



نافدكس NAVDEX

كتيب نافدكس NAVDEX BROCHURE

20 - 24 FEBRUARY 2023 فبراير 20 - 24

ABU DHABI - UAE

navdex.ae

أبوظبي، الإمارات العربية المتحدة

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NAVDEX 2023 Welcome Message

On behalf of the Naval Committee, Military Leadership, our Patrons, and Sponsors, I would like to take this opportunity to warmly welcome you to the Naval Defence Exhibition (NAVDEX 2023) in Abu Dhabi.

This year, the exhibition will showcase various naval defence systems, maritime security equipment's, and all military cooperation from many worldwide defence-related contractors.

Furthermore, the exhibition will include dynamic displays on the waterfront alongside the exhibition centre and the numerous static and interactive stands within the building and across the Arabian Gulf waters. NAVDEX 2023 is proud to welcome all official delegations and visiting ships company to Abu Dhabi.

Alongside the exhibition, the NAVDEX defence conference will discuss a broad spectrum of issues and tasks of the maritime defence industry and the latest technologies. Key insights and trends will be provided by experts from several countries- regionally and internationally.

This visitors Guide will provide you with the venue layout and details for demonstrated boats at the live show that will take place during the exhibition. Furthermore, We encourage all our guests to take the opportunity to pay a visit to all participating ships at the jetty by registering at the "ship visit" office.

Finally, I would like to thank all the staff at ADNEC, IDEX and NAVDEX who have contributed towards ensuring that NAVDEX 2023 is both constructive and informative as well as being an enjoyable and rewarding experience.

Brigadier General Rashid Ibrahim Rashid Al-Mahisni
Chairman of the Naval Committee for
Naval Defence Exhibition - NAVDEX 2023

الكلمة الترحيبية لنافدكس 2023

نيابة عن اللجنة المنظمة لمعرض الدفاع البحري والقوات البحرية لدولة الإمارات العربية المتحدة، والرعاة، أود أن أغتنم هذه الفرصة لأرحب بكم في معرض ومؤتمر الدفاع البحري "نافدكس 2023" في أبوظبي.

وباعتباره منصة متكاملة لعرض أحدث التقنيات والأنظمة الدفاعية البحرية، وأرضية متخصصة للقاء بين المصنعين والمشغلين، يشهد نافدكس هذا العام مشاركة واسعة لشركات كبرى من حول العالم والمتخصصة في الصناعات الدفاعية البحرية لعرض أحدث ما لديهم المعدات والتقنيات والحلول الأمنية البحرية.

وسيشهد معرض "نافدكس" هذا العام منصات عرض ثابتة في صالات العرض الداخلية، وكذلك فعاليات وعروض حية وزيارات للسفن والقطع البحرية الرئيسية على الرصيف البحري الممتد على صفحة مياه الخليج العربي مقابل مركز أبوظبي الوطني للمعارض.

وبستقبل "نافدكس" هذا العام العديد من الوفود الرسمية من مختلف دول العالم، وكذلك قطاع بحرية مهمة من الدول الشقيقة والصديقة لدولة الإمارات العربية المتحدة.

وسوف نستعرض في هذه المطبوعة الخاصة بمعرض ومؤتمر الدفاع البحري "نافدكس 2023"، صوراً ومعلومات عن السفن الزائرة وكذلك أبرز المعارضات والعروض الحية التي ستقام على الواجهة البحرية. كما يمكن للضيوف وزوار المعرض زيارة القطع البحرية الزائرة عبر تسجيل بياناتهم لدى "مكتب تسجيل زيارة السفن".

وسيناقش مؤتمر الدفاع البحري المصاحب للمعرض طيفاً واسعاً من قضايا ومهام الدفاع البحري وأحدث التقنيات في هذا المجال الهام من خلال عدة أوراق يقدمها متخصصون من عدد دول تمت دعوتهم للاسهام برؤاهم ودراساتهم الحديثة في هذا المؤتمر

وختاماً، أود أن أتوجه بالشكر لجميع العاملين في شركة أبوظبي الوطنية للمعارض (أدنيك)، والقائمين على معرض ومؤتمر الدفاع الدولي آيدكس 2023 ومنظمين معرض "نافدكس" الذين كان لهم الفضل بعد الله سبحانه وتعالى في تنظيم هذا الحدث الدولي الرائع بما يليق بمكانة دولة الإمارات العربية المتحدة في ظل قيادتها الرشيدة

العميد بحري / راشد إبراهيم راشد المحيسني
رئيس اللجنة البحرية لمعرض الدفاع البحري – نافدكس 2023



PAKISTAN
PAKISTAN NAVY SHIP PNS YARMOOK
CLASS (F-271)



Class and type: Yarmook class Corvettes (OPV)

Length: 91.3 m

Beam: 14.4 m

Draught: 4 M

Speed: 23 KTS

Propulsion: 4 x Caterpillar engines

Armament: 30 mm gun
12.7 mm heavy machine guns
Anti-ship missiles
CIWS



UNITED ARAB EMIRATES
UAE COAST GUARD P5003 MUDHAFAR



Class and type: Patrol Vessel

Length: 50 M

Beam: 9.4 M

Draught: 3.5 M

Speed: 22 KTS

Propulsion: 4 x MTU diesel engines

Armament: 30 MM Main Gun
LOGIR Missile
12.7 MM



UNITED KINGDOM
U.K. NAVY M109 HMS BANGOR



Class and type: Sandown-class minehunter

Length: 52.2 M

Beam: 10.9 M

Draught: 2.3 M

Speed: 13 KTS

Propulsion: 2 × diesels 1523 hp, diesel-electric drive

Armament: 30mm DS30M Mk2 gun

Miniguns

General purpose machine guns



UNITED ARAB EMIRATES
UAE COAST GUARD P5002 MISBAR



Class and type: Patrol Vessel

Length: 50 M

Beam: 9.4 M

Draught: 3.5 M

Speed: 22 KTS

Propulsion: 4 × MTU diesel engines

Armament: 30 MM Main Gun

LOGIR Missile

12.7 MM



BAHRAIN
BAHRAIN NAVY SHIP MASHHOOR



Class and type: FPB35 Patrol Vessel

Length: 35.06 m

Beam: 7.25 M

Draught: 2.59 M

Speed: 35 KTS

Propulsion: 3 x MTU diesel engines

Armament: 25mm Aselsan Stamp gun

MK 93 .50 cal MGs

UNITED ARAB EMIRATES

**ABU DHABI ENVIRONMENT AGENCY
(JAYWUN)**



Class and type: Research Ship

Length: 50 M

Beam: 12 M

Draught: 4.2 M

Speed: 15 KTS

Propulsion: 2 x diesel engines

Equipped: Laboratories

ROV

CTD



UNITED ARAB EMIRATES
UAE NAVY L73 TUNB AL KUBRAA



Class and type: Landing Craft

Length: 70 M

Beam: 14 M

Draught: 2.5 M

Speed: 10 KTS

Propulsion: 2 x MTU 12V4000M3 Diesels

Armament: 30 MM

LOGIR Missile



UNITED ARAB EMIRATES
ALFATTAN SHIP INDUSTRY SUHAILA



Class and type: Transporter

Length: 99.65 M

Breadth: 16.5 M

Draught: 2.88 m

Pax Capacity: 1500 Pax.

Vehicle capacity: 170 - 195



UNITED ARAB EMIRATES ALFATTAN SHIP INDUSTRY FLOATING DOCK

ON WATER EXHIBITERS



Class and type: Floating Dock (Rina)

Length: 105.7 M

Breadth: 40 M

Draught: 2.7 M

GRT: 4621 ton

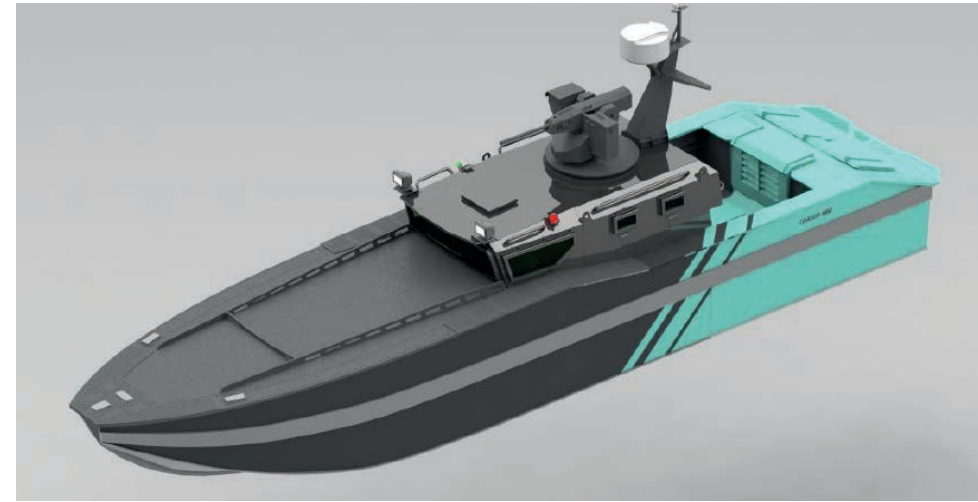
Deck Load: 10 t/m²





UNITED ARAB EMIRATES
ALFATAN SHIP INDUSTRY

UZBEKISTAN
AKSUM MARINE BOATS (CHASER 980B6)



PRINCIPAL PARTICULARS

LENGTH OVERALL	20.00 m
LENGTH HULL	18.50 m
DESIGN DRAFT	1.00 m
DEPTH	2.50 m
BEAM OA	4.30 m
FULL LOAD DISPLACEMENT	31.00 Tonnes
HULL/STRUCTURE	FRP (Fiber-Reinforced Plastic)
MAX SPEED	32 Knots
DIESEL CAPACITY	3,000 Liters
FRESH WATER CAPACITY	200 Liters
PROPULSION	Inboard Marine Diesel Engine/ Gearbox Coupled with Waterjet

ARMAMENTS

1 x Remote Weapon System (RWS)
2 x 12.7mm Machine Gun (Port & Stbd)
1 x Ready to received NLS (Logir Launcher)

CREW & TROOP SEATING

4 x SHOXS 2000 (Captain/ Crew)
16 x SHOXS 2000 (Inside)
8 x SHOXS 5105, (Outside)
4 x SHOXS 5605 (Outside)

Length: 10,650 MM

Beam: 2,330 M M

Crew and Passengers: 6 (2 Crew + 4 Passengers)

Boat weight without engines: 4,500 kg

Range: 100 nautical mile (service speed 20...25* Knot)

Engines: Electric motor 2500 N*m

Max. Speed: 30...35* Knot

Armoring: Armored Cabin (all sides and glasses). Ballistic steel and glass CEN Level B6 (EN1063)



UZBEKISTAN
AKSUM MARINE BOATS (CHASER 1200B6)



Length: 12,970 mm

Beam: 3,030 mm

Crew and Passengers: 12 (2 Crew + 10 Passengers)

Boat weight without engines: 10,300 kg

Range: 200 nautical mile (service speed 30...35* Knot) 300 nautical mile (optional)

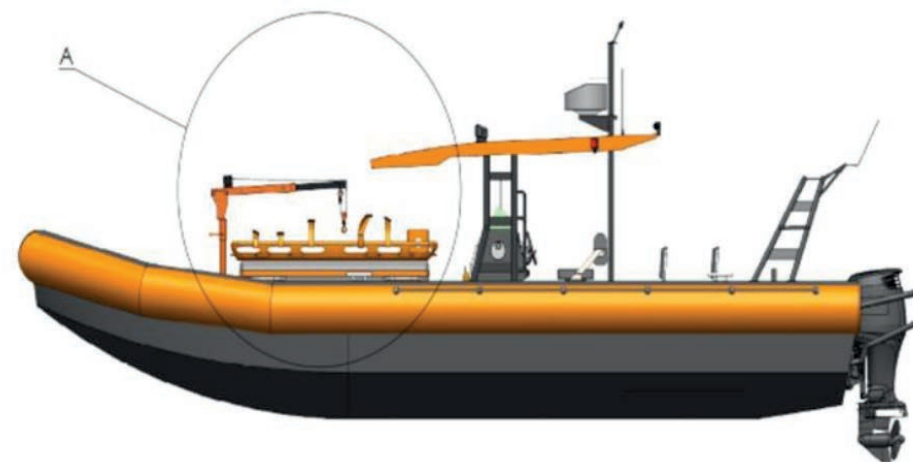
Engines: 400 HP x 3 Mercury Verado

Max. Speed: 45...50* Knot

Armoring: Armored Cabin (all sides and glasses). Ballistic steel and glass CEN Level B6 (EN1063)



UZBEKISTAN
BAYNUNAH



Length: 10,770 mm

Beam: 2,700 mm

Crew and Passengers: 14 (1 Crew + 13 Passengers)

Boat weight without engines: 3,200 kg

Range: 150...200 nautical miles (service speed 30...35* Knot)

Engines: 350 HP x 2 Mercury Verado (Petrol/Diesel option is available)

Max. Speed: 45...50* Knot



UZBEKISTAN
AKSUM MARINE BOATS (FALCON 1000)



UNITED ARAB EMIRATES
ADSB INTERCEPTOR



Length: 10,750 mm

Beam: 3,000 mm

Crew and Passengers: Drone boat

Boat weight without engines: 2500 kg

Range: 150 nautical mile (service speed 30...35* Knot)

Engines: 350 HP x 2 Mercury Verado (Petrol/Diesel option is available).

Max. Speed: 50...60* Knot

TECHNICAL DATA

LOA	16M
BEAM OA	4,10M
DRAFT	0,85M APPROX.
LOAD DISPLACEMENT	15T APPROX.
SPEED	45+ KN APPROX. @ FULL LOAD (SEA STATE 1)
COMPLEMENT	10 CREW
DIESEL	400L
PETROL	2200L
FRESHWATER	88L

MACHINERY

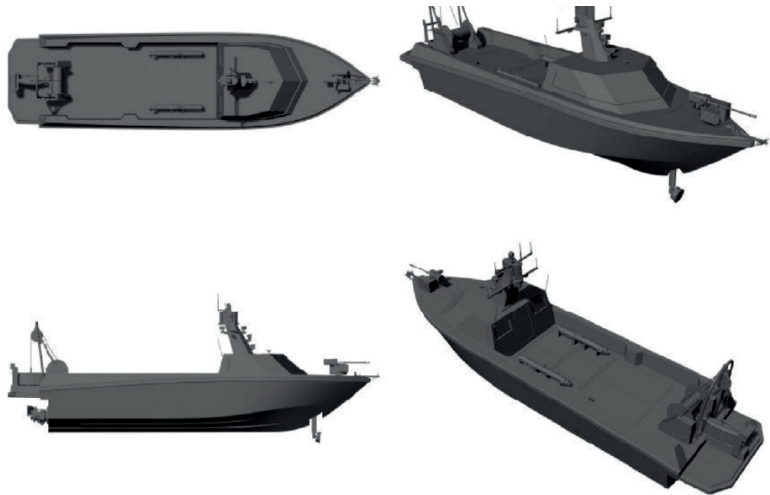
PROPULSION	4 X 350HP OUTBOARD ENGINES
GENERATOR	1 X 12KW

WEAPONS (FTR)

2 X 7.62 MM GUN AFT
2 X 7.62 MM GUN FORWARD
1 X MANUAL OR RWS 12.7 MM TOP OF CABIN



UNITED ARAB EMIRATES ADSB ADSB 170 DETECTOR USV



TECHNICAL DATA

LOA:	17.4m
BOA:	4.2m
Draft:	0.85m approx.
Complement (manned):	4 crew

MACHINERY

ENGINES:	2 x 900 hp diesel engines
PROPULSION:	2 x waterjets
GENERATOR:	1 x 17 kW
BATTERY:	1 set of lithium batteries

PERFORMANCE

ELECTRIC MODE RANGE:	4 hours (speed 5kt)
MAX SPEED (diesel mode):	40kt



UNITED ARAB EMIRATES MILKOR MN



Hull	Catamaran	Hydrofoil-Assisted
	Material	Fiber Reinforced Composite
	Length Overall	12m
	Beam	4.8m
	Displacement	13 000kg
	Fuel Capacity	2000 L Main tanks
	Diesel Capacity	400 L
	Draught amidships (full load 13.4 Tons)	0.863 m
Maximum Range	Overall	650NM – 750 NM
Maximum Endurance	Overall	5 Days
Propulsion	450 HP outboard Engines	2
	Top Speed	50 kts
	Typical Cruise (Sea state 1 & 2)	30 – 40 kts
	Typical Cruise (Sea state 3 & 4)	25 – 30kts
	Loiter	7 kts
Crew	Captain/ Helmsman station	4
Seats	High back Shock Absorbing (200mm stroke)	4
Accommodation	Hot bunking - Sleeping births	3
	Galley	1
	Head and shower	1
Weapons	40mm Automatic Grenade Launcher	1
	12.7mm remotely operated stabilized weapon – roof mounted	1
Nautical Equipment	Chirp Radar	1
	Automatic Identification System	1
	Global Positioning System	1
	Depth Sonar	1
Surveillance Equipment	Stabilized EO/IR gimble	1
Communication	Very high frequency (VHF) radio	1
	Single-sided modulation (SBB) radio	1
	Foghorn	1

UNITED ARAB EMIRATES

A45 (4.6T RECONNAISSANCE & ATTACK USV)

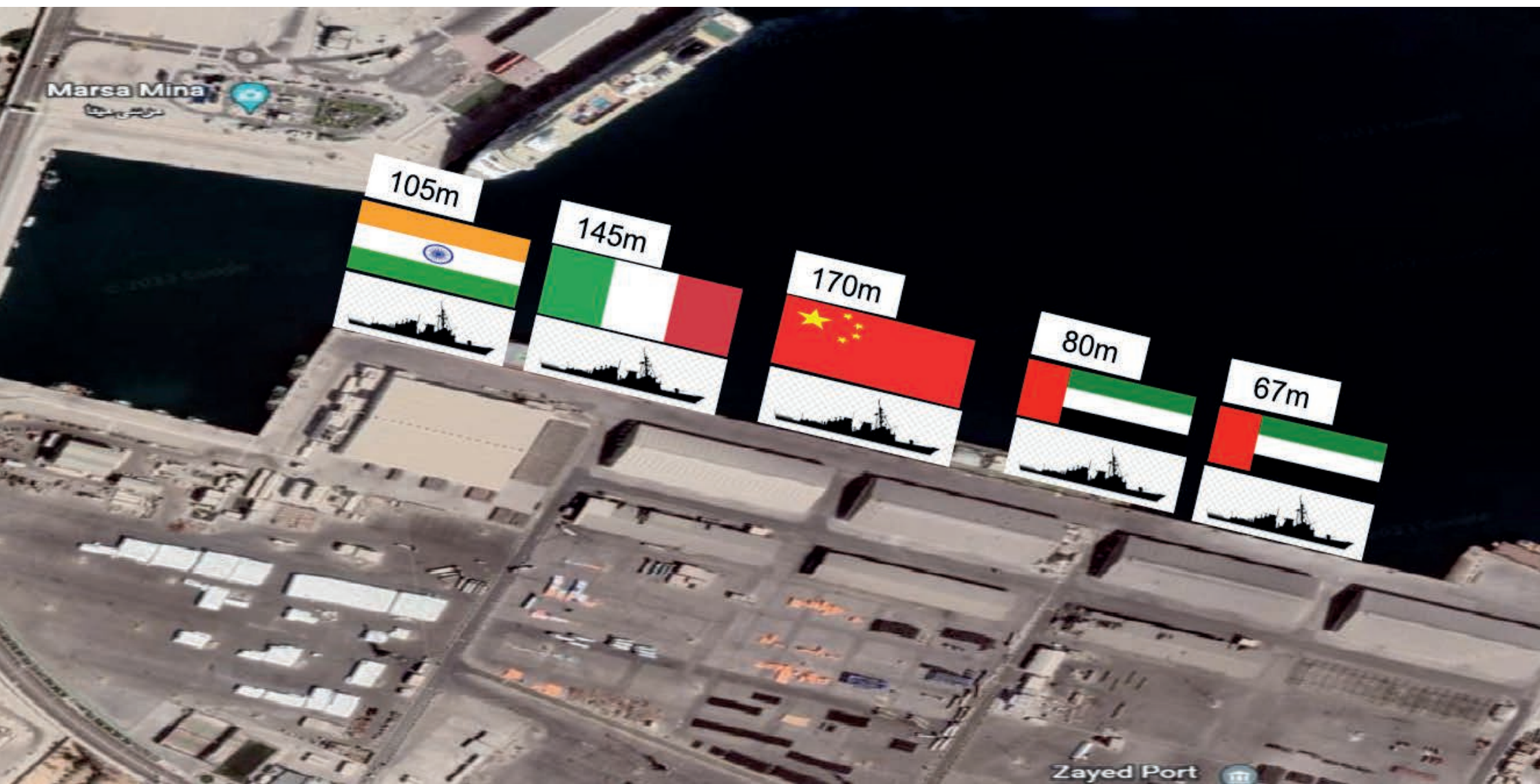


General	
Structure	Aluminium alloy hull
Basic functions	Patrol, guard, surveillance & reconnaissance, rescue and transit around the mother ships, harbors, base stations and islands Anti-piracy, anti-smuggling, anti-trafficking of drugs and weapons, and anti-illegal fishing
Feature	Surface targets attack Autonomous navigation, autonomous obstacle avoidance, swarm operation, stealth shape, maximum speed 40kn
Dimensions	
Length Overall	~7.5m
Moulded Breadth	~2.6m
Moulded Depth	~1.15m
Normal Displacement	~4.6t
Designed Draft	~0.6m
Tank Capacities	
Fuel Oil	~700L
Performances	
Max. Speed	~40kn
Range	280n mile @ 25kn Cruising speed
Endurance	11h
Control distance	Remote control: 2km Private network control: 20km Satellite communication: No limit
Seakeeping	Up to sea state 4 (Use weapon system effectively) Up to sea state 5 (Safe navigation at low speed)
Insubmersibility	Stay afloat with any single cabin damaged
Anti-jamming capability	Frequency hopping communication anti-jamming
Communication encryption	Equipped with communication encryption equipment
Emergency response	Options such as "continue mission", "autonomous return" and "stop" can be set
Propulsion System	
Main Engines	2x~205kW, Steyr Diesel
Propeller	2xJet pump
Electrical Equipment	
Generator	1x~2.8kW

LIVE DEMONSTRATION ALLOCATION

Time	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5
1130 - 1135	CDC				
1135 – 1140	DMP				
1140 - 1145	Zamil				
1145 - 1150	STREIT GROUP	CDC	CDC	CDC	CDC
1150 - 1155	IGG	DMP	DMP	DMP	DMP
1155 - 1200	Al Fattan Ship Industry	Poly technology	Milkor	Desert power	Poly technology
1200 - 1205	ADSB	Zamil	STREIT GROUP	Aksum	Zamil
1205 - 1210	Poly technology	Milkor	IGG	ADSB	milkor
1210 - 1215	Milkor	STREIT GROUP	ADSB	Al Fattan Ship Industry	STREIT GROUP
1215 - 1220	Desert power	IGG	Desert power	ALSEER MARINE	IGG
1220 - 1225	Aksum	Poly technology	Aksum	Poly technology	Desert power
1225 - 1230	ADSB	Aksum	ADSB	Zamil	Aksum
1230 - 1235		ADSB	Al Fattan Ship Industry	Milkor	ADSB
1235 - 1240		Al Fattan Ship Industry	Poly technology	STREIT GROUP	Al Fattan Ship Industry
1240 - 1245		Desert power	Zamil	IGG	Poly technology
NOTE: Only (5) min is allocated for the live demonstration, Additional (20) min is allocated as per prior reservation.					

MINA ZAYED





UNITED ARAB EMIRATES
UAE COAST GUARD P6701 ARIALAH



Class and type: Arialah class Corvettes (OPV)

Length: 67 M

Beam: 11 M

Draught: 4.5 M

Speed: 20 KTS

Propulsion: 4 × MTU diesel engines

Armament: 57 MM Main GUN

30 MM

RAM Missiles

12.7 MM



UNITED ARAB EMIRATES
UAE NAVY A81 ALQUWAISAT



Class and type: Multi purpose vessel (LST)

Length: 80 M

Beam: 16.8 M

Draught: 4 m

Speed: 10 knots

Propulsion: 2 × Cummins diesel engines

Armament: 12.7 mm Main GUN



CHINA
PEOPLE'S REPUBLIC OF CHINA NANNING



Class and type: 052D Guided missile destroyer

Displacement: 7500 T

Length: 165 M

Beam: 19 M

Draught: 7.5 M

Speed: 31 KTS

Propulsion: CODOG 2x GT25000 2x MTU 956

Armament: 1x130mm gun

2x8 Anti-air missiles

24 Anti-air missiles

2x8 Anti-ship missiles

2x3 Torpedo

1x30mm CIWS

INDIA

INDIAN NAVY SHIP INS SUMEDHA (P58)



Class and type: Saryu-class patrol vessel (OPV)

Length: 105 M

Beam: 12.9 M

Draught: 4.9 m

Speed: 25 knots

Propulsion: 1 x 32 MW, Gas Turbine, 2 x 2.2 MW EPM

Armament: 76 mm/62 Oto Melara gun

30 mm/65 AK-630 CIWS

ITALY
ITALIAN NAVY CARLO BERGAMINI (F 590)



Class and type: Frigate Anti-submarine warfare (ASW)

Length: 144 M

Beam: 19.7 M

Draught: 5.1 M

Speed: 27 KTS

Propulsion: 1 x 32 MW - Gas Turbine - 2 x 2.2 MW EPM

Armament: 76 mm Gun Strales

25 mm machine guns

27 mm Gun

Anti-ship missiles

Torpedo Launching System

FIRST DAY 1

Monday 20 February 2023

DETAILS	LOCATION	TIMING
Exhibitor Access to IDEX & NAVDEX	Marina Hall	06:30 – 08:30
Members of Delegations Arrival	ADNEC	08:00 – 08:45
Visitors Arrival	ADNEC	08:00 - 09:00
Arrival of Head of Delegations and VIPs	ADNEC	08:45 – 09:30
Guest of Honour Arrival	ADNEC	10:00
Guest of Honor Greeting	ADNEC	10:10 – 10:50
Official Opening and tour of IDEX	ADNEC	11:00 – 12:20
Official opening and tour of NAVDEX	ADNEC /Marina	11:30 – 12:30
Official Lunch	Conference Room A	12:30 – 13:30
Al Fursan Display	ADNEC Grandstand	13:45 – 14:15
NAVDEX Live Demonstrations	ADNEC /Marina	14:15 – 15:15
Daily Press Conference	ADNEC	15:00 – 15:30
MoD Band Show in IDEX	ADNEC	16:00 – 16:30
AD Police Band Show in NAVDEX	Marina Hall	16:00 – 16:30
End of Day 1	ADNEC/ Marina Hall	17:00

SECOND DAY 2

Tuesday 21 February 2023

DETAILS	LOCATION	TIMING
Exhibitor Access to IDEX & NAVDEX	Marina Hall	07:30 - 08:30
IDEX & NAVDEX Open for Delegations & Visitors	ADNEC	09:00 - 17:00
IDEX & NAVDEX Talks	ADNEC	10:00 - 15:30
IDEX Next_Gen Pitch stage Contest	ADNEC	10:00 - 15:00
UAE Worthness & Saftey Conference	ADNEC	10:45 - 14:50
Inaugration of Madhfar Boat	ADNEC /Marina	11:00 - 11:30
NAVDEX Live Demonstrations	ADNEC /Marina	11:45 - 12:45
IDEX Live Demonstrations	ADNEC	13:30 - 14:30
AI Fursan Display	ADNEC Grandstand	14:30 - 15:00
Daily Press Conference	ADNEC	15:00 - 15:30
MoD Band Show in NAVDEX	Marina Hall	16:00 - 16:30
AD Police Band Show in IDEX	ADNEC	16:00 - 16:30
End of Day 2	ADNEC/ Marina Hall	17:00
Gala Dinner	Erth Hotel	19:00 - 22:00

THIRD DAY 3

Wednesday 22 February 2023

DETAILS	LOCATION	TIMING الوقت
Exhibitor Access to IDEX & NAVDEX	ADNEC /Marina	07:30 - 08:30
IDEX & NAVDEX Open for Delegations & Visitors	ADNEC	09:00 - 17:00
IDEX & NAVDEX Talks	ADNEC	10:30 - 13:30
IDEX Next_Gen Pitch stage Contest	ADNEC	10:00 - 15:00
UAE Worthness & Saftey Conference	ADNEC	10:45 - 14:15
Inaugration of Tunb Al Kubra Ship	ADNEC /Marina	11:00 - 11:30
NAVDEX Live Demonstrations	ADNEC /Marina	11:45 - 12:45
IDEX Live Demonstrations	ADNEC Grandstand	13:30 - 14:30
AI Fursan Display	ADNEC Grandstand	14:30 - 15:00
Daily Press Conference	ADNEC	15:00 - 15:30
MoD Band Show in IDEX	ADNEC	16:00 - 16:30
AD Police Band Show in NAVDEX	Marina Hall	16:00 - 16:30
End of Day 3	ADNEC/ Marina Hall	17:00

FOURTH DAY 4

Thursday 23 February 2023

DETAILS	LOCATION	TIMING
Exhibitor Access to IDEX & NAVDEX	ADNEC /Marina	07:30 - 08:30
IDEX & NAVDEX Open for Delegations & Visitors	ADNEC	09:00 - 17:00
IDEX & NAVDEX Talks	ADNEC	10:30 - 13:30
IDEX Next_Gen Pitch stage Contest	ADNEC	10:00 - 15:00
Inaugration of Masbar Boat	ADNEC /Marina	11:00 - 11:30
NAVDEX Live Demonstrations	ADNEC /Marina	11:45 - 12:45
IDEX Live Demonstrations	ADNEC Grandstand	13:30 - 14:30
AI Fursan Display	ADNEC Grandstand	14:30 - 15:00
Daily Press Conference	ADNEC	15:00 - 15:30
MoD Band Show in NAVDEX	Marina Hall	16:00 - 16:30
AD Police Band Show in IDEX	ADNEC	16:00 - 16:30
End of Day 4	ADNEC/ Marina Hall	17:00

FIFTH DAY 5

Friday 24 February 2023

DETAILS	LOCATION	TIMING
Exhibitor Access to IDEX & NAVDEX	ADNEC /Marina	07:30 - 08:30
IDEX & NAVDEX Open for Delegations & Visitors	ADNEC	09:00 - 17:00
NAVDEX Live Demonstrations	ADNEC /Marina	10:30 - 11:30
IDEX Live Demonstrations	ADNEC Grandstand	11:45 - 12:45
Daily Press Conference	ADNEC	14:00 - 15:00
AI Fursan Display	ADNEC Grandstand	14:15 - 14:45
MoD Band Show in IDEX	ADNEC	16:00 - 17:00
AD Police Band Show in NAVDEX	Marina Hall	16:00 - 17:00
End of Day 5	ADNEC/ Marina Hall	17:00