



Chiang Yen Cathodic Protection Co.,Ltd

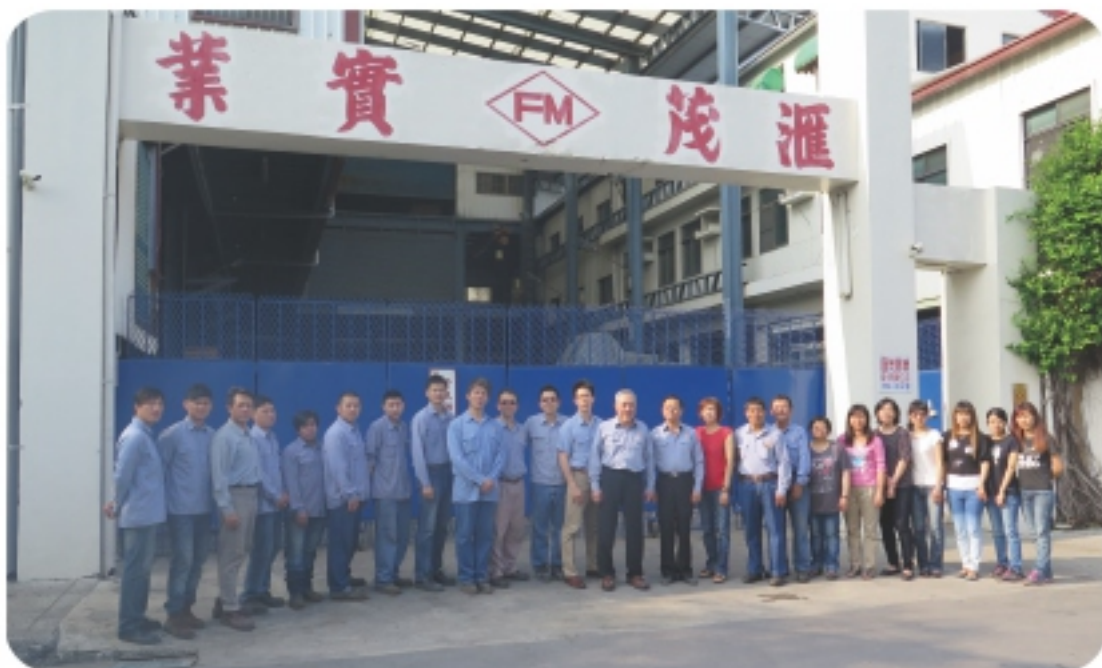


**Off-Shore and Marine CP
Design & Engineering,
Sacrificial Anode Manufacturing**

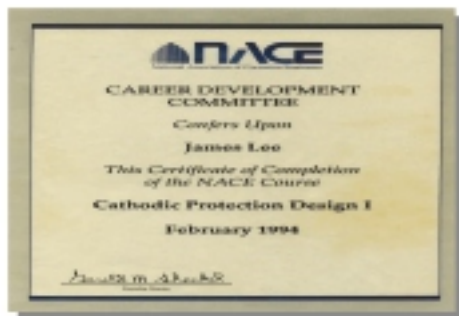
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Company Profile

- Chiang Yen Cathodic Protection (CYCP) was founded in 1995 by a group of corrosion prevention experts. We are a global leader in cathodic protection technology and specialize in customized Impressed Current Cathodic Protection (ICCP) systems design and manufacturing of galvanic and sacrificial anodes.
- CYCP has executed and accumulated over 25 years of CP project experiences worldwide. We have the most complete line of products and have been a top performer among our peers for decades. CYCP has frequently been featured in many industrial journal publications, and has received numerous awards for its excellence in the field.



Awards & Certifications



CYCP's world leading Aluminum and Zinc Alloy Anode earned the highest quality and performance national honor.



Taiwan Best Manufacturer Award

Taiwan Golden Product Award

Best Brand Award

QA & QC

CYCP's anode foundry has been audited and certified by the China Corporation Register of Shipping (CR)



● Zinc Alloy Anode Chemical Composition and Performance Specification: ASTM-B-418 ; MIL-A-18001-K

Chemical Composition		Technical Data	
Fe	0.005% Max	Open-Circuit Potential (-V vs SCE)	$\cong 1.05$
Pb	0.006% Max	Anode Driving Voltage (V vs SCE)	$\cong 0.22$
Cu	0.005% Max	Close-Circuit Potential (-V vs SCE)	$\cong 1.00$
Al	0.1~0.5 %	Current Efficiency (%)	$\cong 98$
Cd	0.025~0.07 %	Current Capacity (A · hr/kg)	$\cong 780$
Zn	99.314% Min	Anode Consumption Rate (kg/A · Yr)	$\cong 11.2$

Item	This Lot	Acid Lot
Open Circuit Potential (V vs SCE)	1.05	1.05
Anode Driving Voltage (V vs SCE)	0.22	0.22
Close Circuit Potential (V vs SCE)	1.00	1.00
Current Efficiency (%)	98	98
Current Capacity (A · hr/kg)	780	780
Anode Consumption Rate (kg/A · Yr)	11.2	11.2

● Aluminum Alloy Anode Chemical Composition and Performance Specification: CNS-13520 ALA2 ; GB/T 4948 ; MIL-A-24779

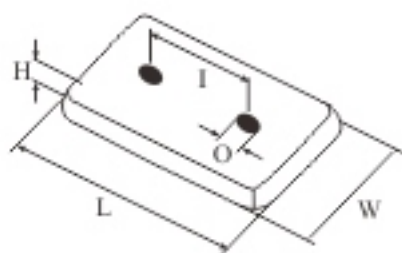
Chemical Composition		Technical Data	
Zn	0.5~10 %	Open-Circuit Potential (-V vs SCE)	$\cong 1.10$
In	0.005~0.05 %	Anode Driving Voltage (V vs SCE)	$\cong 0.25$
Fe	0.12 % Max	Close-Circuit Potential (-V vs SCE)	$\cong 1.08$
Si	0.1 % Max	Current Efficiency(%)	$\cong 90$
Cu	0.01 % Max	Current Capacity (A · hr/kg)	$\cong 2600$
Mg	0.1~5 %	Anode Consumption Rate (kg/A · Yr)	$\cong 3.40$
Ca	0.005~0.05 %		
Cd	<0.001 %		
Hg	<0.001 %		
Al	Remainder		

Item	Value	Unit
Open Circuit Potential (V vs SCE)	1.10	V
Anode Driving Voltage (V vs SCE)	0.25	V
Close Circuit Potential (V vs SCE)	1.08	V
Current Efficiency (%)	90	%
Current Capacity (A · hr/kg)	2600	A · hr/kg
Anode Consumption Rate (kg/A · Yr)	3.40	kg/A · Yr

Zinc/Aluminum Bolt-On Anodes

TYPE	SIZE (mm)	
	H×W×L	(I)
1/2 B-1	20×70×70	
B-1	20×70×150	(75)
B-2	25×70×150	(75)
B-3	20×100×200	(110)
B-4	30×100×200	(110)
B-5	32×100×200	(110)
B-6	36×100×240	(110)
B-7	40×120×280	(110)
B-8	25×150×300	(160)
B-9	30×150×300	(160)
B-10	40×150×300	(160)
B-12	44×150×300	(160)
B-15	50×150×300	(160)
B-16	35×200×300	(160)
B-17	40×200×300	(160)
B-18	50×200×300	(160)
B-25	60×200×300	(160)
B-27	65×200×300	(160)

B Series

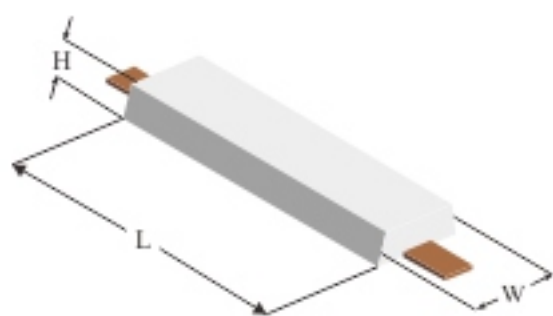


Zinc/Aluminum Weld-On Anodes

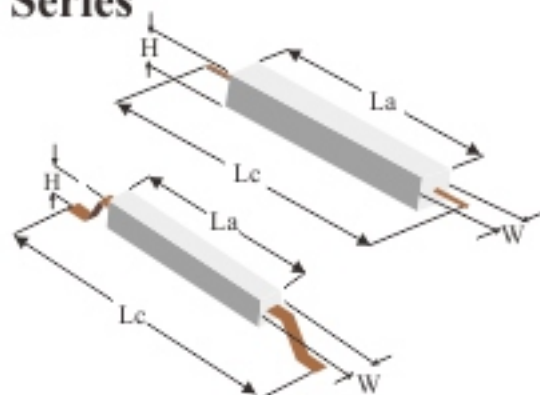
TYPE	SIZE(mm)
	H X W X L
S-2	20X70X150
S-3	20X100X200
S-4	30X100X200
S-5	32X77X306
S-8	25X150X300
S-9	30X150X303
S-10	32X160X305
S-15	50X154X325
S-20	50X100X560
S-30	75X100X563

TYPE	SIZE(mm)
	H X W X L
R-5	50 X 52 X 300
R-7	50 X 50 X 462
R-9	70 X 74 X 258
R-13	89 X 96 X 272
R-14	(58+66)X62X500

S Series



R Series



Zinc/Aluminum Accessories Anodes

N Series



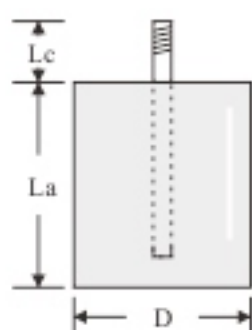
TYPE	SIZE(mm) H X W X La
N-4	13 X 150 X 300
N-6	20 X 150 X 300
N-8	25 X 150 X 300

RM Rod Series



TYPE	SIZE(mm) D X La
RM-30	$\phi 30$ X 300
RM-50	$\phi 50$ X 300

DB Series



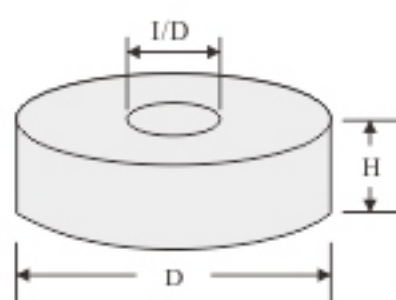
TYPE	SIZE(mm) D X La X Lc
DB-30-40	30 X 40 X 23L(M8)
DB-30-40	30 X 40 X 23L(M10)
DB-40-40	40 X 40 X 23L(M10)

Note : Size can be customized

D Series

TYPE	SIZE(mm) D X H X I/D
D-43-13	43 X 13 X I/D
D-50-50	50 X 50 X I/D
D-50-60	50 X 60 X I/D

Note: Size can be customized



Zinc/Aluminum Shaft Anodes

Zinc Shaft Series



TYPE	SIZE(mm) L X I/D
1	128 X 147
2	118 X 127
3	113 X 119
4	95 X 109
5	90 X 99
6	85 X 88
7	76 X 78
8	66 X 68
9	61 X 58
10	58 X 45
11	52 X 35
12	50 X 33
1-1	120 X 141
1-2	122 X 135
1-L	135 X 158
2-L	140 X 175



User Instructions

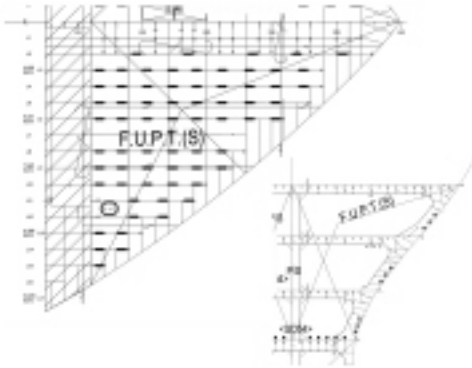
1. Surface of anode and insert must be free of oil, grease, paint or any other foreign material during installation.
2. Nuts, bolts, and washers used with “ B “ type anode must be free from rust and by adding putty to fill the bolt hole is highly recommended.
3. Aluminum anode CANNOT be used in flammable environments i.e. oil/combustible tanks, where Zinc anodes are commonly used instead.
4. Aluminum anode is suitable for use in temperatures $< 70^{\circ}\text{C}$, Zinc anode is suitable for use in temperatures $< 55^{\circ}\text{C}$.
5. Zinc and Magnesium anodes are suitable for fresh water use.
6. We offer certified anode design services and customized anode.

Anode Installations On-site



Engineering Services

CP System Design



Corrosion Inspection



ICCP & MGPS System Inspection and Spare Parts





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