



Submarine Manufacturing & Products Limited

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Blackpool Road, Newton, Preston, Lancashire, United Kingdom PR4 3RE

PRODUCT DATASHEET

Atmospheric Suits

???????



THIS PRODUCT HAS THE FOLLOWING OPTIONS:

No product options are available.

OVERVIEW

This hard metal dive suit allows divers to operate safely down to a depth of 1000 feet and yet still have exceptional dexterity and flexibility to perform delicate work. The amazing technology of the EXOSUIT atmospheric diving system



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(ADS) maintains a cabin pressure of the surface and still allows the suit to bend due to a unique rotary joint

Please contact us to discuss your bespoke requirements and options.

DESCRIPTION

SMP this hard metal dive suit allows divers to operate safely down to a depth of 1000 feet and yet still have exceptional dexterity and flexibility to perform delicate work.

The amazing technology of the EXOSUIT atmospheric diving system (ADS) maintains a cabin pressure of the surface and still allows the suit to bend due to a unique rotary joint.

FEATURES

Umbilical

- 1250 feet long nominal
- OD 0.980" nominal
- Minimum bend radius 27"
- Breaking strength 7200lbs
- Neutrally buoyant
- Power Requirement
- 208-240 3 phase, 50 A, 50-60 HZ

Emergency Equipment

- Umbilical jettison capability
- Thruster jettison capability
- Emergency battery
- Powers thru water comms, O2 analyzer and carbon dioxide scrubber

Ancillary Equipment

- HD camera, H.264 (Blu-Ray Codec) camera
- SONAR
- Imagenex miniature 852 scanning sonar
- Newtsun LED lights
- 2 x 150 W LED lights
- 9,600 lumens (each)
- For comparison - a 250W quartz lamp produces 3,500 lumens
- 4500 deg K (cool white)



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SPECIFICATION

General

- 1000 ft depth rated
- A536 Aluminum Alloy
- Weight 500-600 LBS depending on config

Life Support

- 2 Redundant oxygen systems, total capacity 50 hours
- 50 hour Carbon Dioxide scrubber
- Back up battery with automatic change over on power failure
- Lung-powered scrubber back-up

Propulsion

- 4 x 1.6 HP thrusters (expandable to 8)
- Direct drive, magnetically coupled thrusters
- Quiet operation
- Responsive (quick windup)

Telemetry / Control System




- Distributed control system (Omron PLC) allows for uninterrupted operation in case of telemetry failure
- Gigabit Ethernet over Fiber optic
- Network attached High definition camera
- Network attached Imagenex 852 SONAR
- Easy integration of IP and POE (Power Over Ethernet) devices
- Remote (topside) control of: thrusters, thruster trim, lights and tooling
- Lightens pilot workload
- AMS (Atmospheric Monitoring System)
- Real time monitoring topside of cabin pressure and Oxygen %
- Lightens pilot workload
- Enhances safety

Communication

- Full duplex intercom - over copper
- 6 intercom stations (pilot +5)
- Highly reliable
- No subsea power required
- Excellent voice quality (low noise)
- Aux In and Out jacks (topside)
- IP intercom out
- Allows audio to be recorded synchronously with project video
- Acoustic thru water communications
- Backup in case of hardwire communications failure



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â€¢ Compatible with communications hardware use commonly by manned submersible

ORDER THIS PRODUCT

To order this product or to request a price contact our UK sales team on
+44 (0)1772 687775

Alternatively you can place a quote request through our website
[http://www.smp-ltd.co.uk/](http://www.smp-ltd.co.uk) or send an email to sales@smp-ltd.co.uk