

# TAIS SHIPYARDS



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**HIGH-TECH, INNOVATIVE  
NAVAL SOLUTIONS AND  
GLOBAL EXCELLENCE**





# **EXPERT AND INNOVATIVE SOLUTIONS IN NAVAL SHIPBUILDING**

TAIS is established by the owners of the leading shipyards of Turkiye with the objective to offer expert and innovative solutions in naval ship building for demanding customers all over the world.

Located in the core of Turkiye's shipbuilding industry in Tuzla and Yalova, TAIS partners have acquired a leading position by using the best know-how and state of art technologies and aspire to be among the world leaders in all segments that demand the advanced navy solutions.

The group has completed a series of projects for Turkish Navy which has achieved a contemporary, powerful and modern force structure.

Besides shipbuilding, TAIS offers a total solution of customer support and after-sales services at the start-up, deployment phases and through her entire life cycle.

**LET TAIS BE THE PARTNER FOR  
YOUR SUCCESS AND POWER!**



# TURKISH NAVAL SHIPBUILDING KNOWLEDGE AND EXPERTISE WORKING TOGETHER



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# TAIS OFFERS YOU A COMPLETE SET OF SOLUTIONS, KNOW-HOW AND EXPERTISE

## CONTRACTOR SHIP PROGRAM MANAGEMENT

- Program Management Plans And Schedules
- Risk Management
- Configuration Management
- Test and Evaluation Master Plan
- Contract Management
- Subcontractor Control
- Claim Management
- Reviews and Reporting
- Quality Assurance
- Test and Trials Management and Evaluation
- Local Production Management
- Material Package Management
- Definition of Procurement Needs
- Handling of Government Furnished Equipment (GFE)

## INTEGRATED LOGISTIC SUPPORT

- Logistic Engineering
- Provisioning
- Maintenance
- Technical Documentation and Data
- ILS Management System
- Training

## LIFE CYCLE /IN-SERVICE-SUPPORT (LCS/ISS) AND AFTER SALES SERVICES

- Change and Obsolescence Management
- Repair and Maintenance
- Documentation Updates
- Archives
- Follow-on Training
- Spares Procurement



## **SHIPYARD CONSULTING**

- Resources Planning
- Manufacturing Layouts
- Investments
- Shipyard Layouts
- Supporting the Investment Process of Equipment and Shipbuilding Related Manufacturing Facilities
- Supplying of Shipbuilding and Ship Related Equipment and Respective Training
- Assisting the Shipyard in Operations & Equipment

## **TECHNOLOGY TRANSFER LOCAL PRODUCTION**

- Full Design and Construction Knowledge Transfer to the Client Shipyard
- Material Packages
- On-the-job Training in Turkiye and at the Client Shipyard
- Technical Assistance
- Technical Support
- Provision of Production Plans

## **DESIGN AND SYSTEM ENGINEERING**

- System Engineering Management Plan
- Handling and Tracing of Customer Requirements
- Work/Product/Document Breakdown Structures
- Work Packages
- System Integration
- Interface Management
- Functional Design
- Detailed Design
- Design-to-cost
- Scenarios
- Design Synthesis
- Verification Concepts
- Engineering Schedules

**SHIPYARDS TOTAL AREA : 415.659 m<sup>2</sup>**

**4 x SLIPWAYS IN DIFFERENT SIZES**

Maximum Slipway Capacity: 250 m (L)\*41.2m (B)

Building of up to 120.000 DWT

Maksimum Lifting Capacity on Slipways : 400 Tons

**3 x FLOATING DOCKS**

Floating Dock 1 : 285m x 47 m, 40.000 TLC

Floating Dock 2: 140m x 38.4 m, 7.000 TLC

Floating Dock 3: 105m x 28,5 m, 4.000 TLC

**2 x GRAVING DOCKS**

Graving Dock 1 : 310m x 50m

(1.000 t single block lifting and 500t block flip-over capacity)

Graving Dock 2 : 240m x 42m X 9m

(Up to post panamax size vessel capacity)

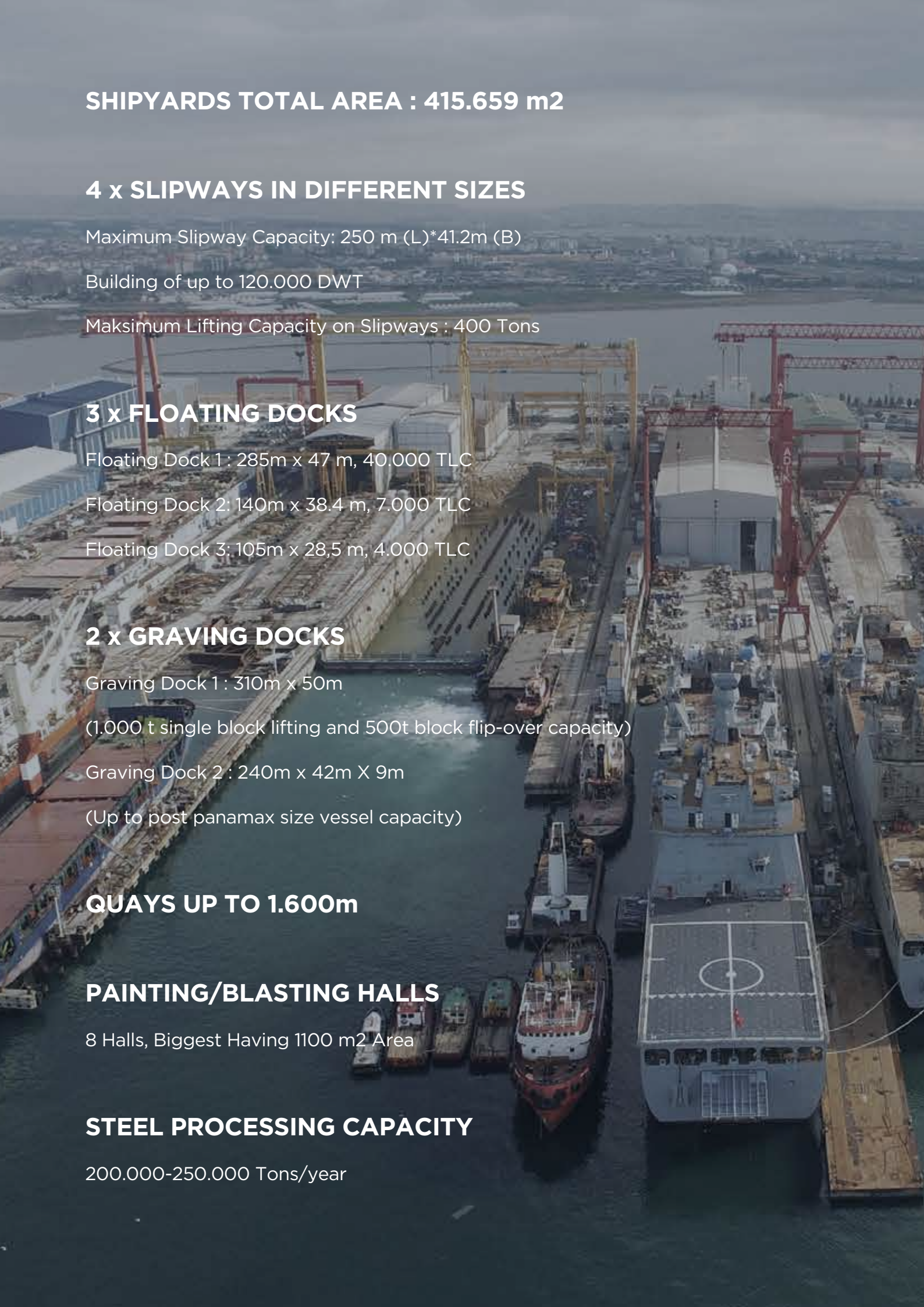
**QUAYS UP TO 1.600m**

**PAINTING/BLASTING HALLS**

8 Halls, Biggest Having 1100 m<sup>2</sup> Area

**STEEL PROCESSING CAPACITY**

200.000-250.000 Tons/year



## NUMBER OF PERSONNEL

Core Personnel: >2.000, Including Admin & Engineers

Retired Naval Officers, Technicians and Workers

Subcontractor Personnel: >13.000

## QUALITY CERTIFICATES

- ISO 14001-2004 Environmental Management System Standard
- OHSAS 18001:2007 Occupational Health & Safety Management System Standard
- EN 1090-2 EXC4
- DIN 1090-2-EXC4
- DIN EN ISO 3834-2
- Facility Security Clearance Certificate from Ministry of Defense
- National Plant Security Clearance Certificate and NATO Security Clearance Certificate
- Turkish MoND Production Permission Certificate
- Turkish MoND Facility Security Clearance Certificate

# NAVAL PRODUCTS



- Force Projection
- BORA Class
- Patrol Vessels
- Fast Combatants
- Special Vessels
- Amphibious Ships
- Replenishment Ships
- Floating Dock



# NAVAL PRODUCTS



## LHD-230

Landing Helicopter Dock  
L:230.8m Δ: 27.000t

m 50 100 150 200 250



## FRT-200

Fleet Replenishment Tanker  
L:199m Δ: 22.000t

m 50 100 150 200 250



## FD-170

Floating Dock  
L:170m

m 50 100 150 200 250



## LPHD

Landing Platform Helicopter Dock  
L:161m Δ: 10.000t

m 50 100 150 200 250



## FD-160

Floating Dock  
L:160m

m 50 100 150 200 250



## LPD-150

Landing Platform Dock  
L:153m Δ: 9.500t

m 50 100 150 200 250



## BORA FRIGATE-140

Frigate  
L:140m Δ: 6.500t

m 50 100 150 200 250



## LST-140

Landing Ship Tank  
L:138.8m Δ: 7.550t

m 50 100 150 200 250



## LST-120

Landing Ship Tank  
L:120m Δ: 6.000t

m 50 100 150 200 250



## BORA FRIGATE-115

Frigate  
L:115m Δ: 3.000t

m 50 100 150 200 250



## BORA FRIGATE-105

Frigate  
L:105m Δ: 2.500t

m 50 100 150 200 250



## BORA CORVETTE-100

Corvette  
L:100m Δ: 2.400t

m 50 100 150 200 250



## LST-100

Landing Ship Tank  
L:100m Δ: 3.800t

m 50 100 150 200 250



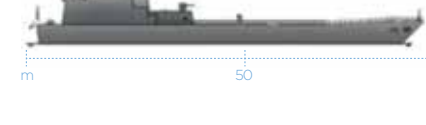
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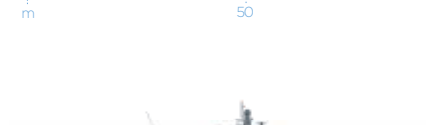
m 50 100



m 50 100



m 50 100



m 50 100



m 50 100



m 50 100



m 50 100



m 50 100



m 50 100



m 50 100



m 50 100

### MPSRS-95

Multi Purpose Support & Rescue Ship  
L:95m Δ: 4.400t



m 50 100

### KAAN-77

Fast Patrol Boat  
L:88.4m Δ: 1.100t



m 50 60

### FAB-56

Fast Attack Boat  
L:56.2m Δ: 400t

### BORA OPV-95

Offshore Patrol Vessel  
L:95m Δ: 2.000t



m 50 100

### OPV-75

Offshore Patrol Vessel  
L:74.4m Δ: 1.400t



m 50 60

### LCT-53

Landing Craft Tank  
L:53m Δ: 385t

### LSM-90

Landing Ship Medium  
L:90m Δ: 1.830t



m 50 100

### MPT-70

Multi Purpose Tug  
L:70m Δ: 2.600t



m 50 60

### ERDSB-52

Emergency Rescue & Diver Support Boat  
L:52m Δ: 800t

### OPV-90

Offshore Patrol Vessel  
L:90m Δ: 1.900t



m 50 100

### FACM-70

Fast Attack Craft Missiled  
L:70m Δ: 850t



m 50

### FAC-45

Fast Attack Craft  
L:45.75m Δ: 300t

### CTS-90

Cadet Training Ship  
L:89.6m Δ: 1.950t



m 50 100

### FACM-70

Fast Attack Craft Missiled  
L:70m Δ: 850t



m 50

### RPV-42

Riverine Patrol Vessel  
L:42m Δ: 250t

### ERV-90

Emergency Response & Rescue Vessel  
L:87.8m Δ: 6.400t



m 50 100

### LCT-70

Landing Craft Tank  
L:70m Δ: 1.050t



m 50

### FAC-40

Fast Attack Craft  
L:39.9m Δ: 350t

### BORA OPV-85

Offshore Patrol Vessel  
L:85m Δ: 1.500t



m 50 100

### FPB-68

Fast Patrol Boat  
L:67,7m Δ: 830t



m 50

### LCM-40

Landing Craft Mechanised  
L:40m Δ: 294t

### LCT-80

Landing Craft Tank  
L:79.8m Δ: 1.156t



m 50 100

### CG-68

Coast Guard  
L:68m Δ: 1.255t



m 50

### ERDTB-35

Emergency Response & Diver Training Boat  
L:35.5m Δ: 280t

### BORA OPV-75

Offshore Patrol Vessel  
L:75m Δ: 1.320t



m 50 100

### GMFPB-67

Guided Missile Fast Patrol Boat  
L:66.9m Δ: 800t



m 50

### FAC-33

Fast Attack Craft  
L:33m Δ: 140t

### BORA OPV-75

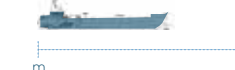
Offshore Patrol Vessel  
L:75m Δ: 1.320t



m 50 100

### LPC-65

Large Patrol Craft  
L:65m Δ: 660t



m 50

### LCM-30

Landing Craft Mechanised  
L:30m Δ: 139t

### BORA OPV-75

Offshore Patrol Vessel  
L:75m Δ: 1.320t



m 50 100

### GMFPB-60

Guided Missile Fast Patrol Boat  
L:60.85m Δ: 425t



m 30

### NOTC-28

Naval Offshore Troop Carrier  
L:28m Δ: 105t

### BORA OPV-75

Offshore Patrol Vessel  
L:75m Δ: 1.320t



m 50 100

### FPB-57

Fast Patrol Boat  
L:56.7m Δ: 420t



m 30

### LCM-26

Landing Craft Mechanised  
L:25.9m Δ: 150t

### BORA OPV-75

Offshore Patrol Vessel  
L:75m Δ: 1.320t



m 50 100

### CPV-56

Coastal Patrol Vessel  
L:56m Δ: 383t



m 30

### LCVP-16

Landing Craft Vehicle Personnel  
L:15.7m Δ: 23t

### BORA OPV-75

Offshore Patrol Vessel  
L:75m Δ: 1.320t



m 50 100

### USV

Unmanned Surface Vehicle (MARLIN)  
L:15m Δ: 21t



m 30



# **LHD-230**

## **Landing Helicopter Dock**

## Missions

### Primary Missions

- Amphibious assault ship
- Force projection
- Presence in geographically distant zones
- Aircraft carrier
- Logistic support for forces deployed on land or at sea

### Secondary Missions

- Humanitarian aid operations
- Non-combatant evacuation operations
- Commanding joint operations

## General Specifications

### General Information

<b>LOA</b>	: 230,8 m
<b>Beam</b>	: 32 m
<b>Draft</b>	: 6.8 m
<b>Height</b>	: 58 m
<b>Displacement</b>	: 27.000 tons

### Performance

<b>Speed</b>	: ~20 / 14 kts
<b>Range</b>	: 9.000 NM
<b>Endurance</b>	: 50 days

### Accommodation

<b>Crew</b>	: 348
<b>Flight Personnel</b>	: 56
<b>HRF Personnel</b>	: 200
<b>Medical Personnel</b>	: 50
<b>Amphibious Personnel</b>	: 700

## Systems Configuration

### Propulsion System

#### Propulsion

- 2 x 11 MW Siemens eSIPOD
- 2 x 1500 KW Bow Truster

#### GENSET

- 5 x 8000 KW Diesel GENSET

### Navigation Systems

- 2 x LPI RADAR
- 2 x Navigation Radar
- Magnetic Compass
- Gyro Compass
- WECDIS
- WAIS
- Digital Plotting Table
- GPS
- Echosounder
- EM Log

### Combat Systems

#### Weapons

- 5x25mm ASELSAN STOP Naval Gun System
- 2 x Phalanx CIWS
- RAM G/M System (fitted-for)
- Decoy Launching System

#### Sensors

- ADVENT CMS with Amphibious and Joint Operations Capability
- Link 11/16/22/JRE/VMF
- 3D Search Radar
- Aircraft Detection and Control Radar
- Precision Approach Radar
- Diver Detection Sonar
- IFF System
- Laser Warning System (LWS)
- Infrared Search and Track (IRST)
- 2 x Electro Optic Search System
- TACAN
- Electronic Warfare Suite with R-ESM & R-ECM
- Torpedo Countermeasure System (TCMS)
- Meteorological Measurement System

#### Communication

- Integrated Communication System
- HF / V/ UHF TxRx
- X / Ku Band SATCOM



# FRIGATE-140

## BORA Multi Mission



### Missions

- Intelligence, Surveillance and Reconnaissance (ISR) Operations
- Anti-Surface Warfare, Anti-Air-Warfare and Anti-Submarine Warfare
- Maritime Security Operation (Anti-piracy, anti-terrorism, anti-smuggling, anti-human trafficking and anti-drug operations)
- Conducting border patrols, territorial defense and maritime operations up to Exclusive Economic Zone (EEZ)
- Capable of helicopter operations and can accommodate any heavy helicopter at the helideck
- Two hangars, for heavy helicopters and/or Unmanned Aerial Vehicle for day and night helicopter operations
- Reduced radar, infrared and acoustic signatures (stealth technology) as well as magnetic signature are considered as design goals

### General Specifications

#### General Information

**LOA** : 140 m  
**Beam** : 18.95 m  
**Draft** : 5.50 m  
**Displacement** : 6.500 tons

#### Performance

**Speed** : 29+/18 kts  
**Range** : 5.000 NM  
**Endurance** : 21 days

#### Accommodation

**Crew** : 160

### Systems Configuration

#### Propulsion System

##### Propulsion

CODAG Configuration with CPP  
 2 Diesel Engines and 2 Gas Turbine

##### Navigation Systems

Navigation Radars (LPI)  
 INS/GPS, W-ECDIS, (D)GPS,  
 Echo Sounder, EM Log,  
 Ship Data Distribution System,

#### Combat Systems

##### Weapons

76 mm Main Gun  
 35 mm CIWS (GÖKDENİZ)  
 2 x 25 mm (STOP RsMG)  
 2 x 12.7 mm (STAMP-2 RsMG)  
 Decoy Launching System  
 4 X 4 SSM (ATMACA)  
 1x16 VLS (SAM)  
 Torpedo Launching System  
 Torpedo Decoy

##### Sensors

3D Search Radar, E/O Sensors,  
 Fire Control Radars, Illumination  
 Radars, R-ESM, R-ECM,  
 Hull Mounted Sonar, Torpedo  
 Countermeasure System (TCMS),  
 TA Sonar, Laser Warning System  
 Meteorological Sensors

##### Communication

HF, UHF and VHF Military  
 Communications, SATCOM,  
 Military Link System

# FRIGATE-115 BORA



## Missions

- Intelligence, Surveillance and Reconnaissance (ISR) Operations
- Anti-Surface Warfare, Anti-Air-Warfare and Anti-Submarine Warfare
- Maritime Security Operation (Anti-piracy, anti-terrorism, anti-smuggling, anti-human trafficking and anti-drug operations)
- Conducting border patrols, territorial defense and maritime operations up to Exclusive Economic Zone (EEZ)
- Capable of helicopter operations and can accommodate any heavy helicopter at the helideck
- Two hangars, one for heavy helicopters and one for Unmanned Aerial Vehicle

## General Specifications

### General Information

<b>LOA</b>	: 115 m
<b>Beam</b>	: 14.50 m
<b>Draft</b>	: 4.30 m
<b>Displacement</b>	: 3.000 tons

### Performance

<b>Speed</b>	: 29+/15 Kts
<b>Range</b>	: 4.000 NM
<b>Endurance</b>	: 21 days

### Accommodation

<b>Crew</b>	: 130
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## Systems Configuration

### Propulsion System

#### Propulsion

CODAG Configuration  
with CPP  
2 Diesel Engines and  
1 Gas Turbine

#### Navigation Systems

Navigation Radars (LPI)  
INS/GPS, W-ECDIS, (D)GPS,  
Echo Sounder, EM Log,  
Ship Data Distribution System

### Combat Systems

#### Weapons

76 mm Main Gun  
35 mm CIWS (GÖKDENİZ)  
2 x 25 mm (STOP RsMG)  
2 x 12.7 mm (STAMP-2 RsMG)  
Decoy Launching System  
4X4 SSM (ATMACA)  
1 x 16 VLS (SAM)  
Torpedo Launching System  
Torpedo Decoy

#### Sensors

3D Search Radar, E/O Sensors,  
F/C Radar, R-ESM,  
R-ECM, Laser Warning System,  
Illumination Radars,  
Meteorological Sensors  
Torpedo Countermeasure System  
(TCMS), Hull Mounted Sonar

#### Communication

HF, UHF and VHF Military  
Communications, SATCOM,  
Military Link System



# FRIGATE-105 BORA



## Missions

- Intelligence, Surveillance and Reconnaissance (ISR) Operations
- Anti-Surface Warfare, Anti-Air-Warfare and Anti-Submarine Warfare
- Maritime Security Operation (Anti-piracy, anti-terrorism, anti-smuggling, anti-human trafficking and anti-drug operations)
- Conducting border patrols, territorial defense and maritime operations up to Exclusive Economic Zone (EEZ)
- Capable of helicopter operations and can accommodate any heavy helicopter at the helideck
- Two hangars, one for heavy helicopters and one for Unmanned Aerial Vehicle

## General Specifications

General Information		Performance		Accommodation	
<b>LOA</b>	: 105 m	<b>Speed</b>	: 29 kts	<b>Crew</b>	: 115
<b>Beam</b>	: 13.5 m	<b>Range</b>	: 3.500+ NM		
<b>Draft</b>	: 4.00 m	<b>Endurance</b>	: 15 days		
<b>Displacement</b>	: 2.500 tons				

## Systems Configuration

### Propulsion System

**Propulsion**

CODAG Configuration with CPP  
2 Diesel Engines and 1 Gas Turbine

### Navigation Systems

Navigation Radars (LPI)  
INS/GPS, W-ECDIS, (D)GPS,  
Echo Sounder, EM Log,  
Ship Data Distribution System

### Combat Systems

**Weapons**

76 mm Main Gun  
35 mm CIWS (GÖKDENİZ)  
2 x 12.7 mm (STAMP-2 RsMG)  
Decoy Launching System  
2X4 SSM (ATMACA)  
1 x 8 VLS (SAM)  
Torpedo Launching System  
Torpedo Decoy

### Sensors

3D Search Radar, E/O Sensors,  
Fire Control Radars, Illumination  
Radars, R-ESM, R-ECM,  
Meteorological Sensors,  
Hull Mounted Sonar, Torpedo  
Countermeasure System (TCMS),  
Laser Warning System

### Communication

HF, UHF and VHF Military  
Communications, SATCOM,  
Military Link System

# CORVETTE-100 BORA



## Missions

- Intelligence, Surveillance and Reconnaissance (ISR) Operations
- Anti-Surface Warfare and Anti-Air-Warfare and Anti-Submarine Warfare
- Maritime Security Operation (Anti-piracy, anti-terrorism, anti-smuggling, anti-human trafficking and anti-drug operations)
- Conducting border patrols, territorial defense and maritime operations up to Exclusive Economic Zone (EEZ)
- Capable of helicopter operations and can accommodate any heavy helicopter at the helideck
- Two hangars, one for heavy helicopters and one for Unmanned Aerial Vehicle

## General Specifications

### General Information

<b>LOA</b>	: 100 m
<b>Beam</b>	: 13.40 m
<b>Draft</b>	: 3.90 m
<b>Displacement</b>	: 2.400 tons

### Performance

<b>Speed</b>	: 29+/15 Kts
<b>Range</b>	: 3.500 NM
<b>Endurance</b>	: 15 days

### Accommodation

<b>Crew</b>	: 115
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## Systems Configuration

### Propulsion System

#### Propulsion

CODAG Configuration with CPP  
2 Diesel Engines and 1 Gas Turbine

#### Navigation Systems

Navigation Radars (LPI)  
Fiber Optic INS, WECDIS,  
DGPS, Echo Sounder, EM Log,  
Ship Data Distribution System,

### Combat Systems

#### Weapons

76 mm Main Gun  
35 mm CIWS (GÖKDENİZ)  
2 x 25 mm (STOP RsMG)  
Decoy Launching System  
2 x 4 SSM (ATMACA)  
Torpedo Launching System  
Torpedo Decoy

#### Sensors

3D Search Radar, E/O Sensors,  
F/C Radar, R-ESM, R-ECM,  
Meteorological Sensors,  
Laser Warning System,  
Torpedo Countermeasure  
System (TCMS),  
Hull Mounted Sonar

#### Communication

HF, UHF and VHF Military  
Communications, SATCOM,  
Military Link System



# OPV-95 Multi Mission BORA



## Missions

- Intelligence, Surveillance and Reconnaissance (ISR) Operations
- Operating in heavy sea conditions and conducting border patrols, territorial defense and maritime operations up to Exclusive Economic Zone (EEZ)
- Maritime Security Operation (Anti-piracy, anti-terrorism, anti-smuggling, anti-human trafficking, anti-drug operations and pollution control capability)
- Capable of helicopter operations and can accommodate any heavy helicopter at the helideck
- Two hangars, one for heavy helicopters and one for Unmanned Aerial Vehicle

## General Specifications

### General Information

**LOA** : 95 m  
**Beam** : 13 m  
**Draft** : 3.85 m  
**Displacement** : 2.000 tons

### Performance

**Speed** : 24+/15 kts  
**Range** : 3.500+ NM  
**Endurance** : 15 days

### Accommodation

**Crew** : 73

## Systems Configuration

### Propulsion System

#### Propulsion

CODAG Configuration with CPP  
 2 x Marine Diesel Engines

#### Navigation Systems

Navigation Radars (LPI)  
 INS/GPS, W-ECDIS, (D)GPS,  
 Echo Sounder, EM Log,  
 Ship Data Distribution System

### Combat Systems

#### Weapons

30 mm Main Gun  
 SAM (SUNGUR)  
 2 x 25 mm (STOP RsMG)  
 2 x 12.7 mm (STAMP-2 RsMG)  
 Decoy Launching System

#### Sensors

3D Surveillance Radar,  
 Fire Control Radar with E/O,  
 EOD, IFF, WAIS, R-ESM  
 Meteorological Sensors

#### Communication

HF, UHF and VHF Military Communications, SATCOM, Military Link System



# OPV-95 Heavy Duty BORA



## Missions

- Intelligence, Surveillance and Reconnaissance (ISR) Operations
- Operating in heavy sea conditions and conducting border patrols, territorial defense and maritime operations up to Exclusive Economic Zone (EEZ)
- Maritime Security Operation (Anti-piracy, anti-terrorism, anti-smuggling, anti-human trafficking, anti-drug operations and pollution control capability)
- Anti-Surface Warfare and Anti-Air-Warfare
- Capable of helicopter operations and can accommodate any heavy helicopter at the helideck
- Two hangars, one for heavy helicopters and one for Unmanned Aerial Vehicle

## General Specifications

### General Information

<b>LOA</b>	: 95 m
<b>Beam</b>	: 13 m
<b>Draft</b>	: 3.85 m
<b>Displacement</b>	: 2.000 tons

### Performance

<b>Speed</b>	: 24+/15 kts
<b>Range</b>	: 3.500+ NM
<b>Endurance</b>	: 15 days

### Accommodation

<b>Crew</b>	: 73
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## Systems Configuration

### Propulsion System

#### Propulsion

CODAG Configuration  
with CPP  
2 x Marine Diesel Engines

#### Navigation Systems

Navigation Radars (LPI)  
INS/GPS, W-ECDIS, (D)GPS,  
Echo Sounder, EM Log,  
Ship Data Distribution System

### Combat Systems

#### Weapons

76 mm Main Gun  
35 mm CIWS (GÖKDENİZ)  
2 x 25 mm (STOP RsMG)  
2 x 12.7 mm (STAMP-2 RsMG)  
Decoy Launching System

#### Sensors

3D Surveillance Radar,  
Fire Control Radar with E/O,  
EOD, IFF, WAIS, R-ESM  
Meteorological Sensors

#### Communication

HF, UHF and VHF Military  
Communications, SATCOM,  
Military Link System



# OPV-85 Multi Mission BORA



## Missions

- Intelligence, Surveillance and Reconnaissance (ISR) Operations
- Operating in heavy sea conditions and conducting border patrols, territorial defense and maritime operations up to Exclusive Economic Zone (EEZ)
- Maritime Security Operation (Anti-piracy, anti-terrorism, anti-smuggling, anti-human trafficking, anti-drug operations and pollution control capability)
- Control movement of mission modules for safe and efficient launch and handling
- Capable of helicopter operations and can accommodate any heavy helicopter at the helideck

## General Specifications

<b>General Information</b>	<b>Performance</b>	<b>Accommodation</b>
<b>LOA</b> : 85 m	<b>Speed</b> : 24/15 kts	<b>Crew</b> : 73
<b>Beam</b> : 12.5 m	<b>Range</b> : 3.500+ NM	
<b>Draft</b> : 3.40 m	<b>Endurance</b> : 15 days	
<b>Displacement</b> : 1.500 tons		

## Systems Configuration

<b>Propulsion System</b>	<b>Combat Systems</b>	<b>Sensors</b>
<b>Propulsion</b> : CODAG Configuration with CPP 2 x Marine Diesel Engines	<b>Weapons</b> : 30 mm Main Gun 2 x 25 mm (STOP RsMG) 2 x 12.7 mm (STAMP-2 RsMG) Decoy Launching System	3D Surveillance Radar, Fire Control Radar with E/O, EOD, IFF, WAIS, R-ESM, Meterological System
<b>Navigation Systems</b> : Navigation Radars (LPI) DGPS, Echosounder, EM Log, Ship Data Distribution System		<b>Communication:</b> HF, UHF and VHF, SATCOM, Military Link System



# OPV-85 Heavy Duty BORA



## Missions

- Intelligence, Surveillance and Reconnaissance (ISR) Operations
- Operating in heavy sea conditions and conducting border patrols, territorial defense and maritime operations up to Exclusive Economic Zone (EEZ)
- Maritime Security Operation (Anti-piracy, anti-terrorism, anti-smuggling, anti-human trafficking, anti-drug operations and pollution control capability)
- Control movement of mission modules for safe and efficient launch and handling
- Capable of helicopter operations and can accommodate any heavy helicopter at the helideck

## General Specifications

### General Information

<b>LOA</b>	: 85 m
<b>Beam</b>	: 12.5 m
<b>Draft</b>	: 3.40 m
<b>Displacement</b>	: 1.500 tons

### Performance

<b>Speed</b>	: 24/15 kts
<b>Range</b>	: 3.500+ NM
<b>Endurance</b>	: 15 days

### Accommodation

<b>Crew</b>	: 73
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## Systems Configuration

### Propulsion System

<b>Propulsion</b>	CODAG Configuration with CPP 2 x Marine Diesel Engines
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### Navigation Systems

Navigation Radars (LPI)  
DGPS, Echosounder, EM Log,  
Ship Data Distribution System

### Combat Systems

#### Weapons

76 mm Main Gun  
2 x 4 SSM (ATMACA)  
1 x 4 SAM (SUNGUR)  
2 x 12.7 mm (Rsmg STAMP-2)  
Decoy Launching System

### Sensors

3D Surveillance Radar,  
Fire Control Radar with E/O,  
EOD, IFF, WAIS, R-ESM,  
Meterological System

### Communication

HF, UHF and VHF, SATCOM,  
Military Link System



# OPV-75 Multi Mission BORA



## Missions

- Operating in tropical environment and conducting border patrols, territorial defense and maritime operations up to Exclusive Economic Zone (EEZ)
- Maritime Security Operation (Anti-piracy, anti-terrorism, anti-smuggling, anti-human trafficking, anti-drug operations and pollution control capability)
- Cost effective, robust, easy to operate and maintain
- Capable of helicopter operations and can accommodate any heavy helicopter at the helideck

## General Specifications

### General Information

**LOA** : 75 m  
**Beam** : 12 m  
**Draft** : 3.3 m  
**Displacement** : 1,320 tons

### Performance

**Speed** : 24/15 kts  
**Range** : 3,000+ NM  
**Endurance** : 15 days

### Accommodation

**Crew** : 53

## Systems Configuration

### Propulsion System

#### Propulsion

CODAD Configuration with CPP  
 2 x Marine Diesel Engines

#### Navigation Systems

Navigation Radar (LPI)  
 DGPS, Echosounder, EM Log,  
 Ship Data Distribution System

### Combat Systems

#### Weapons

30 mm Main Gun  
 2 x 25 mm (STOP RsMG)  
 2 x 12.7 mm (STAMP-2 RsMG)  
 Decoy Launching System

#### Sensors

3D Surveillance Radar,  
 Fire Control Radar with E/O,  
 EOD, IFF, WAIS, R-ESM,  
 Meteorological System

#### Communication

HF, UHF and VHF, SATCOM,  
 Military Link System



# OPV-75 Heavy Duty BORA



## Missions

- Operating in tropical environment and conducting border patrols, territorial defense and maritime operations up to Exclusive Economic Zone (EEZ)
- Maritime Security Operation (Anti-piracy, anti-terrorism, anti-smuggling, anti-human trafficking, anti-drug operations and pollution control capability)
- Anti-Surface Warfare and Anti-Air Capability
- Cost effective, robust, easy to operate and maintain
- Capable of helicopter operations and can accommodate any heavy helicopter at the helideck

## General Specifications

### General Information

<b>LOA</b>	: 75 m
<b>Beam</b>	: 12 m
<b>Draft</b>	: 3.3 m
<b>Displacement</b>	: 1,320 tons

### Performance

<b>Speed</b>	: 24/15 kts
<b>Range</b>	: 3,000+ NM
<b>Endurance</b>	: 15 days

### Accommodation

<b>Crew</b>	: 53
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## Systems Configuration

### Propulsion System

#### Propulsion

CODAD Configuration  
with CPP  
2 x Marine Diesel Engines

#### Navigation Systems

Navigation Radars (LPI)  
DGPS, Echosounder, EM Log,  
Ship Data Distribution System

### Combat Systems

#### Weapons

76 mm Main Gun  
2 x 4 SSM (ATMACA)  
1 x 4 SAM (SUNGUR)  
2 x 12.7 mm (RSMG STAMP-2)  
Decoy Launching System

#### Sensors

3D Surveillance Radar,  
Fire Control Radar with E/O,  
EOD, IFF, WAIS, R-ESM,  
Meteorological System

#### Communication

HF, UHF and VHF, SATCOM,  
Military Link System



# **OPV-90 Offshore Patrol Vessel**

## Missions

### Primary Missions

- Operating in tropical environment and conducting border patrols, territorial defense and maritime operations up to the Exclusive Economic Zone (EEZ)
- Intelligence, Surveillance and Reconnaissance (ISR) Operations
- Maritime Security Operation (Anti-piracy, anti-terrorism, anti-smuggling, anti-human trafficking and anti-drug operations)
- Anti-Surface Warfare and Anti-Air Warfare
- Provide Naval Surface Fire Support (NSFS)
- Capable of Helicopter Operations and can accommodate any 10-ton helicopter at the Heli-deck
- Capable of launching and recovering RHIB for Special Operations, VBSS and ship-to-shore movement
- Critical Infrastructure Protection

### Secondary Missions

- Complement Surface Combatants during Naval Operations
- Undertake Humanitarian Assistance and Disaster Response missions and Search and Rescue missions
- Enforce applicable maritime laws within the territorial seas
- Support Naval Air and Special Forces Operations
- Capable of launching and recovering UAS for sustained Maritime Surveillance
- Fishery Protection

## General Specifications

### General Information

<b>LOA</b>	: 90 m
<b>Beam</b>	: 14.2 m
<b>Draft</b>	: 3.7 m
<b>Displacement</b>	: 1.900 tons

### Performance

<b>Speed</b>	: 22/15 kts
<b>Range</b>	: 3.500 NM

### Accommodation

<b>Crew</b>	: 53 - 73
<b>Mission Personnel</b>	: 10

## Systems Configuration

### Propulsion System

#### Propulsion

- Diesel Engines+
- Gear box+
- Shaft+CPP
- 2 x Marine
- Diesel Engines

### Navigation Systems

- X-Band Navigation Radar
- 2 x Fiber Optic INS
- WECDIS, DGPS
- Echo Sounder
- EM Log
- Ship Data Distribution System

### Combat Systems

#### Weapons

- Compact Version*
- 1 x 40 mm Twin Gun, 1 x 30 mm Gun, 2 x 12.7 mm STAMP, Decoy Launching System
- Medium Version*
- 1 x 76 mm Gun, 1 x 30 mm Gun, 2 x 12.7 mm STAMP, Decoy Launching System
- Full Version*
- 1 x 76 mm Gun, 1 x 30 mm Gun, 2 x 12.7 mm STAMP, 2 x 2 SSM, 2 x 4 VLS SAM, Decoy Launching System

#### Sensors

- 3D Surveillance Radar, LPI Radar
- Fire Control Radar with E/O, EOD
- IFF, WAIS, R-ESM, Meteorological Sensors

#### Communication

- HF, UHF and VHF Military Communications
- SATCOM, Military Link System



# **OPV-75 Offshore Patrol Vessel**

## Missions

- Operating in tropical environment and conducting border patrols, territorial defense and maritime operations up to the Exclusive Economic Zone (EEZ)
- Intelligence, Surveillance and Reconnaissance (ISR) Operations
- Maritime Security Operation anti-piracy, anti-terrorism, anti-smuggling, anti-human trafficking and anti-drug operations
- Anti-Surface Warfare and Anti-Air Warfare
- Provide Naval Surface Fire Support (NSFS)
- Capable of Helicopter Operations and can accommodate any 10-ton helicopter at the Heli-deck
- Capable of launching and recovering RHIB for Special Operations, VBSS and ship-to-shore movement
- Critical Infrastructure Protection

## General Specifications

### General Information

<b>LOA</b>	: 74.4 m
<b>Beam</b>	: 12.5 m
<b>Draft</b>	: 3.6 m
<b>Displacement</b>	: 1.400 tons

### Performance

<b>Speed</b>	: 22/15 kts
<b>Range</b>	: 3.500 NM
<b>Endurance</b>	: 7 Days

### Accommodation

<b>Crew</b>	: 49 - 53
<b>Mission Personnel</b>	: 6

## Systems Configuration

### Propulsion System

#### Propulsion

Diesel Engines+  
Gear box+  
Shaft+CPP  
2 x Marine  
Diesel Engines

### Navigation Systems

X-Band Navigation Radar  
2 x Fiber Optic INS  
WECDIS, DGPS  
Echo Sounder  
EM Log  
Ship Data Distribution System

### Combat Systems

#### Weapons

*Compact Version*  
1 x 40 mm Twin Gun, 1 x 30 mm Gun  
2 x 12.7 mm STAMP, Decoy Launching System  
*Medium Version*  
1 x 76 mm Gun, 1 x 30 mm Gun  
2 x 12.7 mm STAMP, Decoy Launching System  
*Full Version*  
1 x 76 mm Gun, 1 x 30 mm Gun  
2 x 12.7 mm STAMP, 2 x 2 SSM  
2 x 4 VLS SAM, Decoy Launching System

#### Sensors

3D Surveillance Radar, LPI Radar  
Fire Control Radar with E/O, EOD  
IFF, WAIS, R-ESM, Meteorological Sensors

#### Communication

HF, UHF and VHF Military  
Communications,  
SATCOM,  
Military Link System



# OPV-85 Offshore Patrol Vessel



## Missions

### Primary Missions

- Exclusive economic zone surveillance
- Fishery inspection & Protection
- Counter drugs & Weapons trafficking
- Piracy & Smuggling Interdiction
- Search & Rescue operations

### Secondary Missions

- Disaster & Humanitarian Relief
- Logistics Support
- Firefighting
- Pollution Control

## General Specifications

### General Information

<b>LOA</b>	: 84.2 m
<b>Beam</b>	: 14 m
<b>Depth</b>	: 5,9 m
<b>Draft</b>	: 3.25 m
<b>Displacement</b>	: 1.750 tons

### Performance

<b>Speed</b>	: 20 kts
<b>Range</b>	: 3.500 NM
<b>Endurance</b>	: 21 days

### Accommodation

<b>Crew</b>	: 58
<b>Mission Personnel</b>	: 12

## Systems Configuration

### Propulsion System

#### Propulsion

- 2 x Diesel Engine
- 2 x 3.300 kW

### Navigation Systems

- Magnetic Compass
- INS/GPS
- Echosunder
- Gyro Compass
- Navigation Radar

### Combat Systems

#### Weapons

- Main forward gun up to 76 mm
- 2 x 12.7 mm STAMP

#### Sensors

- Medium Range Survival Radar
- E/O Fire Control Sensor
- 3D Search Radar
- Electro Optical Director

#### Communication

- Integrated Communication System



# KAAN-77

## Offshore Patrol Vessel



### Missions

#### Primary Missions

- Maritime Patrol and Surveillance Operations
- Monitoring and patrolling shipping lines
- Conduct Search and Rescue operations
- EEZ control and surveillance
- Boarding operations and boarding team support
- Seizing, recovering and transporting
- UAV / Helo (up to 10 t) capability
- Anti-piracy, Anti-terrorism, Anti-smuggling
- Anti-human trafficking and Anti-drug operations

#### Secondary Missions

- Support humanitarian relief operations
- Illegal fishing equipment
- Support SFO
- Support naval operations
- Environmental protection & control,
- Conduct surveillance on fisheries operations

### General Specifications

#### General Information

<b>LOA</b>	: 88.4 m
<b>Beam</b>	: 12.92 m
<b>Draft</b>	: 3.3 m
<b>Displacement</b>	: 1.100 tons

#### Performance

<b>Speed</b>	: +30/18-21 kts
<b>Range</b>	: 1.600 NM

#### Accommodation

<b>Crew</b>	: 55
<b>Mission Personnel</b>	: 4

### Systems Configuration

#### Propulsion System

##### Propulsion

- 2 x 8.000 KW Diesel Engines
- 2 x VOITH Linear Jet

##### GENSET

- 3 x 270 KVA DG Sets

#### Navigation Systems

- LPI Radar
- Navigation Radar
- DGPS
- Echosounder
- Gyro Compass
- Speed Log
- (W)AIS

#### Combat Systems

##### Weapons

- 1 x 40 mm Main Gun, 2 x 12,7 mm Machine Gun
- Decoy Launching System

##### Sensors

- Combat Management System (CMS)
- Ship Data Distribution System (SDDS)
- 3D Search Radar, R-ESM, EOD, IFF
- Meteorological Measurement System (MMS),

##### Communication

- HF, UHF and VHF Military Communications
- Integrated Communication System,
- SATCOM, Military Link System

# FACM-70

## Fast Attack Craft Missiled



### Missions

#### Primary Missions

- Intelligence, Surveillance and Reconnaissance (ISR) operations
- Anti-Surface Warfare and Anti-Air Warfare
- Patrol Missions at night and restrictive sight, high level radar coverage

#### Secondary Missions

- Support Surface Combatants during Naval Operations
- Support Naval Air and Special Forces Operations
- Operations against Asymmetric Threats
- Search & Rescue (SAR) operations near combat zones

### General Specifications

#### General Information

<b>LOA</b>	: 70 m
<b>Beam</b>	: 11.8 m
<b>Draft</b>	: 2.85 m
<b>Displacement</b>	: 850 tons

#### Performance

<b>Speed</b>	: +40/20 kts
<b>Range</b>	: 1600 NM
<b>Endurance</b>	: 7 days

#### Accommodation

<b>Crew</b>	: 43
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### Systems Configuration

#### Propulsion System

##### Propulsion

- 3 x Water Jet
- 2 x Marine Diesel Engines
- 1 x Gas Turbine

#### Navigation Systems

- Navigation Radars
- DGPS,
- Echosounder,
- Gyro /INS, EM-LOG,
- W-ECDIS, W-AIS

#### Combat Systems

##### Weapons

- 76 mm Main Gun,
- 2 x 4 SSM , CIWS
- 2 X 12.7 mm
- Decoy Launching System

##### Sensors

- Air and Surface Surveillance
- 3D Radar, IFF, R-ESM,
- Electro Optical Reconnaissance and Surveillance System,
- Fire Control Radar,
- Meteorological Sensors

#### Communication

- Integrated Comm. System:
- HF TxRx, HF Rx, U/VHF TxRx,
- SATCOM, Tactical Data Link

# FPB-68

## Fast Patrol Boat



### Missions

#### Primary Missions

- Intelligence, Surveillance and Reconnaissance (ISR) operations
- Anti-Surface Warfare, Anti-Air-Warfare and Anti-Submarine Warfare
- Maritime Security Operation (Anti-piracy, anti-terrorism, anti-smuggling, anti-human trafficking and anti-drug operations)
- Conducting border patrols, territorial defense and maritime operations up to Exclusive Economic Zone (EEZ)

#### Secondary Missions

- Defense against asymmetric threats
- Amphibious operations Support
- Training

### General Specifications

#### General Information

<b>LOA</b>	: 67.70 m
<b>Beam</b>	: 10.2 m
<b>Draft</b>	: 3.05 m
<b>Displacement</b>	: 830 tons

#### Performance

<b>Speed</b>	: 50/23 kts
<b>Range</b>	: 1.000 NM at 23 kts 500 NM at 50 kts
<b>Endurance</b>	: 7 days

#### Accommodation

<b>Crew</b>	: 30
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### Systems Configuration

#### Propulsion System

##### Propulsion

- CODAG
- 1 x 25.000 KW Gas Turbine
- 2 x 4.800 KW Diesel Engines
- 2 x Steerable + 2 Booster Waterjets

##### GENSET

- 2 x 400 KW Diesel Generator

#### Navigation Systems

- Navigation Radars (S-Band and X-Band)
- Magnetic Compass
- Gyro Compass
- WECDIS
- WAIS
- Digital Plotting Table
- GPS
- Echosounder
- EM Log

#### Combat Systems

##### Weapons

- 1 x 76 mm Main Gun
- 2 x 12.7 mm
- 2 x 4 SSM, 1 x CIWS
- Decoy Launching System

##### Sensors

- 3D Search Radar, Fire Control Radar
- Meteorological Measurement System (MMS)
- Electro Optic (E/O) System, IFF

##### Communication

- HF, UHF and VHF Military Communication
- Integrated Communication System



# GMFPB-67

## Guided Missile Fast Patrol Boat



### Missions

Carrying out following missions until sea state 5 with high speed;

- Surface Warfare
- Patrol duties in littoral area

### General Specifications

#### General Information

<b>LOA</b>	: 66.9 m
<b>Beam</b>	: 11.8 m
<b>Draft</b>	: Forward <2.0 m / Aft <3.2 m
<b>Displacement</b>	: 800 tons

#### Performance

<b>Speed</b>	: 55/28 kts
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#### Accommodation

<b>Crew</b>	: 36
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### Systems Configuration

#### Propulsion System

##### Propulsion

- COGAG + Gear Box+
- 3 x Water Jet Units
- 4 x Gas Turbine +
- 1 x Buster Gas Turbine
- 4 x 4.200 kW +
- 1 x 25.000 kW

#### Navigation Systems

- 2 x Fiber Optic INS,
- ECDIS, DGPS
- Echo Sounder,
- EM Log
- Ship Data Distribution System

#### Combat Systems

##### Weapons

- 1 x 76 mm Gun, 2x12,7STAMP
- 2 x 4 SSM, CIWS

##### Sensors

- 3D Surveillance Radar
- Fire Control Radar with E/O
- IFF, WAIS, R-ESM, LWS
- Meteorological sensors

##### Communication

- HF, UHF and VHF Military Communications
- SATCOM, Military Link System



# LPC-65

## Large Patrol Craft ASUW



### Missions

#### Primary Missions

- Intelligence, Surveillance and Reconnaissance (ISR) Operations
- Operating in tropical environment and conducting border patrols, territorial defense and maritime operations in littoral waters of Exclusive Economic Zone (EEZ)
- Maritime Security Operation (Anti-piracy, anti-terrorism, anti smuggling, anti-human trafficking, anti-drug operations and pollution control capability)

### General Specifications

#### General Information

<b>LOA</b>	: 65 m
<b>Beam</b>	: 9.45 m
<b>Draft</b>	: 2.55 m
<b>Displacement</b>	: 660 tons

#### Performance

<b>Speed</b>	: 27/19 Kts
<b>Range</b>	: 1.500 NM
<b>Endurance</b>	: 7 days

#### Accommodation

<b>Crew</b>	: 55
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### Systems Configuration

#### Propulsion System

##### Propulsion

CODAD Configuration  
with CPP  
2 x Marine Diesel Engine

#### Navigation Systems

Navigation Radar  
(LPI), DGPS,  
Echosounder,  
EM Log,  
Ship Data  
Distribution System

#### Combat Systems

##### Weapons

76 mm Main Gun, PDMS/CIWS,  
12.7 mm STAMP,  
Decoy Launching System

##### Sensors

3D Search Radar, E/O Sensors,  
Fire Control Radar, R-ESM

##### Communication

HF, UHF and VHF,  
Military Link System, SATCOM



# LPC-65

## Large Patrol Craft ASUW -AAW



### Missions

#### Primary Missions

- Intelligence, Surveillance and Reconnaissance (ISR) Operations
- Operating in tropical environment and conducting border patrols, territorial defense and maritime operations in littoral waters of Exclusive Economic Zone (EEZ)
- Maritime Security Operation (Anti-piracy, anti-terrorism, anti smuggling, anti-human trafficking, anti-drug operations and pollution control capability)

### General Specifications

#### General Information

<b>LOA</b>	: 65 m
<b>Beam</b>	: 9.45 m
<b>Draft</b>	: 2.55 m
<b>Displacement</b>	: 660 tons

#### Performance

<b>Speed</b>	: 27/19 Kts
<b>Range</b>	: 1.500 NM
<b>Endurance</b>	: 7 days

#### Accommodation

<b>Crew</b>	: 55
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### Systems Configuration

#### Propulsion System

##### Propulsion

CODAD Configuration  
with CPP  
2 x Marine Diesel Engine

#### Navigation Systems

Navigation Radar  
(LPI), DGPS,  
Echosounder,  
EM Log,  
Ship Data Distribution  
System

#### Combat Systems

##### Weapons

76 mm Main Gun,  
40 mm Gun (Twin Barrel)  
2 x 4 SSM (ATMACA)

##### Sensors

E/O Sensors, Fire Control Radar,  
R-ESM, 3D Search Radar

##### Communication

HF, UHF and VHF,  
Military Link System, SATCOM



# LPC-65

## Large Patrol Craft AAW-ASW-ASUW



### Missions

#### Primary Missions

- Intelligence, Surveillance and Reconnaissance (ISR) Operations
- Operating in tropical environment and conducting border patrols, territorial defense and maritime operations in littoral waters of Exclusive Economic Zone (EEZ)
- Executes ASuW, AAW and ASW missions

### General Specifications

#### General Information

<b>LOA</b>	: 65 m
<b>Beam</b>	: 9.45 m
<b>Draft</b>	: 2.55 m
<b>Displacement</b>	: 660 tons

#### Performance

<b>Speed</b>	: 27/19 Kts
<b>Range</b>	: 1.500 NM
<b>Endurance</b>	: 7 days

#### Accommodation

<b>Crew</b>	: 55
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### Systems Configuration

#### Propulsion System

##### Propulsion

CODAD Configuration  
with CPP  
2 x Marine Diesel Engine

#### Navigation Systems

Navigation Radar  
(LPI), DGPS,  
Echosounder,  
EM Log,  
Ship Data Distribution  
System

#### Combat Systems

##### Weapons

76 mm Main Gun,  
40 mm Gun (Twin Barrel)  
2 x 4 SMM (ATMACA)  
ASW Rocket

##### Sensors

E/O Sensors, Fire Control Radar,  
R-ESM, 3D Search Radar

##### Communication

HF, UHF and VHF,  
Military Link System, SATCOM



# GMFPB-60

## Guided Missile Fast Patrol Boat



### Missions

- Surface Warfare and Anti Air Warfare
- Patrol duties in littoral waters

### General Specifications

#### General Information

<b>LOA</b>	: 60.85 m
<b>Beam</b>	: 10.4 m
<b>Draft</b>	: 1.95 m
<b>Displacement</b>	: 425 tons

#### Performance

<b>Speed</b>	: 54/30 kts
<b>Range</b>	: 800 NM
<b>Endurance</b>	: 21 days

#### Accommodation

<b>Crew</b>	: 36
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### Systems Configuration

#### Propulsion System

##### Propulsion

CODAD Configuration  
with CPP  
4 x Marine Diesel Engines

#### Navigation Systems

Navigation Radar (LPI),  
DGPS, Anemometer,  
Echosounder,  
Fiber Optic INS,  
LOG, WECDIS,  
Ship Data  
Distribution System

#### Combat Systems

##### Weapons

76 mm Main Gun,  
PDMS/CIWS, 12.7 mm STAMP,  
Decoy Launching System

##### Sensors

IFF, IRST, R-ESM,  
3D Search Radar

##### Communication

HF, UHF and VHF  
Military Link System, SATCOM

# FPB-57

## Fast Patrol Boat



### Missions

- Surface Warfare
- Patrol duties in littoral area

### General Specifications

#### General Information

<b>LOA</b>	: 56.7 m
<b>Beam</b>	: 9.2 m
<b>Displacement</b>	: 420 tons

#### Performance

<b>Speed</b>	: 22/15 kts
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#### Accommodation

<b>Crew</b>	: 39
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### Systems Configuration

#### Propulsion System

##### Propulsion

Diesel Engines+  
Gear box+Shaft+FPP  
2 x Diesel Engine  
2 x 4.320 kW

#### Navigation Systems

2 x Fiber Optic INS  
ECDIS, DGPS  
Echo Sounder  
EM Log  
Ship Data Distribution  
System  
Meteorological  
Sensors

#### Combat Systems

##### Weapons

1 x 76 Main Gun  
1 x 30/40 mm Gun  
2 x 12.7 STAMP, 2 x 4 SSM, CIWS

##### Sensors

Fire Control Radar with E/O  
EOD, IFF, WAIS, R-ESM,  
3D Surveillance Radar

##### Communication

HF, UHF and VHF  
Military Communications  
Military Link System



# FAB-56 Fast Attack Boat



## Missions

### Primary Missions

- Tactical attack boat for surface warfare and inshore patrol boat missions
- Counter piracy

### Secondary Missions

- Surface rescue
- Humanitarian aid
- Surveillance and support missions

## General Specifications

### General Information

<b>LOA</b>	: 56.2 m
<b>Beam</b>	: 9.8 m
<b>Depth</b>	: 4.7 m
<b>Draft</b>	: 2 m
<b>Displacement</b>	: 400 tons

### Performance

<b>Speed</b>	: 53 kts
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### Accommodation

<b>Crew</b>	: 35
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## Systems Configuration

### Propulsion System

#### Propulsion

- COGAG
- 2 x Diesel Engine +
- 2 x Gas Turbine
- 2 x 4.800 kW +
- 2 x 4.600 kW

### Navigation Systems

- Magnetic Compass
- LPI Radar
- Echosunder
- Gyro Compass
- Navigation Radar

### Combat Systems

#### Weapons

- RAM G/M System, STAMP/STOP
- SSM G/M Launcher, 76 mm Main Gun
- Decoy Launching System

#### Sensors

- Fire Control Radar
- 3D Radar

#### Communication

- Integrated Communication System



# CPV-56 COASTAL PATROL VESSEL



## Missions

### Primary Missions

- Patrol Missions such as anti-piracy anti-smuggling anti-drug & anti-trafficking at night and restrictive sight high level radar coverage
- Fishery protection and Law Enforcement duties
- Intelligence Surveillance and Reconnaissance (ISR) operations

### Secondary Missions

- Search and Rescue operations (SAR) within or near combat zones
- Protection of Blue Economic activities Support Surface Combatants during Naval Operations
- Operations against Asymmetric Threats
- Support Special Forces Operations

## General Specifications

### General Information

<b>LOA</b>	: 56 m
<b>Beam</b>	: 8.15 m
<b>Draft</b>	: 2.2 m
<b>Displacement</b>	: 383 tons

### Performance

<b>Speed</b>	: +28/15 kts
<b>Range</b>	: 2.000 NM
<b>Endurance</b>	: 10 days

### Accommodation

<b>Crew</b>	: 30
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## Systems Configuration

### Propulsion System

#### Propulsion

- 2 x FPP
- 2 x Marine Diesel Engine

### Navigation Systems

- 2 x Navigation Radars (S-Band and X- Band)
- DGPS,
- Echosounder,
- Gyro,
- EM-LOG, ECDIS,
- AIS

### Combat Systems

#### Weapons

- 30 mm Main Gun
- 2 x 12.7 mm

#### Sensors

- 1 x Electro-Optical Reconnaissance and Surveillance System,
- Meteorological System

#### Communication

- HF TxRx, U/VHF TxRx,
- VSAT, SATPHONE



# FAC-45

## Fast Attack Boat



### Missions

#### Primary Missions

- Intelligence, Surveillance and Reconnaissance (ISR) operations
- Anti-Surface Warfare
- Patrol Missions at night and restrictive sight, high level radar coverage
- Support Surface Combatants during Naval Operations

#### Secondary Missions

- Support Special Forces Operations
- Operations against Asymmetric Threats
- Search and Rescue operations (SAR) within or near combat zones

### General Specifications

#### General Information

<b>LOA</b>	: 45.75 m
<b>Beam</b>	: 7.9 m
<b>Draft</b>	: 1.85 m
<b>Displacement</b>	: 300 tons

#### Performance

<b>Speed</b>	: +40/14 kts
<b>Range</b>	: 800 NM
<b>Endurance</b>	: 7 days

#### Accommodation

<b>Crew</b>	: 22
-------------	------

### Systems Configuration

#### Propulsion System

##### Propulsion

CODAD Configuration  
with 3 Waterjets  
3 x Marine Diesel Engine

#### Navigation Systems

Navigation Radars,  
DGPS, Echosounder,  
Gyro / INS, EM-LOG,  
(W)ECDIS, (W)AIS

#### Combat Systems

##### Weapons

30 mm Main Gun  
2 x 1 SSM  
2 x 12.7 mm  
Decoy Launching System

##### Sensors

Air & Surface Surveillance,  
IFF System, 1 x Electro-Optical  
Reconnaissance & Surveillance System,  
R-ESM, 2D Radar  
Meteorological Sensors

##### Communication

Integrated Comm. System  
HF TxRx, HF Rx, U/VHF TxRx,  
SATCOM, Tactical Data Link



# RPV-42 Riverine Patrol Vessel



## Missions

### Primary Missions

- Patrol Missions such as anti-piracy, anti-smuggling, anti-drug & anti-trafficking at night and restrictive sight, high level radar coverage,
- Fishery protection and Law Enforcement duties,
- Intelligence, Surveillance and Reconnaissance (ISR) operations,
- Search and Rescue operations (SAR) within or near combat zones.

### Secondary Missions

- Protection of Blue Economic activities, Support Surface Combatants during Naval Operations
- Support Special Forces Operations
- Operations against Asymmetric Threats

## General Specifications

### General Information

<b>LOA</b>	: 42 m
<b>Beam</b>	: 7.3 m
<b>Draft</b>	: 1.85 m
<b>Displacement</b>	: 250 tons

### Performance

<b>Speed</b>	: +28/15 kts
<b>Range</b>	: 1500 NM
<b>Endurance</b>	: 10 days

### Accommodation

<b>Crew</b>	: 25
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## Systems Configuration

### Propulsion System

#### Propulsion

- 2 x FPP
- 2 x Marine Diesel Engines

### Navigation Systems

- Navigation Radars
- DGPS, Echosounder,
- Gyro, EM-LOG,
- ECDIS, AIS

### Combat Systems

#### Weapons

- 30 mm Main Gun, 2 x 12.7 mm

#### Sensors

- 1 x Electro-Optical Reconnaissance and Surveillance System,
- Meteorological Sensors,

#### Communication

- HF TxRx, U/VHF TxRx,
- VSAT, SATPHONE



# FAC-40

## Fast Attack Craft



### Missions

#### Primary Missions

- Carrying out surveillance
- Surface Warfare tasks
- Petrol platform protection

#### Secondary Missions

- To conduct patrol duties in and around port and coastal areas
- Protection of territorial waters, anti-piracy, anti-smuggling, anti-drug trafficking operation
- Fishery protection
- Surveillance
- Search and rescue operation

### General Specifications

#### General Information

<b>LOA</b>	: 39.9 m
<b>Beam</b>	: 9.1 m
<b>Draft</b>	: 1.8 m
<b>Displacement</b>	: 350 tons

#### Performance

<b>Speed</b>	: > 35 kts
<b>Range</b>	: > 800 NM with 20 kts
<b>Endurance</b>	: 5 days

#### Accommodation

<b>Crew</b>	: 22
-------------	------

### Systems Configuration

#### Propulsion System

##### Propulsion

Diesel Engine+  
Gear box+Water jet unit  
3 x Marine Diesel Engine

#### Navigation Systems

Integrated Bridge  
System including  
X-Band Navigation  
Radar, 2 x Fiber Optic  
INS, WECDIS, DGPS,  
Echo Sounder,  
EM Log, Ship Data  
Distribution System

#### Combat Systems

##### Weapons

1 x 30 mm Gun, 2 x 12.7 mm Gun,  
2 x 2 SSM

##### Sensors

3D Surveillance Radar  
Electro Optic Fire Control Radar  
IFF, WAIS, R-ESM, Meteorological sensors

##### Communication

HF, UHF and VHF  
Military Communications, SATCOM



# FAC-33 FAST ATTACK CRAFT



## Missions

### Primary Missions

- Intelligence, Surveillance and Reconnaissance (ISR) operations
- Patrol Missions at night and restrictive sight, high level radar coverage
- Search and Rescue operations (SAR) within or near combat zones

### Secondary Missions

- Support Special Forces Operations
- Operations against Asymmetric Threats

## General Specifications

### General Information

<b>LOA</b>	: 33 m
<b>Beam</b>	: 7 m
<b>Draft</b>	: 1,45 m
<b>Displacement</b>	: 140 tons

### Performance

<b>Speed</b>	: +32/14 kts
<b>Range</b>	: 1.400 NM
<b>Endurance</b>	: 7 days

### Accommodation

<b>Crew</b>	: 14-20
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## Systems Configuration

### Propulsion System

#### Propulsion

- 2 x Diesel Engine
- 2 x FPP

#### GENSET

- 3 x Marine Diesel Generator

### Navigation Systems

- Navigation Radar
- (D)GPS
- Echosounder
- Gyro / INS
- EM-LOG
- ECDIS
- (W)AIS

### Combat Systems

#### Weapons

- 2 x 30 mm Main Gun
- 2 x 12,7 mm Machine Gun

#### Sensors

- 1 x Electro-Optical Reconnaissance and Surveillance System,
- Meteorological Sensors

#### Communication

- Integrated Communication System
- HF Rx, U/VHF TxRx



# MPSRS-95

## Multi Purpose Support & Rescue Ship



### Missions

#### Primary Missions

- Deep sea survey operation. Sea bottom imaging, high acoustic capabilities
- Treating diving diseases with post modern decompression/recompression pressure chambers for 32 persons direct connected to DSRV and extensive hospital facilities
- 400 m<sup>2</sup> deck operation area for operation oil skimmer devices, Atmospheric Diving System, (ADS), remote operated vehicle and transfer of various goods
- Search and rescue capability up to sea state 6
- Area to carry up to twelve multi-purpose containers for different missions
- Helicopter operation support for day and night

### General Specifications

#### General Information

<b>LOA</b>	: 95 m
<b>Beam</b>	: 18 m
<b>Draft</b>	: 4.4 m
<b>Displacement</b>	: 4.400 tons

#### Performance

<b>Speed</b>	: 14/18 kts
<b>Range</b>	: 4.500 NM
<b>Endurance</b>	: 14 days

#### Accommodation

<b>Crew</b>	: 70
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### Systems Configuration

#### Propulsion System

##### Propulsion

Diesel Electric,  
Configuration with  
2 x Azimuth Propeller  
2 x 4300 kW Diesel Engine

#### Navigation Systems

2 x X-Band Nav. Rad.,  
Magnetic Compass,  
2x(D)GPS, EM Log,  
Echo Sounder,  
2 x Gyro Compass  
W-AIS, W-ECDIS,  
Meteorological System

#### Combat Systems

##### Weapons

1 x 30 mm Main Gun  
2 x 12.7 Machine Gun

##### Communication

Integrated Communication  
System, HF, UHF, and  
VHF Military Communications  
Ku-Band SATCOM



# CTS-90

## Cadet Training Ship



### Missions

#### Primary Missions

- Provide Sea Training for Naval Cadets

#### Secondary Missions

- Perform logistics support, escort and patrol duties

### General Specifications

#### General Information

<b>LOA</b>	: 89.6 m
<b>Beam</b>	: 14.2 m
<b>Draft</b>	: 3.5 - 4.0 m
<b>Displacement</b>	: 1.950 tons

#### Performance

<b>Speed</b>	: 22/18 kts
<b>Range</b>	: > 2000 NM

#### Accommodation

<b>Crew</b>	: 58
<b>Cadets</b>	: 80
<b>Instructors</b>	: 8

### Systems Configuration

#### Propulsion System

##### Propulsion

Diesel Engines+  
Gear box+Shaft+CPP  
2 x Diesel Engine  
2 x 5.460 kW

#### Navigation Systems

2 x Fiber Optic INS  
ECDIS, DGPS  
Echo Sounder  
EM Log  
Ship Data Distribution System

#### Combat Systems

##### Weapons

1 x 30 mm Main Gun  
2 x 12,7 Machine Gun

##### Sensors

2 x X-Band and  
1 x S- Band Radar  
Electro Optical Director  
Meteorological Sensors

##### Communication

HF, UHF and VHF Military  
Communications, SATCOM



# ERV-90

## Emergency Response & Rescue Vessel



### Missions

#### Primary Missions

- Ship salvage
- Towage
- Firefighting
- Oil pollution prevention
- Diving services
- Oil pollution analysis of sea water

#### Secondary Missions

- Helicopter services
- Offshore command and control center
- Survival casualties
- Embarkation services

### General Specifications

#### General Information

<b>LOA</b>	: 87.8 m
<b>Beam</b>	: 18 m
<b>Depth</b>	: 8.25 m
<b>Draft</b>	: 7.4 m
<b>Displacement</b>	: 6.400 tons

#### Performance

<b>Speed</b>	: 16 kts
<b>Bollard Pull</b>	: 200 tons

#### Accommodation

<b>Crew</b>	: 45
<b>Survivors</b>	: 20

### Systems Configuration

#### Propulsion System

##### Propulsion

BERG (BCP 1230 F)  
Diesel Electric  
4 x 3.500 kW

#### Navigation Systems

Sperry Marine  
KONGSBERG (K-Pos DP-2)

#### Communication Systems

A3



# MPT-70 Multi Purpose Tug



## Missions

### Primary Missions

- Towing winch to tow ships on the open-sea and pull the targets for surface fire of ships
- To recover and tow damaged ships that are unable to sail because of fire, striking, grounding or malfunctioning
- Firefighting

### Secondary Missions

- Maintenance of buoys
- To conduct diving support platform tasks for diving missions

## General Specifications

### General Information

<b>LOA</b>	: 70 m
<b>Beam</b>	: 15 m
<b>Depth</b>	: 7.1 m
<b>Draft</b>	: 4.3 m
<b>Displacement</b>	: 2.600 tons

### Performance

<b>Speed</b>	: 18 kts
<b>Range</b>	: 2.800 NM
<b>Endurance</b>	: 35 Days

### Accommodation

<b>Crew</b>	: 70
<b>Rescue Personnel</b>	: 14

## Systems Configuration

### Propulsion System

#### Propulsion

- 2 x Controllable Pitch Propeller
- Diesel Engine
- 7.200 kW

### Navigation Systems

- Navigation Radar
- Echosounder
- Electromagnetic Log
- GPS - AIS - Gyro-compass
- WECDIS - Auto Pilot
- Dynamic positioning System
- Meteo Measuring System

### Combat Systems

#### Weapons

- 2 x 12,7 Machine Gun

#### Communication

- Military Communication Systems
- Message Handling System
- SATCOM

# CG-68 Coast Guard



## Missions

### Primary Missions

- Combat Search and Rescue (CSAR) Operations
- Maritime Security Operations (MSO)
- Exclusive Economic Zone (EEZ) Patrolling
- UAV Helicopter Operations
- Intelligence, Surveillance and Reconnaissance (ISR) Operations

### Secondary Missions

- Defence against asymmetric threats
- Training

## General Specifications

### General Information

<b>LOA</b>	: 68 m
<b>Beam</b>	: 13 m
<b>Draft</b>	: 3 m
<b>Displacement</b>	: 1.255 tons

### Performance

<b>Speed</b>	: +22/+17kts
<b>Range</b>	: 3850 NM at 17 kts or 1400 NM at 22 kts

### Accommodation

<b>Crew</b>	: 55
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## Systems Configuration

### Propulsion System

#### Propulsion

- 2 x 3700 kw Diesel Engines
- 2 x FPP

#### GENSET

- 4 x 450 kW Diesel Gen

### Navigation Systems

- Navigation Radar
- Gyro Compass
- (W)ECDIS
- (W)AIS
- Digital Plotting Table
- GPS
- Echosounder
- EM Log

### Combat Systems

#### Weapons

- 2 x 30 mm Main Gun
- 2 x 12,7 mm Machine Gun

#### Sensors

- Combat Management System (CMS)
- Radar, EO
- Meteorological Measurement System

#### Communication

- Integrated Communication System
- HF Rx, U/VHF TxRx, SATCOM,
- Military Link System

# ERDSB-52

## Emergency Rescue & Diver Support Boat



### Missions

- Diving operations Training
- Emergency Response

### General Specifications

#### General Information

<b>LOA</b>	: 52 m
<b>Beam</b>	: 19 m
<b>Draft</b>	: 2.6 m
<b>Displacement</b>	: 800 tons

#### Performance

<b>Speed</b>	: 15 Kts
<b>Range</b>	: > 3000 NM
<b>Endurance</b>	: 14 days

#### Accommodation

<b>Crew</b>	: 38
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### Systems Configuration

#### Propulsion System

##### Propulsion

Diesel Engines+  
Gear box+Shaft+CPP  
2 x Diesel Engine  
2 x 3.300 kW

#### Navigation Systems

2 x Fiber Optic INS  
WECDIS, DGPS  
Echo Sounder  
EM Log

#### Combat Systems

##### Weapons

1 x 12.7 mm STAMP  
2 x 12.7 mm Gun

##### Sensors

Navigation radar,AIS,  
Meteorological Sensors

##### Communication

HF, UHF and VHF Military  
Communications,  
SATCOM



# ERDTB-35

## Emergency Rescue & Diver Training Boat



### Missions

- Diving operations training
- Emergency response

### General Specifications

#### General Information

<b>LOA</b>	: 35.5 m
<b>Beam</b>	: 8 m
<b>Depth</b>	: 3.6 m
<b>Draft</b>	: 1.9 m
<b>Displacement</b>	: 285 tons

#### Performance

<b>Speed</b>	: 12 kts
<b>Range</b>	: 100 NM

#### Accommodation

<b>Crew</b>	: 6
<b>Trainee Divers</b>	: 15

### Systems Configuration

#### Propulsion System

##### Propulsion

2 x Fixed  
Pitch Propeller  
Diesel Engine  
2 x 1.000 kW

#### Navigation Systems

Navigation Radar  
Echosounder  
Electromagnetic Log  
GPS  
AIS  
Gyro-compass

#### Combat Systems

##### Communication

VHF IMM  
Underwater Telephone



# NOTC-28 Naval Offshore Troop Carrier



## Missions

- To provide personnel transfer between various locations.

## General Specifications

### General Information

<b>LOA</b>	: 28,2 m
<b>Beam</b>	: 8,5 m
<b>Draft</b>	: 1,5 m
<b>Displacement</b>	: 105 tons

### Performance

<b>Speed</b>	: 29 kts
<b>Range</b>	: 400 NM
<b>Endurance</b>	: Daily operation

### Accommodation

<b>Crew</b>	: 4
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## Systems Configuration

### Propulsion System

#### Propulsion

Diesel Engine+  
Gear box+  
Water Jet Unit  
2 x Marine Diesel  
Engines

### Navigation Systems

Navigation Radar  
2 x Fiber Optic INS  
Gyro/Magnetic Compass  
ECDIS, GPS  
Echo Sounder, EM Log

### Combat Systems

#### Weapons

2 x 12.7 mm Machine Guns

#### Communication

UHF and VHF  
Military Communications



# USV

# Unmanned Surface Vehicle (MARLIN)



## Missions

- Anti Surface Warfare
- Anti Submarine Warfare
- Amphibious Operations
- Electronic Warfare
- Engage with SSM to Surface and Shore
- Engage asymmetric threats
- Cooperation with UAV for Targeting
- Interoperability

## General Specifications

### General Information

<b>LOA</b>	: 15 m
<b>Beam</b>	: 4 m
<b>Draft</b>	: 0.8 m
<b>Payload Capacity</b>	: > 4 tons
<b>Displacement</b>	: 21 tons

### Performance

<b>Speed</b>	: +45/19 kts
<b>Range</b>	: 1.000 NM
<b>Endurance</b>	: 7 days
<b>Sea State</b>	: 5

### Accommodation

<b>Supervisor</b>	: 1
<b>Operator</b>	: 1

## Systems Configuration

### Propulsion System

#### Propulsion

- 2 x Diesel Engine
- 2 x Water Jets or
- 2 x Azimuth-Driven

### Navigation Systems

- Radar
- Magnetic Compass
- Gyro Compass
- GPS
- Echosounder
- EM Log

### Combat Systems

#### Weapons:

- 20 x SSM (Monohull)
- 40 x SSM (Trimaran hull)
- 4 x Torpedoes
- Laser Gun / 12,7 mm Machine Gun
- R-ECM

#### Sensors:

- Radar & EO, R-ESM

#### Communication:

- Broadband Satellite Communication System
- Narrowband Satellite Communication System
- RF Communication, 4G / LTE Communication



# LPHD

## Landing Platform Helicopter Dock

### Missions



#### Primary Missions

- To carry out amphibious operations and force deployment
- To land embarked vehicles, personnel with all their weapons, by bow door and ramp, LCM/LCAC landing crafts in the Dock area, helicopters at Flight Deck or a combination of all these assets
- To Provide Emergency Medical and Life Support for LST-HD embarked personnel

#### Secondary Missions

- To conduct large-scale humanitarian and disaster relief missions
- To be used as a healthcare and hospital support facility
- To land personnel, vehicles and supplies in ports and poorly equipped areas through on-board vessels, landing craft mechanized (LCM) units or Air-cushioned landing craft, LCAC (multi-purpose hovercraft)

### General Specifications

#### General Information

<b>LOA</b>	: 161 m
<b>Beam</b>	: 24 - 31 m
<b>Depth</b>	: 12.5 m
<b>Draft</b>	: Forward <1,9m/Aft<5,0m
<b>Displacement</b>	: 10.000 tons

#### Performance

<b>Speed</b>	: 18/15 kts
<b>Range</b>	: 8.000 NM
<b>Endurance</b>	: 10 days with Marine unit / 30 days with Crew

#### Accommodation

<b>Crew</b>	: 184
<b>Helicopter Wing Personnel</b>	: 22
<b>Embarked Marines</b>	: 354

### Systems Configuration

#### Propulsion System

##### Propulsion

Diesel Engines+  
Gear box+  
Shaft+CPP  
4 x Diesel Engines

#### Navigation Systems

Navigation Radar,  
2 x Fiber Optic INS,  
WECDIS  
DGPS  
Echo Sounder  
EM Log  
Ship Data Distribution System

#### Combat Systems

##### Weapons

*OPTION-1* 1 x 76 mm Gun, 4 x 12.7 mm STAMP,  
2 x CIWS, 2 x 4 SSM, 2 x 4 SAM-VLS, Decoy Launching System  
*OPTION-2* 1 x 76 mm Gun, 1 x 40 mm Gun,  
4 x 12.7 mm STAMP, 2 x CIWS, Decoy Launching System

##### Sensors

3D Surveillance Radar, LPI Radar,  
Fire control radar with E/O Sensor,  
EOD, LWS, R-ESM, IFF, WAIS  
Meteorological sensors

##### Communication

HF, UHF and VHF Military Communications,  
SATCOM, Military Link System



# LPD Landing Platform Dock



## Missions

### Primary Missions

- To carry out amphibious operations and force deployment
- To land embarked vehicles, personnel with all their weapons, by bow door and ramp, LCM/LCAC landing crafts in the Dock area, helicopters at Flight Deck or a combination of all these assets
- To Provide Emergency Medical and Life Support for LST-HD embarked personnel

### Secondary Missions

- To conduct large-scale humanitarian and disaster relief missions
- To be used as a healthcare and hospital support facility
- To land personnel, vehicles and supplies in ports and poorly equipped areas through on-board vessels, landing craft mechanized (LCM) units or Air-cushioned landing craft, LCAC (multi-purpose hovercraft)

## General Specifications

### General Information

<b>LOA</b>	: 153 m
<b>Depth</b>	: 24 - 29.6 m
<b>Draft</b>	: Forward <1.9 m
<b>Displacement</b>	: 9.500 tons

### Performance

<b>Speed</b>	: 15 kts
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### Accommodation

<b>Crew</b>	: 183
<b>Docking Personnel</b>	: 6
<b>Pilots</b>	: 22
<b>Embarked Marines</b>	: 388

## Systems Configuration

### Propulsion System

#### Propulsion

- Diesel Engine
- 4 x Diesel Engines
- 4 x 4.320 kW

#### Navigation Systems

- Navigation Radar

### Combat Systems

#### Weapons

- 2 x 40mm Main Guns,
- 4 x 12.7mm
- STAMP, 2xPHALANX,
- Decoy Launching System,
- Torpedo Countermeasure Systems (TCMS),
- Platform up to
- 3-5 x 15 Ton Helicopters

### Sensors

- 2 x Electrooptic Sensor, Infrared Search and Track (IRST), Laser Warning System (LWS), R-ESM, IFF, WAIS, LPI Radar, 3D Surveillance Radar

### Communication

- HF, UHF and VHF Military Communications, SATCOM, , Military Link Systems

# LST-140

## Landing Ship Tank



## Missions



### Primary Missions

- LST is capable of carrying out various functions within Amphibious Operation such as transportation of troops and vehicles, Command&Control of Combined Joint Task Force

### Secondary Missions

- During peace time, LST provides humanitarian aid to disaster area

## General Specifications

### General Information

<b>LOA</b>	: 138.8 m
<b>Beam</b>	: 19.6 m
<b>Depth</b>	: 12.5 m
<b>Draft</b>	: Forward <1,9m/Aft<5,0m
<b>Displacement</b>	: 7.550 tons

### Performance

<b>Speed</b>	: 18+/15 kts
<b>Range</b>	: 5.000 NM
<b>Endurance</b>	: 10 Days with Marine unit 30 Days Crew only

### Accommodation

<b>Crew</b>	: 129
<b>Embarked Marines</b>	: 370

## Systems Configuration

### Propulsion System

#### Propulsion

Diesel Engines+  
Gear box+  
Shaft+CPP  
4 x Diesel Engines  
4 x 2.880 kW

### Navigation Systems

Navigation Radar,  
2 x Fiber Optic INS,  
WECDIS, DGPS,  
Echo Sounder,  
EM Log,  
LPI Radar,  
Ship Data Distribution System

### Combat Systems

#### Weapons

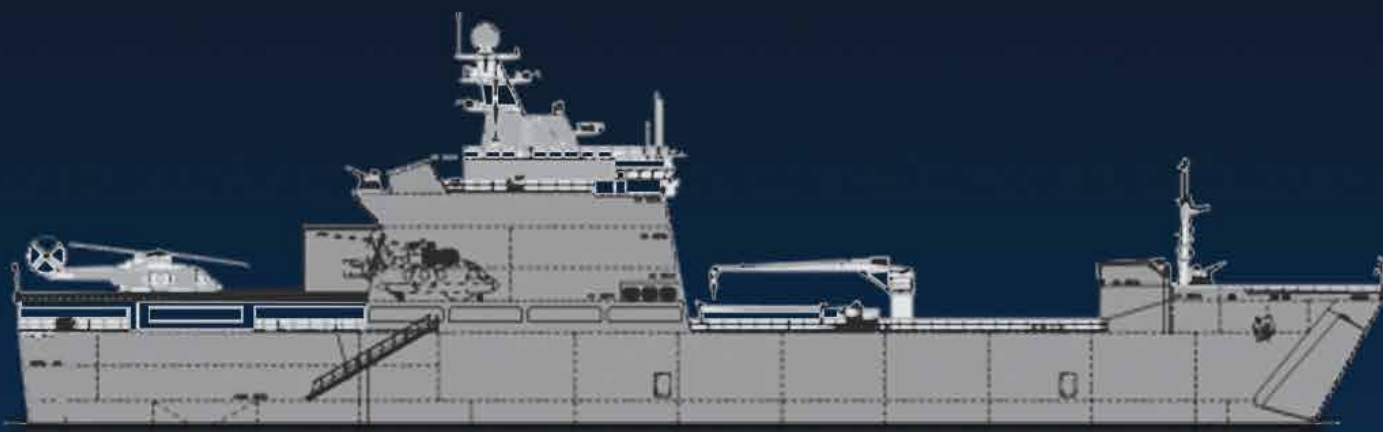
2 x 40 mm Main Guns  
2 x 12.7 mm STAMP  
2 x PHALANX, Torpedo,  
Decoy Launching System  
Countermeasure System (TCMS)

#### Sensors

2 x E/O Sensor, IRST, LWS,  
R-ESM, IFF, WAIS,  
Meteorological Sensors,  
3D Surveillance Radar

#### Communication

HF, UHF and VHF  
Military Communications  
SATCOM,  
Military Link System



# LST-120

## Landing Ship Tank



### Missions

#### Primary Missions

- To carry out amphibious operations and force deployment
- To land embarked vehicles, personnel with all their weapons, by bow door and ramp, LCVP, helicopter at Flight Deck or a combination of all these assets
- To Provide Emergency Medical and Life Support for LST embarked personnel

#### Secondary Missions

- To conduct large-scale humanitarian and disaster relief missions
- To be used as a healthcare and hospital support facility
- To land personnel, vehicles and supplies in ports and poorly equipped areas through on-board vessels

### General Specifications

#### General Information

<b>LOA</b>	: 120 m
<b>Beam</b>	: 19.6 m
<b>Depth</b>	: 12 m
<b>Draft</b>	: Forward <1.8m/Aft<4.1m
<b>Displacement</b>	: 6.000 tons

#### Performance

<b>Speed</b>	: 18+/14 kts
<b>Range</b>	: 3.500 NM
<b>Endurance</b>	: 10 Days with Marine unit 30 Days Crew only

#### Accommodation

<b>Crew</b>	: 164
<b>Helicopter Wing Personnel</b>	: 8
<b>Embarked Marines</b>	: 306

### Systems Configuration

#### Propulsion System

##### Propulsion

Diesel Engines+  
Gear box+Shaft+CPP  
2 x Diesel Engines

#### Navigation Systems

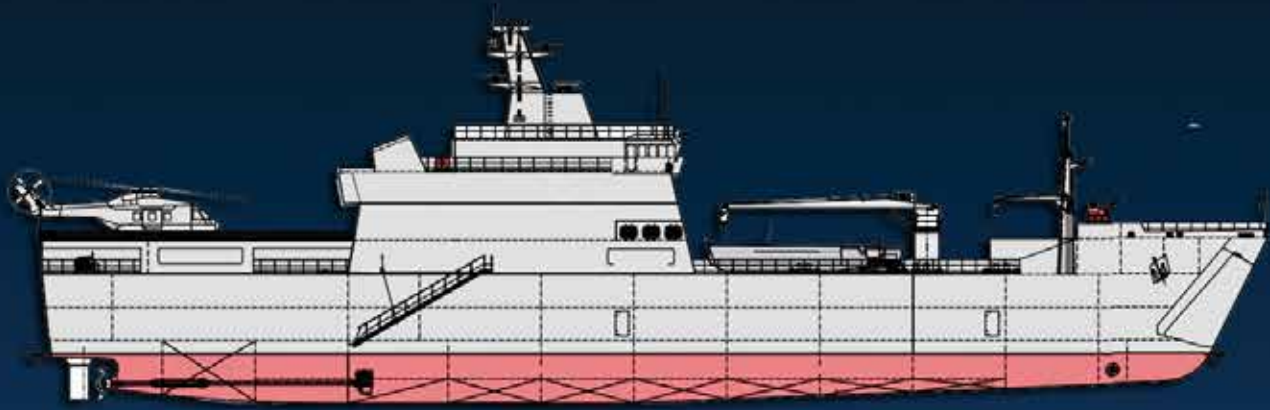
Navigation Radar,  
2 x Fiber Optic INS,  
WECDIS, DGPS  
Echo Sounder, EM Log  
Ship Data Distribution System

#### Combat Systems

**Weapons** 4 x 12.7 mm STAMP, 3xCIWS,  
Decoy Launching System

**Sensors** 3D AESA Surveillance Radar,  
LPI Radar, Fire control radar  
with E/O Sensor, EOD, LWS,  
R-ESM, IFF, WAIS,  
Meteorological sensors

**Communication** HF, UHF and VHF, Military  
Communications, SATCOM,  
Military Link System



# LST-100

## Landing Ship Tank



### Missions

#### Primary Missions

- The ship capable of carrying out various functions within Amphibious Operation such as transportation of troops and vehicles, Command & Control of Combined Joint Task Force
- To land embarked vehicles, personnel with all their weapons, by bow door and ramp
- Emergency Medical and Life Support for LST embarked personnel
- Land personnel, vehicles and supplies and poorly equipped areas through on-board vessels
- During Peace time, it provides humanitarian aid to disaster area

### General Specifications

#### General Information

<b>LOA</b>	: 100 m
<b>Beam</b>	: 16.25 m
<b>Depth</b>	: 12 m
<b>Draft</b>	: 4.16 m
<b>Displacement</b>	: 3.800 tons

#### Performance

<b>Speed</b>	: 18+/15 kts
<b>Range</b>	: 5.000 NM
<b>Endurance</b>	: 10 Days with Marine unit 30 Days Crew only

#### Accommodation

<b>Crew</b>	: 516
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### Systems Configuration

#### Propulsion System

##### Propulsion

CODAD Configuration with CPP  
4 x Diesel Engines

#### Navigation Systems

Navigation Radar (LPI),  
2 x Fiber Optic, INS,  
WECDIS, DGPS  
Echo Sounder, EM Log  
Ship Data Distribution System  
Meteorological sensors

#### Combat Systems

##### Weapons

2 x 40 mm Gun, 2 x 12.7 mm STAMP, 2 x PHALANX, Torpedo, Decoy Launching System, Countermeasure System (TCMS)

##### Sensors

3D Surveillance Radar, IRST, LWS, R-ESM, IFF, WAIS, Meteorological sensors

##### Communication

HF, UHF and VHF, SATCOM, Military Link System



# LSM-90

## Landing Ship Medium



### Missions

#### Primary Missions

- Carrying out transportation of troops and vehicles within Amphibious Operation

#### Secondary Missions

- During Peace time, provides various transportation tasks for military or civilian authorities and humanitarian aid to disaster area

### General Specifications

#### General Information

- LOA** : 90.1 m
- Beam** : 13.5 m
- Draft** : Forward <1.2 m / Aft <2.6 m
- Displacement** : 1.830 tons

#### Performance

- Speed** : 18+ / 16,5 kts

#### Accommodation

- Crew** : 23

### Systems Configuration

#### Propulsion System

##### Propulsion

- Diesel Engines+
- Gear box+Shaft+FPP
- 2 x Diesel Engines
- 2 x 4.000 kW

#### Navigation Systems

- Fiber Optic INS, WECDIS
- DGPS Echo Sounder
- EM Log

#### Combat Systems

##### Weapons

- 1 x 76 mm Main Gun
- 2 x 12.7 STAMP

##### Sensors

- E/O Sensor and Navigation Radar
- Meteorological sensors

##### Communication

- HF, UHF and VHF
- Military Communications

# LCT-80

## Landing Craft Tank



### Missions

#### Primary Missions

- Carrying out transportation of troops and vehicles within Amphibious Operation

#### Secondary Missions

- During peace time, provides various transportation tasks for military or civilian authorities and humanitarian aid to disaster area

### General Specifications

#### General Information

<b>LOA</b>	: 79.8 m
<b>Beam</b>	: 11.7 m
<b>Depth</b>	: 5.2 m
<b>Draft</b>	: Forward <1.0 m/Aft <2.5 m
<b>Displacement</b>	: 1.156 tons

#### Performance

<b>Speed</b>	: 18+/16.5 kts
<b>Range</b>	: 1.500 NM
<b>Endurance</b>	: 7 Days

#### Accommodation

<b>Crew</b>	: 24
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### Systems Configuration

#### Propulsion System

Diesel Engines+  
Gear box+Shaft+FPP  
2 x Diesel Engines  
2 x 2.320 kW

#### Navigation Systems

Fiber Optic INS  
WECDIS  
DGPS Echo Sounder  
EM Log  
Navigation Radar

#### Combat Systems

##### Weapons

2 x 25 mm Main Guns  
2 x 12.7 mm Gun

##### Sensors

E/O Sensor  
Meteorological sensors

##### Communication

HF, UHF and VHF  
Military Communications



# LCT-70

## Landing Craft Tank



### Missions

**Primary Missions**

- Carrying out transportation of troops and vehicles within Amphibious Operation

**Secondary Missions**

- During peace time, provides various transportation tasks for military or civilian authorities and humanitarian aid to disaster area

### General Specifications

**General Information**

- LOA** : 70.25 m
- Beam** : 11.7 m
- Depth** : 5.2 m
- Draft** : Forward <1.0 m/Aft <2.3 m

**Performance**

- Speed** : 15 kts

**Accommodation**

- Crew** : 22

### Systems Configuration

**Propulsion System**

**Propulsion**

- Diesel Engines
- Gear box+Shaft+FPP
- 2 x Diesel Engines
- 2 x 2.300 kW

**Navigation Systems**

- Navigation Radar
- Fiber Optic INS
- WECDIS
- DGPS Echo Sounder
- EM Log

**Combat Systems**

**Weapons**

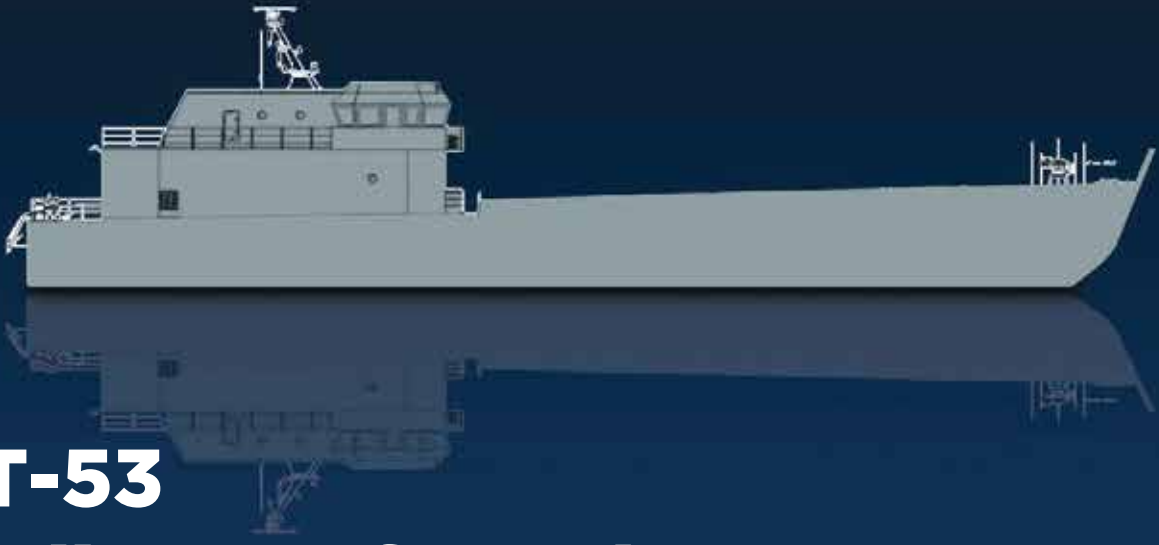
- 2 x 25 mm Main Guns
- 2 x 12.7 mm Gun

**Sensors**

- E/O Sensor
- Meteorological sensors

**Communication**

- HF, UHF and VHF
- Military Communications



# LCT-53

## Landing Craft Tank



### Missions

#### Primary Missions

- Carrying out transportation of troops and vehicles within Amphibious Operation

#### Secondary Missions

- During peace time, provides various transportation tasks for military or civilian authorities and humanitarian aid to disaster area

### General Specifications

#### General Information

<b>LOA</b>	: 53 m
<b>Beam</b>	: 9 m
<b>Depth</b>	: 2.75 m
<b>Displacement</b>	: 385 tons

#### Performance

<b>Speed</b>	: 18 kts
<b>Range</b>	: 400 NM

#### Accommodation

<b>Crew</b>	: 14
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### Systems Configuration

#### Propulsion System

##### Propulsion

- Diesel Engines+
- Gear box+Water Jet unit
- 2 x Marine Diesel Engines

#### Navigation Systems

- Navigation Radar
- Chart Plotter
- GPS, AIS
- Digital Magnetic Compass
- Gyro Compass
- Echo Sounder
- ECDIS

#### Combat Systems

##### Weapons

- 2 x 12.7 mm STAMP

##### Sensors

- E/O Sensor
- IFF

##### Communication

- HF, UHF and VHF
- Military Communications



# LCM-40 Landing Craft Mechanised



## Missions

- Carrying out medium range transportation of troops and vehicles between ship to shore within Amphibious operation or various sea side locations (e.g beaches, military bases, ports, petrol platforms) during peace time.

## General Specifications

### General Information

**LOA** : 40 m  
**Beam** : 9.2 m  
**Draft** : Forward <0.9 m  
**Displacement** : 294 tons

### Performance

**Speed** : 18 kts  
**Range** : > 400 NM

### Accommodation

**Crew** : 5

## Systems Configuration

### Propulsion System

#### Propulsion

Diesel Engines+  
 Gear box+Water jet unit  
 2 x Marine Diesel Engines

### Navigation Systems

Navigation Radar  
 Chart Plotter, GPS  
 AIS  
 Digital Magnetic compass  
 Gyro Compass  
 Echo Sounder  
 ECDIS

### Combat Systems

#### Weapons

2 x 12.7 mm Gun

#### Sensors

Light Weight E/O Sensor

#### Communication

UHF / VHF and Portable HF  
 Military Communications

# LCM-30

## Landing Craft Mechanised



### Missions

- Carrying out medium range transportation of troops and vehicles between ship to shore within Amphibious operation or various sea side locations (e.g beaches, military bases, ports, petrol platforms) during peace time.

### General Specifications

#### General Information

<b>LOA</b>	: 30 m
<b>Beam</b>	: 7 m
<b>Draft</b>	: Forward <0.75 m
<b>Displacement</b>	: 139 tons

#### Performance

<b>Speed</b>	: 20+ kts
<b>Range</b>	: > 200 NM

#### Accommodation

<b>Crew</b>	: 3
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### Systems Configuration

#### Propulsion System

##### Propulsion

- Diesel Engines+
- Gear box+Water jet unit
- 2 x Marine Diesel Engines

#### Navigation Systems

- Navigation Radar
- Chart Plotter, GPS
- AIS
- Digital Magnetic compass
- Gyro Compass
- Echo Sounder
- ECDIS

#### Combat Systems

##### Weapons

- 2 x 12.7 mm Gun

##### Sensors

- Light Weight E/O Sensor

##### Communication

- UHF / VHF and Portable HF Military Communications



# LCM-26 Landing Craft Mechanised



## Missions

- Carrying out medium range transportation of troops and vehicles between ship to shore within Amphibious operation or various sea side locations (e.g beaches, military bases, ports, petrol platforms) during peace time.

## General Specifications

### General Information

<b>LOA</b>	: 25.9 m
<b>Beam</b>	: 6.9 m
<b>Depth</b>	: 1.95/1.6 m
<b>Draft</b>	: 1.16 m
<b>Displacement</b>	: 150.3 tons

### Performance

<b>Speed</b>	: 40/23 kts
<b>Range</b>	: 190 NM

### Accommodation

<b>Crew</b>	: 3
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## Systems Configuration

### Propulsion System

#### Propulsion

- 2 x Waterjets
- 2 x Marine Diesel
- 2 x 1.213 kW

### Navigation Systems

- Navigation Radar
- DGPS
- Gyro & Magnetic
- Compass

### Combat Systems

#### Weapons

- 2 x 7.62 mm Machine Guns

#### Communication

- VHF-IMM
- Communication System
- V/UHF Communication System



# LCVP-16

## Landing Craft Vehicle Personnel



### Missions

- Carrying out medium range transportation of troops and vehicles between ship to shore within Amphibious operation or various sea side locations (e.g beaches, military bases, ports, petrol platforms) during peace time.

### General Specifications

#### General Information

<b>LOA</b>	: 15.7 m
<b>Beam</b>	: 4.4 m
<b>Draft</b>	: Forward < 0.5 m
<b>Displacement</b>	: 23 tons

#### Performance

<b>Speed</b>	: 40/23 kts
<b>Range</b>	: > 200 NM with 15 kts speed

#### Accommodation

<b>Crew</b>	: 3
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### Systems Configuration

#### Propulsion System

##### Propulsion

Diesel Engines+  
Gear box+Water jet unit  
2 x Marine Diesel Engines

#### Navigation Systems

Magnetic compass  
GPS  
Short Range  
Yacht Radar

#### Combat Systems

##### Weapons

2 x 12.7 mm Machine Guns

##### Communication

Hand Held VHF Radio



# **FRT-200**

## **Fleet Replenishment Tanker**



## Missions

### Primary Missions

- Replenishment at Sea with solid sand liquids
- Helicopter operations including HIFR and VERTREP operations
- Medical support
- Humanitarian assistance
- Fight against piracy
- Natural disaster aid
- Search and rescue
- Non-combatant evacuation operation

### Secondary Missions

- Replenishment at Sea with solid sand liquids
- Sea air operations
- Amphibious operations support
- Training

## General Specifications

### General Information

<b>LOA</b>	: 199 m
<b>Beam</b>	: 25 m
<b>Depth</b>	: 11 m
<b>Draft</b>	: 7.2 m
<b>Displacement</b>	: 22.000 tons

### Performance

<b>Speed</b>	: +24/14 kts
<b>Range</b>	: 4.500 NM
<b>Endurance</b>	: 30 days for 326 personnel 120 days for 80 personnel

### Accommodation

<b>Crew</b>	: 165
<b>Mission Personnel (HRF &amp; Joint Forces)</b>	: 56
<b>Maintenance &amp; Repair Team or Cadets</b>	: 105

## Systems Configuration

### Propulsion Systems

#### Propulsion

- CODOG-E
- 2 x 23.000 KW Gas Turbine
- 2 x 8.000 KW Diesel Engines
- 2 x CPP
- 1000 KW Bow Thruster

#### GENSET

- 4x 1240 KW Diesel Generator Set

### Navigation Systems

- Navigation Radars (S-Band and X-Band)
- Auto Pilot
- Magnetic Compass
- Gyro Compass
- WECDIS
- WAIS
- Digital Plotting Table
- GPS
- Echosounder
- EM Log

### Combat Systems

#### Weapons

- 1 x 25 mm Gun
- 2 x CIWS GOKDENİZ

#### Sensors

- Combat Management System (CMS)
- Ship Data Distribution System (SDDS)
- 3D Radar
- Helicopter Control Radar
- Meteorological Measurement System
- Electro Optic (E/O) System
- IFF
- TACAN

#### Communication

- HF, UHF and VHF Military Communications,
- Integrated Communication System
- SATCOM
- Military Link System



# FD-170 Floating Dock



## Missions

- Docking of all kinds of surface ships and submarines

## General Specifications

### General Information

<b>LOA</b>	: 170 m
<b>Beam</b>	: 43 m
<b>Depth</b>	: 18.5 m
<b>Draft</b>	: 4.3/14.5 m

### Performance

<b>Docking Capacity</b>	: 10.000 tons
<b>Lifting Time at max. lifting load</b>	: 1.5 hour (approx.)
<b>Sinking Time (empty drydock)</b>	: 1 hour (approx.)
<b>Pumps</b>	: 6 x 4.300 m <sup>3</sup> /h

### Accommodation

<b>Crew</b>	: 43
<b>Docking Personnel</b>	: 6



# FD-160 Floating Dock



## Missions

- Docking of all kinds of surface ships and submarines

## General Specifications

### General Information

<b>LOA</b>	: 160 m
<b>Beam</b>	: 37.5 m
<b>Depth</b>	: 13.5 m
<b>Draft</b>	: 12 m
<b>Displacement</b>	: 5.400 tons

### Performance

<b>Docking Capacity:</b>	11.500 tons
<b>Lifting Time at max. lifting load</b>	: 2 hour (approx.)
<b>Pumps</b>	: 4 x 1.100 m <sup>3</sup> /h + 4 x 2.000 m <sup>3</sup> /h

### Accommodation

<b>Crew</b>	: 20
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