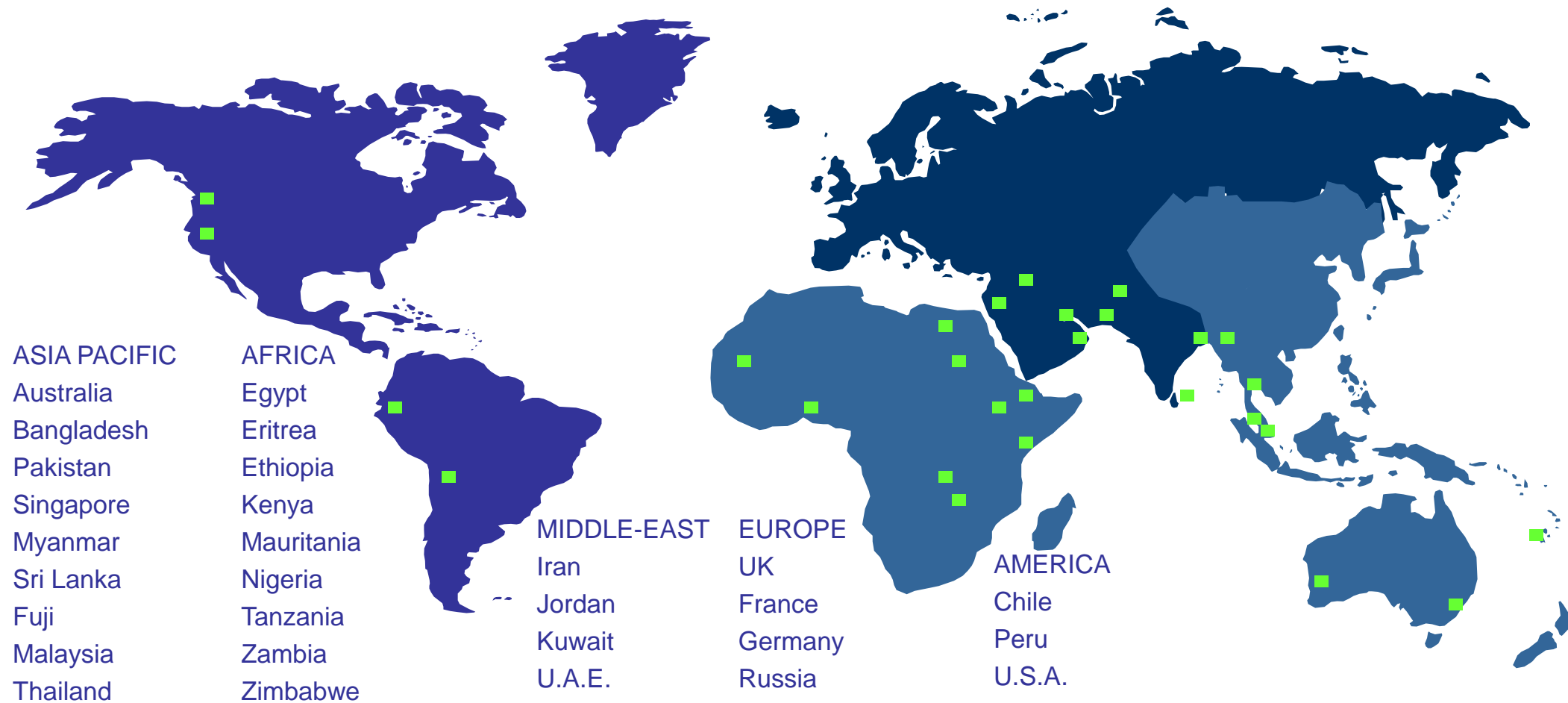


# Introduction of AVIC International



- Former China National Aero-Technology Import & Export Corporation (CATIC) reorganized to AVIC International Co. in 2009.
- CATIC was founded on Jan 21, 1979.
- State-owned Enterprise
  - with 30,000 Employees
  - Belongs to AVIC Group: 400,000 Employees, 200 Factories, 33 Design Institutes. Among the top 500 in the world.
- Annual Import & Export Volume 4.2 billion USD (2008)
- Annual Sales Income 32.5 billion RMB
- Total Assets 50 billion RMB
- Experienced in engineering and EPC project

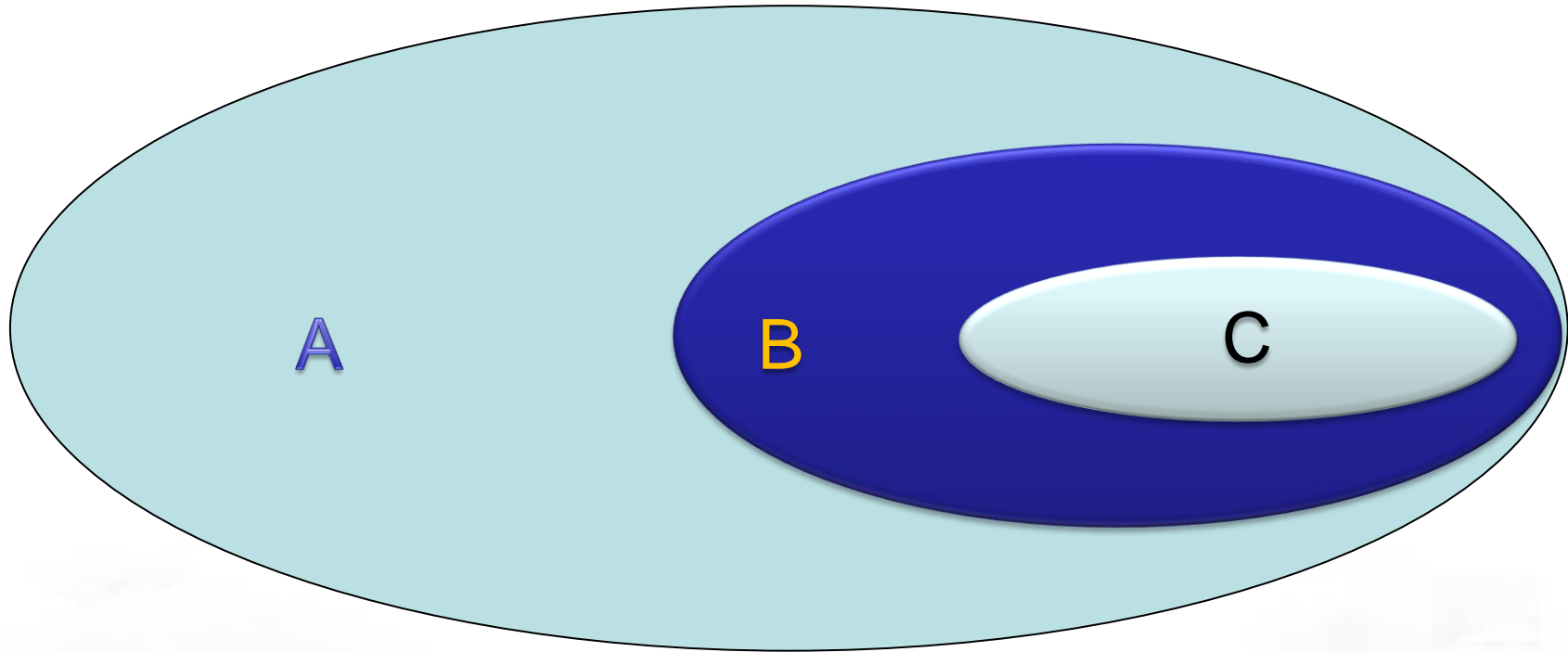
# More than 60 overseas offices & sub-companies in 30 countries



# CHINA AEROSPACE – THE CUTTING EDGE



# AVIC INTERNATIONAL BJ—— ——shareholding relationship



A: AVIC INTERNATIONAL

B: AVIC INTERNATIONAL BJ

C: SHIPYARDS —— Taizhou AVIC Shipbuilding  
—— AVIC Weihai Shipyard





# Our Services

Welcome to AVIC International Beijing, welcome to AVIC Shipbuilding



中国航空技术北京有限公司



## CATIC Weihai Shipyard

山东省威海船厂整体搬迁扩建工程



**Weihai Shipyard is designed to build the ship up to 200,000DWT**

**Shipyard area:** 1,400,000 m<sup>2</sup>

**Dry dock:** 369 m x 50 m

276 m x 50 m

**Cranes:** 800t x 1

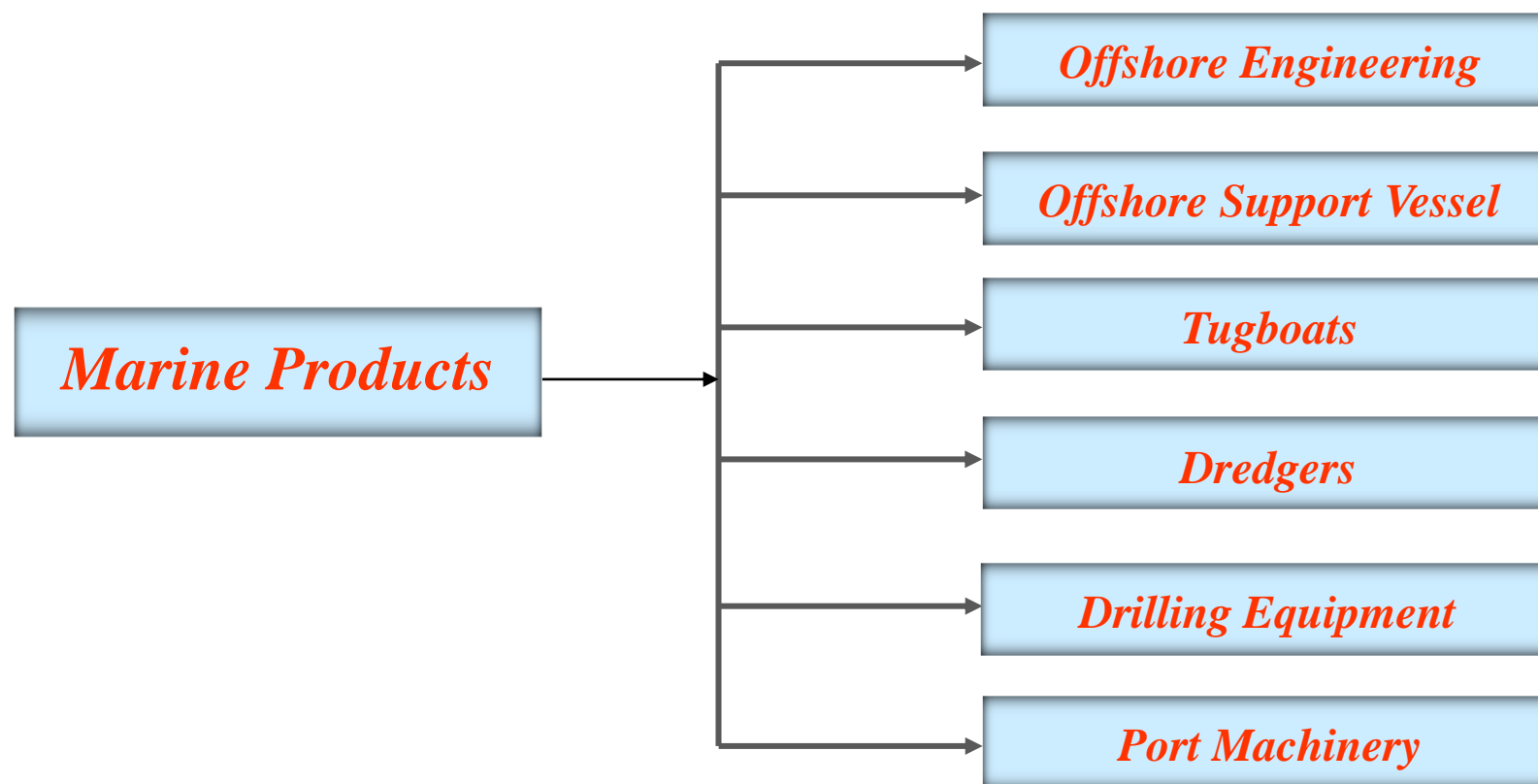
400t x 1

**Quay length:** 1844 m





## *Our Products*





## Offshore Engineering



### **Project Characteristics:**

- 1) Detail design and engineering for shipyard construction;
- 2) 400 ft maximum operation water depth;
- 3) 30,000 ft maximum drilling depth;
- 4) 3700 tons maximum VDL in drilling condition;





## Offshore Engineering



**AVIC provides sourcing and procurement for both Chinese and International products and services, such as :**

- 1) Topside equipment;
- 2) Drilling and production equipment;
- 3) Propulsion, positioning, mooring equipment;
- 4) Subsea, flowline, and pipeline equipment;
- 5) Material and equipment handling systems;
- 6) Existing drilling rigs and vessels for sale;
- 7) Terminal equipment;
- 8) Specialized engineering and construction services;



## Offshore Engineering



### Project Characteristics:

- 1) Oil storage, 300,000 ton;
- 2) Water depth, 20m;





## Offshore Support Vessel



1	2	3
4	5	

1	AHTS
2	Offshore drilling rig
3	FSO
4	FPSO
5	Pipe laying Vessel





## Offshore Patrol Vessel



### **14000KW Marine Patrol Vessel**

L.O.A.: 114.40m

L.W.L.: 101.65m

Breadth: 13.80m

Design Draft: 4.60 m

Speed: 22.00 KN

Tonnage: 3383ton

Main Engine: 2 x 6000KW

Gensets: 3 x 800kw diesel driven

Accommodation: 56 men



## Supply Vessel



### **76M Support / Maintenance PRINCIPAL DIMENSIONS**

L.O.A.: 76.00m

L.W.L.: 71.50m

Breadth: 20.00m

Depth: 6.10m

Draft: 4.50 m

Speed: 12.00 KN

Tonnage: 2996ton

Main Engine: 2 x 2575BHP

Propulsion: Rudder Propeller

Shaft Generator: 2 x 1600kw

Mooring System: 4 point mooring winch,  
4 x 40 tonnes @ 10m/min Tugger

Winch: 2 x 10 tonnes

Accommodation: 138 men. DP-II





## Supply Vessel



### 89M Multi-purpose Supply Vessel PRINCIPAL DIMENSIONS

L.O.A.: 88.80m

L.B.P.: 82.00m

Breadth: 19.00m

Depth: 8.00m

Max. Draught: 6.60 m

Speed: 15.50 KN

Deadweight: 4000ton

Main Diesel Generators: 5 X 1750ekw

Propellers: 2 main azimuth propeller,  
2 × 2500kW × 800rpm

Drives: 2 × 2500kW × 800rpm motor,  
ABB frequency converters 690V, 3 passive  
roll reduction tanks

Accommodation: 25 men. DP-II





## Anchor Handling Tug/Supply Vessel



### 74.5M AHTSV

#### PRINCIPAL DIMENSIONS

L.O.A.: 74.50m

Breadth Moulded: 17.20m

Depth to Main Deck: 8.00m

Maximum Draught: 7.20 m

Tonnage: 2750ton

Speed: 18.00 KN

Main Engine: 2 x 6000KW

Propulsion: 2 x CPP in nozzle

Shaft Generator: 2 x 2000ekw

Towing / Anchor: 680ton

Tugger Winches: 2 x Norminal Pull, 20ton

Accommodation: 42 men

DP-II



## **Multi-functional Azimuth Thruster Tug**



**1470KW TUG**



**2400KW Z-DRIVE TUG**



**3300KW TUG**



**3528KW ICE-BROKE TUG**



**4400KW STERN TUG**



**FI-FI TUG**





## Ocean Salvage Tug



## 8000KW OCEAN SALVAGE TUGBOAT

### PRINCIPAL DIMENSIONS

L.O.A.: 98.0 m

Breadth MLD: 15.2m

Depth MLD: 7.6 m

Design Draft: 5.6 m

Scantling Draft: 6.0m

Speed: 19.7 KN

Deadweight: 4400T





## Tug



### **TUG WITH VOITH PROPELLER PRINCIPAL DIMENSIONS**

L.O.A.: 30.20 m

Breadth MLD: 11.20m

Depth MLD: 4.20m

Draught: 5.00m

Speed: 12.00 KN

Autonomy: Min. 8 days

Power: 2\*2610HP

Static bollard pull: 52T



## Dredger



### **10000m<sup>3</sup> Trailing Suction Hopper Dredger**

L.O.A.: 125.60 m

Breadth MLD: 25.32m

Depth MLD: 10.00m

Dredging draught: 8.50m

Max. dredging depth: 32.00m

Deadweight: 14835t

Speed: 15.0 KN

Dia.of suction/discharge pipe: 1000mm

Main Engine: 600rpm × 8700kW × 2

Main generator: 2500kW × 2

Hopper Capacity: 10000m<sup>3</sup>





## *Drilling Equipment*



We can manufacture and provide the Offshore Drilling Modular according to client's demands.





## Drilling Equipment



1 | 2  
3



We can supply drilling rigs in various models for drilling land (desert, mountain, marshland, shoal and other terrains) oil wells, such as mechanical rig, DC rig, AC VF rig, electromechanical rig, and etc. All products are with ISO9001:2000 certificates and API certificates.



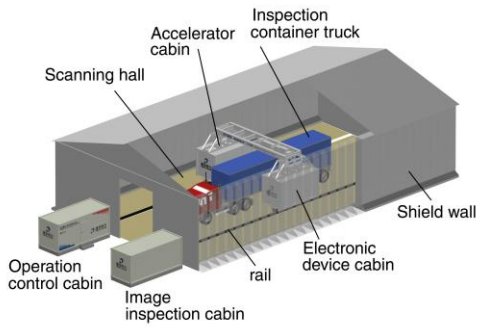
# Port Machinery



1	2	3
4	5	



1	Post-panamax Container Crane
2	Container Cranes Loaded
3	Rubber-tyred Gantry Crane
4	Bulk Material Ship Loader
5	Container/Vehicle Inspection System





# Focused Products

Types	AHTS	PSV	Z- DRIVE TUG	SEA-GOING SALVAGE VESSEL	CUTTER SUCTION DREDGER	TRAILING SUCTION DREDGER
LENGTH O.A	69.90m	75.00m	31.00m	98.00m	104.4m	134.40m
BREADTH	16.60m	17.50m	11.00m	15.20m	19.60m	25.32m
DEPTH	7.20m	7.60m	4.50m	7.60m	5.20m	10.00m
DESIGN DRAUGHT	4.50m	6.00m	3.20m	5.60m	2.90m	7.50m
SCANTLING DRAUGHT	5.90m	6.40m	3.50m	6.00m	3.75m	8.50m
DEADWEIGHT	2,400t	3,000t	700t	4,400t	4,092t	14,835t
MAIN ENGINE	8200 BHP	5000 BHP	4,400 BHP	9,000KW	14,176KW	26,880KW
SERVICE SPEED	13.00 knots	13.50 knots	12.00 knots	19.7 knots	---	15.00 knots
ENDURANCE	30 days	30days	8 days	10,000 n.mile	---	9,000 n.mile
BOLLARD PULL	100t	---	50t	---	---	---
CAPACITY	---	---	---	---	3500M3/h	10000M3



# AVIC - INTERPHARM PARTNERSHIP:

Since 1986



AGENCIES:



---

TO DEVELOP & SUPPLY TECHNOLOGY GLOBALLY

---

**PETER J. SHARPER**

Managing Director

夏博

Interpharm Technologies Ltd.  
St. George's House  
16 Atkins Close  
Bradwell  
Milton Keynes  
Buckinghamshire  
MK13 9HT  
United Kingdom

Tel: +44 1908 225959  
Mob: +44 7951 555356

E-Mail: [interpharmuk@gmail.com](mailto:interpharmuk@gmail.com)  
[petersharper@aol.com](mailto:petersharper@aol.com)