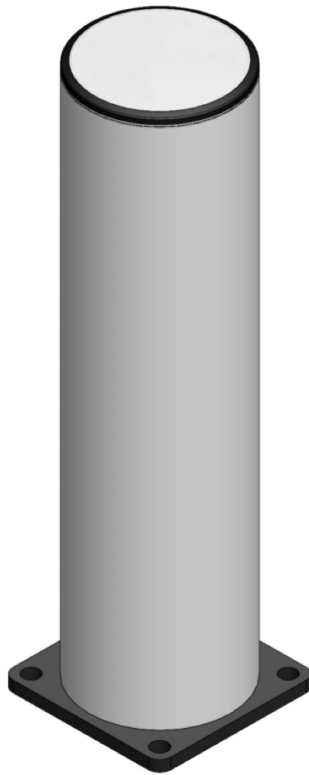


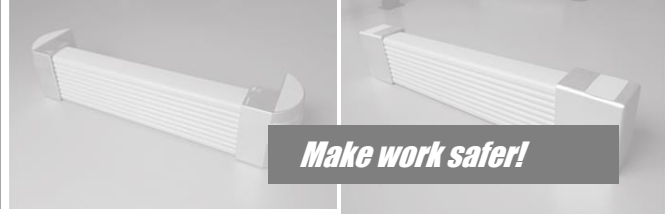
Installation instructions



Applicable for installation of the following products:

60 bollard

Table of Contents



1. Preparation before Installation

1.1 Preparation of labor protection equipment and tools

1.2 Preparation of components

2. Installation guidance for anchor bolts

3. Installation guidance for products

4. Regular maintenance

1.1 Preparation of labor protection equipment and tools

- Labor protection equipment



safety helmet



Wear goggles



wear a mask



Ear protectors



Wear work clothes



protective gloves



Wear safety shoes



Fasten the seat belt

- Installation tools



Electric hammer

Equipped with a $\Phi 18$ drill bit
a $\Phi 14$ drill bit



Brush with holes

$\Phi 19$
 $\Phi 15$



Blow gun



Specialty glue gun

Special for Hu Fish 390
The export business uses mechanical anchor bolts, so
there is no need to use a glue gun. Customers can
configure according to their own needs.

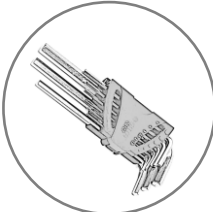


Rubber hammer



Socket wrench

M16 socket, M12 socket



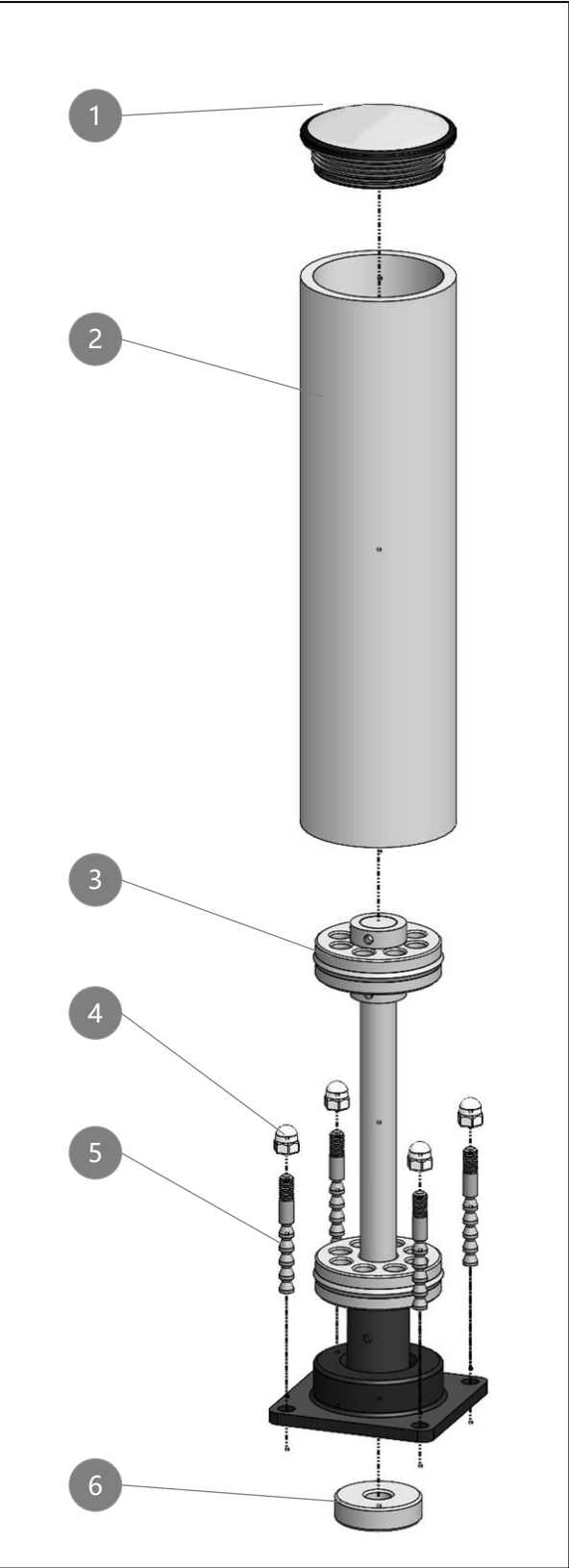
Hexagonal socket
wrench



Measuring tape

1.2 Preparation of components

- Three-dimensional explosion diagram



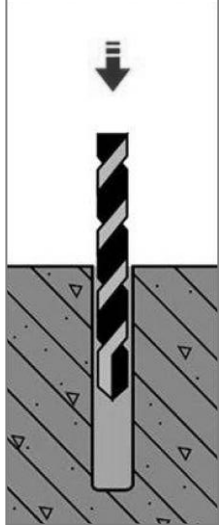
- List of Components (Single Set Quantity)

No.	Material Description	Quantity
1	End cap	1 ↑
2	Column body of the guard post	1 ↑
3	Guard post base assembly	1 ↑
4	Stainless steel band cover nut	4 ↑
5	Inverted conical chemical anchor bolt - M12	4 ↑
6	Rubber pad	1 ↑
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		

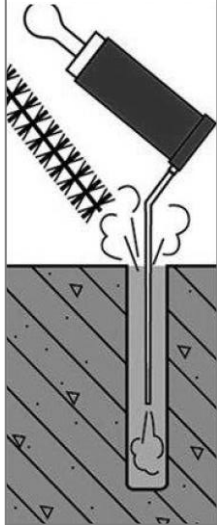
2. Inverted cone chemical anchor installation guide (for export, it is the same as the installation of fences and uses **mechanical anchors** instead)

● Anchor bolt installation steps

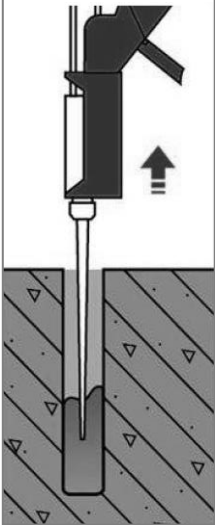
Drill holes in the ground using an electric drill. The depth of the holes should be according to the product installation instructions.



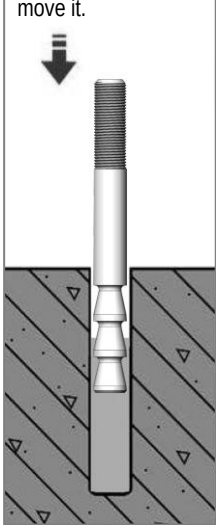
2. Clean the inside of the hole using a brush and an air blower.



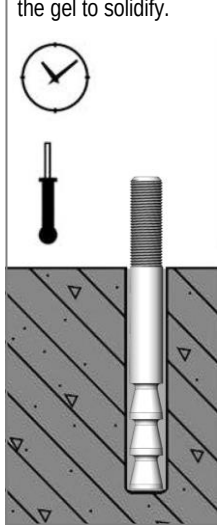
3. Implant the bone grafting adhesive into the holes.



4. Slowly insert the anchor bolt into the hole. During the curing period, do not move it.



5. Wait for an adequate amount of time at the specified temperature to allow the gel to solidify.



● Size of anchor bolt drilling holes

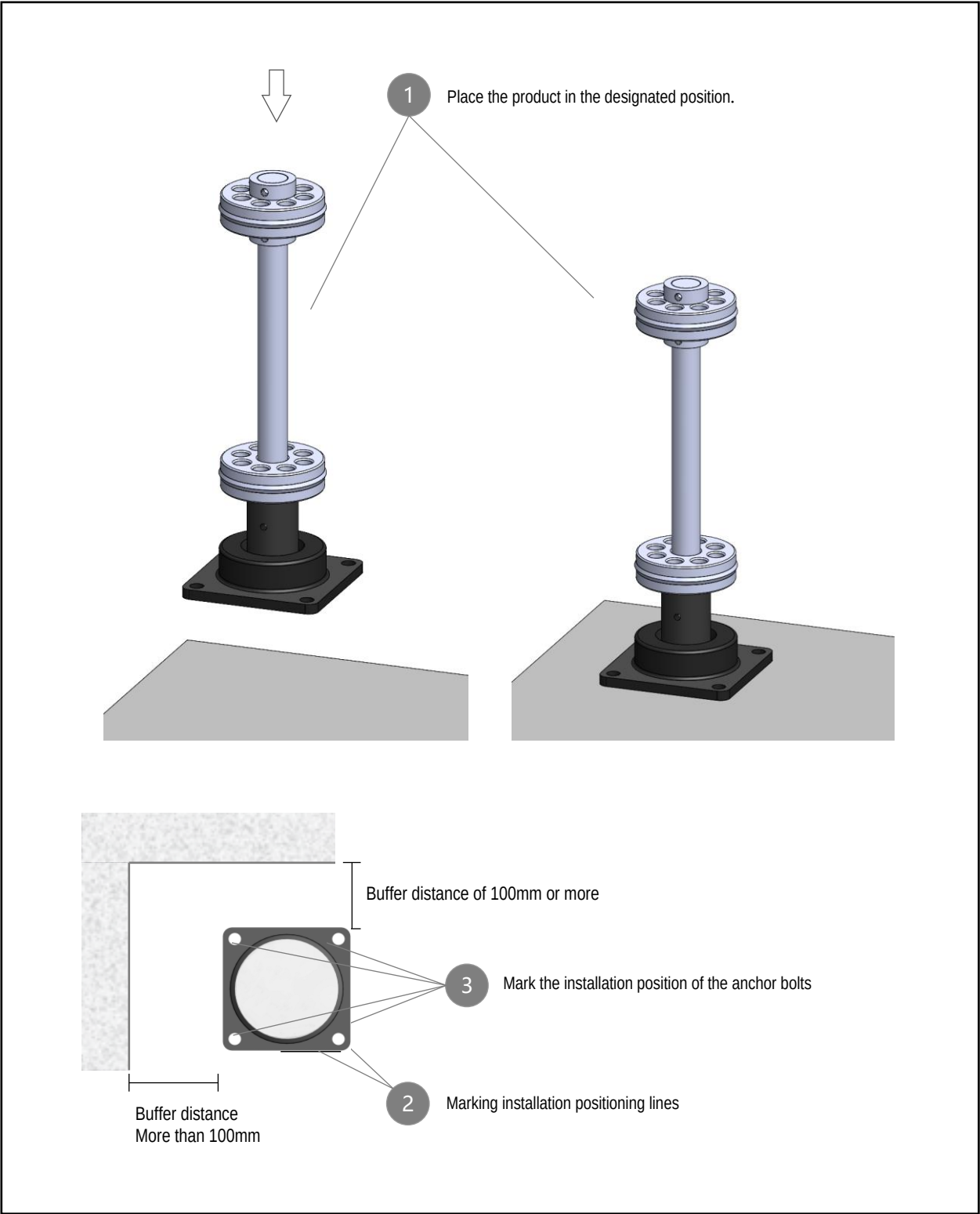
Anchor bolt specification	M20	M16	M12	—
Drill bit size	Φ25	Φ18	Φ14	—

● The installation time and curing time of the bone graft adhesive

Base material temperature ℃	German Hui Fish 390s		German Smart Fish 345S	
	Installation time	Curing time	Installation time	Curing time
-5 ~ 0	240 minutes	200 hours	-	360 minutes
0 ~ 5	150 minutes	90 hours	-	180 minutes
5 ~ 10	120 minutes	40 hours	15 minutes	90 minutes
10 ~ 20	30 minutes	18 hours	6 minutes	35 minutes
20 ~ 30	14 minutes	10 hours	4 minutes	20 minutes
30 ~ 40	7 minutes	5 hours	2 minutes	12 minutes

3.1 Product Installation Guidance

Step 1: Installation Position Location

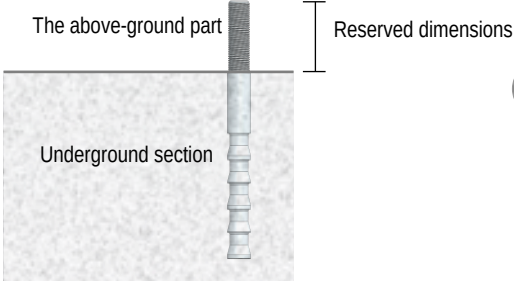


Step 2: Remove the product and install the anchor bolts (refer to "2. Installation Guidance for In verted Conical Chemical Anchors")

3.2 Product Installation Instructions

Step 3 Assembly

Anchor bolt installation depth standard



The above-ground part

Reserved dimensions

Underground section

Reserved dimensions:
M12 anchor bolts, ranging from 20 to 28mm; M16 anchor bolts, ranging from 30 to 36mm.

Installation steps

5

Use a rubber mallet to tap the end cover in.

4

Place the column body over the built-in base and that's it.

3

Thread on the nut & washer. The inner hole of the nut & washer aligns with the inner hole of the guard post. Inside the base assembly of the guard post, the holes align with the outer circle of the rubber pad, the 4 holes are aligned with the 4 anchor bolt positions, and then the guard post base assembly is completely inserted over the anchor bolts.

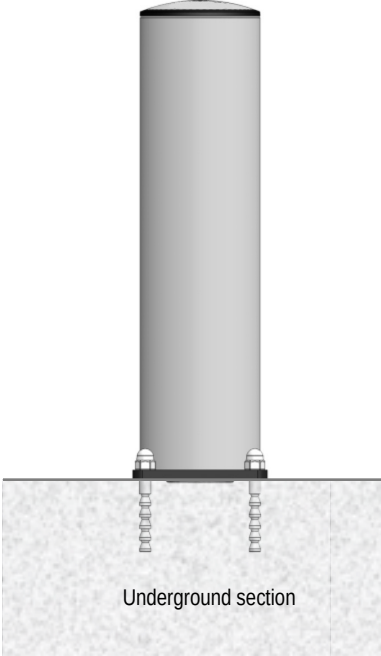
2

Insert the rubber gasket.

1

Insert the rubber gasket.

The post-installation perspective effect



Underground section

Step 4: Surface cleaning. Use a damp towel to wipe away all the dirt on the surface.

7

4. Regular maintenance

- Regular maintenance

Clean the surface of the product once a week with a cleaning agent.

- Abnormal Handling

(1) If the pipe material becomes dirty and cannot be cleaned, you can use degreasing solvent (Tentane water) for cleaning.