



## Construction Anchor Product Catalogue

Construction Anchor  
Product Catalogue





## Technique:

The calculation software developed by Shanghai Tongji University can provide technical support for selection, calculation, etc. Provide a better solution for anchoring fixing.

## Service:

We have many sales offices at domestic and abroad to provide fast and good service.



**Quality:** Passed CTC,CABR,CE,SGS,and other domestic and foreign authority organization inspection and certification.



# Construction Anchor product catalogue

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# Construction Anchor Products Outline

## 1.Brief Introduction of Anchor Bolt

1.Anchor bolts can be classified into expansion bolt, reaming bolt, adhesive bolt and others by its working principle and structure. Besides considering its performance difference, the selection of all kinds of anchor bolts also should consider the combined effect by these factors like base material's shape, anchor connection stress features, connected structure type and the requirement of anti-seismic or not.

2.Expansion bolt, reaming bolt and chemical bolt can be used to the post-anchorage connection of non-structural component as well as compressive, centre sheared and compression-shear combination structural component. The applicable and limit scope of all kinds of anchor bolt should conform to provision"3"

Note: Non-structural component includes construction non-structural component(retaining external wall, partition wall, curtain wall, suspended ceiling, advertising board and storage locker) and the brackets of construction auxiliary electromechanical device etc.

3.Expansion bolt and reaming bolt can not be used to these structural components which bear tensile force, shear force at edge, tensile-shear combined force, and the post-anchorage connection of non-structural component in lifeline project.



## 2.Design Principle of Anchor

1.Adopt the Limit State Design Method which is based on experimental study data and engineering experience,and expressed by share coefficient.

2.According to the severity of failure consequence,the post-anchorage connection will be classified into two security levels. The post-anchorage connection design of concrete structure should adopt corresponding security level according to regulation, but should be not less than the security level of the structure connected.



## 3.Type and Feature of Post-Anchorage System

The application of anchorage system in these structures with concrete structure mainly includes these two types pre-anchorage and post-anchorage.The pre-anchorage component must be put into the designed location before casting the concrete. However, post-anchorage means putting anchor into the exact location directly by drilling hole on base material or through the special tools.

The working principle and feature of anchor bolt as below:

### 1.Friction Anchor Bolt

The most typical product of friction anchor bolt is expansion bolt. It's working principle is that the relative moving between cone and intumescent sheet or expansion sleeve makes intumescent sheet expanding, then generates a extruding force as well as a anti-pulling force by shearing rubbing action. Generally, the expansion force can be controlled by torque and displacement during installation.

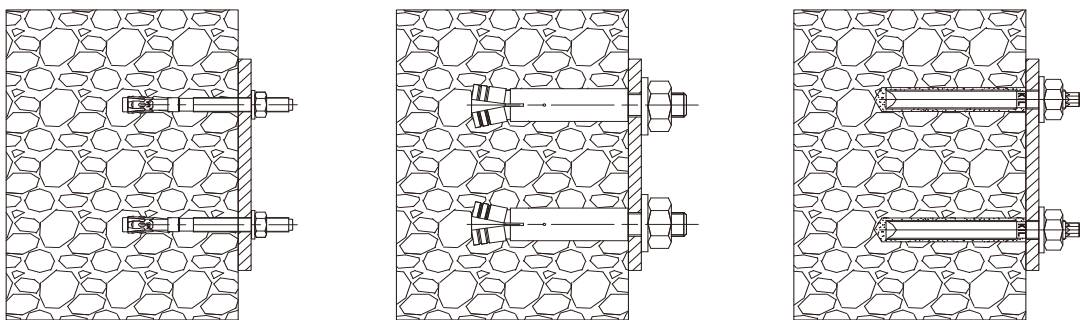


## 2.Undercut Anchor Bolt

Use special drill bit to make a corn-shape hole inside the concrete, once the anchor has been placed in the hole, the expansion sleeve is driven over the cone with setting tool and the undercut drill hole is filled with a positive fit.

## 3.Chemical Bolt and Bonded Rebar

Chemical bolt and bonded rebar is a adhesive post-anchorage system which started late but developed rapidly. This system uses special chemical adhesive to adhere the anchors into concrete .



## 4.Security Level of Anchorage Connection

Currently, there are various of methods for calculating post-anchorage connection design like experienced method, allowable stress method, total safety system method and limit states method. After combining JCJ145-2004<Technical Specification for Post-Installed Fastenings in Concrete Structures>with GB 50068-2001, decide to adopt the limit states design method which is based on experimental study data and engineering experience, in the form of share coefficient to express. According to the severity of failure consequence, post-anchorage connection is classified into two security levels. The design for post-installed fastenings in concrete structures should adopt corresponding security level as per the provision showed in table 1,but not less than the security level of the structure connected.

Table 1

Anchoring Connection Security Level		
Security Level	Failure Consequence	Anchorage Category
Level 1	More serious	Vital Anchoring
Level 2	Serious	Common Anchorage

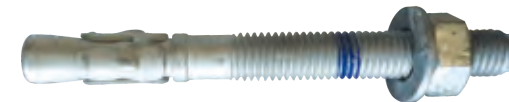
The vital anchorage means the connection to these structural components like cross beam, cantilever beam, truss, grid, large eccentric column and the anchorage connection between non-structural components in lifeline projects. Once failure occur in these connections, the consequence will be very serious, thus set as Level 1.

The common anchorage means the anchoring connection of these small and medium-sized beam slab structure which bears lighter load, and common non-structural components. The failure consequence in these connections is not worse than level 1, thus set as level 2.

## Bolt Anchor MAS Series



MAS-D Galvanized Bolt Anchor



MAS-H Hot-Dip Galvanized Bolt Anchor



MAS-L Stainless Steel Bolt Anchor

### Product Description:

- 1.Small drilling hole diameter, strong tension load and good anti-fatigue performance, safe and reliable.
- 2.Different materials are available for different working environment, Different anti-corrosion performance can meet different project requirement.
- 3.No need the Chemical Adhesion, Applied loads are transferred to substrate via friction between the anchor and the wall of the drilled hole.

### Advantage:

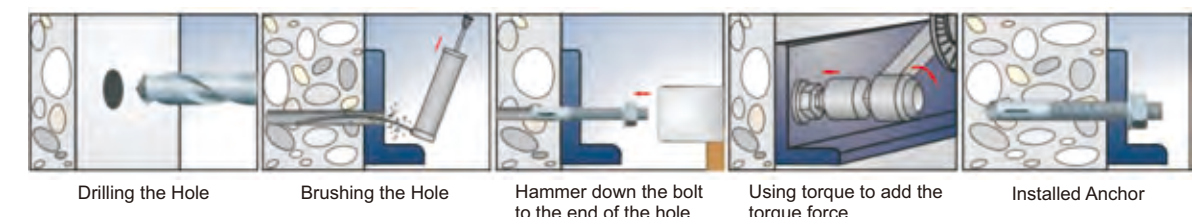
- 1.Wide Application, suitable for different strength of Concrete and other cut-in substrate.
- 2.Simple structure, good corrosion and abrasive resistance,can endure high temperatures and can be welded.
- 3.Suitable for most environments where anchoring adhesive is not suitable for using.
- 4.Loading Force can be assumed immediately after installation, no more waiting, Easy and quick installation.

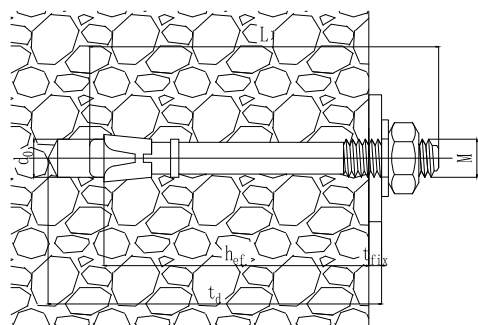
### Application:

- 1.Suitable for standard concrete from C20/C25 to C50/C60 and also rebar concrete.
- 2.Suitable for Non-cracking concrete (concrete compressive zone).
- 3.Suitable for Anchoring under static load (self-weight, installation and support).
- 4.Stainless Steel material can be used in dry indoor and out door (Industrial atmospheric and coastal environment), and also Non-corrosive humid indoor environment.

### Used to Fix:

- 1.Steel Structure 2.Balustrade 3.Cantilever Bracket 4.Handrail 5.Cable Bridge 6.Machinery Equipment 7.Staircase 8.Window and Door 9.Curtain Wall etc





### Installation Data

MAS-D Galvanized Bolt Anchor							
Model	Product Size	Drilling Hole Diameter [mm]	Max Thickness of Fixture [mm]	Effective Embedded Depth [mm]	Min Drilling Hole Depth [mm]	Packing (Unit)	Code
MAS-D-6B	6x55	6	5	35	45	100	159201000001
MAS-D-8F	8x95	8	35	40	50	50	159201000004
MAS-D-10D	10x95	10	20	50	65	50	159201000006
MAS-D-10H	10x130	10	55	50	65	20	159201000008
MAS-D-12C	12x100	12	10	60	75	20	159201000009
MAS-D-12E	12x120	12	30	60	75	20	159201000010
MAS-D-12I	12x150	12	60	60	75	20	159201000011
MAS-D-16D	16x140	16	20	80	100	10	159201000012
MAS-D-16I	16x180	16	60	80	100	10	159201000013
MAS-D-20D	20x170	20	20	100	125	10	159201000014

### Installation Data

MAS-H Hot-Dip Galvanized Bolt Anchor							
Model	Product Size	Drilling Hole Diameter [mm]	Max Thickness of Fixture [mm]	Effective Embedded Depth [mm]	Min Drilling Hole Depth [mm]	Packing (Unit)	Code
MAS-H-6B	6x55	6	5	35	45	100	159201000015
MAS-H-8F	8x95	8	35	40	50	50	159201000018
MAS-H-10D	10x95	10	20	50	65	50	159201000020
MAS-H-10H	10x130	10	55	50	65	20	159201000022
MAS-H-12C	12x100	12	10	60	75	20	159201000023
MAS-H-12E	12x120	12	30	60	75	20	159201000024
MAS-H-12I	12x150	12	60	60	75	20	159201000025
MAS-H-16D	16x140	16	20	80	100	10	159201000026
MAS-H-16I	16x180	16	60	80	100	10	159201000027
MAS-H-20D	20x170	20	20	100	125	10	159201000028

MAS-L Stainless Steel Bolt Anchor							
Model	Product Size	Drilling Hole Diameter [mm]	Max Thickness of Fixture [mm]	Effective Embedded Depth [mm]	Min Drilling Hole Depth [mm]	Packing (Unit)	Code
MAS-L-6B	6x55	6	5	30	45	100	159201000029
MAS-L-8F	8x95	8	35	40	95	50	159201000030
MAS-L-8I	8x120	8	60	40	50	50	159201000031
MAS-L-10B	10x80	10	5	50	65	20	159201000032
MAS-L-10G	10x115	10	40	50	65	20	159201000033
MAS-L-12C	12x100	12	10	60	75	20	159201000034
MAS-L-12I	12x150	12	60	60	75	20	159201000035
MAS-L-16D	16x140	16	20	80	100	10	159201000036

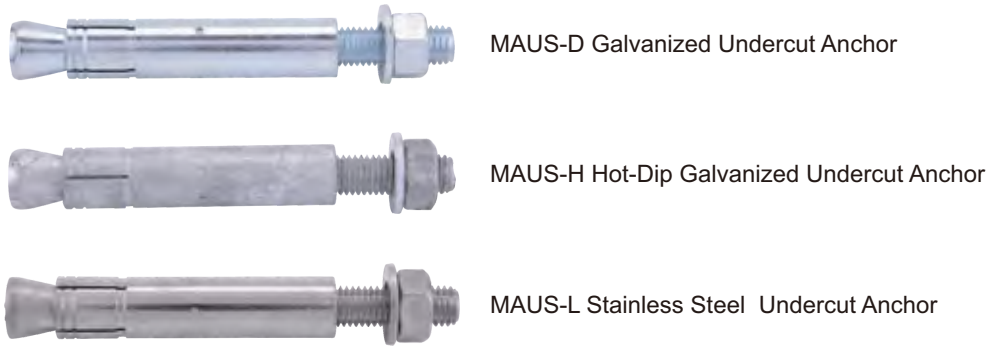
Technical Data

MAS Bolt Anchor Technical Data(C30 Non-Cracking concrete,standard embedded depth)							
Anchor Specification	Material	MAS-6	MAS-8	MAS-10	MAS-12	MAS-16	MAS-20
MAS Effective Anchoring Depth [mm]		30	40	50	60	80	100
Drilling Hole Diameter [mm]		6	8	10	12	16	20
Design Load $N_{rd}$ & $V_{rd}$							
Tension Load $N_{rd}$ [KN]	5.8	3.2	5.3	7.9	11.1	19.2	29.8
	A4	3.2	5.3	7.9	11.1	19.2	-
Shear Load $V_{rd}$ [KN]	5.8	2.8	5.7	8.6	14.0	26.1	40.8
	A4	3.1	5.8	8.6	15.8	29.4	-
Substrate Size, Min Edge Distance & Spacing							
Eigenvalue Spacing $S_{cr, N}$ [mm]		$3 \cdot h_{ef}$					
Eigenvalue Edge Distance $C_{cr, N}$ [mm]		$1.5 \cdot h_{ef}$					
Minimum Spacing $S_{min}$ [mm]		36	48	60	72	96	120
Minimum Edge Distance $C_{min}$ [mm]		48	64	80	96	128	160
Substrate Min Thickness MAS $h_{min}$ [mm]		100	100	100	100	112	140
Drill Hole Diameter of Fixture $d_{\leq}$ [mm]		7	9	12	14	18	22
Installation Torque Force $T_{inst}$ [Nm]		5	15	30	55	100	200

Note:

- 1.This Technical Data's designed load for each anchor suitable for: Meet minimum substrate thickness, Without the effect of Spacing and Edge Distance, With the correct installation.
- 2.This Technical Data base on C30 Concrete, if the concrete grade change, please kindly increase the influence coefficient of the concrete strength according to the standard.
- 3.This Technical data's designed load includes the safety factor of material itemized.
- 4.Please kindly contact our staff if need the limited load for each anchor,we will provide you the official test report.

Undercut Anchor MAUS Series

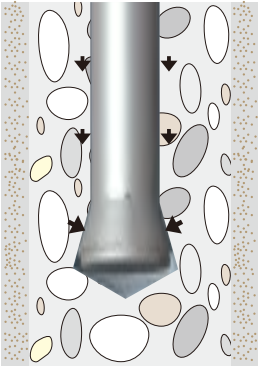


Product Description:

- 1.Applied load is transferred to the substrate by mechanical interlock-the result of interaction between the anchor form and the cavity form.
- 2.High Load, suitable for impacting load and seismic load.
- 3.Undercut anchor has the real mechanical interlock.
- 4.Undercut anchor consist of cone bolt, expansion sleeve, washer and nut.

Advantage:

1. High Load, Wide Application.
- 2.Stress-free, also suitable for small edge distance installation, save the cost.
- 3.The expansion sleeve can open extremely and reach the ideal load force.
- 4.Loading Force can be assumed immediately after installation, no more waiting (compare with Chemical Anchor).



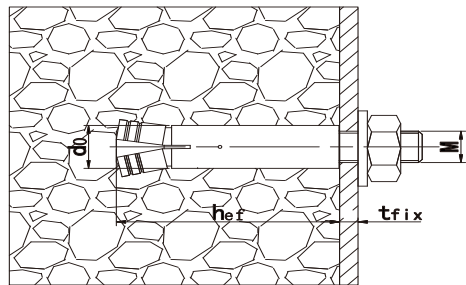
Application:

- 1.Suitable for standard concrete from C20/C25 to C50/C60 and also rebar concrete.
- 2.Suitable for cracking concrete (concrete tensile zone) & Non-cracking concrete (concrete compressive zone).
- 3.Suitable for cracking concrete C12/C15, Natural dense stone,solid brick, limesand brick and etc.

Used to Fix:

- 1.Steel Structure 2.Balustrade 3.Cantilever Bracket 4.Handrail 5.Cable Bridge 6.Machinery Equipment 7.Staircase 8.Window and Door 9.Curtain Wall etc





Installation Data

Installation Data-Pre-Embedded Type										
Undercut Anchor										
MAUS Galvanized										
Model	Anchor Size	Drilling Bit Diameter d <sub>b</sub> [mm]	Drilling Hole Depth h <sub>b</sub> [mm]	Effective Anchoring Depth h <sub>e</sub> [mm]	Max Thickness of Fixture t	Bolt Size M	Drill Hole Diameter of Fixture R	Wrench Size SW	Packing (Unit)	Code
MAUS-D-10	M10*100	14	63	60	25	M10	12	17	10	159202000026
MAUS-D-12A	M12*130	18	83	80	25	M12	14	19	10	159202000028
MAUS-D-12B	M12*160	18	83	80	55	M12	14	19	10	159202000030
MAUS-D-16A	M16*195	22	103	100	60	M16	18	24	10	159202000032
MAUS-D-16B	M16*220	22	127	125	60	M16	18	24	6	159202000034

Installation Data-Pre-Embedded Type										
Undercut Anchor										
MAUS Hot Dip Galvanized										
Model	Anchor Size	Drilling Bit Diameter d <sub>b</sub> [mm]	Drilling Hole Depth h <sub>b</sub> [mm]	Effective Anchoring Depth h <sub>e</sub> [mm]	Max Thickness of Fixture t	Bolt Size M	Drill Hole Diameter of Fixture R	Wrench Size SW	Packing (Unit)	Code
MAUS-H-10	M10*100	14	63	60	25	M10	12	17	10	159202000003
MAUS-H-12A	M12*130	18	83	80	25	M12	14	19	10	159202000004
MAUS-H-12B	M12*160	18	83	80	55	M12	14	19	10	159202000005
MAUS-H-16A	M16*195	22	103	100	60	M16	18	24	10	159202000006
MAUS-H-16B	M16*220	22	127	125	60	M16	18	24	6	159202000007

Installation Data-Pre-Embedded Type										
Undercut Anchor										
MAUS Sherardized										
Model	Anchor Size	Drilling Bit Diameter d <sub>b</sub> [mm]	Drilling Hole Depth h <sub>b</sub> [mm]	Effective Anchoring Depth h <sub>e</sub> [mm]	Max Thickness of Fixture t	Bolt Size M	Drill Hole Diameter of Fixture R	Wrench Size SW	Packing (Unit)	Code
MAUS-S-10	M10*100	14	63	60	25	M10	12	17	10	159202000027
MAUS-S-12A	M12*130	18	83	80	25	M12	14	19	10	159202000029
MAUS-S-12B	M12*160	18	83	80	55	M12	14	19	10	159202000031
MAUS-S-16A	M16*195	22	103	100	60	M16	18	24	10	159202000033
MAUS-S-16B	M16*220	22	127	125	60	M16	18	24	6	159202000035

Installation Data-Pre-Embedded Type										
Undercut Anchor										
MAUS Stainless Steel										
Model	Anchor Size	Drilling Bit Diameter d <sub>b</sub> [mm]	Drilling Hole Depth h <sub>b</sub> [mm]	Effective Anchoring Depth h <sub>e</sub> [mm]	Max Thickness of Fixture t	Bolt Size M	Drill Hole Diameter of Fixture R	Wrench Size SW	Packing (Unit)	Code
MAUS-L-10	M10*100	14	63	60	25	M10	12	17	10	159202000036
MAUS-L-12A	M12*130	18	83	80	25	M12	14	19	10	159202000037
MAUS-L-12B	M12*160	18	83	80	55	M12	14	19	10	159202000038
MAUS-L-16A	M16*195	22	103	100	60	M16	18	24	10	159202000039
MAUS-L-16B	M16*220	22	127	125	60	M16	18	24	6	159202000040



Nylon Frame Anchor NFA Series

Undercut Anchor MAUS Series					
Non-Cracking Concrete					
Anchor Specification	Material	MAUS-10	MAUS-12	MAUS-16A	MAUS-16B
Effective Anchoring Depth $h_{ef}$ [ mm ]		60	80	100	125
Drilling Hole Depth $h_0$ [ mm ]		65	85	105	130
Drilling Hole Diameter $d_0$ [ mm ]		14	18	22	22
Design Load $N_{Rd}$ & $V_{Rd}$					
Tension Load $N_{Rd}$ [ KN ]	8.8	11.1	19.2	29.8	41.7
	A4-70	11.1	19.2	29.8	41.7
Shear Load $N_{Rd}$ [ KN ]	8.8	15.5	22.5	41.8	41.8
	A4-70	10.9	15.4	29.4	29.4
Substrate Condition					
Minimum Spacing $S_{min}$ [ mm ]		60	72	96	96
Minimum Edge Distance $C_{min}$ [ mm ]		60	72	96	96
Min Thickness of Substrate MAUS $h_{min}$ [ mm ]		120	160	200	250

Undercut Anchor MAUS Series					
Cracking Concrete					
Anchor Specification		MAUS-10	MAUS-12	MAUS-16A	MAUS-16B
Effective Anchoring Depth $h_{ef}$ [ mm ]		60	80	100	125
Drilling Hole Depth $h_0$ [ mm ]		65	85	105	130
Drilling Hole Diameter $d_0$ [ mm ]		14	18	22	22
Design Load $N_{Rd}$ & $V_{Rd}$					
Tension Load $N_{Rd}$ [ KN ]	8.8	7.9	13.7	21.3	29.8
	A4-70	7.9	13.7	21.3	29.8
Shear Load $N_{Rd}$ [ KN ]	8.8	15.5	22.5	41.8	41.8
	A4-70	10.9	15.4	29.4	29.4
Substrate Condition					
Minimum Spacing $S_{min}$ [ mm ]		60	72	96	96
Minimum Edge Distance $C_{min}$ [ mm ]		60	72	96	96
Min Thickness of Substrate MAUS $h_{min}$ [ mm ]		120	160	200	250

**Note:**

1.This Technical Data's designed load for each anchor suitable for, Meet minimum substrate thickness, Without the effect of Spacing and Edge Distance, With the correct installation.

2.This Technical Data base on C30 Concrete, if the concrete grade change, please kindly increase the influence coefficient of the concrete strength according to the standard.

3.This Technical data's designed load includes the safety factor of material itemized.

4.Please kindly contact our staff if need the limited load for each anchor,we will provide you the official test report.



Countersunk Screw

Flange head Screw

Product Description:

- 1.Multipurpose fixation, Can be used with stainless steel screws and zinc plated screw.
- 2.Different diameters, lengths and heads provide the best solution for different applications .
- 3.The best match between Nylon anchor and screw makes the installation more convenient and ensures the safety of anchoring.

Advantage:

- 1.Special wing prevent expansion plug turning during penetration installation.
- 2.Knob device prevents expansion plug from turning during drilling.
- 3.Stress-free in plug neck, no damage to leveling and tile.
- 4.Through-through installation and pre-insertion installation.

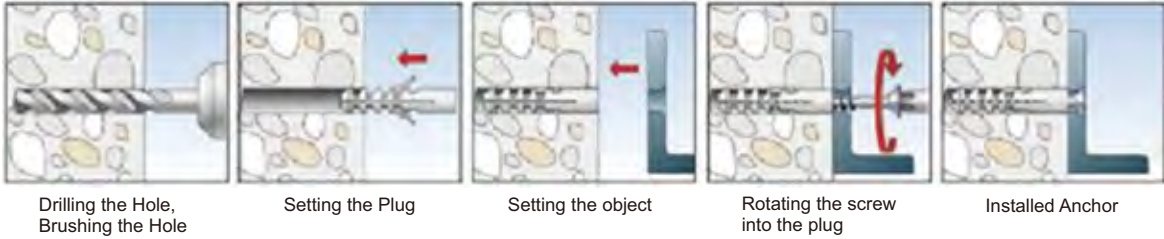
Application:

- 1.Suitable for Non-bearing structure & Multi-point Anchorage system.
- 2.Suitable for standard concrete, masonry wall, Hollow preloading concrete, Reinforced concrete, plasterboard and etc.

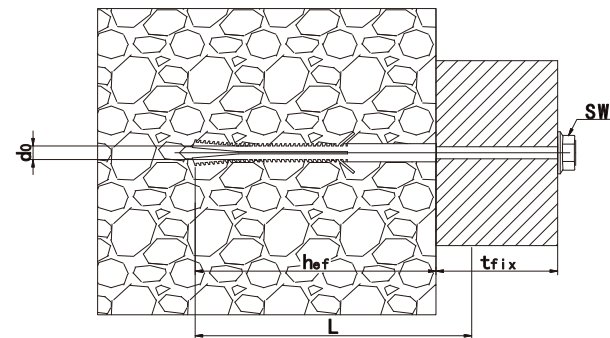
Note:masonry wall including: solid brick, Solid gray sand brick, porous lime brick,Lightweight concrete, hollow brick insulating brick, aerated concrete and etc.

Used to Fix:

- 1.Wooden and steel building enclosures 2.Ceiling 3.Curtain rod 4.Cupboard 5.Towel rack 6. Sign Board 7.Monitor 8.Mail Box 9.Basket of flowers



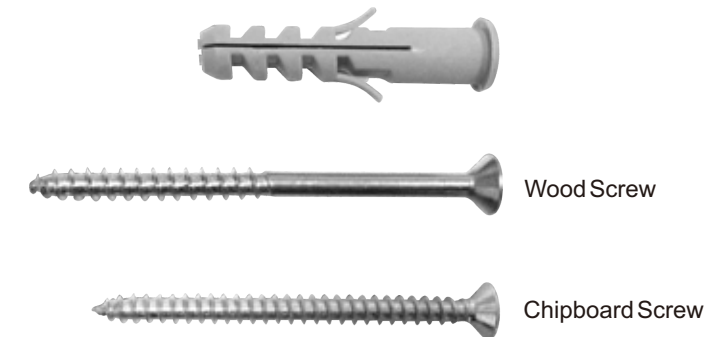




#### Installation Data

Product Size	Plug Diameter x Length	Screw Diameter x Length	Drill Bit Diameter	Drill Hole Depth
NFA-8A	8X60	5.2X65	8	70
NFA-8B	8X80	5.2X85	8	90
NFA-8C	8X100	5.2X105	8	110
NFA-8D	8X120	5.2X125	8	130
NFA-10A	10X80	6.85X85	10	90
NFA-10B	10X100	6.85X105	10	110
NFA-10C	10X120	6.85X125	10	130
NFA-10D	10X140	6.85X145	10	150
NFA-10E	10X160	6.85X165	10	170

## Nylon Plug NYA Series



#### Product Description:

1. Multipurpose fixation, Can be used with stainless steel screws and zinc plated screw.
2. Different diameters, lengths and heads provide the best solution for different applications .
3. The best match between Nylon Anchor and screw makes the installation more convenient and ensures the safety of anchoring.

#### Advantage:

1. Special wing prevent expansion plug turning during penetration installation.
2. Knob device prevents expansion plug from turning during drilling.
3. Stress-free in plug neck, no damage to leveling and tile.
4. Through-through installation and pre-insertion installation.

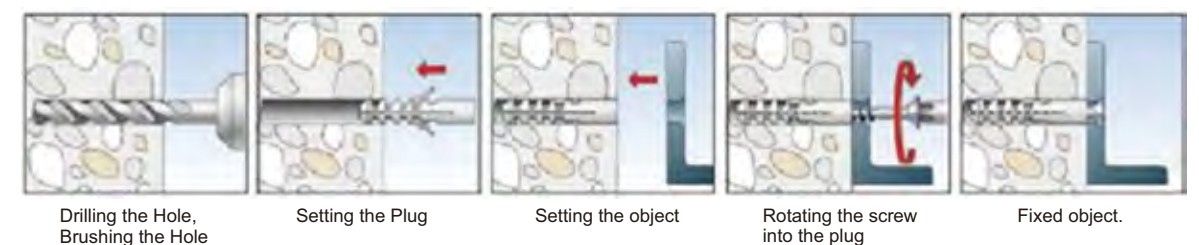
#### Application:

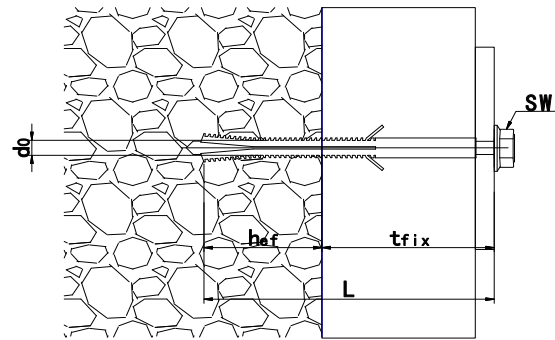
1. Suitable for Non-bearing structure & Multi-point Anchorage system.
2. Suitable for standard concrete, masonry wall, Hollow preloading concrete, Reinforced concrete, plasterboard and etc.

Note: masonry wall including: solid brick, Solid gray sand brick, porous lime brick, Lightweight concrete, hollow brick insulating brick, aerated concrete and etc.

#### Used to Fix:

1. Wooden and steel building enclosures
2. Ceiling
3. Curtain rod
4. Cupboard
5. Towel rack
6. Sign Board
7. Monitor
8. Mail Box
9. Basket of flowers

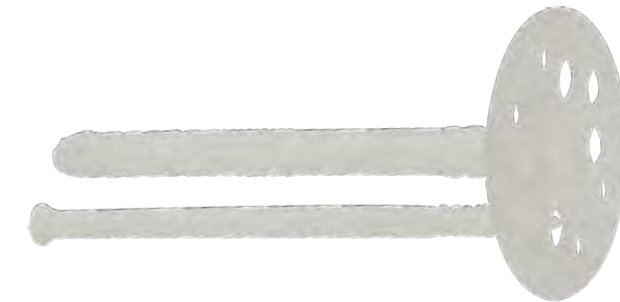




#### Installation Data

Product Size	Plug Diameter x Length	Screw Diameter	Drill Bit Diameter	Drilling Hole Depth
NYA-6	6X30	4.5	6	40
NYA-8	8X40	5	8	55
NYA-10	10X50	6	10	70

## Nylon Insulation Anchor NIA Series



#### Product Description:

1. Multipurpose fixation, Can be used with stainless steel screws and zinc plated screw.
2. Different diameters, lengths and heads provide the best solution for different applications .
3. The best match between Nylon Insulation Anchor and screw makes the installation more convenient and ensures the safety of anchoring.

#### Advantage:

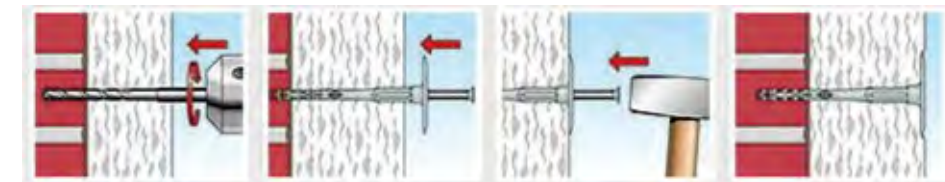
1. The expansion plate can ensure the continuous pressure of the anchor on the insulation material.
2. Short drilling depth, save time for drilling hole.
3. Hammer in installation, easy and fast.

#### Application:

Suitable for fixed open curtain wall soft or compressive insulation materials, etc.

#### Used to Fix:

1. Rock wool Insulation board
2. Mineral wool
3. PU Board
4. Light insulation board made of kapok
5. Cork palm board
6. Poly ( ethylene - propylene ) board
7. Foamed glass board etc.

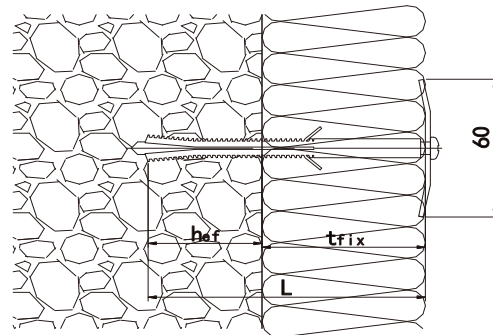


Drilling the Hole,  
Brushing the Hole

Putting Insulation Anchor  
into the hole, Pressing plate  
close to insulation material

Tapping screw

Installed Anchor



#### Installation Data

Nylon Insulation Anchor NIA Series			
Product Size	Plug Diameter x Length	Drill Bit Diameter $d_0$ [mm]	Drilling Hole Depth $h_0$ [mm]
NIA-10A	10X70	10	70
NIA-10B	10X80	10	80
NIA-10C	10X90	10	90
NIA-10D	10X100	10	100
NIA-10E	10X110	10	110
NIA-10F	10X130	10	130
NIA-10G	10X150	10	150
NIA-10H	10X180	10	180
NIA-10I	10X200	10	200
NIA-10J	10X220	10	220

## Chemical Anchor CAS Series



CAS-D Galvanized Bolt



CAS-L Stainless Steel Bolt



CAS-H Hot-Dip Galvanized Bolt



CAG Chemical Glass Capsule

#### Product Description:

1. Chemical Glass Capsule consists of Vinyl ester resin, silica sand and hardener.
2. Glass package is easy to check quality of inside resin, once the glass tube crushed, it acts as an aggregate.

#### Advantage:

1. Resistant to acids, alkalis, heat, Low sensitivity to temperature.
2. Stress-free on substrate.
3. No strict requirement with installation spacing and edge distance.
4. Fast and easy installation, quick curing time, no influence on project schedule.
5. Strong anchoring force, same like embedded.
6. Styrene-free, Safety and environmental protection.

#### Application:

1. Suitable for standard concrete from C20/C25 to C50/C60 and also rebar concrete.
2. Suitable for Non-cracking concrete (concrete compressive zone).
3. Suitable for Anchoring under static load (self-weight, installation and support).
4. Stainless Steel CAS can be used in dry indoor and out door (Industrial atmospheric and coastal environment), and also Non-corrosive humid indoor environment.

#### Used to Fix:

1. Steel Structure
2. Balustrade
3. Cantilever Bracket
4. Handrail
5. Cable Bridge
6. Machinery Equipment
7. Staircase
8. Window and Door
9. Curtain Wall etc



Drilling the Hole,  
Brushing the Hole

Setting the Glass Capsule  
into the Hole

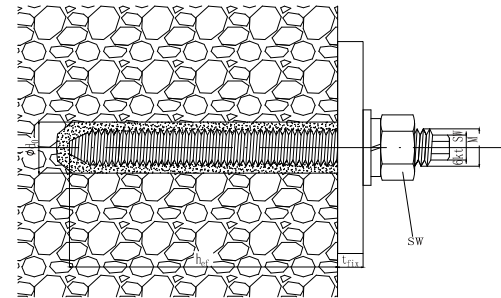
Rotating the bolt to  
the bottom of the Hole

Waiting for curing according  
to product curing time data.

Fixed Anchorage



### Installation Data



CAS-D Galvanized Chemical Anchor Bolt									
Model	Product Specification	Drilling Bit Diameter $d_0$	Drilling Hole Depth $h_0$	Effective Anchoring Depth $h_e$	Max Thickness of Fixture	Wrench Size SW	Matched Glass Capsule	Packing (Unit)	Code
CAS-D-8P	M8*110	10	80	80	13	13	CAG-M8	10	159100000001PM
CAS-D-10P	M10*130	12	90	90	20	17	CAG-M10	10	159100000002PM
CAS-D-12P	M12*160	14	110	110	25	19	CAG-M12	10	159100000003PM
CAS-D-16P	M16*190	18	125	125	35	24	CAG-M16	10	159100000004PM
CAS-D-20P	M20*260	25	170	170	65	30	CAG-M20	10	159100000005PM
CAS-D-24P	M24*300	28	210	210	65	36	CAG-M24	5	159100000006PM

CAS-L Stainless Steel Chemical Anchor Bolt									
Model	Product Specification	Drilling Bit Diameter $d_0$	Drilling Hole Depth $h_0$	Effective Anchoring Depth $h_e$	Max Thickness of Fixture	Wrench Size SW	Matched Glass Capsule	Packing (Unit)	Code
CAS-L-8P	M8*110	10	80	80	13	13	CAG-M8	10	159100000013PM
CAS-L-10P	M10*130	12	90	90	20	17	CAG-M10	10	159100000014PM
CAS-L-12P	M12*160	14	110	110	25	19	CAG-M12	10	159100000015PM
CAS-L-16P	M16*190	18	125	125	35	24	CAG-M16	10	159100000016PM
CAS-L-20P	M20*260	25	170	170	65	30	CAG-M20	10	159100000017PM
CAS-L-24P	M24*300	28	210	210	65	36	CAG-M24	5	159100000018PM

CAS-H Hot-Dip Galvanized Chemical Anchor Bolt									
Model	Product Specification	Drilling Bit Diameter $d_0$	Drilling Hole Depth $h_0$	Effective Anchoring Depth $h_e$	Max Thickness of Fixture	Wrench Size SW	Matched Glass Capsule	Packing (Unit)	Code
CAS-H-8P	M8*110	10	80	80	13	13	CAG-M8	10	159100000007PM
CAS-H-10P	M10*130	12	90	90	20	17	CAG-M10	10	159100000008PM
CAS-H-12P	M12*160	14	110	110	25	19	CAG-M12	10	159100000009PM
CAS-H-16P	M16*190	18	125	125	35	24	CAG-M16	10	159100000010PM
CAS-H-20P	M20*260	25	170	170	65	30	CAG-M20	10	159100000011PM
CAS-H-24P	M24*300	28	210	210	65	36	CAG-M24	5	159100000012PM

### Technical Data

Technical data for Chemical anchor CAS in Non-cracking Concrete												
Anchor Size	CAS-8		CAS-10		CAS-12		CAS-16		CAS-20		CAS-24	
Steel Type	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel
Steel Grade	5.8	A4-70	5.8	A4-70	5.8	A4-70	5.8	A4-70	5.8	A4-70	5.8	A4-70
Effective Anchoring Depth $h_{ef}$ [ mm ]	80		90		110		125		170		210	
Drilling Depth $h_0 \geq$ [ mm ]	80		90		110		125		170		210	
Drilling Diameter $d_0$ [ mm ]	10		12		14		18		25		28	
Design Load $N_{Rd} \& V_{Rd}$												
Tension Load $N_{Rd}$ [ kn ]	11.4	12.8	19.36	21.7	28.1	31.6	41.7	41.7	66.1	66.1	90.7	90.7
Shear Load $V_{Rd}$ [ kn ]	5.7	6.4	9.7	10.9	14.1	15.8	26.1	29.4	40.8	45.9	58.7	66.1
Substrate Size, Min Edge Distance&Spacing												
Eigenvalue Spacing $S_{cr, N}$ [ mm ]	240		270		330		375		510		630	
Eigenvalue Edge Distance $C_{cr, N}$ [ mm ]	120		135		165		188		255		315	
Minimum Spacing $S_{min}$ [ mm ]	48		620		72		96		120		144	
Minimum Edge Distance $C_{min}$ [ mm ]	48		60		72		96		120		144	
Substrate Minimum Thickness $h_{min}$ [ mm ]	100		120		140		160		220		270	
Anchorage Drilling Diameter $d_{\leq}$ [ mm ]	9		12		14		18		22		26	
Matched Glass Capsule CAG	CAG-8		CAG-10		CAG-12		CAG-16		CAG-20		CAG-24	

#### Note:

- 1.This Technical Data's designed load for each anchor suit for, Meet minimum substrate thickness, Without the effect of Spacing and Edge Distance, With the correct installation.
- 2.This Technical Data base on C30 Concrete, if the concrete grade change, please kindly increase the influence coefficient of the concrete strength according to the standard.
- 3.This Technical data's designed load includes the safety factor of material itemized.
- 4.Please kindly contact our staff if need the limited load for each anchor, we will provide you the official test report.

Injection type Chemical Anchor Series



Anchor Adhesive CAM-500



CAS-D Galvanized Bolt



CAS-L Stainless Steel Bolt



CAS-H Hot-Dip Galvanized Bolt

Product Description:

- 1. Product consist of Chemical Anchor Bolt CAS and Anchor Adhesive CAM-500.
- 2.Chemical Anchor Bolt material have Carbon Steel & Stainless Steel, and also have variety of size for choosing.

Advantage:

- 1.Hand Installation, rotating the bolt to the end of the hole.
- 2.Variaty of bolt sizes for choosing, meet different anchoring depth requirement.
- 3.Stress-free on substrate.
- 4.No strict requirement with installation spacing and edge distance.
- 5.Strong anchoring force, same like embedded.
- 6.Styrene-free, Safety and environmental protection.

Application:

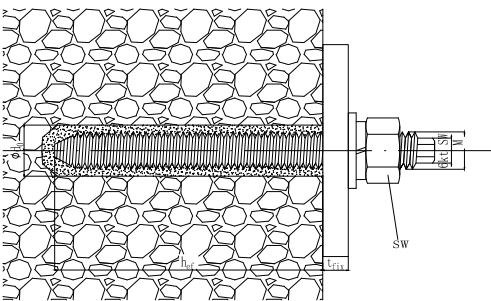
- 1.Suitable for standard concrete from C20/C25 to C50/C60 and also rebar concrete.
- 2.Suitable for Non-cracking concrete (concrete compressive zone).
- 3.Suitable for Anchoring under static load ( self-weight, installation and support).
- 4.Stainless Steel CAS can be used in dry indoor and out door (Industrial atmospheric and coastal environment), and also Non-corrosive humid indoor environment.

Used to Fix:

- 1.Steel Structure 2.Balustrade 3.Cantilever Bracket 4.Handrail 5.Cable Bridge 6.Machinery Equipment
- 7.Staircase 8.Window and Door 9.Curtain Wall etc



Drilling the Hole, Brushing the Hole  
Throw the first mixed resin away until the color of the mixed resin is exactly same.  
Filling the resin from the bottom of the hole until more than 2/3 of the hole.  
Rotating the bolt to the bottom of the hole  
Waiting for curing according to product curing time data.  
Fixed Anchorage



Installation Data

CAS-D Galvanized Chemical Anchor Bolt							
Model	Product Description	Drilling Bit Diameter d <sub>0</sub>	Drilling Depth h <sub>0</sub>	Effective Anchoring Depth h <sub>ef</sub>	Max Thickness of Fixture t	Wrench Size SW	Packing(unit)
CAS-D-8	M8*110	10	80	80	13	13	10
CAS-D-10	M10*130	12	90	90	20	17	10
CAS-D-12	M12*160	14	110	110	25	19	10
CAS-D-16	M16*190	18	125	125	35	24	10
CAS-D-20	M20*260	25	170	170	65	30	10
CAS-D-24	M24*300	28	210	210	65	36	5

CAS-H Hot-Dip Galvanized Chemical Anchor Bolt							
Model	Product Description	Drilling Bit Diameter d <sub>0</sub>	Drilling Depth h <sub>0</sub>	Effective Anchoring Depth h <sub>ef</sub>	Max Thickness of Fixture t	Wrench Size SW	Packing(unit)
CAS-H-8	M8*110	10	80	80	13	13	10
CAS-H-10	M10*130	12	90	90	20	17	10
CAS-H-12	M12*160	14	110	110	25	19	10
CAS-H-16	M16*190	18	125	125	35	24	10
CAS-H-20	M20*260	25	170	170	65	30	10
CAS-H-24	M24*300	28	210	210	65	36	5

CAS-L Stainless Steel Chemical Anchor Bolt							
Model	Product Description	Drilling Bit Diameter d <sub>0</sub>	Drilling Depth h <sub>0</sub>	Effective Anchoring Depth h <sub>ef</sub>	Max Thickness of Fixture t	Wrench Size SW	Packing(unit)
CAS-L-8	M8*110	10	80	80	13	13	10
CAS-L-10	M10*130	12	90	90	20	17	10
CAS-L-12	M12*160	14	110	110	25	19	10
CAS-L-16	M16*190	18	125	125	35	24	10
CAS-L-20	M20*260	25	170	170	65	30	10
CAS-L-24	M24*300	28	210	210	65	36	5

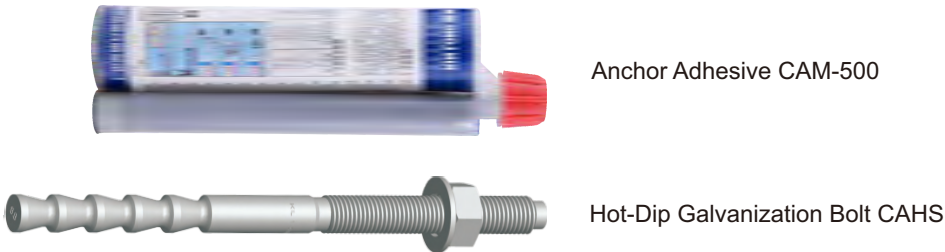
Technical Data

Technical data for Chemical anchor CAS in Non-cracking Concrete												
Anchor Size	CAS-8		CAS-10		CAS-12		CAS-16		CAS-20		CAS-24	
Steel Type	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel	Carbon Steel	Stainless Steel
Steel Grade	5.8	A4-70	5.8	A4-70	5.8	A4-70	5.8	A4-70	5.8	A4-70	5.8	A4-70
Effective Anchoring Depth $h_{ef}$ [ mm ]	80		90		110		125		170		210	
Drilling Depth $h_o \geq$ [ mm ]	80		90		110		125		170		210	
Drilling Diameter $d_o$ [ mm ]	10		12		14		18		25		28	
Design Load $N_{Rd} \& V_{Rd}$												
Tension Load $N_{Rd}$ [ kn ]	11.4	12.8	19.3	21.7	28.1	31.6	41.7	41.7	66.1	66.1	90.7	90.7
Shear Load $V_{Rd}$ [ kn ]	5.7	6.4	9.7	10.9	14.1	15.8	26.1	29.4	40.8	45.9	58.7	66.1
Substrate Size, Minimum Edge Distance&Spacing												
Eigenvalue Spacing $S_{cr, N}$ [ mm ]	240		270		330		375		510		630	
Eigenvalue Edge Distance $C_{cr, N}$ [ mm ]	120		135		165		188		255		315	
Minimum Spacing $S_{min}$ [ mm ]	48		60		72		96		120		144	
Minimum Edge Distance $C_{min}$ [ mm ]	48		60		72		96		120		144	
Substrate Minimum Thickness $h_{min}$ [ mm ]	100		120		140		160		220		270	
Anchorage Drilling Diameter $d_{\leq}$ [ mm ]	9		12		14		18		22		26	

Note:

- 1.This Technical Data's designed load for each anchor suitable for, Meet minimum substrate thickness, Without the effect of Spacing and Edge Distance, With the correct installation.
- 2.This Technical Data base on C30 Concrete, if the concrete grade change, please kindly increase the influence coefficient of the concrete strength according to the standard.
- 3.This Technical data's designed load includes the safety factor of material itemized.
- 4.Please kindly contact our staff if need the limited load for each anchor,we will provide you the official test report.

High Bonded Anchor CAHS Series

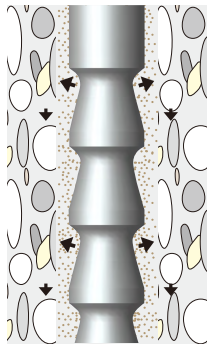


Product Description:

- 1.CAHS Series should be used with CAM-500 chemical mortar.
- 2.Applied loads are transferred to the substrate by adhesion and interlock, could use for cracked concrete.
- 3.Double interlock,good performance and strong anchoring force.
- 4.The Tension Load and Shearing Load can reach under long term load, cyclic load and seismic load.
- 5.Product consists of cone shape anchor, CAM-500 chemical mortar, washer and nut.

Advantage:

- 1.The installation is similar as chemical anchor, easy and fast.
- 2.The High Boned Anchor can be used in cracking tensile zone, thus ensure the project safety.
- 3.stress-free during the anchorage, can meet the minimum edge and minimum spacing installation, thus save the project cost.
- 4.Cone shape increase the contact area of adhesive/concrete, ensure the anchorage more safety and reliable.

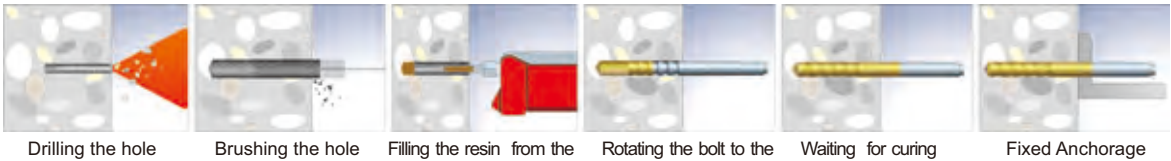


Application:

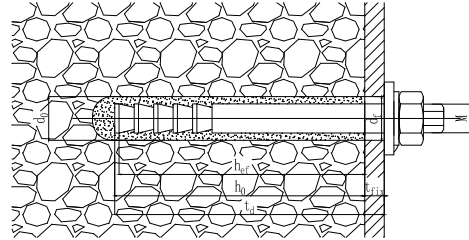
- 1.Suitable for standard concrete from C20/C25 to C50/C60 and also rebar concrete.
- 2.Suitable for cracking concrete (concrete tension zone) and Non-cracking concrete(concrete compressive zone).
- 3.Suitable for Humid concrete installation.
- 4.Suitable for Anchoring under static load ( self-weight, installation and support).
- 5.Stainless Steel CAHS can be used in dry indoor and out door(Industrial atmospheric and coastal environment), and also Non-corrosive humid indoor environment.

Used to Fix:

- 1.Steel Structure 2.Balustrade 3.Cantilever Bracket 4.Handrail 5.Cable Bridge 6.Machinery Equipment 7.Staircase 8.Window and Door 9.Curtain Wall etc







Installation Data

Installation for Pre-Embedded Type										
High Boned Anchor										
Hot-Dip Galvanization CAHS Grade 8.8										
Model	Product Description	Bolt Size M	Drilling Bit Diameter d <sub>0</sub>	Drilling Depth h <sub>0</sub>	Effective Anchoring Depth h <sub>ef</sub>	Max Thickness of Fixture t	Wrench Size SW	Installation Torque Force T	Packing (unit)	Code
CAHS-H-10	M10*130	M10	12	95	90	20	17	20	10	159103000001
CAHS-H-12A	M12*160	M12	14	115	110	25	19	40	10	159103000002
CAHS-H-16	M16*190	M16	18	130	125	30	24	60	10	159103000004
CAHS-H-20	M20*260	M20	25	175	170	50	30	100	10	159103000005
CAHS-H-24	M24*300	M24	28	225	220	50	36	120	5	159103000006

Installation for Pre-Embedded Type										
High Boned Anchor										
Stainless Steel CAHS										
Model	Product Description	Bolt Size M	Drilling Bit Diameter d <sub>0</sub>	Drilling Depth h <sub>0</sub>	Effective Anchoring Depth h <sub>ef</sub>	Max Thickness of Fixture t	Wrench Size SW	Installation Torque Force T	Packing (unit)	Code
CAHS-L-10	M10*130	M10	12	95	90	20	17	20	10	1591030000007
CAHS-L-12A	M12*160	M12	14	115	110	25	19	40	10	1591030000008
CAHS-L-16	M16*190	M16	18	130	125	30	24	60	10	1591030000010
CAHS-L-20	M20*260	M20	25	175	170	50	30	100	10	1591030000011
CAHS-L-24	M24*300	M24	28	225	220	50	36	120	5	1591030000012

Technical Data

High Bonded Anchor										
Anchor Size	CAHS-10		CAHS-12		CAHS-16		CAHS-20		CAHS-24	
Bolt	M10		M12		M16		M20		M24	
Steel Grade	8.8 grade carbon steel	A4-70	8.8 grade carbon steel	A4-70	8.8 grade carbon steel	A4-70	8.8 grade carbon steel	A4-70	8.8 grade carbon steel	A4-70
Drilling Diameter d <sub>0</sub> [mm]	12		14		18		25		28	
Drilling Depth h <sub>0</sub> ≥ [mm]	95		115		130		175		215	
Effective Anchoring Depth h <sub>ef</sub> [mm]	90		110		125		170		210	
Anchorage Drilling Diameter d <sub>f</sub> [mm]	12		14		18		22		26	
Installation Torque Force T [Nm]	20		40		60		100		120	
Minimum Substrate Thickness h <sub>min</sub> [mm]	120		140		160		220		270	
Minimum Spacing S <sub>min</sub> [mm]	60		72		96		120		144	
Minimum Edge Distance C <sub>min</sub> [mm]	60		72		96		120		144	

Designed load for each anchor under large spacing & edge										
Non-Cracking Concrete										
Tension Force C30/C35 N <sub>Rd</sub> [KN]	24.2	21.7	34.4	31.6	41.7	41.7	66.1	66.1	90.7	90.7
Shear Force ≥C30/C35 V <sub>Rd</sub> [KN]	15.5	10.9	22.5	15.8	41.8	29.4	65.3	45.9	94	66.1
Cracking Concrete										
Tension Force C30/C35 N <sub>Rd</sub> [KN]	17.3	17.3	24.6	24.6	29.8	29.8	47.2	47.2	64.8	64.8
Shear Force ≥C30/C35 V <sub>Rd</sub> [KN]	15.5	10.9	22.5	15.8	41.8	29.4	65.3	45.9	94	66.1

- Note:
- 1.This Technical Data's designed load for each anchor suitable for, Meet minimum substrate thickness, Without the effect of Spacing and Edge Distance, with the correct installation.
  - 2.This Technical Data base on C30 Concrete, if the concrete grade change, please kindly increase the influence coefficient of the concrete strength according to the standard.
  - 3.This Technical data's designed load includes the safety factor of material itemized.
  - 4.Please kindly contact our staff if need the limited load for each anchor,we will provide you the official test report.

Anchor Adhesive CAM-500 Series



CAM-500

Substrate:

Concrete  
Natural Stone

Advantages:

- 1.High adhesive force, satisfied with the high bearing capacity in the concrete.
- 2.Durable.
- 3.Special application in wet land, drilling stone, drilling hole,oversize drilling.
- 4.Safety, environmental protection, non-toxic, tasteless.
- 5.Good thermal adaptability.
- 6.More time for adjustment of rebar.
- 7.Save more time and labor cost.
- 8.Easy application and supervision, available to outdoor and indoor.

Product Description:

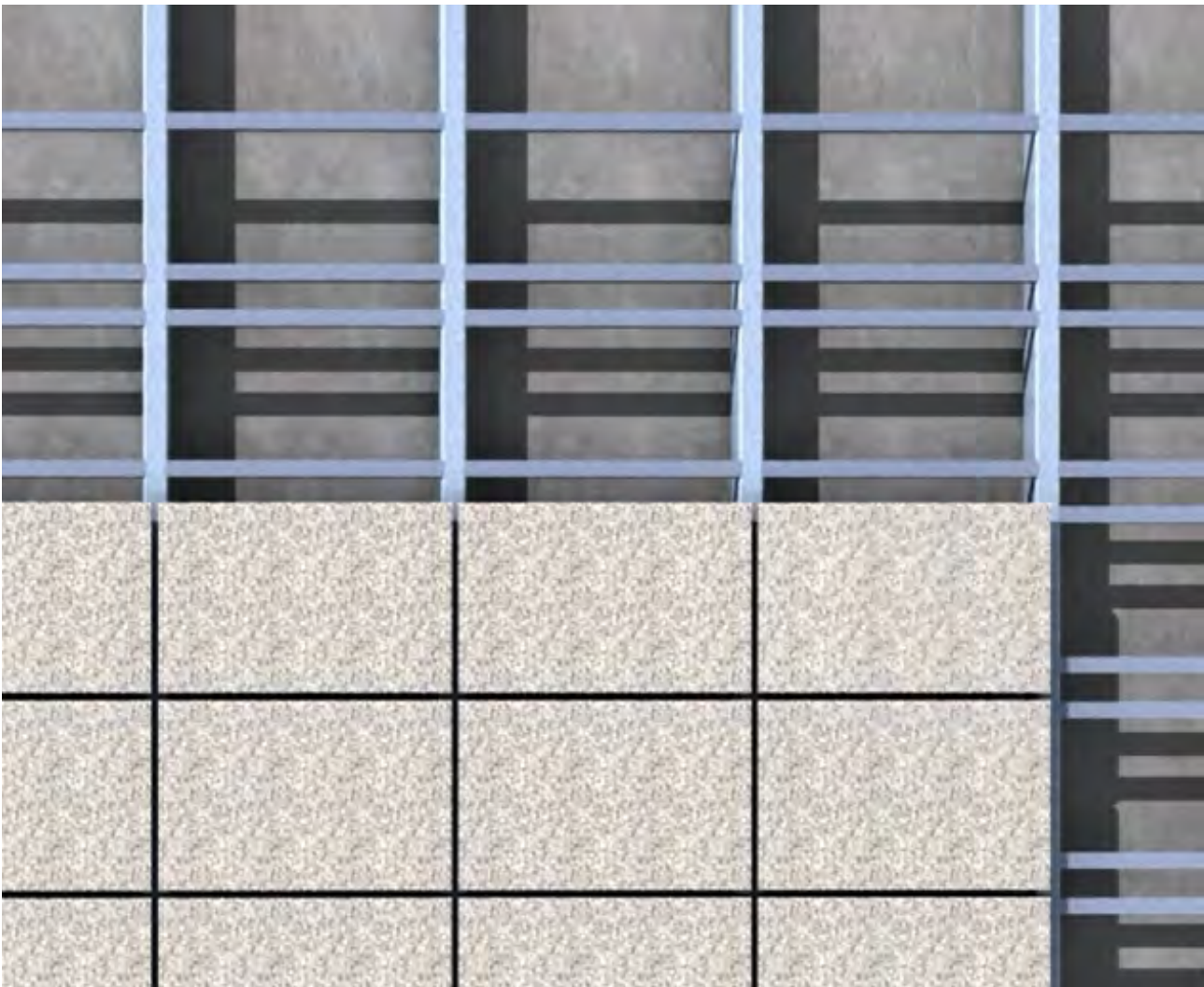
- 1.Injected by special syringe, two chemicals mixed to work in the mixing tube.
- 2.When harden after open, it can be continued to use after exchanging for new mixing tube.

Curing time CAM-500

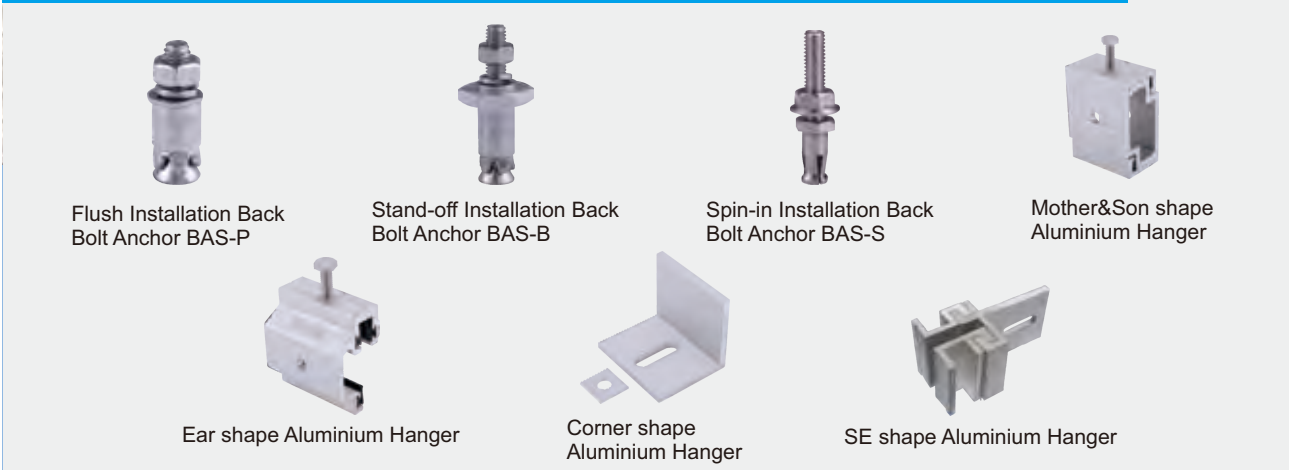
Curing time list		
Base Material Temperature	Work time	Cure time
-5°C	120min	360H
5°C	100min	120H
15°C	60min	96H
25°C	40min	48H
35°C	20min	24H

Notes:

- 1.Dry preservation, storage temperature (+10 C+40 C).
- 2.When harden after open, it can be continued to use after exchanging for new mixing tube.



Kinlong Stone Curtain Wall System



## Back Bolt Anchor Dry-hanging curtain wall system



### Advantage/Benefit:

1. All the Aluminium hangers carry the load of the curtain wall independently, safe and easy to replace the facade panels.
2. Not affected by the changes in the displacement of the main structure or by the variation of the temperature difference, stress-free inside the facade panel, So that can judge and control the state of failure.
3. Reducing the facade panel support spacing and the bending force of the panel, therefore the bending strength can be utilized more fully, then reduce the panel thickness.
4. Using of fixing ventilated cladding, no glue between the panels, looks more deep and three-dimensional. Exudation of corroded stone and adsorption of dust without using the glue, therefore keep the facade panel clean.
5. Can be used in variety of material, for example: natural stone, cast stone, ceramic stoneware. It provides the possibility for designers to use different facade panel materials to make the exterior of buildings more three-dimensional.

## Flush Installation Back Bolt Anchor BAS-P



### Product Description:

1. Consist of Cone Bolt, Sleeve, Expansion Ring, washer, Spring Washer, Nuts, material stainless steel 316L, hammer in installation.
2. Suit for variety of natural stone, stone thickness from 20mm, and connect with aluminium profile hanger.

### Product Advantage:

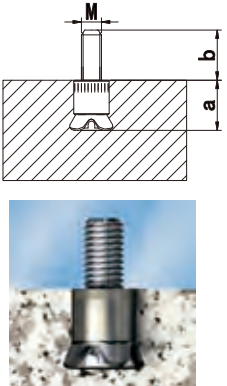
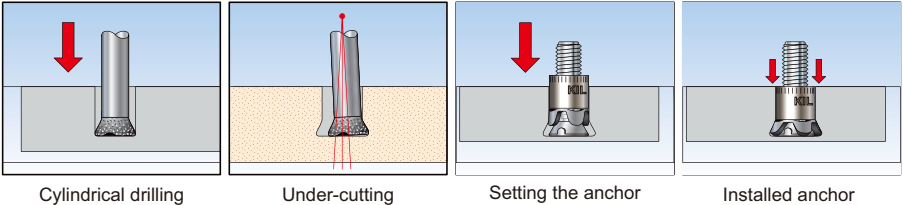
1. Newly developed expansion ring, designed by high load.
2. Stress-free on natural stone installation.
3. Back bolt anchor invisible at facade panel.
4. Back Bolt Anchor position can be optimised.

### Technical Data:

Product Size	Product Description	Cone bolt diameter (mm)	Drill Hole Diameter $\Phi$ (mm)	Anchoring Depth (mm)	Anchor install length a (mm)	Anchor exert length b (mm)	Anchor total length
BAS-P-6A	M6X12-30	M6	11	12	12	18	30
BAS-P-6B	M6X15-30	M6	11	15	15	15	30
BAS-P-6C	M6X15-35	M6	11	15	15	20	35
BAS-P-8A	M8X15-30	M8	13	15	15	15	30
BAS-P-8B	M8X15-35	M8	13	15	15	20	35
BAS-P-8C	M8X21-40	M8	13	21	21	19	40

### Product Installation:

Use Kinlong special tool for installation.





Stand-off Installation Back Bolt Anchor BAS-B



- Product Description:**
- 1、 Consist of Cone Bolt, Sleeve, Expansion Ring, Aluminium washer,washer, Spring Washer, Nuts, material stainless steel 316L, hammer in installation.
  - 2、 Suit for variety of natural stone, stone thickness from 20mm, and connect with aluminium profile hanger.

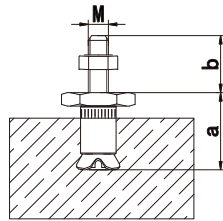
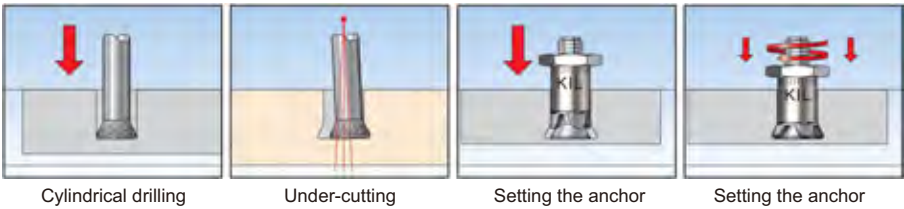
- Product Advantage:**
- 1、 Newly developed expansion ring, designed by high load.
  - 2、 Stress-free on natural stone installation.
  - 3、 Back bolt anchor invisible at facade panel.
  - 4、 Back Bolt Anchor position can be optimised.
  - 5、 Can compensate for panel thickness tolerances and varied panel thickness can be compensated by the use of stand-off anchor types.

Technical Data

Stand-off Back bolt Anchor Installation Data							
Product Size	Product Description	Cone bolt diameter (mm)	Drill Hole Diameter Φ (mm)	Anchoring Depth (mm)	Anchor install length a (mm)	Anchor exsert length b (mm)	Anchor total length
BAS-B-6	M6X15-35	M6	11	12~18	23	12	35
BAS-B-8	M8X18-40	M8	13	15~21	26	14	40

Product Installation

Drilling/Setting Installation



Spin-in Installation Back Bolt Anchor BAS-S



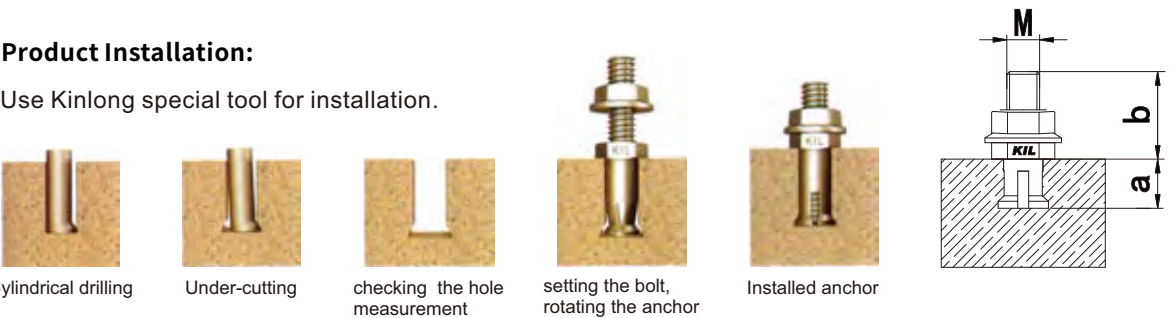
- Product Description:**
- 1、 Consist of Hexagon expansion sleeve, Internal hexagonal bolt, Flange nut, material stainless steel 316L.
  - 2、 Suitable for different kind of natural stone and less thickness plate (ceramic plate, fire-proof plate and etc).

- Product Advantage:**
- 1、 Stress-free on natural stone installation.
  - 2、 Back bolt anchor invisible at facade panel.
  - 3、 Back Bolt Anchor positioning can be optimised.
  - 4、 Spin-in installation, no effect to stoneware.
  - 5、 Detachable after installation if the hole measurement is incorrect.

Technical Data

Spin-in Back bolt Anchor Installation Data							
Product Size	Product Description	Bolt diameter (mm)	Drill Hole Diameter Φ (mm)	Anchoring Depth (mm)	Anchor install length a (mm)	Anchor exsert length b (mm)	Anchor total length
BAS-S-6A	M6X5-20	M6	7.5	5	5	15	20
BAS-S-6B	M6X7-25	M6	7.5	7	7	18	25
BAS-S-6C	M6X9-25	M6	7.5	9	9	16	25
BAS-S-6D	M6X12-25	M6	7.5	12	12	13	25
BAS-S-6E	M6X15-32	M6	7.5	15	15	17	32
BAS-S-6F	M6X18-35	M6	7.5	18	18	17	35
BAS-S-6G	M6X20-35	M6	7.5	20	20	15	35
BAS-S-8A	M8X15-32	M8	9.5	15	15	17	32
BAS-S-8B	M8X18-35	M8	9.5	18	18	17	35
BAS-S-8C	M8X20-40	M8	9.5	20	20	20	40

**Product Installation:**  
Use Kinlong special tool for installation.



Aluminium Profile Hanger

Surface anodizing treatment, usually have ear shape hanger,C shape hanger. Back bolt anchor fixing with the hanger directly,make the installation and anchoring in one time. Meanwhile the space between hanger and main structure can be adjusted by adjust bolt, reduce the on-site installation time and make the renovation work and replacing panels more easier.

Mother&Son shape Aluminium Hanger



Designed Data

Aluminium Hanger Size	Aluminium Hanger thickness T(mm)	Aluminium Hanger Length L(mm)	Material	Surface treatment	Surface Anodizing thickness	Product Code
GY1021	4	50	6063	T5	≥15	159204010004

Installation Process			
	Process 1: Setting the anchor into stone	Process 2: Fixing the Aluminium hanger, fastening nut	Process 3: Installing the anchor and aluminium profile hanger

Ear shape Aluminium Hanger



Designed Data

Aluminium Hanger Size	Aluminium Hanger thickness T(mm)	Aluminium Hanger Length L(mm)	Material	Surface treatment	Surface Anodizing thickness	Product Code
GY1024	4	50	6063	T5	≥15	159204010001

Installation Process			
	Process 1: Setting the anchor into stone	Process 2: Fixing the Aluminium hanger, fastening nut	Process 3: Installing the anchor and aluminium profile hanger

Corner shape Aluminium Hanger



Designed Data

Aluminium Hanger Size	Aluminium Hanger thickness T(mm)	Aluminium Hanger Length L(mm)	Material	Surface treatment	Surface Anodizing thickness	Product Code
GY1022	5	50	6063	T5	≥15	159204010005

SE shape Aluminium Hanger



Designed Data

Aluminium Hanger Size	Aluminium Hanger thickness T(mm)	Aluminium Hanger Length L(mm)	Material	Surface treatment	Surface Anodizing thickness	Product Code
GY1025	3-5	Plate thickness length 80mm, SE hanger length 50mm	6063	T5	≥15	159204010008



Part of Project Cases



▲ Jinan Railway Construction International City



▲ Pu'er Center



◀ Beijing New Airport



▲ Urumchi Wanda Plaza



▲ Dalian Zhonghang International Plaza



◀ Fuli Sky Bay



◀ Beijing Qidi Xiangshan



▲ LAFA Cultural & Commercial Center



▲ Zhuhai robotics Park



◀ Xiamen Portman Hotel



▲ Zhengzhou Zhongyuan Financial Industry Park



▲ Tianshui New Asia shopping plaza



Part of Project Cases



▲ Chongqing Banan first grade Hospital



▲ Chongqing Northern New Area Plaza



◀ Ethiopian National Stadium



▲ Nanjing flourishing Binjiang Building



▲ Jining Cultural Center



◀ Times Square of Yangguan, Tianshui



◀ Lanzhou TAIDING Central Plaza



▲ Nanjing Software Park Chuang yuan Mansion



▲ JCC International Plaza



◀ Hangzhou rongke. Southeast Sea



▲ Vietnam-China Friendship Palace



▲ Suzhou Chinese Academy of Medicine research building Center

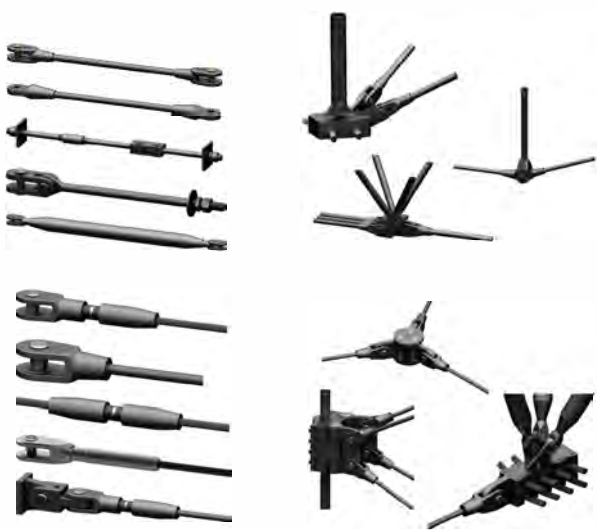


# PRODUCT WORLD

## PIPE GALLERY, PIPELINE, RAIL TRANSPORTATION PRODUCT



## CABLE PRODUCT SERIES FOR STRUCTURAL ENGINEERING



## INTERIOR DECORATION FITTING

### DOOR CONTROL HARDWARE SERIES



### LOCK HARDWARE SERIES



### BATHROOM HARDWARE SERIES



### S.S. RAILING SYSTEM



## IMPORT ARCHITECTURAL MATERIALS SERIES

### AUSTRIA U GROOVE HARDWARE SERIES



### ITALIAN FAPIM ALUMINUM DOORS & WINDOWS HARDWARE



### SWISS GILGEN AUTOMATIC DOOR



## CURTAIN WALL SYSTEM

### POINT-FIXED GLASS WALL FITTINGS SERIES



### CAST-IN CHANNEL ACCESSORY



### ANCHORING PRODUCTS SERIES



### FASTENING PRODUCTS SERIES



### GTI AUTOMATIC WINDOW OPERATING SYSTEM



## DOOR & WINDOW HARDWARE SYSTEM

### ALUMINUM DOOR & WINDOW HARDWARE



### U-PVC GROOVE DOOR & WINDOW ACCESSORY



### HOME DECORATION DOOR & WINDOW HARDWARE



### NEWANTON SEALED INSULATION SYSTEM



### CHUNGUANG SPACER SERIES



## ARCHITECTURAL ACCESSORY PRODUCTS SERIES

### TRENITE SAFETY PROTECTION PRODUCTS SERIES



### TRENITE INDUSTRY ASSISTIVE PRODUCTS SERIES



### GIVEN PRECISION EQUIPMENT SERIES



### GIVEN OUTDOOR LIGHTING SERIES



### TRENITE CONSTRUCTION TAPE SERIES



### GIVEN TOOLS SUPPLIES SERIES



### PRECSIO ALUMINUM ALLOY LADDER SERIES



### FLEX POWER TOOLS SERIES



## SMART HOME SERIES

### HBS SMART LOCK



### GEMVARY VIDEO INTERCOM SYSTEM



### GIVEN INTELLIGENCE LAUNDRY RACK SERIES

