



# DEFENCE DIVING

[www.smp-ltd.com](http://www.smp-ltd.com)





# OUR VALUES

# WHAT WE DO



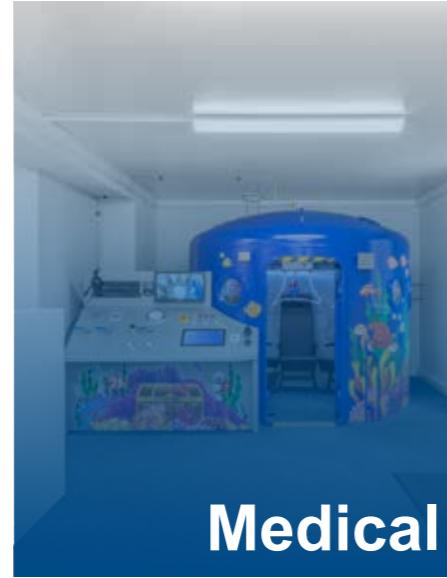
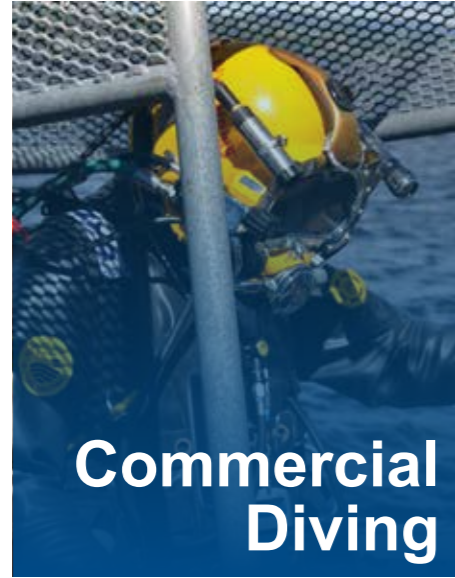
SMP has solidified its position as a pioneer in the realm of underwater technology, catering to the distinct needs of both the commercial and defence diving sectors. With a profound commitment to innovation, we specialise in providing cutting-edge solutions across the domains of diving, submarine rescue, and subsea technology. Our consistent track record of delivery has enabled us to extend our reach to countries across every continent, setting new standards for the industry in terms of capability, quality, and reliability.

As we continue to expand our global presence, SMP operates on a truly international scale. Our offerings encompass a vast and diverse range of products, services, and sustained support solutions, tailored to meet the multifaceted requirements of various government entities. From coast guards to naval forces, law enforcement agencies, and beyond, SMP remains dedicated to equipping these organisations with the tools and technologies they need to excel in their respective missions, ensuring the safety and security of our marine environments.



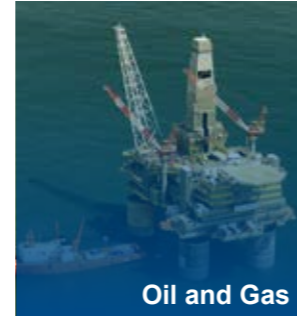
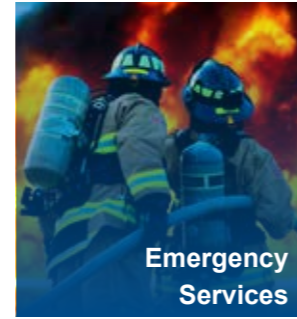
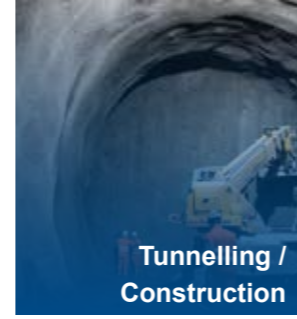
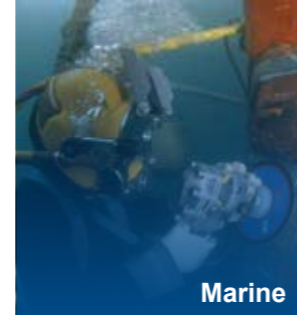
- D** **Driven** - At SMP we have the drive not only to make high quality systems but also to make the industry safer for the personnel who operate in it. The drive to innovate has made us a globally recognised name for state of the art solutions.
- E** **Efficient** - Our experience and knowledge allows us to design and manufacture state of the art solutions much more efficiently and effectively. We are able to transfer the knowledge from a multitude of previous projects to use in new projects to quickly and effectively create solutions to our clients' requirements.
- P** **Professional** – With a long established history and a range of past projects, SMP are able to provide professional advice and solutions based on many years of knowledge and experience. SMP are members of various organisations including IMCA, ADC, and SMERWG.
- T** **Thorough** – We pride ourselves on our attention to detail. SMP want to create a system that meets the clients unique requirements whilst also solving all of the problems they face.
- H** **Hard Working** – SMP endeavour to create only the best solutions for our clients. We work closely with the client to understand all of the problems they face and what they want to achieve from a system. Our team can travel to meet clients face to face at their premises.

# OUR MARKETS



SMP have a long established history in the Commercial Diving industry. Since our founding in 1985, we have expanded into adjacent markets and industries. We now operate in many global market sectors including Military, Marine, Renewables. Nuclear, Tunnelling and Medical Industries, with clients across the world.

We are always increasing the set of markets we serve as we bolster the solutions we manufacture. We thrive on innovating our systems to work in even more unique ways to tailor them to the bespoke needs of each sector.



# PROJECTS ARE MADE BY PEOPLE AND EXPERTISE



People are the primary asset of every business and SMP is no different. We are proud to be a strong and diverse team dedicated to delivering the very best to our clients. SMP focuses on continual development, investing in the latest training, support, tools and techniques to achieve outstanding results on a consistent basis.

Over our long history we have been involved in a range of different projects. These projects have been in a variety of industries and have spanned across the globe.

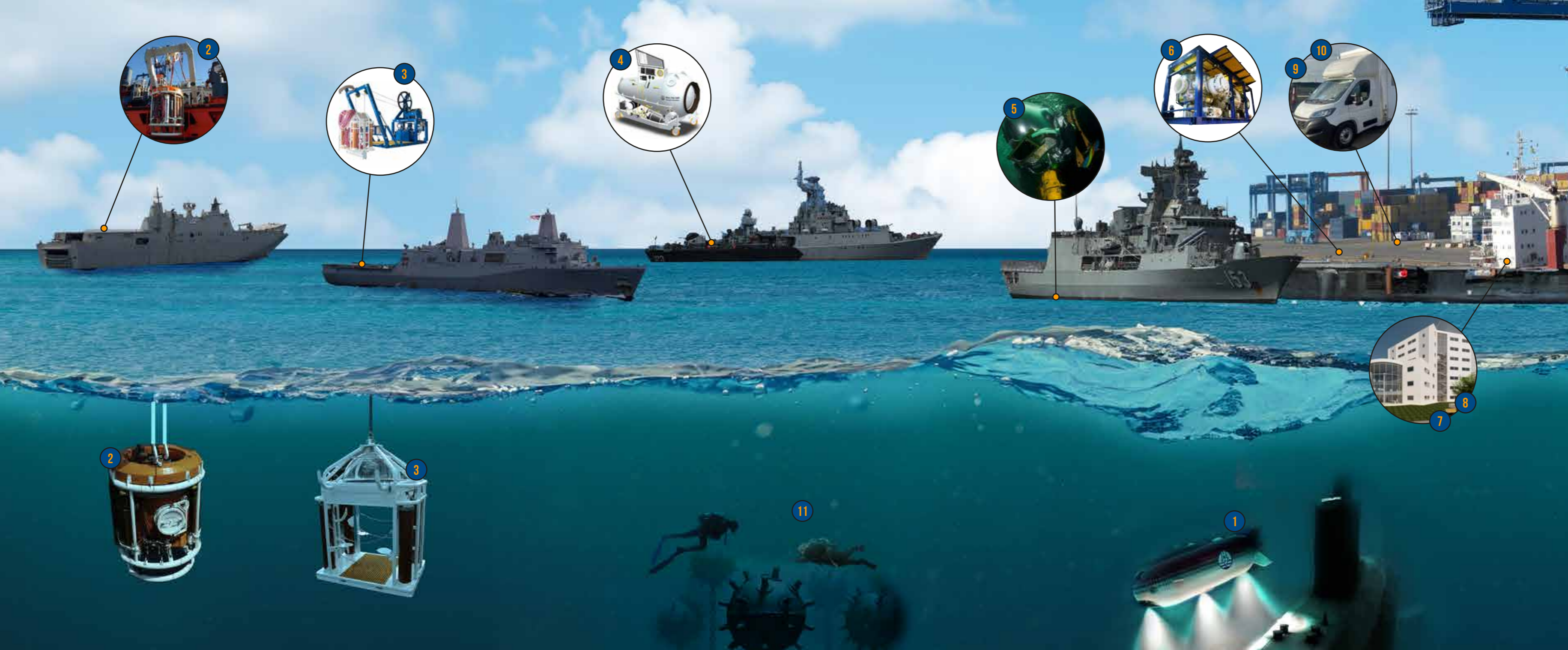


# NAVY DIVING

SMP have worked with multiple navy organisations, supplying them with a range of different underwater technologies. These technologies have been used in an array of different operations.

These systems include:

1. Submarine Rescue Vehicles
2. Saturation Diving Systems
3. Wet Bell LARS
4. Transportable Chambers
5. Equipment Maintenance
6. Hyperbaric Reception Facilities
7. Submarine Escape Facilities
8. Diving Research Facilities
9. Mobile Diving Chambers
10. Mobile Diving Systems
11. Defence Divers





# ARMY DIVING

SMP have worked with military organisations, offering various equipment to use for inshore operations.

This equipment includes:

- 1. Contaminated Water Diving
- 2. Mobile Diving Systems
- 3. Equipment Recovery
- 4. Underwater Construction and Repair
- 5. Diving Research Facilities
- 6. ROVs
- 7. Transportable Decompression Chambers
- 8. Support vehicles





# SUBMARINE RESCUE

In the unfortunate event of a submarine encountering distress or experiencing disabling issues, it is imperative that immediate and critical support becomes available. This support is made possible through a range of cutting-edge systems and methods that have been developed by SMP. Our innovative Submarine Rescue Systems stand at the forefront of subsea engineering, serving as a lifeline to submariners facing emergency situations. These systems encompass a wide array of capabilities, all designed to ensure the safety and well-being of submariners in perilous circumstances.

Our submarine rescue systems include:

- SRV-F Mk 3 Rescue Vehicle
- SRV-F Mini Rescue Vehicle
- SEVDS - Submarine Emergency Ventilation and Decompression System
- TUP - Transfer Under Pressure
- ROVs - Remotely Operated Vehicles

SMP's Submarine Rescue Systems encompass a comprehensive suite of technologies and procedures that are absolutely critical to ensuring the safety and survival of submariners in emergency situations. Our commitment to advancing subsea engineering and our dedication to the safety of those who serve in submarines make us a trusted partner in safeguarding lives beneath the waves.



**Air Transport**  
The SRV-F Mk 3 can be transported via aircraft, allowing more of a rapid response to a situation.



Compatible aircraft:  
A400  
C5  
C17  
AN 124  
747 nose loader



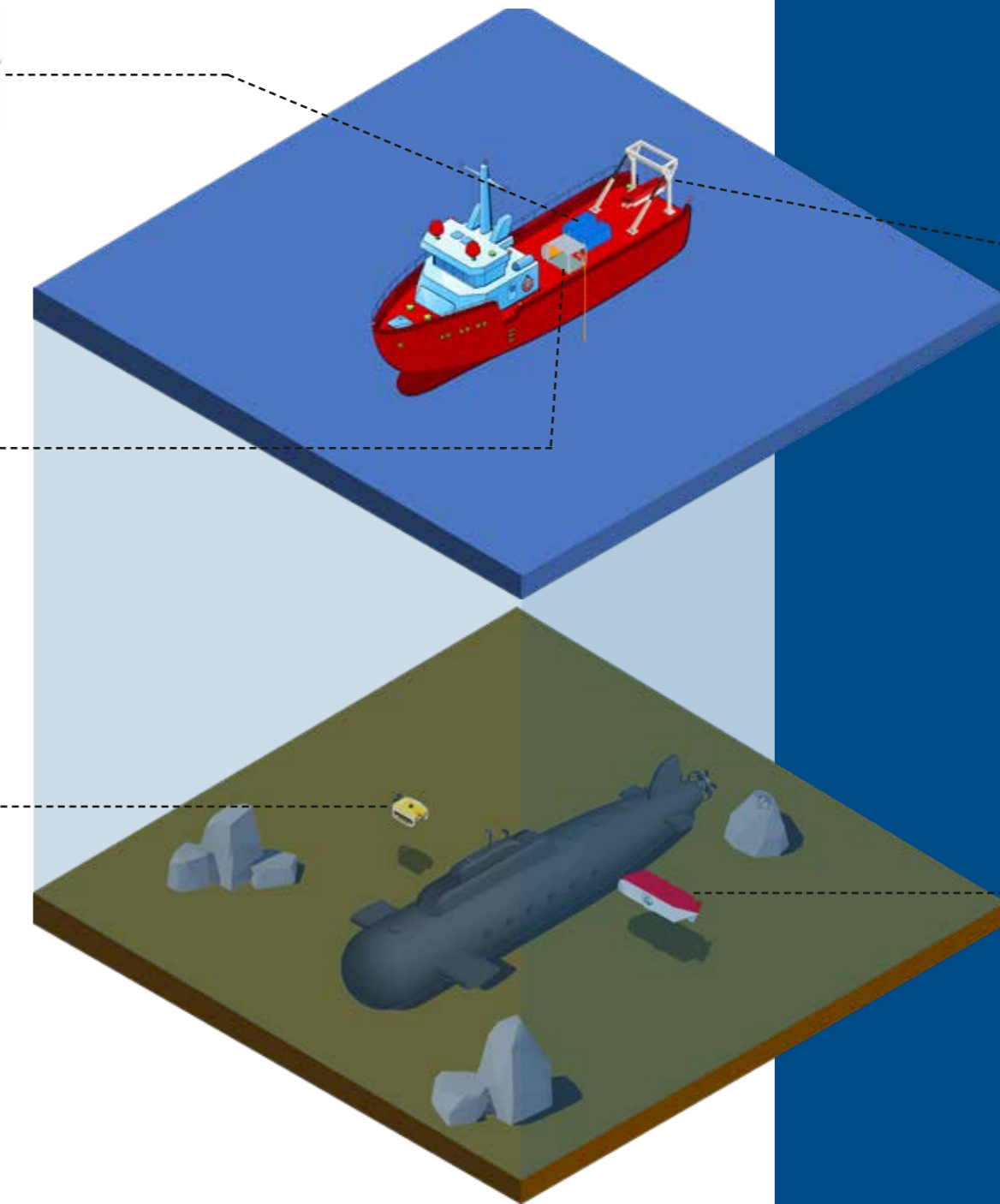
**Support Containers**  
Machinery containers can be fitted with supporting equipment such as HP compressors, gas cylinder banks, and more.



**SEVDS**  
The Submarine Emergency Ventilation and Decompression System is a vital part of submarine rescue situation. This system can ventilate and decompress a distressed submarine.



**ROV**  
Remotely operated vehicles provide support in submarine rescue situations, allowing for reconnaissance of the area.



**SRV Launch System**  
A-Frame launch and recovery system for the submarine rescue vehicle optimised for rapid deployment to military and commercial vessels of opportunity.



**SRV-F Mk 3**  
The SRV-F Mk 3 submarine rescue vehicle is the latest innovation in rescue solutions. This SRV has the capacity for 50 submariners and 3 crew members.



**FROM HUB TO  
MISSION READY  
WITHIN 48 HRS**

# SUBMARINE RESCUE SYSTEMS

## SOLUTIONS THAT SAVE LIVES

In the event of a submarine becoming distressed or disabled, urgent critical support needs to be made available through the use of emergency response systems and procedures. SMP's innovative Submarine Rescue Systems represent the pinnacle of subsea engineering, providing a crucial lifeline to submariners in emergency situations. From DISSUB Ventilation, Submariner Free Accent Recovery and Recompression, Transfer Under Pressure Decompression (TUP) to subsea Remotely Operated Vehicles (ROV), free swimming Submarine Rescue Vehicles (SRV) and Atmospheric Diving (ADS), our specialist equipment represents a critical aspect of submarine operational safety.

SMP follow the 'One Out All Out' philosophy, we understand that the number one priority in the event of a submarine rescue is the safe extraction of all personnel from a DISSUB. To achieve this we provide bespoke equipment to interface with the escape infrastructure installed within submarines - where submariners have exited the submarine by Free Accent we provide surface medical treatment and decompression facilities, where underwater Transfer Under Pressure is a safer exit method, we provide Submarine Rescue Vehicles (SRVs) for the transfer of occupants from the DISSUB to a ship based decompression complex.

# ONE OUT, ALL OUT



## SRV-F MK 3 (Submarine Rescue Vehicle)

Introducing the new submarine rescue vehicle, from the team that created LR5 and the DSAR range of rescue vehicles.

The SRV-F Mk3 is a free swimming manned submersible capable of untethered rescue operations to depths over 500m. This SRV is operated by 3 crew members and has a rescue chamber capacity of 50 submariners per dive.

Connection to the DISSUB is achieved by the NATO ANEP MNEP 85 / 85.1 compliant mating skirt complete with innovative soft seal capable of mating to the DISSUB at angles of up to 45 degrees.



SRV-F MK 3 Specifications:

- Displacement: 50 Tonnes
- Battery: Advanced Lithium polymer technology
- Transfer Under Pressures (TUP) Capabilities: @ 50 msw
- Compatible with LARS System: Up to 3.5m significant wave height
- Battery Endurance: ≥ 12 hours (normal operation)
- Equipped with Emergency Surfacing Method: Yes
- Through water speed (own propulsion): 3 knots
- Max towing speed: 7 knots
- Rescue chamber capacity: 50 rescuees



SRV-F Mini Specifications:

- Displacement: 30 Tonnes
- Battery: Advanced Lithium polymer technology
- Transfer Under Pressures (TUP) Capabilities: @ 50 msw
- Compatible with LARS System: Up to 3.5m significant wave height
- Battery Endurance: ≥ 12 hours (normal operation)
- Equipped with Emergency Surfacing Method: Yes
- Through water speed (own propulsion): 3 knots
- Max towing speed: 7 knots
- Rescue chamber capacity: 17 rescuees



## SUBMARINE EMERGENCY VENTILATION AND DECOMPRESSION SYSTEM (SEVDS)

The Submarine Emergency Ventilation and Decompression System (SEVDS) is a surface supplied umbilical linked system with the primary objective of sustaining life on a distressed submarine (DISSUB).

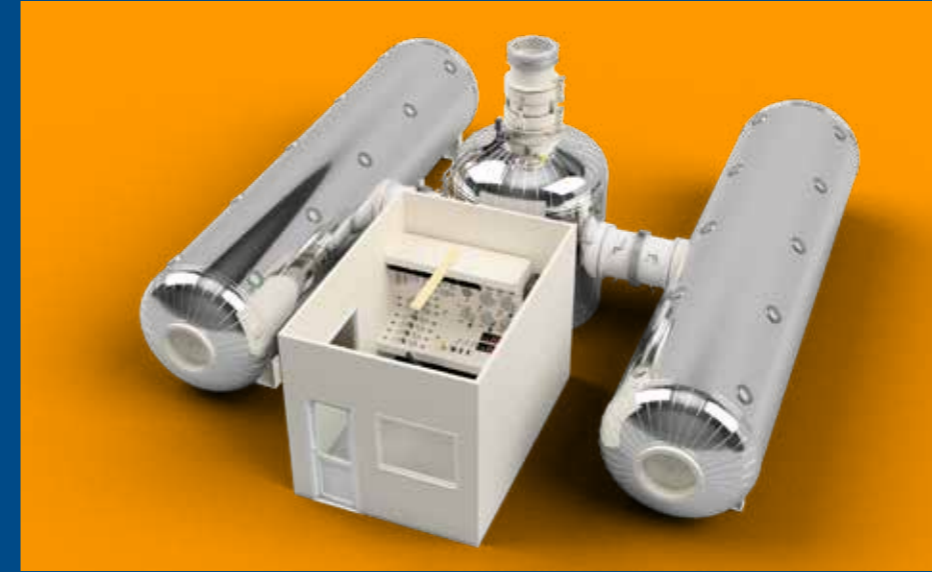
The system continually monitors and controls the atmospheric conditions of the DISSUB by sampling and analysing the contents of the DISSUB and responding by exhausting the contents and / or supplying breathing air from the surface to the DISSUB in order to stabilise levels of oxygen and carbon dioxide and make safe the internal pressure of the submarine. This intervention maintains a safer environment for the occupants

of the DISSUB and connected to the submarine by ROV, ADS or diver intervention.



The major components of the SEVDS are:

- Control Container
- Machinery Container
- Umbilical Winch Package
- Subsea Control Module (SCM)
- 2 x 16 Cylinder HP Air Quads



## TRANSFER UNDER PRESSURE AND DECOMPRESSION CHAMBER

The Transfer Under Pressure (TUP) System, an innovative creation by SMP, stands as a cutting-edge closed bell diving system. This system, renowned for its mobility and modular design, can be efficiently deployed on various support vessels or Fixed Platforms. Its versatility is evident as it seamlessly operates both over the side and through moonpools, showcasing its adaptability to diverse underwater environments.

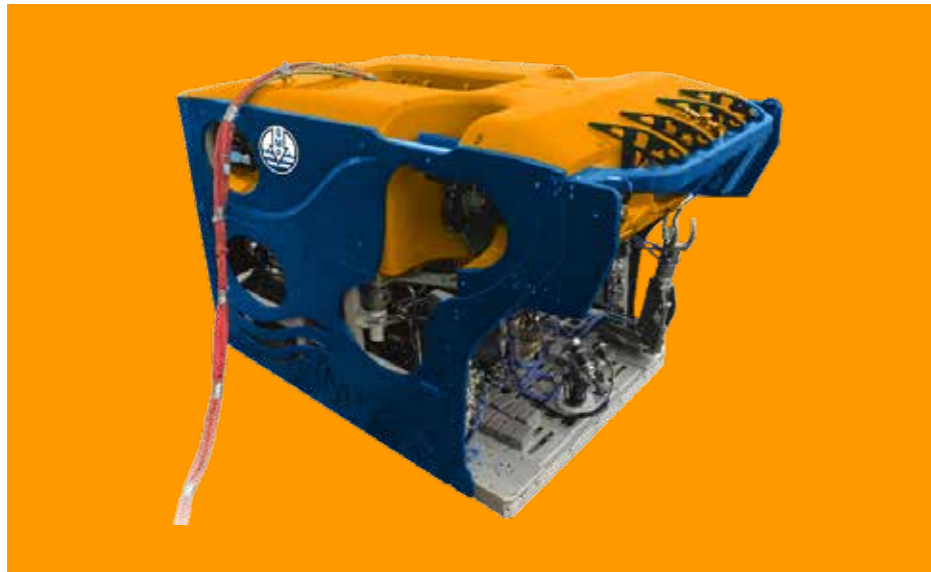
One of the key functionalities of the TUP System lies in its ability to facilitate the transfer of submariners and navy personnel into a secure chamber. Within this chamber, individuals can safely undergo their decompression period,

ensuring their well-being during the critical transition phase. This feature enhances the overall safety and efficiency of underwater missions, making it an indispensable tool for maritime and naval operations.

Furthermore, the TUP System has earned certification and operates in strict compliance with the guidelines and codes of practice set forth by the International Maritime Contractors Association. This commitment to adhering to established industry standards underscores the system's reliability and suitability for offshore diving operations.

Benefits of our TUP Systems:

- Safe - No surface decompression interval, protected transfer to and from the submarine
- Proven - An enhanced proven solution that increases workable bottom time
- Bespoke - The system is built to fulfil the needs of the client, with varying sizes and capacities.



**ONE OBJECTIVE**  
**RAPID DEPLOYMENT**  
**TO SAVE LIVES**

# MULTIROV SR

SMP can supply a wide selection of ROVs to suit client specific requirements. In the case of Submarine Rescue a work class ROV is optimal to carry out applicable duties needed for DISSUB location including:

- Site survey
- Debris clearance
- SEVDS Connection
- ELSS Pod Posting
- Site preparation for full manned intervention
- SEVDS assistance
- Assisting the rescue system

Based on well-established Company Services Swiss ROV technology, the SMP MultiROV

SR is configured for ELSS (Emergency Life Support Stores) pod posting duty, support to inspections, rescue seat debris clearance and ventilation to DISSUB (Distressed Submarine) hook up operations. As standard, the system can accommodate a comprehensive suite of navigation sensors, LED lighting and Cameras with optional 4k video & Gigabit Ethernet capabilities.

The SMP MultiROV SR's high performance and compact design makes it the ideal choice for Navies looking to maximise the success of a rescue operation.

Specifications:

- Weight in the air: 4500 Kg
- Payload: 250 - 300 Kg
- Dimensions: L 3000 x W 1900 x H 2000 cm
- Hydraulic Propulsion: Kawasaki pump (140cc)
- Suitable Media: Environ MV32, Tellus 32, Panolin
- Max Flow / Pressure: 250 L/pm @ 240 Bar
- Forward speed >3.5 Knots
- Thrust (Lateral): 1145 kgf
- Thrust (Vertical): 1174 kgf



# SUBMARINE ESCAPE FACILITY

SMP specialise in the design and manufacture of cutting-edge equipment and systems tailored for submarine escape training facilities. Diving safety has always been a paramount focus for SMP, contributing significantly to the development of advanced solutions for submariner training.

One of SMP's primary focuses is on creating innovative and realistic simulation equipment that replicates the challenging conditions submariners may face during emergency escape scenarios. The company employs a multidisciplinary approach, combining engineering expertise, advanced materials, and simulation technologies to develop training systems that accurately mimic real-life situations.

In addition to product innovation, SMP places a strong emphasis on collaboration with naval authorities, research institutions, and training centres to stay up to date with industry standards and emerging challenges. This collaborative approach ensures that SMP's solutions remain at the forefront of submarine escape training, consistently meeting the dynamic needs of the maritime community.

Our Submarine Escape Facilities can include:

- Escape hatch
- Instructor viewing window
- Lower access door
- Transfer Under Pressure (TUP) system
- Replica compartments
- Escape towers
- Escape suit hookups / supplies
- Water columns
- Environmental simulation equipment
- Decompression chambers



SMP have been manufacturing specialised underwater equipment for over 35 years and we pride ourselves on providing the highest quality subsea systems alongside excellent customer service.

We are agents for leading manufactures such as Kirby Morgan Diving Helmets, Broco, Coltri Compressors and Outland Technology and we are also IMCA members.

We have diversified our product offering to best meet the requirements of our clients from the defence industry. Our specialised equipment has been developed through many years of innovation to fulfil the requirements of navies and military organisations. We manufacture our own equipment and supply a wide range of different products worldwide. Our configured products include helmets, air compressors, air cylinders, underwater tools, lighting and camera systems.



DIVING EQUIPMENT



STANDARD DECOMPRESSION CHAMBERS



HP, LP NITROX AND CNG COMPRESSORS



AIR AND MIXED GAS PANELS



SINGLE AND TWIN LARS

# CONFIGURED PRODUCTS



# SATURATION DIVING

Saturation diving is a specialised diving technique used in various industries, including naval operations, to allow divers to work at great depths for extended periods. In saturation diving, divers live in a pressurised environment for the duration of their work, which eliminates the need for decompression after each dive.

This method is particularly useful for deep-sea operations where conventional diving methods would be impractical.

In the context of the navy, saturation diving systems are typically used for tasks such as underwater construction, maintenance, salvage operations, and submarine rescue.



Our Saturation Diving Systems consist of:

- Decompression chambers
- Submersible Diving Chambers
- Launch and Recovery Systems
- Control Rooms
- Gas Management and Gas Generation Systems
- Life Support Packages



# LAUNCH AND RECOVERY SYSTEMS

Our range of basket and bell Launch and Recovery Systems (LARS) features a great selection of equipment types to best suit your needs. Designed to sit on the deck of a vessel or barge, these products are easy to use and provide reliable performance when it's needed most. SMP's LARS are currently in use by multiple defence organisations across the globe, including the US Navy.

SMP's LARS are IMCA D023 and D018 compliant and have design approval to Lloyds' rules for Lifting Appliances in a Marine Environment (LAME). Our systems can also be constructed under survey to stipulated standards, rules and regulations.

Our LARS folds down to allow it to fit into a standard ISO shipping container thus expensive shipping costs for out of gauge size goods are avoided. This also allows for safe storage and protection of the LARS from the elements during periods when the equipment is not required operationally.

Our Launch and Recovery range includes:

- Diver Twin Basket Launch and Recovery System
- Diver Single Basket Launch and Recovery System
- Diver Wet Bell System



# TRANSPORTABLE CHAMBER

The Apex TAC-500 Transport Chamber System showcases innovative, leading-edge design and engineering features which make it the industry leader for the rapidly-deployed remote diving operations support.

- Easily deployed lightweight single-lock or twin-lock configurations provide full spectrum support for operational diving, including routine surface decompression, therapeutic recompression treatments and transfers under pressure in safety and comfort.
- Proprietary field-installable, interchangeable stainless steel male/female NATO STANAG bayonet adapter flange provides seamless compatibility with the widest range of therapeutic

treatment chambers, other transport chambers or transport chamber entry locks fitted with either male or female NATO STANAG bayonet flanges.

- Hydraulically height-adjustable trolley handling system which ensures effortless bayonet alignment and connection over the widest range of treatment chamber diameters and entry lock configurations.

Our Apex TAC-500 comes in a range of different variants to support multiple uses and differing seating capacities:

- Apex TAC-500 Transport Chamber
- Apex TAC-500 Twin-lock Transport Chamber
- Apex TAC-500 Transport Chamber with Detachable One-Person Entry Lock
- Apex TAC-500 Transport Chamber with Detachable Two-Person Entry Lock



# CONTAMINATED DIVING

SMP's state-of-the-art equipment stands as a shield for Navy divers, empowering them to navigate and operate in waters fraught with potential hazards. Navy divers encounter a myriad of challenges when operating in contaminated water, where the presence of chemical, biological, or radiological contaminants demands an extra layer of protection. SMP's comprehensive range of equipment is meticulously designed to provide the highest level of defence against exposure to these hazardous substances, ensuring that divers can execute their missions with utmost confidence.

From cutting-edge technologies to ergonomic designs, SMP's solutions are synonymous with innovation and reliability. Dive into the depths

with the assurance that the equipment we supply not only meets but exceeds industry standards. We are dedicated to equipping Navy divers with the tools they need to thrive in challenging conditions, establishing SMP as a trusted partner in safeguarding those who safeguard us.

Equipment SMP supply for contaminated water diving:

- Protective Diving Suits
- Regulator Systems
- Diving Helmets
- Gloves and Boots
- Diving Umbilical
- Decontamination Equipment
- Diving Tools and Instruments



# HYPERBARIC RECEPTION FACILITY

SMP have designed and manufactured several unique Hyperbaric Reception Facility systems for clients across the globe.

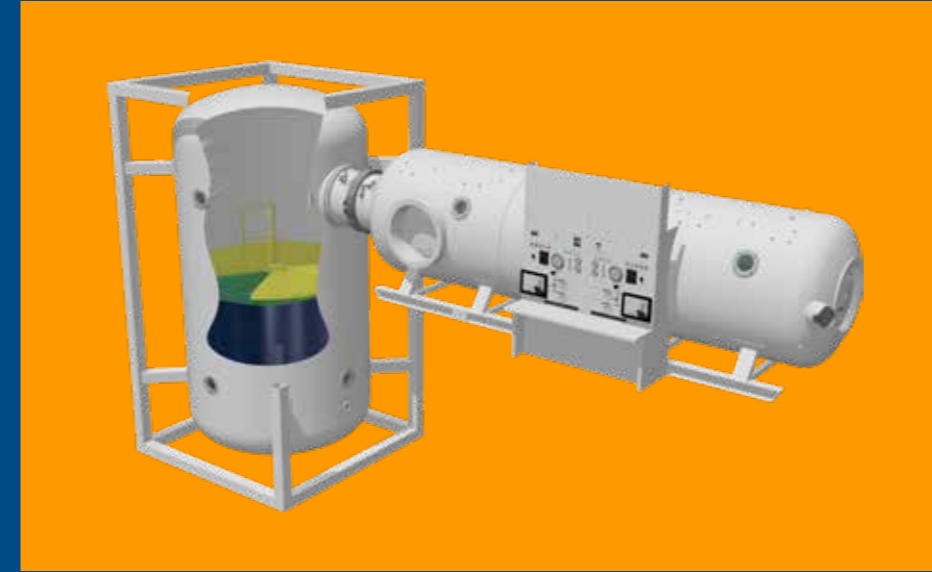
Our hyperbaric reception facilities (HRF) play a crucial role in the naval context, particularly in supporting submarine operations. The hyperbaric facility itself consists of a hyperbaric evacuation system (HES), hyperbaric reception facility (HRF), and a hyperbaric lifeboat reception (HLR). The facility is designed to accept and mate with a self-propelled hyperbaric lifeboat (SPHL). This is sometimes referred to as a hyperbaric lifeboat (HLB), hyperbaric rescue vessel (HRV) or hyperbaric rescue chamber (HRC). The hyperbaric reception facility can also be interconnected to a

life support package (LSP) sometimes referred to a life support system (LSS).



### Built to Your Requirements:

Using only high quality component parts, we build a Hyperbaric Reception Facility that reflects your requirements, specifications and design preferences. SMP's Hyperbaric Reception Facilities are available with up to 300 MSW rating.



# DIVING RESEARCH FACILITY

SMP stands out as a leading provider of cutting-edge underwater technologies, particularly renowned for their exceptional commitment to customisation. Specialising in the creation of state-of-the-art subsea solutions, SMP plays a pivotal role in advancing the capabilities of diving research facilities worldwide.

The emphasis on customisation allows SMP to cater to a wide array of applications within diving research. These facilities can be adapted to simulate various underwater conditions faced by navy divers. This enhances the effectiveness of our solutions and demonstrates a profound understanding of the diverse requirements inherent in defence diving operations.

SMP's unique combination of subsea expertise and expansive range of bespoke capabilities establishes us as frontrunners in the defence industry, driving innovation and pushing the boundaries of what is achievable in underwater solutions.



These diving research facilities can hold an array of different diving equipment. These include:

- Decompression Chamber
- Hyperbaric Chamber
- Dive Control Containers
- Machinery Containers
- HP/LP Compressors
- Diving Electronics
- Personnel Diving Equipment



# MOBILE DIVING CHAMBER

Our mobile dive chambers allow divers to go from water to chamber more efficiently, improving safety. Decompression periods are highly important for a diver's health and safety after completing underwater operations at pressure. With a mobile dive chamber, the chamber can be positioned closer to the mission location for quicker diver recovery.

The mobile dive chamber is perfect for naval diving teams who work in a range of different locations, giving more portability for their supporting systems.

The mobile dive chamber consists of a decompression chamber with supporting machinery built onto a large vehicle. The supporting machinery includes gas compression and gas cylinders, chamber control panels, monitoring systems, and communication devices.



- Our mobile diving chambers can include:
- HP Compressors
  - Gas storage cylinders
  - Chamber control panel
  - PSA system
  - Entertainment system



# MOBILE DIVING SYSTEM

SMP offers mobile and portable diving control systems including fully fitted diving trailers to suit the individual client's requirements. These vans and trailers are used as mobile control centre for defence diving operations. Dive trailers are also a cost effective option with minimal mobilisation costs.

with various equipment to monitor and support diving operations, including video systems, communications and diver control panels.

SMP are able to design a system around the customer's specific needs and requirements.

SMP can fit-out portable trailers and vans to make a mobile diving system with bespoke configurations for remote diving missions. A mobile dive system can be used in the place of a complete conventional surface supplied diving system where access for a full system is restricted or not possible.

These mobile diving systems can be fitting



- Our mobile diving systems can include a range of different systems:
- HP/LP Compressors
  - Dive Control Panels
  - Gas Storage
  - Video Monitoring
  - Diver Communications
  - Equipment Storage



# MACHINERY CONTAINERS

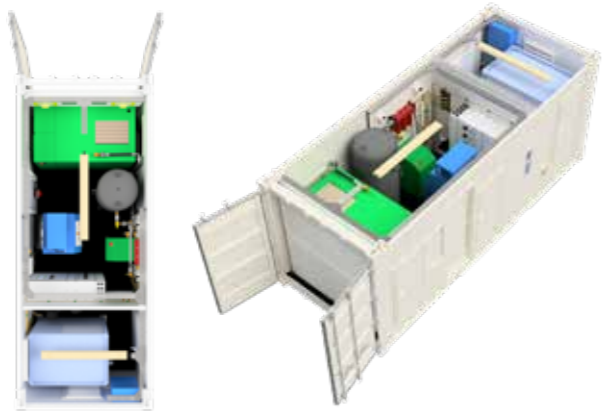
All our machinery containers are designed and built bespoke to your specifications. Options and features include:

- Hydraulic power packs
- Subsea tooling
- Underwater cutting and welding equipment
- Nitrox compression
- Membrane filtration
- Anti-slip flooring

Our containers are available in 10ft, 15ft and 20ft sizes in ISO or DNV 2.7-1 standards. Other sizes available on request.

In addition to these standard offerings, SMP can

provide many other features and fit outs. This allows us to deliver an all-encompassing solution that represents outstanding value for money.



- Machinery Options**
- Range of HP Compressors
  - Range of LP Compressors
  - Range of LP Air Receiver Sizes
  - HP Air Storage
  - HP Charging Panel
  - HP to LP Reduction Control Panels
  - Range of Environmental Control Units
  - Filtration
  - Electric Hot Water Machine
  - Domestic Utility Machinery
  - Welding Rigs
  - HPU's



# CLEARANCE DIVING

Clearance divers, pivotal in naval operations, have evolved significantly from their initial role as specialists for using underwater explosives for clearing obstacles in harbours and shipping channels. Their historical function, centred on ensuring safe navigation, has broadened over time to encompass a diverse range of underwater tasks essential to the success of naval operations.

In response to the evolving demands and challenges faced by clearance divers, SMP have stepped in to offer comprehensive solutions. These solutions go beyond a singular focus on explosive ordnance disposal, reflecting the expanded role of clearance divers in modern naval operations.

SMP's commitment to supporting clearance divers

is evident in the extensive range of specialised equipment and solutions we provide. This includes cutting-edge underwater tools designed to facilitate intricate tasks, advanced underwater sensors for enhanced detection capabilities, suits and harnesses ensuring comfort and safety, diving helmets, reliable communication devices for seamless underwater coordination, and sophisticated video recording systems for documentation purposes.

- SMP's offering for clearance diving include solutions such as:
- Underwater tools
  - Underwater sensors
  - Diving attire
  - Diving helmets
  - Communication devices
  - Video recording systems



# DIVER PANELS

SMP is an experienced provider of Diver Panel design and manufacturing services. Our talented team can build bespoke panels to the needs of the defence diving sector. With products including air diver control panels, mixed gas diver control panels and nitrox diver control panels available we're sure to be able to meet all navy diving scenarios. These panels can be designed to work with single or multiple navy divers, making gas flow easier to monitor and control.

Our panels conform to relevant Association of Diving Contractors (ADC), Health & Safety Executive (HSE), International Marine Contractors Association (IMCA) and Oil and Gas Producers (OGP) guidelines, reinforcing their quality and

reliability in even the most challenging conditions and environments. We are pleased to offer a full service from conceptualisation to delivery.



SMP offer a range of different panels including:

- 1-3 Diver Panels
- High Pressure Panels
- Low Pressure Panels
- Mixed gas panels
- IMCA compliant panels
- Pelicase-fitted panels
- Wall mounted panels



# SCUBA REPLACEMENT PACKAGES

Scuba Replacement Packages (SRP) are a portable breathing gas supply, particularly designed for surface supplied operations. This innovative system consists of high-pressure gas cylinders integrated with an air control panel, ensuring a reliable breathing gas supply for navy divers. To enhance convenience, the unit is equipped with umbilical hangers, facilitating easy storage.

The portability of our standard SRPs makes them ideal for mobile defence diving operations due to the ease of transporting the system. This feature is particularly beneficial for missions that require flexibility and adaptability, such as search and rescue operations and underwater inspections.

Moreover, SRPs play a vital role in operations conducted in environments where the ambient air may be compromised or contaminated. The

self-contained nature of the system ensures that defence divers have access to a clean and controlled breathing gas source, safeguarding them against potential hazards associated with contaminated air.

The integration of high-pressure gas cylinders with an air control panel demonstrates our commitment to providing a comprehensive and user-friendly solution. The air control panel not only regulates the flow of breathing gas but also allows for precise adjustments to meet the specific needs of underwater defence tasks. This adaptability is crucial in ensuring diver safety and optimising operational efficiency.

SMP's 50 Ltr Scuba Replacement Package is supplied with HP air storage mounted in a mild steel frame, with lifting points and engraved stainless steel panel fascia. There are 4 x 50 Ltr 300 Bar cylinders mounted inside the protective crash frame creating 2 regulated HP air supplies; Primary HP to Diver 1, Primary HP to Diver 2 and a common Secondary LP supply.



## Safeguarding those who safeguard us

SMP takes pride in being a trusted supplier of high-quality diving equipment to the defence industry. With a comprehensive range of products, we cater to the specialised needs of military personnel engaged in underwater operations. Our commitment to excellence is reflected in the diverse selection of gear we offer, including full face masks, diving vests, harnesses, video and communications devices and more.

The full face masks provided by SMP are designed with cutting-edge technology, ensuring optimal visibility, comfort and functionality for military divers. These masks play a crucial role in enhancing the safety and efficiency of underwater missions by providing a secure and clear field of vision.

Our diving vests and harnesses are engineered to withstand the rigors of military operations. They are crafted from durable materials that can endure challenging environments, providing the necessary support and flexibility required for underwater tasks. SMP understands the unique demands of defence applications, and our equipment is built to meet and exceed these stringent requirements.

In addition to personal gear, SMP offers state-of-the-art video and communications devices, essential for maintaining effective communication and surveillance during underwater missions. These devices are equipped with advanced features to ensure seamless coordination among team members and to capture crucial footage for analysis and documentation.

SMP takes pride in its long-standing history of supplying the defence industry with high quality diving equipment. Over the years, we have established ourselves as a reliable partner, consistently delivering products that meet the high standards of military specifications. Our commitment to innovation, quality, and customer satisfaction has solidified SMP's position as a preferred supplier for defence agencies around the world.



# DIVER'S EQUIPMENT




# DIVING MASKS AND REBREATHERS

SMP provides full-face masks and rebreathers specifically designed for defence diving operations. Our collaboration with brands such as Kirby Morgan and OTS exemplifies our dedication to supplying top-of-the-range equipment to the industry. These partnerships enable us to harness cutting-edge technology and expertise to meet the exacting standards of professional divers.

The materials used in these masks are selected for their durability and resistance to corrosion, ensuring longevity and reliability in the field.

These masks and rebreathers are the result of meticulous design and rigorous testing, ensuring they not only meet but exceed the stringent requirements of the most demanding diving environments.

**Kirby Morgan M-48 MOD-1**  
The M-48 MOD-1 is the next generation of the popular original M-48 mask. It still features the unique 2-cavity design. This allows the lower pod to be removed while topside to conserve air, and allows normal speech while diving. It may also be used with a variety of different communication systems.



# DIVING VESTS AND HARNESSSES

The diving harnesses offered by SMP are crafted with precision and attention to detail, ensuring optimal functionality and durability in challenging underwater environments. These harnesses are engineered to provide a secure and comfortable fit for divers, allowing them to carry out their missions with confidence.

and rescue, or other specialised operations, SMP's vests are engineered to optimise performance and ensure the safety of divers in challenging conditions.

In addition to diving harnesses, SMP also provides a diverse selection of vests tailored to the unique needs of defence applications. These vests are designed to offer buoyancy control, equipment integration, and modular customisation, allowing military divers to adapt to various mission requirements. Whether for reconnaissance, search

Our range of Diving Vests includes:

- Recovery Vests
- Recovery Jackets
- Harnesses
- Guardian Vests
- Buoyancy Control Devices (BCD)



# DIVING VIDEO SYSTEMS

In the realm of defence diving, where precision and situational awareness are paramount, video systems stand as indispensable support equipment. These systems serve a pivotal role by providing the means to monitor and oversee underwater operations effectively. A notable feature is their capability to concurrently display feeds from multiple divers' cameras on a unified screen, streamlining the monitoring process and enhancing coordination.

SMP, a trusted provider in this domain, offers a spectrum of cutting-edge underwater videoing solutions. With a proven track record of serving clients across the globe, SMP has become

synonymous with reliability and expertise in the field. Our commitment to delivering high-quality video systems has earned them a reputation as a go-to source for defence diving technology.

One of the standout features of SMP's offerings is the flexibility we provide in accessing video feeds. Not only can these feeds be viewed in real-time, allowing for immediate response to unfolding situations, but they can also be recorded onto an internal hard drive or solid state drive. This dual functionality ensures that crucial moments are captured and can be revisited for comprehensive reviews and analyses.

Our underwater video systems include:

- Diving helmet cameras
- Portable video devices
- Multi-diver video systems
- Video recorders
- Video and Comms server racks



# DIVER COMMUNICATIONS

The diver communication systems provided by SMP facilitate seamless communication between navy divers and personnel stationed on the surface. SMP takes pride in being authorised distributors for renowned brands such as C-Tecnic, Amron International, and OTS.

These distinguished brands have a rich history of creating and advancing communication systems for the defence diving industry, showcasing their commitment to innovation and reliability over the years. By partnering with these leading manufacturers, SMP ensures that defence divers and operators have access to cutting-edge technology, enhancing the efficiency and safety of

military subsea operations. With a focus on quality and performance, SMP continues to deliver top-tier diver communication solutions to meet the evolving needs of the diving community.



Our underwater communications systems include:

- 1, 2, and 3 diver radios
- Helium unscramblers
- Chamber radios
- Wireless tender communicators
- MilCom devices
- PowerCom devices
- Magnacom Surface Stations



# UNDERWATER TOOLS

SMP collaborates with leading brands in the industry to provide a comprehensive array of underwater tools tailored to meet the diverse needs of various applications. Our extensive product line encompasses cutting-edge solutions for cutting and welding, hydraulic tools, lift bags, magnets, hot water machines, and dive knives.

Our range of underwater tools are specifically designed to excel in subsea defence operations. We aim to equip navy divers with the best tools to aid their missions and ensure their safety.

Our commitment to reliability and excellence ensures that our selection of tools not only meet

but exceed the stringent demands of the industry. These underwater tools are trusted for their durability, performance, and adaptability, making them indispensable assets for professionals working in the most demanding underwater environments. With a proven track record of reliability, these tools have become synonymous with success in the defence diving industry.

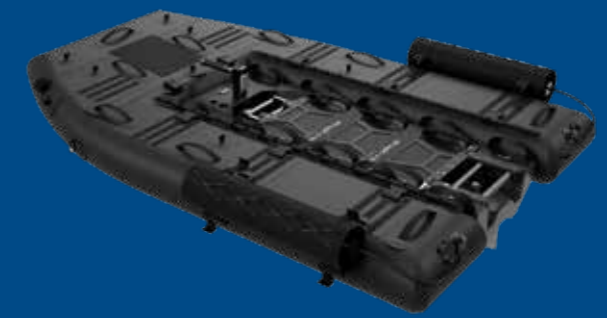
- Our range of underwater tools includes:
- Hammers
  - Chainsaws
  - Grinders
  - Welding and Cutting
  - Knives
  - Navigation boards
  - Lift bags
  - Magnets
  - Hot water machines



# DIVER PROPULSION DEVICES (DPD)

In military contexts, DPDs are employed for the delivery of combat divers and their equipment across distances or at speeds that would otherwise be impractical. Depending on the specific mission and environmental conditions, operators may require varying combinations of speed, range, and payload capacity. DPDs prove valuable in extending the range of autonomous divers who are otherwise constrained by factors such as the limited breathing gas they can carry, the consumption rate of that breathing gas (exacerbated by exertion and diver fatigue), and the time constraints dictated by decompression obligations, which are contingent on the dive profile.

Common applications involve cave diving and technical diving, where these vehicles assist in transporting cumbersome equipment and optimising the limited underwater time dictated by deep diving decompression requirements.



- Benefits of using a DPD**
- Travelling longer distances
  - Increased speed
  - Moving equipment
  - Reduce fatigue
  - Reduced risk of hypercapnia



For over 35 years, SMP has offered outstanding customer service and high quality solutions to the defence diving market. For this we are indebted to the skills and dedication of our workforce. Our team is made up of industry experts, former navy personnel, experienced design engineers, as well as a workshop full of qualified engineers, electricians and fitters. Without them we would not be in the position we are today.

Due to industry and client demands, SMP has developed its operations to suit the marketplace offering complete system design and manufacture. No matter how difficult the challenge or how long the process, we work very closely with the client to enable them to achieve their goals. Many of our systems are built and configured to be bespoke to the requirements of the customer.

Militaries and defence organisations operate 24/7 with downtime being a life and death situation in circumstances. SMP understand the needs of the defence diving industry and our experts are always on call. We deliver our results through continued communication and support. Our experience and resources allows us to react quickly to create solutions that fulfil the needs of militaries and navies. We would like to emphasise that we offer a complete service that we feel is special within our marketplace.

SMP are a globally recognised company working with defence clients from across the globe, including the British MOD and the US Navy.

# SUPPORT



# REFURBISHMENT AND MAINTENANCE

At SMP, our pride lies in our dedicated team of highly qualified and experienced engineers who are at the forefront of providing high quality refurbishment and maintenance solutions. With a wealth of expertise, our engineers are equipped to ensure that military subsea systems not only run correctly but also remain at peak performance levels.

We offer a complete contractor maintained solution to ensure kit is always operational. Our engineers can come to site to perform this maintenance so the kit is ready to go from its base. You operate, we ensure kit is operational.

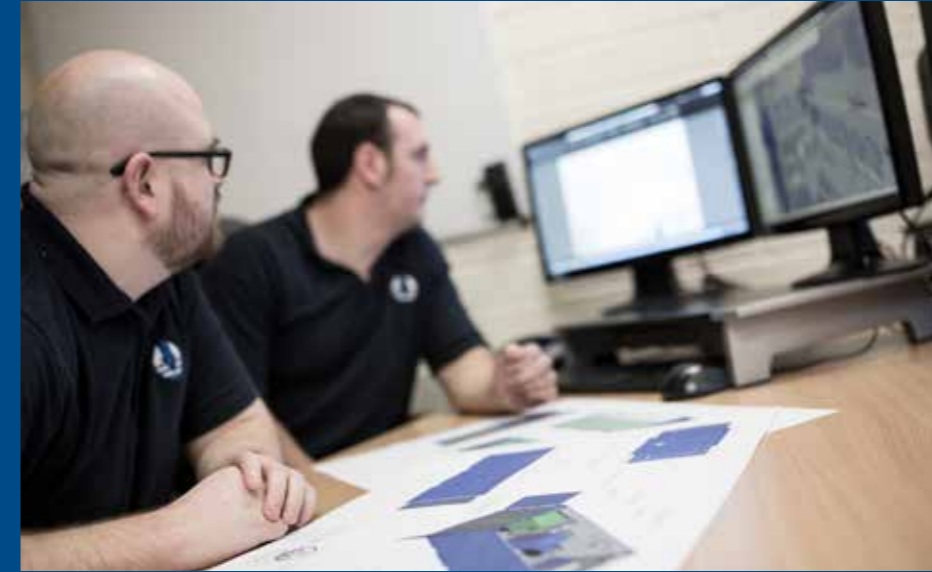
We understand the difficulties of acquiring new equipment in the defence sector which is why we offer refurbishment solutions. SMP have worked on refurbishment projects for various navies including refurbishing of a LARS and DDC system for the Irish Navy and refurbishment of a portable decompression chamber for the Estonian Navy.

The depth of our engineers' experience allow us to work on a range of equipment. Whether it's intricate machinery, advanced electronics, or complex systems, our team has the technical know-how to revitalise and optimise your equipment, ensuring it meets or exceeds industry standards.



### SMP Workshop

SMP have two workshops based in the UK allowing for large scale systems to be brought to site and refurbished from our team of qualified engineers.



# TRAINING

At SMP, we prioritise not only the creation of cutting-edge equipment but also the empowerment of defence clients and navy divers to harness the full potential of our products. Recognising that proper operation is key to achieving optimal performance and longevity, our team of dedicated experts is committed to providing comprehensive training sessions.

Our training programs are meticulously designed to cater to the defence diving industry. Our trainers can perform training sessions at your location or at our facilities. Our trainers include former military personnel, giving them more understanding of what needs to be included in sessions. We also

train the trainer to give our clients the ability to train new personnel on the equipment they will be using. Whether you're introducing a new product line or seeking to enhance the proficiency of your team, our training sessions cover every aspect of equipment operation.

Our expert trainers bring a wealth of knowledge and hands-on experience, offering practical insights, tips, and best practices to facilitate a smooth learning process. Participants will gain a deep understanding of the equipment's features, functionalities, and maintenance requirements, empowering them to troubleshoot minor issues and optimise performance.

### SMP Training Facility


Our training facility hosts various training courses for diving equipment, diving panels, system maintenance and operation courses.

SMP is an authorised training centre for Kirby Morgan products, offering diving helmet repair and maintenance courses.



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