

ProAct™

MMO SURFACE MOUNT ANODE

PRODUCT DESCRIPTION

Surface mount anodes are primarily used for cathodic protection of ship hulls, gates, and the internal surfaces of storage tanks operating in freshwater, saltwater, and seawater environments. They are available in rectangular and disc-type MMO configurations.

PRODUCT PERFORMANCE

Electrocatalytic Performance

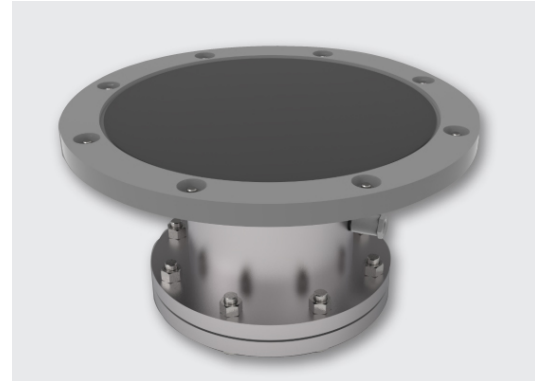
- High electrocatalytic activity, combined with a low and uniform coating loss rate, helps ensure stable current output.

Corrosion & Wear Resistance

- Resistant to seawater corrosion and erosive wear, making it suitable for harsh marine environments.

Service Life

- Provides long-term protection under designed operating conditions.



PRODUCT FEATURES

Protective Structural Design

- A shielding layer around the anode body helps protect the adjacent coating from damage during high-current operations.

Custom Engineering Capability

- Anode configurations can be customized according to the structure type and application requirements.

Reference	Title
DNV-RP-B101	CORROSION PROTECTION OF FLOATING PRODUCTION AND STORAGE UNITS
EN 13173	CATHODIC PROTECTION FOR STEEL OFFSHORE FLOATING STRUCTURES
EN 16222	CATHODIC PROTECTION OF SHIP HULLS
NACE SP0388	IMPRESSED CURRENT CATHODIC PROTECTION OF INTERNAL SUBMERGED SURFACES OF STEEL WATER STORAGE TANKS

PRODUCT PARAMETERS

Chemical Composition								
Standard	Fe %	C %	N %	H %	O %	Other Impurities (Single)%	Other Impurities (Total)%	Ti %
ASTM B265 Gr. 1	<0.20	<0.08	<0.03	<0.015	<0.18	<0.1	<0.4	Remainder
Electrochemical Properties								
Application			Current Density A/m²				Life (year)	
Seawater			600				25	
Coating								
Coating crystal density is 6-12 g/cm3, coating resistivity is 9-11 m Ω • cm								
Coating Thickness								
≥ 8.0 μm								
Anode Insulation Properties								
Resistance between anode body and the mounting frame/waterproof cover in dry condition: > 1 MΩ								
Anode sealing performance								
The anode structure has good waterproof and sealing performance. Under the water pressure of 2 MPa, it is impervious to water for 15 minutes.								

MODELS AND SPECIFICATIONS

MMO Rectangular Anode

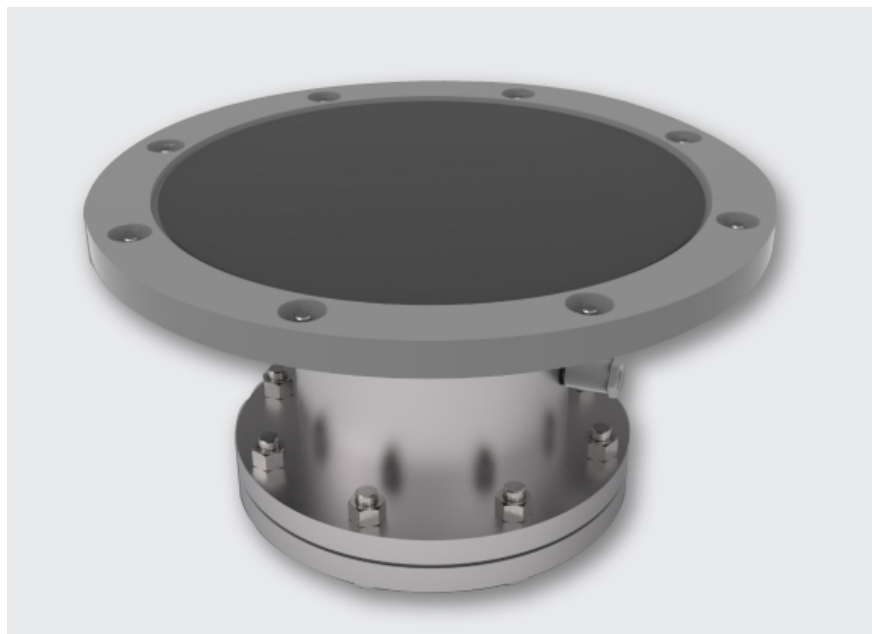
Model	Length (mm)	Width (mm)	Height (mm)	Anode Length (mm)	Anode Width (mm)	Current Output (A)	Life (year)	Coating Thickness (μm)
AT-MMO-P220-70-Se	360	150	25	220	70	9	25	≥8
AT-MMO-P700-70-Se	840	150	25	700	70	29	25	≥8
AT-MMO-P1310-70-Se	1450	150	25	1310	70	55	25	≥8

MMO Disk Anode

Model	Diameter (mm)	Anode Diameter (mm)	Height (mm)	Current Output (A)	Life (year)	Coating Thickness (μm)
AT-MMO-P200-Se	354	200	75	19	25	≥8
AT-MMO-P300-Se	454	300	75	42	25	≥8
AT-MMO-P400-Se	554	400	75	75	25	≥8
AT-MMO-P500-Se	654	500	75	118	25	≥8
AT-MMO-P600-Se	754	600	75	170	25	≥8

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