

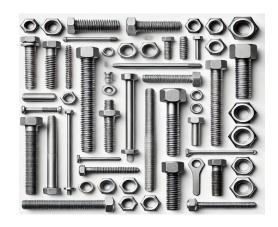






BOLTS

Jade Special Metals is a trusted manufacturer of premium hex bolts, serving industries like oil & gas, construction, power generation, and aerospace. We produce hex bolts in carbon steel, alloy steel, stainless steel, and specialty metals like Inconel, Hastelloy, and Titanium, adhering to ASTM, ASME, DIN, and ISO standards. Our products undergo strict quality checks, ensuring durability and performance in demanding environments. We offer custom-engineered hex bolts based on client specifications, providing tailored fastening solutions. With expert technical support, on-time delivery, and global supply capabilities, Jade Special Metals is your reliable partner for high-performance hex bolt solutions.



SPECIFICATIONS

- Bolt Type: Hex Bolt, Heavy Hex Bolt, Square Head Bolt, Hex Flange Bolt, Square Head Bolt
- Stud Bolt Type: Full Threaded Stud, Double End Threaded Stud
- Special Bolt Type: Allen Head Cap Screw, Socket Head Cap Screw, Low Socket Head Cap Screw, Shoulder Bolt, Carriage Bolt, Countersunk Bolt, Eye Bolts, U-Bolts.
- 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 BOLTS

A hex bolt is a six-sided fastener with a threaded body, designed for securely fastening materials in construction, machinery, automotive, and industrial applications. Its hexagonal head allows easy tightening using standard tools like wrenches or spanners, ensuring a strong and reliable connection. Hex bolts come in various sizes, materials such as carbon steel, stainless steel, and alloy steel, and feature different finishes like zinc plating, galvanization, and black oxide for corrosion resistance. They are available in both fully and partially threaded designs to suit specific application needs.



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HEAVY HEX BOLTS

Heavy Hex Bolts are large, high-strength fasteners with a hexagonal head, designed for heavy-duty applications that require enhanced load-bearing capacity and durability. Commonly used in construction, machinery, infrastructure, and industrial sectors, they provide secure fastening in demanding environments. Made from materials like carbon steel, alloy steel, or stainless steel, heavy hex bolts are ideal for withstanding extreme forces. Their larger heads allow for better torque application, and they are often coated with corrosion-resistant finishes like zinc plating. Manufactured to meet standards such as ASTM A325 and A490, these bolts are reliable for securing critical structures and machinery.



STUD BOLTS – FULL THREADED

Stud bolts are fully threaded fasteners with no head, designed for use in flanged connections, piping systems, and structural applications. They are typically paired with two heavy hex nuts for secure assembly. Available in various sizes, lengths, and materials, including carbon steel, stainless steel, and high-performance alloys, stud bolts offer exceptional tensile strength, durability, and corrosion resistance. Common standards include ASTM A193, A320, and ASME B16.5, ensuring compatibility with industry requirements. Stud bolts are ideal for high-pressure and high-temperature environments, making them essential in industries such as oil & gas, petrochemicals, and power generation. Custom lengths and coatings are also available.



DOUBLE END THREADED STUD BOLTS

Double-end threaded stud bolts have threads on both ends with an unthreaded shank in the middle, offering secure fastening for a variety of industrial applications. They are commonly used in flanged connections, machinery, and structural assemblies requiring high strength and precision. Manufactured from materials like carbon steel, stainless steel, and specialty alloys, they provide excellent tensile strength, durability, and corrosion resistance. Conforming to standards such as ASTM A193, A320, and ASME B16.5, these bolts are suitable for high-pressure, high-temperature environments in industries like oil & gas, petrochemicals, and power plants. Custom lengths, coatings, and finishes are available to meet specific project requirements.



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SOCKET HEAD CAP SCREW

Socket head cap screws are high-strength fasteners with a cylindrical head and internal hexagonal drive, providing a secure, flush fit.

Commonly used in machinery, automotive, and aerospace applications, they enable precision assembly in tight spaces. Made from materials like alloy steel, stainless steel, and exotic alloys, they offer superior tensile strength, corrosion resistance, and wear durability. These screws conform to international standards such as ASTM, ISO, and DIN, ensuring consistent performance and compatibility. Available in various sizes, thread types, and finishes, socket head cap screws are ideal for critical applications where strength, reliability, and a clean, professional appearance are essential.



ALLEN HEAD CAP SCREW

Allen head cap screws are precision-engineered fasteners featuring a hexagonal recessed drive, allowing installation with an Allen wrench for a secure, flush fit. Known for their high tensile strength and durability, they are widely used in automotive, machinery, and industrial applications requiring a clean, professional appearance. Manufactured from materials like alloy steel, stainless steel, and specialty alloys, these screws offer excellent corrosion resistance and load-bearing capacity. They comply with industry standards such as ASTM, ISO, and DIN for reliability and quality assurance. Available in various sizes, threads, and finishes, Allen head cap screws are ideal for tight spaces and precision assemblies.



Countersunk Bolts

Countersunk screws are precision fasteners designed with a flat, conical head that sits flush with the surface when installed, creating a smooth, seamless finish. Commonly used in applications requiring a clean appearance, such as furniture, electronics, and machinery, they provide secure fastening while reducing snagging or obstruction risks. Available in materials like carbon steel, stainless steel, and specialty alloys, they offer excellent strength, corrosion resistance, and durability. Countersunk screws come in various head styles, including Phillips, slotted, and hex drives, conforming to international standards such as ASTM, ISO, and DIN. They ensure reliable performance in structural and decorative applications alike



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SHOULDER BOLT

Shoulder bolts, also known as stripper bolts, feature a cylindrical, smooth shaft (shoulder) between the head and threaded portion. This design allows precise alignment and controlled movement in mechanical assemblies. Commonly used in automotive, aerospace, and industrial machinery, shoulder bolts are ideal for rotating or sliding applications such as pulleys, gears, and linkages. They are manufactured from materials like stainless steel, alloy steel, and high-performance alloys for superior strength, wear resistance, and corrosion protection. Conforming to standards like ASTM, ISO, and DIN, they are available in various sizes, shoulder lengths, and thread types, ensuring reliable performance in precision engineering and heavy-duty applications.



SQUARE HEAD BOLTS

Square head bolts are sturdy fasteners with a four-sided head, providing a large gripping surface for secure tightening with wrenches or pliers. Their simple, robust design makes them ideal for heavy-duty applications in construction, woodworking, and industrial machinery. The square head prevents slippage during installation and allows easy tool access in tight spaces. Manufactured from materials like carbon steel, stainless steel, and alloy steel, they offer excellent strength, durability, and corrosion resistance. Square head bolts conform to standards such as ASTM, ISO, and DIN, ensuring precise dimensions and performance reliability. Custom sizes, thread types, and coatings are also available for specialized applications.



CONCRETE WDGE ANCHOR BOLT

Concrete wedge anchor bolts are heavy-duty mechanical fasteners designed for securing objects to concrete surfaces. They feature a threaded bolt, an expansion clip, a nut, and a washer. During installation, the anchor is inserted into a pre-drilled hole, and tightening the nut causes the expansion clip to wedge against the concrete, creating a strong, permanent hold. Made from materials like carbon steel, stainless steel, and zinc-plated steel, they offer excellent tensile strength, corrosion resistance, and durability. Commonly used in construction, structural reinforcement, and industrial installations, they comply with standards such as ASTM and ISO. Various sizes and finishes are available for specific load requirements.



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CARRIAGE BOLT

Carriage bolts are distinctive fasteners with a round, domed head and a square neck beneath them. The square neck locks into place when inserted into a pre-drilled hole, preventing rotation during tightening. This design makes them ideal for wooden and metal structures where a smooth, finished appearance is desired. Common applications include decks, fences, and heavy-duty construction projects. Made from materials like carbon steel, stainless steel, and galvanized steel, they offer excellent strength, corrosion resistance, and long-term durability. Carriage bolts conform to standards such as ASTM, ISO, and DIN. They are available in various sizes, thread types, and finishes for versatile use.



U-BOLT

U-bolts are U-shaped fasteners with threads on both ends, designed for securing pipes, cables, or structural elements to surfaces or other components. The curved shape provides a secure grip around round or cylindrical objects, making them ideal for use in plumbing, automotive, and construction applications. U-bolts are commonly used to attach pipes to brackets, mount machinery, or fasten components to beams or walls. They are typically made from carbon steel, stainless steel, and galvanized steel, offering excellent strength and corrosion resistance. Available in various sizes, thread types, and coatings, U-bolts conform to standards such as ASTM and ISO for reliable performance.



J-BOLT

J-bolts are shaped like the letter "J" and are commonly used for securing or anchoring objects to the surface. One end of the bolt features a hook or loop, while the other end is threaded for secure fastening with nuts or washers. J-bolts are typically used in concrete, masonry, or construction applications to anchor structures such as beams, posts, or equipment to a foundation. Made from materials like carbon steel, stainless steel, or galvanized steel, J-bolts offer strong tensile strength, durability, and corrosion resistance. They are available in various sizes, thread types, and finishes to meet specific project needs and standards.



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EYE-BOLT

Eye bolts are fasteners with a circular loop (or "eye") at one end and a threaded shaft at the other, designed for lifting, securing, or fastening applications. The loop allows for easy attachment of hooks, ropes, or cables, making them ideal for lifting heavy loads, rigging, and securing objects in construction, marine, and industrial applications. Eye bolts come in different configurations, including regular, shoulder, and lifting eye bolts, each suited for specific tasks. Made from materials such as carbon steel, stainless steel, or alloy steel, they offer high tensile strength, corrosion resistance, and durability. Eye bolts conform to standards like ASTM, ISO, and DIN.



DUPLEX & SUPER DUPLEX MATERIAL GRADES

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

STAINLESS STEEL MATERIAL GRADES

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

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NICKEL ALLOYS MATERIAL GRADES

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

ASTM / ASME MATERIAL GRADES

A193 GRADE B5	A193 GRADE B6	A193 GRADE B6X
A193 GRADE B7	A193 GRADE B7M	A193 GRADE B16
A193 GRADE B8 CL.1	A193 GRADE B8 CL.2	A193 GRADE B8A
A193 GRADE B8M CL.1	A193 GRADE B8M CL.2	A193 GRADE B8MA
A193 GRADE B8C CL.1	A193 GRADE B8C CL.2	A193 GRADE B8CA
A193 GRADE B8MLCuN CL.1	A193 GRADE B8MLCuN CL.2	A193 GRADE B8MLCuNA
A193 GRADE B8T CL.1	A193 GRADE B8T CL.2	A193 GRADE B8TA
A193 GRADE B8R	A193 GRADE B8S	
A320 GRADE L7	A320 GRADE L7M	A320 GRADE L43
A320 GRADE B8 CL.1	A320 GRADE B8 CL.2	A320 GRADE B8A
A320 GRADE B8M CL.1	A320 GRADE B8M CL.2	A320 GRADE B8MA

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A320 GRADE B8C CL.1	A320 GRADE B8C CL.2	A320 GRADE B8CA
A320 GRADE B8TCL.1	A320 GRADE B8T CL.2	A320 GRADE B8TA
A320 GRADE B8F CL.1	A320 GRADE B8F CL.2	A320 GRADE B8FA
A320 GRADE B8C CL.1	A320 GRADE B8C CL.2	A320 GRADE B8CA
ASTM F3125 A325 TYPE 1	ASTM F3125 A325 TYPE 3	
ASTM F3125 A325M TYPE 1	ASTM F3125 A325M TYPE 3	
ASTM F3125 A490 TYPE 1	ASTM F3125 A490 TYPE 3	
ASTM F3125 A490M TYPE 1	ASTM F3125 A490M TYPE 3	
ASTM A307 GRADE A	ASTM A307 GRADE B	
ASTM A354 GRADE BD	ASTM A354 GRADE BC	
ASTM A453 GRADE 660A	ASTM A453 GRADE 660B	ASTM A453 GRADE 660C
ASTM F593A	ASTM F593B	ASTM F593C
ASTM F593D	ASTM F593E	ASTM F593F
ASTM F593G	ASTM F593H	ASTM F593J
ASTM F593K	ASTM F593L	ASTM F593M
ASTM F593X	ASTM F593N	ASTM F593V
ASTM F593W	ASTM F593P	ASTM F593R
ASTM F593S	ASTM F593T	ASTM F593U







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

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