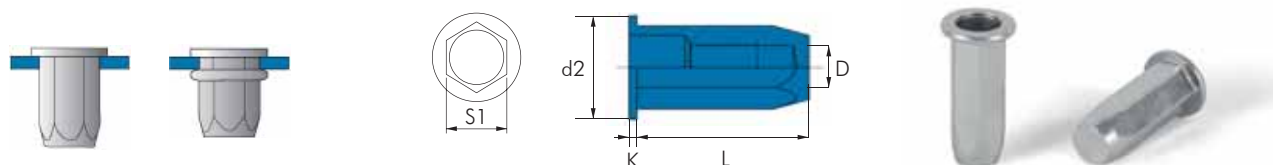


D	 MIN. mm MAX.	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							Inner	Outer				
M4	0,5 - 2,5	15,00	5,90	7,00	0,50	6,10	500	4.000	3000	7000	2,9	0375204006
M5	0,5 - 3,0	18,00	6,90	8,00	0,50	7,10	500	3.000	5800	9800	6,0	0375205007
M6	0,5 - 3,0	21,50	8,90	10,00	0,50	9,10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



# HEXAGON INSERT NUT Large head - Closed end

**STEEL**  
Zincplated 8 μ

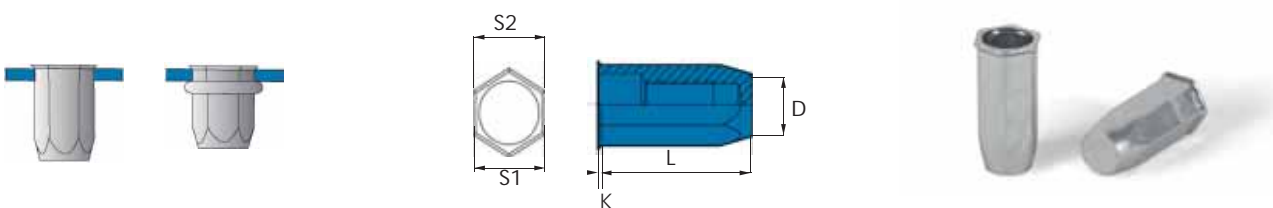


D	E MIN. mm MAX	L Nominal mm	S1 ∅ mm	d2 ∅ mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
M4	0,5 - 2,5	15,00	5,95	9,00	0,90	6,10	500	4.000	3400	7900	4,8	0311404006
M5	0,5 - 3,0	19,00	6,95	10,00	1,00	7,10	500	3.000	4900	9300	6,8	0311405007
M6	0,5 - 3,0	21,50	8,95	13,00	1,50	9,10	250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

STEEL

# HEXAGON INSERT NUT Reduced head - Closed end

**STEEL**  
Zincplated 8 μ



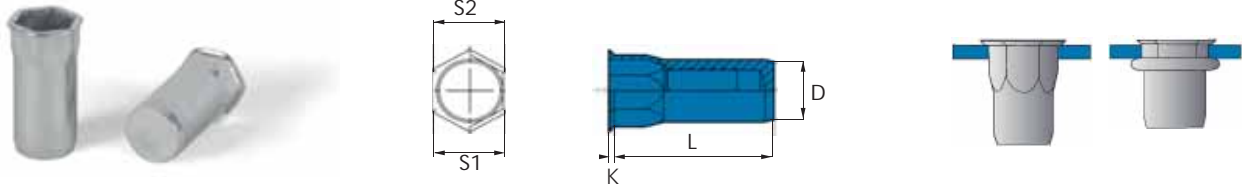
D	E MIN. mm MAX	L Nominal mm	S1 ∅ mm	S2 ∅ mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
M4	0,5 - 2,0	16,00	5,95	7,00	0,50	6,10	500	4.000				0311704006
M5	0,5 - 2,0	20,00	6,95	8,00	0,50	7,10	500	3.000	4900	9800	8,0	0311705007
M6	0,5 - 3,0	22,00	8,95	10,00	0,50	9,10	250	1.500	7100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



# STEEL

Zincplated 8 μ

## HALF-HEXAGON INSERT NUT Reduced head - Closed end



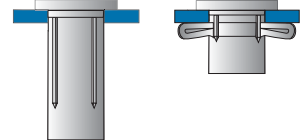
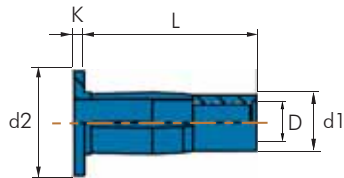
D	E MIN. mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
M4	0,5 - 2,0	16,30	5,90	7,00	0,50	6,10	500	4.000	2800	7900	4,6	0331704006
M5	0,5 - 3,0	18,30	6,90	8,00	0,50	7,10	500	4.000	4300	9800	6,2	0331705007
M6	0,5 - 3,0	21,30	8,90	10,00	0,60	9,10	250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

STEEL

# STEEL

Zincplated 8 μ

## TREBOL INSERT NUT Large head - Open end



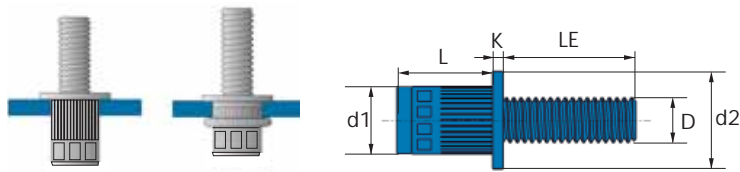
D	E MIN. mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	mm	PACKAGING		REFERENCE
							Inner	Outer	
M5	0,5 - 4,5	21,00	7,40	13,00	1,00	7,50	2.000		G301605006
M6	0,5 - 7,1	25,50	8,70	16,00	1,50	8,80	1.000		G301606008
M8	0,5 - 7,1	29,00	11,00	19,00	1,50	11,20	500		G301608010
M10	0,5 - 7,1	31,00	13,00	22,00	1,50	13,20	500		G301601013



+S



## GROOVED STUD NUT Large head - Closed end

**STEEL**  
Zincplated 8 μ

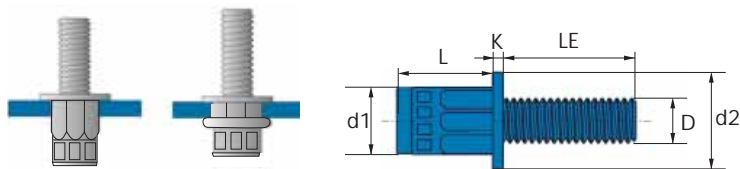




D	 MIN. mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	LE mm	 mm	PACKAGING		REFERENCE
								Inner	Outer	
<b>M5</b>	0,5 - 3,0	11,00	7,00	10,00	1,00	14,50	7,10	500	3.000	0370005014
<b>M6</b>	1,0 - 3,0	15,70	9,00	12,00	1,30	14,00	9,10	250	1.500	0370006014
	1,0 - 3,0	15,70						200	1.200	0370006019
	1,0 - 3,0	15,70						150	900	0370006024
<b>M8</b>	1,0 - 3,0	18,50	15,00	15,00	1,50	19,00	11,10	150	900	0370008019
	1,0 - 3,0	18,50						100	600	0370008024

STEEL

## HALF-HEXAGON STUD NUT Large head - Closed end

**STEEL**  
Zincplated 8 μ



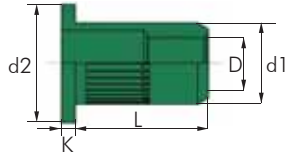
D	 MIN. mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	LE mm	 mm	PACKAGING		REFERENCE
								Inner	Outer	
<b>M5</b>	0,5 - 2,5	11,00	7,00	10,00	1,00	14,50	7,10	500	3.000	0370105014
<b>M6</b>	1,0 - 3,0	15,70	9,00	13,00	1,50	14,50	9,10	250	1.500	0370106014
	1,0 - 3,0	15,70						200	1.200	0370106019
	1,0 - 3,0	15,70						150	900	0370106024
<b>M8</b>	1,0 - 3,0	18,50	8,98	15,00	1,50	19,00	11,10	100	600	0370108019
	1,0 - 3,0	18,50						100	600	0370108024



# INOX A2

AISI 304

## GROOVED INSERT NUT Large head - Open end



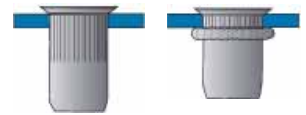
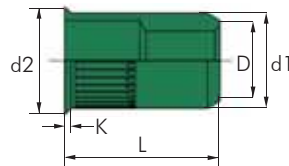
D	E MIN. mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
M4	0,5 - 2,0	9,50	5,90	9,00	1,00	6,10	500	4.000	5.600	9.100	6,4	0373104006
M5	0,5 - 3,0	12,00	6,90	10,00	1,00	7,10	500	4.000	6800	15800	8,4	0373105007
	3,0 - 4,5	13,50					500	4.000				0373115007
M6	0,5 - 3,0	16,50	8,90	13,00	1,50	9,10	250	2.000	6500	14000	17,8	0373106009
M8	0,5 - 3,0	16,50	10,90	16,00	1,50	11,10	250	1.500	10600	40600	62,5	0373108011
	3,0 - 5,5	18,50					200	1.200				0373118011
M10	1,0 - 3,5	19,00	12,90	17,00	2,00	13,10	150	900	11300	>49000	111,7	0373101013
	3,5 - 6,0	21,50					100	600				0373111013

INOX

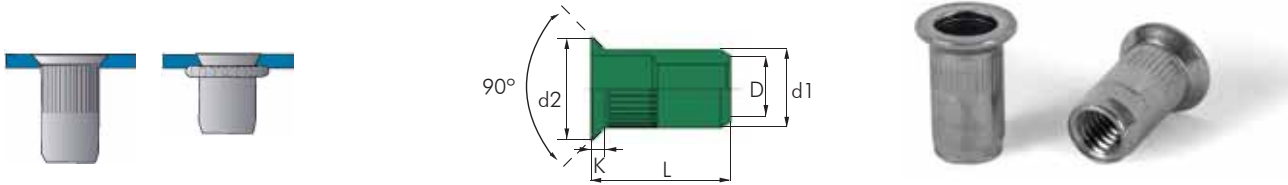
# INOX A2








AISI 304

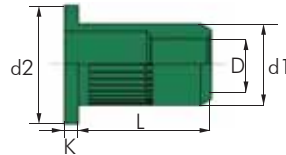
## GROOVED INSERT NUT Reduced head - Open end



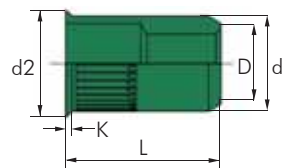
D	E MIN. mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
M3	0,5 - 2,0	9,00	4,90	6,00	0,50	5,10	500	4.000	2700	3100	2,3	0373203005
M4	0,5 - 2,0	10,40	5,90	7,00	0,50	6,10	500	4.000	4800	10300	5,5	0373204006
M5	0,5 - 3,0	11,50	6,90	8,00	0,60	7,10	500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



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	1,5 - 3,0	11,00	5,90	9,00	1,50	6,10	500	4.000	4900	9100	6,4	0373304006
M5	1,5 - 4,0	13,00	6,90	9,60	1,50	7,10	500	4.000	6800	12800	8,4	0373305007
M6	1,5 - 4,0	16,00	8,90	11,70	1,60	9,10	250	2.000	9000	21600	26,7	0373306009
M8	1,5 - 4,0	18,50	10,90	13,50	1,60	11,10	250	1.500	12300	36300	34,5	0373308011



D	E MIN. mm MAX.	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	mm	PACKAGING	(N)	(N)	(Nm)	REFERENCE
M4	0,5 - 2,5	11,00	5,90	9,00	1,00	6,10	500 4.000	5600	9100	6,4	0373104006A4
M5	0,5 - 3,0	12,00	6,90	10,00	1,00	7,10	500 4.000	6800	15800	8,4	0373105007A4
M6	0,5 - 3,0	14,00	8,90	14,00	1,50	9,10	250 2.000	9000	23800	26,7	0373106009A4
M8	0,5 - 3,0	16,00	10,90	15,00	1,50	11,10	250 1.500	10600	40600	62,5	0373108011A4
M10	1,0 - 3,5	19,00	12,90	17,00	2,00	13,10	150 900	11300	49000	111,7	0373101013A4

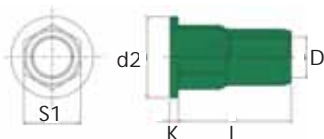
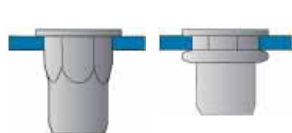


D	E MIN. mm MAX.	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	mm	PACKAGING	(N)	(N)	(Nm)	REFERENCE
M3	0,5 - 2,0	9,00	4,90	6,00	0,50	5,10	500 4.000	1700	2900	1,5	0373203005A4
M4	0,5 - 2,5	11,00	5,90	7,00	0,50	6,10	500 4.000	4800	10300	5,5	0373204006A4
M5	0,5 - 3,0	12,00	6,90	8,00	0,50	7,10	500 4.000	7300	14300	8,6	0373205007A4
M6	0,5 - 3,0	14,00	8,90	10,00	0,50	9,10	500 3.000	9600	23700	14,7	0373206009A4
M8	0,5 - 3,0	16,00	10,90	12,00	0,50	11,10	250 1.500	11300	38600	20,0	0373208011A4
M10	1,0 - 3,5	19,00	12,90	14,30	0,50	13,10	150 900	13400	>49000	27,5	0373201013A4

# HALF-HEXAGON INSERT NUT

## Large head - Open end

**INOX A2**  
AISI 304



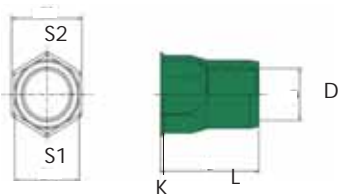
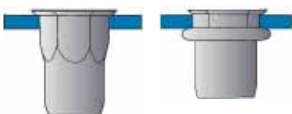
D	E MIN. mm MAX	L Nominal mm	S1 Ø mm	d2 Ø mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
M4	0,5 - 2,5	11,00	5,90	9,00	1,00	6,10	500	4.000				0333104006
M5	0,5 - 3,0	12,00	6,90	10,00	1,00	7,10	500	4.000	3300	13200	9,1	0333105007
M6	0,5 - 3,0	14,00	8,90	12,00	1,50	9,10	250	2.000	7700	21600	19,7	0333106009
M8	0,5 - 3,0	16,00	10,90	15,00	1,50	11,10	250	1.500	11200	36300	26,5	0333108011
M10	1,5 - 3,5	19,00	13,00	16,00	2,00	13,10	150	900				0333101013

INOX

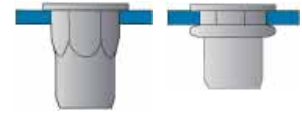
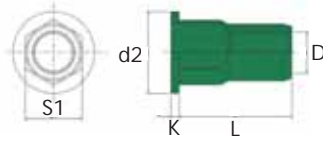
# HALF-HEXAGON INSERT NUT

## Reduced head - Open end

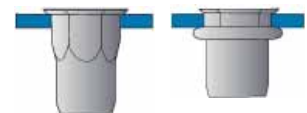
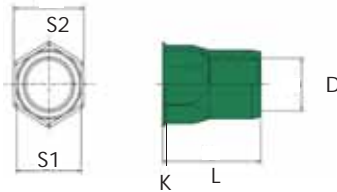
**INOX A2**  
AISI 304



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



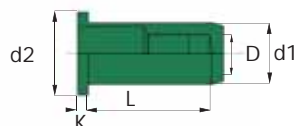
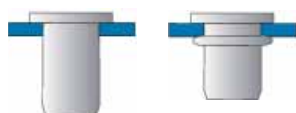
D	E MIN. mm MAX.	L Nominal mm	S1 Ø mm	d2 Ø mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
M4	0,5 - 2,5	11,00	5,90	7,00	1,00	6,10	500	4.000				0333104006A4
M5	0,5 - 3,0	12,00	6,90	8,00	1,00	7,10	500	4.000	3300	13200	9,1	0333105007A4
M6	0,5 - 3,0	14,00	8,90	10,00	1,50	9,10	250	2.000	7700	21600	19,7	0333106009A4
M8	0,5 - 3,0	16,00	10,90	12,00	1,50	11,10	250	1.500	11200	36300	26,5	0333108011A4

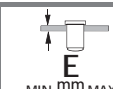








D	E MIN. mm MAX.	L Nominal mm	S1 Ø mm	S2 Ø mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
M4	0,5 - 2,0	11,00	5,90	7,00	0,50	6,10	500	4.000	2900	7900	4,6	0333204006A4
M5	0,5 - 3,0	12,00	6,90	8,00	0,50	7,10	500	4.000	5000	15800	8,8	0333205007A4
M6	0,5 - 3,0	14,00	8,90	10,00	0,60	9,10	500	2.000	7700	21600	15,5	0333206009A4
M8	0,5 - 3,0	16,00	10,90	12,00	0,60	11,10	250	1.500	11200	36300	24,5	0333208011A4
M10	1,0 - 3,5	19,00	12,90	14,20	0,85	13,10	150	900	11400	47800	91,6	0333201013A4

## CYLINDRICAL INSERT NUT Large head - Closed end

**INOX A2**  
AISI 304

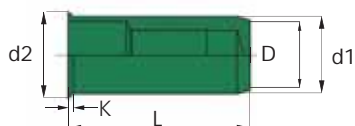









D	 MIN, mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							 Inner	 Outer				
M4	0,5 - 2,5	16,00	5,90	9,00	1,00	6,10	500	4.000	4900	10000	2,2	0303404006
M5	0,5 - 3,0	18,00	6,90	10,00	1,00	7,10	500	3.000	6000	15800	3,2	0303405007
M6	0,5 - 3,0	21,00	8,90	12,00	1,50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

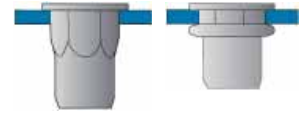
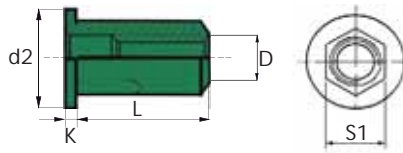
INOX

## CYLINDRICAL INSERT NUT Reduced head - Closed end

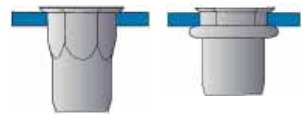
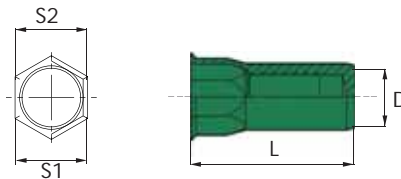
**INOX A2**  
AISI 304



D	 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 - 3,0	16,00	5,90	7,00	0,50	6,10	500	4.000	4900	10000	2,2	0303704006
M5	0,5 - 3,0	18,00	6,90	8,00	0,50	7,10	500	3.000	7000	13000	2,5	0303705007
M6	0,5 - 3,0	21,00	8,90	10,00	0,50	9,10	250	1.500	8500	24300	8,6	0303706009
M8	0,5 - 3,0	23,50	10,90	12,00	0,50	11,10	250	1.500	12350	36300	15,6	0303708011



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

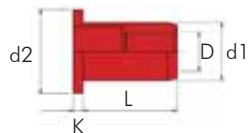
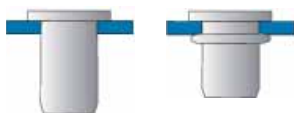







D	E MIN. mm MAX	L Nominal mm	S1 Ø mm	S2 Ø mm	K mm	mm	PACKAGING		(N)	(N)	(Nm)	REFERENCE
							Inner	Outer				
M4	0,5 - 2,5	16,00	5,90	7,00	0,50	6,10	500	4.000	5600	10000	4,9	0333704006
M5	0,5 - 3,0	18,00	6,90	8,00	0,50	7,10	500	4.000	7200	12000	8,8	0333705007
M6	0,5 - 3,0	21,00	8,90	10,00	0,50	9,10	250	1.500	9000	21600	15,5	0333706009
M8	0,5 - 3,0	23,50	10,90	12,00	0,50	11,10	200	1.200	11200	36300	26,5	0333708011



## CYLINDRICAL INSERT NUT Large head - Open end

ALUMINIUM

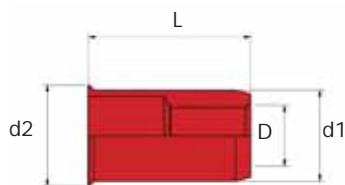
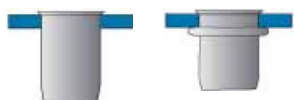







D	 MIN. mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							Inner	Outer				
M4	0,5 - 2,0	9,50	5,90	9,00	1,00	6,10	500	4.000	3400	4300	2,0	0302104006
M5	0,5 - 3,0	12,00	6,90	10,00	1,00	7,10	500	4.000	4400	8300	5,5	0302105007
	3,0 - 5,5	15,00					500	4.000				
M6	0,5 - 3,0	14,50	8,90	13,00	1,50	9,10	250	2.000	6250	10500	9,0	0302106009
	3,0 - 5,5	16,50					250	1.500				
M8	0,5 - 3,0	16,50	10,90	16,00	1,50	11,10	250	1.500	4600	15400	14,0	0302108011
	3,0 - 5,5	18,50					200	1.200				

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

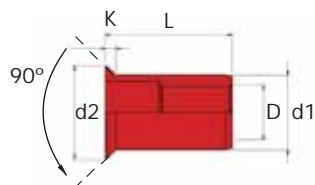







D	 MIN. mm MAX	L Nominal mm	d1 Ø mm	d2 Ø mm	K mm	 mm	PACKAGING		 (N)	 (N)	 (Nm)	REFERENCE
							Inner	Outer				
M4	0,5 - 2,5	11,00	5,90	7,00	0,50	6,10	500	4.000	3600	6200	1,6	0302204006
M5	0,5 - 3,0	12,00	6,90	8,00	0,50	7,10	500	4.000	4400	8300	5,5	0302205007
M6	0,5 - 3,0	14,50	8,90	10,00	0,50	10,00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

ALUMINIUM

## CYLINDRICAL INSERT NUT Countersunk head - Open end

ALUMINIUM



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

# PNEUMATIC RIVETING TOOLS FOR RIVETS

The **BNT range** are **professional riveting tool** that set rivets at high speed. Pneumatic tools that **increase productivity** thanks to their technical characteristics.

- ✓ **High riveting force** for series applications.
- ✓ **Light tool.**
- ✓ **Easy maintenance and high durability parts**, it has parts more resistant and reliable.
- ✓ **Ergonomics and stability**, thanks to the balanced design and low vibrations.
- ✓ **100% use of air pressure.**
- ✓ **Suction system** through the graduation valve.



## CHARACTERISTICS

- Main body made of **high-density aluminum**.
- **Transparent mandrel collector** for increased safety and visibility.
- **Security valve.**
- **Air control valve.**
- **High resistance** rubber base.
- Ring for hanging.
- Anodized for greater resistance.
- Head or nozzle holder with access to **narrow riveting points.**
- **Ergonomic handles.**



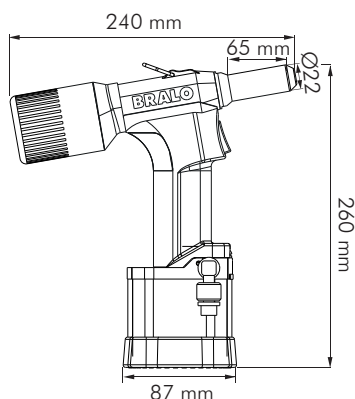
## Which pneumatic tool to choose?

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				**	✓
6,5 Multilock	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.



Ref: 02BNT1010



TECHNICAL DATA

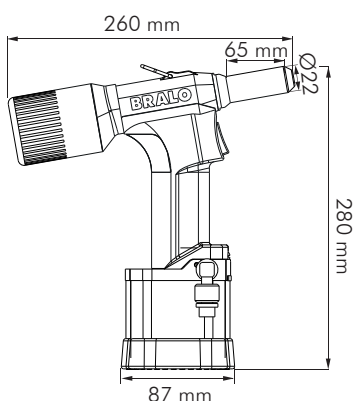
WEIGHT: 1.320 grs.  
STROKE: 15 mm.  
\*TENSILE STRENGTH: 8.400 N.  
CAPACITY: Up to 5,0 mm.

RIVET ∅ mm	MATERIAL			
	Aluminium	Steel	Stainless Steel	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



TECHNICAL DATA

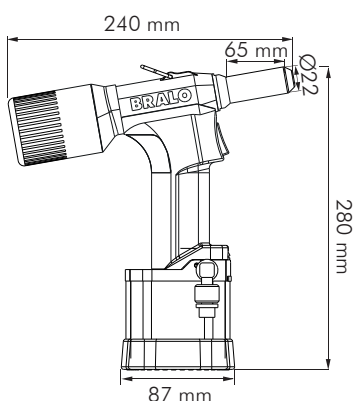
WEIGHT: 1.340 grs.  
STROKE: 24 mm.  
\*TENSILE STRENGTH: 8.400 N.  
CAPACITY:  
Up to 4,8-5,0 mm.  
With a special nosepiece 5,2 mm S-Trebol.

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

\* Force measured at 6 Bar.



Ref: 02BNT3010



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 ∅ mm	MATERIAL			
	Aluminium	Steel	Stainless Steel	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.



BNT-2

BNT-3



Video: maintenance  
BNT range tools

## BNT-4

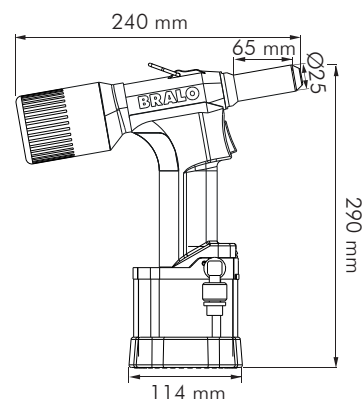
## PNEUMATIC RIVETING TOOLS for rivets

### 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	Stainless Steel	Copper
4,8	✓	✓	✓	✓
5,0	✓	✓	✓	
6,0 - 6,4	✓	✓	✓	
4,8 Hardgrip		✓	✓	

Ref: 02BNT4010



\* Force measured at 6 Bar.

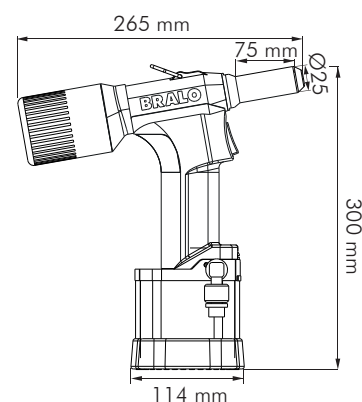
## BNT-5

### 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	Stainless Steel	Copper
6,5 Structural	✓	✓	✓	

Ref: 02BNT5010



\* Force measured at 6 Bar.

### ACCESSORIES BNT

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.

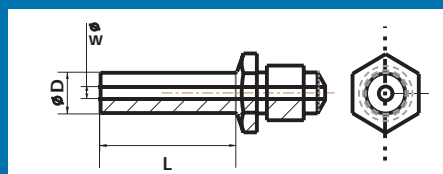
### SPECIAL NOSEPIECES FOR LONG MANDRELS

BNT pneumatic riveting tools offer as optional accessories special nosepieces for long mandrel rivets from 3.0 to 5.0 mm diameter.

### LONG MANDREL CATCHER

Mandrel collector Std  
Ref.: 05BNT000402

Mandrel collector Large  
Ref.: 05BNT00L402



Check prices in our SPARE PARTS PRICELIST

Powerful and ergonomic tools, with an efficient configuration system, designed to meet the needs of the most demanding applications.

## HYDRO-PNEUMATIC RIVETS POWER AND SPEED

- ✓ Range for **high strength rivets** such as collar, structural and Estrubolt.
- ✓ **Ergonomic gun** made of aluminum.
- ✓ **Quick and easy** to use installation equipment.
- ✓ Ideal to be used in **assembly lines**.
- ✓ **Silent tools**.
- ✓ **High durability** and easy maintenance.
- ✓ They get a **quality rivet**.



**ERGONOMIC GUN**

For greater operator comfort.

### BRALO HT-30

STANDARD  
Ø 4,8 and 6,5



STRUCTURAL  
Ø 4,8 and 6,5 mm



HARDLOCK  
Ø 4,8 and 6,4 mm



BRALOCK  
Ø 4,8 and 6,4 mm



UNILOCK  
Ø 4,8 and 6,4 mm



### BRALO HT-40

STRUCTURAL  
Ø 6,5 and 9,7 mm



BRALOCK  
Ø 4,8, 6,4 and 8,0 mm



UNILOCK  
Ø 4,8, 6,4, 8,0 and 10,0



ESTRUBOLT  
Ø 4,8, 6,4 and 8,0 mm



### BRALO HT-60

ESTRUBOLT  
Ø 8,0 and 10,0 mm



BRALOCK  
Ø 8,0 and 10,0 mm



UNILOCK  
Ø 8,0 and 10,0 mm



### BRALO HT-100

ESTRUBOLT  
Ø 10,0 and 13,0 mm



UNILOCK  
Ø 12,0 mm





The BRALO HT-30 Riveter is a professional machine designed to install 4.8 and 6.4 diameter rivets standard, structural, hardlock and lockbolts.

### TECHNICAL DATA

GUN WEIGHT: 1,2 Kg.

PULL FORCE: 30.000N

STROKE: 25 mm.

CAPACITY: blind rivets of 4.8 and 6.5 and Structural and Hardlock rivets from 4.8 and 6.4 m and lockbolts (Unilock and Bralock)



ARTICLE	REFERENCE
HT-30	02HT30000



- 05HT30R000 KIT RIVETING Ø4,8 STANDARD
- 05HT30R000 KIT RIVETING Ø6,5 STANDARD
- 05HT30R000 KIT RIVETING Ø4,8 STRUCTURAL
- 05HT30R000 KIT RIVETING Ø6.5 STRUCTURAL
- 05HT30R000 KIT RIVETING Ø4.8 HARDLOCK
- 05HT30R000 KIT RIVETING Ø6.4 HARDLOCK
- 05BM3002023 KIT RIVETING Ø4.8 UNILOCK
- 05BM3002024 KIT RIVETING Ø6.4 UNILOCK
- 05BM3002021 KIT RIVETING Ø4,8 BRALOCK
- 05BM3002022 KIT RIVETING Ø6.4 BRALOCK

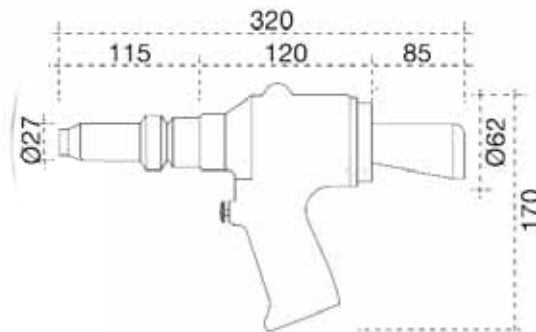
The BRALO HT-40 Riveter is a professional setting equipment with the capacity to fix Structural rivets up to 9.7 mm, Estrubolt and lockbolts.

### TECHNICAL DATA

GUN WEIGHT: 1,2 Kg.  
 DIMENSIONS: 495 x 295x 250 mm  
 PULL FORCE: 40.000N  
 STROKE: 32 mm.  
 CAPACITY: Structural 6.5 and 9.7 mm,  
 Estrubolt 4.8 to 8.0 mm and lockbolts: Bralock  
 4.8, 6.4 and 8.0 and Unilock 4.8 to 10.0.



ARTICLE	REFERENCE
HT-40	02HT40000



05BM3002010	KIT RIVETING Ø9.7 STRUCTURAL
05BM3002011	KIT RIVETING LONG Ø6.5 STRUCTURAL
05BM3002020	KIT RIVETING Ø6.5 STRUCTURAL
05BM3002021	KIT RIVETING Ø4.8 BRALOCK
05BM3002022	KIT RIVETING Ø6.4 BRALOCK
05BM3002023	KIT RIVETING Ø4.8 UNILOCK
05BM3002024	KIT RIVETING Ø6.4 UNILOCK
05BM3002025	KIT RIVETING Ø8.0 UNILOCK
05BM3002026	KIT RIVETING Ø10.0 UNILOCK
05BM3002027	KIT RIVETING Ø6.4 ESTRUBOLT
05BM3002028	KIT RIVETING Ø8.0 ESTRUBOLT
05BM3002029	KIT RIVETING Ø4,8 ESTRUBOLT
05HT00B0800	KIT RIVETING Ø8.0 BRALOCK



The BRALO HT-60 Riveter is designed to place large size rivets such as 8 and 10 mm diameter Estrubolt and lockbolts.

### TECHNICAL DATA

GUN WEIGHT: 2,2 Kg.  
PULL FORCE: 60.000N  
STROKE: 24 mm.  
CAPACITY: Estrubolt rivet 8 and 10 mm and  
Bralock and Unilock 8 and 10 mm.

REFERENCE	REFERENCE
HT-60	02HT60000

05BM3002028	KIT RIVETING Ø8.0 ESTRUBOLT
05HT00E1000	KIT RIVETING Ø10.0 ESTRUBOLT
05HT00B0800	KIT RIVETING Ø8.0 BRALOCK
05HT00B1000	KIT RIVETING Ø10.0 BRALOCK
05BM3002025	KIT RIVETING Ø8.0 UNILOCK
05BM3002026	KIT RIVETING Ø10.0 UNILOCK



# BRALO HT-100

The BRALO HT-100 Riveter is designed to place large size rivets such as 10 and 13 mm diameter Estrubolt and Unilock 12 mm.

### TECHNICAL DATA

GUN WEIGHT: 2,2 Kg.  
PULL FORCE: 100.000N  
STROKE: 24 mm.  
CAPACITY: Estrubolt rivet 10 and 13 mm and  
Unilock 12 mm.

Also available with electric trigger for outdoor use with  
electro-hydraulic intensifier

ARTICLE	REFERENCE
HT-100*	02HT10000

\* Optional with electro-hydraulic intensifier.

05HT00E1000	KIT RIVETING Ø10.0 ESTRUBOLT
05HT00E1200	KIT RIVETING Ø13.0 ESTRUBOLT
05HT00U1200	KIT RIVETING Ø12.0 UNILOCK



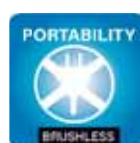
# BRALO

## RELIABILITY AND RESISTANCE

- High power riveting machine.
- High speed for the most demanding jobs.
- Fascinating quality and reliability.
- Durability and robustness.
- Ergonomics and low weight for greater comfort.

### MORE THAN 40 DIFFERENT NOSEPIECES

To adapt to the different needs of customers:



### CHARACTERISTICS

- ✓ **Fast and efficient** tool for large quantities of rivets
- ✓ **Ergonomics and low weight** for greater operator comfort.
- ✓ **Powerful LI-ION battery** with long life.
- ✓ LED light for **greater visibility** in the work area.
- ✓ **Transparent mandrel collector** for added safety.
- ✓ **Hook for hanging** on assembly lines.

### TECHNICAL DATA

WEIGHT: 1,72 Kg.  
DIMENSIONS: 280 x 270 x 75 mm  
PULL FORCE: 19600N  
STROKE: 25 mm.  
CAPACITY: from 2,4 to 6,5 and Structural and S-trebol 7,8 mm.

Ø mm	RIVET						
	Standard	Structural	S-trebol	G-BRA	Versagrip	Hardgrip	Hardlock
2,4	*						
3,2	✓					✓	
4,0	✓				✓	✓	
4,8	✓	*			✓	✓	
5,2			*				
6,0	✓					✓	
6,4	✓		*	*	✓		✓
6,5		*					
7,8	*		*				

\* A special nosepiece is required and is supplied as an accessory.

ARTICLE	REFERENCE
BT-20	02BT20010



# PNEUMATIC RIVETING TOOLS FOR SPEED RIVETS

RR-10

PNEUMATIC RIVETING TOOL  
for speed rivets

The BRALO RR-10 is an oleopneumatic tool that fastens BSR, BSV speed rivets.

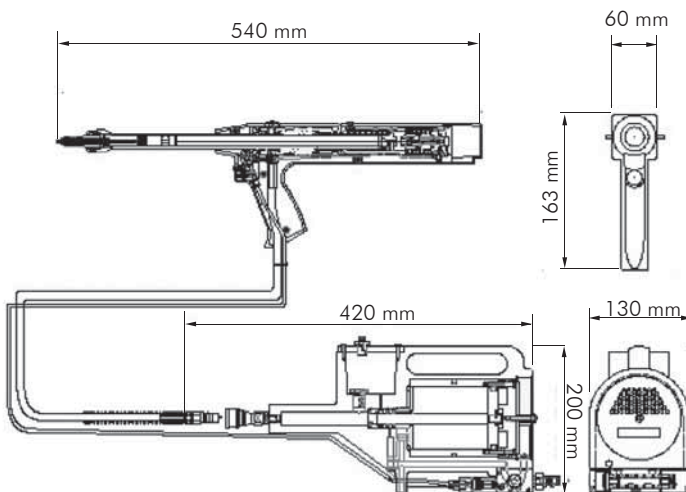
It is a lightweight, ergonomic tool, with an efficient setting system, designed to meet the needs of the most demanding of applications. It is ideally used in assembly lines and capable of setting all types of speed rivets from 3.2 to 4.8 mm.

## 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	✓	✓	✓	✓

## EFFICIENCY AND SPEED LIGHT TOOL

### CHARACTERISTICS

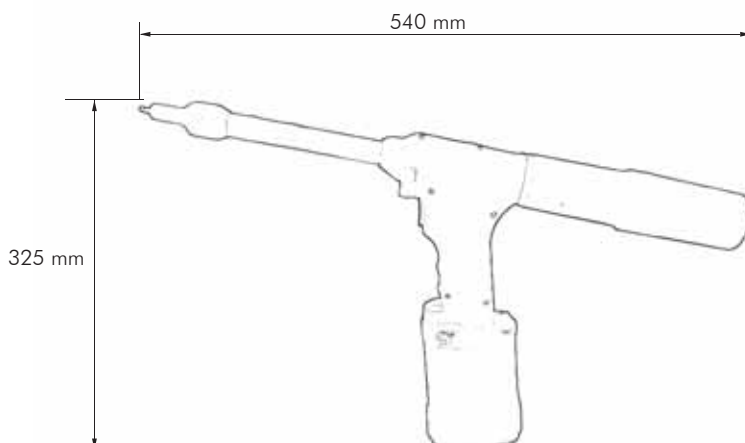
- ✓ Effective rivet machine with pneumatic cup.
- ✓ Automatic rivet feeding.
- ✓ High riveting speed.
- ✓ Increased productivity.
- ✓ Ergonomic handle that facilitates user comfort.
- ✓ Professional heavy duty tool.

### TECHNICAL DATA

WORKING PRESSURE: 5-7 bar.  
AIR CONSUMPTION: 2,0 Lt.  
MAX POWER: 5.5 BAR-1.000 kg  
APPROXIMATE CYCLE TIME: 1 second  
NOISE LEVEL: less than 70 db (A)  
VIBRATION: < 2,7 m/s<sup>2</sup>

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

ARTICLE	REFERENCE
PT-SR	O2PTSRO10



#### SAFETY BUTTON

To control the trigger in case of non-use.

#### ERGONOMIC HANDLE

#### HIGH RESISTANCE RUBBER BASE



#### SECURITY VALVE

# OLEO-PNEUMATIC RIVETING TOOL FOR INSERT NUTS

High-performance professional tool capable of riveting the same nut in applications of different thicknesses without any additional setting.

The BNT-N Professional Riveter has the capacity to fit M-3 to M-10 insert nuts, M-4 to M-8 Rivet Studs and UNC insert nuts.

## BNT-N

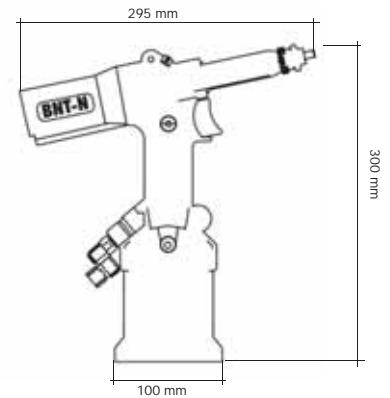
## PROFESSIONAL OLEOPNEUMATIC RIVETING TOOL for insert nuts

### CHARACTERISTICS

- Professional equipment, quality riveting.
- Ideal for applications with different thicknesses.
- Increase productivity.
- High impact resistance.
- Reduces operator fatigue due to its low weight.
- Ergonomic tool.
- High durability.

### TECHNICAL DATA

WEIGHT: 2100 grs.  
 STROKE: 7 mm.  
 TENSILE STRENGTH: 17.700 N  
 CAPACITY: M-3 to M-10, stud nuts from M-4 to M-8 and UNC insert nuts.



ARTICLE	REFERENCE
BNT-N (without Kit)	02BNTN010
Metrics KIT selectable by the client	(see tables)

INSERT NUT Ø mm	MATERIAL		
	Aluminium	Steel	Stainless Steel
M-3	✓	✓	✓
M-4	✓	✓	✓
M-5	✓	✓	✓
M-6	✓	✓	✓
M-8	✓	✓	✓
M-10	✓	✓	

RIVETING TOOLS

### BNT-N ACCESSORIES

The machine does not include any riveting kit. All kits for blind rivet nuts, rivet studs and UNC nuts are supplied as accessories.

DIMENSIONS	INSERT NUTS KIT
KIT M-3	05BNTN00157
KIT M-4	05BNTN00158
KIT M-5	05BNTN00159
KIT M-6	05BNTN00160
KIT M-8	05BNTN00161
KIT M-10	05BNTN00162

DIMENSIONS	STUD NUTS KIT
KIT M-4	05BNTN00163
KIT M-5	05BNTN00164
KIT M-6	05BNTN00165
KIT M-8	05BNTN00166 **

\*\* The M8 Stud nuts kit is supplied with a special mandrel holder.



Highly reliable, fast and powerful machine for demanding applications.

### CHARACTERISTICS

- Installation kit **quick and easy to use**.
- Ideal to be used on **assembly lines**.
- Fitting a **large number of nuts**.
- **Silent** tool.
- **High durability** and easy maintenance.
- Stroke and pressure **adjustment** of the machine
- Get a **quality result**.



### TECHNICAL DATA

GUN WEIGHT: 2,3 Kg.  
DIMENSIONS: 500x400x343 mm  
PULL FORCE: 80.000N  
STROKE: 15 mm.  
CAPACITY: M-8 to M20



METRICS	UNC/UFC
M-8	5/16-18 UNC
M-10	5/16-24 UNF
M-12	3/8-16 UNC
M-14	3/8-24 UNF
M-16	1/2-13 UNC
M-18	1/2-20 UNF
M-20	5/8-11
	3/4-10 UNC

ARTICLE	REFERENCE
HT-80N	02HT80N10

# BATTERY RIVETING TOOL FOR INSERT NUTS

It combines portability with the highest technical performance, suitable to the needs of the most demanding applications

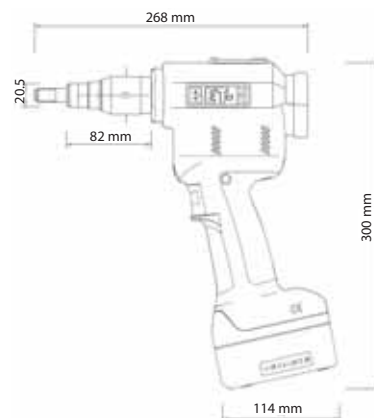
The BET-N battery tool has the ability to set insert nuts from M-3 to M-12, thanks to its design offers speed and high quality riveting.

## BET-N

Battery riveting tool  
for insert nuts

### TECHNICAL DATA

WEIGHT: 1.830 grs.  
LENGTH: 268 mm.  
STROKE: 8 mm.  
CAPACITY: Up to M-12  
BATTERY WEIGHT 4,0 Ah.: 0,58 kg.  
BATTERY POWER: 14.4 V.



Fine adjustment of the stroke



Power and stroke selector

Optimal performance for insert nuts thanks to the selection of power and stroke.



Automatic threaded and unscrewed of the nut



ARTICLE	REFERENCE
BET-N with 1 battery 4,0 Ah.	O2BETN010

INSERT NUT ∅ mm	MATERIAL			
	Aluminium	Steel	Stainless Steel	Brass
M-3	*	*	*	*
M-4	✓	✓	✓	✓
M-5	✓	✓	✓	✓
M-6	✓	✓	✓	✓
M-8	✓	✓	✓	✓
M-10	✓	✓	✓	✓
M-12	*	*		

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

### OPTIONALS BET-N

M3 and M12 nosepieces and mandrels are supplied as optional accessories.  
This riveter can set steel stud nuts and insert nuts in inch.  
It needs nosepieces and mandrils (female) that are supplied as accessories.

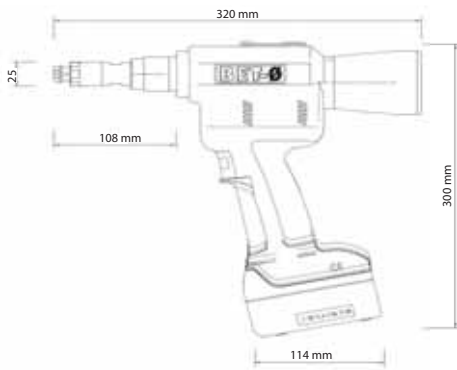




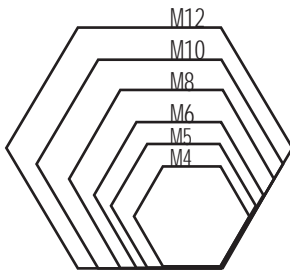
**TECHNICAL DATA**

WEIGHT: 1.830 grs.  
 LENGTH: 320 mm.  
 STROKE: 8 mm.  
 HEXAGONS: Up to M-12.  
 BATTERY WEIGHT: 4,0 Ah.: 0,58 kg.  
 BATTERY POWER: 14.4 V.

ARTICLE	REFERENCE
BET-0 with 1 battery 4,0 Ah.	O2BET0010



KIT for M-4	O5BET000M04
KIT for M-5	O5BET000M05
KIT for M-6	O5BET000M06
KIT for M-8	O5BET000M08
KIT for M-10	O5BET000M10
KIT for M-12	O5BET000M12



**COMFORT**

**TRANSFORMATION**



# MANUAL RIVETING TOOLS FOR BLIND RIVETS

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-68	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				✓			✓
6,0	S-Trebol							*
6,4	S-Trebol							*
5,2	S-Trébol						*	*
6,4	S-Trébol							*

\* It needs optional accessories.

## BM-45

## MANUAL RIVETING TOOL for rivets

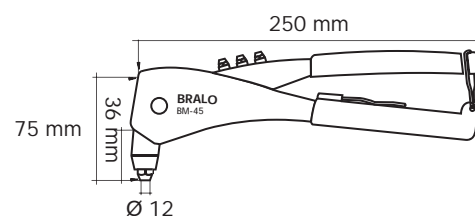


ARTICLE	REFERENCE
BM 45 BOX	02BM00450
BM 45 "Tool kit" PLASTIC BOX	02BM00453 BM 45 + rivets assortment

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

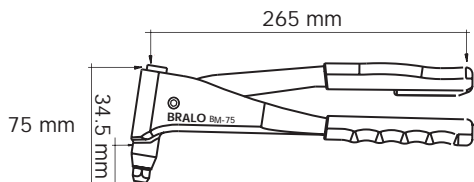
## TECHNICAL DATA

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



TECHNICAL DATA

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



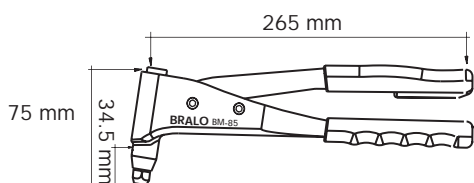
ARTICLE	REFERENCE
BM 75 BOX	O2BM00750
BM 75 PLASTIC BOX	O2BM0075PB BM 75 + rivets assortment

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



TECHNICAL DATA

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



ARTICLE	REFERENCE
BM 85 BOX	O2BM00850
BM 85 PLASTIC BOX	O2BM0085PB BM 85 + rivets assortment

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



SLIM DESIGN for access to difficult riveting places.

Main body cast in ALUMINIUM FOUNDRY.

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.



ARTICLE	REFERENCE
BM 68	O2BM00680

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

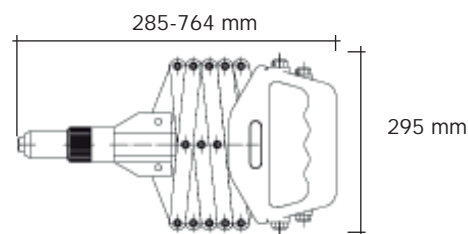
\* For prolonged usage, we recommend you use the BM-164.

FEATURES

- Extra long nose for accessing to 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: 1.645 grs.  
LENGTH: 285-764 mm.  
STROKE: 8 mm.  
CAPACITY: Up to 6,4 mm.



ARTICLE	REFERENCE
BM 92	O2BM00920

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

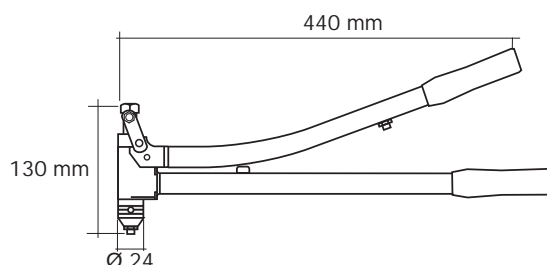
\* It needs a nosepiece that is supplied as accessory.

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.



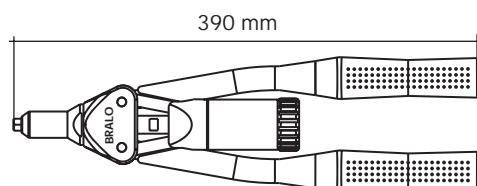


## FEATURES

- 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 5,2 S-Trebol.



ARTICLE	REFERENCE
BM160	02BM01600
BM 160 PLASTIC BOX	02BM01602

RIVET ∅ 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	*			

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

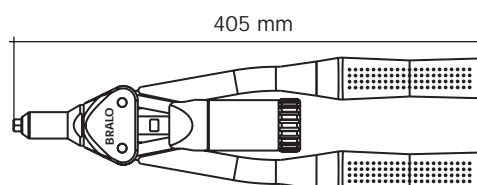


## FEATURES

- 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 6,4 S-trebol.



ARTICLE	REFERENCE
BM164	02BM01640
BM 164 PLASTIC BOX	02BM01642

RIVET ∅ mm	MATERIAL			
	Aluminium	Steel	Stainless Steel	Copper
4,8	✓	✓	✓	✓
5,0	✓	✓	✓	✓
6,0	✓	✓	✓	
6,4	✓	✓	✓	
5,2 S-Trebol	*			
6,4 S-Trebol	*			
6,0 Hardgrip	**			
6,4 Hardlock	**			

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

\*\* It needs jaws that are supplied as accessories.



# MANUAL RIVETING TOOLS FOR INSERT NUTS

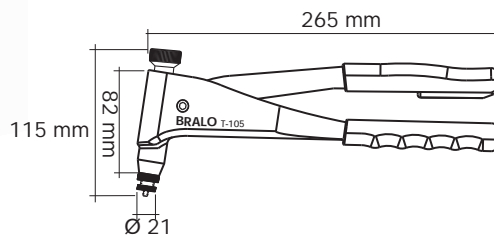
Placement tools with robust and ergonomic lever, suitable for works, maintenance works and repairs services.

## T-105



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

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



## 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

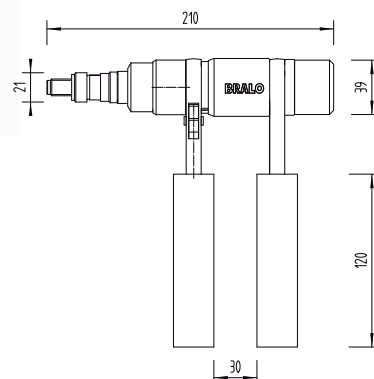
WEIGHT: 670 grs.  
LENGTH: 265 mm.  
WIDE: 115 mm.  
STROKE: 7,5 mm.  
CAPACITY: M3 to M6.

## TR-412



ARTICLE	REFERENCE
TR-412 PLASTIC BOX	02TR04120

INSERT NUT Ø mm	MATERIAL		
	Aluminium	Steel	Stainless Steel
M-4	*	*	*
M-5	✓	✓	✓
M-6	✓	✓	✓
M-8	✓	✓	✓
M-10	✓	✓	✓
M-12	✓	✓	



### FEATURES

- Usable for indoor and outdoor applications.
- Ideal to fix elements in tight spaces or with difficult access.
- It works with reduced consumption of force thanks to the special design of the lever.
- Easy and quick change of mandrels.
- Ergonomic handles.

### TECHNICAL DATA

WEIGHT: 1000 grs.  
LENGTH: 210 mm.  
STROKE: 8 mm.  
CAPACITY: M4 to M12, Stud nuts and UNC insert nuts.

### ACCESSORIES TR-412

The riveter is equipped with mandrels and nozzles for M-5 to M-12. The M-4 Rivet Nuts will be supplied as an accessory. The M-4, M-5 and M-6 Rivet Stud Kits are supplied as accessories.



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.

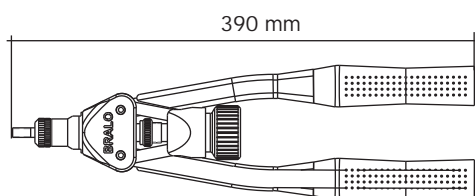
TECHNICAL DATA

WEIGHT: 1.470 grs.

LENGTH: 390 mm.

STROKE: 6 mm.

CAPACITY: M-3 to M-8 and Stud nuts.



ARTICLE	REFERENCE
TR 308 PLASTIC BOX	02TR03080

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

This riveter is capable to fix steel rivet studs. Special nosepieces are required and are supplied as accessories.



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.

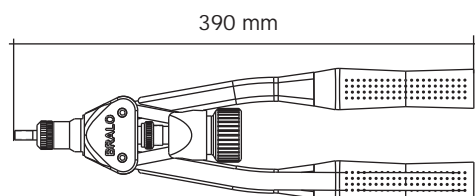
TECHNICAL DATA

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	Stainless Steel
M-6	✓	✓	✓
M-8	✓	✓	✓
M-10	✓	✓	✓
M-12	✓	✓	









# CATALOGUE 2022

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THE QUALITY IN RIVETS, INSERT NUTS AND RIVETING TOOLS