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INDONESIA DEFENSE MAGAZINE

HISTORY

Mendur brothers: The photographers who captured the nation's defining moments in history

SPECIAL REPORT

A SELF-RELIANT DEFENSE INDUSTRY TO ACHIEVE A STRONG INDONESIAN DEFENSE POSTURE

Interview with Kaharuddin Djenod, President Director of PT PAL

INDONESIA DEFENSE MAGAZINE
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PAL INDONESIA



NAVAL SHIPBUILDING

(LPD) LANDING PLATFORM DOCK

"LPD (Landing Platform Dock) is a PT PAL Indonesia (Persero) naval military trademark which rendered to undergo either military or non military operations such as disaster relief and humanitarian assistance".



NAVAL SHIPBUILDING

KCR (KAPAL CEPAT RUDAL) 60M GUIDED-MISSILE FAST ATTACK CRAF

"An agile seakeeping ship to patrol and to move quickly. It is also equipped with defensive capabilities to secure Indonesian maritime territory."

PT PAL Indonesia (Persero)

- New Shipbuilding
- Maintenance, Repair & Overhaul
- General Engineering
- Submarine
- Technology & Development

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Submarine Rescue
Products and Services

Introduction

JFD offers a portfolio of submarine rescue products and services and has been an integral part of submarine rescue projects around the world since 1983.

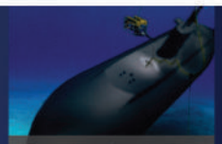
Our capabilities extend to design, manufacture, operations and support.




DSAR Class Submarine Rescue Vehicle


Launch & Recovery Systems

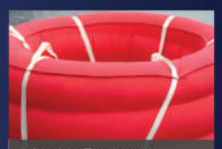

Multi-Role Launch and Recovery System


Atmosphere Sampler & DSVDS


Intervention ROV


Intervention & Rescue Targets


ELSS Pods & Bags


Inflatable Freeboard Extender (IFE)


Offshore Operations Training


Vessel of Opportunity Database

DSAR Class Submarine
Rescue Vehicle

Introduction

The Deep Search & Rescue (DSAR) Class submarine rescue vehicle is the latest rescue submersible from JFD. The SRV design builds upon more than 25 years of submarine rescue operations.

JFD's submarine rescue vehicles are currently in operation with:

- The Republic of Singapore Navy
- The Republic of Korea Navy
- The Royal Australian Navy

Key features include:

- Intregrated skirt
- Lightest in Class at 22.5 tonnes
- Optimised for transportability
- 60° mating capability


ROKS-DSRV-II in operation onboard the Republic of Korea's Cheong Hae Jin


DSAR-6 in operation onboard Singapore's Swift Rescue


DSAR Class Rescue Vehicle demonstrates ability to mate at 60°

Specification

Rescue Capability

Operational Endurance	> 12 hours
Emergency Life Support	> 96 hours
Maximum Mating Angle	60°
Rescue Payload	1,200 kg
Air Transportability	C17 or similar

DSAR Class submarine rescue vehicles have a typical maximum dive depth of 500m. If required this can be increased to 700m.

Principle Particulars

Length	9.6m
Beam	3.2m
Depth	2.7m
In Air Weight	22.5 tonnes, in **610**m configuration
Main Propulsion	2 x 10kW electric
Auxiliary Propulsion	4 x 3kW hydraulic

Electrical System

Battery System	Fully-redundant Lithium Polymer
System Voltage	120V / 24V with 24V emergency supply
Navigation	Integrated Navigation Suite
Automation	Autopilot, Autodepth, Altitude & Heading Hold
Communications	Through-water audio & data
Logging	Video, comms and data logging for review and training

Design Standards

Classification	Classed to Lloyd's Register Rules and Regulations for Classification of Submersibles.
Pressure Vessel Code	PD5500:2009 Specification for Unfired Fusion Welded Pressure Vessels
Mating Skirt	NATO ANEP/MNEP 85 compliant



Dear readers,

Welcome to the 11th Edition of **Indonesia Defense Magazine.** It was approximately one year after our publication commenced that humankind entered the global medical emergency that shows no sign of abating, despite huge efforts by all countries to prevent infections and alleviate the suffering of the afflicted.

Since Covid-19 was identified as a new illness in late 2019, medical science, technology, and practice have had to scramble to find solutions to deal with it. Major pharmaceutical companies have developed emergency-approved drugs to combat the virus's more catastrophic effects; nonetheless, mass immunization has only partially relieved misery. It is theorized that if 70% of the world's population is vaccinated, a "herd immunity" will develop; more recently, some countries have openly admitted they will have to live with the virus because it has not been eradicated – rather, even those who have been vaccinated are contracting the Delta and other variants.

This has in Indonesia as in many other nations underscored the vital role the professional armed forces play in supporting public health campaigns, in their "Military Operations Other Than War" (MOOTW) drives, today primarily in support of civil authorities responding to domestic crises arising from the Coronavirus pandemic.

Unprecedented natural disasters are sweeping all continents: uncontrollable wildfires in Europe, the United States, and Australia; record flooding in areas of Germany, China, and the United States' Northeast that were ill-prepared to face them; and heat waves resulting in widespread public health tragedies in tropical countries. Climate change is no longer "controversial", and fewer and fewer influential figures around the world are denying its reality, and threat.

This is the context in which global power shifts are underway; the GNP of the People's Republic of China is set to overtake that of the USA, as its blue-water navy makes a power grab in the South China Sea.

The United States' sudden decision to stop its "forever wars" and hand over Afghanistan to the same Taliban that drew it there in the first place has alarmed allies, who are questioning America's and NATO's commitment to "mutual defense." A multi-trillion-dollar military adventure has ended even more ignominiously than the earlier Soviet withdrawal: the Soviets at least left a friendly government in place, which clung to power for another three years, whereas the Americans and their NATO allies simply got up and ran, abandoning billions of dollars in military hardware in an undignified, chaotic retreat.

Tensions remain high between China, Asia's rising superpower, and the United States of America, whose economic decline is only being slowed by the world's reliance on the "petro-dollar" as a universally-accepted reserve currency. Furthermore, an ongoing dispute between Australia and the People's Republic of China (PRC) shows no signs of resolution, with the former accusing the latter of using "money politics" and other techniques to assert control. A multibillion-dollar export enterprise to China has been halted, at least temporarily.

The Republic of Indonesia is attentively observing such developments, as it defines and resets its growing profile in world events: its admirable peace-keeping efforts in Africa have garnered new respect from counterparts everywhere.

In an increasingly unpredictable global scenario, self-reliance in defense matters is of urgent concern, and this issue of **Indonesia Defense Magazine** deals with the untiring efforts of the Ministry of Defense to nurture and inspire our native designers and manufacturers, increasingly looking at export markets for its competitive land- and sea-going defense hardware.

This issue is rich with content, with twenty articles covering a variety of interests:

- Indonesian Independence Day celebrations across the archipelago, as our Republic marks its 76th anniversary
- TNI AD and the US Army conduct the largest joint military exercise, codenamed "15th Garuda Shield" in South Sumatra, East Kalimantan and North Sulawesi
- The two Mendur brothers' photography capture momentous events during Indonesia's struggle for independence
- Expanded infrastructure in the outer islands, particularly a toll road network that will support the move to a new capital city in Kalimantan
- The KRI Golok-688, a domestically-manufactured warship that signifies Indonesia's newfound marine manufacturing dynamism
- Technology and innovation as key elements in the move to defense self-reliance, in an essay from Air Vice Marshal TNI Yusuf Jauhari
- The visit of the HMAS Canberra and HMAS Anzac to Indonesia, highlighting the mutual defense efforts and friendly relationship we have with Australia
- …and others.

We hope you enjoy reading our journal. Meanwhile, Stay Safe and Keep Healthy!

Irawan Ronodipuro



Editor-in-Chief

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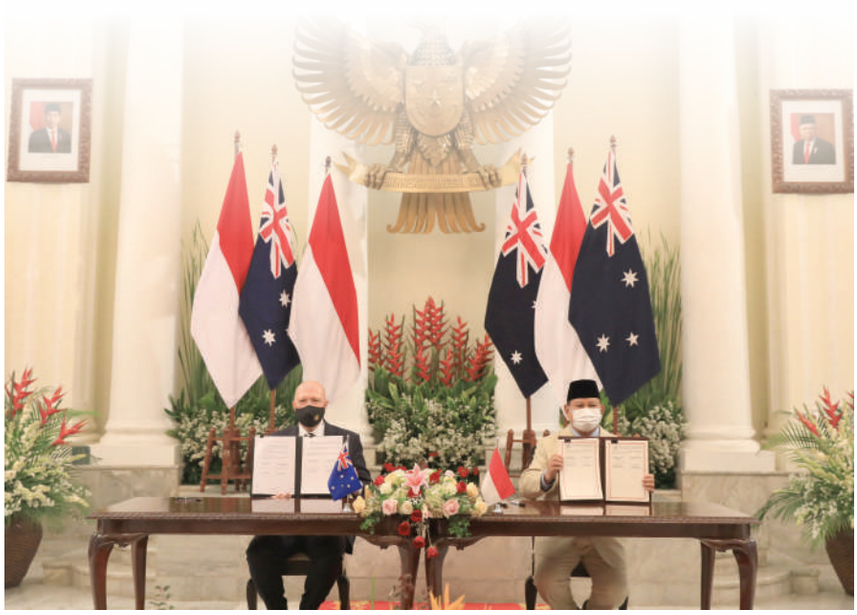
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This flag photo was taken on August 16, 2021 to commemorate the 76th anniversary of the Independence of the Republic of Indonesia. This photo is used as a cover to illustrate the spirit of the independence of the Republic of Indonesia.

Photo by: Bachren Lukskardinul

DOK. PT PAL

KEMANDIRIAN INDUSTRI PERTAHANAN

WUJUDKAN PERTAHANAN INDONESIA YANG KUAT



Kemandirian industri pertahanan menjadi salah satu unsur pendukung terwujudnya sistem pertahanan negara yang kuat dan mandiri. Asa kemandirian itu diharapkan dapat membantu Indonesia untuk memenuhi kebutuhan Alat utama sistem persenjataan (Alutsista) yang dibutuhkan oleh Tentara Nasional Indonesia (TNI).

Perawatan rutin Kapal Bantu Rumah Sakit (BRS) DR. Wahidin Soedirohusodo-991

Tidak hanya itu, selain kekuatan militer, negara dengan industri pertahanan yang mapan cenderung dinilai memiliki sebuah keuntungan strategis dalam tatanan global. Dalam konteks interaksi global, kemandirian industri pertahanan juga dapat meningkatkan posisi daya tawar sekaligus *deterrence effect* bagi Indonesia.

3 buah Pesawat Intai (Drone) yang berhasil diproduksi secara mandiri oleh prajurit Pusat Penerbangan Angkatan Laut (Puspenerbal).

Rencana Strategis dan Investasi Pertahanan

Mewujudkan asa kemandirian industri pertahanan memang tidak mudah. Menteri Pertahanan (Menhan) Prabowo Subianto menegaskan bahwa Rencana Strategis (Renstra) memang harus dipersiapkan. Lebih lanjut Menhan Prabowo menambahkan bahwa Renstra tersebut dapat dijadikan sebagai

