



SIME

Sealong Marine Engineering Inc



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01 | About us



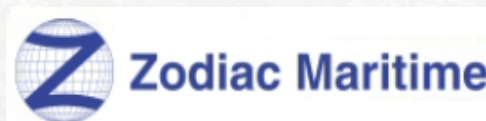
With over 15 years of experience in corrosion protection of hull structures and marine growth prevention, we offer unparalleled expertise and an exceptionally high level of service to customers. Impressed Current Cathodic Protection system (ICCP) and Marine Growth Prevention System (MGPS), as our core technological products, are proved to be the ultimate and most economic solutions against corrosion and bio-fouling.

Our service and sales network covers all major shipowners, shipyards and main ports. Until now our ICCP & MGPS products have been installed on hundreds of vessels and the satisfying feedbacks from these customers reflect the great performance and reliability of our systems.

Furthermore Sealong Marine is Chinese trading leaders for ship spare parts and equipment. Sealong Marine have gained a sound, far-reaching reputation in the shipping industry for our outstanding customer service and absolute reliability.

01 | About us

Cooperative Company



02 | I.C.C.P System

1. System introduction

- Corrosion of hull steel plate in seawater is a kind of natural electrochemical reaction. The hull impressed current cathodic protection device can effectively prevent the corrosion of the water immersion part of the hull.

2. System characteristics

- **1.**With the change of the ship's working conditions (speed, coating and sea water) automatic regulation of the protection of the current;
- **2.**The surface roughness of the hull is suppressed or reduced, and the fuel consumption is reduced;
- **3.**Reduce the electrochemical corrosion of the rudder and propeller;
- **4.**Prolong the dock repair cycle, improve the efficiency of shipping;
- **5.**Applicable to all sizes of ships.

3. Working principle

- The impressed current cathodic protection is by means of a direct current power supply (constant potential instrument), which is protected by the application of the auxiliary anode which is installed on the hull to protect the hull. The system has been widely used in various types of ships and offshore oil drilling platforms, pipelines, wharf steel piles, etc., have achieved good results of protection.



02 | I.C.C.P System

4. System composition

- The impressed current cathodic protection system is composed of constant potential instrument, auxiliary anode and anode shield layer, reference electrode, rudder and propeller shaft grounding device.

I. Auxiliary anode

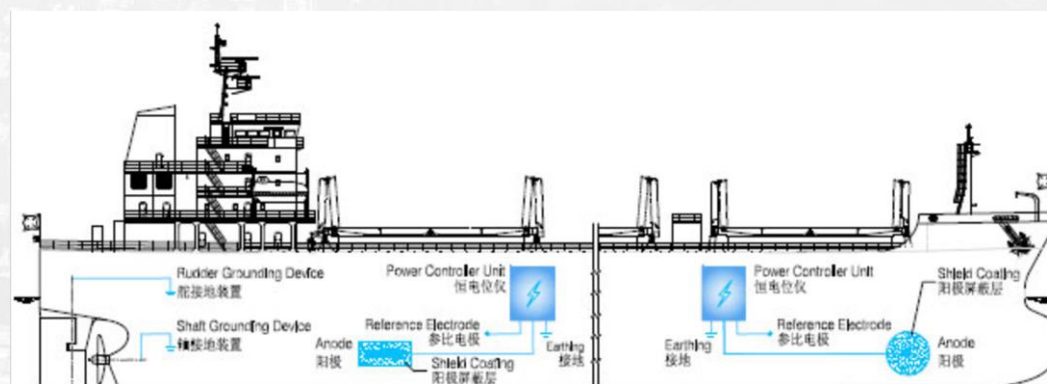
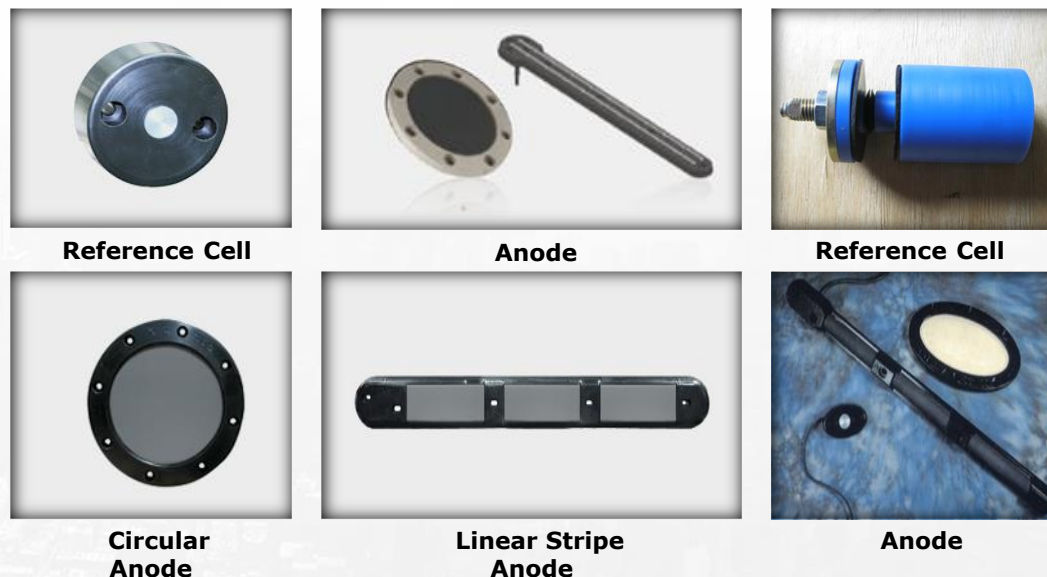
- Used as a current output, which is almost insoluble in itself. Small volume, light weight, large discharge capacity, long life.

II. Reference electrode

- Potential of a protected body as a reference. Stable, accurate, sensitive and robust.

III. Various forms of reference electrode

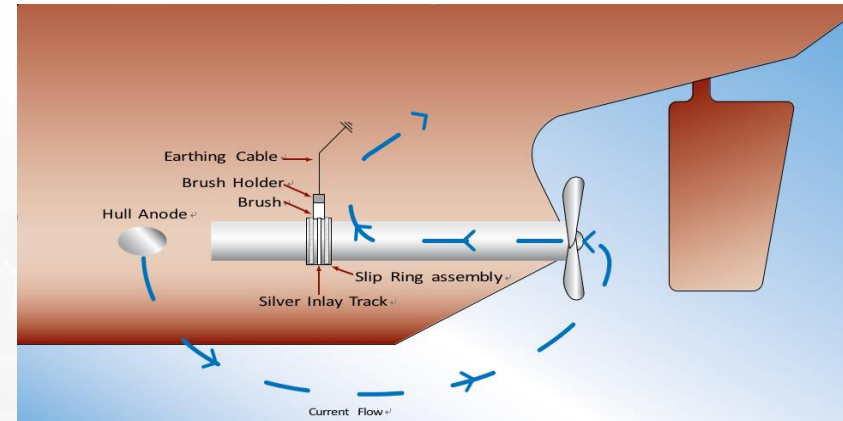
- Potential of a protected body as a reference. Stable, accurate, sensitive and robust.



02 | I.C.C.P System

IV. Shaft Earthing

- We supply complete shaft earthing assemblies consisting of a pair of high silver content/graphite compound brushes mounted in a balanced brush holder, running on a copper slipring with a solid silver inlay track. This combination has been proved to give the optimum electrical continuity.



5. Spare Parts Service & Maintenance

- We provide spares and services for below brand.
- SAACKE JAPAN; DAIKI; CHUO-KOSAN; NIPPON CORROSION; K C; CATHELCO; WILSON WALTON, ETC
- Auxiliary anode ICCP device, a reference electrode, anode shield paint and constant potential instrument
- Supply of Anodes, Ref. electrode, Shield coating & Potentiostat for ICCP
- Repair and maintenance service for ICCP, System Operation Analysis of ICCP



Silver Brush



Brush Holder



Slip Ring



Monitor for Shaft Earthing device



Complete Set



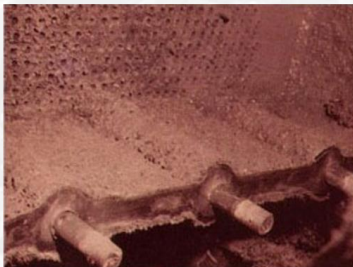
03 | Anti-fouling system

1. Introduction of MGPS

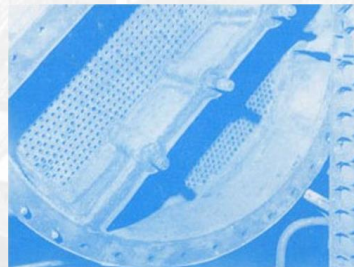
- Bio-fouling commonly occurs in seawater circulation system when barnacles, mussels and other lower forms of marine life as larvae enter pipework, settle on internal surface of pipes where they rapidly grow and multiply if favorable environmental condition exists.

2. Basic Principle

- The Marine Growth Prevention System (MGPS) accomplishes dual tasks - pipework anti-fouling and corrosion suppression, by taking advantages of active metal cations generated based on electrolytic principle and distributing the electrolyte into pipework using flowing seawater as media. The system can dramatically enhance operational efficiency and equipment performance of seawater systems, i.e. water pumps, heat exchangers, condensers, etc.
- **The MGPS system has been widely applied in all kinds of ships, marine engineering and seawater pipework system.**



Condenser without protection



Condenser with protection

3. Features

-Great performance—a dual system combining pipework anti-fouling and corrosion suppression, which keeps corrosion rate under 0.03mm/y and achieve anti-fouling effect above 96%

-Easy installation—anodes can be installed in sea chests or strainers at newbuilding or retrofit



-Based on electrolytic principle providing continuous and reliable protection without the use of chemicals, free of chlorine

-Automatic operation—requires minimal attention and makes very little demand on crew time

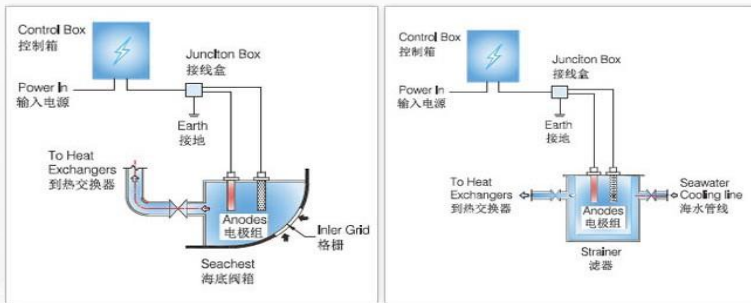


Marine Growth Prevention System

03 | Anti-fouling system

4.Components

- The MGPS system comprises Anti-fouling anode, Anti-corrosion anode, Control Panel, Junction Box, etc.



Typical Seachest Anode Arrangement Diagram **Typical Strainer Anode Arrangement Diagram**

II.Remote Display Unit

- Remote Display Unit with LCD enables crew to easily check all recordings without scroll of display and each location of anodes and reference electrode can be found out on its mimic board. Optional device.

III.Product

- Manufacturing of MGPS System for Marine and Industrial Plant, we can supply with any dimension of electrode as you require, also for other spare parts we will provide with best quality and price to customer.

I.Anode Model and Specification

- Available anodes include: Cu alloy anode, Al alloy anode, Fe alloy anode, Ru-Ti-Ir anode.



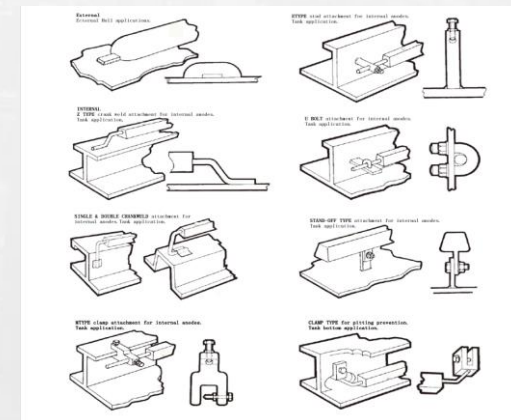
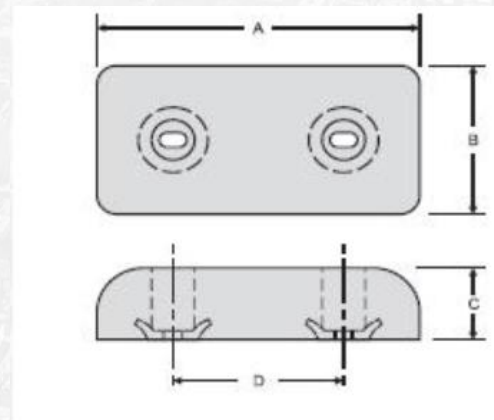
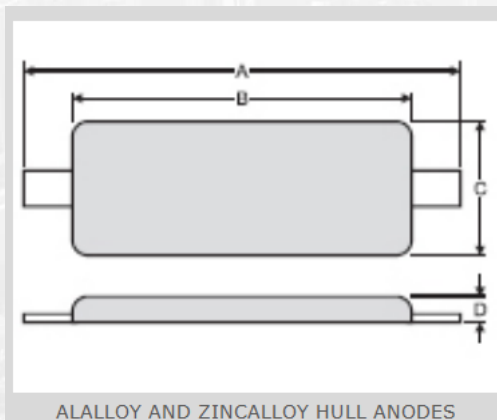
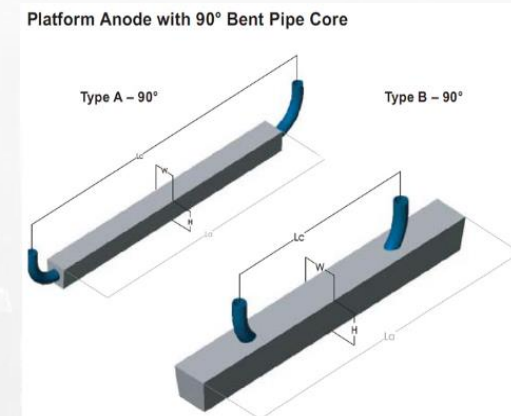
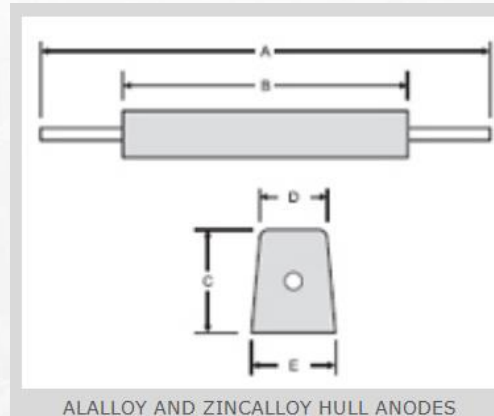
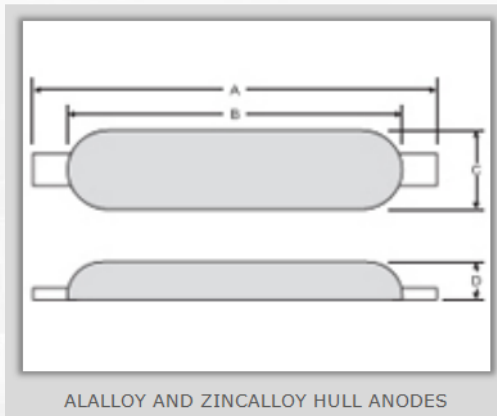
IV.Srvice & Maintenance

- Repair and maintenance service for MGPS,
- System Operation Analysis of MGPS

04 | Sacrificial Anodes

Sacrificial Anodes

- We supply Bolt Type & Welding Type Zinc/Aluminum anode with any dimension or weight as you require.



05 | Marine Electric-motor

Marine Electric-motor

- SME also focus on the production of all kinds of Marine Electric Motors, our factory is located in Wuxi, we customer trailer the moter as owners' require.



YVF2-H系列船用变频调速三相异步电动机

YVF2-H Series Variable Frequency Adjustable Speed Three Phase Marine Induction Motor

| | | |
|---|----------------------------|---------------------------|
| 用途 / APPLICATION | 机座号(Frame Size): | 63-560 |
| 适用于船舶上作驱动各种机械,如泵类、通风机、分离器、液压机械及其它辅助设备之用。 | 功率(Power): | 0.12-1000kW |
| | 电压(Voltage): | 380V或440V (380V or 440V) |
| | 频率(Frequency): | 50Hz或60Hz (50Hz or 60 Hz) |
| The motors are suitable for driving various machines on ships,such as pumps, blowers, separators, hydraulic engines and other auxiliary equipments. | 防护等级(Protection Class): | IP23-IP56 |
| | 绝缘等级(Insulation Class) | B级或F级或H级 (B or F or H) |
| | 环境温度(Ambient Temperature): | 0°C-45°C |
| | 海拔(Altitude): | 0m |



Y-H系列船用三相异步电动机

Y-H Series Three Phase Marine Induction Motor

| | | |
|---|----------------------------|---------------------------|
| 用途 / APPLICATION | 机座号(Frame Size): | 63-560 |
| 适用于船舶上作驱动各种机械,如泵类、通风机、分离器、液压机械及其它辅助设备之用。 | 功率(Power): | 0.12-1200kW |
| | 电压(Voltage): | 380V或440V (380V or 440V) |
| | 频率(Frequency): | 50Hz或60Hz (50Hz or 60 Hz) |
| The motors are suitable for driving various machines on ships,such as pumps, blowers, separators, hydraulic engines and other auxiliary equipments. | 防护等级(Protection Class): | IP44-IP56 |
| | 绝缘等级(Insulation Class) | B级或F级或H级 (B or F or H) |
| | 环境温度(Ambient Temperature): | 0°C-45°C |
| | 海拔(Altitude): | 0m |



YB2-H系列船用隔爆型三相异步电动机

YB2-H Series Explosion-proof Three Phase Marine Induction Motor

| | | |
|--|------------------|--------|
| 用途 / APPLICATION | 机座号(Frame Size): | 80-355 |
| 用于船舶上具有A、B、C、D、E、F、G、H、I、J、K、L、M、N、O、P、Q、R、S、T、U、V、W、X、Y、Z、AA、AB、AC、AD、AE、AF、AG、AH、AI、AJ、AK、AL、AM、AN、AO、AP、AQ、AR、AS、AT、AU、AV、AW、AX、AY、AZ、BA、BB、BC、BD、BE、BF、BG、BH、BI、BJ、BK、BL、BM、BN、BO、BP、BQ、BR、BS、BT、BU、BV、BW、BX、BY、BZ、CA、CB、CC、CD、CE、CF、CG、CH、CI、CJ、CK、CL、CM、CN、CO、CP、CQ、CR、CS、CT、CU、CV、CW、CX、CY、CZ、DA、DB、DC、DD、DE、DF、DG、DH、DI、DJ、DK、DL、DM、DN、DO、DP、DQ、DR、DS、DT、DU、DV、DW、DX、DY、DZ、EA、EB、EC、ED、EE、EF、EG、EH、EI、EJ、EK、EL、EM、EN、EO、EP、EQ、ER、ES、ET、EU、EV、EW、EX、EY、EZ、FA、FB、FC、FD、FE、FF、FG、FH、FI、FJ、FK、FL、FM、FN、FO、FP、FQ、FR、FS、FT、FU、FV、FW、FX、FY、FZ、GA、GB、GC、GD、GE、GF、GG、GH、GI、GJ、GK、GL、GM、GN、GO、GP、GQ、GR、GS、GT、GU、GV、GW、GX、GY、GZ、HA、HB、HC、HD、HE、HF、HG、HH、HI、HJ、HK、HL、HM、HN、HO、HP、HQ、HR、HS、HT、HU、HV、HW、HX、HY、HZ、IA、IB、IC、ID、IE、IF、IG、IH、II、IJ、IK、IL、IM、IN、IO、IP、IQ、IR、IS、IT、IU、IV、IW、IX、IY、IZ、JA、JB、JC、JD、JE、JF、JG、JH、JI、JJ、JK、JL、JM、JN、JO、JP、JQ、JR、JS、JT、JU、JV、JW、JX、JY、JZ、KA、KB、KC、KD、KE、KF、KG、KH、KI、KJ、KK、KL、KM、KN、KO、KP、KQ、KR、KS、KT、KU、KV、KW、KX、KY、KZ、LA、LB、LC、LD、LE、LF、LG、LH、LI、LJ、LK、LL、LM、LN、LO、LP、LQ、LR、LS、LT、LU、LV、LW、LX、LY、LZ、MA、MB、MC、MD、ME、MF、MG、MH、MI、MJ、MK、ML、MN、MO、MP、MQ、MR、MS、MT、MU、MV、MW、MX、MY、MZ、NA、NB、NC、ND、NE、NF、NG、NH、NI、NJ、NK、NL、NM、NO、NP、NQ、NR、NS、NT、NU、NV、NW、NX、NY、NZ、OA、OB、OC、OD、OE、OF、OG、OH、OI、OJ、OK、OL、OM、ON、OO、OP、OQ、OR、OS、OT、OU、OV、OW、OX、OY、OZ、PA、PB、PC、PD、PE、PF、PG、PH、PI、PJ、PK、PL、PM、PN、PO、PP、PQ、PR、PS、PT、PU、PV、PW、PX、PY、PZ、QA、QB、QC、QD、QE、QF、QG、QH、QI、QJ、QK、QL、QM、QN、QO、QP、QQ、QR、QS、QT、QU、QV、QW、QX、QY、QZ、RA、RB、RC、RD、RE、RF、RG、RH、RI、RJ、RK、RL、RM、RN、RO、RP、RQ、RR、RS、RT、RU、RV、RW、RX、RY、RZ、SA、SB、SC、SD、SE、SF、SG、SH、SI、SJ、SK、SL、SM、SN、SO、SP、SQ、SR、SS、ST、SU、SV、SW、SX、SY、SZ、TA、TB、TC、TD、TE、TF、TG、TH、TI、TJ、TK、TL、TM、TN、TO、TP、TQ、TR、TS、TT、TU、TV、TW、TX、TY、TZ、UA、UB、UC、UD、UE、UF、UG、UH、UI、UJ、UK、UL、UM、UN、UO、UP、UQ、UR、US、UT、UU、UV、UW、UX、UY、UZ、VA、VB、VC、VD、VE、VF、VG、VH、VI、VJ、VK、VL、VM、VN、VO、VP、VQ、VR、VS、VT、VU、VV、VW、VX、VY、VZ、WA、WB、WC、WD、WE、WF、WG、WH、WI、WJ、WK、WL、WM、WN、WO、WP、WQ、WR、WS、WT、WU、WV、WW、WX、WY、WZ、XA、XB、XC、XD、XE、XF、XG、XH、XI、XJ、XK、XL、XM、XN、XO、XP、XQ、XR、XS、XT、XU、XV、XW、XX、XY、XZ、YA、YB、YC、YD、YE、YF、YG、YH、YI、YJ、YK、YL、YM、YN、YO、YP、YQ、YR、YS、YT、YU、YV、YW、YX、YY、YZ、ZA、ZB、ZC、ZD、ZE、ZF、ZG、ZH、ZI、ZJ、ZK、ZL、ZM、ZN、ZO、ZP、ZQ、ZR、ZS、ZT、ZU、ZV、ZW、ZX、ZY、ZZ | | |



YZ-H系列船用起重用三相异步电动机(国外)

YZ-H Series Three Phase Marine Induction For Hoisting(Foreign)

| | | |
|--|----------------------------|---------------------------|
| 用途 / APPLICATION | 机座号(Frame Size): | 200-280 |
| 适用于各类船舶作短时定期的甲板机械电力拖动之用。如锚机、绞盘机及绞车等。也可作操作不频繁的起重机的动力。 | 功率(Power): | 1.5-135kW |
| | 电压(Voltage): | 380V或440V (380V or 440V) |
| | 频率(Frequency): | 50Hz或60Hz (50Hz or 60 Hz) |
| The motors are suitable for short-time electric dragging for deck machinery, such as winches, capstans and so on. They also can be power supply for the loading winch doesn't work frequently. | 防护等级(Protection Class): | IP56 |
| | 绝缘等级(Insulation Class) | B级或F级 (B or F) |
| | 环境温度(Ambient Temperature): | -25°C-45°C |
| | 海拔(Altitude): | 0m |



YT2-H系列船用轴流风机用三相异步电动机

YT2-H Series Three Phase Marine Induction Motor for Axial Flow Fan

| | | |
|---|----------------------------|---------------------------|
| 用途 / APPLICATION | 机座号(Frame Size): | 63-355 |
| 适用于各种船用通风设备上。 | 功率(Power): | 0.12-315kW |
| | 电压(Voltage): | 380V或440V (380V or 440V) |
| | 频率(Frequency): | 50Hz或60Hz (50Hz or 60 Hz) |
| The motors are suitable for every kind of marine ventilating devices. | 防护等级(Protection Class): | IP44-IP56 |
| | 绝缘等级(Insulation Class) | B级或F级或H级 (B or F or H) |
| | 环境温度(Ambient Temperature): | 0°C-45°C |
| | 海拔(Altitude): | 0m |



YVF2-H系列船用变频调速三相异步电动机(起重型)

YVF2-H Series Variable Frequency Adjustable Speed Three Phase Marine Induction Motor For Hoisting

| | | |
|---|----------------------------|---------------------------|
| 用途 / APPLICATION | 机座号(Frame Size): | 63-560 |
| 适用于各类船舶作短时(长时)定期的甲板机械电力拖动之用。如锚机、绞盘机及绞车等。也可作起重机的动力。 | 功率(Power): | 0.12-1000kW |
| | 电压(Voltage): | 380V或440V (380V or 440V) |
| | 频率(Frequency): | 50Hz或60Hz (50Hz or 60 Hz) |
| The motors are suitable for short-time long-time electric dragging for deck machinery,such as winches, capstans and so on. They also can be power supply for the loading winch. | 防护等级(Protection Class): | IP56 |
| | 绝缘等级(Insulation Class) | B级或F级或H级 (B or F or H) |
| | 环境温度(Ambient Temperature): | -25°C-45°C |
| | 海拔(Altitude): | 0m |



Z.C系列船用直流电动机

Z.C Series Marine DC Motor

| | | |
|--|----------------------------|---------------------------|
| 用途 / APPLICATION | 机座号(Frame Size): | 1#-6# |
| 适用于恒功率调速范围不大于2:1,过载能力不大于1.5倍的电动机(电压控制、励磁电压控制)的调速控制。励磁电压控制不同的励磁电压可以100%, 220%, 也可以其他适合的电压。 | 功率(Power): | 0.8-200kW |
| | 电压(Voltage): | 110V或220V (110V or 220V) |
| | 频率(Frequency): | 50Hz或60Hz (50Hz or 60 Hz) |
| Applicable to constant power speed range of not more than 2:1, the overload capacity of not more than 1.5 times the rated torque of the power drop in order to adapt to a wide range of constant torque control and precision speed control, the excitation voltage according to the different excitation power can be 110 volts, 220 volts, can also be other suitable voltage. | 防护等级(Protection Class): | IP23 |
| | 绝缘等级(Insulation Class) | B级或F级或H级 (B or F or H) |
| | 环境温度(Ambient Temperature): | -25°C-50°C |
| | 海拔(Altitude): | 0m |



YZR-H系列船用起重及冶金用三相异步电动机

YZR-H Series marine lifting and metallurgical Three-Phase asynchronous Motor

| | | |
|---|----------------------------|---------------------------|
| 用途 / APPLICATION | 机座号(Frame Size): | 112-400 |
| 适用于短时或断续运转,频繁启动、制动、有时有过负荷的起重及冶金设备上平移和起升机构上的驱动和制动。 | 功率(Power): | 1.8-270kW |
| | 电压(Voltage): | 380V或440V (380V or 440V) |
| | 频率(Frequency): | 50Hz或60Hz (50Hz or 60 Hz) |
| The motors are suitable for short-term or intermittent operation, frequent start-up, broke, and sometimes overloaded lifting and metallurgical equipment on the translation and lifting mechanism on the drive and brake. | 防护等级(Protection Class): | IP44 |
| | 绝缘等级(Insulation Class) | F级(F) |
| | 环境温度(Ambient Temperature): | -20°C-45°C |
| | 海拔(Altitude): | 0m |



JZ2-H系列船用起重用三相异步电动机

JZ2-H Series Three Phase Marine Induction For Hoisting

| | | |
|--|----------------------------|---------------------------|
| 用途 / APPLICATION | 机座号(Frame Size): | 1#-7# |
| 适用于船舶上作短时和断续运行的电力拖动之用。如锚机、绞盘机及绞车等甲板机械。 | 功率(Power): | 1.5-60kW |
| | 电压(Voltage): | 380V或440V (380V or 440V) |
| | 频率(Frequency): | 50Hz或60Hz (50Hz or 60 Hz) |
| The motors are recommended for short-time or intermittent drive of the winches and capstans. | 防护等级(Protection Class): | IP56 |
| | 绝缘等级(Insulation Class) | B级或F级 (B or F) |
| | 环境温度(Ambient Temperature): | -25°C-45°C |
| | 海拔(Altitude): | 0m |



YBT-H系列船用隔爆型三相异步电动机

YBT-H Series Explosion-proof Three Phase Marine Induction Motor

| | | |
|---|----------------------------|---------------------------|
| 用途 / APPLICATION | 机座号(Frame Size): | 80-355 |
| 用于防爆标志为ExdII BT4,温度级别为T1-T4组的可燃性气体或蒸汽与空气形成的爆炸性混合物的场所。与CBZ-1型船用防爆轴流风机配套使用。 | 功率(Power): | 0.55-315kW |
| | 电压(Voltage): | 380V或440V (380V or 440V) |
| | 频率(Frequency): | 50Hz或60Hz (50Hz or 60 Hz) |
| They can be used in the place where protection mark is Exd II BT4 and fulfill flammable gas temperature is from T1-T4 and explosive mixture. They can be used as supporting equipment with CBZ-1 explosion-proof axial flow fan on ships. | 防护等级(Protection Class): | IP55-IP56 |
| | 绝缘等级(Insulation Class) | F级(F) |
| | 环境温度(Ambient Temperature): | -20°C-45°C |
| | 海拔(Altitude): | 0m |



YBZα-H系列船用起重用隔爆型三相异步电动机

YBZα-H Series Explosion-proof Three Phase Marine Induction Motor For Hoisting

| | | |
|--|----------------------------|---------------------------|
| 用途 / APPLICATION | 机座号(Frame Size): | 112-315 |
| 适用于船舶上II B级,温度级别为T1-T4 (S2-30min)工作制,防爆标志为Exd II BT4组可燃性气体或蒸汽与空气形成的爆炸性混合物场所起用的电力机械。 | 功率(Power): | 1.5-135kW |
| | 电压(Voltage): | 380V或440V (380V or 440V) |
| | 频率(Frequency): | 50Hz或60Hz (50Hz or 60 Hz) |
| They can be used as electric machinery of hoisting on ships where protection mark is II B temperature class is from T1-T4 duty is S2-30min and fulfill flammable gas and explosive mixture | 防护等级(Protection Class): | IP56 |
| | 绝缘等级(Insulation Class) | B级或F级 (B or F) |
| | 环境温度(Ambient Temperature): | -25°C-45°C |
| | 海拔(Altitude): | 0m |



YZ-H系列船用起重用三相异步电动机

YZ-H Series Three Phase Marine Induction For Hoisting

| | | |
|--|----------------------------|---------------------------|
| 用途 / APPLICATION | 机座号(Frame Size): | 112-315 |
| 适用于各类船舶作短时定期的甲板机械电力拖动之用。如锚机、绞盘机及绞车等。也可作操作不频繁的起重机的动力。 | 功率(Power): | 1.5-135kW |
| | 电压(Voltage): | 380V或440V (380V or 440V) |
| | 频率(Frequency): | 50Hz或60Hz (50Hz or 60 Hz) |
| The motors are suitable for short-time electric dragging for deck machinery, such as winches, capstans and so on. They also can be power supply for the loading winch doesn't work frequently. | 防护等级(Protection Class): | IP56 |
| | 绝缘等级(Insulation Class) | B级或F级 (B or F) |
| | 环境温度(Ambient Temperature): | -25°C-45°C |
| | 海拔(Altitude): | 0m |

06 | Heat Exchanger

1. Plate Type Heat Exchanger

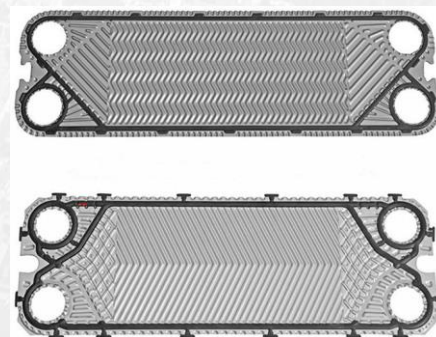
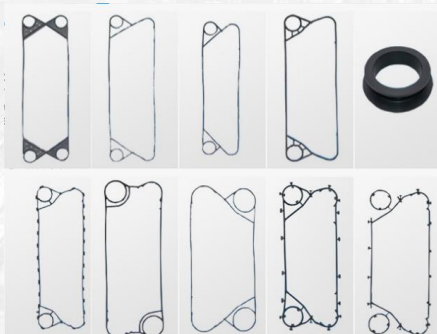
- We supply complete machine or the spare parts like plates and plates gasket no matter the brand. We service all popular plates and models, including **Tranter, SWEP, HISAKA, Schmidt, Alfa Laval, GEA, APV, Sondex, VICARB** and others.

2. Plate Material

- Austenite Stainless Steel: 304, 316L, 904L, 254SMO
- Titanium and Titanium Alloy: Ti, Ti-Pd
- Nickel and Nickel Alloy: Hastalloy C-276, Monel, Inconel

3. Gasket Material

- NBR (NS)
- 90-NBR
- HNBR
- EPDM (ES)
- 90-EPDM
- H-EPDM



4. Production List

Alfa Laval :

M3 M6 M6M M6MX-R M6MX-L M10B M10M M10BW M15B M15M
M15B Lip MK15BW M20M MX25B MX25M M30 MA30M MA30W
TL6B TL10B T20B T20P T20M TS6M TS20M
P22 P26 P31-P P31-D P32 P36 A10 A10B-R A10B-L AM10
A15 A15B A20 A20B AK20 AM20 AM20B AX30 AX30B AX30BW
Clip 8 Clip 10 H10 EC50 EC150 EC350 EC500 etc

GEA :

VT04P VT10F VT20-C VT20-G VT20P VT40-C VT40-G VT40 P/M VT40P
VT80-C VT80-G VT80M VT80P VT805 VT130F VT130K VT1306 VT2508
LWC100T FA 184 FA 184 Ch FA 192 FA 192 Ch N40 NT50TNT50X NT50M
NT100T NT100M NT100X NT150S NT150L NT250S NT250L NT350S etc

APV :

A055 A085 H17-C H17-G J060 J092 J107 R5-R R5-L
M60 M92 M107 N35-C N35-G N50 SR14AP K71-C K71-G etc

HISAKA :

EX11 EX15 LX20 LX40 LX00A LX10A LX20A LX30A LX40A LX50A
RX10A RX11A RX30A RX70 UX10A UX20A UX30A UX40A UX01 UX10
UX20 UX30 UX40 UX80 UX90 SX40(41) SX40A etc

TRANTER :

GX12 GXP018 GXP026 GXP042 GXP051 GXD012 GXD026 GXD042
GXD051 GXD060 GXD085 GXD145 GCD030 GCD054 GCD-54
GCP016 GCP026 GCP051 GCP060 GFP050 GFP100 GLD013 GLP013
S3/GFP030 S8/GFP080 GX-26 GX-51 GC-51 etc

SONDEX :

S8 S15 S20 S21 S22 S30 S35 S37 S38
S39 S43 S47 S50 S62 S64 S65-C S65-G S121
S188 S4A S7A S8A S14A S20A S21A SFD13 etc

Schmidt :

Sigma16 Sigma17 Sigma22 Sigma27 Sigma30 Sigma32 Sigma37 Sigma64
Sigma85 Sigma114 SigmaM27 SigmaM36 SigmaM37 SigmaM66
SigmaM76 SigmaM106 SigmaX13 SigmaX19 SigmaX29 Star45 Star90

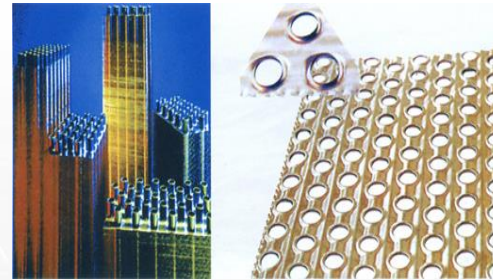
VICARB :

V4 V8 VU8 V13-C V13-G V20-C V20-G
V28-C V28-G V45-C V45-G V60-G V85-G etc

06 | Heat Exchanger

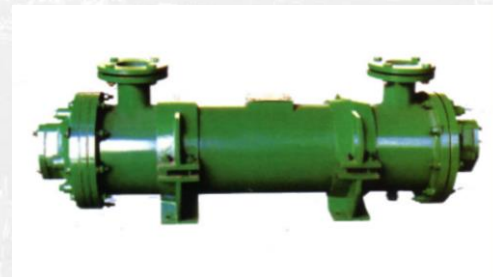
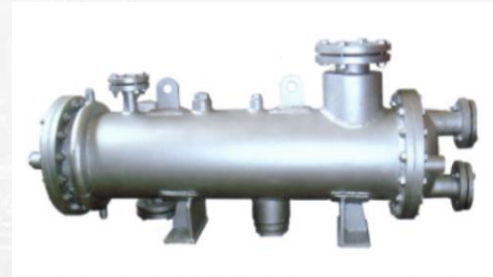
5. Air-Cooler

- We supply all types of diesel air-coolers that are good efficiency and compact heat exchangers used to cool diesel and increase air pressure to raise efficiency greatly, Which can support diesels (B&W/MAN/MWM/MTY/PC/PA/YAMA/SULZER/MARK/DE UTE/ STEYR/COMMINS)



6. Atmos Condenser

- The condenser shell expansion type of horizontal shell and straight tubes. The ends of the cooling tubes are connected separately to left and right tube plates by mass of expansion. Left and right tubes plates are linked to the covers with bolts and collar bolts.
- BLG, LOG series Lubricating oil and fresh water cooler is used to cool lubricating oil and fresh water of diesel engine, this cooler is shell expansion type of horizontal shell and straight tubes.



07 | Diesel Engine Parts

Diesel Engine Parts

- We are also the professional supplier in providing the low-speed and medium-speed marine diesel engine spares. What's more, MAN B&W type engines are our advantaged types, especially MAN B&W 16/24 21/31 23/30H spares are the traditional products we can provided. We can offer you the correct spares with high quality, favorite price as well as reasonable delivery time as long as you give us the part No. you required. The main scope of work includes but not limited to:
- **SULZE**:2 Stroke engineRLB 56/66/76/90 RTA38/48/52/60/60/76/84 RND68/76/90(M)---OEM parts made in China from Hudong heavy industry.
4 Stroke engineA(S)L25/30 S20 ---OEM parts made in Europe
- **MAN B&W**:2 Stroke engineL45/67/80GFCAL35/42/50/60MCS26/35/42/46/50/60/70MC-CS50/60ME-B(C)8.2/9.2G50/60ME-B(C)9.2 ---OEM parts made in China from Hudong heavy industry.
4 Stroke engineL16/24,21/31,23/30(H) 27/38 32/40---Genuine parts from Zhenjiang MAN B&W.
- **WARTSILA**:2 Stroke engineRT-FLEX 50/60 B/D ---OEM parts made in China from Hudong heavy industry.
4Stroke engine4-9L20---Equivalent parts made in China.
- **YANMAR**:Genuine Yanmar parts for All type G/E,Life boat engine,Air compressor.Pls advise Engine Series number and Vessel information in case of inquiry.
- **DAIHATSU**:DK 20/26/28 DL 20/22/24/26/28 PSHTB-26H/26D DC-17---OEM parts made in China from Shanxi Daihatsu or Anqing Daihatsu.
- **KOBE**:6UET 45/75C,6UET52/90D,6UEC 52/105(E)(C),6UEC-37H-IIB,6UEC 37/88H
- **AKASAKA MITSUBISHI**:6UEC 37LA,6UEC 45LA,6UEC 52L(A),6UEC 60L(A),6UEC 37/88H
- **HANSHIIN**:6LU(D)26,6LUN28A,6LU-28,6LU(D)3, 6LU(D)35, 6LU(S)38, 6LU(S)40,6LU46(A),6LU50(A),EL-30(RG),EL(S)-32,EL(S)-35,EL-38,EL-40,EL(S)-44

08 | Spare Parts

1. Hatch Cover System

- By professional technology , We produces all types of **TTS & MacGREGOR** hatch cover accessories such as hatch cover rubber seal, quick acting cleats, battening bolts, hatch cover chains, chain sprockets, running wheels, link plates, hydraulic jacks etc.

2. Wire Rope

- We provide with the famous brand in China **GUIZHOU WIRE ROPE and JIANGSU LANGSHAN WIRE ROPE** ref to costumers' drawing or dimension, We can deliver ropes directly on board. Our ropes are extensively used in crane, davit, winch, elevator, etc with class certificates and factory report. We also have wire rope accessories in stock such as wedge socket, thimble, sleeve, ferrule, mechanical spiced eye. Making a safe working condition for your equipment and crews on board. Ensuring your property from danger and risk.

3. Anchors System

- Deals in high quality boat steel anchors, anchor chains, windlass. All the anchors and chains is with CERT as costumers' requirement (**BV,LR,NK,DNV,CCS,ABS,RINA,etc**). It's our advantage to provide most efficient prices and service for boats, ships, offshore oil platforms thanks to excellent relationship with our factories which are located in Qingdao&Wuhan. We have better prices than most manufacturers, because of our own stocks in China. All kinds of anchors could be traded by us. The anchor types covers speck anchor, USA weld type stockless anchor, JIS stockless anchor, HHP anchor, single fluke anchor, hall anchor, Delta anchor, Danforth anchor, and admiralty anchor, etc.





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