

Manufacturers & Stockists of Nickel Alloy, Titanium Alloys, Special Metals & Stainless Steel Products

NUTS

Jade Special Metals offers a comprehensive range of nuts designed for industrial and structural applications. **Hex nuts** feature six flat sides for a secure grip and easy tightening. **Dome nuts** have a rounded top to protect threads and provide a polished appearance. **Nylock nuts** include a nylon insert, offering vibration resistance and preventing loosening. **Thin nuts**, also known as **jam nuts**, are slim and ideal for locking applications in compact spaces. Manufactured in ferrous and non-ferrous metals, including stainless steel, nickel alloys, and copper alloys, our products comply with ASTM, ASME, PN, and EN standards for durability and precision.



SPECIFICATIONS

- **Nut Type:** Hex Nut, Heavy Hex Nut, Square Nut, Jam Nut, Nylock Nut, Dome Nut, Flange Nut, Wing Nut, Cap Nut, Coupling Nut, Castle Nut / Slotted Nut, T-Nut, Self Locking Nut
- **Forming:** Hot Forged or Cold Forged
- **Metric Size:** M2 to M100
- **Inch Size:** 1/8" to 4"
- **Threads:** UNC, UNF, BSW, ISO, ACME
- **Standards:** ASTM, ASME, BS, ISO, DIN, DIN-EN, UNI
- **Heat Treatments:** Annealing, Stress Relieving, Case Hardening, Quenching & Tempering
- **Surface Coatings:** Xylan, Xylar, PTFE, Zinc Plating, Phosphating, Galvanizing, Hot Dip Galvanizing (HDG), Nickel Plating, Zn-Ni Plating, Chrome Plating, Cadmium Plating, Zinc Flake Coating

HEX NUTS

Hex Nuts by **Jade Special Metals** are versatile six-sided fasteners designed for secure and durable connections in industrial, structural, and mechanical applications. Manufactured in **ferrous metals**, **stainless steel**, **nickel alloys** (Titanium, Inconel, Hastelloy), **copper alloys**, and **cupro-nickel alloys**, they provide exceptional strength and corrosion resistance. Hex nuts are compatible with bolts, screws, and studs, ensuring tight, vibration-resistant assemblies. Available in **ASTM**, **ASME**, **PN**, and **EN** standards, they support heavy loads and high-pressure environments. Precision-engineered with standard and fine threading options, they offer easy installation and removal. Custom sizes and coatings are also available to meet specific project requirements.



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HEAVY HEX NUTS

Heavy Hex Nuts by Jade Special Metals are robust, six-sided fasteners with a larger width and thickness than standard hex nuts, providing superior strength for high-pressure and heavy-load applications. Manufactured from **ferrous metals, stainless steel, nickel alloys** (Titanium, Inconel, Hastelloy), **copper alloys**, and **cupro-nickel alloys**, they ensure excellent durability and corrosion resistance. Designed for use in structural, industrial, and high-temperature environments, these nuts meet **ASTM, ASME, PN, and EN** standards. Available in coarse and fine threading, they are compatible with large-diameter bolts and studs. Custom sizes, coatings, and finishes are offered to meet specialized project requirements.



SQUARE NUTS

Square nuts by Jade Special Metals are high-quality fasteners designed for optimal **strength and durability**. Manufactured from a variety of materials, including **ferrous and non-ferrous metals** such as **stainless steel, brass**, and custom alloys, they provide excellent performance in demanding applications. Our square nuts are **precision-engineered** to fit standard **bolt threads**, adhering to **ASTM, ASME**, and other relevant standards. These nuts are ideal for use in **structural systems, machinery**, and **heavy-duty applications** where secure fastening is critical. With superior resistance to **wear and corrosion**, Jade Special Metals' square nuts offer **reliability**, long-term performance, and **customization options** per customer requirements.



JAM NUTS / LOW NUTS

Jam nuts (or low nuts) by Jade Special Metals are compact, high-strength fasteners designed for securing bolts and preventing loosening due to vibration or external forces. Made from a variety of **ferrous and non-ferrous materials**, including **stainless steel, brass**, and custom alloys, these nuts provide **enhanced durability and corrosion resistance**. Jam nuts are engineered to fit **standard bolt threads** and adhere to **ASTM, ASME**, and other relevant standards. Commonly used in **machinery, construction**, and **automotive applications**, they are ideal for **tight spaces and heavy-duty environments**. Jade Special Metals' jam nuts offer **reliable performance** and **customized solutions** to meet specific customer needs.



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NYLOCK NUTS

Nylock nuts by Jade Special Metals are **self-locking fasteners** designed to prevent loosening under vibration and dynamic loads. Featuring a **nylon insert** that grips the bolt threads, these nuts offer superior **torque resistance** and secure fastening. Made from a variety of **ferrous and non-ferrous materials**, including **stainless steel, brass, and custom alloys**, Nylock nuts provide **corrosion resistance** and **long-term durability**. They are manufactured to meet **ASTM, ASME, and other relevant standards**, making them suitable for **machinery, automotive, aerospace, and industrial applications**. Jade Special Metals' Nylock nuts offer **reliable performance, vibration resistance, and customized solutions** to meet specific requirements.



DOME NUTS

Dome nuts by Jade Special Metals are **rounded, closed-end fasteners** designed to provide a neat, aesthetically pleasing finish while offering **protection** to the bolt threads. Made from high-quality **ferrous and non-ferrous materials**, including **stainless steel, brass, and custom alloys**, they provide excellent **corrosion resistance** and **durability**. Dome nuts are commonly used in **automotive, construction, and machinery applications**, offering both a **functional and decorative solution**. Manufactured to meet **ASTM, ASME, and other relevant standards**, Jade Special Metals' dome nuts ensure **secure fastening, protection from contaminants, and customized solutions** to suit specific customer needs.



FLANGE NUTS

Flange nuts by Jade Special Metals are **high-strength fasteners** designed with an integrated **flange** that provides additional **surface area** for better load distribution and **prevents damage** to the mating surface. Made from a variety of **ferrous and non-ferrous materials**, including **stainless steel, brass, and custom alloys**, they offer superior **corrosion resistance** and **durability**. Flange nuts are commonly used in **machinery, automotive, and structural applications** where a **secure grip and increased stability** are required. Manufactured to meet **ASTM, ASME, and other relevant standards**, Jade Special Metals' flange nuts offer **reliable performance, enhanced grip, and customized solutions** for various applications.



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WING NUTS

Wing nuts by Jade Special Metals are easily adjustable fasteners designed with wing-like extensions for manual tightening or loosening without the need for tools. Made from high-quality ferrous and non-ferrous materials, including stainless steel, brass, and custom alloys, these nuts provide reliable performance, corrosion resistance, and durability. Wing nuts are ideal for applications requiring frequent assembly and disassembly, such as in machinery, automotive, electronics, and maintenance settings. Manufactured to meet ASTM, ASME, and other relevant standards, Jade Special Metals' wing nuts offer easy handling, quick fastening, and customized solutions for diverse industrial and commercial needs.



COUPLING NUTS

Coupling nuts by Jade Special Metals are long, cylindrical fasteners designed to connect or extend bolts or threaded rods. Made from high-quality ferrous and non-ferrous materials, including stainless steel, brass, and custom alloys, they provide strength, reliability, and corrosion resistance. Coupling nuts are commonly used in machinery, construction, and plumbing applications where secure, extended connections are needed. Manufactured to meet ASTM, ASME, and other relevant standards, Jade Special Metals' coupling nuts offer precision threading, versatility, and customized solutions to meet specific customer requirements, ensuring long-lasting performance in various industrial applications.



SLOTTED NUTS / CASTLE NUTS

Slotted nuts (or castle nuts) by Jade Special Metals are designed with slots on their outer circumference to secure cotter pins or safety pins, ensuring a tight fit and preventing loosening under vibration or stress. Made from high-quality ferrous and non-ferrous materials, including stainless steel, brass, and custom alloys, they provide excellent corrosion resistance, durability, and secure fastening. Commonly used in automotive, machinery, and aerospace applications, slotted nuts are ideal for critical and safety-sensitive components. Manufactured to meet ASTM, ASME, and other relevant standards, Jade Special Metals' slotted nuts offer reliable performance, secure connections, and customized solutions to meet specific application needs.



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T-NUTS

T-nuts by Jade Special Metals are specialized fasteners designed with a T-shaped profile that allows them to easily fit into wood, metal, or plastic materials. They provide a strong, secure anchor for bolts or screws, offering a flush finish and resistance to loosening. Manufactured from high-quality ferrous and non-ferrous materials, including stainless steel, brass, and custom alloys, T-nuts offer corrosion resistance, strength, and durability. Commonly used in furniture, machinery, and construction, they provide quick assembly and strong fastening. Manufactured to meet ASTM, ASME, and other relevant standards, Jade Special Metals' T-nuts offer reliable performance and customized solutions for various applications.



SELF LOCKING NUTS

Self-locking nuts by Jade Special Metals are designed to prevent loosening under vibration and dynamic loads without the need for additional locking devices. These nuts feature an integrated locking mechanism, such as a nylon insert or a deformed thread, to provide a secure and vibration-resistant connection. Made from high-quality ferrous and non-ferrous materials, including stainless steel, brass, and custom alloys, self-locking nuts offer corrosion resistance, strength, and durability. They are commonly used in automotive, machinery, aerospace, and construction applications. Manufactured to meet ASTM, ASME, and other relevant standards, Jade Special Metals' self-locking nuts provide reliable performance and customized solutions for various industrial and commercial needs.



CAGE NUTS

Cage nuts by Jade Special Metals are fastening solutions designed to provide secure connections in rack-mount or panel applications. These nuts are encased in a metal cage, which helps them snap into place in pre-punched holes, offering quick installation and a secure fit. Made from high-quality ferrous and non-ferrous materials, including stainless steel, brass, and custom alloys, cage nuts offer corrosion resistance, strength, and reliability. They are commonly used in electrical enclosures, servers, and telecommunication equipment. Manufactured to meet ASTM, ASME, and other relevant standards, Jade Special Metals' cage nuts provide easy installation, secure fastening, and customized solutions for a wide range of applications.



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SPRING NUTS

Spring nuts by Jade Special Metals are flexible fasteners designed to provide a strong, vibration-resistant connection. Featuring a spring mechanism, they automatically adjust to the required thread size, ensuring a secure fit even in fluctuating conditions. Made from high-quality ferrous and non-ferrous materials, including stainless steel, brass, and custom alloys, spring nuts offer corrosion resistance, strength, and durability. They are commonly used in machinery, automotive, and electrical applications where flexibility and secure fastening are crucial. Manufactured to meet ASTM, ASME, and other relevant standards, Jade Special Metals' spring nuts provide reliable performance, vibration resistance, and customized solutions for various industries.



DUPLEX & SUPER DUPLEX MATERIAL GRADES

DUPLEX 31803 UNS: S31803 Werkstoff: 1.4462	DUPLEX 32205 UNS: S32205 Werkstoff: 1.4462	SUPER DUPLEX 32750 UNS: S32750 Werkstoff: 1.4410
SUPER DUPLEX 32760 UNS: S32760 Werkstoff: 1.4501	SUPER DUPLEX 2507 UNS: S25007 Werkstoff: 1.4410	

STAINLESS STEEL MATERIAL GRADES

STAINLESS STEEL 304 UNS: S30400 Werkstoff: 1.4301	STAINLESS STEEL 304L UNS: S30403 Werkstoff: 1.4306	STAINLESS STEEL 304H UNS: S30409 Werkstoff: 1.4948
STAINLESS STEEL 316 UNS: S31600 Werkstoff: 1.4401	STAINLESS STEEL 316L UNS: S31603 Werkstoff: 1.4404	STAINLESS STEEL 316H UNS: S31609 Werkstoff: 1.4919
STAINLESS STEEL 309 UNS: S30900 Werkstoff: 1.4828	STAINLESS STEEL 310 UNS: S31000 Werkstoff: 1.4840	STAINLESS STEEL 310S UNS: S31008 Werkstoff: 1.4845
STAINLESS STEEL 317L UNS: S31703 Werkstoff: 1.4438	STAINLESS STEEL 347 UNS: S34700 Werkstoff: 1.4550	STAINLESS STEEL 347H UNS: S34709 Werkstoff: 1.4961
STAINLESS STEEL 409 UNS: S40900 Werkstoff: 1.4512	STAINLESS STEEL 409M UNS: S40977 Werkstoff: 1.4513	STAINLESS STEEL 410M UNS: S41008 Werkstoff: 1.4000
STAINLESS STEEL 446 UNS: S44600 Werkstoff: 1.4749	STAINLESS STEEL 904L UNS: N08904 Werkstoff: 1.4539	

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NICKEL ALLOYS MATERIAL GRADES

HASTELLOY C22 UNS: N06022 Werkstoff: 2.4602	HASTELLOY C276 UNS: N10276 Werkstoff: 2.4819	HASTELLOY B2 UNS: N10665 Werkstoff: 2.4617
NICKEL 200 UNS: N02200 Werkstoff: 2.4060	NICKEL 201 UNS: N02201 Werkstoff: 2.4068	
MONEL 400 UNS: N04400 Werkstoff: 2.4360	MONEL K500 UNS: N05500 Werkstoff: 2.4375	
INCONEL 600 UNS: N06600 Werkstoff: 2.4816	INCONEL 601 UNS: N06601 Werkstoff: 2.4851	INCONEL 625 UNS: N06625 Werkstoff: 2.4856
INCONEL 718 UNS: N07718 Werkstoff: 2.4668	INCONEL 800 UNS: N08800 Werkstoff: 1.4876	INCONEL 800H UNS: N08810 Werkstoff: 1.4958
INCONEL 617 UNS: N06617 Werkstoff: 2.4663	INCONEL X-750 UNS: N07750 Werkstoff: 2.4669	INCONEL 800HT UNS: N08811 Werkstoff: 1.4959
INCONEL 825 UNS: N08825 Werkstoff: 2.4858	ALLOY 20 UNS: N08020 Werkstoff: 2.4660	
TITANIUM GRADE 2 UNS: R50400 Werkstoff: 3.7025	TITANIUM GRADE 5 UNS: R56400 Werkstoff: 3.7165	TITANIUM GRADE 7 UNS: R52400 Werkstoff: 3.7235

ASTM / ASME MATERIAL GRADES

A194 GRADE 2H	A194 GRADE 2HM	A194 GRADE 4
A194 GRADE 4L	A194 GRADE 7	A194 GRADE 7M
A194 GRADE 7ML	A194 GRADE 7L	A194 GRADE 6
A194 GRADE 8	A194 GRADE 8A	A194 GRADE 8C
A194 GRADE 8CA	A194 GRADE 8M	A194 GRADE 8MA
A194 GRADE 8T	A194 GRADE 8TA	A194 GRADE 8F
A194 GRADE 8FA	A194 GRADE 8R	A194 GRADE 8RA
A194 GRADE 8S	A194 GRADE 8SA	A194 GRADE 8MLCUN
A194 GRADE 8MLCUNA	A194 GRADE 16	

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ASTM A563 GRADE O	ASTM A563 GRADE A	ASTM A563 GRADE B
ASTM A563 GRADE C	ASTM A563 GRADE D	ASTM A563 GRADE DH
ASTM A563 GRADE DH3		
ASTM F594 GRADE A	ASTM F594 GRADE B	ASTM F594 GRADE C
ASTM F594 GRADE D	ASTM F594 GRADE E	ASTM F594 GRADE F
ASTM F594 GRADE G	ASTM F594 GRADE H	ASTM F594 GRADE J
ASTM F594 GRADE K	ASTM F594 GRADE L	ASTM F594 GRADE M
ASTM F594 GRADE N	ASTM F594 GRADE V	ASTM F594 GRADE W
ASTM F594 GRADE P	ASTM F594 GRADE R	ASTM F594 GRADE S
ASTM F594 GRADE T	ASTM F594 GRADE U	
SAE J995 GRADE 2	SAE J995 GRADE 5	SAE J995 GRADE 8
ISO 898-2 CL.4	ISO 898-2 CL.5	ISO 898-2 CL.8
ISO 898-2 CL.10	ISO 898-2 CL.12	



We offer a wide range of Material Grades as per SAE / EN / DIN Etc. At best Market prices in India. To know more about complete product details please feel free to contact us on sales@jadealloys.com or call us on +91 9987685906