

CORE

MANUFACTURING

LARGE DOMESTIC FASTENERS



- Hex Cap Screws
- Socket Cap Screws
- 12-Point Flange Screws
- Hex Nuts
- Studs
- Pins
- Anchor Rods
- Special Fasteners
- Machine Specials
- Custom Forgings



- Power Generation
- Defense
- Aerospace
- Marine
- Mining
- Oil and Gas
- Industrial Equipment
- Critical Infrastructure



440.946.8002  www.coremfg.net  sales@coremfg.net

HEX HEAD CAP SCREWS



SIZE CAPABILITIES

- Nom. Dia.: 1/4" (M6) to 5" (M125)

HEAD OPTIONS

- Regular Hex per ASME-B18.2.1
- Heavy Hex per ASME-B18.2.1
- Custom Hex or Round
- D-Head

BODY OPTIONS

- Std Grip OD per ASME-B18.2.1
- Sized Grip OD to ± 0.0001 "
- Oversized Grip OD (shoulder screw)
- Undersized Grip OD (reduced body)
- Undercuts
- Dog Points

SOCKET HEAD CAP SCREWS



SIZE CAPABILITIES

- Nom. Dia.: 1/4" (M6) to 3" (M75)

HEAD OPTIONS

- Cylindrical Head per ASME-B18.3
- Cylindrical Head 1936 SERIES
- Stripper Bolt
- Custom Head and Broach Sizes

BODY OPTIONS

- Std Grip OD per ASME-B18.3
- Sized Grip OD to ± 0.0001 "
- Oversized Grip OD (shoulder screw)
- Undersized Grip OD (reduced body)
- Undercuts
- Dog Points

12-POINT FLANGE SCREWS



SIZE CAPABILITIES

- Nom. Dia.: 1/4" (M6) to 2" (M48)

HEAD OPTIONS

- 12-Point Head per IFI-115
- Flat Head
- Custom Flange & 12-pt Sizes

BODY OPTIONS

- Std Grip OD per IFI-115
- Sized Grip OD to ± 0.0001 "
- Oversized Grip OD (shoulder screw)
- Undersized Grip OD (reduced body)
- Undercuts
- Dog Points

OTHER FASTENERS

- Cap Nuts
- Coupling Nuts
- Sleeve Nuts
- Spanner Nuts
- Square Nuts
- Shoulder Screws
- Special Screws
- Square Bolts
- Clevises
- Turnbuckles
- Washers
- Bridge Pins
- Custom Pins
- Eyebolts
- Special Fasteners
- Forged Bar
- Custom Forgings



PRECISION SCREWS

All of our Hex Head, Socket Head, and 12-Point Flange Screws typically have a machined body, radius, and bearing surface performed after final heat treatment.

The result is minimal T.I.R. under the head and throughout the entire body, as well as having a superior surface micro-finish.

Length tolerances can be held up to ± 0.0001 ".

THREADING

Core can single point, roll, or chaser cut both unified inch and metric screw threads for UN, UNR, UNJ, M, and MJ per ASME-B1.1. All threads are available in series UNC, UN, UNF, and UNS.

Special thread lengths and fully threaded, as well as left hand, are also available.

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HEX NUTS



SIZE CAPABILITIES

- Nom. Dia.: 1/4" (M6) to 5" (M125)

HEX NUT TYPES

- Regular Hex per ASME-18.2.2
- Heavy Hex per ASME-18.2.2
- Jam
- Flat
- Thick
- Coupling
- Slotted
- Castellated
- T.I.R. Bearing Surface
- Custom Dimensions

STUDS



SIZE CAPABILITIES

- Nom. Dia.: 1/4" (M6) to 5" (M125)
- Lengths up to 24 inches

STUD TYPES

- Double End
- Tap End
- Single End
- External Wrenching
- Stud Bolts
- Socket Set Screw
- Full Threaded (TFL)

BODY OPTIONS

- TFL per ASME-B18.31.2
- Std. Grip OD per ASME-B18.31.2
- Sized Grip OD to ± 0.0001 "
- Oversized Grip OD (shoulder stud)
- Undersized Grip OD (reduced body)
- Undercuts

ANCHOR RODS



SIZE CAPABILITIES

- Nom. Dia.: 1/2" (M12) to 5" (M125)
- Lengths up to 40 feet

ROD TYPES

- Double End
- Single End
- Full Threaded
- Bent

BODY OPTIONS

- Std body per HR or CD bar tol.
- Sized body OD to ± 0.001 "
- Fully Threaded

MATERIAL GRADES

Core fasteners are produced using Domestic and DFARS materials that are fully traceable to the original melting mill and applicable heat treatment lot.

Our extensive bar stock inventory includes the following: Carbon, Alloy, 300/400/600 series Stainless, Monel, and Aluminum.

Other available grades include: AQ Alloys, Forged Alloys, Nitronic, Inconel, Titanium, and Copper/Brass/Bronze Alloys.

Our cold and hot headed blank inventory is carried in a wide variety of standard grades, and can be upgraded to custom and military requirements.

Hex Head, Socket Head, and 12-Point Flange Screws are available in grades 2, 5, 8, A307, A449, B7, BC, BD, A574, and CL-8.8, 10.9 and 12.9.

We also stock blank and finished Regular and Heavy Hex Nuts in grades A, B, C, D, 2, 2H, 2HM, 5, DH, 7, 7M, 8, and DH3.

The material grades Core can procure are almost endless. We regularly work to most ASTM, SAE, ANSI, AASHTO, MIL, FF, and DIN fastener and material specifications, covering all our stocking and available grades.

CUSTOM FINISHES

Optional surface finishes include zinc, hot dipped and mechanical galv, black oxide, cadmium, zinc and manganese phosphate, IVD Aluminum, Electroless Nickel, Copper Flash, and other specialty coatings.

PRODUCT AVAILABILITY

Core can manufacture and ship most products in about three to four weeks. Larger quantities, special testing, and coating will add additional time.

Expedited services are available.



OUR FACILITY

Located in Mentor Ohio, our production facility is 30 miles east of Cleveland and 45 minutes from Cleveland Hopkins airport.

We have convenient access to State Route 2 and Interstate 90.

Please contact us to schedule a factory tour.

QUALITY ASSURANCE

All raw material and products are controlled by an internal quality program designed to oversee all operations and processes to ensure strict compliance with customer requirements.

Core's quality control and inspection system is in compliance with MIL-I-45208A. We maintain complete heat lot traceability on all in-house production orders and confirm that all customer requirements are met throughout the entire manufacturing process. All destructive and non-destructive testing is performed by independent A2LA and Nadcap accredited metallurgical laboratories.

Thread gaging in compliance with ASME B1.3, covering both System 21 and System 22.

We offer complete certifications that can include dimensional product inspection, material melt chemistry, heat treatment, hardness, destructive testing, non-destructive testing, coating, self locking device, and other processes.

Available product marking includes: heat lot code, serialization, logos, date of manufacture and any special requirements.

ABOUT US

Core Manufacturing is owned and operated by a team of veteran fastener professionals with nearly a century of combined industry experience. We manufacture precision fastening hardware for a wide variety of industrial and military applications, as well as domestic anchor rods and optional hardware.

Our overall process is focused on maximum efficiency, product compliance, and cost effectiveness. The end result is a quality product that meets or exceeds customer requirements, on time, and at a fair price.



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