

Fasteners

Catalogue



CAT MINH
TECHNOLOGY EQUIPMENT CO., LTD
SINCE 2000



2018 - 2020



ASTM - A325*Bu lông kết cấu ASTM-A325*

Standard	ASTM -A325
Diameter	1/4 - 1 1/2 (in)
Length	3/4 - 12 (in)
Grade	A325
Coated	<ul style="list-style-type: none"> - Black oxide - Zinc galvanized - Hot-dip galvanize - PTFE, Teflon, Ceramic, Dacro

ASTM - A325M*Bu lông kết cấu ASTM-A325 M*

Standard	ASTM -A325 M
Diameter	1/4 - 1 1/2 (in)
Length	3/4 - 12 (in)
Grade	A325 M
Coated	<ul style="list-style-type: none"> - Black oxide - Zinc galvanized - Hot-dip galvanize - PTFE, Teflon, Ceramic, Dacro

ASTM - A325 TC*Bu lông kết cấu ASTM-A325 TC*

Standard	ASTM A325 TC
Diameter	1/4 - 1 1/2 (in)
Length	3/4 - 12 (in)
Grade	F1852
Coated	<ul style="list-style-type: none"> - Black oxide - Zinc galvanized - Hot-dip galvanize - PTFE, Teflon, Ceramic, Dacro

ASTM - A490*Bu lông kết cấu ASTM - A490*

Standard	ASTM - A490
Diameter	1/4 - 1 1/2 (in)
Length	3/4 - 12 (in)
Grade	A490
Coated	<ul style="list-style-type: none"> - Black oxide - Zinc galvanized - Hot-dip galvanize - PTFE, Teflon, Ceramic, Dacro

ASTM - A490 TC

Bu lông kết cấu ASTM - A490 TC



Standard	ASTM - A490 TC
Diameter	1/2 - 1 1/2 (in)
Length	2 - 12 (in)
Grade	F2280
Coated	<ul style="list-style-type: none">- Black oxide- Zinc galvanized- Hot-dip galvanize- PTFE, Teflon, Ceramic, Dacro

ASTM - A193 B7

Thanh ren ASTM - A193 B7



Standard	ASTM - A193 B7
Diameter	3/4 - 7 (in)
Length	2 - 64 (in)
Grade	B7
Coated	<ul style="list-style-type: none">- Black oxide- Zinc galvanized- Hot-dip galvanize- PTFE, Teflon, Ceramic, Dacro

ASTM - A193 B8

Thanh ren ASTM - A193 B8



Standard	ASTM - A193 B8/ B8M
Diameter	ALL
Length	2 - 64 (in)
Grade	B8 Class 1 / B8 Class 2 / B8M Class 1 / B8M Class2
Coated	-

ASTM - A193 B16

Thanh ren ASTM - A193 B16



Standard	ASTM - A193 B16
Diameter	3/4 - 7 (in)
Length	2 - 64 (in)
Grade	B16
Coated	-

High Tensile Bolt*Bulong cường độ cao*

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

Structural Bolt*Bulong kết cấu*

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

Titanium Bolt*Bu lông Titan*

Standard	ASTM - DIN - JIS - ISO
Diameter	M1.6 - M64
Length	15 - 500 mm
Grade	Gr1 - Gr2 - Gr3 - Gr4 - Gr5 - Gr7 - Gr9 - Gr12 - Gr23
Coated	-

Brass Bolt*Bu lông Đồng*

Standard	ASTM - DIN - JIS - ISO
Diameter	M1.6 - M64
Length	15 - 300 mm
Grade	-
Coated	-

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

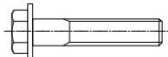
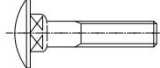
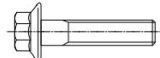
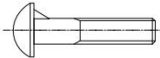
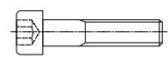
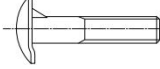
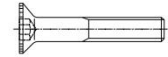


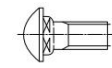
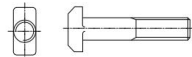
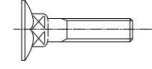
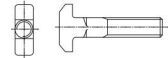
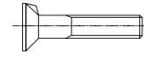
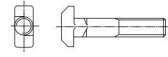
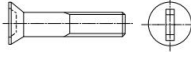


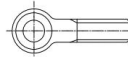
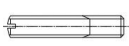

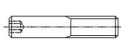
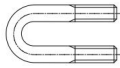
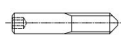
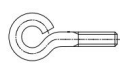

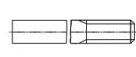



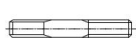

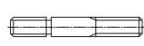

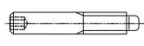

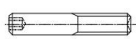

Standard	ASTM - DIN - JIS - ISO
Diameter	M3 - M100
Length	-
Property Class	4.6 - 8.8 - 10.9 - 12.9
Coated	<ul style="list-style-type: none">- Black oxide- Zinc galvanized- Hot-dip galvanize- PTFE

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〉



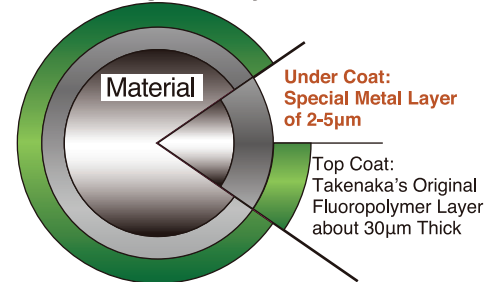
After 10 Year Exposure Test in Water Injection Plant (UAE)

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



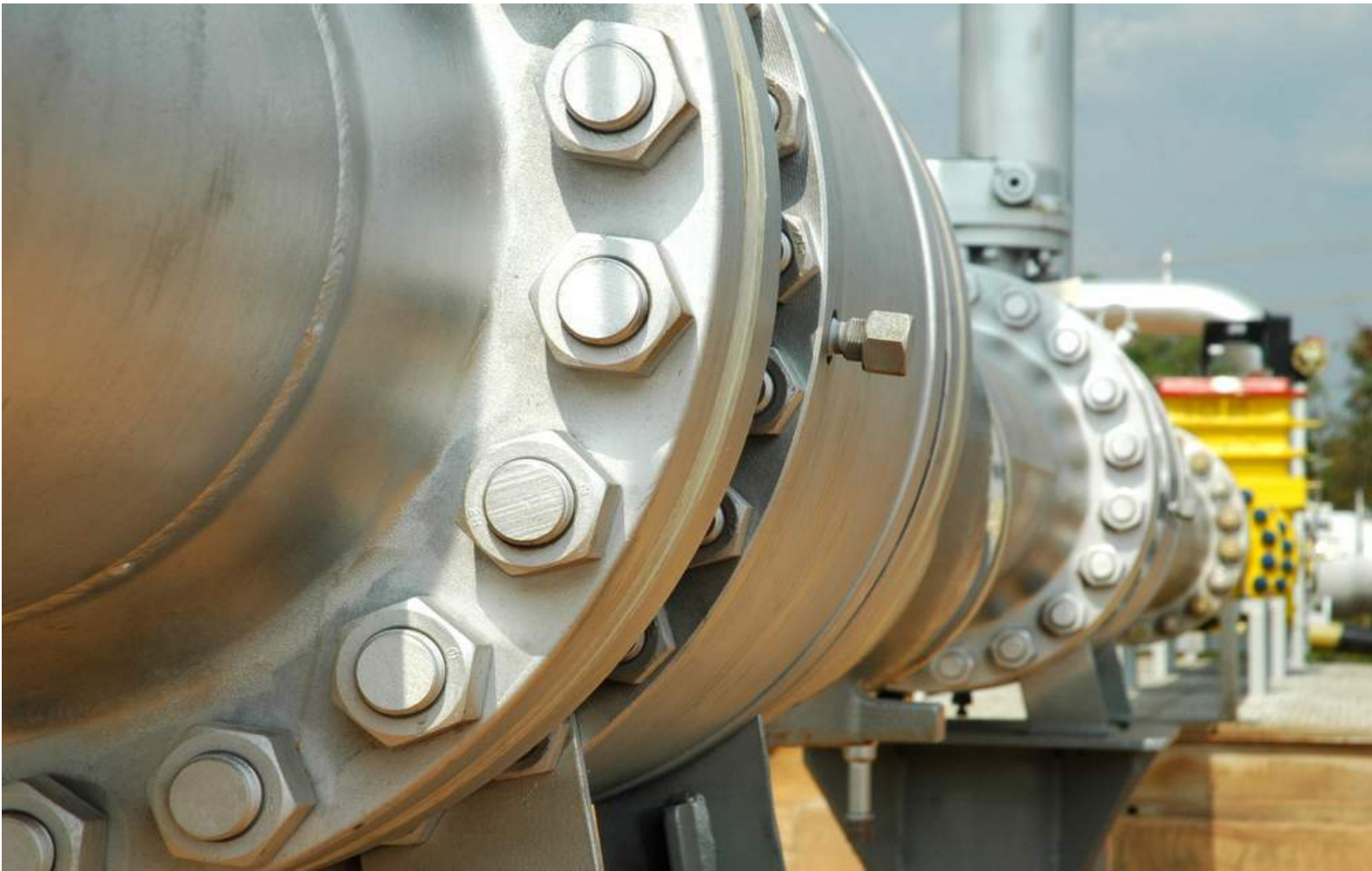
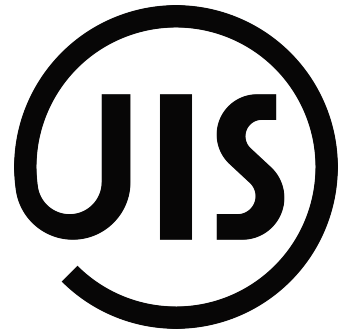
Just only TAKECOAT®-1000 !

THANK YOU FOR YOUR ATTENTION

DIN



ASTM INTERNATIONAL



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