



Your Fastening Need Companion

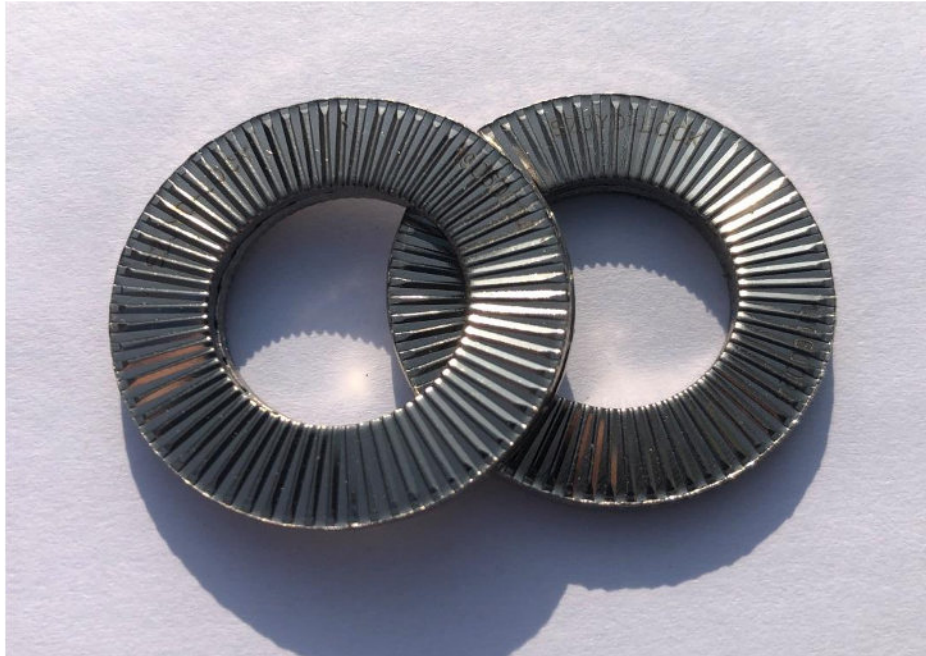
Special Washer Catalogue - 2023



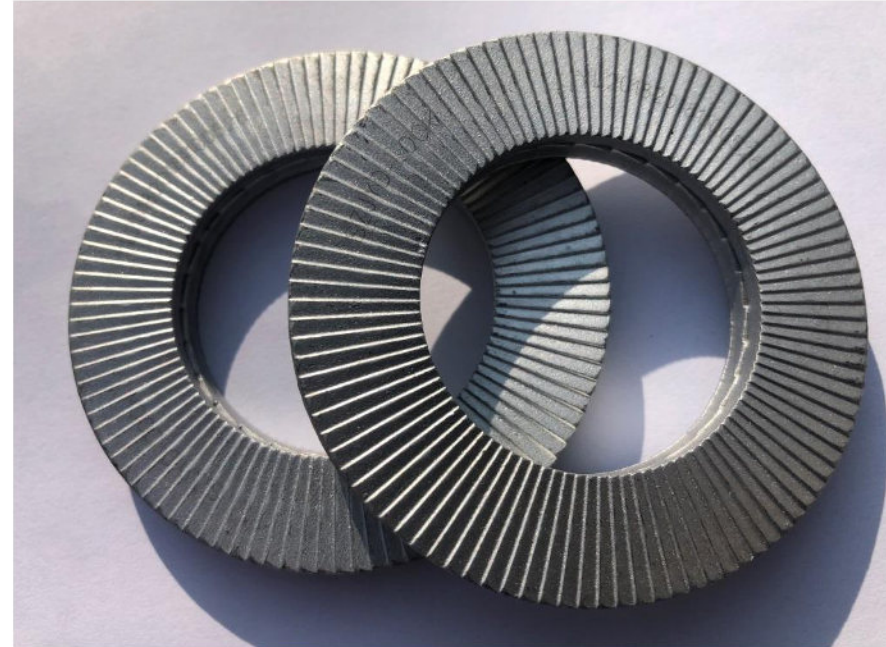


Sahaj-Lock DIN25201 Double-stacked Self-locking Washer

Stainless steel double-stacked self-locking washer



Carbon steel Dacromet double-stacked self-locking washers



K&B core products:

It is also called double-stacked self-locking washer, wedge-type locking washer, anti-loose washer, etc. Subject to "DIN25201/1-7 Technical Conditions" and EN64AA Standard. Features: Suitable for secure and fastened connections in high-load and continuous vibration environments! Test Standard: ISO16130/DIN65151. TB/T10431 Aerospace Standard! Adopt SUS304, SUS316L and 254SMO super stainless steel. Carbon steel is preferably S60C.EN1.7182 special alloy etc. Carbon steel HRC45 fully hardened and "Stainless Steel-HV550" Vickers hardened stainless steel double-stacked self-locking washer! Surface treatment: Zinc-aluminum coating Dacromet treatment. The manufacturing process of Sahaj-LOCK brand double-stacked self-locking washer is under strict control! M3-M80 specification anti-loosening function test can be provided, and all batches of washers are numbered and coded for quality traceability!

Sp means large outer diameter, SS means stainless steel, spss means stainless steel large outer diameter



KB-GE Flat Tooth Surface Locking Washer

Carbon steel flat locking washer for wind energy



KB-GE flat locking washer for wind energy.
Available specifications: (M24-M48)
Adopting the materials such as S60C carbon steel and EN1.7182 special alloy, providing mechanical galvanizing or zinc-aluminum coating treatment, etc.!
Combining Grade 8.8 high-strength bolts, it is used for anti-loosening fastening connection in the wind energy field.



ASTM-DTI/F959M Pressure Indicating Washer

ASTM- DTI/F959M pressure indicating washer



ASTM-DTI/F959M-GE pressure indicating locking washer. The commonly used specifications of M12-M36 . Adopting S50C elastic carbon steel material, providing mechanical galvanizing or zinc-aluminum coating treatment etc., combining Grade 8.8 high-strength bolts, it is used for anti-loosening fastening connection of the steel structure of bridges/stations/airports.



DIN9250S/VS Locking Washer

Phosphating black locking washer



Mechanical galvanized locking washer



Dacromet locking washer



Stainless steel locking washer



The product is strictly subject to the DIN9250S/VS Standard. Note: S indicates light type "Using with screws below Grade 8.8", VS means heavy type "Using with high-strength screws above Grade 8.8", the difference between S and VS is the thickness. Adopting S60C and SUS304.SUS316 stainless steel, etc., after hardening, the carbon steel locking washer is subject to phosphating black/mechanical galvanizing/zinc-aluminum coating surface treatment! The commonly used specifications of M2-M42 are in stock! Other sizes can be customized! It is used for locking assembly connection of screws!



JBZQ4340 Double-sided Tooth Washer

Stainless steel double-sided tooth washer



Carbon steel double-sided tooth washer



Refer to DIN9250VS for JB ZQ4340 National Standard locking washer
Available specifications: (M5-M30)
Name: locking washer, double-sided tooth locking washer, dish-shaped locking washer, etc.!
Main materials: SUS304.316. (A2.A4) and carbon steel S60C, etc., providing phosphating black, mechanical galvanizing and zinc-aluminum coating treatment, etc.! It is used for anti-loosening fastening connection with hexagon head screw.



NFE25511 Stainless Steel Series Products

A2/SUS304 stainless steel French washer



A4/SUS316 stainless steel French washer



K&B is specialized in the production of SUS304.SUS316 stainless steel French washers with elastic hardening treatment, French washers used in railway locomotive equipment and electrical communication applications, which is subject to the tension friction and anti-loosening principle. It is used for stainless steel screw and nut locking assembly connection. It is strictly subject to the NFE25511 Technical Standard! The commonly used models OF M3-M20 are in stock and can be delivered on the same day! Special size can be customized! Please don't hesitate to contact us for detailed information!



NFE25511 French Washer Carbon Steel Series Products



Carbon steel galvanized



Carbon steel Dacromet



NFE25511 French washer is made of S60C, and is subject to phosphating black/mechanical galvanizing/zinc-aluminum coating treatment after fully hardened. French washers used in railway locomotive equipment and electrical communication applications, which is subject to the tension friction and anti-loosening principle. It is strictly subject to the NFE25511 Technical Standard! The commonly used models OF M3-M20 are in stock and can be delivered on the same day! Special size can be customized!



SKB French Washer Series Products

A2.A4-B-type French washer



TG Dacromet – B-type French washer



The French washer series in the field of railway locomotive equipment and electrical equipment are available from stock all the year round, and the B-type French locking washer subject to the SKB French standard. The materials include SUS304.316.A2.A4.S60C and special alloy steel. All the materials are subject to strict hardening treatment. Surface treatment: Eco-friendly phosphating black, mechanical galvanizing, Dacromet coating treatment! The commonly used models of M6-M16 are in stock and can be delivered on the same day! Special size can be customized!



SKM French Washer Series Products

A2.A4-M-type French washer



TG Dacromet – M-type French washer



The French washer series in the field of railway locomotive equipment and electrical equipment and the M-type French locking washer subject to the SKM French standard. The materials include SUS304.316.A2.A4.S60C and special alloy steel. All the materials are subject to strict hardening treatment. Surface treatment: Eco-friendly phosphating black, mechanical galvanizing, Dacromet coating treatment! The commonly used models of M4-M30 are in stock and can be delivered on the same day! Special size can be customized!



SKS French Washer Series Products

A2A4-S-type French washer



TG Dacromet – S-type French washer



The French washer series in the field of railway locomotive equipment and electrical equipment are available from stock all the year round, and the S-type French locking washer subject to the SKS French standard. The materials include SUS304.316.A2.A4.S60C and special alloy steel. All the materials are subject to strict hardening treatment. Surface treatment: Eco-friendly phosphating black, mechanical galvanizing, Dacromet coating treatment! The commonly used models of M4-M12 are in stock and can be delivered on the same day! Special size can be customized!

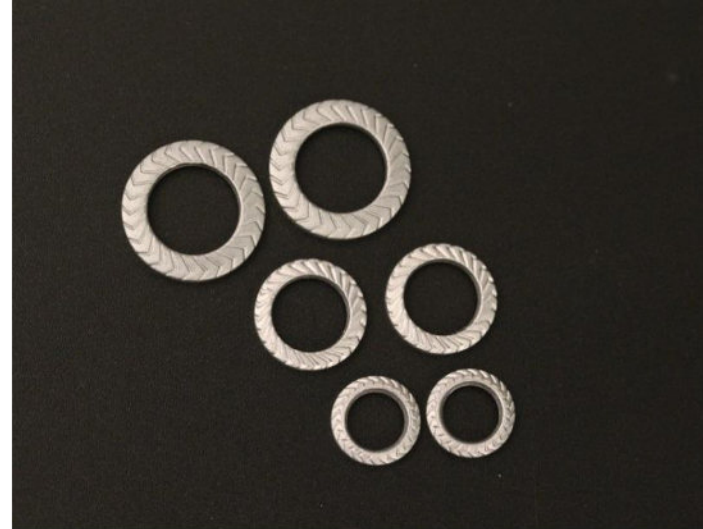


SKZ French Washer Series Products

A2.A4-Z-type French washer



TG Dacromet – Z-type French washer



It is suitable for the application in railway locomotive equipment and electrical equipment, and the Z-type French locking washer is subject to the SKZ Standard. Adopting SUS304.SUS316 and S60C elastic carbon steel, etc. Mechanical galvanizing, zinc-aluminum coating treatment after hardening! The commonly used models of M6-M16 are in stock and can be delivered on the same day! Special size can be customized!



SKK Grounding Washer

SKK carbon steel grounding washer



SKK stainless steel grounding washer



SKK grounding washer, also known as SK locking washer

Main material: SUS304.316.S60C, etc., subject to mechanical galvanizing and zinc-aluminum coating treatment etc. after hardening!

The commonly used models of M4-M12 are in stock. Special size can be customized! It is mostly used for the assembly and connection of the rail locomotives!



SN70093 Grounding Washer

SN70093 carbon steel grounding washer



SN70093 stainless steel grounding washer



Grounding washer is also called puncture washer. It is subject to SN70093 Siemens Standard. Adopting SUS304.SUS316 and S60C elastic carbon steel, etc. Mechanical galvanizing, zinc-aluminum coating treatment after hardening! The commonly used models of M3-M24 are in stock! Special size can be customized! It is mostly used for the assembly and connection of the electrical system of rail locomotives!



DIN6795 Grounding Washer

A2.A4- stainless steel grounding washer



TG Dacromet grounding washer



Grounding washer is also called puncture washer. It is subject to DIN6795 German Standard. Main material: Adopting A2.A4.SUS304.316 and S60C, etc. Mechanical galvanizing, zinc-aluminum coating treatment after hardening! The commonly used models of M2.5-M20 are in stock! Special size can be customized! It is mostly used in the electrification assembly connection system of locomotives such as high-speed rail/subway/urban rail!



NFE-3L French Triple-stacked Washer

Carbon steel Dacromet



Mechanical galvanizing



SUS316/A4



SUS304/A2



Product name: French Triple-stacked washer

Executive standard: NFE-3L

Available specifications: (M4-M20)

Main material: SUS304.316 (A2.A4) and 51CrVA4, etc.

Subject to strict hardening treatment. It is specially used for IGBT module power shunt of high-speed railway locomotives. It can also be used for electrical grounding connection.

Electroplating process: Adopting eco-friendly mechanical galvanizing and zinc-aluminum coating treatment, etc.!

Twelve years of professional experience! Trustworthy brand!

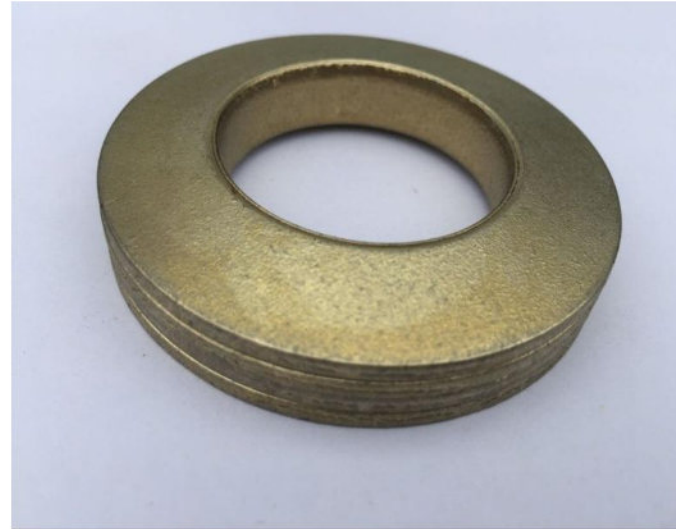


NFE-4L French Four-stacked Washer

Zinc magnesium Dacromet



Mechanical yellow zinc



Product name: French Four-stacked washer
Executive standard: NFE-4L
Available specifications: (M6-M60)
Main material: SUS304.316.(A2.A4) and 51CrVA4, etc.
Subject to strict hardening treatment.
Electroplating process: Adopting eco-friendly phosphating black, mechanical galvanizing and Dacromet coating treatment, etc.! It is specially used for railway locomotive systems such as high-speed rail braking and high-speed rail bogies.
Twelve years of professional experience!
The quality is trustworthy!



NFE25510 Disc Washer

NFE25510 stainless steel



NFE25510 Spring steel



Product name: Narrow disc washer, high tension disc washer.
Executive standard: NFE25510 DIN6796HS
Main material: SUS304.316.51CrVA4, adopting eco-friendly phosphating black, mechanical galvanizing and Dacromet coating treatment, etc.!
Special Notes: The commonly used models of M5-M20 are in stock! Function: It is used with screws to prevent loosening, and is suitable for small assembly space. Good washers are made by STL - Trustworthy quality!



DIN6796 Disc Washer

Stainless steel DIN6796



Carbon steel DIN6796



Tension disc washer, also known as cup-shaped or conical washer.

Executive standard: DIN6796、ISO10670、JBZQ4010、QCT601

Main material: SUS304.316(A2.A4) and carbon steel S60C. adopting eco-friendly phosphating black, mechanical galvanizing and zinc-aluminum coating treatment, etc.!

Special Notes: Refer to DIDIN6796 Standard for JBZQ4010 and NFE25510! It is mainly used for the anti-loosening assembly with screw.

Specifications: M3-M20 is in stock, other specifications need to be customized!

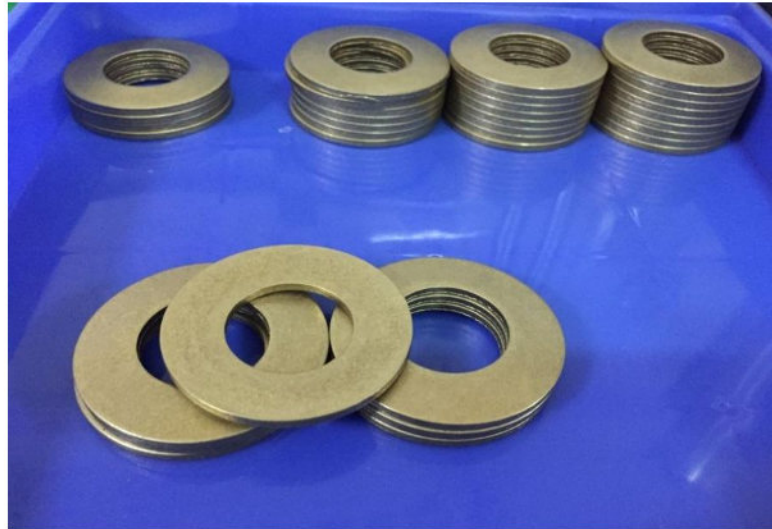


DIN2093 Disc Spring Washer

GB1972 (A.B.C)



DIN2093 (A.B.C)



Product name: Disc spring washer, disc spring, cup-shaped washer, etc.

Executive standard: NFE255104.DIN2093 (A.B.C)

Main material:

SUS304.316.65MN.60Si2Mn.51CrVA4, etc. special materials.

Surface treatment: mechanical galvanizing and Dacromet or phosphating black, etc.!

Function: For reset tuning and suspension load, it features strict requirements on elasticity and mechanical property!

Special Notes: GB1972 (A.B.C)

Refer to DIN2093 Standard! According to the conditions of use, the limited service life of disc washers in the market is generally 60,000 times.



SN60727 Pitting Surface Washer

VSKD stainless steel pitting surface washer



VSK carton steel pitting surface washer



VSKZ carton steel pitting surface washer



VSKZ stainless steel pitting surface washer (narrow type)



SN60727- (M3-M27)

Main material: SUS304.316 65MN, Dacromet coating treatment after hardening!

The standard is designed and formulated by Siemens and the product is mainly used in the anti-loosening and tension friction type anti-loosening elastic washer in the field of railway locomotives and mechanical equipment! It is mainly used for locomotive systems safe connection such as rail locomotive assembly, high-speed rail braking!



DIN6797J Internal Tooth Locking Washer

SUS304.316 internal tooth washer



SK5.65MN galvanized internal tooth washer



DIN6797J-(M2-M30)

Main material:

A2.A4.SUS304.316.S60C.65MN, galvanizing, nickel plating and blackening, etc.

Function: It is used for locking with Grade 8.8 and below and stainless steel screw.

It is mainly used in electronic appliances, electrical equipment, communications, sheet metal electrical control cabinets, circuit board fixing and other industries!



DIN6797A External Tooth Locking Washer

SUS304/316 external tooth washer



65MN/SK5 galvanized external tooth washer



DIN6797A-(M2-M30)

Main material:

SUS304.316.S60C.65MN,
galvanizing, nickel plating and
blackening, etc.

Function: It is used for locking with
Grade 8.8 and below and stainless
steel screw.

It is mainly used in electronic
appliances, electrical equipment,
communications, sheet metal electrical
control cabinets and other industries!



DIN6798J Internal Serrated Washer

SUS304.316 internal serrated washer



SK5.65MN galvanized internal serrated washer



DIN6798J-(M2-M30)

Main material:

A2.A4SUS304.316.S60C.65MN,
galvanizing and blackening, etc.

Function: It is used for locking with
Grade 8.8 and below and stainless steel
screw.

It is mainly used in electronic
appliances, electrical equipment,
communications, sheet metal electrical
control cabinets and other industries!



DIN6798A External Serrated Washer

SUS304.316 external serrated washer



SK5.65MN galvanized external serrated washer



DIN6798A-(M2-M30)

Main material:

A2.A4.SUS304.316.S60c.65MN, galvanizing, nickel plating and blackening, etc.

Function: It is used for locking with Grade 8.8 and below and stainless steel screw.

It is mainly used in electronic appliances, electrical equipment, communications, sheet metal electrical control cabinets and other industries!



GB861.1/GB862.2

GB861.1 internal tooth washer



GB862.1 external tooth washer



GB861.2 internal serrated washer



GB862.2 external serrated washer



GB861.1/GB861.2/GB862.1/GB862.2-(M2-M20)

SUS304.316/S60C.65MN, galvanizing and nickel plating, etc. after fully hardened.

It is used for locking with Grade 8.8 and below and stainless steel screw.

It is mainly used in electronic appliances, electrical equipment, communications, sheet metal electrical control cabinets and other industries!



Copper Serrated Locking Washer

Brass external serrated washer



Beryllium-copper external serrated washer



Some of them are in stock and can also be customized, various copper serrated washers are used for grounding. Electrical equipment, industrial control switches, electrical switches, communications, etc.



DIN6797V Conical External Tooth Washer

Stainless steel conical external tooth washer



Carbon steel galvanized conical external tooth washer



DIN6797V-(M2-M16)

A2.A4.SUS304.316/S60.65MN, galvanized or Dacromet surface treatment after hardened.

It is used for locking with Grade 8.8 and below and stainless steel countersunk head screw. It is used in elevator, door control, communication, automobile industry and other industries.



DIN6798V Conical External Serrated Washer

Stainless steel conical external serrated washer



Carbon steel galvanized conical external serrated washer



DIN6798V-(M2-M16)

A2.A4.SUS304.316/S60C.65MN
galvanized or Dacromet surface
treatment after hardened.

It is used for locking with Grade
8.8 and below and stainless steel
countersunk head screw. It is used
in elevator, door control,
communication, automobile
industry and other industries.

The commonly used models are in
stock, the mold development has
been carried out.



GB956.1/GB956.2

Conical external tooth washer



Conical external serrated washer



GB956.1/GB956.2-(M3-M12)
SUS304.316/S60C.65MN,
galvanized or Dacromet coating
treatment after hardened.
It is used for locking with Grade
8.8 and below and stainless steel
countersunk head screw. It is
used in elevator, door control,
communication, automobile
industry and other industries.



NFE25512 Conical Internal Serrated Washer

NFE25512



Conical internal serrated locking washer



NFE25511-(M2.5-M16)
SUS304.316/S60C.65MN
galvanized or Dacromet coating
treatment after hardened.
It is used for locking with
Grade 8.8 and below and
stainless steel countersunk head
screw. It is used in elevator,
door control, communication,
automobile industry and other
industries.



Q411/QCT333 Internal and External Serrated Washer

Carbon steel galvanized internal and external serrated washer



Stainless steel internal and external serrated washer



Q411/QCT333-(M3-M16)
SUS304.316/SK5.65MN galvanized or
Dacromet surface treatment after
hardened.
It is used for locking with Grade 8.8
and below and stainless steel screw. It
is used in elevator, door control,
communication, automobile industry
and other industries.



JISB1251 Internal and External Tooth Locking washer

Carbon steel galvanized internal and external tooth washer



Stainless steel internal and external tooth washer

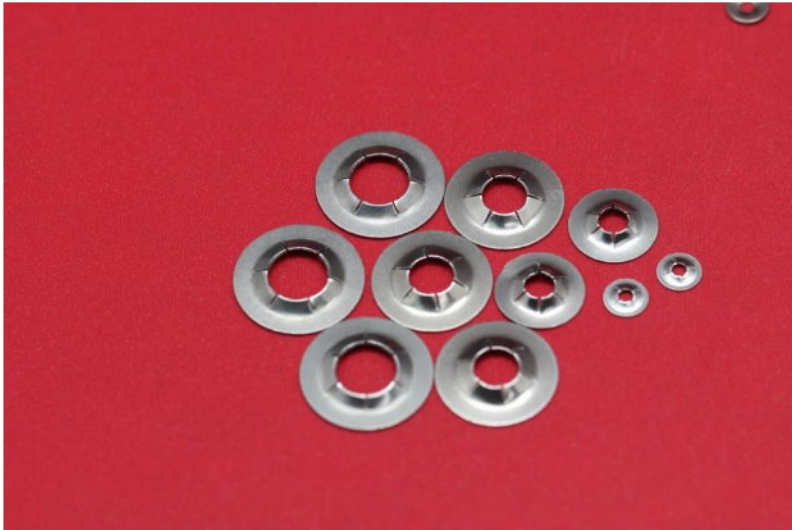


JISB1251-(M4-M16)
SUS304.316/S60C.65MN, galvanized surface treatment after hardened.
It is used for locking with Grade 8.8 and below and stainless steel screw. It is used in elevator, door control, communication, automobile industry and other industries.



SPN Heavy-duty Shaft Positioning Washer

SPN heavy-duty positioning washer – stainless steel



SPN heavy-duty positioning washer – carton steel black



SPN-(M1.2-M12)
SUS304.316/S60C.65MN
black after hardened. Heavy-duty non-threaded shaft column locking washer, it is suitable for shaft locking installation with large force, and features excellent fixing effect!



CSTW Light Shaft Positioning Washer

CSTW light positioning washer – stainless steel



CSTW light positioning washer – carton steel black



CSTW-(M2-M22)
SUS304.316/65MN black after hardened. Light shaft locking washer, it is mainly suitable for plastic column, aluminum column, copper column, stainless steel shaft non-threaded column locking!



Bearing Clip

Stainless steel bearing clip



Carbon steel bearing clip



STL-(M2-M30)
SUS304.316/65MN black after
hardened. Heavy-duty shaft clip,
it is suitable for non-threaded
shaft locking



Capped Bearing Clip

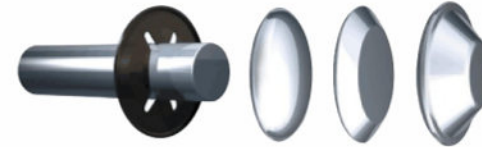
Stainless steel capped bearing clip



Carbon steel capped bearing clip



Cap clip shape can be customized



STL-(M2-M25)
SUS304.316/65Mnharden
ed galvanizing, nickel-
plated, electrophoretic and
other non-threaded shaft
locking installation, the
product is widely used in
luggage and electronic
industries!

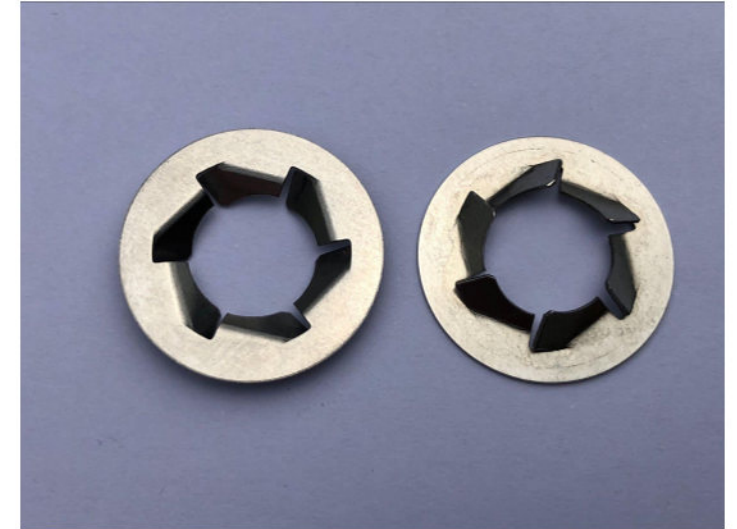


Self-locking Caps for Screw

Stainless steel self-locking cap for screw



Carbon steel self-locking cap for screw



In Europe, the machinery manufacturing installation regulation requires the necessary safety fixing of the parts before assembly; therefore, the bolt locking washers have been designed according to the relevant regulations. The advantage is that it can be easily assembled on the bolt with minimal force. When the bolt is placed in the positioning hole of the assembly, the bolt retaining ring can be easily pushed along the end of the thread to the nut and securely fix the bolt in its position. , the bolts will be maintained in position during transportation. This is a relatively easy and fast installation of the fixed assembly, and the method is very simple and practical! The product can be produced according to standard or customized. This product is widely supplied to industries such as car seats and luggage!



DIN7967 Securing Nut

Stainless steel securing nut



Carbon steel galvanizing securing nut



DIN7967-(M5-M52)
SUS304.316/SK5.65Mn hardened
galvanizing and Dacromet, all securing
nut molds have been fully developed,
conventional stainless steel securing
nuts are available in stock, and feature
high production efficiency and stable
quality with progressive mold, which
boasts obvious competitive advantages!
It is suitable for fixing the nut after
installation, preventing manual
disassembly and loosening.



GB805 Securing Nut

Carbon steel galvanizing securing nut



Carbon steel Dacromet securing nut



GB805-(M6-M48) SUS304.316 S60C.65MN hardened galvanizing and Dacromet, The development of all securing nut molds has been completed, and most of them are in stock! It features stable quality with progressive mold, and boasts obvious competitive advantages with low cost and high efficiency! It is suitable for fixing the nut after installation, preventing manual disassembly and loosening.



GB860/DIN137A Saddle Washer

Stainless steel saddle washer



Carbon steel black saddle washer



Executive standard: GB860-DIN137A

Supply specifications: (M2-M12)\

Adopting SUS304.316/65MN high-quality steel. It is subject to strict hardening and blackening surface treatment! Relevant type test report can be provided! At present, 80% of machinery industry users in the Pearl River Delta region use saddle washers!The regular products are in stock, special specifications can be free proofing and customized services! It is mainly used for arc-shaped anti-loose installation. Generally, this washer is not used for flat surfaces!

Passed by BV-TS22163 International Railway Industry Standard Certificate and TUV-IATF16949 Quality System Certificate

- To produce products without quality is to produce useless garbage!



GB955/DIN137B Mechanical Standard Corrugated Washer



Stainless steel corrugated washer



Carbon steel black corrugated washer



Executive standard: GB955-DIN137B mechanical industry standard corrugated washer

Supply specifications: (M3-M52)

Adopting SUS304.316/S60C.65MN, etc. high-quality steel. It is subject to strict hardening and blackening surface treatment! Relevant type test report can be provided! At present, 80% of machinery industry users in the Pearl River Delta region use SZJYD brand saddle washers! The regular products are in stock, special specifications can be free proofing and customized services! The mechanical industry standard corrugated washer is used to replace the traditional spring washer.

Passed by BV-TS22163 International Railway Industry Standard Certificate and TUV-IATF16949 Quality System Certificate



DIN137/JB7590 Corrugated Washer for Motor

Stainless steel corrugated washer



Spring steel black corrugated washer



Executive standard: JB7590/DIN137

Supply specifications: (M8-M200)

Adopting SUS304.316/65MN.60si2mn.51CrAv4, etc. high-quality steel. It is subject to strict hardening and black phosphating surface treatment! The dynamic and static load performance testing and other related test reports can be provided for corrugated washers!

Passed by BV-TS22163 International Railway Industry Standard Certificate and TS16949 Quality System Certificate



Q673 Car Buckle Series Products



Q673 automotive standard fastener, it is widely used in the automotive industry, the materials include 65MN and SUS420J2. SUS301 etc., and the spring steel material is subject to mechanical galvanized, Dacromet and other surface treatments! Main specifications: M6-M36.



SN60075-DK Gear Fastener Series



SN60075-AB type DK gear fastener, it is widely used in the automotive industry, adopting 65MN spring steel, and is subject to phosphating black or zinc-aluminum coating Dacromet treatment after elastic hardening! The commonly used specifications of M4-M16 are in stock. It adopts the progressive mold stamping process and features high efficiency and low cost. It boasts obvious cost advantage!



Concave and Convex Washer Fastener Series



concave and convex washer is also called fisheye washer! Adopting SUS304 stainless steel, it is used for anti-loosening assembly with countersunk head screw. The commonly used specifications of M4-M18 are in stock. Adopting stamped with progressive mold, and features high efficiency and low cost. It boasts industry advantage!



JIS2804 Washer with Split

SUS304.316 washer with split



S60C.65MN washer with split



JIS2804-(M0.6-M24)
SUS304.316/S60C.65MN
hardened black, the commonly
used products of the Japanese
standard are in stock, the products
are made with precision mold and
feature perfect quality!



GB896 Washer with Split

SUS304.316 washer with split



S60C.65MN washer with split



GB896-(M1.2—M15)
SUS304.316/S60C.65MN
hardened black, This kind of
retaining ring has strong
versatility, most of them are in
stock. The products are made
with precision mold without burr!



DIN6799 Washer with Split

SUS304.316 washer with split



S60C.65MN washer with split



DIN6799-(M0.8-M30)
SUS304.316/S60C.65MN
hardened black. The products
are made with precision mold
without burr! This kind of
washer has strong versatility,
most of them are in stock.



C-type Washer with Split

Spring steel C-type washer with split



Stainless steel C-type washer with split

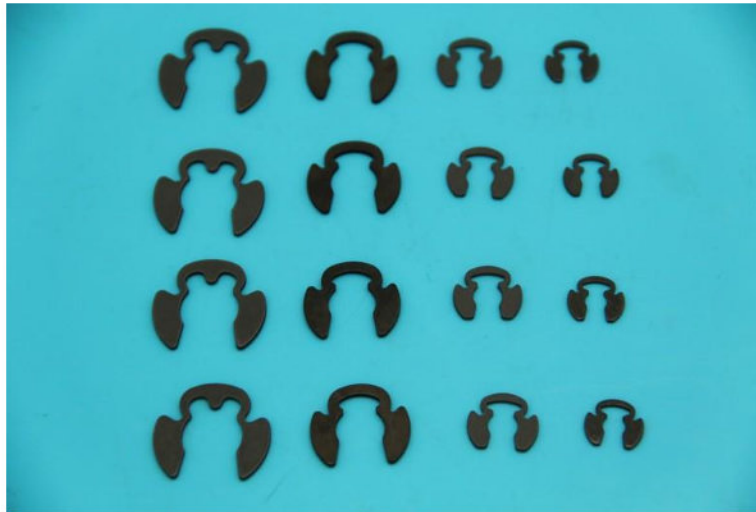


5103-(12-81)
SUS304.316/S60C.65MN
hardened black. This type of
washer is rarely used, usually it
is customized



K-type/U-type - Washer with Split

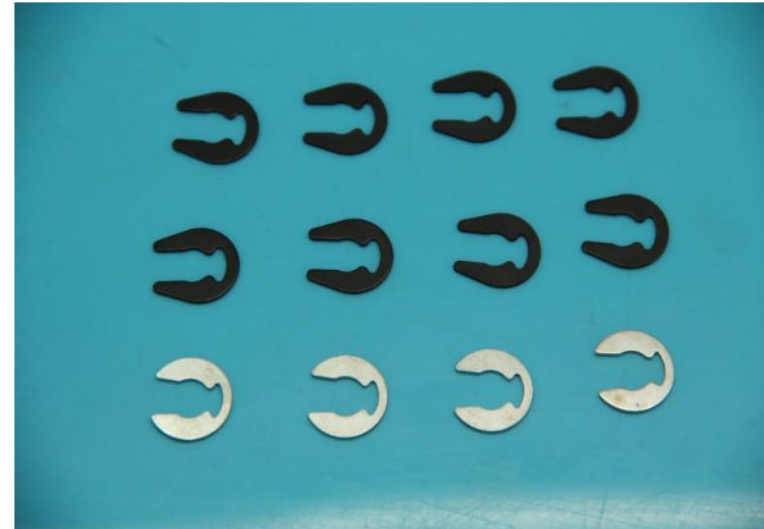
K-type washer with split



T5304-(15-200)

Main materials: S60C.65MN hardened black surface treatment. This type of washer is rarely used, usually it is customized

U-type washer with split



UTW-(M3.2-M8)

Main materials: S60C.65MN hardened black surface treatment. This type of washer is rarely used, usually it is customized,

Contact Us

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