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maraneo m2 advanced

The hands-free propulsion system for tactical diving operations



The maraneo m2 advanced is an underwater propulsion system for professional divers. Fatigue-free propulsion with a possible thrust of >42kg is achieved by thigh-mounted thrusters that keep the diver's hands free for other operations. The intuitive control via body movements and is learned within a few minutes.

System overview



1. Thruster unit
2. Connecting cable with plugs on both sides
3. Control unit with spiral cable
4. Hand control unit with spiral cable
5. Battery unit in carrying bag with MOLLE system
6. Stable and non-slip carrying belt with Molle system
7. Buoyancy compensators
8. Shoulder harness system

Features

- > 42 kg thrust
- Maximum speeds between 6 and 9 km/h (fully equipped with rebreather... / apnoea diver)
- Very low noise
- > 100 m pressure-tight
- Easy and intuitive to use
- Stepless speed regulation
- Extremely modular mounting options
- Absolutely corrosion resistant
- 1062 Wh lithium-ion battery (UN38.3 certified and fast-chargeable)

Thruster units



1. Powerful patented gearless direct drive
2. Hydrodynamically optimized thrust nozzle
3. Ergonomically shaped leg plate with extended thrust support and adjustment options
4. Full rubber strap for flexible and at the same time stable as well as slip-free fastening on the thigh also on neoprene
5. Leg buckle
6. Rubber ring for leg strap overlength
7. Plug to battery unit
8. Double joint for full mobility with simultaneous torsional rigidity



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Propeller can be **removed without tools** even with neoprene gloves on. This allows the user to free the propeller should it ever be clogged for example with seaweed. Thanks to the self-finding mount design, the propeller can be **mounted blind**.

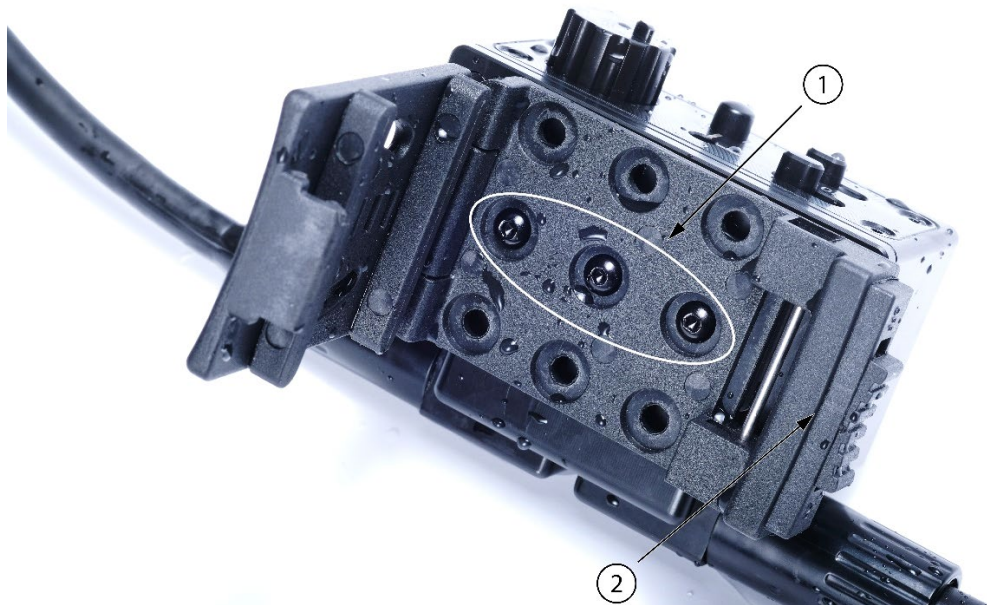


Photography by John A. Günther

Control unit



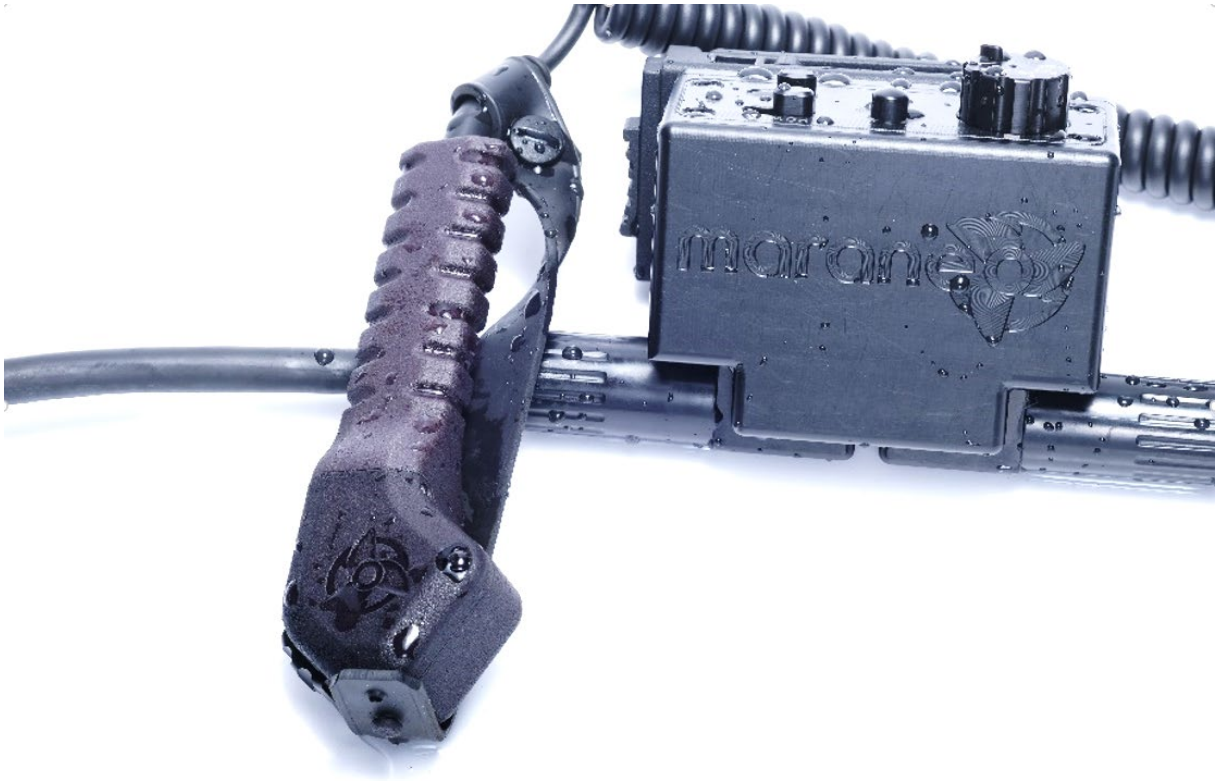
1. Rotary knob for **stepless** thrust regulation
2. On-off switch
3. Sliding lid for mechanical LED cover
4. Push button for requesting the status light (automatic LED turn-off after 5s)
5. Status light (LED)
6. Connection to the battery unit or to the hand control unit. The two connections can be interchanged as desired



1. Rotatable and height-adjustable in 90° steps by means of grid and 3 screws
2. Support system with Security Lock and angle adjustment (Tac-Clip))

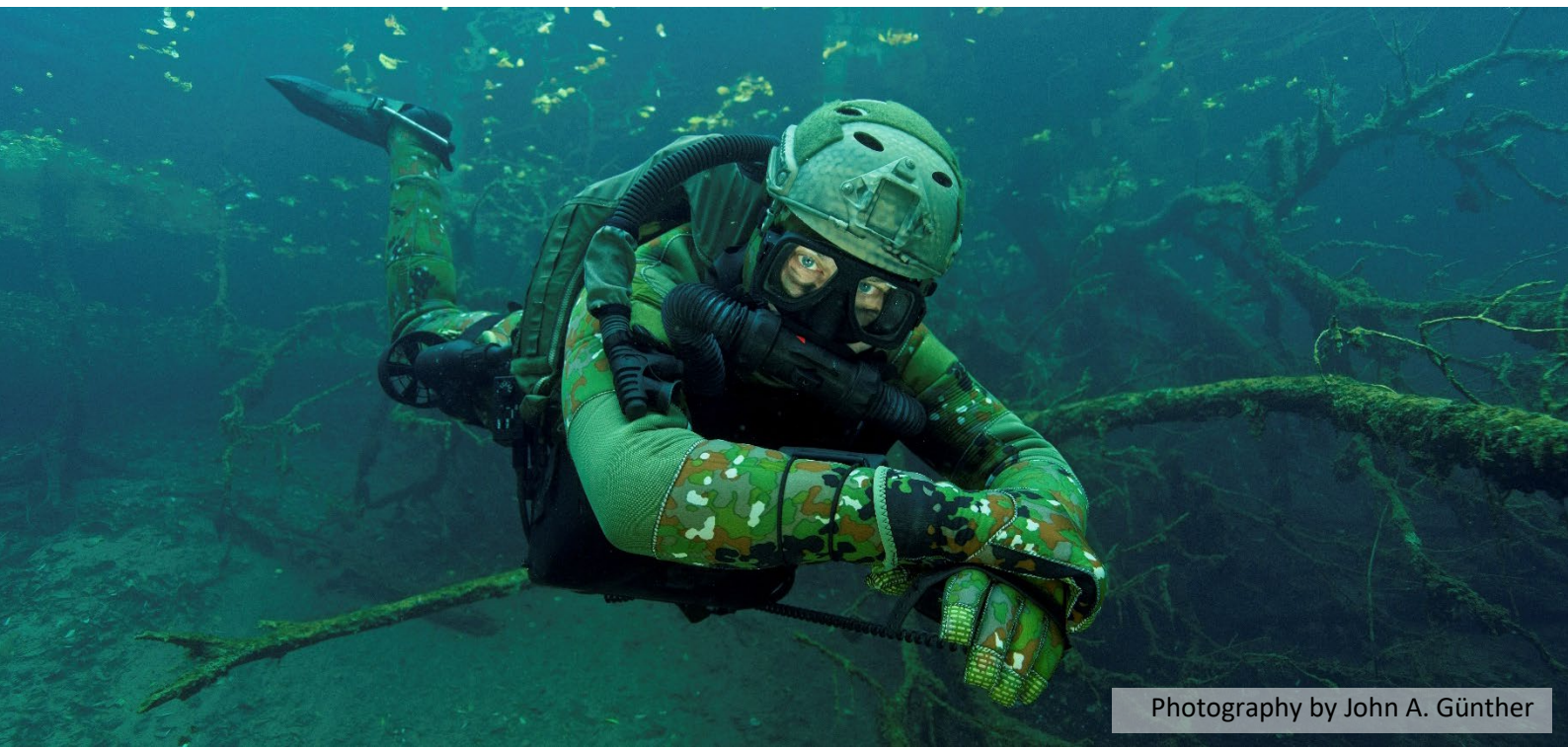


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Connectors to main unit and hand control are interchangeable. Together with the connecting cables designed as spiral cables, the control unit **can be carried anywhere.**

- All control elements can be easily operated with neoprene gloves
- Position of all control elements can also be felt with the finger
- Direct continuation with set speed after switching off and on again



Photography by John A. Günther

Hand control unit

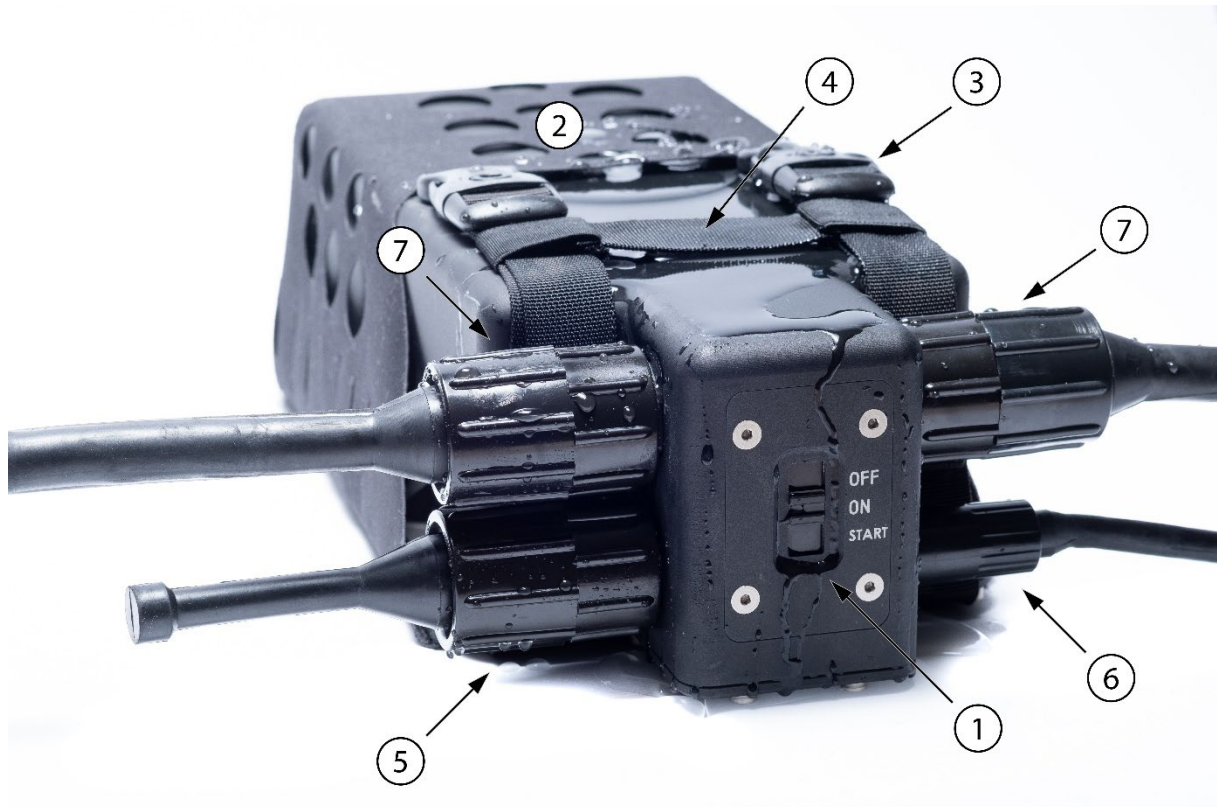
The optionally attachable **hand control unit** lies **securely in the hand** and is designed so that it can be easily operated even with tools in the hand. The spiral cable allows **free and comfortable positioning**. If the hand control unit is plugged in, **stepless thrust control** is performed automatically via this unit, otherwise via the main control unit. Suitable for right- and left-handers due to symmetrical design and rotatable and length-adjustable rubber band as anti-loss device.



1. Anti-loss device can be rotated 360°
2. Ribbed and self-locking knob for good operability also with neoprene gloves
3. Spiral cable for free movement
4. Magnetic holder

Battery unit

The main unit with battery can be switched active (START) or completely switched off (OFF) by a simple slide switch. When the unit is completely switched off, it has an extremely **low self-discharge** ensuring storage without the need for charging for many months and without deep discharge. The unit will automatically return to this state after 1.5 hours without use.



1. Main switch
2. Robust carrying bag with MOLLE system
3. Buckles to open and close the carrying bag
4. Tab connector
5. Charging connection
6. Control unit connection
7. Thruster unit connection



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The main unit can be modularly attached to other diving equipment such as a buoyancy jacket, plate carrier or carrying belt, which has been optimized for this purpose and is included in the delivery, by means of a **robust bag equipped with a Molle system**. A plastic Molle "3-pin " for quick release is also available as an option. The bag is designed so that air bubbles and water can escape quickly in each case.



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Product-Service

Each set is supplied with a spare parts and maintenance kit for the end user.



Although our diver propulsion system is very robust and easy to maintain, our product service supports you with various service packages. Care, maintenance and servicing are crucial for safety and reliability - but careful maintenance and servicing are also a must in the commercial sector.

Preventive checks, ongoing care and the use of original spare parts increase the longevity of your investment.

Technical data

Max. thrust	> 42 kg
Max. speed	6 / 9 km/h (fully equipped with rebreather... / apnoea diver)
Weight in air	16,3 kg
Downforce / buoyancy	~7 kg downforce to ~3 kg buoyancy (Adjustable by buoyancy compensators)
Pressure tightness	100m
Battery capacity	1062 Wh (UN38.3 certified and fast charging)
Available colours	Black, conCAMO





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