



UNI CIRCLE FASTENERS SDN BHD



**FASTEN WITH
CONFIDENCE**

Founded in 2003, Uni Circle Fasteners Sdn Bhd specializes in **high-performance, custom-made, and special-alloy fasteners.**



ABOUT US

Uni Circle Fasteners Sdn Bhd (UCF) is a specialist in high-performance, custom-made and special-alloy fasteners, supporting technical and project-specific fastening requirements across Southeast Asia and Australia, including Malaysia, Singapore, Brunei, Indonesia, and Vietnam.

ESTABLISHED IN 2003,

UCF focuses on high-performance fasteners for critical industrial applications where material integrity, accuracy, and reliability are essential.

Backed by over 20 years of experience in fasteners and industrial supply, UCF delivers precision-engineered products, dependable supply chain solutions, and reliable customer support.

We specialize in custom-engineered fasteners built to exact project specifications, ensuring performance, compliance, and long-term reliability in demanding environments.



OUR VISION

To be a leading regional specialist in high-performance, custom-made, and special-alloy fasteners.



OUR MISSION

To provide reliable fastening solutions that ensure safety, performance, and long-term value.

UNI CIRCLE FASTENERS SDN BHD

U UNITY

We work collaboratively with our stakeholders to achieve shared success.

C CREDIBILITY

We uphold integrity, reliability, and technical accuracy in every solution we deliver.

F FUTURE-DRIVEN

We continuously improve our capabilities to meet evolving industry needs.

OUR SOLUTIONS

01

STANDARD FASTENING SOLUTIONS

We offer an extensive range of standard fasteners, including:

- Bolts, Nuts, Screws, Washers
- Anchors, Rivets, Pins, Clips
- Socket Screws and Machine Screws
- High-Tensile, Stainless Steel, and Coated Fasteners

These are produced under strict quality control to ensure dependable performance.

02

CUSTOM-MADE FASTENER SOLUTIONS

For projects requiring non-standard components, our custom fastener solutions support:

- Non-standard sizes and thread types
- Custom head designs and drive types
- Heavy-duty and high-strength fasteners
- Wide material selection
- Low-volume prototypes & large-volume production

Suitable for OEMs, machinery manufacturers, specialized construction, and project-based industrial applications.

03

SPECIAL ALLOY FASTENER SOLUTIONS

We supply fasteners designed for demanding environments requiring:

- High-temperature resistance
- High tensile strength
- High corrosion and chemical resistance
- Long-term structural durability

Materials are selected based on application needs, including stainless steel, duplex and super duplex grades, nickel-based and titanium alloys, and other special alloys.

OUR SOLUTIONS



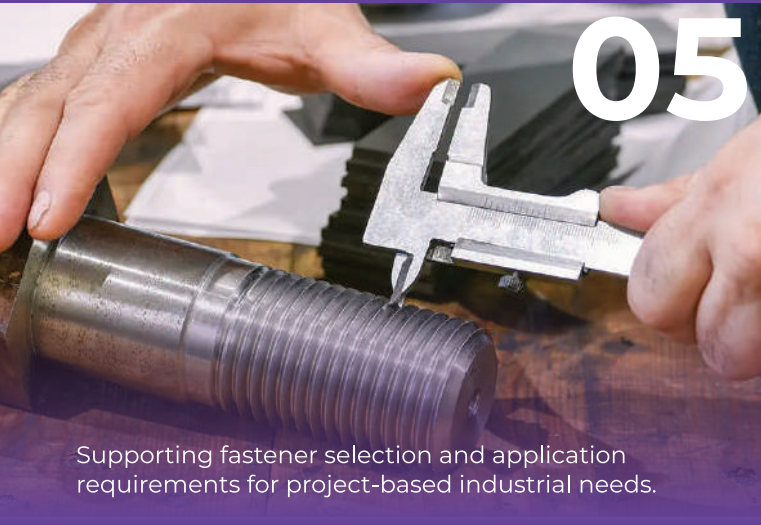
04

SUPPLY CHAIN & LOGISTICS CAPABILITY

UCF supports fast and reliable delivery of critical fasteners through:

- Nationwide delivery across Malaysia
- Regional shipping to Singapore, Indonesia, Brunei, Vietnam, Australia, and other markets
- Strong partnerships with established logistics providers
- Streamlined quotation, order processing, and fulfillment
- Well-organized warehousing for accurate picking and packing

Our logistics capability supports project continuity and minimizes downtime for industrial operations.



05

ENGINEERING SUPPORT & TECHNICAL GUIDANCE

We provide technical guidance related to fastener selection and usage, including:

- DIN and ISO standards guidance
- Thread type and compatibility checks
- Material selection guidance
- Guidance on suitable coatings and corrosion protection

Supporting fastener selection and application requirements for project-based industrial needs.



06

QUALITY & COMPLIANCE SOLUTIONS

Our quality assurance approach includes:

- Dimensional and thread inspections
- Material grade verification
- Supplier and manufacturer evaluation
- Documentation support
- Traceability and batch control
- Compliance with applicable international fastener standards

Ensures a reliable, consistent fastener supply aligned with project needs.

OUR PRODUCT

SPECIAL ALLOY FASTENERS

Custom-engineered fasteners in exotic, high-performance alloys for extreme temperature, pressure, and corrosion environments.



HIGH-PERFORMANCE BOLTING ALLOYS

ASTM A453 Grade 660 (A/B/C/D)

(Also known as Alloy 660 / A-286 / UNS S66286)

A proven high-temperature bolting grade widely specified for critical service applications.

KEY CHARACTERISTICS

- Excellent high-temperature strength
- Good creep resistance
- Suitable for demanding mechanical and thermal conditions

Nickel & Nickel-based Alloys

Inconel : **600 • 625 • 718 • 725 • X-750**
 Incoloy : **800 • 800H • 800HT • 825 • 925**
 Hastelloy : **C-22 • C-276 • C-2000**
 Nimonic : **75 • 80A**
 Monel : **400 • K-500**

KEY PROPERTIES:

- Outstanding high-temperature and oxidation resistance
- Excellent corrosion resistance in seawater and aggressive chemicals
- Suitable for sour service applications (NACE MR0175, material dependent)

Duplex & Super Duplex Stainless Steels

UNS S31803 / S32205 (DUPLEX 2205)

UNS S32550 (FERRALIUM 255)

UNS S32750 (SUPER DUPLEX 2507)

UNS S32760 (ZERON 100)

KEY PROPERTIES:

- High mechanical strength
- Excellent resistance to pitting and crevice corrosion
- Strong performance in chloride-rich environments

Austenitic & Heat-resistant Stainless Steels

316 / 316L / 316TI

317 / 317L

310 / 310S

321 / 347

904L

254 SMO® / AL-6XN®

KEY PROPERTIES:

- Excellent corrosion resistance in chemical environments
- Reliable performance at elevated temperatures

Martensitic & Precipitation-Hardening Stainless Steels

410 / 420 / 431

17-4PH (630)

15-5PH

A-286 / ALLOY 660

KEY PROPERTIES:

- High strength and hardness (heat-treatable grades)
- Good wear and fatigue resistance
- Stable mechanical performance under load
- Suitable for demanding structural and mechanical applications

Titanium Alloys

Titanium : **Grade 2**
Grade 5 (Ti-6Al-4V)

KEY PROPERTIES:

- Exceptional strength-to-weight ratio
- Outstanding corrosion resistance
- Weight-critical industrial applications



STANDARDS NOTE

Where specified, fasteners can be supplied in accordance with **ASTM F468**, **ASTM A1082**, and **ASTM F593** for applicable stainless steel and special alloy materials.

In addition to the material grades listed, a wider range of special alloys and international equivalent materials can be supported based on project requirements.

OUR PRODUCT

STUD BOLTS & INDUSTRIAL BOLTING SOLUTIONS

High-performance stud bolts, nuts, and bolting assemblies for high-temperature, high-pressure, and critical-service environments.



Stud Bolt – ASTM A193 / A320 Grades

Available in cut-length or full assembly sets.

Matching Bolting Assemblies (Nut-to-Bolt Compatibility)

Stud Bolt Grade	Recommended Nut Grade	Service Environment
B7	A194 Grade 2H	High-Temp / Standard Pressure
B7M	A194 Grade 2HM	High-Temp / Sour Service (H ₂ S)
B16	A194 Grade 4 or Grade 7	Extreme High-Temperature
L7	A194 Grade 4 or Grade 7	Low-Temperature / Cryogenic
L7M	A194 Grade 7M	Low-Temperature / Sour Service
L43	A194 Grade 7	Heavy Section Low-Temperature
B8 / B8M	A194 Grade 8 / 8M	Stainless Steel Service

TECHNICAL NOTES

- While Grade 2H is limited to high temperatures, Grade 4 and Grade 7 possess the metallurgical properties to handle both High-Temperature and Low-Temperature extremes without losing structural integrity.
- The "M" Designation (Sour Service): Grades ending in "M" (e.g., B7M, L7M, 2HM) are specifically heat-treated to a lower hardness. This is mandatory for compliance with NACE MR0175/ISO 15156 to prevent Sulfide Stress Cracking in sour gas environments.
- Stainless Steel Classes: Class 1 stainless steel is annealed (softer), while Class 2 is strain-hardened for significantly higher tensile strength. Ensure the class is specified based on the pressure rating of your application.



Heavy Hex Nut – ASTM/ASME A194 Grades

Matching nuts with full material traceability.

- **2H / 2HM** — High-Temperature / High-Pressure Service
- **4** — High & Low Temperature / High-Pressure Service
- **7 / 7M** — High & Low Temperature / High-Pressure Service
- **8 / 8M** — Stainless Steel



Corrosion Protection & Coating Options

- Xylan 1070 (FCC / PTFE)
- Xylan 1424 (FCC / PTFE)
- Xylar 2 (Cermet)
- Zinc Flake (Xylan Zinc Rich)
- Zinc-Nickel Electroplating (ASTM B841)
- Zinc Plating (ASTM B633)
- Hot-Dip Galvanizing (ASTM A153)
- Mechanical Galvanizing (ASTM B695)

Standards & Specifications (ASTM vs. ASME)

In the oil and gas industry, material specifications are often dual-certified.

• ASTM (American Society for Testing and Materials)

The standard for testing and material properties (e.g., ASTM A193 / ASTM A320 / ASTM A194).

• ASME (American Society of Mechanical Engineers)

The standard for construction and design. When a material is approved for the ASME Boiler and Pressure Vessel Code, an "S" is added to the prefix (e.g., SA-193 / SA-320 / SA-194).

• SA / ASTM

Our products are typically supplied to meet both ASTM and ASME SA requirements to ensure compliance with global pressure vessel codes.

OUR PRODUCT

STRUCTURAL & FOUNDATION FASTENERS

Structural anchoring and load-bearing fasteners manufactured to drawings and specifications for use in concrete foundations, steel structures, and industrial building systems.

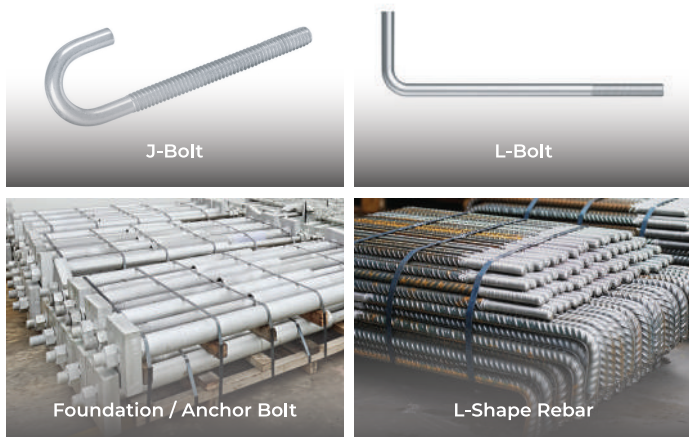


ROD-BASED STRUCTURAL FASTENERS



Used for structural bracing, load transfer, alignment, and reinforcement in steel frames, roofing systems, and industrial assemblies.

STRUCTURAL & ANCHORING FASTENERS



These fasteners are typically cast-in, embedded, or installed as part of structural connections to resist tensile, shear, and uplift forces.

MATERIALS AVAILABLE



MILD STEEL
 CARBON STEEL (E.G. S45C)
 ALLOY STEEL (E.G. AISI 4140)
 STAINLESS STEEL
 (E.G. SS304 / SS316)

COATING & SURFACE TREATMENTS



- Zinc Plated (Blue / Yellow / Rainbow / Black)
- Hot-Dip Galvanised (HDG)
- Mechanical Galvanising
- PTFE / Xylan / FCC
- Plain / Self-Colour

OUR PRODUCT

CNC PRECISION MACHINED PARTS

High-precision components produced to specified tolerances based on technical drawings or 3D models.



CNC COMPONENT TYPES

TURNED COMPONENTS

- Bushings / Spacers / Sleeves
- Shafts & Pins
- Precision Threaded Parts

FASTENER-TYPE COMPONENTS

- Custom Nuts
- Custom Screws
- Special Bolt Heads
- Non-standard Threads

COMPLEX / CUSTOM SHAPES

- Multi-axis machined components
- Tight-tolerance parts
- Prototypes & low-volume engineering parts

MATERIALS AVAILABLE

- Mild Steel
- Carbon Steel
- Alloy Steel
- Stainless Steel
- Aluminium
- Brass
- Copper
- Bronze
- Titanium
- Engineering Plastics (Nylon, PTFE/Teflon)

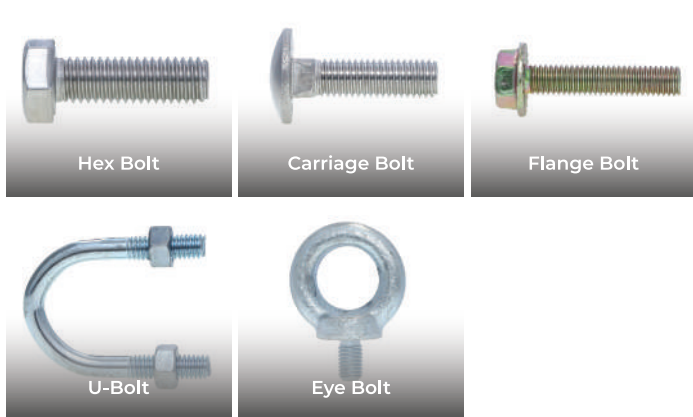


STANDARD FASTENERS

Industrial-grade fasteners for general engineering, manufacturing, construction, and MRO applications.



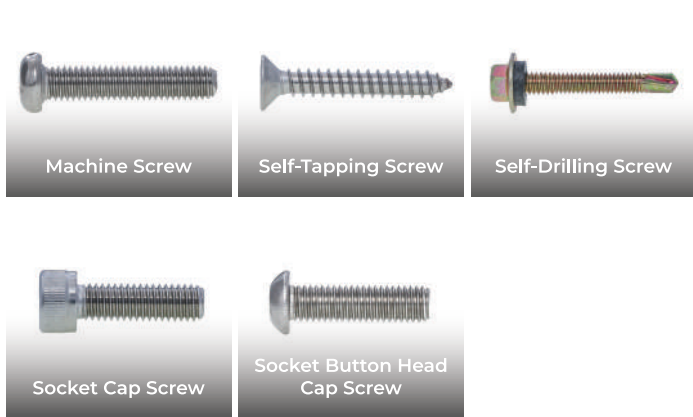
BOLTS



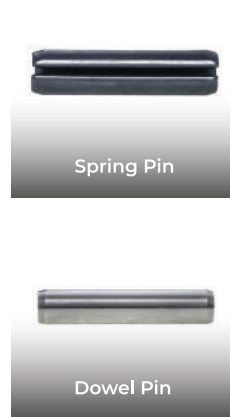
NUTS



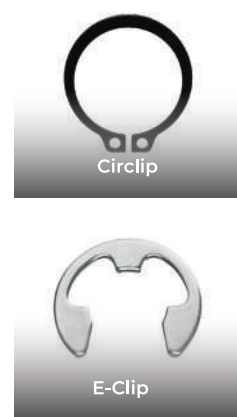
SCREWS



PINS



CLIPS



WASHERS



ANCHORS





INDUSTRIES WE SERVE

We specialize in high-performance fasteners for critical applications across diverse industries:

OIL & GAS

LNG plants, pipelines, refineries, petrochemical facilities, and EPC contractors.

MARINE & OFFSHORE

Shipbuilding, offshore structures, subsea equipment, and seawater systems.

POWER GENERATION

Turbines, boilers, heat exchangers, and high-temperature applications.

CONSTRUCTION & INFRASTRUCTURE

Civil engineering, structural steelworks, foundation systems, and bridge projects.

MANUFACTURING & INDUSTRIAL PRODUCTION

OEM, machinery builders, valve & pump manufacturers, oil & gas equipment makers, and fabrication workshops.

MRO (MAINTENANCE, REPAIR & OVERHAUL)

Factory maintenance teams, repair contractors, and service workshops.

QUALITY ASSURANCE

UCF works with qualified manufacturers whose quality, safety, and environmental management systems comply with recognized international standards, including:

- ISO 9001 (Quality Management)
- ISO 14001 (Environmental Management)
- ISO 45001 (Occupational Health & Safety)
- ASTM (Material and Fastener Standards)
- ASME (Pressure Equipment Standards)
- API
- NACE (Sour Service Requirements)
- NORSOK
- PED (Pressure Equipment Directive)
- AD 2000
- CPR / 0343
- EIL



DOCUMENTATION & TESTING SUPPORT



Depending on project scope, material type, and customer requirements, supporting documentation may include:

- Supplier and manufacturer evaluation
- Material Test Certificates in accordance with BS EN 10204 (2.1, 2.2, 3.1), where available
- Raw material mill certificates
- Mechanical and material testing conducted by manufacturers or accredited external laboratories

This ensures quality and documentation are aligned with project specifications and agreed requirements.



Uni Circle Fasteners Sdn Bhd

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