



Carbon Steel Custom Flange Lock Nut with Anti-Loosening Design for Heavy Industry

Our Product Introduction

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: FineExpress
- Certification: ISO9001|ISO14001| IATF16949
- Model Number: FineExpress custom Nut
- Minimum Order Quantity: 50000
- Price: \$0.08/pieces 1000-9999 pieces
- Packaging Details: 1.1000pcs / plastic bag,20kgs/ carton ,then put on the wood pallet ,
2.Carton size:28cm*18cm*13cm,
3.Wood pallet
size:118cm*113cm,Weight:700~800Kg
Bulk:0.8 cubic
4.The weight of 20 FT Container:20~25 Tons
5,As your requirements
- Delivery Time: 7~15 Working Day
- Payment Terms: T/T,L/C,D/A,D/P
- Supply Ability: 500000000 Piece/Pieces per Week



Product Specification

- Finish: ZINC PLATED, Passivated, Chrome Plated, Nickel Plated, Polished, Custom
- Measurement System: Imperial (Inch)
- Application: Heavy Industry, Mining, Water Treatment, Healthcare, Retail Industry, Food & Beverage, General Industry, Oil & Gas, Automotive Industry
- Standard: DIN
- Size: M1~M16
- Grade: 6.8/ 8.8/ 10.9/ 12.9
- Delivery Time: In Stock 5~7 Working Days, Customized 15~25 Working Days
- Service: OEM Customized Services
- Package: Small Packing+Carton Packing+Pallet
- Certificate: ISO9001:2015, SGS, RoHs, MTC
- MOQ: 1 Piece In Stock, 30,000 Pcs Customized
- Part: Shenzhen, China



More Images



Product Description

Carbon Steel Custom Flange Lock Nut with Anti-Loosening Design

Our Carbon Steel Custom Flange Lock Nut is engineered to deliver unmatched reliability in high-vibration environments. Featuring a built-in flange for load distribution and an anti-loosening mechanism, this nut ensures permanent, secure fastening for critical assemblies in automotive, machinery, construction, and aerospace applications. Crafted from high-grade carbon steel with customizable coatings, it combines durability, precision, and cost-effectiveness.



Product Overview

Our Carbon Steel Custom Flange Lock Nut is engineered to deliver unmatched reliability in high-vibration environments. Featuring a built-in flange for load distribution and an anti-loosening mechanism, this nut ensures permanent, secure fastening for critical assemblies in automotive, machinery, construction, and aerospace applications. Crafted from high-grade carbon steel with customizable coatings, it combines durability, precision, and cost-effectiveness.

Key Features

- Anti-Loosening Technology:** Nylon insert or deformed threads for friction-based or metal-to-metal locking
- Serrated Flange:** Bites into surfaces to resist rotation under dynamic loads
- Integrated Washer Function:** Eliminates need for separate washers, reducing assembly time
- Load Distribution:** Reduces surface pressure and prevents damage to soft materials
- High-Strength Carbon Steel:** Grade 8/10.9 with tensile strength up to 1,040 MPa
- Surface Treatments:** Zinc-plated, hot-dip galvanized, or black oxide finishes for corrosion resistance
- Customizable Specifications:** Sizes M6-M24 (metric) or 1/4"-1" (imperial) with various thread pitches
- Certifications:** ISO 4161, ASTM A563, RoHS, and ISO 9001 compliant

**FINEX | Fine and Express
FASTENERS** 

[Click Here To Start Customizing](#)

Customizable Hole Shape



Pozi



Phillips



Anti-theft
Triangle



Slotted



Hex Socket



Torx



Torx-internal
Tamper proof pin



H type
anti theft



Tri-wing



Two-Hole
Tamper proof



One way
anti theft



Square Slot
Combination



Phillips Slot
Combination



Slot 6 Lobe
Combination



Tri-wing internal
Tamper proof pin

**FINEX | Fine and Express
FASTENERS** 

[Click Here To Start Customizing](#)

Surface Processing and Color Customization



Bule Zinc



Yellow Zinc



White Zinc



Black Zinc



Nickel Plated



Black Oxide



Anodizing



Dacromet



Black
Electrophoresis



Antique Bronze



Green



Baking Finish

**FINEX | Fine and Express
FASTENERS**   

[Click Here To Start Customizing](#)
Customizable Thread Shape



**FINEX | Fine and Express
FASTENERS**   

[Click Here To Start Customizing](#)
Customizable Head Shape



FINEX | Fine and Express FASTENERS

OEM
ORIGINAL
EQUIPMENT
MANUFACTURER

ODM
ORIGINAL
DESIGN
MANUFACTURER

What We Produce is Not Just a Screw. We Provide a Guarantee of Secure Fastening



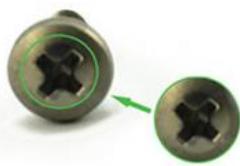
Specifications

Available Material	Stainless Steel: SS303, SS304, SS316, SS410, SS420 Carbon Steel: C1006, C1010, C1018, C1022, C1035K, C1045 Brass: C3602, C3604, Hpb59, Hpb62, Hpb65, Hpb58, Hpb70 Aluminum: Al6061, Al6063 etc Custom materials available per requirements
Head Type	CSK Head, Pan Head, Truss Head, Hexagon Head, Round Head, Oval Head, Button Head, Cap Head, Cheese Head, etc.
Hardness	Carbon Steel: HRC 28-35, HV450-700 Alloy Steel: HRC 32-39 (grade 10.9), HRC 39-44 (grade 12.9)
Finish	Zinc plated, Nickel plated, Bronze, Copper, Phosphate, Oxidation black, Passivation, Tin, Dacromet, Gold, Chrome, Silver, Phosphorization, Zinc-nickel alloy plated, etc.
Sample Available	Free samples available with existing tooling (customer pays freight cost)
Delivery Time	Samples: 3-5 working days, Production: 20-25 working days
Pricing Term	EXW Dongguan (FCA), FOB, CIF, CNF, DDU, etc.
Packing	Bulk in PE bag or small boxes, then in carton, pallet
Payment Term	TT (30% deposit, balance before delivery), L/C, Western Union, PayPal, etc.
Management System	ISO9001:2015
Certificate	ISO, ROHS

Why Choose Us

We specialize in manufacturing high-quality fasteners and precision components with extensive customization options, rigorous quality control, and reliable delivery services.

NO1. Drive comparison



VS



Our screws: cross recess drive remains intact after repeatedly used.

Bad screws on the market: cross recess drive cannot be used after repeatedly used, they may slip or tear out the Philips screw head.

NO2. Torque comparison



VS



Our screws: Nylon patch is high quality, prevailing-torque is more

Bad screws on the market: prevailing-torque is 0 after it is screwed in and out for five times, nylon patch will peel off.

NO3. Screw Plating Comparison



VS



Our screws: good finish, clear thread, even coating, bright appearance.

Bad screws on the market: bad finish, uneven coating, thread is oxidized, the finish is blacked.

NO4. Screw Material Comparison



VS



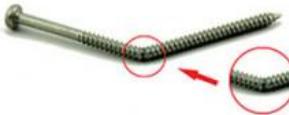
Our screws: we use quality carbon steel material, Chemical Element content in Steel meets the requirement of ISO standard, they won't be broken after 90° bent, high strength, good toughness requirement of ISO

Bad screws on the market: bad carbon steel material, Chemical Element content in Steel doesn't meet the requirement of ISO standard, they will be easily broken after 90° bent, high strength and bad toughness.

NO5. Mechanical Properties comparison



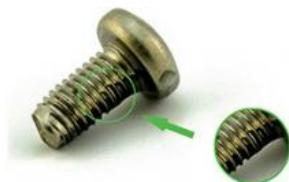
VS



Our self tapping screws: our screws have high strength, enough hardness, good toughness after heat treated, they won't be broken after bent.

Bad screws on the market: they have high strength and bad toughness, thread will easily be broken, because the screws are not tempered.

NO6. Corrosion Resistance Comparison of SUS304



VS



Our SUS304 screws: nickel chemical element content won't be less than 8, meets ISO requirement. The finish won't be oxidized, rusted and has good anti-corrosion capacity standard, they won't be broken after 90° bent, high strength, good toughness.

SUS304 screws on the market: nickel chemical element content will be less than 8, even doesn't have nickel plated, which doesn't meet ISO requirement. The finish will be oxidized, rusted and lose anti-corrosion capacity.

Company Profile

We are a professional manufacturer with advanced equipment and experienced workforce dedicated to producing high-quality fastening solutions.

FINEX

— 20 YEARS
Non-standard Fasteners
Customization Experience

+86-13527934468
alianchen@finexfastener.com

Contact us



Partners and Exhibitions





Frequently Asked Questions

Q1: What is your main products and material supply?

A1: Our main products are Electronic screws, Sems screws, Tapping screws, Chicago screws, Shoulder screws, Special Non-standard studs, Turning parts and High-end precision complex CNC Machining parts.

A2: Carbon Steel, Alloy Steel, Aluminum alloy, Stainless Steel, Brass, Copper, Titanium alloy or according to your requirement.

Q2: When can I get the price?

A: We usually offer you a quotation within 12 hours, and special offers within 24 hours. For urgent cases, please contact us directly by phone or email.

Q3: What about the transportation and delivery date?

A: For orders over 80kg, we use shipment (20-30 days). For orders under 80kg or urgent requirements, we use air express (3-5 days).

Q4: What's your packing? What to do in case of damaged goods during transport?

A1: Normal packing is bulk in cartons (less than 20 kgs/carton, 48 cartons/pallet). Custom packing available per requirements.

A2: We recommend checking goods upon receipt. If there is any transport damage or quality issue, please take detailed pictures and contact us immediately for resolution.

Q5: Can I get discounts?

A: Yes, we offer reasonable discounts for large orders and frequent customers.

Q6: Do you have enough capacity?

A: We have new imported equipment and skilled workers with over 10 years of experience. Production capacity is 30 million pieces per month with sufficient funds to ensure normal factory operations.



Finexpress Precision Manufacturing (dongguan) Co., Ltd



+86-13527934468



alianchen@finexpressfastener.com



metalscrewfastener.com

Building 2, No. 129 Xinmalian Xinma Road, Dalang Town, Dongguan, Guangdong, China