

Construction Anchor Product Catalogue



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KIN LONG For Better Living













COMPANY PROFILE

Ningbo Kinglong Kexing Precision Manufacturing Co., Itd is a professional supplier of construction products. Our product range including chemical anchor, bolt anchor, undercut anchor, back bolt anchor, T-shape screw and off-center rivet for door and window parts. We are located in Ningbo, Zhejiang very near the Ningbo port which is good for exporting.

The company occupies a total area of 12000 square meters, annual production is 20 million sets of Anchors. We havehigh level production line, such as multi-station cold forging anchor bolt forming machine, multi-station coldforging nut forming machine, high speed thread rolling machine, CNC lathe, hot forging and stamping machine.

Since established, the company has always insisted on the selection of high-quality raw material, strict manufacturing process control, production and management effic ency. We have our own Laboratory to do the Tensileitest, Shear test, Hardness test, Salt spray test and Material analysis.

In the future, we will corporate closely with clients, with world-level quality products, fast and flexible response and perfect service to help customer reduce cost and get win-win.

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CERTIFIATE OF HONOR

Kinlong kexing has always regarded innovation as the fundamental driving force for enterprise development, adhere to the independent and sustainable innovation and development road. Focus on customer needs in the market, turn research and development achievements into productivity, and provide customers with high-quality products and services.



THE PRODUCTION LINE

Kinlong Kexing has alarge number of advanced processing equipment and automated production lines, complete planning system and strong production capacity, first-class production technology and quality management system, in order to ensure product quality and greatly improve product zproduction an delivery capacity, to meet the needs of customers and projects.



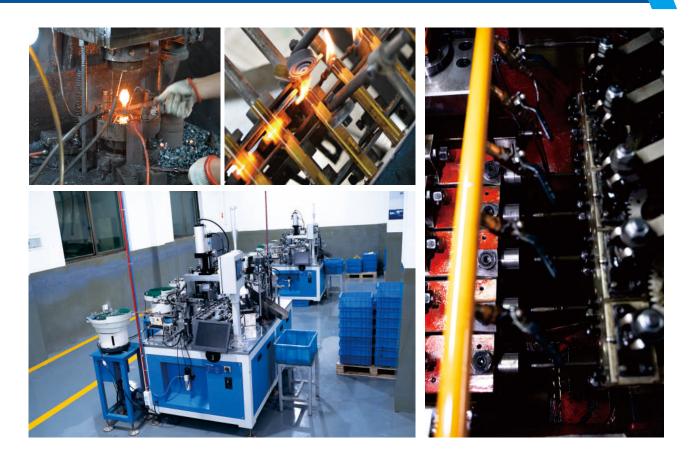












LABORATORY

Kinlong Kexing laboratory is equipped with 31 sets of special equipment for research and development, which can realize comprehensive testing of mechanical properties, chemical composition analysis, salt spray test and coating thickness of anchorage products, providing support for product research and development and production.



Choose KIN LONG, Choose Safety!

Profession: Kinlong variety of construction anchor products(Chemical Anchor, Mechanical Anchor, Nylon Anchor and Back Bolt Anchor for Stone)



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



Technical certification and test logo

Quality: Passed the testing and certification of EU ETA, SGS, CTC, CABR and other authoritative institutions at home and abroad.



European Technology Certification - ETA

Kinlong anchor bolt has passed the authoritative European technical certification - ETA certification. The product quality is excellent and can circulate freely in most overseas markets.



International Authority Certification - SGS

The world's largest and oldest third-party organization engaged in product quality control and technical appraisal.



China National Accreditation Committee for Qualification Assessment China's recognition, international mutual recognition testing



National Building Materials Testing Center

Kinlong anchor products have passed a series of testing and certifications of the National Building Materials Testing Center.



Certification Center of the Chinese Academy of Architectural Sciences

Kinlong anchor products have passed a series of testing and certifications of the National Construction Engineering Quality Supervision and Inspection Center.



National Seismic Laboratory of South China University of Technology - Expert Report

Kinlong anchor products have passed the 9-degree rare seismic wave seismic test and obtained the test report.

Construction Anchor Products Catalogue

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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-structura component includes construction non-structura component(retainingexternal 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-anc horage 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 in to 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.

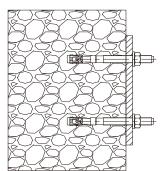


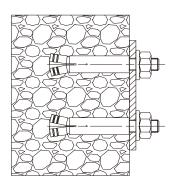
2.Undercutanchor

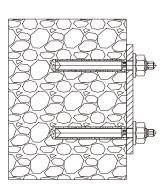
Using special drill bit or a hard blade on the anchor bolt expansion to expand at a certain depth of the straight hole, apply a torque or tapping force to insert the expansion into the expand hole to form a lock key, it's an anchor use the mechanical engagement force as the main anchoring force.

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 50068-2001decide to adopt the limit states design method which is based on experimental study data and engineering experimental 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 1but not less than the security level of the structure connected.

Table 1

Anchoring Connection Security Level							
Security Level	Failure Consequence	Anchorage Category					
Level1	More serious	Vital Anchorage					
Level2	Serious	CommonAnchorage					

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.

Building Anchoring Products Common Specifications Model Summary Table

Building Anchoring Products Common Specifications Model Summary Table									
Product	Туре	Model	Specification	Material and Surface finish	Code				
	Chemical Anchor	CAS-D-12P	M12*160mm	Grade 5.8 galvanized carbon steel	159100000003PM				
Chemical Anchor	Anchor	CAHS-H-12A	M12*160mm	Grade 8.8 carbon steel hot-dip galvanized	159103000002				
	High Bonded Anchor	CAM-500	385ml	/	159104000001				
Mechanical	Bolt Anchor	Bolt Anchor MAS-D-12E		Grade 5.8 carbon steel galvanized	159201000010				
Anchor	Anchor Self Undercut Anchor		M12*130mm	Grade 8.8 carbon steel hot-dip galvanized	159202000148				

Building Anchoring Products Common Specifications Model Summary Table								
Product	Туре	Model	Specification	Material and Surface finish	Code			
Back Bolt	Flush Installation Back bolt	BAS-P-6B	M6*15-30mm	Stainless steel	159204000002			
Aluminium	Ear Shape Aluminium Alloy Hanger	GY1024-P6	50*4mm	Anodizing	159204010042			
Profile Hanger	Corner Shape Aluminium Alloy Hanger	GY1022	60*5mm	Anodizing	159204010050			
11111901	Screw	GY-M6	M6*20mm	Stainless steel/ Nature finish	159204010042			

Note:

- 1. GY1024-P6 is ear shape aluminum alloy hanger, P6 means the hole at aluminium alloy hanger can match with M6 flush back bolt:
- 2. The ear shape aluminum alloy hanger GY1024-P6, with strip, without screws; and the universal adjustment screw GY-M6 can be quoted separately.



Chemical Anchor CAS Series



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.

Advantages:

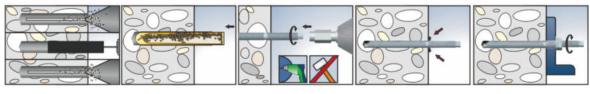
- 1. Resistant to acids, alkalis, heat, Low sensitivity to temperature.
- 2. Stress-free on substrate.
- 3. No strict requirement with installation spacing and edge distance.
- 4. Fast and easy installation, quick curing time. no influence on project schedule.
- 5. Strong anchoring force, same like embedded.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

Application:

- 1. Suitable for standard concrete with strength grade 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 etc).
- 4. Stainless Steel CAS can be used in dry indoor and out door (Including industrial atmospheric and coastal environment), and also for 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

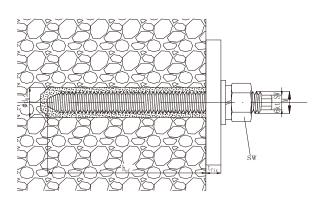
Setting the Glass Capsule into the Hole

Rotating the bolt to the bottom of the Hole

Waiting for curing according to product curing time data.

Fixed Anchorage

Chemical Capsule Curing Time						
Substrate temperature	Curing time					
-4°C~0°C	10h					
0°C~5°C	45min					
5°C~10°C	30min					
10°C~20°C	20min					
20°C~30°C	5min					
30°C~40°C	3min					



Installation Data

	CAS-D Galvanized Steel Chemical Anchor Bolt									
Model	Product Specification	Drilling Bit Diameter d _o	Drilling Hole Depth h₀	Effective Anchoring Depth h _{ef}	Max Thickness of Fixturet	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 h₀	Effective Anchoring Depth h _{ef}	Max Thickness of Fixturet	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 steel Chemical Anchor Bolt									
Model	Product Specification	Drilling Bit Diameter d ₀	Drilling Hole Depth h₀	Effective Anchoring Depth h _{ef}	Max Thickness of Fixturet	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 Parameter

Technical Parameter for Chemical Anchor CAS in Non-cracking Concrete													
Anchor Size	CA	S-8	CAS-10		CAS	S-12	CAS-16		CAS-20		CAS-24		
Steel Type	Carbon Steel	Stainless Steel											
Steel Grade	5.8	A4-70											
Effective Anchoring Depth h _{ef} [mm]	8	0	9	0	1′	10	12	25	17	70	2	10	
Drilling Depth h₀>= [mm]	8	0	9	0	1′	10	12	25	17	70	2	10	
Drilling Diameter d₀ [mm]	1	0	1	2	1	4	1	8	2	5	2	8	
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 _{or. N} [mm]	24	10	270		330		375		510		630		
Eigenvalue Edge Distance C _{cr.N} [mm]	12	20	13	35	165		188		255		315		
Minimum Spacing S _{min} [mm]	4	8	6	0	7	72		96		20	144		
Minimum Edge Distance C _{min} [mm]	4	8	6	0	7	2	96		120		144		
Substrate Minimum Thickness h _{min} [mm]	100		12	20	14	10	16	60	2:	20	27	70	
Anchorage Drilling Diameter d _r <= [mm]	9		1	12		14		8	2	2	2	6	
Matched Glass Capsule CAG	CA	G-8	CAC	9-10	CAC	CAG-12		CAG-16		CAG-20		CAG-24	
Installation torque ForceT [Nm]	1	0	2	0	4	0	6	0	10	00	12	20	

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

Anchor hole clearing tool-brush



Adaptation parameters

Product name	Product code	Applicable products	Material code
Brush	AS-B	High-strength chemical anchor CAS M8-M24 series product	492204003525

Anchor hole clearing tool-Blower



Adaptation parameters

Product name	Product code	Applicable products	Material code
Air blower	AS-P	High-strength chemical anchor CAS M8-M24 series product	492204003526

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High Bonded Anchor CAHS Series HOJMD



Product Description:

- 1. CAHS Series should be used with CAM-500 chemical mortar.
- 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 meet the reguirement under long-term load, cyclic load and seismic load.
- 5. Product consists of cone shape anchor, CAM-500 chemical mortar, washer and nut.

Advantages:

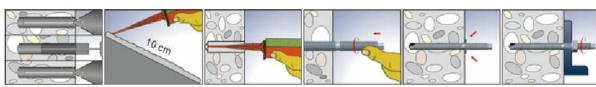
- 1. The installation is similar as chemical anchor, easy and fast
- 2. The high bonded anchor can be used in cracking tensile zone, thus ensure the project safety.
- 3. stress-free during the anchorage, can meet the minimum edae and minimum spacing installation, thus save the project cost.
- 4. Cone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

Application:

- 1. Suitable for standard concrete with strength grade 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 for 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

Discard the glue that flows out until the color of the glue is completely

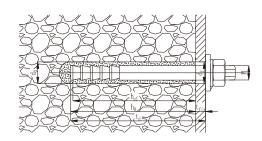
Filling the resin from the bottom of the hole until more than 2/3 of the hole.

Rotating the bolt to the bottom of the hole

Waiting for curing according to product curing

Fixed Anchorage

Anchor Bolt code	The quantity of bolts /1 anchor adhesive
CAHS-10	49
CAHS-12	30
CAHS-16	16
CAHS-20	6
CAHS-24	4



Note: The above supporting quantities are theoretical values.

The actual use willbe affected by factors such as on-site drilling and worker construction.

Installation Data Sheet

	Installation Data Sheet - Pre-inserted type - Special inverted cone type chemical anchor/Class 5.8 galvanized CAHS										
Model	Product Specification	Bolt size M	Drilling Bit Diameter d _o	Drilling Hole Depth h _o	Effective Anchoring Depth h _{ef}	Max Thickness of Fixturet	Wrench Size SW	Installa- tion torque T	Packing (Unit)	Code	
CAHS-D-10	M10*130	M10	12	95	90	20	17	20	10	159103000066	
CAHS-D-12A	M12*160	M12	14	115	110	25	19	40	10	159103000067	
CAHS-D-16	M16*190	M16	18	130	125	30	24	60	10	159103000068	

	Installation Data Sheet - Pre-inserted type - Special inverted cone type chemical anchor/Class 8.8 hot-dip Galvanized CAHS										
Model	Product Specification	Bolt size M	Drilling Bit Diameter d ₀	Drilling Hole Depth h _o	Effective Anchoring Depth h _{ef}	Max Thickness of Fixturet	Wrench Size SW	Installa- tion torque 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	215	210	50	36	120	5	159103000006	

Installation data sheet - Pre-inserted type - Special inverted cone type chemical anchor/stainless steel CAHS										
Model	Product Specification	Bolt size M	Drilling Bit Diameter d ₀	Drilling Hole Depth h _o	Effective Anchoring Depth h _{ef}	Max Thickness of Fixturet	Wrench Size SW	Installa- tion torque T	Packing (Unit)	Code
CAHS-L-10	M10*130	M10	12	95	90	20	17	20	10	159103000007
CAHS-L-12A	M12*160	M12	14	115	110	25	19	40	10	159103000008
CAHS-L-16	M16*190	M16	18	130	125	30	24	60	10	159103000010
CAHS-L-20	M20*260	M20	25	175	170	50	30	100	10	159103000011
CAHS-L-24	M24*300	M24	28	215	210	50	36	120	5	159103000012



Technical Parameter

	High Bonded Anchor											
Anchor Code	CAH	CAHS-10		CAHS-12		CAHS-16		CAHS-20		S-24		
Bolt	M1	M10		M12		M16		M20		24		
Steel Grade	8.8 grade carbon steel	A4-70	8.8 级钢	A4-70								
Drilling Diameter d₀ [mm]	12	2	1	14		18		25		28		
Drilling Depth h _o >= [mm]	98	95		115		130		175		215		
Effective Anchoring Depth h _{ef} [mm]	90)	110		12	25	17	70	2	10		
Anchorage Drilling Diameter _d [mm]	12	2	14		18		22		26			
Installation torque ForceT [Nm]	20)	4	0	60		100		120			
Substrate Minimum Thickness h _{min} [mm]	12	120		140		160		220		70		
Minimum Spacing S _{min} [mm]	60		72		96		120		144			
Minimum Edge Distance C _{min} [mm]	60)	7	2	9	6	120		144			

Designed	Designed Load for Each Anchor Under Large Spacing & Edge											
Non-Cracking Concrete												
Tension Force C30/C35 N _{Rd} [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 _{Rd} [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 _{Rd} [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 _{Rd} [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.
- 4. Please kindly contact our staff if need the limited load for each anchor, we will provide you the official test report.

Anchor hole clearing tool-brush



Adaptation parameters

Product name	Product code	Applicable products	Material code
Brush	AS-B	High bonded anchor CAHS M10-M24 Series products	492204003525
		Other non-standard high bonded anchor	

Anchor hole clearing tool-air blower



Adaptation parameters

Product name	Product code	Applicable products	Material code
Air blower	AS-P	High bonded anchor CAHS M10-M24 Series products	492204003526
		Other non-standard high bonded anchor	

Adhesive injection tool -Adhesive Gun



Adaptation parameters

Product name	Product code	Applicable products	Material code	
Adhanius Cun	3:1	High bonded anchor CAHS M10-M24 Series products	150104000002	
Adhesive Gun	3.1	Other non-standard high bonded anchor	159104000002	

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Injection Type Chemical Anchor Series



Anchor Adhesive CAM-500

CAS High-strength chemical anchor bolt



Full threaded screw 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, surface treatment for carbon steel anchor bolt are galvanized and hot-dip galvanized, and a variety of specifications optional.

Advantages:

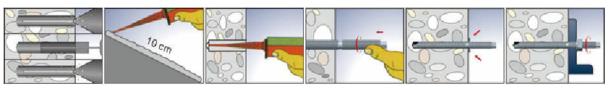
- 1. Manual Installation, rotating the bolt to the end of the hole.
- 2. Variety of bolt sizes for choosing, meet different anchoring depth requirement.
- 3. Stress-free on substrate.
- 4. No strict requirement with installation spacing and edge distance
- 5. Strong anchoring force, same like embedded.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

Application:

- 1. Suitable for standard concrete with strength grade 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 for 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

Discard the glue that flows out until the color of the glue is completely

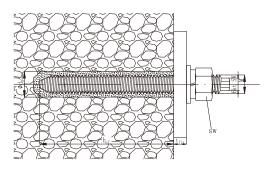
Filling the resin from the bottom of the hole until more than 2/3 of the hole.

Rotating the bolt to the bottom of the hole

Waiting for curing according to product curing

Fixed Anchorage

Anchor Bolt code	The quantity of bolts /1 anchor adhesive
CAS-8	79
CAS-10	49
CAS-12	30
CAS-16	16
CAS-20	6
CAS-24	4



Note: The above supporting quantities are theoretical values.

The actual use willbe affected by factors such as on-site drilling and worker construction.

Installation Data Sheet

CAS-D Galvanized Steel Chemical Anchor Bolt											
Model	Products Description	Drilling Bit Diameter d _o	Drilling Depth h₀	Effective Anchoring Depth h _{ef}	Max Thickness of Fixturet	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 Steel Chemical Anchor Bolt											
Model	Products Description	Drilling Bit Diameter d ₀	Drilling Depth h₀	Effective Anchoring Depth h _{ef}	Max Thickness of Fixturet	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	Products Description	Drilling Bit Diameter d ₀	Drilling Depth h₀	Effective Anchoring Depth h _{ef}	Max Thickness of Fixturet	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 Parameter

Technical Parameter for Chemical Anchor CAS in Non-cracking Concrete												
Anchor Size	CA	S-8	CAS-10		CAS-12		CAS-16		CAS-20		CAS-24	
Steel Type	Carbon Steel	Stainless Steel										
Steel Grade	5.8	A4-70										
Effective Anchoring Depth h _{ef} [mm]	8	0	9	0	1	10	12	25	17	70	2	10
Drilling Depth h₀>= [mm]	8	0	9	0	1	10	12	25	17	70	2	10
Drilling Diameter d₀ [mm]	1	0	1	2	1	4	1	8	2	:5	2	8
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]	24	40	27	270		30	3	75	5 ⁻	10	6:	30
Eigenvalue Edge Distance C _{cr.N} [mm]	12	20	13	35	165		18	88	2	55	3	15
Minimum Spacing S _{min} [mm]	48		60		72		9	6	12	20	14	44
Minimum Edge Distance C _{min} [mm]	48		6	0	7	2	9	6	12	20	14	44
Substrate Minimum Thickness h _{min} [mm]	100		12	20	14	40	10	60	22	20	2	70
Anchorage Drilling Diameter d _i <= [mm]	ć	9	1	2	1	4	1	8	2	2	2	6

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

Anchor hole clearing tool-brush



Adaptation parameters

Product name	Product code	Applicable products	Material code
	40.5	Adhesive for high-strength chemical anchor bolt CAS M8-M24 series	40004000505
Brush	Brush AS-B	Different adhesive for various full threaded screw	492204003525

Anchor hole clearing tool-air blower



Adaptation parameters

Product name	Product code	Applicable products	Material code
Blower	AS-P	Adhesive for high-strength chemical anchor bolt CAS M8-M24 series	492204003526
	7.0 1	Different adhesive for various full threaded screw	10220 1000020

Adhesive injection tool -Adhesive Gun



Adaptation parameters

Product name	Product code	Applicable products	Material code	
Adhesive Gun 3:1		Adhesive for high-strength chemical anchor bolt CAS M8-M24 series	159104000002	
Adnesive Gun	3.1	Different adhesive for various full threaded screw	159104000002	



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.
- 3. Special application in wet land, drilling stone, drilling hole, oversize drilling.
- 4. Safety, environmentally, 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 for outdoor and indoor.

Product Description:

- 1. Injected by special syringe, two chemicals mixed to work in the mixing tube.
- 2. By replacing the static mixing tube, the material container which has been opened can continue to use.

Curing time CAM-500

	Curing time list	
Base Material Temperature	Work time	Cure time
−5 °C	120min	120H
5°C	100min	96H
15 °C	60min	72H
25 °C	40min	48H
35 °C	20min	24H

Notes: 1.Dry preservation, storage temperature (+10°°C+40°°C).

2. By replacing the static mixing tube, the material container which has been opened can continue to use.

Adhesive injection tool -Adhesive Gun



Product name	Product code	Applicable products	Material code
Adhanisa Cun	3:1	Adhesive for high-strength chemical anchor bolt CAS M8-M24 series	159104000002
Adhesive Gun	3.1	Different adhesive for various	159104000002

Bolt Anchor MAS Series



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. Chemical adhesion is not necessary, Applied loads are transferred to substrate via friction between the anchor and the wall of the drilled hole.

Advantages:

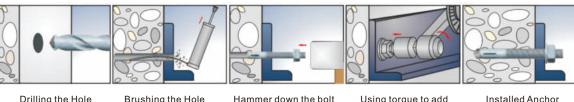
- 1. Wide Application. suitable for different strength of Concrete and other cut-in substrate.
- 2. Simple structure, good corrosion and abrasive resistance, can endure high temperatures and can be
- 3. Suitable for most environments where anchoring adhesive is not suitable for using.
- 4. Loading Force can be assumed immediately after installation, 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 outdoor (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



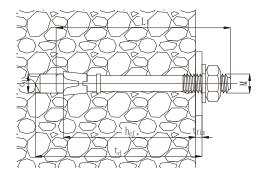
Drilling the Hole

Brushing the Hole

Hammer down the bolt

to the end of the hole

Using torque to add the torque force



	DataMAS-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	159201000036					
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					



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 _{ss} [KN]	5.8	3.2	5.3	7.9	11.1	19.2	29.8		
Terision Load N _{rd} [1XN]	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]				$3*h_{\rm ef}$					
Eigenvalue Edge Distance C _{cr, N} [mm]				1.5*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	120	160	200		
Drill Hole Diameter of Fixture d _i <= [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.
- 4. Please kindly contact our staff if need the limited load for each anchor, we will provide you the official test report.

Anchor hole clearing tool-brush



Product name	Product code	Applicable products	Material code
Brush	AS-B	Expansion anchor bolt MAS Series	492204003526

Anchor hole clearing tool-air blower



Adaptation parameters

Product name	Product code	Applicable products	Material code
Air blower	AS-P	Expansion anchor bolt MAS Series	492204003526

Undercut anchor MAUS series



MAUS-D Galvanized Undercut Anchor



MAUS-H Hot-Dip Galvanized Undercut Anchor



MAUS-L Stainless Steel Undercut Anchor

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.

Advantages:

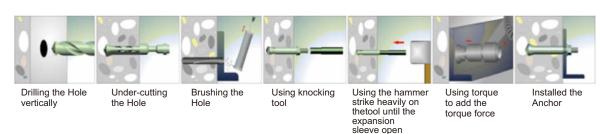
- 1. High Load, Wide Application.
- 2. Stress-free, also suitable for small edge distance installation, cost saving.
- 3. The expansion sleeve can open extremely and reach the ideal load force.
- 4. Loading Force can be assumed immediately after installation, (compare with Chemical Anchor).

Application:

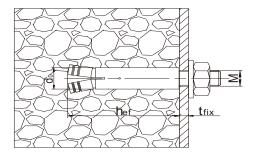
- 1. Suitable for standard concrete from C20/C25 to C50/C60 and also rebar concrete.
- 2. Suitable for cracking concrete (concrete tensile zone) & Non-cracking concrete (concrete compressive zone).
- 3. Suitable for natural dense stone, solid brick, limes and brick and etc.

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



KIN LONG For Better Living



Installation Data

	Installation data sheet - Pre-inserted/Bottom cut anchor/galvanized MAUS-C												
Model	Products Description	Drilling Bit Diameter d _o	Drilling Depth h _o	Effective Anchoring Depth h _{ef}	Max Thickness of Fixturet	Bolt specification M	Drilling diameter of anchorage	Wrench Size SW	Packing (Unit)	Code			
MAUS-D-10	M10*60-100	14	67	60	25	M10	12	17	10	159202000364			
MAUS-D-12A	M12*80-130	18	90	80	25	M12	14	19	10	159202000365			
MAUS-D-12B	M12*100-150	18	108	100	25	M12	14	19	10	159202000366			
MAUS-D-16A	M16*100-160	22	112	100	25	M16	18	24	10	159202000367			
MAUS-D-16B	M16*125-195	22	137	125	35	M16	18	24	10	159202000368			

	Installation da	ıta shee	et - Pre-	-inserted	Bottom o	cut ancho	or/hot dip	galvani	zed MA	US-C
Model	Products Description	Drilling Bit Diameter d _o	Drilling Depth h _o	Effective Anchoring Depth h _{ef}	Max Thickness of Fixturet	Bolt specification M	Drilling diameter of anchorage	Wrench Size SW	Packing (Unit)	Code
MAUS-H-10	M10*60-100	14	67	60	25	M10	12	17	10	159202000369
MAUS-H-12A	M12*80-130	18	90	80	25	M12	14	19	10	159202000370
MAUS-H-12B	M12*100-150	18	108	100	25	M12	14	19	10	159202000371
MAUS-H-16A	M16*100-160	22	112	100	25	M16	18	24	10	159202000372
MAUS-H-16B	M16*125-195	22	137	125	35	M16	18	24	10	159202000373

	Installation da	ata she	et - Pre	-inserted/	Bottom (cut ancho	or /A4 sta	inless st	teel MA	US-C
Model	Products Description	Drilling Bit Diameter d ₀	Drilling Depth h _o	Effective Anchoring Depth h _{ef}	Max Thickness of Fixturet	Bolt specification M	Drilling diameter of anchorage	Wrench Size SW	Packing (Unit)	Code
MAUS-L-10	M10*60-100	14	67	60	25	M10	12	17	10	159202000036
MAUS-L-12A	M12*80-130	18	90	80	25	M12	14	19	10	159202000037
MAUS-L-12B	M12*100-150	18	90	80	55	M12	14	19	10	159202000437
MAUS-L-16A	M16*100-160	22	112	100	60	M16	18	24	10	159202000438
MAUS-L-16B	M16*125-195	22	137	125	60	M16	18	24	6	159202000439

Note: Anchor size is described by diameter*effective anchoring depth-total length, for example: M12*80-130, diameter M12, effective anchoring depth 80, total length 130.

Installation Data													
Self Undercut Anchor MAUS-C Series													
Products Description	Material	MAUS-10	MAUS-12A	MAUS-12B	MAUS-16A	MAUS-16B							
Effective Anchoring Depth h _{ef}		60	80	100	100	125							
Drilling Depth h₀		67	90	108	112	137							
Drilling Bit Diameter d₀		14	18	18	22	22							
Non-cracking Concrete Design L	oad Nra & Vrd												
	5.8	11.1	19.2	27.1	29.8	41.7							
Tension Load [kn]	8.8	11.1	19.2	29.8	29.8	41.7							
	A4-70	11.1	19.2	29.8	29.8	41.7							
	5.8	8.8	14	14	26.1	26.1							
Shear Load[kn]	8.8	15.5	22.5	22.5	41.8	41.8							
	A4-70	10.9	15.4	15.4	29.4	29.4							

Cracking Concrete Design Load Nrd & Vrd

	5.8	7.9	13.7	21.3	21.3	29.8
Tension Load [kn]	8.8	7.9	13.7	21.3	21.3	29.8
	A4-70	7.9	13.7	21.3	21.3	29.8
	5.8	8.6	14	14	26.1	26.1
Shear Load [kn]	8.8	15.5	22.5	22.5	41.8	41.8
	A4-70	10.9	15.4	15.4	29.4	29.4

Substrate Condition

Minimum Spacing S _{min} [mm]	60	72	72	96	96
Minimum Edge Distance C _{min} [mm]	60	72	72	96	96
Substrate Min Thickness h _{min} [mm]	120	160	200	200	250
Installation torque T(N.M)	40	60	60	100	100

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



Undercut anchor installation tools-Drilling bit



Matching parameters

Product name	Product model	Matching products	Code
	MAUB-10	Undercut anchor MAUS-10 series	492003001420
	MAUB-12A	Undercut anchor MAUS-12A series	492003001421
Drilling bit	MAUB-12B	Undercut anchor MAUS-12B series	492003001658
	MAUB-16A	Undercut anchor MAUS-16A series	492003001422
	MAUB-16B	Undercut anchor MAUS-16B series	492003001423

Undercut anchor installation tools-Knocking tool



Matching parameters

Product name	Product model	Matching products	Code
	MAUT-10	Undercut anchor MAUS-10 series	492204003529
Knocking tool	MAUT-12	Undercut anchor MAUS-12 series	492204003530
	MAUT-16	Undercut anchor MAUS-16 series	492204003531

Self Undercut Anchor MAUS-C Series



MAUS-C electroplated self-cutting bottom anchor bolts



MAUS-C hot-dip galvanized self-cutting bottom anchor bolts



MAUS-C stainless steel self-cutting bottom anchor bolt

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.

Advantages:

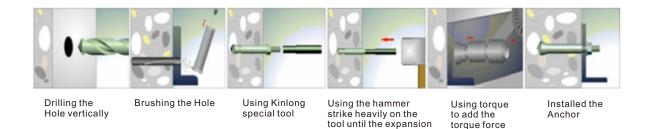
- 1. High Load, Wide Application.
- 2. Stress-free, also suitable for small edge distance installation, cost saving.
- 3. The expansion sleeve can open extremely and reach the ideal load force.
- 4. Loading Force can be assumed immediately after installation, (compare with Chemical Anchor).

Application:

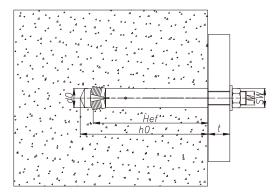
- 1. Suitable for standard concrete from C20/C25 to C50/C60 and also rebar concrete.
- 2. Suitable for cracking concrete (concrete tensile zone) & Non-cracking concrete (concrete compressive zone).
- 3. Suitable for cracking concrete C12/C15, Natural dense stone, solid brick, limesand brick and etc.

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



KIN LONG For Better Living



Installation Data

	Installation	data sl	neet - P	re-insert	ed/Botto	m cut and	chor/galv	anized I	MAUS-C	
Model	Products Description	Drilling Bit Diameter d _o	Drilling Depth h _o	Effective Anchoring Depth h _{er}	Max Thickness of Fixturet	Bolt specification M	Drilling diameter of anchorage	Wrench Size SW	Packing (Unit)	Code
MAUS-C-10	M10*60-100	14	67	60	25	M10	12	17	10	159202000182
MAUS-C-12A	M12*80-130	18	94	80	25	M12	14	19	10	159202000183
MAUS-C-12B	M12*100-150	18	114	100	25	M12	14	19	10	159202000352
MAUS-C-16A	M16*100-160	22	114	100	25	M16	18	24	10	159202000353
MAUS-C-16B	M16*125-195	22	139	125	35	M16	18	24	10	159202000354

	Installation data sheet - Pre-inserted/Bottom cut anchor/hot dip galvanized MAUS-C											
Model	Products Description	Drilling Bit Diameter d ₀	Drilling Depth h _o	Effective Anchoring Depth h _{er}	Max Thickness of Fixturet	Bolt specification M	Drilling diameter of anchorage	Wrench Size SW	Packing (Unit)	Code		
MAUS-C-10	M10*60-100	14	70	60	25	M10	12	17	10	159202000355		
MAUS-C-12A	M12*80-130	18	94	80	25	M12	14	19	10	159202000356		
MAUS-C-12B	M12*100-150	18	114	100	25	M12	14	19	10	159202000357		
MAUS-C-16A	M16*100-160	22	114	100	25	M16	18	24	10	159202000358		
MAUS-C-16B	M16*125-195	22	139	125	35	M16	18	24	10	159202000359		

	Installation data sheet - Pre-inserted/Bottom cut anchor /A4 stainless steel MAUS-C											
Model	Products Description	Drilling Bit Diameter d _o	Drilling Depth h _o	Effective Anchoring Depth h _{ef}	Max Thickness of Fixturet	Bolt specification M	Drilling diameter of anchorage	Wrench Size SW	Packing (Unit)	Code		
MAUS-C-10	M10*60-100	14	70	60	25	M10	12	17	10	159202000063		
MAUS-C-12A	M12*80-130	18	94	80	25	M12	14	19	10	159202000064		
MAUS-C-12B	M12*100-150	18	114	100	25	M12	14	19	10	159202000440		
MAUS-C-16A	M16*100-160	22	114	100	25	M16	18	24	10	159202000441		
MAUS-C-16B	M16*125-195	22	139	125	35	M16	18	24	10	159202000442		

Note: Anchor size is described by diameter*effective anchoring depth-total length, for example: M12*80-130, diameter M12, effective anchoring depth 80, total length 130.

Technical Parameter

	Internal Thre	ad Percussion	Anchor MAIS	Series		
Products Description	Material	MAUS-10	MAUS-12A	MAUS-12B	MAUS-16A	MAUS-16B
Effective Anchoring Depth h _{ef}		60	80	100	100	125
Drilling Depth h₀		70	94	114	114	139
Drilling Bit Diameter d₀		14	18	18	22	22
Non-cracking Concrete Design L	oad Nra & V	rd				
	5.8	11.1	19.2	27.1	29.8	41.7
Tension Load [kn]	8.8	11.1	19.2	29.8	29.8	41.7
	A4-70	11.1	19.2	29.8	29.8	41.7
	5.8	8.8	14	14	26.1	26.1
Shear Load[kn]	8.8	15.5	22.5	22.5	41.8	41.8
	A4-70	10.9	15.4	15.4	29.4	29.4
Cracking Concrete Design Load	Nrd & Vrd					
	5.8	7.9	13.7	21.3	21.3	29.8
Tension Load [kn]	8.8	7.9	13.7	21.3	21.3	29.8
	A4-70	7.9	13.7	21.3	21.3	29.8
	5.8	8.6	14	14	26.1	26.1
Shear Load [kn]	8.8	15.5	22.5	22.5	41.8	41.8
	A4-70	10.9	15.4	15.4	29.4	29.4
Substrate Condition						
Minimum Spacing S _{min} [mm]		60	72	72	96	96
Minimum Edge Distance C _{min} [mm]		60	72	72	96	96
Substrate Min Thickness h _{min} [mm]		120	160	200	200	250

60

100

100

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.

40

60

- 3. This Technical data's designed load includes the safety factor of material.
- 4. Please kindly contact our staff if need the limited load for each anchor, we will provide you the official test report.



Self Undercut Anchor Installation Tools: Percussion tool



Product name	Product code	Applicable products	Material code
	MAUT-10	Self undercut anchor MAUS-C-10 series	492204003529
Percussion tool	MAUT-12	Self undercut anchor MAUS-C-12 series	492204003530
	MAUT-16	Self undercut anchor MAUS-C-16 series	492204003531

Internal Thread Percussion Anchor MAIS Series



MAIS-D Galvanized internal thread percussion anchor



MAIS-L Stainless steel internal thread percussion anchor

Product Description:

- 1. Installation depth is shallow, can reduce drilling time and cost.
- 2. Provide special installation tools to improve efficiency and safety.

Advantages:

- 1. KIN LONG internal thread percussion anchor is easy installation, it is controllable anchoring and high safety.
- 2. It using nominal internal thread. which can be suitable for all metric system screws, and meet various needs.
- 3. It can carry out anchoring construction with small margins and save costs.

Application:

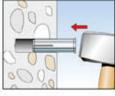
- 1. Suitable for multi-point anchoring of non-load bearing component in cracked concrete (concrete tension zone) from grade C20/C25 to C50/C60.
- 2. Suitable for non-cracked concrete (concrete compression zone) from grade C20/C25 to C50/C60.
- 3. Stainless steel material is suitable for dry indoor and outdoor environments (includina industrial atmosphere and coastal environment), and it can also be used in humid indoor environments without snecia corrosiveness.

Used to fix:

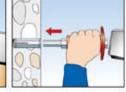
- 1. Cable groove 2. Steel structure 3. Pipe ventilation system 4. Balustrade
- 5. Escalator 6. Machinery equipment 7. Staircase etc.



Drilling the hole vertically, and brushing it



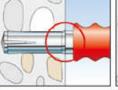
Putting anchor into the hole and strike it to the flat of substrate surface.



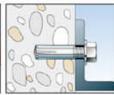
Using tapping tool to

strike the cone bolt

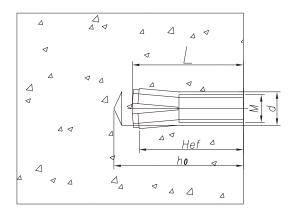
inside the sleeve.



The bottom of the sleeve expand.



Install the bolt or anchorage bolt



MAIS-D Galvanized Internal Thread Percussion Anchor											
Model	Products size	Drilling Bit Diameter d _o	Drilling Depth h₀	Effective Anchoring Depth h _{ef}	Bolt specification M	Drilling diameter of anchorage		Max screwing length	Code		
MAIS-D-6	M6*25	8	27	25	M6	7	6	14	159201000070		
MAIS-D-8	M8*30	10	32	30	M8	9	8	14	159201000071		
MAIS-D-10	M10*40	12	43	40	M10	12	10	17	159201000072		
MAIS-D-12	M12*50	16	53	50	M12	14	12	22	159201000073		
MAIS-D-16	AIS-D-16 M16*65 20			65	M16	18	16	28	159201000074		

	MAIS-L Stainless Steel Internal Thread Percussion Anchor												
Model	Products size	Drilling Bit Diameter d ₀	Drilling Depth h₀	Effective Anchoring Depth h _{ef}	Bolt specification M	Drilling diameter of anchorage	Min screwing length	Max screwing length	Code				
MAIS-L-6	M6*25	8	27	25	M6	7	6	14	159201000075				
MAIS-L-8	M8*30	10	32	30	M8	9	8	14	159201000076				
MAIS-L-10	M10*40	12	43	40	M10	12	10	17	159201000077				
MAIS-L-12	M12*50	16	53	50	M12	14	12	22	159201000078				
MAIS-L-16	M16*65	20	68	65	M16	18	16	28	159201000079				

Technical Parameter

	MAIS Internal Thread Percussion Anchor Technical Data (C30 Non-Cracking concrete, under situation of standard embedded depth)											
Anchor Specification	Material	MAIS-6	MAIS-8	MAIS-10	MAIS-12	MAIS-16						
Effective Anchoring Depth h _{er} [mm]		25	30	40	50	65						
Drilling Hole Diameter d _。 [mm]		8	10	12	16	20						
Anchor Length L [mm]		25	30	40	50	65						
Drilling Hole Depth L, [mm]		27	32	43	53	68						
Min Screwing Length [mm]		6	8	10	12	16						
Max Screwing Length [mm]		14	14	17	22	28						
Design Load N _{rd}			'									
Tension Load N _{Rs} [KN]	4.8	2.33	3.19	5.28	7.19	12.89						
Tomoron 2000 Had Little	A4	2.33	3.19	5.28	7.19	12.89						
Substrate Size, Min Edge Distance & Spacing												
Eigenvalue Spacing S _{cr,N} [mm]			3*	h _{ef}								
Eigenvalue Edge Distance C _{or.N} [mm]			1.5	*h _{ef}								
Minimum Spacing S _{min} [mm]		48	60	72	90	120						
Minimum Edge Distance C _{min} [mm]		80	100	120	150	200						
Minimum Substrate Thickness h _{min} [mm]		100	100	100	100	130						
Drilling Diameter of Anchorage d, ≤[mm]		7	9	12	14	18						

Internal Thread Percussion Anchor Installation Tools



Adaptation parameters

Drill	Product code	Applicable products	Material code
	MAIT-6	Internal thread percussion anchor MAIS-6 Series	492204003683
	MAIT-8	Internal thread percussion anchor MAIS-8 Series	492204003684
Percussion tool	MAIT-10	Internal thread percussion anchor mais-10 Series	492204003685
	MAIT-12	Internal thread percussion anchor MAIS-12 Serie	492204003686
	MAIT-16	Internal thread percussion anchor MAIS-16 Series	492204003687

Sleeve expansion anchor bolt MODS selected quality series



MODS hexagonal head sleeve expansion anchor bolt



MODS-CT countersunk head sleeve expansion anchor bolt

Product Description:

- 1. There are hexagonal and countersunk head types to choose, which is convenient to install. There is no exposed screw rod after installation.
- 2. Bury the marking line to ensure that it is installed in place.

Advantages:

- 1. The strong sleeve expansion anchor bolt is suitable for the installation of narrow space, which saves time and effort.
- 2. Fasten through threads, removable.
- 3. The sleeve is thick, force ability is large, and the mechanical properties are stable.

Application:

It is suitable for non-cracked concrete with grades C20/C25 to C50/C60.

Used to Fix:

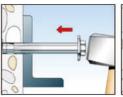
- 1. Door frame anchoring 2. Window frame anchoring 3. Guardrail anchoring 4. Curtain wall anchoring
- 5. Console anchoring 6. Charging pile anchoring, etc.

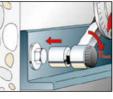


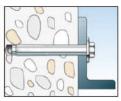
Drilling the Hole



Brushing the Hole







Put the anchor bolt into
the hole and knock it until
Using torque to add
the torque force

Installed the Anchor

Installation Data

	4.8 Level Steel Sleeve expansion anchor bolt MODS										
Model	Anchor Size	Drilling Bit Diameter [mm]	Min. Drilling Hole Depth [mm]	Effective Anchoring Depth [mm]	Max Thickness of Fixturet [mm]	Drill Hole Diameter of Fixture [mm]	Code				
MODS-D-6	M6*8*60	8	40	25	25	10	159201000259				
MODS-D-8	M8*10*80	10	50	30	40	12	159201000261				
MODS-D-10	M10*12*100	12	65	33	55	14	159201000263				
MODS-D-6CT	M6*8*60	8	53	25	25	10	159201000260				
MODS-D-8CT	M8*10*80	10	65	30	40	12	159201000262				

	S.S.304 Sleeve expansion anchor bolt MODS-L											
Model	Anchor Size	Drilling Bit Diameter [mm]	Min. Drilling Hole Depth [mm]	Effective Anchoring Depth [mm]	Max Thickness of Fixturet [mm]	Drill Hole Diameter of Fixture [mm]	Code					
MODS-L-6	M6*8*60	8	40	25	25	10	159201000264					
MODS-L-8	M8*10*80	10	50	30	40	12	159201000266					
MODS-L-10	M10*12*100	12	65	33	55	14	159201000268					
MODS-L-6CT	M6*8*60	8	53	25	25	10	159201000265					
MODS-L-8CT	M8*10*80	10	65	30	40	12	159201000267					

Note: 1 Model CT means sink head; 2 model D means carbon steel electroplating galvanized; L means 304 stainless steel



Technical Parameter

Anchor Size	Material	MADS-6	MADS-8	MADS-10		
Tension Force N ₈₄ [KN]	4.8 Level	2.1	2.8	3.3		
Tension Following [KIV]	A2	2.1	2.8	3.3		
Shear Force V _{Ra} [KN]	4.8 Level	1.8	3.9	4.9		
Official Force V _{Rd} [TCIV]	A2	1.8	3.9	4.9		
Feature spacing S _{cr.N} [mm]	3*h _{ef}					
Feature edge C _{cr.N} [mm]		1.5	*h _{ef}			
Minimum Spacing S _{min} [mm]		48	60	72		
Minimum Edge Distance C _{min} [mm]		80	100	120		
Min Thickness of Substrate h _{min}		100	100	120		
Drilled diameter of the fixture $d_f \le$		10	12	14		
Install Torque T(N.M)		5	10	20		

Steel Structure Unilateral Anchor MASS Series



MASS-L Stainless Steel Steel Structure Unilateral Anchor

Product Description:

- 1. The material is A4/316 stainless steel, it is high corrosion resistance.
- 2. Flexible installation and convenient, it can ensure high bearing capacity.
- 3. It has embedded depth marking line, to ensure installation in place.

Advantages:

- 1. It is free of welding, can realizes unilateral installation and unilateral tightening.
- 2. It can achieve unilateral fixation in the sealed component, to achieve a better connection effect.
- 3. It can be tightened from one side without damaging the steel pipe. The construction is simple and convenient, and it is suitable for the steel structure engineering field.

Application:

Suitable for steel structure connections

Used to fix:

1. Steel structure 2. Steel keel 3. Prefabricated building etc.



Place one side of cone lock nut into the bolt hole



Using an open-end wrench on the outside of the steel plate to tighten the washerand apply torque to the hexagon head by a torque wrench.



Reach the required torque value, and complete the installation.

Applications:



Aluminum veneer curtain wall anchorage

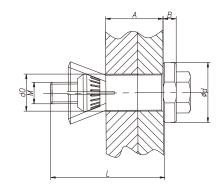


Metal plate welding free anchorage



Stone curtain wall without welding anchorage





	MASS-L Stainless Steel Steel Structure Inilateral Anchor											
Model	Product Size	Bolt Outer Diameter mm	Outer Length Diameter mm		Sleeve Wrench Opening mm	Installation Torque NM	Code					
MASS-L-10A	M10*55	17.75	30	322	24	45	159201000084					
MASS-L-10B	M10*70	17.75	48	2241	24	45	159201000085					
MASS-L-10C	M10*90	17.75	67	4160	24	45	159201000086					
MASS-L-12A	M12*60	19.75	35	325	30	80	159201000087					
MASS-L-12B	M12*80	19.75	57	2547	30	80	159201000088					
MASS-L-12C	M12*100	19.75	79	4769	30	80	159201000089					

Technical Parameter

Technical Parameter of MASS Steel Structure Unilateral Anchor										
Model	MASS-L-10A	MASS-L-10B	MASS-L-10C	MASS-L-12A	MASS-L-12B	MASS-L-12C				
Anchor Specification	M10*55	M10*70	M10*90	M12*60	M12*80	M12*100				
Block ring Thickness [mm]	6	6	6	7	7	7				
Block Ring Diameter [mm]	29	29	29	32	32	32				
Block Ring Wrench Position Width [mm]	24	24	24	30	30	30				
Tension Design Load N _{Rd}	8.5	8.5	8.5	10.5	10.5	10.5				
Shear Design Load V _{Rd}	10	10	10	15	15	15				
Opening Diameter [mm]	18	18	18	20	20	20				
Installation Torque [NM]	45	45	45	80	80	80				
Spacing Between Two Hole ≥ [mm]	40	40	40	50	50	50				

MAZS series self-tapping anchor bolts



MAZS-D galvanized bottom cutting self-tapping anchor bolt



MAZS-K Dacron bottom tapping

Product Description:

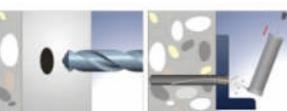
- 1. bottom cutting self-tapping anchor bolts rely on high strength hard thread to achieve an anchoring effect;
- 2. After the thread of bottom cutting self-tapping anchor bolt is embedded in concrete, it is fixed tightly;

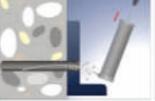
Advantages:

- 1. Installation is quick and simple without chemical adhesive or expansion plate;
- 2, suitable for a small margin, small spacing installation;
- 3. After installation, the surface is smoothand will not affect the follow-up
- 4. After installation, it can be disassembled and temporarily anchored;

Scope of application:

- 1. suitable for hanging system steel groove, bracket base fixed;
- 2. Temporary fixation requiring simple and quick installation;
- 3. Large-scale temporary fixation.









Vertical hole opening

hole clearing

screw cutting bottom tapping

anchor bolts are installed in place



Installation data sheet - Bottom cutting self-tapping anchor/galvanized MAZS-D										
	Model	Product size	Drilling bit diameter	Minimum depth of drilling	Minimum depth of anchoring concrete	Max thickness of anchorage t	Wrench opening SW	Packing (Unit)	Code	
	MAZS-D-8A	M8*75	8	60	50	25	13	10	159201000156	
	MAZS-D-10A	M10*120	10	70	60	60	16	10	159201000157	

	Installation data sheet - Bottom- cutting self - tapping anchor/Dacron MAZS-K											
Model	Product size	Oll is		Minimum depth of anchoring concrete	Max thickness of anchorage t	Wrench opening SW	Packing (Unit)	Code				
MAZS-K-8A	M8*75	8	60	50	25	13	10	159201000158				
MAZS-K-10A	M10*120	10	70	60	60	16	10	159201000159				

Technical Parameter

MAZS series self-tapping anchor bolts							
Anchor Specification	Material	MAZS-8	MAZS-10				
Non-cracking Concrete Design Load N _{Rd} & V _{Rd}							
Tension Load N _{Rd} [KN]	Carbon steel	4.7	6.7				
Shear Load N _{Rd} [KN]	Carbon steel	10.6	15.9				
Basic Information							
Minimum Spacing S _{min} [mm]		55	65				
Minimum Edge Distance C _{min} [mm]		55	65				
Minimum Substrate Thickness H _{min} [mm]		130	170				
Installation torque T(N.M)		40	50				

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

Window undercut self-tapping anchor bolt MAZS-W series



MAZS-W electroplated galvanized undercut self-tapping anchor bolt



Under sunk

head





Big round head

Cylinder head

Product description:

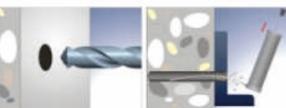
- 1. There are a variety of head types to choose from: sunken head, large round head and cylinder head;
- 2. Used for window system anchoring;
- 3. Undercut self-tapping anchor bolt relies on high-strength hard threads to achieve the anchoring effect;
- 4. It is tightly fixed after the undercut self-tapping anchor bolt thread were embedded in the concrete

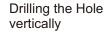
Product advantages:

- 1. Don't need to cooperate with chemical adhesive or open the expansion sheet to install it. The installation is fast and simple;
- 2. Suitable for the installation of small edge and small spacing;
- 3. After installation, the surface is flat, which will not affect subsequent installation.
- 4. It can be removed after installation and can be used for temporary anchoring.

Used to Fix:

Window frame anchoring







Brushing the Hole

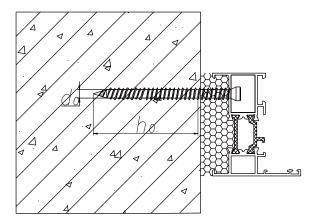


Spin into the undercut self-tapping anchor



Installed the Anchor





Model	Anchor Size	Drilling Bit Diameter [mm]	Min. Drilling Hole Depth [mm]	Effective Anchoring Depth [mm]	Head type	Code
MAZS-W-8A	7.5*92	6.5	92	92	Undersunk head	159201000284
MAZS-W-8A	7.5*92	6.5	92	92	Cylinder head	159201000285
MAZS-W-8A	7.5*92	6.5	92	92	Big round head	159201000286
MAZS-W-8B	7.5*112	6.5	112	112	Undersunk head	159201000287
MAZS-W-8B	7.5*112	6.5	112	112	Cylinder head	159201000288
MAZS-W-8B	7.5*112	6.5	112	112	Big round head	159201000289
MAZS-W-8C	7.5*132	6.5	132	132	Undersunk head	159201000290
MAZS-W-8C	7.5*132	6.5	132	132	Cylinder head	159201000291
MAZS-W-8C	7.5*132	6.5	132	132	Big round head	159201000292

Nylon Frame Anchor NFA 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.

Advantages:

- 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. Penetrated-through installation and pre-insertion installation.

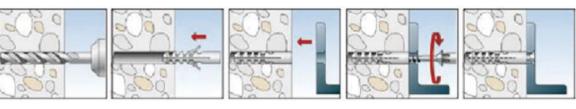
Application:

- 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



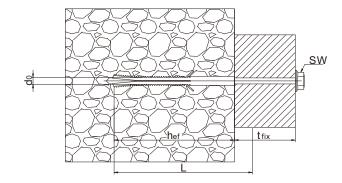
Drilling the hole, Brushing the hole

Setting the Plug

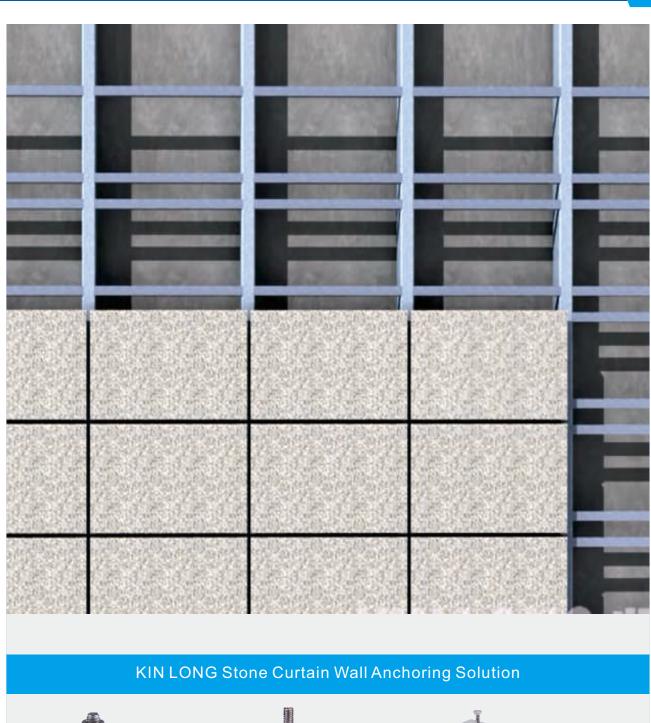
Rotating the screw Setting the object into the plug

Installed the

46/47



Product Size	Plug Diameter x Length	Screw Diameter	Drill Bit Diameter	Depth Drilling Hole
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





Flush Installation Back Bolt BAS-P

Ear shape Aluminium Alloy Hanger



Spin-in Installation Back Bolt BAS-S





Mother&Son shape Aluminium Alloy Hanger



Corner Shape Aluminium Alloy Hanger



SE Shape Aluminium Alloy Hanger



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-dimension. 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. Suitable for variety of natural stone, stone thickness from 20mm, and connect with aluminium profile hanger.

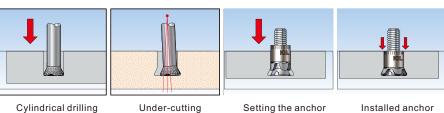
- 1. Newly developed expansion ring, good seismic performance and bear with dynamic load performance.
- 2. Stress-free on natural stone installation.
- 3. Back bolt anchor invisible at facade panel.
- 4. Back Bolt Anchor position can be optimised.

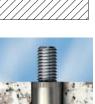
Technical Parameter:

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 length total
BAS-P-6A	M6X12-27	M6	11	12	12	15	27
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-8D	M8X15-33	M8	13	15	15	18	33
BAS-P-8E	M8X21-38	M8	13	21	21	17	38
BAS-P-8C	M8X21-40	M8	13	21	21	19	40

Product Installation:

Use KIN LONG special tool for installation





Setting the anchor Installed anchor

Spacing Back Bolt BAS-B



Product Description:

- 1. By conical screw, set simple, diffuser ring, aluminum alloy gasket, flat pad, spring pad, hexagonal nut composition, 316L stainless steel, percussion installation.
- 2. Suitable for variety of natural stone, stone thickness from 20mm, and connect with aluminium profile hanger.

Advantages:

- 1. Newly developed expansion ring, good seismic performance and bear with dynamic load performance.
- 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 eliminate the thickness error caused by plate processing.

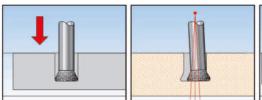
Technical Parameter:

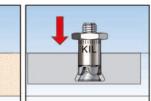
Installation parameters of spacing type back bolt								
Product Size	Product Description	Cone bolt diameter (mm)	Drill Hole Diameter Φ(mm)	Anchoring Depth (mm)	Anchor install length a(mm)	Anchor exsert length b(mm)	Anchor length total	
BAS-B-6	M6X22-35	M6	11	14~18	22	13	35	
BAS-B-8	M8X22-38	M8	13	14~18	22	16	38	

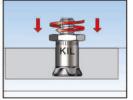
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Product Installation:

Drilling/back bolt installation









Under-cutting

Setting the anchor

Installed anchor

Flush type back bolt, spacing type back bolt installation tools -- percussion tools



Adaptation parameters

Product nam	e Product code	Applicable products	Material code
Percussion	BAT-6	Flush type back bolt M6 series, Pitch type back bolt M6 series	492204003523
tool	BAT-8	Flush type back bolt M8 series, Pitch type back bolt M8 series	492204003524

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).

Advantages:

- 1. Stress-free on natural stoneinstallation.
- 2. Back bolt anchor invisible at facade panel.
- 3. Back Bolt Anchor positioning can beoptimised.
- 4. Spin-in installation' no effect tostoneware.
- 5. Detachable after installation if the hole measurement is incorrect.

Technical Parameter:

Spin-in 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 length total	
BAS-S-6A	M6X5-25	M6	7.5	5	5	15	20	
BAS-S-6H	M6X7-20	M6	7.5	7	7	13	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 KIN LONG special tool for installation.



drilling



Under-cutting





rotating the anchor



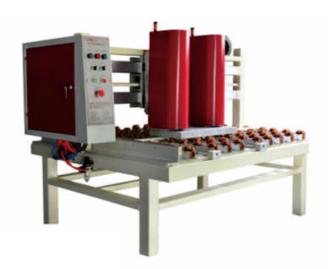


Installed anchor

Stone drilling equipment and drill bits

Desktop double head automatic drilling machine

Technical F	Parameters
Voltage	220V
rated power	4000W
No-load speed	12000r/min
cooling method	Water cooling
hydraulic pressure	>0.2Mpa
pressure	0.5-0.8Mpa
Maximum processed sheet	2500*1600*40mm
Machine weight	500KG
Over alldimensions	2200*1400*1650mm



product description

- 1. Fully automatic drilling, simple operation;
- 2. The table made by universal roller is convenient and fast.
- 3. Suitable for thousands of marble, granite, ceramic plates, etc.;

Precautions

- 1. When connect the power supply, leakage protector must be installed and the power line should be away from ground.
- 2. The water valve must be opened before the equipment runs, and the water can be turned on before the drill bit sprays out;
- 3. Ensure that the cooling water pressure is 3 kg / cm2, and keep the water source free of debris to prevent blockages;
- 4. Ensure that the equipment's ambient temperature is 0-35 degrees, and rain is strictly prohibited, so as to avoid malfunction of the electrical department
- 5.It is strictly forbidden for non-professionals to disassemble and adjust the electrical control box at will.

Electric forged diamond back bolt drill

product description

- 1. The material is super hard diamond;
- 2. The connection method is threaded M14;
- 3. The material of the rough is 45 # carbon steel, the hardness is not lower than HRC50.
- 4. Applicable models: desktop (double head, single head) back bolt puncher



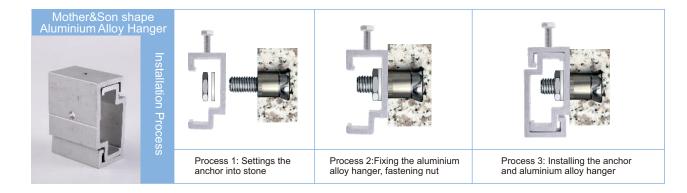
Adaptation parameters

	Conventional single face drill							
Regular specifications	Head diameter(mm)	Drilling depth(mm)	Applicable back bolt specifications					
D6*M14	6	15	Spin-in back bolt m6					
D7*M14	7	20	Spin-in back bolt m8					
D9*M14	9	20	Flush back bolt M6					
D11*M14	11	20	Flush back bolt M8					

KIN LONG For Better Living

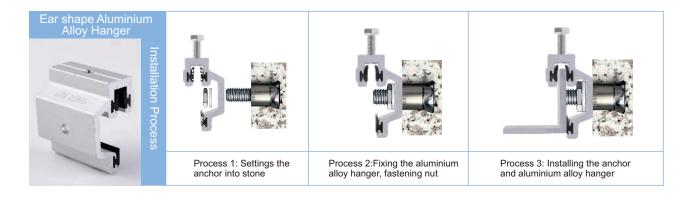
Aluminium alloy profile hanger

Surface anodizing treatment. Commonly use 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 adjusting bolt, reduce the on-site installation time and make the renovation work and replacing panels more easier.



Designed Data

Model	Hanger Thickness T(mm)	Hanger Length L(mm)	Material	Surface Treatment	Code
GY1021-P6	4	50	6063T5	Anodizing	159204010004
GY1021-P8	4	50	6063T5	Anodizing	159204010035
GY1021-S6	4	50	6063T5	Anodizing	159204010036
GY1021-S8	4	50	6063T5	Anodizing	159204010037



Designed Data

Model	Hanger Thickness T(mm)	Hanger Length L(mm)	Material	Surface Treatment	Code
GY1024-P6	4	50	6063T5	Anodizing	159204010001
GY1024-P8	4	50	6063T5	Anodizing	159204010043
GY1024-S6	4	50	6063T5	Anodizing	159204010044
GY1024-S8	4	50	6063T5	Anodizing	159204010045

General Adjustment Screw

Designed Data



Model	Specification	Material	Surface Treatment	Code
GY-M6	M6*20mm	A2/304 Stainless Steel	Natural finish	159204010042

Note: This is the general adjustment screw for Mother & Son Shape Aluminium Alloy Hanger and Ear Shape Hanger

Corner Shape Aluminium Alloy Hanger

Designed Data



Model	Hanger Thickness T(mm)	Hanger Length L(mm)	Material	Surface Treatment	Code	
GY1022	5	60	6063T5	Anodizing	159204010005	

SE Shape Aluminium

Designed Data



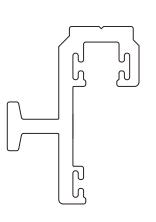
Model	Hanger Thickness T(mm)	ickness Length		Surface Treatment	Code
GY1025	GY1025 4		6063T5	Anodizing	159204010008

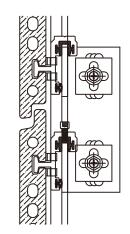
Clay panel curtain wall solutions

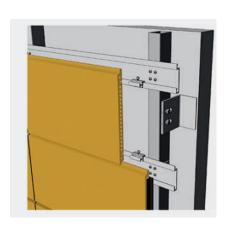
Clay panel is made of natural clay and fired at high temperature. It has the characteristics of environmental protection, no radiation, mild color and no light pollution. 18mm and 30mm clay panel are the most commonly used clay panel curtain wall products. Our company can provide a complete set of clay panel curtain wall connector solutions.



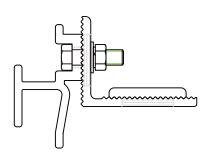


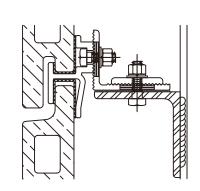


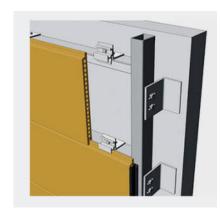




Clay panel installation diagram 01





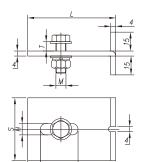


Clay panel installation diagram 02

Stainless steel Hanger

Stainless Steel Double Elbowed Hanger Set



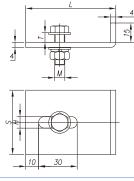


esigned Data

Model	Length L(mm)	Width S(mm)	Thickness	Material	Matching bolt model	Material code
SJ04-SW-70	70	50	4	304	8*25mm	159204010023PM

Stainless Steel Elbowed Hanger Set



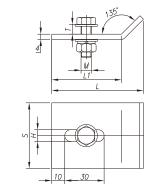


Designed Data

Model	Length L(mm)	Width S(mm)	Thickness	Material	Matching bolt model	Material code
SJ04-DW-70	70	50	4	304	8*25mm	159204010025PM

Stainless Steel Rake Hanger Set





Designed Data

Model	Length L(mm)	Width S(mm)	Thickness	Material	Matching bolt model	Material code
SJ04-XT-70	70	50	4	304	8*25mm	159204010024PM

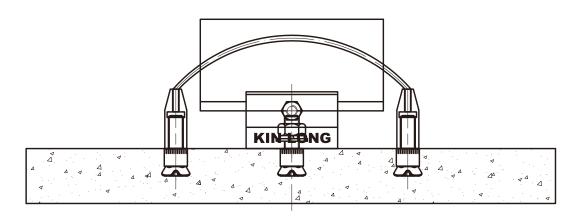
Note: Our company can customize according to the specifications of engineering requirements

Stone curtain wall anti-falling solution

The stone curtain wall system is complex, and safety anchoring is very important. Kinlong provides a safety anti-falling system solution for stone curtain wall, especially high-rise stone and large plate stone.



Anti-falling rope AFR series



Schematic diagram of the stone curtain wall anti-falling solution

Product parameters table

Product model	Product size	Internal thread diameter	Product length	Installation spacing	Code
AFR-8A	M8*200	M8	200	≥100	159204000237

Part of Project Cases-Airports and Station Projects





Chengdu Tianfu International Airport



▲ Zhanjiang West Railway Station Project







▲ Chengdu Railway Station



A Shenyang Metro Line 10

Qingdao New Airport

Part of Project Cases-Government Projects



Beijing City Sub-center



▲ Shunyi District Administrative Center of Beijing



Tianjin Public Security
Bureau Technical
Housing Project



▲ Guangdong-Australia New Corridor Guangdong Joint Inspection Building



▲ Liuzhou Citizen Service Center

Part of Project Cases-Hospital and School Projects

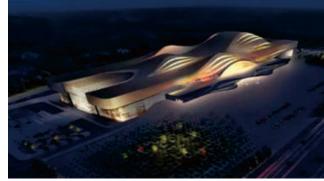




▲ Wuhan Dongxihu Sports Center



A Shangqiu City Arts Center



Langfang Dream
Langfang
Grand Theatre



▲ Zhangjiagang City Staff Cultural



Sports Center Shaanxi Yulin Culture and Art Center



Jining Cultural Center

Part of Project Cases-Hospital and School Projects



Lingang Campus of Shanghai University of Electric Power



▲ New Hospital of the Second Affiliated Hospital of Bengbu Medical College



Southwest Foreign Languages Affiliated School of Beijing Foreign Studies University



▲ Kevin International School of The High School Attached to Tsinghua University



Rizhao International Heart Disease Hospital



Xi'an Qinhuang Hospital

Part of Project Cases- Estate Projects



▲ Light of the times of Hefei Vanke

A Qingdao Rongchuang Urban Center



Guangzhou Fuli Tianhaiwan



▲ Hangzhou Rongchuang Southeast Sea Project



▲ Zhengzhou Rongchuang Zhongyuan Community 1



▲ Beijing Huarun Yalinxi

Part of Project Cases-Commercial Plaza Projects



Dalian Kardan Shopping Mall



Foshan Vanke Financial Center Phase III



▲ Fuzhou Fumin Times Square



 Ningbo Hongxing international Mall



▲ Urumqi Jingkai Wanda Plaza



▲ Zhuhai Baijiada International Center

Projects in Hong Kong, Macao, and overseas





Algier Airport

▲ Ethiopia National Stadium



▲ Djibouti National Library Project



▲ Sunshine city, Vietnam



▲ Vietnam-China Friendship Palace



▲ China and Portuguese-speaking Countries Business Service Cooperation Complex Building