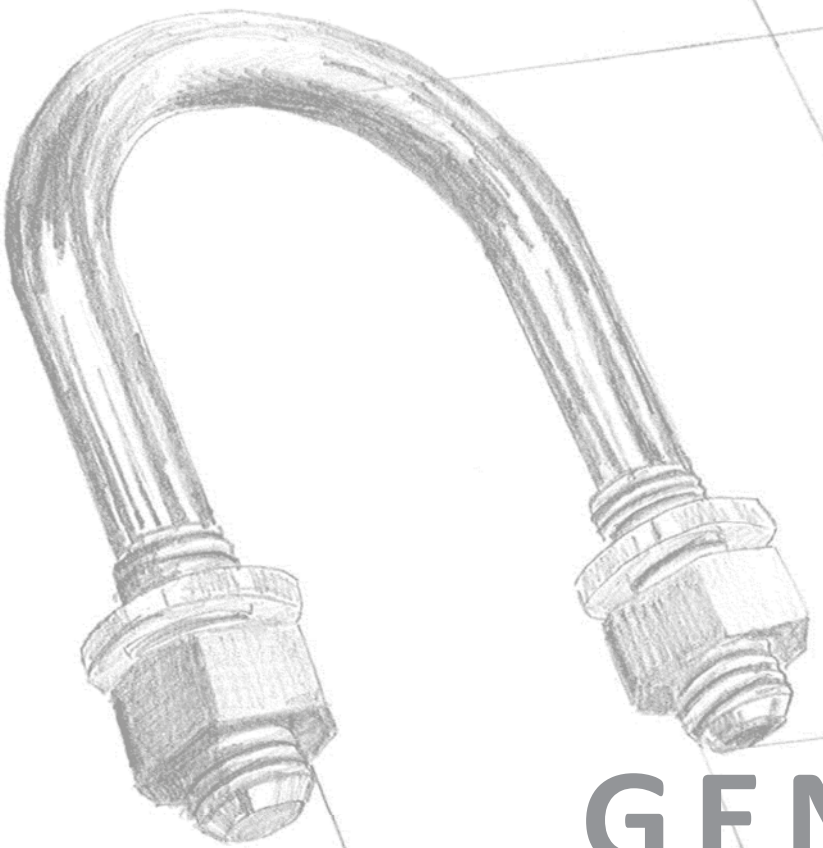


GENERAL CATALOGUE

Zarri

ANY SHAPE YOU DESIRE WITH THE BEST STEEL WIRE

ANY SHAPE YOU DESIRE WITH THE BEST STEEL WIRE

GENERAL CATALOGUE

EDITION 8.4
January 2021

CERTIFIED COMPANY
UNI EN ISO 9001:2015
Reg. No: 280-A


VERONA
TRENTO
PADOVA
VENEZIA
A22
Zarri
Uscita
FERRARA NORD
VIGARANO
MAINARDA
FERRARA
CARPI
Uscita
CARPI
SANT'AGOSTINO
A13
COMACCHIO
MILANO
TORINO
CENTO
PIEVE
di CENTO
SAN PIETRO
in CASALE
CREVALCORE
NONANTOLA
Uscita
ALTEDO
MODENA
Uscita
MODENA NORD
CASTELLO
d'ARGILE
SAN GIORGIO
di PIANO
ARGELATO
SAN GIOVANNI
IN PERSICETO
CALDERARA
di RENO
Uscita
BOLOGNA INTERPORTO
A1
Uscita
BORGO PANIGALE
BOLOGNA
A14
ANCONA
PESCARA
BARI
FIRENZE
ROMA
NAPOLI

CONTENTS

COMPANY

ZARRI S.r.l. is located 20 km north of Bologna (Italy). Founded in 1973 by Angelo and Franca Zarri, it specializes in the **MANUFACTURING of articles obtained from metallic wire in diameters that range from 3 to 28 mm, with larger diameters upon request,** in any quality of steel, for machinery and plant manufacturers.
ZARRI employs **40 people** on an area of 21,800 sqm, of which 5,500 are covered. ZARRI supplies more than 4,000 customers (25% are exports).

WE USE GREEN ENERGY
Photovoltaic panels for a total of 190 kWp are installed on the roof of the manufacturing facility. They provide more than 50% of the electricity used by the company.

TECHNOLOGY

Every year ZARRI processes 2,000 tons of steel, through cold forming technology and using different production lines, which allows it to quickly meet orders for small, medium and large quantities.

The main in-house processes are threading by rolling and bending, along with cutting, extrusion, coining, stamping, pressing, welding and boring.
By contracting out part of the processes to third-party qualified companies, the company is able to provide several **heat treatments** (stress relieving, hardening and induction tempering…) and **anti-corrosion coatings** (electrolytic zinc-plating, hot-dip galvanizing, zinc/aluminium, Geomet®, chrome-plating, burnishing, cataphoresis, painting, phosphate coating…).

PRODUCTS

The **main products**, both bent and threaded, are: **U-bolts**, studs, tie-rods, hooks, eye-bolts, pins and several special bent articles.

80% of production relates to customized **PRODUCTS made to the customer's specifications** and drawings, components for machines and plants, supplied following single or programmed orders.

The remaining 20% is composed of **ON STOCK ARTICLES** included in our catalogue such as round and square U-bolts, band clamps and clamps, **for which we ensure prompt delivery**, distributed to the market both directly and through a wide network of dealers (nuts and bolts shops and components wholesalers).

QUALITY

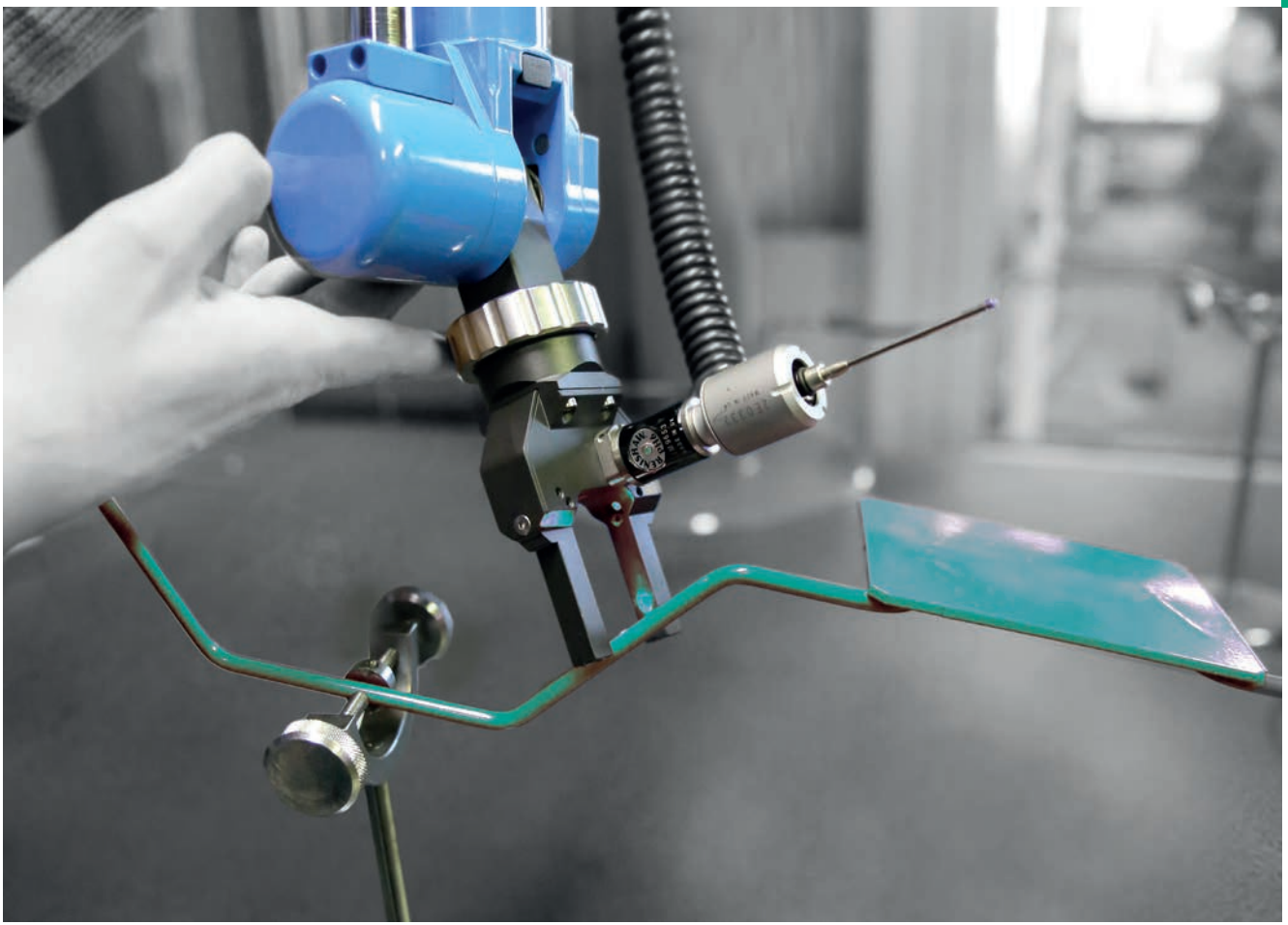
Since 1997, the company has been operating with a Certified Quality Management System. From 2009 **the company has been certified ISO 9001:2015** through Kiwa Cermet Italia S.p.A. of Bologna.
See page 32 for the quality certificate.

The photos contained in the catalogue are only for illustrative purposes. They represent an example of ZARRI's wide range of special products. The finishing, the coating and the aesthetic characteristics are to be defined in the moment of the offer and/or at a later stage when the technical drawing is created and approved by the customer.

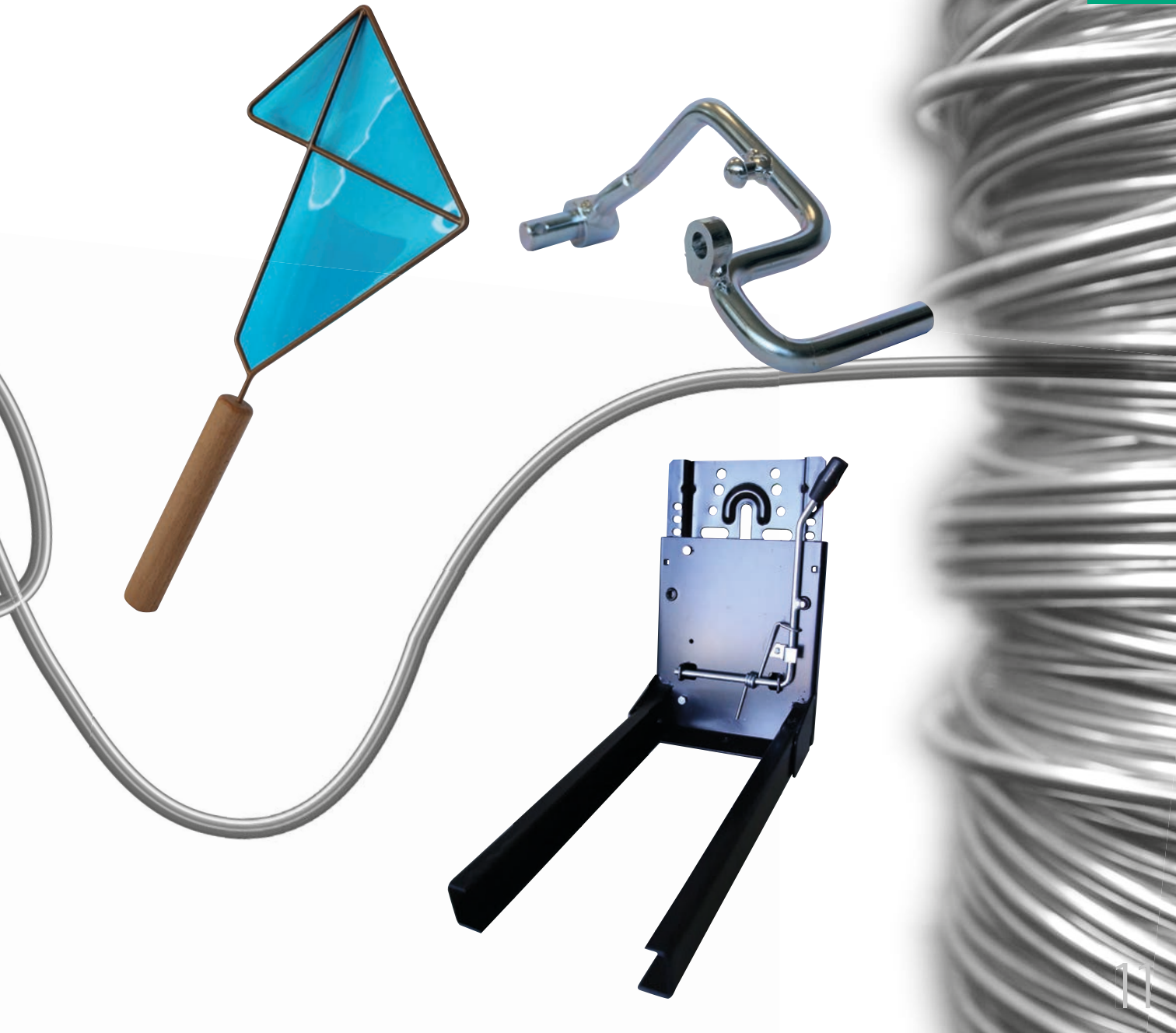
KEYENCE IM series

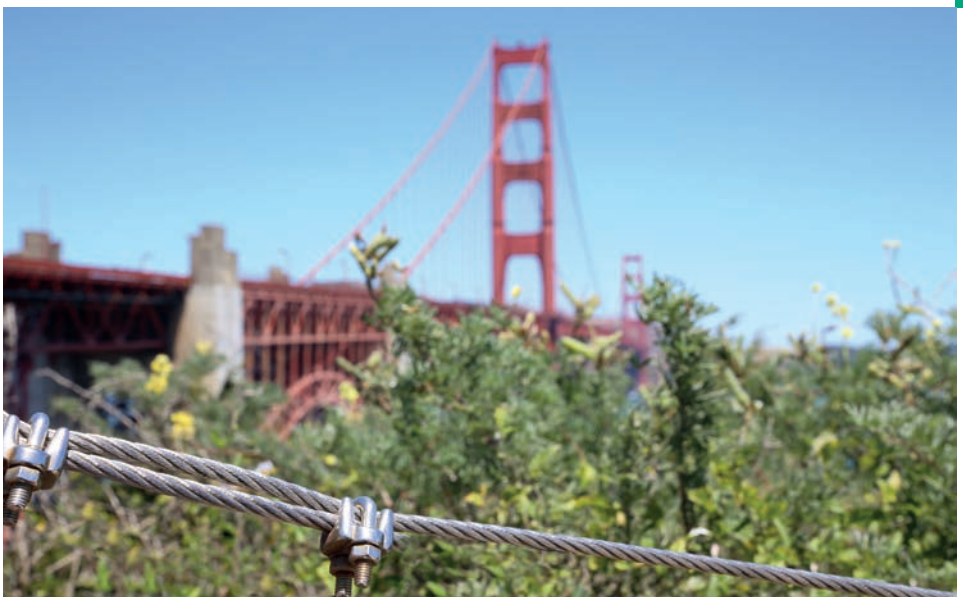
Instantaneous measuring system - Performs measurements based on the shape of the object memorized in the system. The orientation of the articles can be casual and it is able to measure up to 99 points simultaneously, drastically reducing the testing time.

Thanks to advanced technologies and high speed image processing, the measurements are homogeneous, independent from the operator running the system. The instrument is not limited to simply measuring parts, it also records and saves the results automatically, creating complete analysis and inspection reports.



3D DETECTOR Tomelleri Engineering
Instrument for measuring full wire shapes using a laser fork and dedicated software, with the possibility of using the data detected (converted into Cartesian coordinates) and comparing them to a master register in the memory or the coordinates provided by the customer. The data acquired can also be used for planning and assisting manufacturing (CAD/CAM).





EXAMPLES OF ARTICLES

WHAT OUR CUSTOMERS SAY ABOUT US...

*"Zarri distinguishes itself for **precision, punctuality, and courtesy**."*
C. from the C.M. company (Italy) - Zarri customer since 1979

*"The Zarri company **has been our trusted partner for many years** and has always stood out for its **quality**, **punctuality**, and **competitive prices**"*
C.B. from the M. company (Italy) - Zarri customer since 1977

*"**We are very satisfied** with the service level provided by your company"*
S.D. from the D. company (Belgium) Zarri customer since 2008

*"**Don't change anything. We are completely satisfied with Zarri** and hope to work together even more in the coming year"* O.S. from the A. company (Italy) - Zarri customer since 2012

*"Thank YOU and everyone at Zarri for the **fantastic partnership since we started working together**! Contacting you is always a nice experience. We are not very accustomed to this type of relationship with other foreign suppliers.*
*Aside the **fantastic quality and very competitive prices**, we are very satisfied with your **high quality standards and reliability**"*
"We received the u-bolts this morning. Thank you very much for the fast delivery! It is always nice doing business with you. Please thank everyone involved"
F.T. from the E.A. company (Netherlands) - Zarri customer since 2011

*"Thank you very much for the very interesting visit to your company. I was very impressed. **Working with polite and competent people like you is gratifying!**"*
A.B. from the A.B. company (Switzerland) - Zarri customer since 2012

*""I would like to inform you that **your shipments are perfect**. There was never any problem: **the perfect quantities, the beautiful, smooth, shiny finish**. The response of the assembly department is **absolutely useful**, the articles are **easy to use**. We use them in all our machines."*
K.T. of F. (Hungary) - Zarri's customer since 2015

PARTNERS

Thanks to its level of specialization and expertise, ZARRI is top-of-the-range in its market. It also provides its customers with a consultancy service and its know-how so as to improve product design and optimize the production process, offering competitiveness and the highest quality throughout a wide range of items, especially those made from metallic wire.

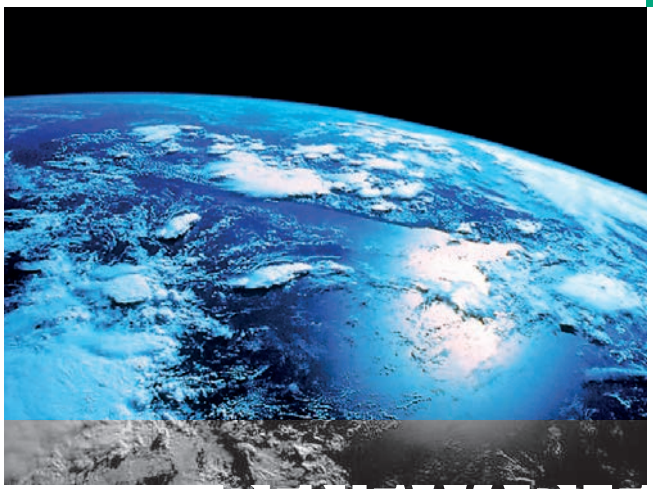
THE SECTORS served by the company are varied: tractors and farm machinery, motorcycles and motors, electrical, petrochemical, thermal hydraulic plants and steelworks, cranes, construction, greenhouses, vineyards, eaves, toys, boats, compressors, pumps, furniture, heaters, etc.

AGRICULTURE

URBAN FURNISHING

FURNISHINGS

AUTOMOTIVE



RENEWABLE ENERGIES

CONSTRUCTION

NAUTICAL


COLD WORKING
TECHNOLOGY
THE BEST MATERIALS
Possibility of
choosing between
REDUCED OR
FULL SHANK
CHAMFERING

GENERAL FEATURES OF ZARRI ARTICLES

COLD WORKING

The term “cold forming” or “cold working” refers to a type of processing performed at room temperature which exploits a property of the steel called “plasticity”, namely the property of undergoing permanent deformation without breaking.
By exerting a high enough force on the steel, it is possible to obtain a permanent deformation: the technology of cold working exploits precisely this principle.
Generally opposed to “hot forming”, in which the steel is initially heated up to very high temperatures, cold forming’s distinctive feature is that it makes production simpler and more economical.

WIRE DIAMETER

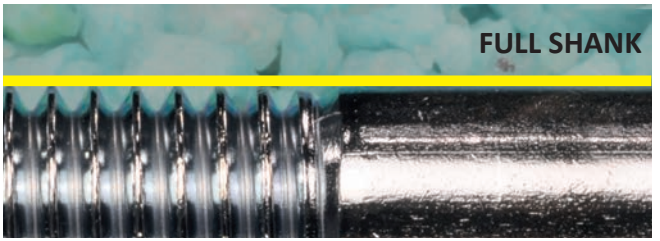
We process from very thin diameters (Ø3) to thicker ones to obtain threads that range from M4 and higher.
The material is processed from coils (from Ø3 to Ø12) and bars (from Ø10 and higher).

Our production technology allows us to obtain any kind of thread according to the customer's needs, in particular:

- left and right thread;
- ISO metric thread (thick or thin pitch);
- ISO trapezium metric thread;
- UTS (American Standard) thread in inches;
- Whitworth thread.

Threads are always obtained through rolling, a process that makes it possible to obtain the thread by means of plastic deformation. This type of processing has numerous advantages compared to threads obtained by material removal, in particular:

- the fibers of the material are not cut, but only deformed, thus improving its mechanical strength;
- the strong surface hardening due to deformation makes the crests of the threads harder and more wear resistant;
- rolling is a much faster and cheaper process.

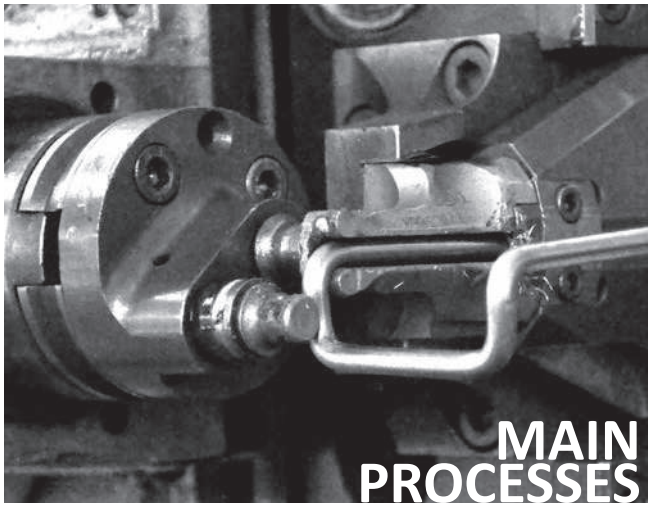


Our threaded articles can be manufactured in two main versions, which are described below.

1. Threaded articles with thread performed on REDUCED SHANK. The thread is obtained by rolling on a diameter equal to the average thread diameter. The thread thus obtained is of the desired size, while the smooth part adjacent to it is of a slightly smaller diameter, without reducing the overall resistance of the piece.
2. Threaded articles with thread performed on NOMINAL (or reinforced) DIAMETER.
   Threading is performed by rolling after reducing the diameter of the workpiece from the initial diameter. In this case, the diameter of the adjacent smooth part is equal to (or greater than) the size of the thread.

The hallmark of all our articles is the great attention we pay to all details, which ensures easy and fast application and use. Chamfering is a peculiarity of all our products from medium to big diameters.

Our technology allows us to complete all threaded items with a chamfer to facilitate the fastening.
Preferably, threading includes the chamfer for diameters from M10 and higher.

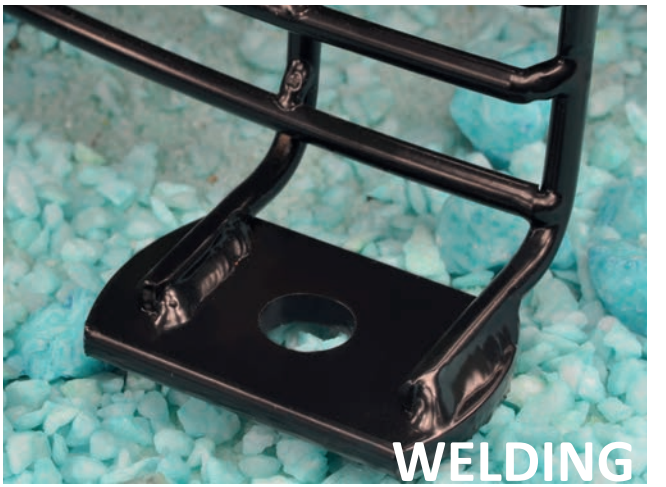


Our main manufacturing processes are:

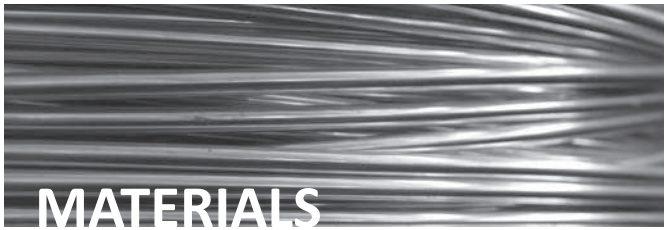
**BENDING,
THREADING BY ROLLING,
CUTTING
and CHAMFERING.**

Additional processes are:

**WELDING,
DRILLING,
MILLING,
EXTRUSION,
COINING,
STAMPING,
PRESSING,
BORING,
HOT BENDING,
STAKING.**



Articles can be marked with letters and numbers upon request. Zarri has also implemented a procedure to ensure traceability of its products through marking. Each one can be unequivocally traced to a definite number of homogeneous pieces per article, material, and production cycle.



MATERIALS

	EN		AISI	Corresponding resistance grade	
	Numerical designation Werkstoff no. (Wr n.)	Symbolic designation		ISO	
				898-1	3506-1
Non-alloy structural steel for general purposes	1.0122	**S235JRC+C (Fe 360)**	AISI 1015	3.6	
	1.0128	**S275JRC+C (Fe 430)**	AISI 1020	4.8	
	1.0579	**S355J2G3C+C (Fe 510)**	AISI 1024	5.8	
Steel suitable for high and/or low temperatures	1.5523	**19MnB4+C (C23B)**	-	6.8	
	1.1191	**C45E+C**	-	6.8	
	1.5511	**35B2+C**	-	8.8	
Tempered and high-strength steel	1.1191	**C45E+QT+C**	AISI 1042	8.8	
	1.7227	**42CrMoS4+QT+C**	AISI 4140	10.9	
Steel for mechanical processing at high speed	1.0736	**11SMn37+C (AVZ)**	AISI 1215	4.8	
	1.0737	**11SMnPb37+C (AVP)**	AISI 12L14		
Stainless Steel	1.4306	**X2CrNi19-11+C**	AISI 304L		A2-70 A2-80
	1.4404	**X2CrNiMo17-12-2+C**	AISI 316L		A4-70 A4-80
	1.4016	**X6Cr17+C**	AISI 430		F1-45

+C = drawn

+QT = tempered

FINISHES

Here are the main finishes used. Please feel free to inquire about the thickness of the zinc coating or surface treatment you need during the offer process.

Protective coating	Resistance to corrosion. approximate minimum* (salt spray tests) [hours]	Reference standards
WHITE ZINC PLATING CRIII Zinc coating with clear brilliant passivation, thickness 8 microns. RoHS compliant- It does not contain Chromium VI.	**72**	**ISO 2081 Fe/Zn8/A**
WHITE ZINC PLATING IRIDESCENT CRIII Zinc coating with slightly iridescent white passivation, thickness 8 microns. RoHS compliant - It does not contain Chromium VI.	**72**	**ISO 2081 Fe/Zn8/B**
YELLOW ZINC PLATING IRIDESCENT CRIII Zinc coating with iridescent yellow passivation, thickness 8 microns. RoHS compliant- It does not contain Chromium VI.	**120**	**ISO 2081 Fe/Zn8/C**
BLACK ZINC-PLATING CRIII Coating with black passivation, thickness 8 microns. RoHS compliant- It does not contain Chromium VI.	**72**	**ISO 2081 Fe/Zn8/F**
WHITE CHROMITING® Coating with clear brilliant passivation, thickness 7 microns. Does not contain Chromium VI.	**96**	**FIAT 9.57405 Fe/Zn 7 II**
IRIDESCENT CHROMITING® Zinc coating with iridescent passivation, thickness 7 microns. Does not contain Chromium VI.	**168**	**FIAT 9.57405 Fe/Zn 7 IV**
IRIDESCENT SEALED CHROMITING® Zinc coating with iridescent passivation, with a final sealing treatment. Does not contain Chromium VI.	**360**	**FIAT 9.57405 Fe/Zn 7 IV S**

* Minimum indicative resistance of the protection, expressed in hours referring to the standard coating thickness. It indicates the time before the red corrosion products appear on the base material in a neutral salt spray test (NSS).

Protective coating	Resistance to minimum indicative corrosion (salt spray tests) [hours]	Reference standards:
NEUTRAL ZINC NICKEL Zinc and Nickel coating free of Chromium VI.	**720**	**ISO 19598 - Fe//ZnNi8// An//T0**
IRIDESCENT ZINC NICKEL Zinc and Nickel coating free of Chromium VI, slightly iridescent.	**720**	**ISO 19598 - Fe//ZnNi8// Cn//T0**
BLACK ZINC NICKEL Zinc and Nickel coating free of Chromium VI, black.	**720**	**ISO 19598 - Fe//ZnNi8// Fn//T0**
HOT DIP GALVANIZING Zinc-coating from hot-dipping and centrifuging (ordinary class). Does not contain Chromium VI. Threads can be produced in ISO-fitting tolerance or oversized after surface treatment.	❶	**ISO 1461 Fe/Zn C**
CRAPAL® OPTIMUM Zinc, Aluminium, and Magnesium coating.	**2500** ❷	
GEOMET® A Lamellar zinc Metallic non-electrolytic coating, made of zinc and aluminum layers. Color matte grey.		**ISO 10683**
GEOMET® 321A	**600**	**flZn/nc/ Tn/600h**
GEOMET® 321A + plus ❸	**720**	**flZn/nc/ TL/720h**
GEOMET® 321B	**1000**	**flZn/nc/ Tn/1000h**
GEOMET® 321B + plus ❸	**1000**	**flZn/nc/ TL/1000h**
GEOMET® 500A ❸	**720**	**flZnL/nc/ Tn/720h**
GEOMET® 500B ❸	**1000**	**flZnL/nc/ Tn/1000h**

Protective coating	Resistance to minimum indicative corrosion (salt spray tests) [hours]	Reference standards:
CHROME-PLATING Chromium coating, 10 microns thick, which gives the surface a matte clear or brilliant glossy appearance and protection against corrosion. Typically, a Chromium coating (0.25-0.40 micron) is placed over an electrolytic nickel-plating coating.	**12**	**ISO 4042 Fe/Ni 10b Cr**
CATAPHORESIS Electrodeposition paint (usually black) which ensures homogeneous thickness.	**Acrylic 1000**	
	Powder coating 500	
PHOSPHATE COATING Temporary protective, anticorrosion treatment with final oiling containing zinc phosphate or manganese.	**24**	**ISO 9717 Fe/Znph10 ISO 9717 Fe/Mnph10**
PAINTING Powder or liquid coating.	**312**	

Note ❶ The hot dip galvanizing treatment cannot be measured with salt spray tests. For more information, contact Zarri Technical Office.

Note ❷ Resistance declared by Arcelor Mittal, salt spray tests carried out on steel without further processing. Contact the ZARRI technical office for further information on customized articles.

Note ❸ Lubricated coating with controlled friction coefficient.

Table A. SURFACE PRE-TREATMENTS

Surface treatment	Description
TUMBLING	Treatment for burr removal (vibratory finishing).
WASHING	Degreasing wash (preferably used for stainless steel).
PICKLING	Treatment used to eliminate the surface oxide layer or other contaminants from metallic materials, to make the surface porous and ready for further treatments (preferably used for stainless steel).
SHOT PEENING	Propelling small hard spheres on the surface of the piece. The treatment removes surface impurities and burrs and slightly hardens the workpiece surface.
SANDBLASTING	Blowing sand through a spray gun on the workpiece surface. The treatment removes surface impurities or coatings.

HEAT TREATMENTS

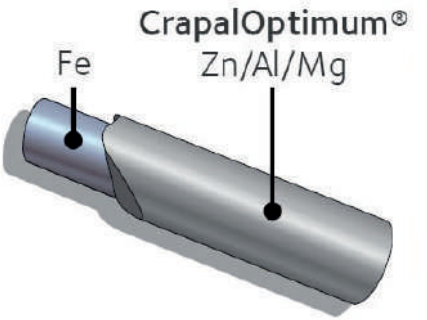
HEAT TREATMENTS	EN 10027-1
NORMALIZATION	+N
STRESS RELIEVING	-
ANNEALING	-
HARDENING	+QT
TEMPERING	+Q
DRAWING TEMPERING	+T

Table B. SURFACE POST-TREATMENTS

Surface treatment	Description
ADHESIVE	Deposit of plastic polymer resin or polyamides. Depending on the resin used, the function may be more sealant, fluids-proof, braking to prevent loosening of threaded joints, or blocking to ensure the hold of the threaded connection even in the presence of stresses with dynamic loads.
BRIGHTENING	Aesthetic treatment that gives a bright appearance and levels out roughness. ELECTROPOLISHING: Wash based on a controlled corrosion of the surface using an electrolyte (polishing bath) and a flow of current. It gives the piece an extremely glossy appearance. Preferably used for stainless steel articles, even if they have slight surface defects. BRIGHTENING: Mechanical wash performed with steel microspheres and special additives that give the piece a bright appearance. Preferably used for stainless steel articles.
BURNISHING	Steel Colouring (black) through the immersion of the parts to be treated in special chemical solutions.
DEHYDROGENATION	Thermal treatment for the removal of the surface concentration of hydrogen that is formed on alloy materials during zinc treatment. It must be performed on articles in class 10.9 and 12.9 ISO 898-1, zinc coated.
OILING	Vegetable oil-based surface protection to prevent oxidation.
PASSIVATION	Treatment carried out to quickly restore, in a controlled manner, the natural passive layer of stainless steel, removing any traces of surface contamination.
SEALING	Coating consisting of a thin synthetic sealant layer that improves the performance of the coatings. In case of special needs it is necessary to specify the type of desired sealant.

MATERIALS COATED IN ZINC ALUMINIUM

The case of Crapal® Optimum
Zinc - Aluminium - Magnesium



A very interesting class of material is the zinc-aluminium pretreated material. This class of materials is extremely resistant to weather and chemicals, seen as an excellent substitute by many of our customers for the hot dip galvanizing treated materials and often also for stainless steel products. The excellent resistance is combined with a particularly low competitive price. The brands acquired from Zarri are varied and have different features, depending upon the customer's needs. For example, let's take a look at the top of the line: CRAPAL® OPTIMUM.

Coating: Zinc + Aluminium + Magnesium
Excellent replacement for hot zinc dip galvanizing depending on the product: it avoids problems of thread obstruction and does not require larger nuts
Can be used for all special articles from M6 to M12
ZARRI standard products are always available

Product Data Sheet

CRAPAL® OPTIMUM is steel wire with a coating **made of zinc, aluminium, and magnesium**.

The metal wire used is a **patented product**, CRAPAL® OPTIMUM by **ARCELOR MITTAL**.

Zarri gets supplies from the best manufacturers of this type of coated material, using brands such as Bezinal® by Bekaert and Galfalid® from Trafilerie Bergamasche Mazzoleni.

ZINC-ALUMINIUM-MAGNESIUM wire can be **easily processed**, **can be threaded by rolling and welded** (without material addition); **in the areas where the steel is bare, after brief oxidation, the aluminium expands and through a chemical and physical process it forms a grey, very resistant protective surface** that stops the anodic reaction of zinc, thus allowing greater durability of the zinc-aluminium coating.

Laboratory tests and salt spray tests highlighted that **ZINC-ALUMINIUM-MAGNESIUM has a resistance** OF 2500 hours in salty mist. Depending on the articles that ZARRI produces for its customers the final product will result having different resistance to salty environment. Processing activities such as threading, rolling, punching, etc will change the salty test resistance; ZARRI suggests to test the final products for specific results.

Its features make CRAPAL® OPTIMUM an **extremely interesting product for replacing traditional hot dip galvanizing treatments for rods that range from 4 to 10.7 mm in diameter**, since it can be directly threaded (rolled). The result is a perfect thread that avoids the problems caused by the excess of zinc and the subsequent need to use expensive larger nuts.

ZINC-ALUMINIUM-MAGNESIUM is also used by several customers **as an alternative to stainless steel, due to its significantly lower cost** and extremely high **resistance to corrosion**.

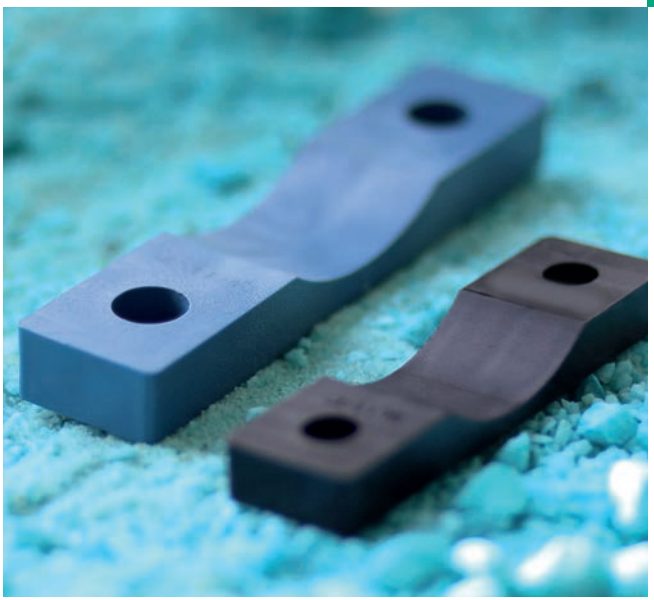
The use of steel products with ZINC-ALUMINIUM-MAGNESIUM becomes extremely interesting for articles that are exposed to weather and/or chemical agents such as: **electrical, plumbing, chemical, and agricultural (vineyards, orchards) systems.**

ZARRI suggests to study the perfect solution for the specific customer's needs, in order to determin whether the zinc-aluminum-magnesium coating is suitable for their specific needs.

Along with our articles we can also provide standardized or special hardware; raw or with electrolytic zinc treatment, hot dip galvanizing treatment, geomet, dacromet, or stainless steel.
The u-bolts for prompt delivery come with UNI 5587, UNI 5588 (DIN 934), and UNI 5589 (DIN 936) nuts and UNI 6592 (DIN 125) and 6593 washers.
It is also possible, and often advised, to combine our special nuts such as flange nuts (replacing the nut + washer for quick application) and self-locking nuts.

Along with our products obtained from metal rods, we can provide plates (see types 701 and 713, pages 48 and 50, 96-99) and articles in various materials such as plates made of Teflon and other plastic materials (see pages 48, 96-99), heat-retractable sheathing, rubber hoses, protective nylon mesh to cover the threads, etc.

In order to increase and improve some of the technical features of our articles, we can also provide additional treatments such as Precote®, a sealant for threading and threadlockers, used to obtain better locking and sealing performance under heavy pressure and vibrations, in extreme chemical environments, and in high and low temperatures.



AUTOMATIC WAREHOUSE

ZARRI has a modern, large, **automatic warehouse** with 700 pallet spots, to ensure **just in time** delivery to its customers.

The articles are packed in sturdy, new, high quality corrugated cardboard boxes**, without our logo, in an adequate quantity to fill them in order to prevent excessive movement of the pieces during transportation.**
The boxes are always closed with tape and/or straps. If stacked on pallets, they may be protected with a transparent film.
Different and custom packaging is possible upon request.

Labelling and identification
Every package has a label that indicates:
- Zarri code assigned to the article (typed out + barcode)
- a summary description of the article
- the number of pieces in the package
- the production batch number (typed out + barcode)

We can customize the labels as needed
Upon request, the following can be inserted:
- image/rendering of the article
- article code assigned by the customer
- other identification data requested

CERTIFICATE

kiwa

Reg. Number	280 - A	Valid From	2010-10-25
First issue date	1997-05-30	Last change date	2018-10-25
Valid Until	2021-11-27	IAF Sector	17

Quality Management System Certificate

ISO 9001:2015

We certify that the Quality Management System of the Organization:

ZARRI S.r.l.

Is in compliance with the standard UNI EN ISO 9001:2015 for the following products/services:

Design and manufacturing of screws and fasteners.
Manufacturing of screws and fasteners on customer's specification.

Chief Operating Officer
Giampiero Belcredi

The maintaining of the certification is subject to annual surveillance and dependent on the observance of Kiwa Cermet Italia contractual requirements.
This certificate is composed of 1 page.

Kiwa Cermet Italia S.p.A.
Società con socio unico, soggetta all'attività di direzione e coordinamento di Kiwa Italia Holding Srl
Via Cadriano, 23
40057 Granarolo dell'Emilia (BO)
Tel +39.051.459.3.111
Fax +39.051.763.382
E-mail: info@kiwacermet.it
www.kiwacermet.it

CERMET

ZARRI S.r.l.
Registered Headquarters
- Via Provinciale Nord, 43 40050 Castello d'Argile (BO) Italia

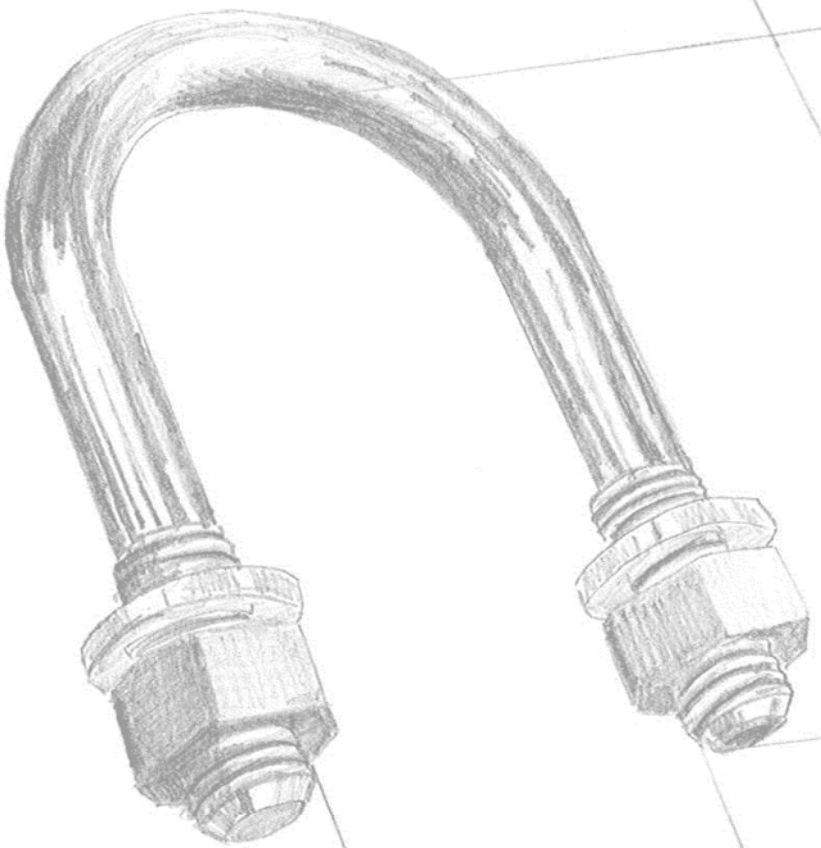
Certified Sites
- Via Provinciale Nord, 43 40050 Castello d'Argile (BO) Italia

IAF

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

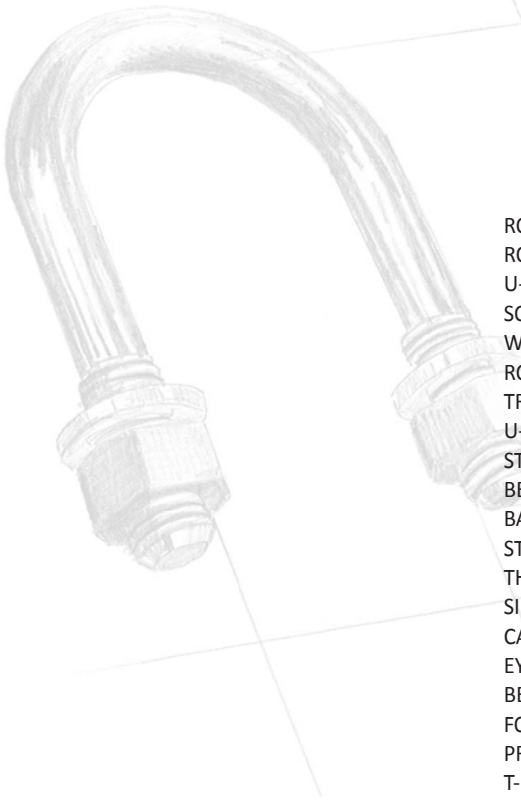
SGQ N° 007A
SGA N° 010D
PRD N° 069B
FSM N° 004I
PRS N° 089C

Ask for the updated certificate by writing to commerciale@zarri.it. Due to temporal reasons, the document herein may not be updated; the same has been renewed to ZARRI every 3 years continuously since 1997.

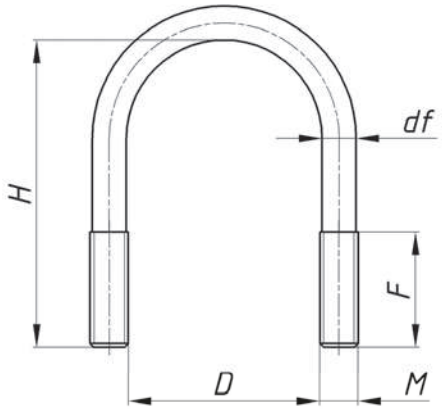


SPECIAL ARTICLES

CONTENTS



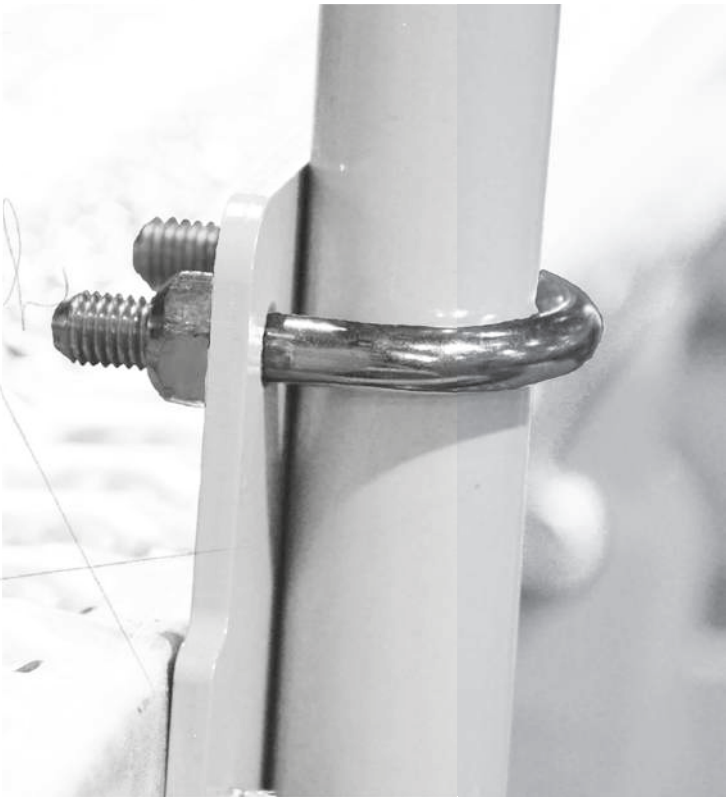
ROUND U-BOLT FOR PIPE-CLAMPING



TYPE 101

Special U-shaped threaded screw. Suitable for clamping circular section elements of various sizes, from small diameter tubes to big pipes.

This article, like all the others made according to the customer's drawing, can be tailored and totally customized in accordance with your own design, material, resistance and corrosion resistance needs (heat and surface treatment).



WE TAILOR THIS ARTICLE TO YOUR SIZES

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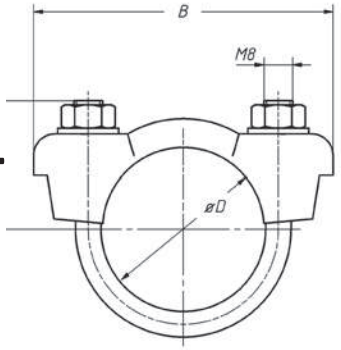
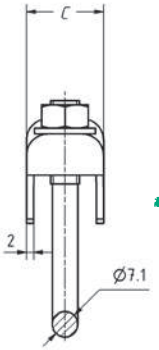
see page 90

ROUND U-BOLT WITH SHAPED PLATE



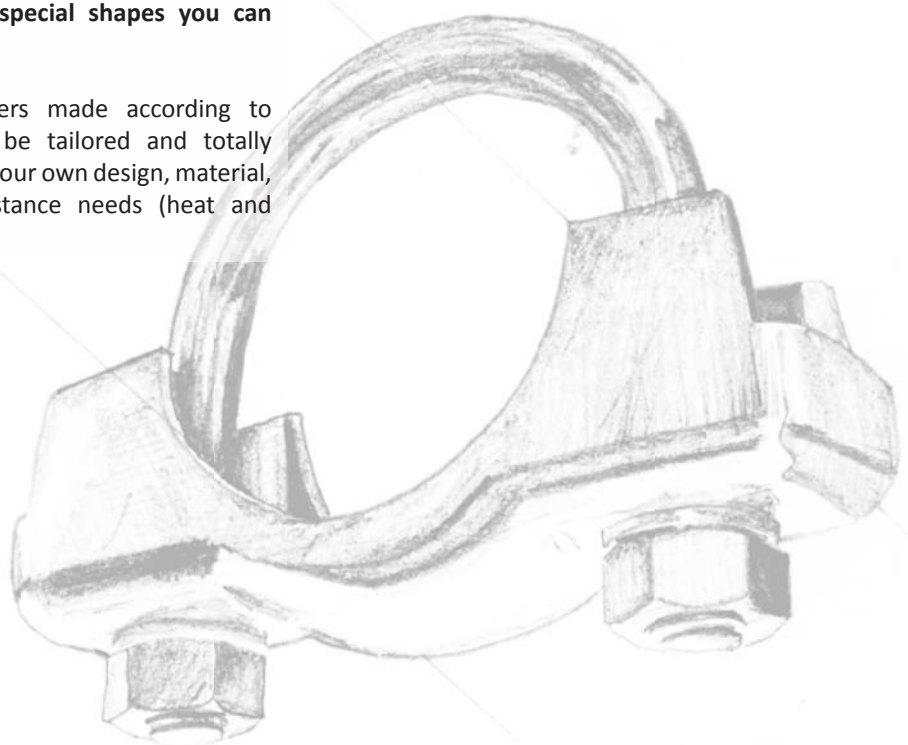


TYPE 680

U-bolts normally used in the automotive industry for fastening the exhausting pipes. We can provide them for prompt delivery in all of the most common measures. For specific size requests or special shapes you can submit your design to us.

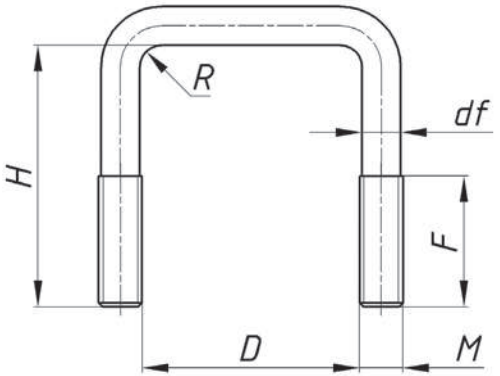
This article, like all the others made according to the customer's drawing, can be tailored and totally customized in accordance with your own design, material, resistance and corrosion resistance needs (heat and surface treatment).

WE TAILOR THIS ARTICLE TO YOUR SIZES



FOR SIZES WITH PROMPT DELIVERY
see page 100

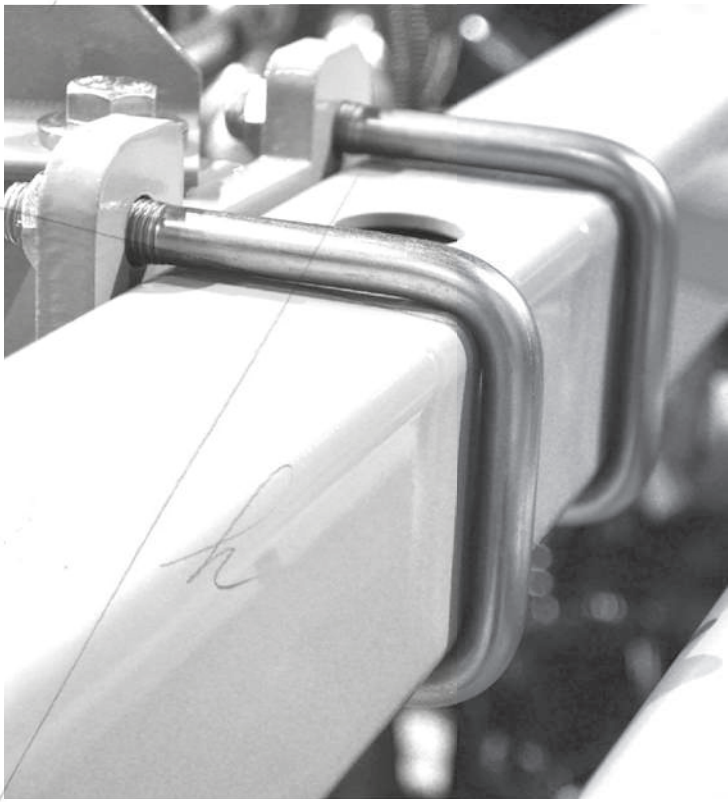
U-BOLT FOR PIPE CLAMPING WITH SQUARE SECTION



TYPE 102

Special U-shaped threaded screw. Suitable for clamping square or rectangular section elements, pipes and C-rails.

This article, like all the others made according to the customer's drawing, can be tailored and totally customized in accordance with your own design, material, resistance and corrosion resistance needs (heat and surface treatment).



WE TAILOR THIS ARTICLE TO YOUR SIZES

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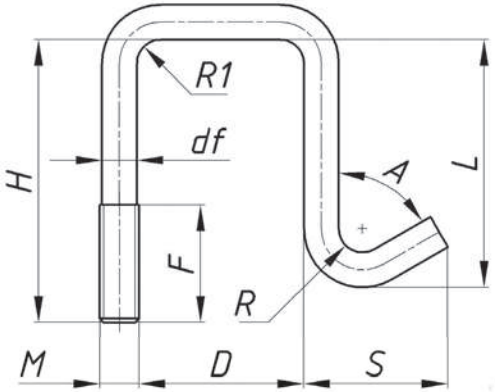
SQUARE U-BOLT FOR PIPE-CLAMPING WITH BENT LEG



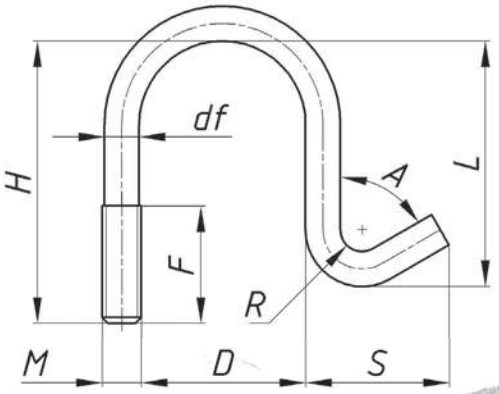
TYPE 142

Special U-shaped threaded hook, with bent leg. Chiefly used for clamping springs and cogs on square section pipes, especially in farm machinery like graders and hay-making machines.

This article, like all the others made according to the customer's drawing, can be tailored and totally customized in accordance with your own design, material, resistance and corrosion resistance needs (heat and surface treatment).

WE TAILOR THIS ARTICLE TO YOUR SIZES

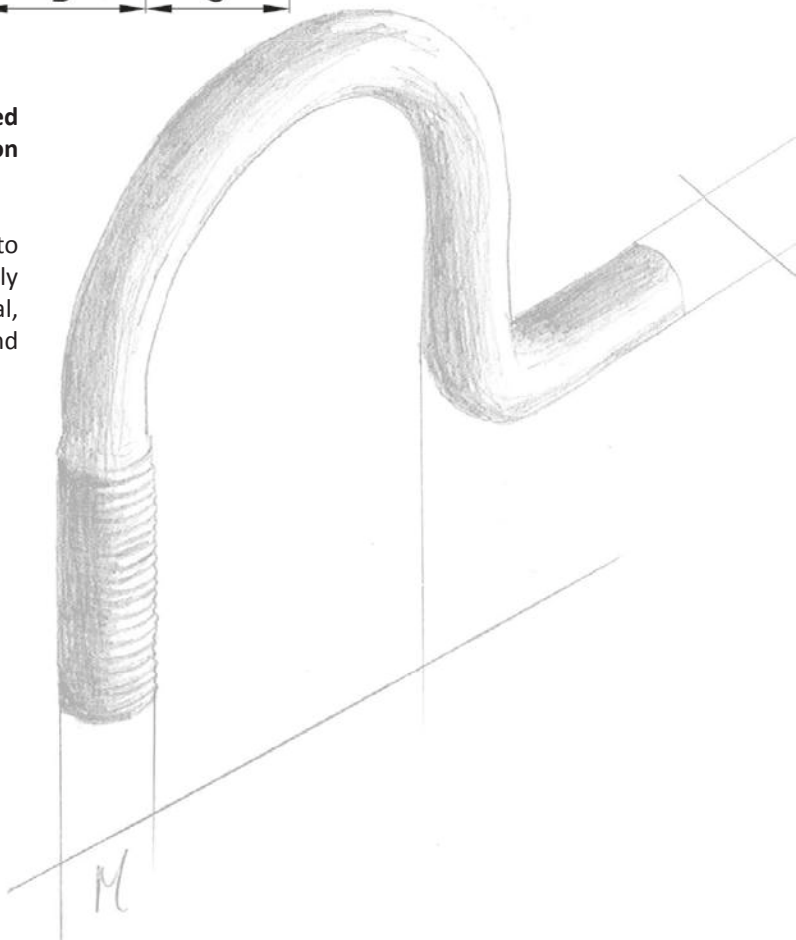
ROUND U-BOLT FOR PIPE CLAMPING WITH BENT LEG



TYPE 141

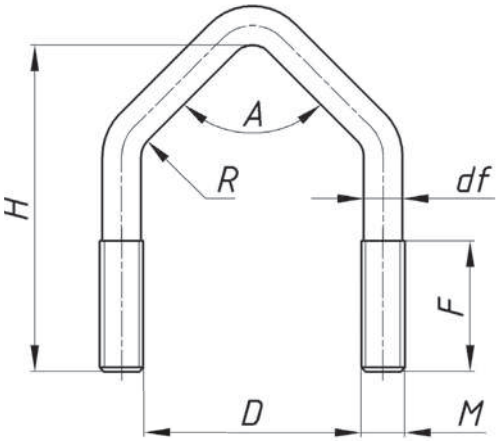
Special U-shaped threaded hook, with bent leg. Used for fast clamping of pipes and other circular section elements.

This article, like all the others made according to the customer's drawing, can be tailored and totally customized in accordance with your own design, material, resistance and corrosion resistance needs (heat and surface treatment).



WE TAILOR THIS ARTICLE TO YOUR SIZES

TRIANGULAR U-BOLT FOR PIPE CLAMPING WITH SQUARE SECTION V-BOLT



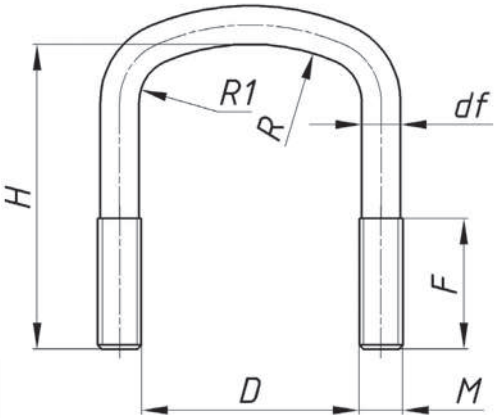
TYPE 103

Special triangular seat threaded screw. Suitable for clamping square section elements, square or rectangular pipes and C-rails. Highly used in the agricultural sector and to fasten antennas.

This article, like all the others made according to the customer's drawing, can be tailored and totally customized in accordance with your own design, material, resistance and corrosion resistance needs (heat and surface treatment).

WE TAILOR THIS ARTICLE TO YOUR SIZES

U-BOLT WITH ARC SHAPE



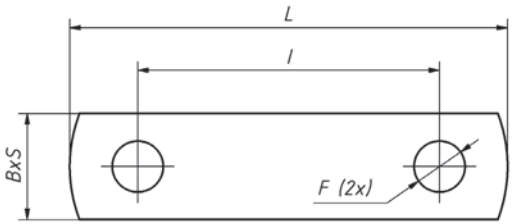
TYPE 107

Special U-shaped threaded screw, with arc seat. Used for clamping mounts for leaf springs, rails on railroad ties and whenever a high level of resistance is required.

This article, like all the others made according to the customer's drawing, can be tailored and totally customized in accordance with your own design, material, resistance and corrosion resistance needs (heat and surface treatment).

WE TAILOR THIS ARTICLE TO YOUR SIZES

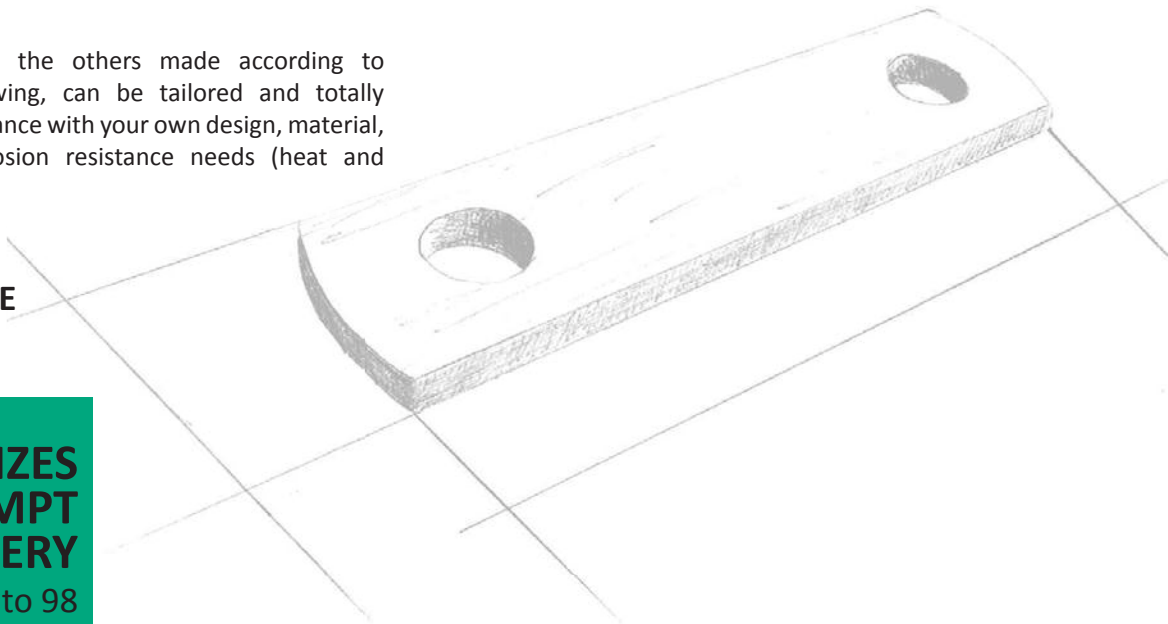
STRAIGHT PLATE



TYPE 701
TYPE 063

Straight stamped plate. It can be made in various versions by shape or material: steel, Teflon, rubber, plastic, and other polymers. An essential element for various mounting articles, with the possibility of added holes and slots.

This article, like all the others made according to the customer's drawing, can be tailored and totally customized in accordance with your own design, material, resistance and corrosion resistance needs (heat and surface treatment).



WE TAILOR THIS ARTICLE TO YOUR SIZES

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ARTICLES ON DRAWING - TYPE 701, 063

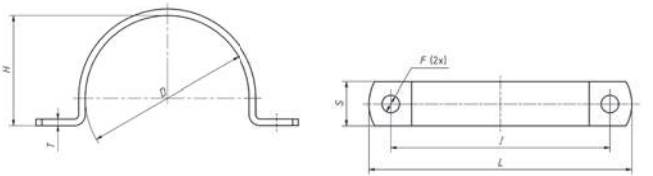
BENT PLATE

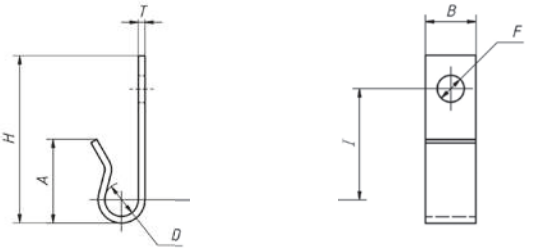
TYPE 713

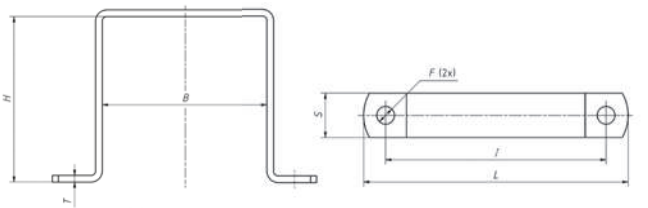
Bent stamped plate. Holes or slots can be made to fit various clamping items.

The photos and drawings contained in these pages are just some examples of bent plates. Starting from steel plates it is possible to produce an infinite range of different shapes, sizes, bends and details, to personalize the products depending on the customer's needs.

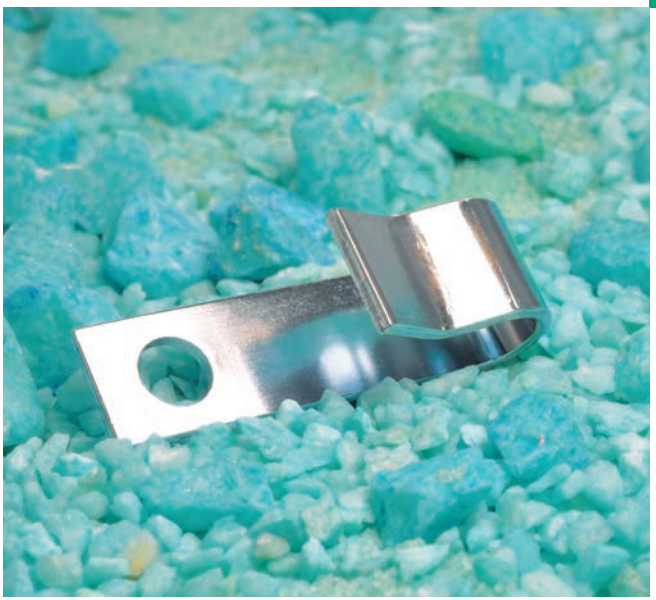
This article, like all the others made according to the customer's drawing, can be tailored and totally customized in accordance with your own design, material, resistance and corrosion resistance needs (heat and surface treatment).



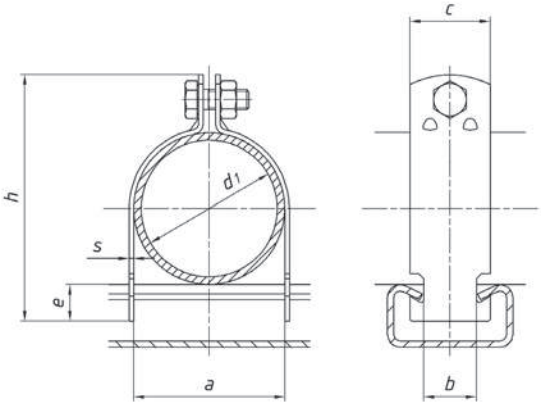




WE TAILOR THIS ARTICLE TO YOUR SIZES



BAND CLAMPS FOR PIPE CLAMPING TUBEFIX



TYPE 711

Pair of band clamps for pipe clamping on C-rails.

This article, like all the others made according to the customer's drawing, can be tailored and totally customized in accordance with your own design, material, resistance and corrosion resistance needs (heat and surface treatment).

WE TAILOR THIS ARTICLE TO YOUR SIZES

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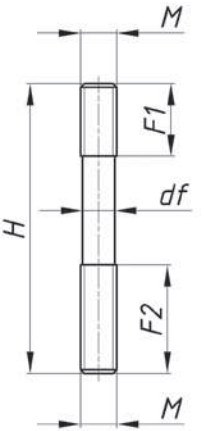
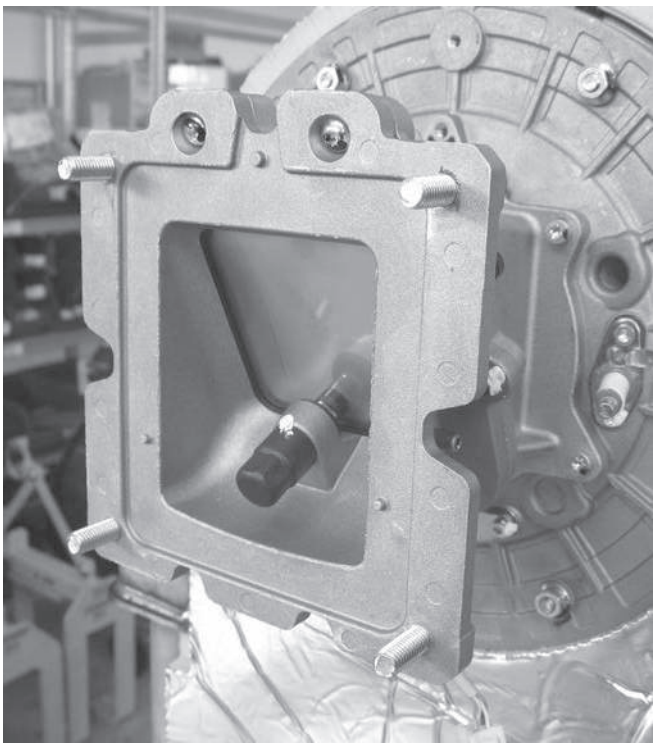
STUD THREADED ON BOTH ENDS

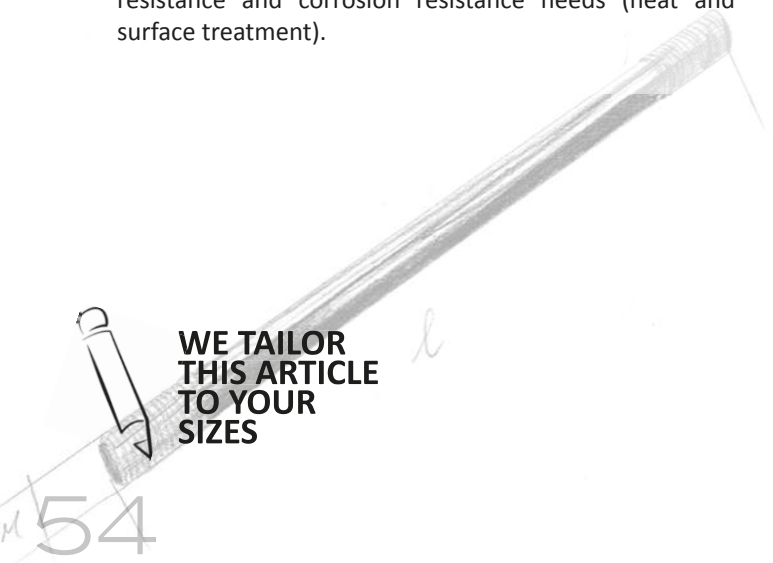


TYPE 112

Stud threaded on both ends, mainly used as an alternative to ordinary screws for connecting parts (when making a through hole in one of the parts to be connected is not possible or not convenient).

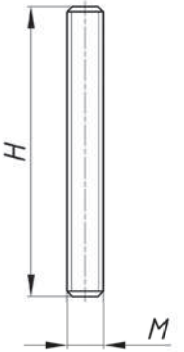
This article, like all the others made according to the customer's drawing, can be tailored and totally customized in accordance with your own design, material, resistance and corrosion resistance needs (heat and surface treatment).





WE TAILOR THIS ARTICLE TO YOUR SIZES

FULLY THREADED ROD

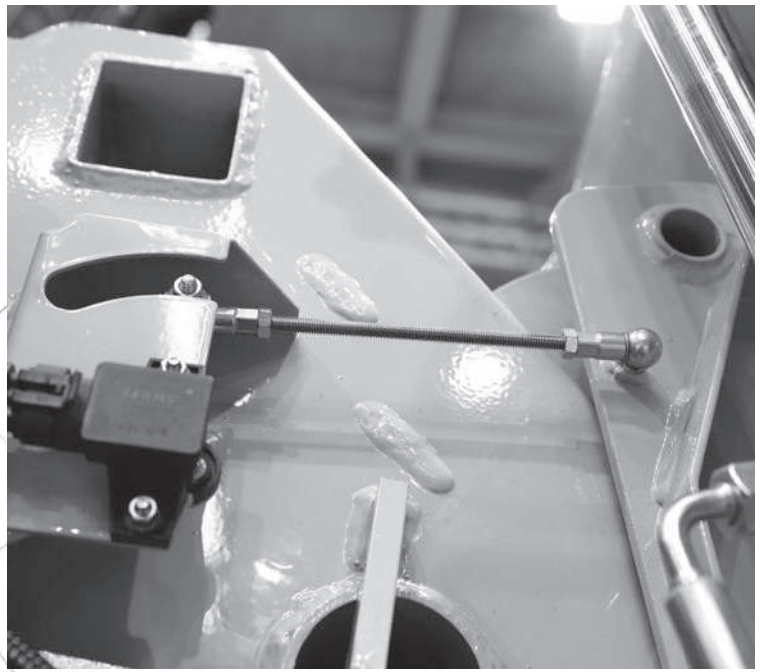


TYPE 110
TYPE 116

Fully threaded tie-rod, generally used for adjustable clamping of couplings and flanges.

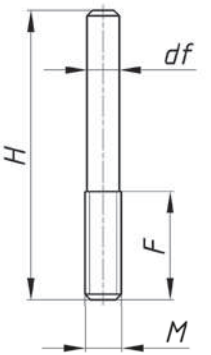
Type 116 refers to the kind of fully threaded rod supplied with a plastic net to protect the thread.

This article, like all the others made according to the customer's drawing, can be tailored and totally customized in accordance with your own design, material, resistance and corrosion resistance needs (heat and surface treatment).



WE TAILOR THIS ARTICLE TO YOUR SIZES

SINGLE END STUD GRUB SCREW



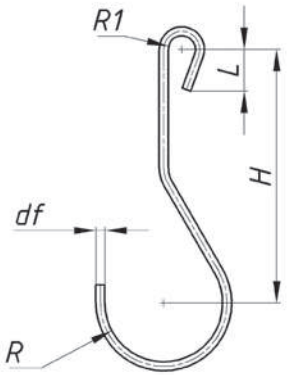
TYPE 111

Tie-rod threaded only on one end, generally used as a weld screw in woodwork.

This article, like all the others made according to the customer's drawing, can be tailored and totally customized in accordance with your own design, material, resistance and corrosion resistance needs (heat and surface treatment).

WE TAILOR THIS ARTICLE TO YOUR SIZES

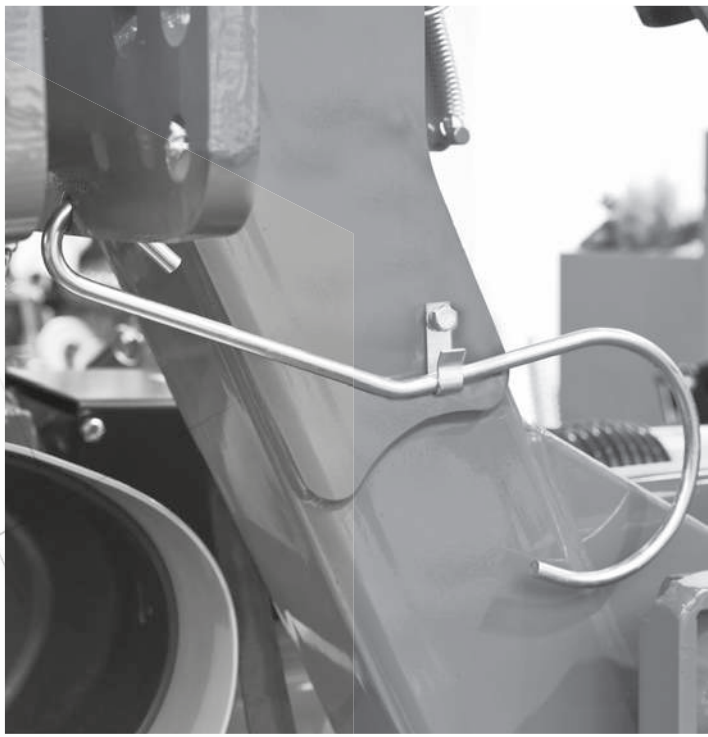
CARDAN SHAFT HOLDER



TYPE 328

Made of steel wire, used to support the cardan shaft after the tool is released from the tractor.
It matches with a coupling plate, so that the support can be secured to the machine frame when the shaft is connected to the operating tool.
For the complete kit, please refer to Zarri's corresponding standard article.

This article, like all the others made according to the customer's drawing, can be tailored and totally customized in accordance with your own design, material, resistance and corrosion resistance needs (heat and surface treatment).



WE TAILOR THIS ARTICLE TO YOUR SIZES

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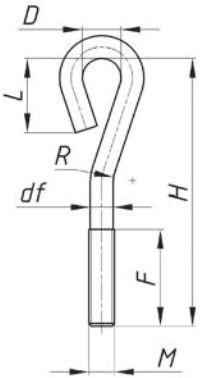
see page 109

EYE-BOLTS

Tie-rod threaded on one end and eye-bent on the other.

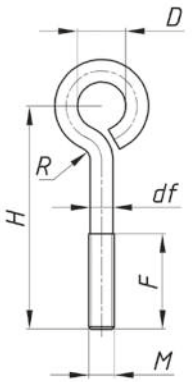
This article, like all the others made according to the customer's drawing, can be tailored and totally customized in accordance with your own design, material, resistance and corrosion resistance needs (heat and surface treatment).



TYPE 125

Eye-bolts

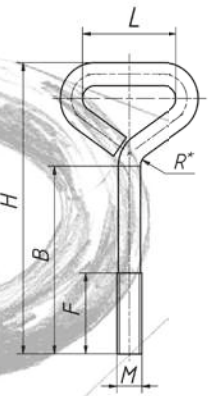
Large threaded tie-rod with one end bent into a ring, used in construction as foundation bolts, with unthreaded end embedded in the cement.



TYPE 122

Eyelet bolt

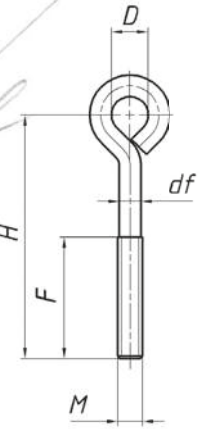
Threaded tie-rod with a ring-shaped bent end, commonly used for securing cables, ropes or chains.



TYPE 132

Triangular eye-bolt

Threaded tie-rod with one triangle-shaped bent end, commonly used to fasten straps or band clamps.



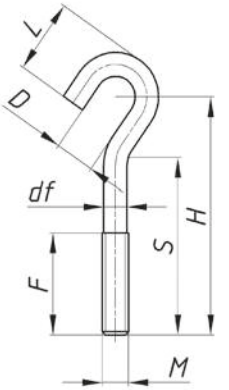
TYPE 151

Drop-shaped eyelet

Threaded tie-rod with a ring-shaped bent end, commonly used for securing cables, ropes or chains.

WE TAILOR THIS ARTICLE TO YOUR SIZES

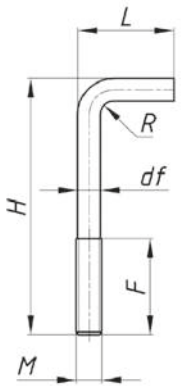
TIE-ROD WITH BENT END



TYPE 124

Hook

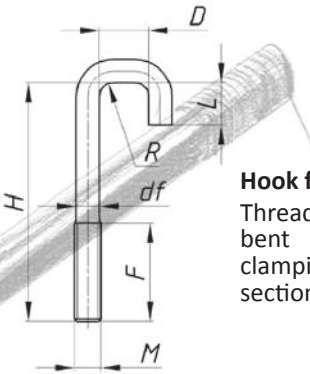
Threaded tie-rod with one squared bent end, commonly used for clamping square or rectangular section pipes.



TYPE 120

Bent end tie-rod L-BOLT

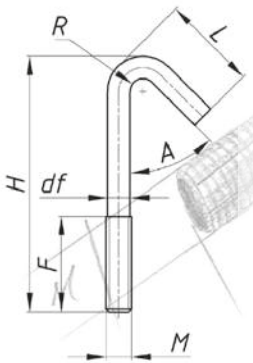
Threaded tie-rod with one bent end, may be used for motion transmission in jointed parts such as steering wheels and control levers, or (generally in bigger sizes) as foundation bolts.



TYPE 126

Hook for square pipes

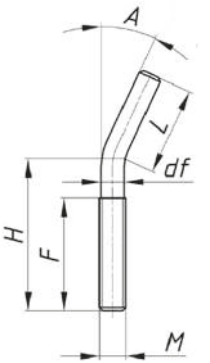
Threaded tie-rod with one squared bent end, commonly used for clamping square or rectangular section pipes.



TYPE 121

Bent end tie-rod

Threaded tie-rod with one bent end, may be used for motion transmission in jointed parts such as steering wheels and control levers, or (generally in bigger sizes) as foundation bolts.

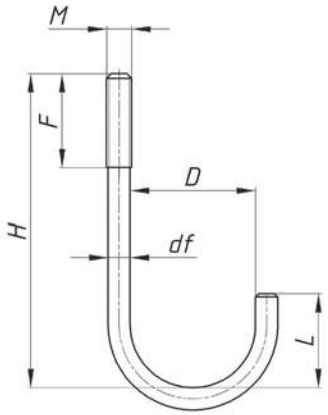


TYPE 135

Bent end tie-rod

Threaded tie-rod with one bent end, may be used for motion transmission in jointed parts such as steering wheels and control levers, or (generally in bigger sizes) as foundation bolts.

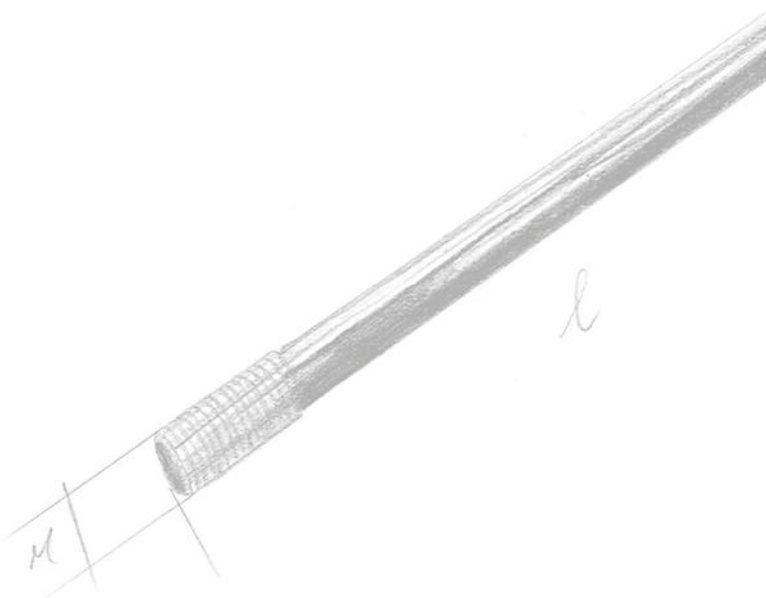
FOUNDATION BOLT OR HOOK FOR PIPES J-BOLT



TYPE 123

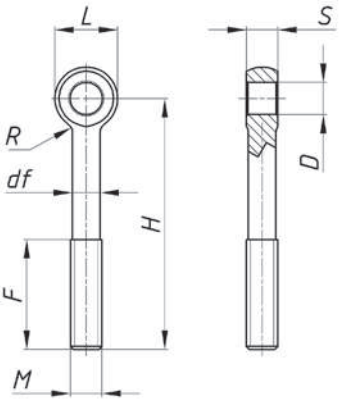
Threaded tie-rod with one end bent like an umbrella handle, used in the construction industry as foundation clamp or for supporting pipes.

This article, like all the others made according to the customer's drawing, can be tailored and totally customized in accordance with your own design, material, resistance and corrosion resistance needs (heat and surface treatment).



WE TAILOR THIS ARTICLE TO YOUR SIZES

PRESSED EYE-BOLT



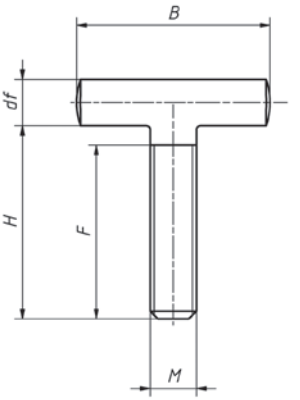
TYPE 129

Hot-pressed and holed tie-rod with one threaded end. Generally used in articulated joints and mechanical parts.

This article, like all the others made according to the customer's drawing, can be tailored and totally customized in accordance with your own design, material, resistance and corrosion resistance needs (heat and surface treatment).

WE TAILOR THIS ARTICLE TO YOUR SIZES

T-BOLT



TYPE 402

Cold-pressed part mainly used to obtain an articulated mounting system. Commonly used for mounting tanks.

This article, like all the others made according to the customer's drawing, can be tailored and totally customized in accordance with your own design, material, resistance and corrosion resistance needs (heat and surface treatment).

WE TAILOR THIS ARTICLE TO YOUR SIZES

FOR SIZES WITH PROMPT DELIVERY

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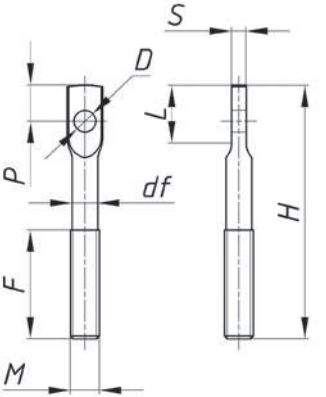
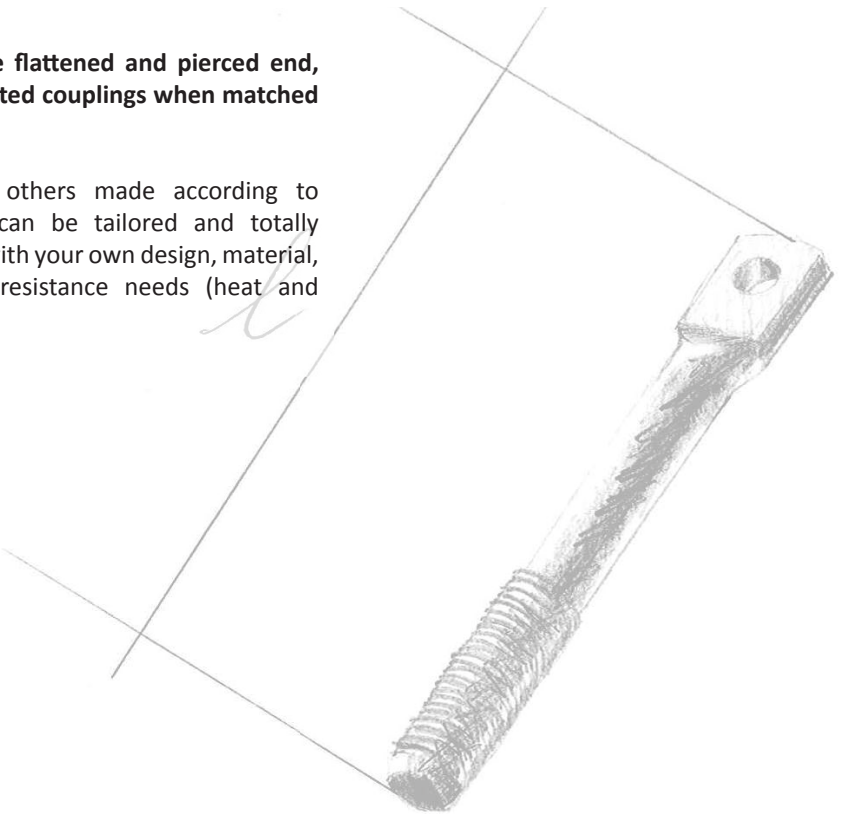
EYE-BOLT WITH PRESSED AND PIERCED END



TYPE 145

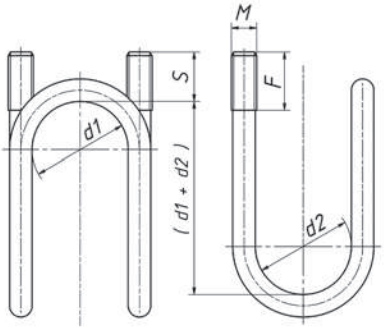
Threaded tie-rod with one flattened and pierced end, may be used to obtain jointed couplings when matched with a fork and a pin.

This article, like all the others made according to the customer's drawing, can be tailored and totally customized in accordance with your own design, material, resistance and corrosion resistance needs (heat and surface treatment).

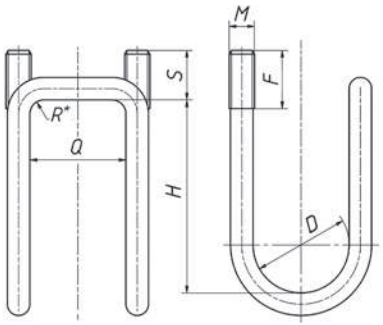


WE TAILOR THIS ARTICLE TO YOUR SIZES

CLAMP FOR CROSS PIPES



TYPE 106



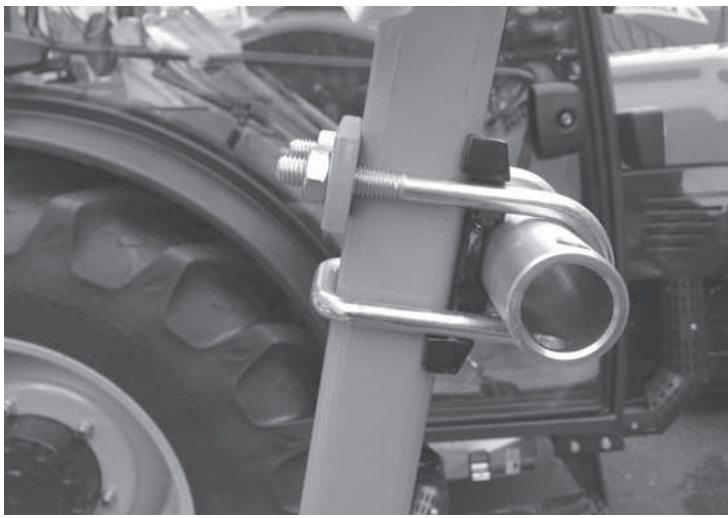
*optional

TYPE 108

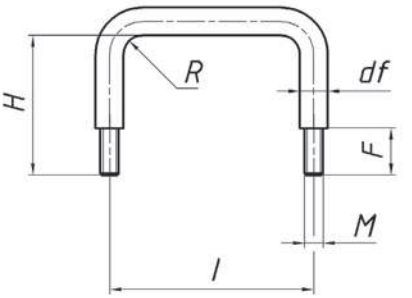
Double-threaded clamp for fastening round and/or square cross pipes.

This article, like all the others made according to the customer's drawing, can be tailored and totally customized in accordance with your own design, material, resistance and corrosion resistance needs (heat and surface treatment).

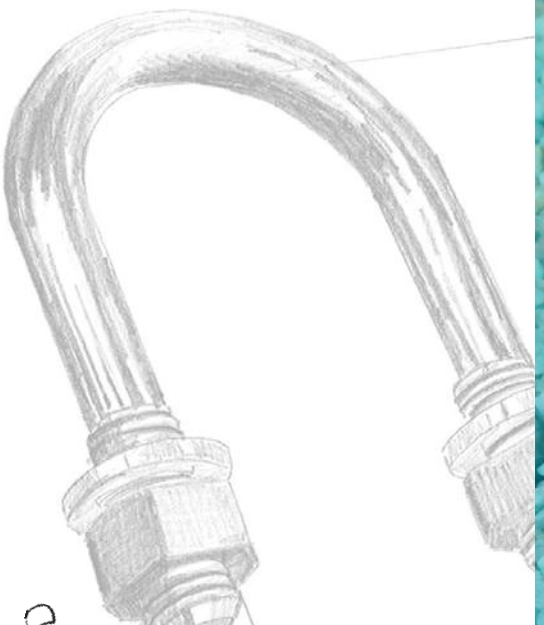
WE TAILOR THIS ARTICLE TO YOUR SIZES



HANDLE WITH EXTERNAL THREADS

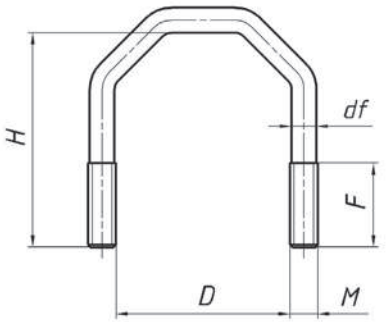


TYPE 202



WE TAILOR THIS ARTICLE TO YOUR SIZES

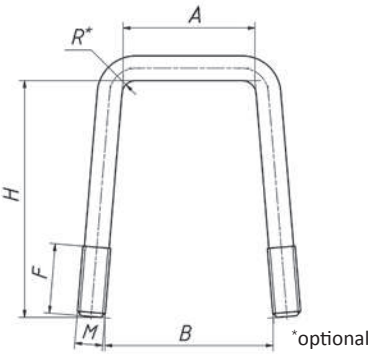
TYPE 104



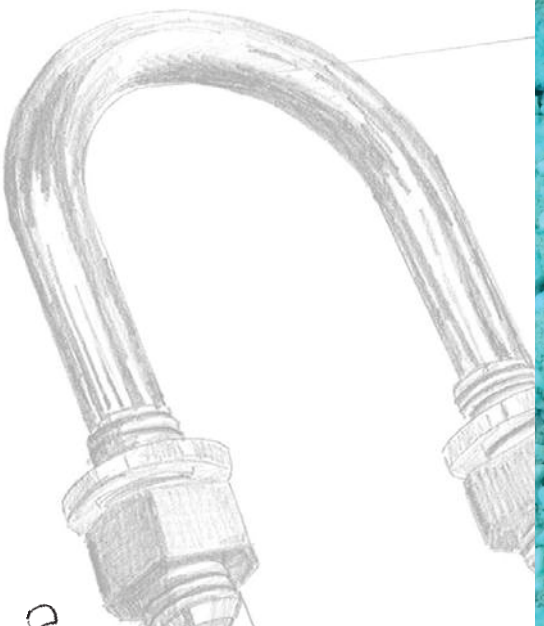
U-BOLT FOR OCTAGONAL PIPE CLAMPING

WE TAILOR THIS ARTICLE TO YOUR SIZES

OPEN SQUARE U-BOLT

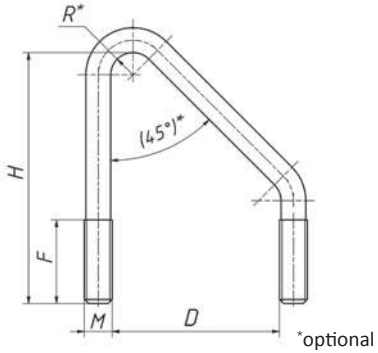


TYPE 139



WE TAILOR THIS ARTICLE TO YOUR SIZES

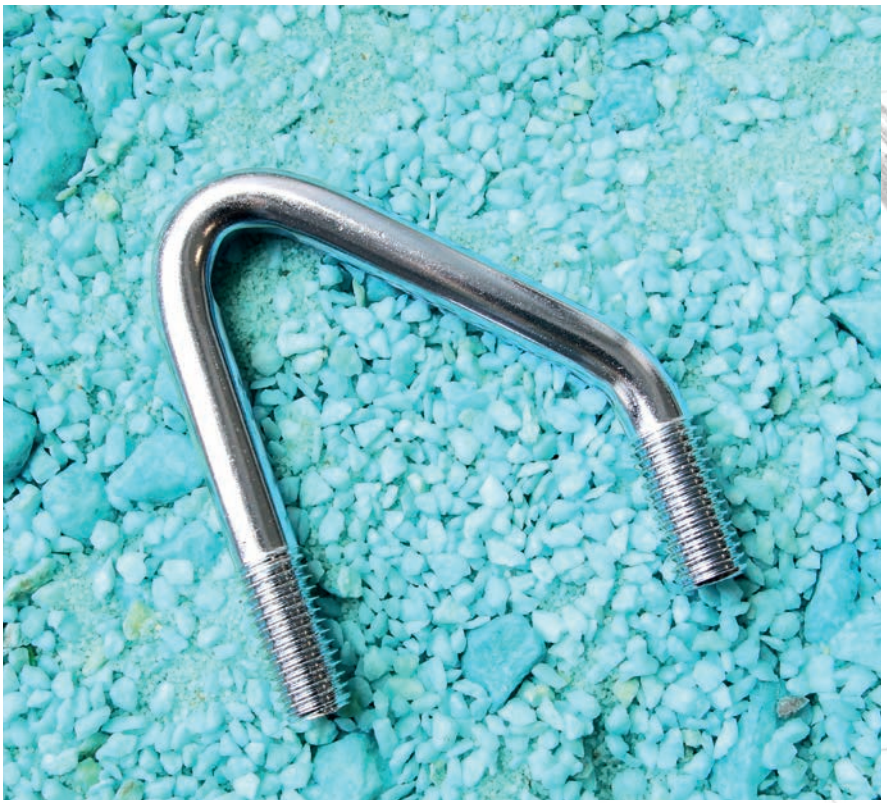
TYPE 109

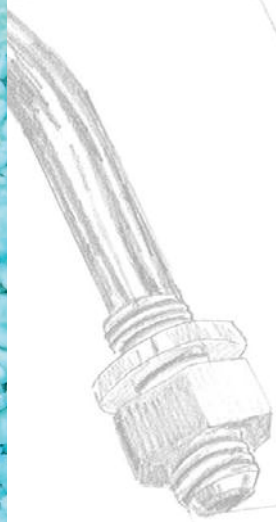


*optional

U-BOLT FOR L-SHAPED ELEMENTS CLAMPING

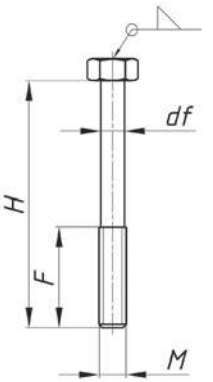
SLANT U-BOLTS





WE TAILOR THIS ARTICLE TO YOUR SIZES

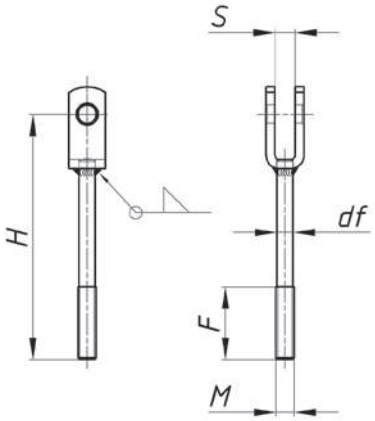
TIE-ROD WITH HEXAGONAL NUT WELDED ON TOP



TYPE 611

WE TAILOR THIS ARTICLE TO YOUR SIZES

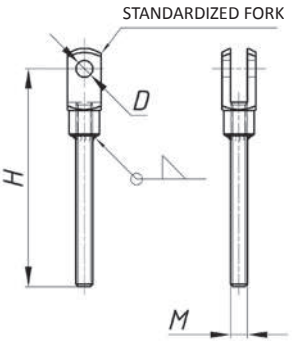
TYPE 605



TIE-ROD WITH WELDED PLATE FORK

WE TAILOR THIS ARTICLE TO YOUR SIZES

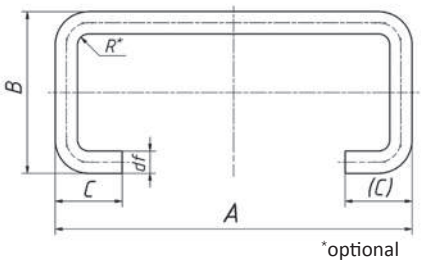
TIE-ROD WITH WELDED STANDARDIZED FORK



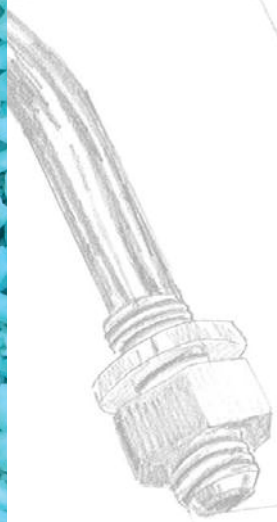
TYPE 607

WE TAILOR THIS ARTICLE TO YOUR SIZES

TYPE 310

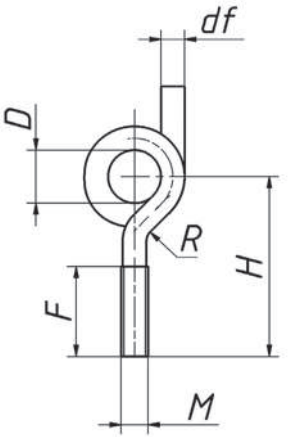


HANDLE or C-SHAPED WIRE

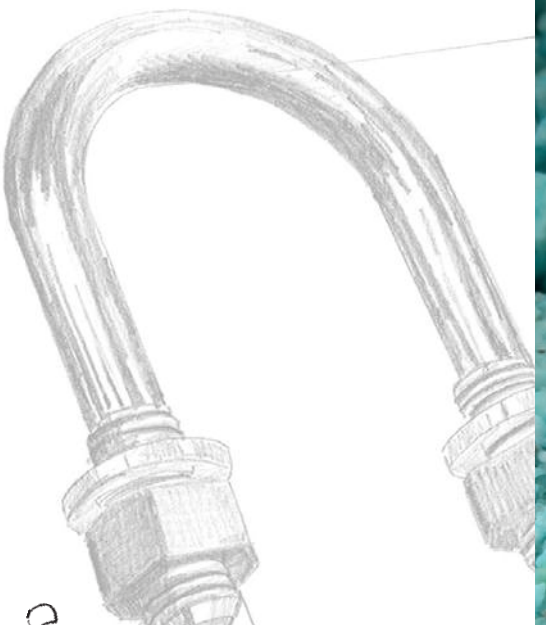


WE TAILOR THIS ARTICLE TO YOUR SIZES

CURLED TIE-ROD

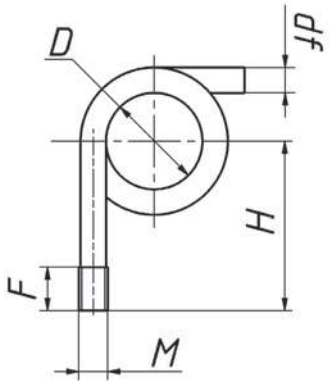


TYPE 162 A



WE TAILOR THIS ARTICLE TO YOUR SIZES

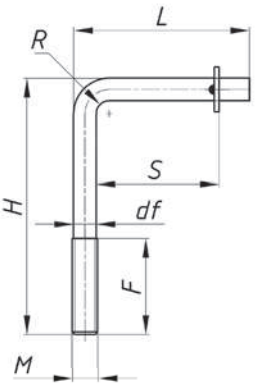
TYPE 162 B



CURLED TIE-ROD ON AXIS

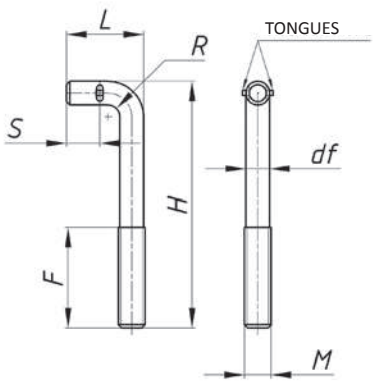
WE TAILOR THIS ARTICLE TO YOUR SIZES

TIE-ROD WITH WELDED WASHER



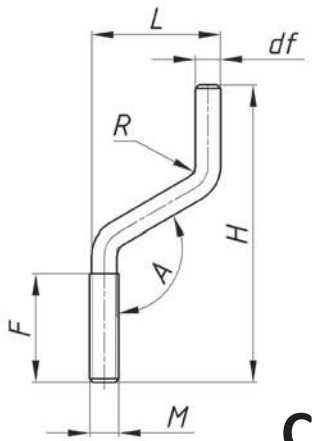
TYPE 609

WE TAILOR THIS ARTICLE TO YOUR SIZES



TYPE 340

BENT STUD WITH TONGUES

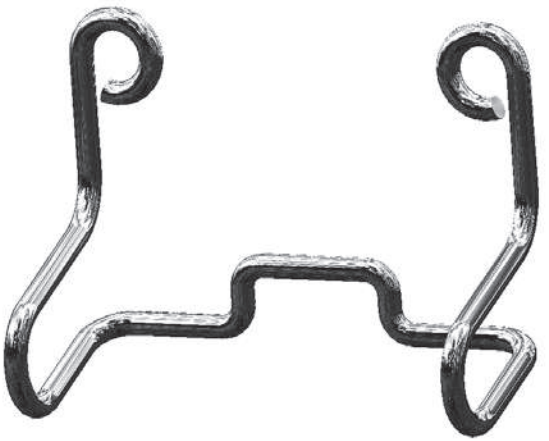


TYPE 128

CRANK TIE-ROD

WE TAILOR THESE ITEMS TO YOUR SIZES

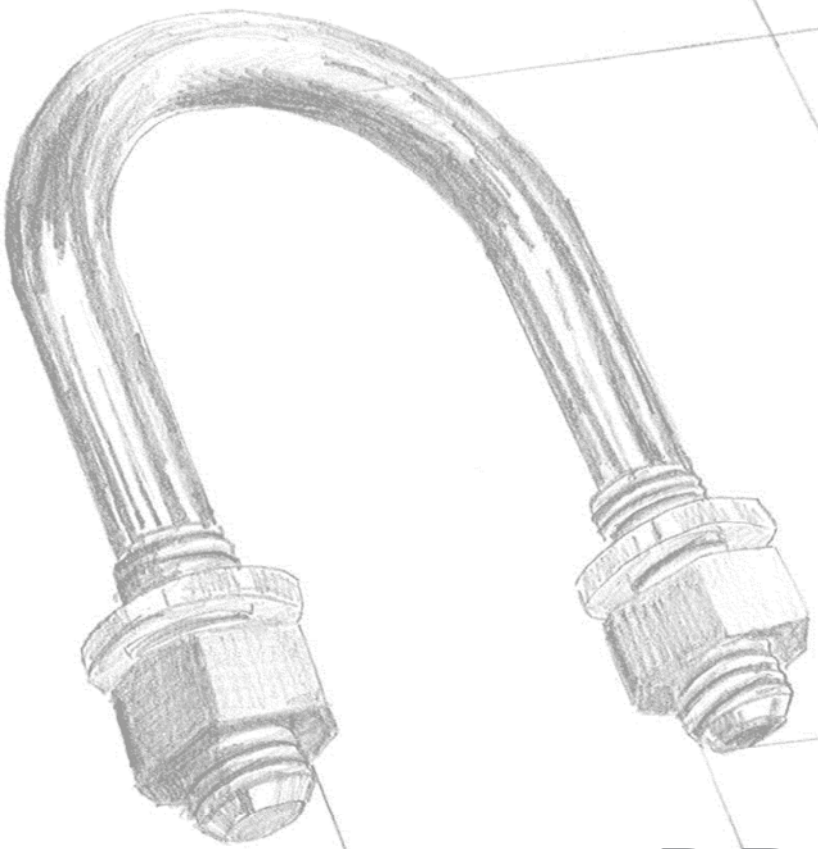
3-D SHAPED ARTICLES



Thanks to our many computer numerical control (CNC) machines, we are well-equipped to produce an endless variety of different shapes made from metal wire, of various sizes and with multiple kinds of bends and threads.

These articles are used in many sectors, including interior design (anti-slip fasteners for bending mattresses, structures of chairs and sofas), exterior design (outdoor playground equipment, bike racks, benches and other seats), automotive, display stands for trade shows, decorative items and many other fields.

FIND OUT WHAT ELSE WE THINK UP WITH STEEL WIRE



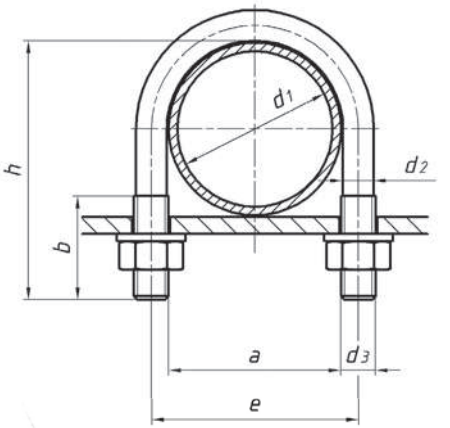
PROMPT DELIVERY ARTICLES

CONTENTS

ZARRI STANDARDS are **prompt delivery** items, available for **shipping just a few hours** after the order is received. Prompt delivery refers to material that is always available **unless sold after the offer and before the order**. In this case, **few days** of production will be required since they are frequently produced articles.

ROUND U-BOLT FOR CLAMPING PIPES

Made out of coated steel and stainless steel.
ISO metric thread.
Accessories for assembling included.
Product compliant to 2002/95/EC (RoHS).



TYPE 101

Materials

S275JRC+C EN 10025 (Fe 430)
Low carbon structural steel, drawn, with min. Rm 500 N/mm2 and min. $Rp_{0,2}$ 360 N/mm².

X2CrNi19-11+C (AISI 304L)
Austenitic stainless steel with good corrosion resistance, min. Rm 700 N/mm² and $Rp_{0,2}$ min. 450 N/mm².

X2CrNiMo17-12-2+C (AISI 316L)
Austenitic stainless steel with excellent corrosion resistance, min. Rm 700 N/mm² and $Rp_{0,2}$ min. 450 N/mm².

Finish

ZINC-PLATING ISO 2081 Fe/Zn8/A
Electrolytic zinc coating with minimum thickness 8 micron and Cr VI-free white passivation.

CRAPAL®
Matte grey Zinc/Aluminium coating, self-cicatrizing and with excellent corrosion resistance. See page 26 for a detailed description of this material.

WASHING
Degreasing washing. Only for stainless steel U-bolts.

Accessories ❶❷

N° 2 hexagonal nuts UNI 5588 grade 8, zinc-plated, A2-70 or A4-70.
N° 2 flat washers UNI 6592 grade 100HV, zinc-plated, 200HV AISI 304 or 200HV AISI 316.

NEWS: U-bolts can be combined with PLASTIC PLATES in polyamide and polypropylene. See pages 96 and 98 for standard articles.

Notes

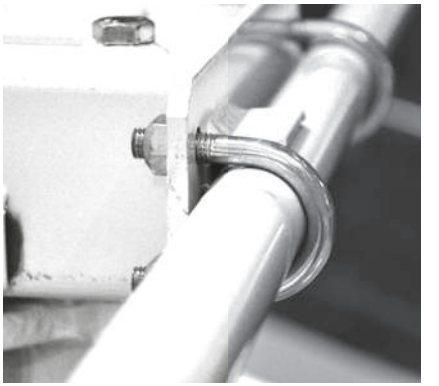
❶ On request, it is possible to change the number of the accessories and the quantity of the pieces included in every package.

❷ The Crapal® U-bolt range includes 2 DIN 6923 Geomet® flange nuts.

❸ Only available on request.

Tolerances

For the tolerances of standard articles, refer to the corresponding section on the website www.zarri.it or send a request to the sales office.



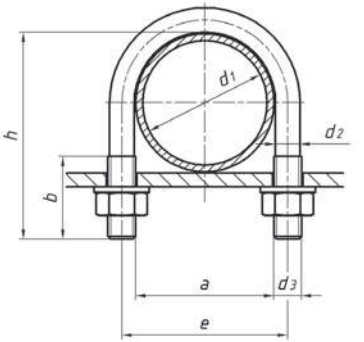
If you don't find your measures, your U-bolt will be made-to-measure!
See page 34

d_1	DN*	a [mm]	d_3	material and finish	h [mm]	b [mm]	e [mm]	d_2 [mm]	package qty	package kg	code	
1/8"	6	11	M6	S275JRC+C Zinc-plated	31	19	17	5,3	250	5.0	51011001	
				S275JRC+C Crapal®	31	19	17	5,3	250	5.0	51018001	❷❸
				AISI 304L Washed	29	16	17	5,3	200	3,9	51015001	
1/4"	8	14	M6	S275JRC+C Zinc-plated	34	19	20	5,3	250	5,3	51011002	
				S275JRC+C Crapal®	34	19	20	5,3	250	5,3	51018002	❷❸
				AISI 304L Washed	32	16	20	5,3	200	4,1	51015002	
3/8"	10	18	M6	S275JRC+C Zinc-plated	37	19	24	5,3	250	5,6	51011003	
				S275JRC+C Crapal®	37	19	24	5,3	250	5,6	51018003	❷❸
				AISI 304L Washed	36	16	24	5,3	200	4,4	51015003	
1/2"	15	22	M6	S275JRC+C Zinc-plated	43	25	28	5,3	250	6,2	51011005	
				S275JRC+C Crapal®	43	25	28	5,3	250	6,2	51018005	❷
				AISI 304L Washed	40	18	28	5,3	200	4,7	51015005	
			M8	S275JRC+C Zinc-plated	52	30	30	7,1	200	10,8	51012005	
				AISI 304L Washed	48	25	30	7,1	200	10,3	51016005	
				AISI 316L Washed	48	25	30	7,1	200	10,3	51017005	
			M10	S275JRC+C Zinc-plated	60	40	32	8,9	100	10,3	51013005	
3/4"	20	27	M6	S275JRC+C Zinc-plated	47	25	33	5,3	250	6,8	51011007	
				S275JRC+C Crapal®	47	25	33	5,3	250	6,8	51018007	❷
				AISI 304L Washed	45	18	33	5,3	200	5,2	51015007	
			M8	S275JRC+C Zinc-plated	56	30	35	7,1	200	11,5	51012007	
				AISI 304L Washed	52	25	35	7,1	200	11,0	51016007	
				AISI 316L Washed	52	25	35	7,1	200	11,0	51017007	
			M10	S275JRC+C Zinc-plated	66	40	37	8,9	100	11,0	51013007	
1"	25	34	M6	S275JRC+C Zinc-plated	55	25	40	5,3	250	7,5	51011010	
				S275JRC+C Crapal®	55	25	40	5,3	250	7,5	51018010	❷
				AISI 304L Washed	52	18	40	5,3	200	5,8	51015010	
			M8	S275JRC+C Zinc-plated	64	30	42	7,1	200	12,7	51012010	
				AISI 304L Washed	60	25	42	7,1	200	12,2	51016010	
				AISI 316L Washed	60	25	42	7,1	200	12,2	51017010	
			M10	S275JRC+C Zinc-plated	72	40	44	8,9	100	11,8	51013010	
1" ¼	32	43	M6	S275JRC+C Zinc-plated	63	25	49	5,3	250	8,4	51011012	
				S275JRC+C Crapal®	63	25	49	5,3	250	8,4	51018012	❷
				AISI 304L Washed	61	18	49	5,3	200	6,6	51015012	
			M8	S275JRC+C Zinc-plated	72	30	51	7,1	200	14,1	51012012	
				AISI 304L Washed	68	25	51	7,1	200	13,6	51016012	
				AISI 316L Washed	68	25	51	7,1	200	13,6	51017012	
			M10	S275JRC+C Zinc-plated	82	40	53	8,9	100	13,0	51013012	

continued

* The ND (Nominal Diameter) measurements are a conversion of d_1 into nominal value expressed in inches, and refer to standard UNI EN 10255:2007

U-BOLT FOR PIPE CLAMPING



TYPE 101

d_1	DN*	a [mm]	d_3	material and finish	h [mm]	b [mm]	e [mm]	d_2 [mm]	package qty	package kg	code	
1 ½"	40	49	M8	S275JRC+C Zinc-plated	73	30	57	7,1	200	14,4	51011015	
				S275JRC+C Crapal®	73	30	57	7,1	200	14,4	51018015	❷
				AISI 304L Washed	70	28	57	7,1	100	7,0	51015015	
			M10	S275JRC+C Zinc-plated	82	40	59	8,9	100	13,2	51012015	
				AISI 304L Washed	78	36	59	8,9	100	12,8	51016015	
				AISI 316L Washed	78	36	59	8,9	100	12,8	51017015	
			M12	S275JRC+C Zinc-plated	100	60	61	10,7	50	11,0	51013015	
2"	50	61	M8	S275JRC+C Zinc-plated	85	30	69	7,1	200	16,4	51011020	
				S275JRC+C Crapal®	85	30	69	7,1	200	16,4	51018020	❷
				AISI 304L Washed	82	28	69	7,1	100	8,0	51015020	
				AISI 316L Washed	82	28	69	7,1	100	8,0	51017024	
			M10	S275JRC+C Zinc-plated	94	40	71	8,9	100	14,6	51012020	
				AISI 304L Washed	90	36	71	8,9	100	14,2	51016020	
				AISI 316L Washed	90	36	71	8,9	100	14,2	51017020	
			M12	S275JRC+C Zinc-plated	112	60	73	10,7	50	12.0	51013020	
2" ½	65	77	M8	S275JRC+C Zinc-plated	101	30	85	7,1	100	9,5	51011025	
				S275JRC+C Crapal®	101	30	85	7,1	100	9,5	51018025	❷
				AISI 304L Washed	98	28	85	7,1	100	9,3	51015025	
			M10	S275JRC+C Zinc-plated	110	40	87	8,9	100	16,8	51012025	
				AISI 304L Washed	106	36	87	8,9	100	16,4	51016025	
				AISI 316L Washed	106	36	87	8,9	100	16,4	51017025	
			M12	S275JRC+C Zinc-plated	128	60	89	10,7	50	13,5	51013025	

If you don't find your sizes, your U-bolt will be made-to-measure! See page 34

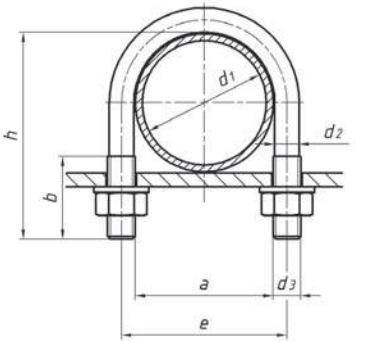
* The ND (Nominal Diameter) sizes are a conversion of d_1 into nominal value expressed in inches and refer to standard UNI EN 10255:2007

d_1	DN*	a [mm]	d_3	material and finish	h [mm]	b [mm]	e [mm]	d_2 [mm]	package qty	package kg	code	
3”	80	89	M8	S275JRC+C Zinc-plated	113	30	97	7,1	100	10,4	51011030	
				S275JRC+C Crapal®	113	30	97	7,1	100	10,4	51018030	❷
				AISI 304L Washed	110	28	97	7,1	100	10,2	51015030	
			M10	S275JRC+C Zinc-plated	122	40	99	8,9	50	9,2	51012030	
				AISI 304L Washed	118	36	99	8,9	50	9,3	51016030	
				AISI 316L Washed	118	36	99	8,9	50	9,3	51017030	
			M12	S275JRC+C Zinc-plated	140	60	101	10,7	50	14,7	51013030	
3” ½	90	102	M8	S275JRC+C Zinc-plated	130	35	110	7,1	100	11,7	51011035	
				S275JRC+C Crapal®	130	35	110	7,1	100	11,7	51018035	❷❸
				AISI 304L Washed	127	35	110	7,1	100	11,5	51015035	
			M12	S275JRC+C Zinc-plated	142	50	114	10,7	50	15,1	51012035	
				AISI 304L Washed	137	45	114	10,7	50	14,8	51016035	
			M16	S275JRC+C Zinc-plated	159	70	118	14,6	25	15,3	51013035	
4”	100	115	M8	S275JRC+C Zinc-plated	142	35	123	7,1	100	12,7	51011040	
				AISI 304L Washed	139	35	123	7,1	100	12,5	51015040	
			M10	S275JRC+C Crapal®	142	35	125	8,9	50	10,5	51018040	❷❸
			M12	S275JRC+C Zinc-plated	156	50	127	10,7	50	16,3	51012040	
				AISI 304L Washed	151	45	127	10,7	50	16,0	51016040	
			M16	S275JRC+C Zinc-plated	173	70	131	14,6	25	13,3	51013040	
5”	125	140	M8	S275JRC+C Zinc-plated	169	35	148	7,1	100	14,8	51011050	
				AISI 304L Washed	165	35	148	7,1	100	14,5	51015050	
			M10	S275JRC+C Crapal®	169	35	150	8,9	50	12,5	51018050	❷❸
			M12	S275JRC+C Zinc-plated	180	50	152	10,7	50	18,6	51012050	
				AISI 304L Washed	175	45	152	10,7	50	18,3	51016050	
			M16	S275JRC+C Zinc-plated	197	70	156	14,6	20	18,7	51013050	
6”	150	168	M10	S275JRC+C Zinc-plated	202	45	178	8,9	50	14,2	51011060	
				S275JRC+C Crapal®	202	45	178	8,9	50	14,2	51018060	❷❸
				AISI 304L Washed	196	45	178	8,9	50	13,9	51015060	
			M12	S275JRC+C Zinc-plated	208	50	180	10,7	50	21,2	51012060	
			M16	S275JRC+C Zinc-plated	225	70	184	14,6	25	21,1	51013060	

continued

* The ND (Nominal Diameter)measurements are a conversion of d_1 into nominal value expressed in inches and refer to standard UNI EN 10255:2007

U-BOLT FOR PIPE CLAMPING



TYPE 101

d_1	DN*	a [mm]	d_3	materials and finishes	h [mm]	b [mm]	e [mm]	d_2 [mm]	package qty	package kg	code	
8”	200	220	M10	S275JRC+C Zinc-plated	254	45	230	8,9	50	17,4	51011080	
				S275JRC+C Crapal®	254	45	230	8,9	50	17,4	51018080	❷❸
				AISI 304L Washed	248	45	230	8,9	50	17,2	51015080	
			M16	S275JRC+C Zinc-plated	267	60	236	14,6	25	24,8	51012080	
			M20	S275JRC+C Zinc-plated	285	80	240	18,2	10	16,5	51013080	
10”	250	274	M10	S275JRC+C Zinc-plated	308	45	284	8,9	50	20,9	51011100	
				S275JRC+C Crapal®	308	45	284	8,9	50	20,9	51018100	❷❸
				AISI 304L Washed	302	45	284	8,9	50	20,6	51015100	
			M16	S275JRC+C Zinc-plated	321	60	290	14,6	10	11,8	51012100	
			M20	S275JRC+C Zinc-plated	339	80	294	18,2	10	19,3	51013100	
12”	300	324	M16	S275JRC+C Zinc-plated	368	60	340	14,6	10	13,4	51011120	
			M20	S275JRC+C Zinc-plated	379	70	344	18,2	5	10,8	51012120	
			M24	S275JRC+C Zinc-plated	396	90	348	21,9	5	15,9	51013120	
14”	350	356	M16	S275JRC+C Zinc-plated	400	60	372	14,6	10	14,5	51011140	
			M20	S275JRC+C Zinc-plated	411	70	376	18,2	5	11,6	51012140	
			M24	S275JRC+C Zinc-plated	428	90	380	21,9	5	17,1	51013140	
16”	400	408	M16	S275JRC+C Zinc-plated	452	60	424	14,6	10	16,2	51011160	
			M20	S275JRC+C Zinc-plated	463	70	428	18,2	5	13,0	51012160	
			M24	S275JRC+C Zinc-plated	480	90	432	21,9	5	19,0	51013160	
18”	450	460	M20	S275JRC+C Zinc-plated	515	70	480	18,2	5	14,4	51012180	
			M24	S275JRC+C Zinc-plated	532	90	484	21,9	5	20,9	51013180	

If you don’t find your measures, your U-bolt will be made-to-measure! See page 34

* The ND (Nominal Diameter)measurements are a conversion of d_1 into nominal value expressed in inches and refer to standard UNI EN 10255:2007

d_1	DN*	a [mm]	d_3	materials and finishes	h [mm]	b [mm]	e [mm]	d_2 [mm]	package qty	package kg	code	
20"	500	510	**M20**	**S275JRC+C Zinc-plated**	565	70	530	18,2	5	15,7	**51012200**	
			M24	**S275JRC+C Zinc-plated**	582	90	534	21,9	5	22,7	**51013200**	
24"	600	612	**M20**	**S275JRC+C Zinc-plated**	667	70	632	18,2	5	18,3	**51012240**	
			M24	**S275JRC+C Zinc-plated**	684	90	636	21,9	5	26,5	**51013240**	

U-BOLT WITH DIMENSIONS ACCORDING TO DIN 3570 ❺

d_1	DN*	a [mm]	d_3	materials and finishes	h [mm]	b [mm]	e [mm]	d_2 [mm]	package ❺ qty	package ❺ kg	code	
1/2"	15	24	**M10**	**S275JRC+C Zinc-plated**	54	35	34	8,9	100	12.0	**51014005**	❸
3/4"	20	30	**M10**	**S275JRC+C Zinc-plated**	60	40	40	8,9	100	12,7	**51014007**	❸
1"	25	38	**M10**	**S275JRC+C Zinc-plated**	66	40	48	8,9	100	13,6	**51014010**	❸
1" ¼	32	46	**M10**	**S275JRC+C Zinc-plated**	76	50	56	8,9	100	14,7	**51014012**	❸
1 ½"	40	52	**M10**	**S275JRC+C Zinc-plated**	82	50	62	8,9	100	15,4	**51014015**	❸
2"	50	64	**M12**	**S275JRC+C Zinc-plated**	97	50	76	10,7	50	12,9	**51014020**	❸
2" ½	65	82	**M12**	**S275JRC+C Zinc-plated**	113	50	94	10,7	50	14,4	**51014025**	❸
3"	80	94	**M12**	**S275JRC+C Zinc-plated**	126	50	106	10,7	50	15,6	**51014030**	❸
4"	100	120	**M16**	**S275JRC+C Zinc-plated**	155	60	136	14,6	25	17,0	**51014040**	❸
5"	125	148	**M16**	**S275JRC+C Zinc-plated**	175	60	164	14,6	25	18,7	**51014050**	❸
6"	150	176	**M16**	**S275JRC+C Zinc-plated**	201	60	192	14,6	25	21,0	**51014060**	❸
7"	175	202	**M16**	**S275JRC+C Zinc-plated**	233	60	218	14,6	25	23,6	**51014070**	❸
8"	200	228	**M20**	**S275JRC+C Zinc-plated**	263	70	248	18,2	10	17,0	**51014080**	❸
10"	250	282	**M20**	**S275JRC+C Zinc-plated**	314	70	302	18,2	10	19,6	**51014100**	❸
12"	300	332	**M20**	**S275JRC+C Zinc-plated**	365	70	352	18,2	10	22,1	**51014120**	❸
14"	350	378	**M24**	**S275JRC+C Zinc-plated**	411	70	402	21,9	5	18,1	**51014140**	❸
16"	400	428	**M24**	**S275JRC+C Zinc-plated**	463	70	452	21,9	5	20,0	**51014160**	❸
20"	500	530	**M24**	**S275JRC+C Zinc-plated**	565	70	554	21,9	5	23,8	**51014200**	❸

❹ These u-bolts are supplied with 4 zinc-plated nuts UNI 5588 grade 8 and 2 zinc-plated flat washers UNI 6592 100HV.

❺ Measures indicated in the table differ from DIN 3570 in d_2 and the ½" u-bolt for pipe clamping.

* The ND (Nominal Diameter) measurements are a conversion of d_1 into nominal value expressed in inches and refer to standard UNI EN 10255:2007

TYPE 063

PLASTIC BASES FOR U-BOLTS

LONG BASES

MATERIAL CHARACTERISTICS

Material Code	PA	PP
Material	POLYAMIDE	POLYPROPYLENE Copolymers
Colour	BLACK	BLUE
MECHANICAL CHARACTERISTICS		
Modulus of elasticity in tension	8.500 MPa ISO 527-2	1.30 GPa ISO 527-2
Izod resistance to impact with notch 23°	9.0 KJ/m² ISO 180/A	_ _
Tensile strain at break 23°	3.3% ISO 527	6% ISO 527-2
Yield stress in tension	150 MPa ISO 527	25.0 MPa ISO 527-2
Charpy resistance to impact with notch	10 J/m² ISO 179	1.30J/cm² ISO 179
Shore Hardness	_ _	85 ISO2039-2
THERMAL FEATURES		
Flammability rating	V0 UL 94	_ _
Fire Prevention	EN 45545-2	_ _
Deformation temperature HDT 1.82 N/ mm²	245 °C ISO 75	_ _
Deformation temperature HDT 0.46 Mpa (66psi)	255 °C ISO 75	92.0°C ISO 75-2
Deformation temperature HDT 1,8 Mpa (264 psi)	245 °C ISO 75	50°C ISO 75-2
Softening temperature VICAT 49N	_ _	_ _
UV resistance	NO	NO
Maximum resistance to temperature	-40°C +140° C IEC 216	-30°C + 90°C IEC 216
ELECTRICAL CHARACTERISTICS		
Dielectric rigidity 2mm	21 KV/mm IEC 60243	_ _
Creeping current resistance 3.2mm SOL. A	600 V IEC 60112	_ _
Volume resistivity	10*13 Ohm/m IEC 60093	_ _
CHEMICAL FEATURES		
Weak acids - Alkaline Solution	Good resistance	Limited resistance
Petrol - Mineral oils	Good resistance	Good resistance
Alcohol - Other oils - Sea water	Good resistance	Good resistance

LONG BASES FOR U-BOLTS

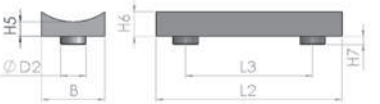
ø of the pipe Ø D1			sizes [mm]						weight		codes	
[mm]	inches		L2	L3	B	H5	H6	øD	POLYAMIDE [g]	POLYPROP. [g]	Code Polyamide	Code Polypropylene
26,9	3/4"	M6 M8 M10	70	37	30	5	12	11	25,00	16,00	30633007	30634007
33,7	1"	M6 M8 M10	75	43					26.80	16,50	30633010	30634010
42,4	1.1/4"	M6 M8 M10	75	52					25,50	16,80	30633012	30634012
48,3	1.1/2"	M8 M10 M12	95	60	35		15	13	46,60	29,50	30633015	30634015
60,3	2"	M8 M10 M12	95	72					44,00	29.00	30633020	30634020
76.1	2.1/2"	M8 M10 M12	115	88					55,90	36,00	30633025	30634025
88.9	3"	M8 M10 M12	135	100					57,00	30,80	30633030	30634030
102	3.1/2"	M8 M12 M16	150	117	40	10	20	18	84,50	53,50	30633035	30634035
114,3	4"	M8 M10 M12 M16	185	131					110,00	74,40	30633040	30634040
139,7	5"	M8 M10 M12 M16	210	154,5					131,00	84,40	30633050	30634050
168	6"	M10 M12 M16	220	182					138,20	90,00	30633060	30634060
219	8"	M10 M16 M20	280	240	50		25	22	260,50	156,40	30633080	30634080
273	10"	M10 M16 M20	350	294					323,30	192,40	30633100	30634100
324	12"	M16 M20 M24	420	348	60	15	30	26	529,40	340,00	30633120	30634120
356	14"	M16 M20 M24	460	380					618,50	387,00	30633140	30634140
406,4	16"	M16 M20 M24	510	432					681,90	431,50	30633160	30634160
457,2	18"	M20 M24	550	484					722,10	793,00	30633180	30634180
508	20"	M20 M24	600	534					795,80	916,00	30633200	30634200
609,6	24"	M20 M24	700	636					928,50	1030,00	30633240	30634240

TYPE 063

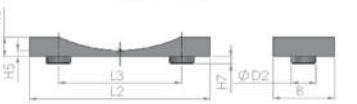
PLASTIC BASES FOR U-BOLTS

SHORT BASES

TIPO DA 5 A 8



TIPO DA 9 A 23



CHARACTERISTICS OF THE MATERIAL

Material Code	PA	PP
Material	POLYAMIDE	POLYPROPYLENE Copolymers
Colour	BLACK	BLUE
MECHANICAL CHARACTERISTICS		
Elastic module in traction	8.500 MPa ISO 527-2	1.30 GPa ISO 527-2
Izod resistance to impact with notch 23°	9.0 KJ/m² ISO 180/A	_ _
Tensile strain at break 23°	3.3% ISO 527	6% ISO 527-2
Yield stress in tension	150 MPa ISO 527	25.0 MPa ISO 527-2
Charpy resistance to impact with notch	10 J/m² ISO 179	1.30J/cm² ISO 179
Shore Hardness	_ _	85 ISO2039-2
THERMAL FEATURES		
Flammability rating	V0 UL 94	_ _
Fire Prevention	EN 45545-2	_ _
Deformation temperature HDT 1.82 N/ mm²	245 °C ISO 75	_ _
Deformation temperature HDT 0.46 Mpa (66psi)	255 °C ISO 75	92.0°C ISO 75-2
Deformation temperature HDT 1,8 Mpa (264 psi)	245 °C ISO 75	50°C ISO 75-2
Softening temperature VICAT 49N	_ _	_ _
UV resistance	NO	NO
Maximum resistance to temperature	-40°C +140° C IEC 216	-30°C + 90°C IEC 216
ELECTRICAL CHARACTERISTICS		
Dielectric rigidity 2mm	21 KV/mm IEC 60243	_ _
Creeping current resistance 3.2mm SOL A	600 V IEC 60112	_ _
Volume resistivity	10*13 Ohm/m IEC 60093	_ _
CHEMICAL FEATURES		
Weak acids - Alkaline Solution	Good resistance	Limited resistance
Petrol - Mineral oils	Good resistance	Good resistance
Alcohol - Other oils - Sea water	Good resistance	Good resistance

SHORT BASES FOR U-BOLTS

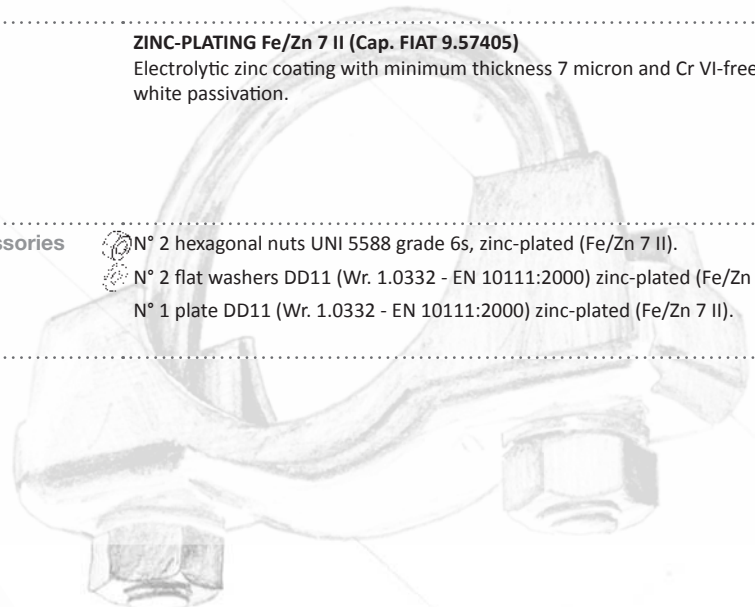
ø of the pipe Ø D1			sizes [mm]							weight		codes	
[mm]	inches		L2	L3	B	H5	H6	H7	øD	POLYAMIDE [g]	POLYPROP. [g]	Code Polyamide	Code Polypropylene
26,9	3/4"	M6 M8 M10	35	25	24	5	8	5	8	7,10	4,60	30631007	30632007
33,7	1"	M6 M8 M10										30631010	30632010
42,4	1.1/4"	M6 M8 M10										30631012	30632012
48,3	1.1/2"	M8 M10 M12										30631015	30632015
60,3	2"	M8 M10 M12	38		50		10	6	10	18,90	11,40	30631020	30632020
76.1	2.1/2"	M8 M10 M12										30631025	30632025
88.9	3"	M8 M10 M12	75	40PP (40.5 PA)	70	8	17	10	15	87,90	52,00	30631030	30632030
102	3.1/2"	M8 M12 M16										30631035	30632035
114,3	4"	M8 M10 M12 M16										30631040	30632040
139,7	5"	M8 M10 M12 M16										30631050	30632050
168	6"	M10 M12 M16	140	90PP (91 PA)	75		26		25	171,50	110,00	30631060	30632060
219,1	8"	M10 M16 M20										30631080	30632080
273	10"	M10 M16 M20										30631100	30632100
324	12"	M16 M20 M24	220	150PP (152 PA)			32		30	303,50	189,60	30631120	30632120
356	14"	M16 M20 M24										30631140	30632140
406,4	16"	M16 M20 M24										30631160	30632160
457,2	18"	M20 M24										30631180	30632180
508	20"	M20 M24										30631200	30632200

ROUND U-BOLT WITH PLATE

TYPE 680

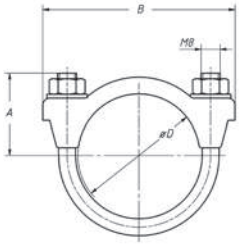
In coated steel.
ISO metric thread.
Accessories for assembling included.
Product compliant with 2002/95/EC (RoHS).

Material	**S235JRC+C EN 10025 (Fe 360)** Low carbon structural steel, drawn, with min. Rm 360÷490 N/mm2 and min. Rpeh 235 N/mm2.
Finish	**ZINC-PLATING Fe/Zn 7 II (Cap. FIAT 9.57405)** Electrolytic zinc coating with minimum thickness 7 micron and Cr VI-free white passivation.
Accessories	N° 2 hexagonal nuts UNI 5588 grade 6s, zinc-plated (Fe/Zn 7 II). N° 2 flat washers DD11 (Wr. 1.0332 - EN 10111:2000) zinc-plated (Fe/Zn 7 II). N° 1 plate DD11 (Wr. 1.0332 - EN 10111:2000) zinc-plated (Fe/Zn 7 II).



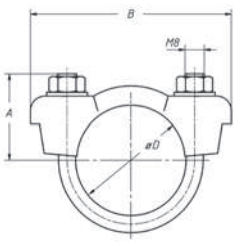
If you don't find your measures, your U-bolt will be made-to-measure!
See page 36

"A" MODEL



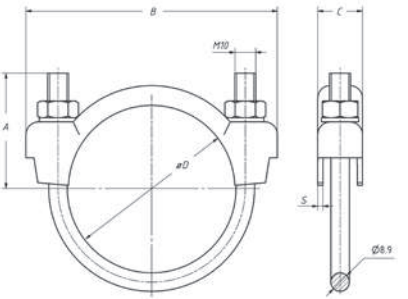
D	M	Materials and finishes	A	B	C	Packaging qty	Code
35	**M8**	**S235JRC+C Zinc-plated**	31	64,5	14	100	**56804035**
38	**M8**	**S235JRC+C Zinc-plated**	28,5	68	14	100	**56804038**
42	**M8**	**S235JRC+C Zinc-plated**	32	72	14,5	100	**56804042**
45	**M8**	**S235JRC+C Zinc-plated**	29,5	76	13,5	100	**56804045**
48	**M8**	**S235JRC+C Zinc-plated**	30,5	77,5	14,5	100	**56804048**
51	**M8**	**S235JRC+C Zinc-plated**	33,5	80,5	14	100	**56804051**
54	**M8**	**S235JRC+C Zinc-plated**	33,5	83,5	14	100	**56804054**
57	**M8**	**S235JRC+C Zinc-plated**	34	86,5	14	100	**56804057**
60	**M8**	**S235JRC+C Zinc-plated**	34,5	89,5	13,5	100	**56804060**

“B” MODEL

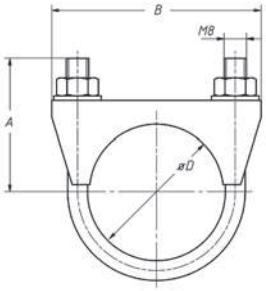


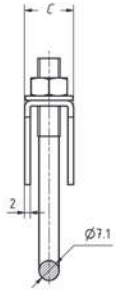
D	M	Materials and finishes	A	B	C	Packaging qty	Code
35	**M8**	**S235JRC+C Zinc-plated**	31	79	23,5	100	**56802035**
38	**M8**	**S235JRC+C Zinc-plated**	28,5	80	23,5	100	**56802038**
40	**M8**	**S235JRC+C Zinc-plated**	33,5	81	23,5	100	**56802040**
43	**M8**	**S235JRC+C Zinc-plated**	34,5	81,5	22	100	**56802043**
45	**M8**	**S235JRC+C Zinc-plated**	36	83,5	21,5	100	**56802045**
48	**M8**	**S235JRC+C Zinc-plated**	35,5	87,5	22,5	100	**56802048**
51	**M8**	**S235JRC+C Zinc-plated**	38,5	90	22	100	**56802051**
54	**M8**	**S235JRC+C Zinc-plated**	39,5	93	21,5	100	**56802054**
57	**M8**	**S235JRC+C Zinc-plated**	40,5	93,5	24	100	**56802057**
60	**M8**	**S235JRC+C Zinc-plated**	42,5	93,5	22	100	**56802060**

"C" MODEL



D	M	Materials and finishes	A	B	C	S	Packaging qty	Code
35	**M10**	**S235JRC+C Zinc-plated**	29,5	79	23,5	2	100	**56803035**
38	**M10**	**S235JRC+C Zinc-plated**	30	80	23,5	2	100	**56803038**
40	**M10**	**S235JRC+C Zinc-plated**	32,5	81	23,5	2	100	**56803040**
43	**M10**	**S235JRC+C Zinc-plated**	37,5	81,5	22	2	100	**56803043**
45	**M10**	**S235JRC+C Zinc-plated**	36	83,5	21,5	2	100	**56803045**
48	**M10**	**S235JRC+C Zinc-plated**	37,5	87,5	22,5	2	100	**56803048**
51	**M10**	**S235JRC+C Zinc-plated**	39	90	22	2	100	**56803051**
54	**M10**	**S235JRC+C Zinc-plated**	39,5	93	21,5	2	100	**56803054**
57	**M10**	**S235JRC+C Zinc-plated**	41,5	93,5	24	2	100	**56803057**
60	**M10**	**S235JRC+C Zinc-plated**	41,5	93,5	22	2	100	**56803060**
63	**M10**	**S235JRC+C Zinc-plated**	41,5	106,5	23	2,5	100	**56803063**
66	**M10**	**S235JRC+C Zinc-plated**	43	107,5	22,5	2,5	100	**56803066**
69	**M10**	**S235JRC+C Zinc-plated**	45	108,5	24,5	2,5	100	**56803069**
72	**M10**	**S235JRC+C Zinc-plated**	49	109,5	24,5	2,5	100	**56803072**
76	**M10**	**S235JRC+C Zinc-plated**	42,5	119,5	22	2,5	100	**56803076**
80	**M10**	**S235JRC+C Zinc-plated**	45.5	121	22,5	2,5	100	**56803080**
86	**M10**	**S235JRC+C Zinc-plated**	51	123	21,5	2,5	100	**56803086**
89	**M10**	**S235JRC+C Zinc-plated**	49	132,5	22,5	2,5	100	**56803089**
92	**M10**	**S235JRC+C Zinc-plated**	54	134,5	21,5	2,5	100	**56803092**
98	**M10**	**S235JRC+C Zinc-plated**	57	136,5	21,5	2,5	100	**56803098**
106	**M10**	**S235JRC+C Zinc-plated**	57,5	153	25	2,5	100	**56803106**
110	**M10**	**S235JRC+C Zinc-plated**	60	154,5	23,5	2,5	100	**56803110**
118	**M10**	**S235JRC+C Zinc-plated**	69	157	23,5	2,5	100	**56803118**
125	**M10**	**S235JRC+C Zinc-plated**	73,5	159,5	24	2,5	100	**56803125**

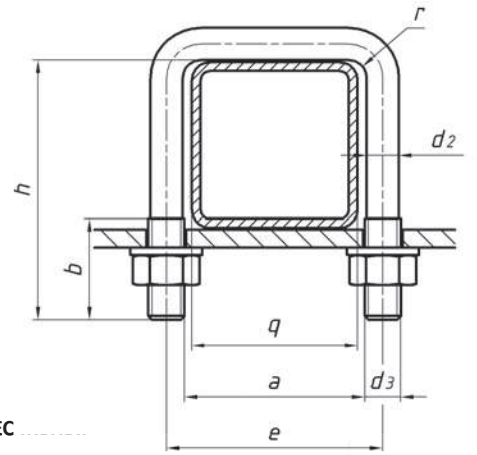




"D" MODEL

D	M	Materials and finishes	A	B	C	Packaging qty	Code
32	**M8**	**S235JRC+C Zinc-plated**	33,5	64	13,5	100	**56801032**
35	**M8**	**S235JRC+C Zinc-plated**	37,5	67,5	13,5	100	**56801035**
38	**M8**	**S235JRC+C Zinc-plated**	38,5	70,5	13,5	100	**56801038**
40	**M8**	**S235JRC+C Zinc-plated**	41,5	67	16	100	**56801040**
41	**M8**	**S235JRC+C Zinc-plated**	40,5	68,5	16,5	100	**56801041**
42	**M8**	**S235JRC+C Zinc-plated**	43,5	69,5	14	100	**56801042**
43	**M8**	**S235JRC+C Zinc-plated**	40	72	13	100	**56801043**
45	**M8**	**S235JRC+C Zinc-plated**	47	72	13	100	**56801045**
46	**M8**	**S235JRC+C Zinc-plated**	46,5	72	13	100	**56801046**
48	**M8**	**S235JRC+C Zinc-plated**	45	75	16	100	**56801048**
51	**M8**	**S235JRC+C Zinc-plated**	45	80	13,5	100	**56801051**
53	**M8**	**S235JRC+C Zinc-plated**	48	80	13,5	100	**56801053**
54	**M8**	**S235JRC+C Zinc-plated**	47,5	80,5	13,5	100	**56801054**
57	**M8**	**S235JRC+C Zinc-plated**	48,5	86	16	100	**56801057**
59	**M8**	**S235JRC+C Zinc-plated**	51,5	86	16	100	**56801059**

SQUARE U-BOLT FOR PIPE CLAMPING



TYPE 102

Zinc-plated steel
ISO metric thread.
Mounting accessories optional.
Product compliant with Directive 2002/95/EC

Materials

S275JRC+C EN 10025 (Fe 430)
Low carbon structural steel, drawn, with min. Rm 500 N/mm^2 and min. $Rp_{0,2}$ 360 N/mm^2.

Finish

ZINC-PLATING ISO 2081 Fe/Zn8/A
Electrolytic zinc coating with minimum thickness 8 micron and Cr VI-free white passivation.

Accessories Upon request

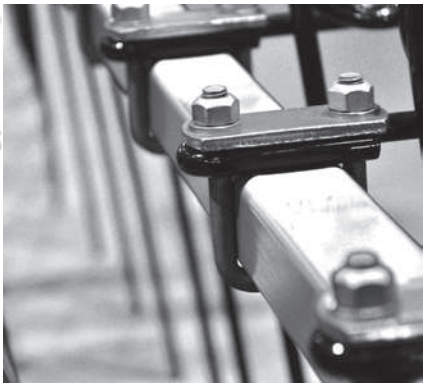
- Hexagonal nuts UNI 5588 grade 8, zinc-plated.
- Flat washers UNI 6592 grade 100HV, zinc-plated.
- Hexagonal nuts with flange DIN 6923 grade 8, zinc-plated

Note

❶ On request, it is possible to change the number of pieces included in the package.

Tolerances

For the tolerances of standard articles, refer to the corresponding section on the website www.zarri.it or send a request to the sales office.

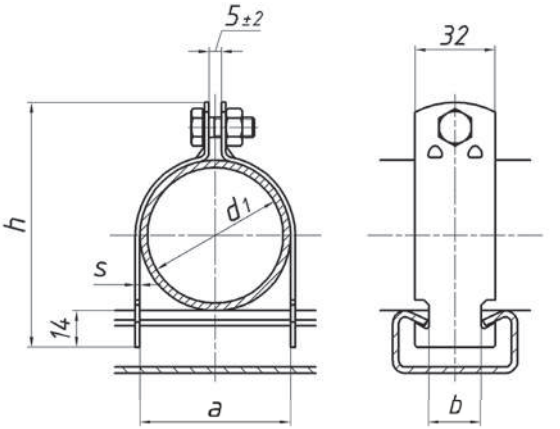


If you don't find your measures, your U-bolt will be made-to-measure!
See page 38

q	a [mm]	d_3	Materials and finishes	h [mm]	b [mm]	e [mm]	r	d_2 [mm]	package❶		code
									qty	kg	
30x30	31	M8	S235JRC+C Zinc-plated	50	25	39	4	7,1	200	8,6	31021030
		M10	S235JRC+C Zinc-plated	52	30	41	5	8,9	200	14,2	31022030
		M12	S235JRC+C Zinc-plated	56	35	43	6	10,7	50	5,5	31023030
40x40	41	M8	S235JRC+C Zinc-plated	60	25	49	4	7,1	200	10,4	31021040
		M10	S235JRC+C Zinc-plated	62	30	51	5	8,9	200	17,0	31022040
		M12	S235JRC+C Zinc-plated	66	35	53	6	10,7	50	6,5	31023040
50x50	51	M8	S235JRC+C Zinc-plated	70	25	59	4	7,1	200	12,3	31021050
		M10	S235JRC+C Zinc-plated	72	30	61	5	8,9	100	10,0	31022050
		M12	S235JRC+C Zinc-plated	76	35	63	6	10,7	50	7,6	31023050
60x60	61	M10	S235JRC+C Zinc-plated	82	30	71	5	8,9	100	11,5	31021060
		M12	S235JRC+C Zinc-plated	86	35	73	6	10,7	50	8,7	31022060
		M14	S235JRC+C Zinc-plated	90	40	75	7	12,6	50	12,4	31023060
		M16	S235JRC+C Zinc-plated	94	50	77	8	14,6	50	18.0	31024060
70x70	71	M10	S235JRC+C Zinc-plated	92	30	81	5	8,9	100	12,9	31021070
		M12	S235JRC+C Zinc-plated	96	35	83	6	10,7	50	9,7	31022070
		M14	S235JRC+C Zinc-plated	100	40	85	7	12,6	50	13,9	31023070
		M16	S235JRC+C Zinc-plated	104	50	87	8	14,6	50	20,0	31024070
80x80	81	M10	S235JRC+C Zinc-plated	102	30	91	5	8,9	100	14,4	31021080
		M12	S235JRC+C Zinc-plated	106	35	93	6	10,7	50	10,8	31022080
		M14	S235JRC+C Zinc-plated	110	40	95	7	12,6	50	15,4	31023080
		M16	S235JRC+C Zinc-plated	114	50	97	8	14,6	25	11,0	31024080
90x90	91	M10	S235JRC+C Zinc-plated	112	30	101	5	8,9	100	15,9	31021090
		M12	S235JRC+C Zinc-plated	116	35	103	6	10,7	50	11,9	31022090
		M14	S235JRC+C Zinc-plated	120	40	105	7	12,6	50	16,9	31023090
		M16	S235JRC+C Zinc-plated	124	50	107	8	14,6	25	12.0	31024090
100x100	101	M10	S235JRC+C Zinc-plated	122	30	111	5	8,9	50	9	31021100
		M12	S235JRC+C Zinc-plated	126	35	113	6	10,7	50	12,9	31022100
		M14	S235JRC+C Zinc-plated	130	40	115	7	12,6	50	18,3	31023100
		M16	S235JRC+C Zinc-plated	134	50	117	8	14,6	25	13,0	31024100
110x110	111	M16	S235JRC+C Zinc-plated	144	50	127	8	14,6	25	14,0	31024110
120x120	121	M16	S235JRC+C Zinc-plated	154	50	137	8	14,6	25	16,0	31024120

BAND CLAMPS FOR PIPE CLAMPING TUBEFIX

Made of zinc-plated steel and stainless steel. Accessories for assembling included (not assembled).
Product compliant with Directive 2002/95/EC (RoHS).



TYPE 711

Materials

S235JRC+C EN 10025 (Fe 360)
Low carbon structural steel, drawn, with min. Rm 360 N/mm² and min $Rp_{0,2}$ 235 N/mm².

X2CrNi19-11+c (AISI 304L)
Austenitic stainles steel with good corrosion resistance, min. Rm 700 N/mm² and min $Rp_{0,2}$ 450 N/mm².

Finish

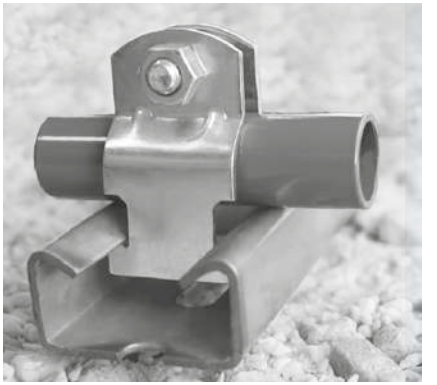
ZINC-PLATING ISO 2081 Fe/Zn8/A
Electrolytic zinc coating with minimum thickness 8 micron and Cr VI-free white passivation.

HOT DIP GALVANIZING COATING ISO 1461 Fe/Zn C ❶
Zinc coating for hot immersion. It provides significant resistance to corrosion due to the thickness of the zinc deposited on the surface.

Accessories ❶

N° 1 Hexagonal screw M8x20 UNI 5739 grade 4.8 zinc-plated or A2-70

N° 1 Hexagonal nut M8 UNI 5588 grade 8 zinc-plated or A2-70



Note

❶ Upon request, band clamps in hot zinc-coated steel can be ordered with stainless steel accessories instead of Geomet®.

❷ The stiffening ribs present in the bend of the picture above are present only in the sizes of tubefix up to 4". Size 5" and bigger ones do not need them.

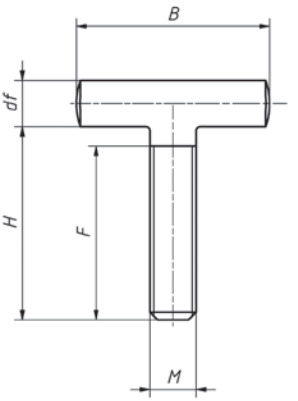
If you don't find your measures, your U-bolt will be made-to-measure!
See page 52

PROMPT DELIVERY ARTICLES - TYPE 711

d_1	a [mm]	h [mm]	Materials and finishes	b [mm]	s	package		code	
						qty	kg		
1/2"	22	57	S235JR Zinc-plated	21	2	200	13,7	51001005	
			S235JR Zinc-plated	21	2	200	13,7	51002005	
			AISI 304 Washed	21	1,8	200	13,7	51004005	
3/4"	28	63	S235JR Zinc-plated	21	2	200	15,1	51001007	
			S235JR Zinc-plated	21	2	200	15,1	51002007	
			AISI 304 Washed	21	1,8	200	15,1	51004007	
1"	35	70	S235JR Zinc-plated	21	2	200	17,3	51001010	
			S235JR Zinc-plated	21	2	200	17,3	51002010	
			AISI 304 Washed	21	1,8	200	17,3	51004010	
1" ¼	44	78	S235JR Zinc-plated	21	2	100	9,6	51001012	
			S235JR Zinc-plated	21	2	100	9,6	51002012	
			AISI 304 Washed	21	1,8	100	9,6	51004012	
1 ½"	50	86	S235JR Zinc-plated	21	2	100	10,2	51001015	
			S235JR Zinc-plated	21	2	100	10,2	51002015	
			AISI 304 Washed	21	1,8	100	10,2	51004015	
2"	62	96	S235JR Zinc-plated	21	2	100	11,8	51001020	
			S235JR Zinc-plated	21	2	100	11,8	51002020	
			AISI 304 Washed	21	1,8	100	11,8	51004020	
2" ½	78	112	S235JR Zinc-plated	21	2	100	13,4	51001025	
			S235JR Zinc-plated	21	2	100	13,4	51002025	
			AISI 304 Washed	21	1,8	100	13,4	51004025	
3"	90	125	S235JR Zinc-plated	21	2	100	14,8	51001030	
			S235JR Zinc-plated	21	2	100	14,8	51002030	
			AISI 304 Washed	21	1,8	100	14,8	51004030	
3" ½	103	137	S235JR Zinc-plated	21	2	100	15,8	51001035	
			S235JR Zinc-plated	21	2	100	15,8	51002035	
			AISI 304 Washed	21	1,8	100	15,8	51004035	
4"	116	150	S235JR Zinc-plated	21	2	100	16,8	51001040	
			S235JR Zinc-plated	21	2	100	16,8	51002040	
			AISI 304 Washed	21	1,8	100	16,8	51004040	
5"	141	176	S235JR Zinc-plated	21	2	100	18,8	51001050	
			S235JR Zinc-plated	21	2	100	18,8	51002050	
			AISI 304 Washed	21	1,8	100	18,8	51004050	

If you don't find your measures, your Tubefix will be made-to-measure! See page 52

T-BOLT



TYPE 402

In grade 4.8, coated steel
ISO metric threading.

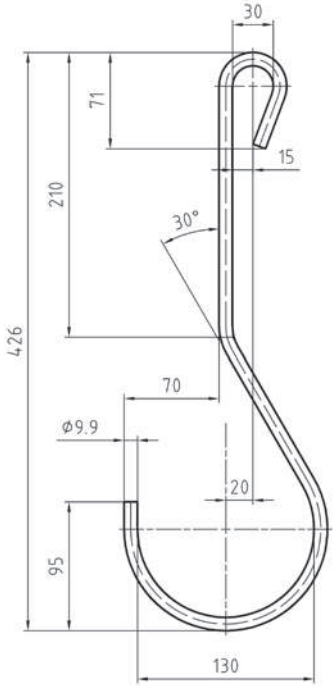
Materials **ASTM-SAE 1008**
Steel suitable for pressing and cold forming.

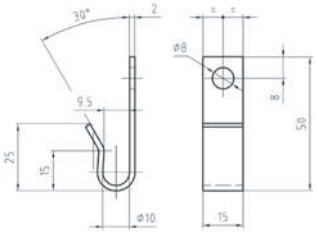
Finish **ZINC-PLATING ISO 2081 Fe/Zn8/A**
Electrolytic zinc coating with minimum thickness 8 micron.

M	Materials and finishes	df	H	B	F	KG/ea.	Codes
10	ASTM-SAE 1008 zinc-plated	12	72	40	67	0,075	84020001
12	ASTM-SAE 1008 zinc-plated	12	50	50	45	0,078	84020004
12	ASTM-SAE 1008 zinc-plated	12	75	50	70	0,096	84020003
12	ASTM-SAE 1008 zinc-plated	14	90	40	85	0,109	84020002

WE CAN MAKE YOUR CUSTOMIZED T-BOLT

If you don't find your measures, your U-bolt will be made-to-measure!
See page 70





TYPE 328

CARDAN SHAFT HOLDER

In grade 4.8, coated steel.

Code	**60492047**
Materials	**S275JRC+C (Fe 430)** Low carbon structural steel, drawn, with min. Rm 500 N/mm² and min. $Rp_{0,2}$ 360 N/mm²
Finish	**IRIDESCENT CHROMITING® + SEALANT FIAT 9.57405 - Fe/Zn 12 IV S** Electrolytic zinc coating with minimum thickness of 12 microns and added sealant.
Weight	**0,419 kg**
Accessories	**SUPPORT PLATE FOR CARDAN SHAFT HOLDER** CODE 87130003 Material: C67 Finish: ISO 2081 – Fe/Zn8/ER(210)2/A Electrolytic zinc coating, white CrIII + dehydrogenation Weight 0,020 kg

WE TAILOR THIS ARTICLE TO YOUR SIZES

If these sizes don't meet your needs,
we will make the cardan shaft holder with your sizes and bends.
See page 60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