

## 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
- Port: Shenzhen, Guangzhou



#### 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

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## 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





**Pozi**



**Phillips**



**Anti-theft  
Triangle**



**Slotted**



**Hex Socket**



**Torx**



**Torx-internal  
Tamber proof pin**



**H type  
anti theft**



**Tri-wing**



**Two-Hole  
Tamber proof**



**One way  
anti theft**



**Square Slot  
Combination**



**Phillips Slot  
Combination**



**Slot 6 Lobe  
Combination**



**Tri-wing internal  
Tamber proof pin**



**Blue 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

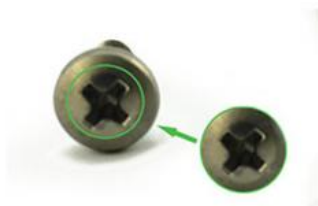
<b>Available Material</b>	Stainless Steel: SS303, SS304, SS316, SS410, SS420 Carbon Steel: C1006, C1010, C1018, C1022, C1035K, C1045 Brass: C3602, C3604, Hpb59, Hpb62, Hpb65, Hpb58, Hpb70 Aluminum: Al6061, Al6063 etc Custom materials available per requirements
<b>Head Type</b>	CSK Head, Pan Head, Truss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



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

VS



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



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

VS



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



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

VS



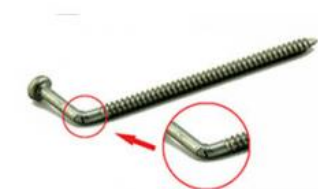
Bad screws on the market: bad finish, uneven coating, thread is oxidized, the finish is blacked.

### NO4.Screw Material Comparison



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

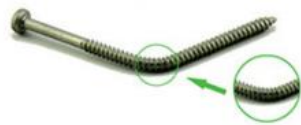
VS



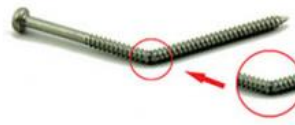
Bad screws on the market: bad carbon steel material, Chemical Element content in Steel doesn't meet the requirement of ISO standard, they will be easily broken after 90° bent, high strength and bad toughness.



### 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.



**20 YEARS**  
**Non-standard Fasteners**  
**Customization Experience**

+86-13527934468  
allan.chen@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.



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