

Fasteners

Catalogue



CAT MINH
TECHNOLOGY EQUIPMENT CO., LTD
SINCE 2000



2018-2020



High Tension Bolts

Bulong cường độ cao



| | |
|----------------|--|
| Standard | DIN 931 - DIN 933 |
| Diameter | M6 - M100 |
| Length | 15 - 500 mm |
| Property Class | 4.6 - 8.8 - 10.9 - 12.9 |
| Coated | <ul style="list-style-type: none">- Black oxide- Zinc galvanized- Hot-dip galvanize- PTFE |

Structural Bolts

Bulong kết cấu



| | |
|----------------|--|
| Standard | JIS B1186 - JSS II-09 |
| Diameter | M12 - M36 |
| Length | 40 - 300 mm |
| Property Class | F10T - F8T - S10T - S10T T.C |
| Coated | <ul style="list-style-type: none">- Black oxide- Zinc galvanized- Hot-dip galvanize- PTFE |

Stud Bolts

Thanh ren



| | |
|----------------|--|
| Standard | ASTM A193 B7/ A194 2H/ A193 B7M/ A194 2HM |
| Diameter | 1/2 - 2 (in) |
| Length | 4 - 12 (in) |
| Property Class | B7 - B7M - B8 - B8M |
| Coated | <ul style="list-style-type: none">- Black oxide- Zinc galvanized- Hot-dip galvanize- PTFE |

ASTM Bolts

Bulong thép tiêu chuẩn ASTM



| | |
|----------------|--|
| Standard | ASTM A325/A325M/A490/A490TC/A320L7 |
| Diameter | 1/2 - 2 1/2 (in) |
| Length | 3/4 - 20 (in) |
| Property Class | B7 - B7M - B8 - B8M |
| Coated | <ul style="list-style-type: none">- Black oxide- Zinc galvanized- Hot-dip galvanize- PTFE |

Socket Screws

Bulong lục giác chìm



| | |
|----------------|---|
| Standard | DIN7991 - DIN 916 - ISO10642 |
| Diameter | M3 - M36 |
| Length | 20 - 250 mm |
| Property Class | 10.9 - 12.9 |
| Coated | <ul style="list-style-type: none"> - Black oxide - Zinc galvanized - Hot-dip galvanize - PTFE |

Heavy Hex Nuts

Đai ốc cường độ cao



| | |
|----------------|---|
| Standard | DIN 934/ 936/ 970 - JIS B1181 - ASTM A194 2H |
| Diameter | M6 - M100 |
| Length | - |
| Property Class | 4.6 - 8.8 - 10.9 - 12.9 |
| Coated | <ul style="list-style-type: none"> - Black oxide - Zinc galvanized - Hot-dip galvanize - PTFE |

Washers

Long đến các loại



| | |
|----------------|---|
| Standard | ASTM F156 - DIN 125A /125B/127/2093/6796 |
| Diameter | M6 - M100 |
| Length | - |
| Property Class | 3.6 - 4.6 - 4.8 - 5.6 - 5.8 - 6.6 - 6.8 - 8.8 - 10.9 - 12.9 |
| Coated | <ul style="list-style-type: none"> - Black oxide - Zinc galvanized - Hot-dip galvanize - PTFE |

Screws

Vít các loại



| | |
|----------------|---|
| Standard | JIS B 1111/1996 - NF E25/129 - DIN 7991 - DIN 963 |
| Diameter | M3 - M8 |
| Length | 15 - 200 mm |
| Property Class | 4.6 - 6.8 |
| Coated | <ul style="list-style-type: none"> - Black oxide - Zinc galvanized - Hot-dip galvanize - PTFE |

Specialty Bolts

Bulong đặc biệt



| | |
|----------------|---|
| Standard | ASTM - DIN - ISO - JIS |
| Diameter | M8 - M72 |
| Length | 10 - 500 mm |
| Property Class | 4.6 - 8.8 - 10.9 - 12.9 |
| Coated | <ul style="list-style-type: none"> - Black oxide - Zinc galvanized - Hot-dip galvanize - PTFE |

Anchor Bolts

Bulong Neo



| | |
|----------------|---|
| Standard | ASTM F1554/ F3125... (As Drawing Of Customers) |
| Diameter | M8 - M72 |
| Length | 10 - 500 mm |
| Property Class | 4.6 - 8.8 - 10.9 - 12.9 |
| Coated | <ul style="list-style-type: none"> - Black oxide - Zinc galvanized - Hot-dip galvanize - PTFE |

Specialty Nuts

Đai ốc đặc biệt



| | |
|----------------|---|
| Standard | DIN - ASTM - JIS - ISO |
| Diameter | M3 - M100 |
| Length | - |
| Property Class | 4.6 - 8.8 - 10.9 - 12.9 |
| Coated | <ul style="list-style-type: none"> - Black oxide - Zinc galvanized - Hot-dip galvanize - PTFE |

Specialty Washers

Long dền đặc biệt

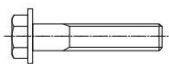
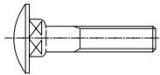
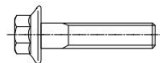
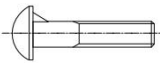
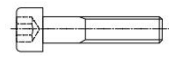
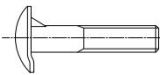
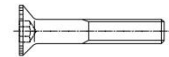
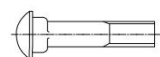

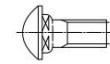
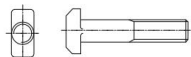
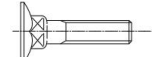
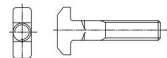
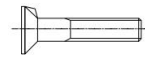
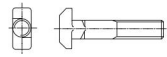
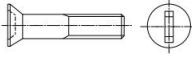


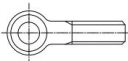





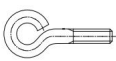











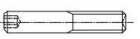

| | |
|----------------|---|
| Standard | ASTM - DIN - JIS - ISO |
| Diameter | M3 - M100 |
| Length | - |
| Property Class | 4.6 - 8.8 - 10.9 - 12.9 |
| Coated | <ul style="list-style-type: none"> - Black oxide - Zinc galvanized - Hot-dip galvanize - PTFE |

Other Special Bolts

Một số loại bulong đặc biệt khác

We can supply fasteners to your requirement. Please inquire to Cat Minh Industrial Hardware Co.,Ltd

| | | | |
|---|---|---|---|
| Hexagon bolt with collar |  | Nushroom head square neck bolt |  |
| Hexagon bolt with flange |  | Cup head nib bolt |  |
| Hexagon socket head cap screw |  | Nushroom head nib bolt |  |
| Hexagon socket countersunk head cap screw |  | Cup oval neck bolt |  |
| 12 point flange screw |  | Cup square neck bolt |  |
| T-head bolt (Hammer head bolt) |  | Flat countersunk square neck bot |  |
| T-head bolt with square neck |  | Flat countersunk nib bot |  |
| T-head bolt with double nib |  | Countersunk head screw with forged slot |  |

| | | | |
|---|---|---|---|
| Eye bolt |  | Slotted headless screw with flat chamfered |  |
| Lifting bolt |  | Hexagon socket headless screw with flat chamfered end |  |
| Stirrup bolt (U-bolt) |  | Hexagon socket headless screw with cone point |  |
| Eyelet bolt |  | Slotted set screw with flat point |  |
| Weld stud (Single end stud) |  | Slotted set screw with full dog point |  |
| Stud bolt |  | Slotted set screw with cup point |  |
| Stud |  | Slotted set screw with cone point |  |
| Stud with undercut |  | Hexagon socket set screw with flat point |  |
| Hexagon socket headless screw with full dog point |  | Hexagon socket set screw with full dog point |  |
| Hexagon socket headless screw with full cup point |  | Hexagon socket set screw with cup point |  |

TAKECOAT®-1000

**Resistance to rust
and corrosion**

**Long-term
Durability**

Lubricity

**Incredible
Fluoropolymer Coating**

Exposure test in water Injection Plant
(Near and Middle East)



Desalination Plants
Parts



TAKECOAT®-1000 is approved by
the "building material technical
verification process" of the Civil Engineering
Technical Center, Ministry of Construction Japan.
Certificate for Construction technology:
No.0430 (Material · Products · Technology, Road Management)
by Public Works Research Center

TAKECOAT® is a registered trademark of Takenaka Seisakusho Co., Ltd.

World top share

Subway Segments
and Fasteners



Features of TAKECOAT®-1000

Resistance to rust and corrosion

TAKECOAT®-1000 has a two-layer structure of high anticorrosive performance. In various outdoor exposure tests and actual application in the sea and field, its excellent performance has been highly evaluated and appreciated and also remarkable results have been reported in indoor acceleration corrosion tests by independent laboratories such as (JQA of Japan and KTA of the U.S.A).



After 6,000h of Salt Spray Test Conducted by KTA, USA



〈Similar Fluoropolymer Products of Foreign Makers / After 500h of Salt Spray Test〉



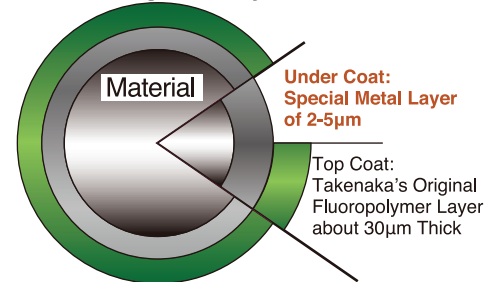
After 10 Year Exposure Test in Water Injection Plant (UAE)

Durability

(stable fastening of bolts)

Owing to high lubricity and hardness of fluorocarbon polymer film, the film is hardly damaged even when a high load or shearing force of a few ten tons is applied on the film surface. Forming of rust from damaged portion is very rare. (Particularly effective for fastening of bolts.)

Coating of Bi-layer Structure



Heat Resistance

Fluorocarbon polymer features excellent heat resistance and refrigerant resistance.
 Temperature of continuous use : -196°C to + 200°C
 Temperature of intermittent use : -196°C to + 230°C

For use in high temperature industrial plants (over 200°C), TAKECOAT®-CERAMIC1 is recommended.

Performance table

| Performance item | ISO | JIS | Performance |
|--|---------------------------|-------------------|---|
| Under Coat | Electric Thickness Tester | | Special layer 2-5 µm |
| Top Coat | 2808 | K5600-1-7 | Special Fluorocarbonpolymer layer, 30 µm plus |
| Bending Resistance | 1519 | K5600-5-1 | φ 4 mm No Damage |
| Impact Resistance (1000g/50cm) | 6272 | K5600-5-3 | φ 3.2 mm No Damage |
| Film Hardness (Pencil Hardness) | 15184 | K5600-5-4 | 4H plus |
| Adhesion | 2409 | K5600-5-6 | 100/100 |
| Salt Spray Test | 7253 | K5600-7-1 | 6,000h No change in condition |
| Cycle Corrosion Test (Wet:Salt Fog/Dry/Humidity) | 11997-1 | K5600-7-9 Cycle A | 4,000h No change in condition |
| Sulfur Dioxide Test | DIN50018 | SFW2.0S | 20Cycle R.N.8 |
| Weathability | 11341 | K5600-7-7 | 4,000h No change in condition |
| Torque Coefficient | — | B1186 | 0.11-0.15 |
| Heat resistance | 3248 | K5600-5-9 | Max. 200°C |
| Surface rough degree (Representative figure) | — | — | Ra=0.6948 Rz=2.4389 Rmax=3.9674 |
| Electric resistance | Four terminals method | | 10E14 Ω · m |

Public certification

- (1) Ministry of Land, Infrastructure, Transport and Tourism certification (MBLT-0134)
- (2) Certificate for Construction technology: No.0430 (Material • Products • Technology, Road Management) by Public Works Research Center
- (3) Various overseas oil companies
- (4) Various domestic public organizations



Even for most harshest environment causing heavy corrosion

Sustainable for even seawater and desert area



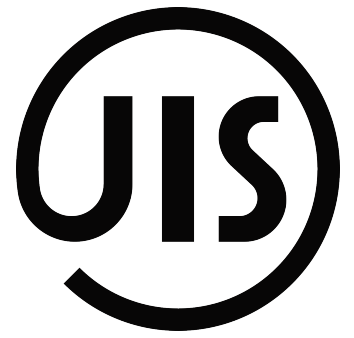
Just only TAKECOAT®-1000 !

THANK YOU FOR YOUR ATTENTION

DIN



ASTM INTERNATIONAL



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