

Metric Measurement System Grade 12.9 Black Concave End Hexagon Socket Set Screws ISO9001 2015 Certified

Our Product Introduction

Basic Information

- Place of Origin: Guangdong, China
- Brand Name: FinExpress
- Model Number: FinExpress Set Screws
- Minimum Order Quantity: 30000
- Price: \$0.01/pieces 10000-29999 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: L/C,D/A,D/P,T/T
- Supply Ability: 500000000 Piece/Pieces per Week



Product Specification

- Finish: Plain, Black Oxide, ZINC PLATED
- Material: Steel
- Measurement System: Metric
- Head Style: Headless,flat Point, Cone,Ball Point
- Standard: Non-standard
- MOQ: 1 Piece In Stock, 30,000 Pcs Customized
- Package: Small Packing+Carton Packing+Pallet
- Delivery Time: In Stock 5~7 Working Days, Customized 15~25 Working Days
- Service: OEM ODM Custom Service
- Length: 1mm~500mm
- Certificate: ISO9001:2015, SGS, RoHs
- Drive Type: Socket / Slotted
- Highlight: **Grade 12.9 Hexagon Socket Set Screws, Concave End Socket Set Screws**



More Images



Product Description

Grade 12.9 Black Concave End Hexagon Socket Set Screws

FINEX | Fine and Express FASTENERS



Product Overview

Our Grade 12.9 Black Concave End Hexagon Socket Set Screws are engineered for extreme durability and precision in high-stress environments. Featuring a hexagon socket (Allen key) drive, concave (cup) point, and a black protective coating, these set screws combine exceptional tensile strength with corrosion resistance.

Made from Grade 12.9 carbon steel (the highest strength class in ISO 898-1), they are ideal for securing gears, pulleys, shafts, and other critical components in machinery, automotive systems, and industrial equipment. The black finish enhances aesthetics while providing an additional barrier against moisture and abrasion.

Technical Specifications

Parameter	Details
Grade	12.9 (Tensile Strength: 1200 MPa)
Head Type	Hexagon Socket (Allen) Head
Point Type	Concave (Cup) Point
Material	High-Strength Carbon Steel (Grade 12.9)
Surface Finish	Black Oxide or Electroless Nickel Coating
Diameter Range	M3–M30
Length Range	6mm–150mm
Applications	Automotive, industrial machinery, aerospace, robotics, and heavy equipment

Applications

These set screws are widely used in:

Automotive Manufacturing: Securing transmission components, bearings, and drive shafts.

Industrial Machinery: Fastening pulleys, couplings, and motor parts under high torque.

Aerospace & Defense: Critical fastening in aircraft engines, landing gear, and hydraulic systems.

Heavy Equipment: For construction machinery, mining tools, and agricultural equipment.

Automation & Robotics: Ensuring vibration-resistant fastening in robotic arms and conveyor systems.

Why Choose Our Grade 12.9 Set Screws?

Unmatched Strength: Grade 12.9 ensures maximum load-bearing capacity and fatigue resistance.

Corrosion Protection: Black coating extends service life in humid, chemical, or outdoor environments.

Precision Engineering: ISO/DIN-compliant dimensions for seamless integration into global projects.

Custom Solutions: Tailor diameters, lengths, and finishes to meet your exact specifications.

Cost-Effective: Competitive pricing with bulk order discounts (minimum 500 pieces).

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



Blue Zinc



Yellow Zinc



White Zinc



Black Zinc



Nickel Plated



Black Oxide



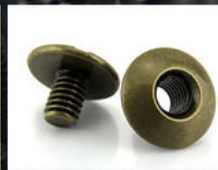
Anodizing



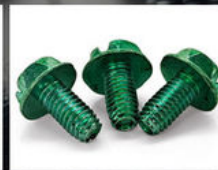
Dacromet



**Black
Electrophoresis**



Antique Bronze



Green



Baking Finish



**Type A
Self Tapping Thread**



**Type B
Self Tapping Thread**



**Type Tek
Self Drilling Thread**



**PT
Plastic Thread**



Hi-Lo Thread



Cutting Thread



**Trilobular
Machine Thread**



**Type F
Machine Thread**



**Dog Point
Machine Thread**



Machine Thread



**Self Drilling Thread
with wing**





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



Specification

More Detail Informations

Available Material

- 1.Stainless Steel: SS303, SS304, SS316, SS410, SS420;
2. Carbon steel: C1006, C1010, C1018, C1022, C1035K, C1045;
3. Brass: C3602, C3604, Hpb59, Hpb62, Hpb65, Hpb58, Hpb70 ;
4. Aluminum: Al6061, Al6063 etc
or as your 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(grade10.9) HRC:39~44(grade12.9)
Finish	Zinc plated, Nickel plated, Bronze, Copper,Phosphate, Oxidation black, Passivation, Tin, Dacromet, Gold, Chrome, Silver, Phosphorization,Zinc-nickel alloy plated etc.
Sample Available	The sample is free of charge if we have the existing tooling,you only need to pay for the freight cost
Delivery time	Samples time 3-5 working days, Lead time 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% in advance as deposit, balance before delivery) , L/C, Western Union,PayPal etc
Management system	ISO9001:2015
Certificate	ISO,ROHS

Why Choose Us

NO1.Drive compariason



VS



NO2.Torque comparison



VS



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



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

VS



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



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.

VS



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.

FINEX

— 20 YEARS

Non-standard Fasteners Customization Experience

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Contact us



Partners and Exhibitions





FAQ

Q1: What is your main products and material supply?

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

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 the special offer is not more than 24 hours. Any urgent cases, please contact us directly by phone or send email to us.

Q3: What about the transportation and delivery date?

A: If the weight of goods more than 80kg, Normally we use shipment to transport the orders. It is about 20-30 days. If the weight of goods less than 80kg, or there are urgent, we can send the goods via air express, It is 3-5 days.

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

A1: Our Normal packing is bulking in Cartons, less than 20 kgs/carton, 48 cartons / pallet. We also can pack products according to your requirement.

A2: To avoid any subsequent trouble regarding quality issue, we suggest you check the goods once you receive them. If there is any transport damaged or quality issue, don't forget take the detail pictures and contact us as soon as possible, we will properly handle it to make sure your loss to reduce to the smallest.

Q5: Can I get discounts?

A: Yes, for big order, frequent customers, we give reasonable discounts.

Q6: Do you have enough capacity?

A: Our production equipment is a new imported equipment. We have a group of skilled workers who have been working for more than 10 years. Their production experience is very rich and their skills are very skilled. The screws can be 30 million pcs/month. We have sufficient funds to ensure the normal operation of the factory.



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