



The base model **Nemo 100 - TOURIST** is an autonomous submarine vehicle for two or three people. It is designed for tourism purposes in designated diving sites for depths that are readily accessible to scuba divers.

The „explorer“ (lat.: explorator) takes you on an underwater quest. The model **Nemo 100 - EXPLORER** is an autonomous submarine vehicle for two people. It is designed to be launched both from the shoreline and from ships in the open sea.

TECHNICAL INNOVATION

- Large, pressure-proof acrylic glass domes enable the people sitting in the submarine to have a perfect view of the underwater world. The additional dome at the lower front end gives a good view to the ground. This makes the navigation near the ground easy.
- An on-board computer monitors all safety-related data and controls the emergency systems.
- Due to the dimensions and weight the submarine can be easily “trailed” by the most cars.

DIVING TECHNOLOGY

The design for „Nemo 100“ follows the basic principle that has prevailed and proven itself in larger submarines.

The passenger cabin is an enclosed pressure vessel made of boiler steel. As a result, the internal pressure stays the same at every water depth level, equal to the atmospheric pressure that we are accustomed to on the surface of the water. The diving and regulation cells and the trimming equipment take in the surrounding water and discharge it without contamination. The cells are purged using compressed air. Additionally, the trimming and regulating cells can be cleared with a high-pressure pump.

The air conservation system is based on CO₂ purification and controlled oxygen feed.

PROPULSION

Direct propulsion is generated by the propellers of two electric motors. Batteries installed in the interior are used for current supply. The batteries run gas-free and are leak-proof.

The operation of the rudder is based on an electropneumatic principle. Operation of the motors, the elevator and the aileron is realized by means of a multifunctional joystick.

SECURITY

The model series „Nemo 100“ is equipped with all safety standards currently available. With regard to pressure, each submarine will be tested for twice the intended water depth levels.

There are several autonomously functioning emergency-surfacing systems, as well as rescue diving gear available for driver and copilots to be used in the event of an emergency exit.

Sensors monitor the composition of breathable air, and the diving depth.

If the measured data exceeds the specified values, a safety switching device will commence emergency surfacing.



Nemo 100 - Tourist



SPECIFICATION

Dimensions

- Length 395 cm (app. 155 in)
- Width 180 cm (app. 70 in)
- Height 155 cm (app. 61 in)
- Weight 1700 kg (app. 3750 lb)
- Pressure hull 100 cm diameter (app. 39 in)

General

- Model N 100-T
- Builder Nemo Tauchtouristik GmbH & Co. KG
- Crew pilot plus one passenger
- Internal cabin pressure 1013,25 hPa (ca. 1 bar)
- Payload 240 kg (app. 530 lb)
- Speed app. 3.0 knots
- Maximum operating depth 30 m (app. 33 yd)
- Weight (ready to dive) 2000 kg (app. 4412 lb)
- Operational autonomy up to 10 hours

Electrical

- Board voltage 24 volt
- Propulsion 2 x 1000 W
- Power:
 - Main battery 4 kWh (Pb-Gel)
 - Reserve battery 1,2 kWh (Pb-Gel)

Dive Tec

- Dive tanks External
- Trim- and ballast tanks Internal
- Compressed air capacity 4 x 12 litre (200 bar)
- Air reserve 1 x 7 litre (200 bar)

Life Support

- System Oxygen system with CO₂ purification
- Survival period minimum 24 hours

Emergency Equipment

- Emergency auto control system time and data controlled
- Monitoring data O₂, CO₂, depth, pressure, temperature
battery capacity
- Self contained breathing apparatus (2x)
- Manual drop weight release
- Emergency switch (2x)
- Emergency battery 1,2 kWh/24 volt
- Manual location buoy release

Optional Equipment

Integrated battery charger, Multifunction joystick, Seats (high adjustable), Fluid-compass, Analogue and digital depth display, Battery capacity display



Nemo 100 - Tourist/3



SPECIFICATION

Dimensions

- Length app. 500 cm (197 in)
- Width 180 cm (app. 70 in)
- Height 155 cm (app. 61 in)
- Weight app. 2700 kg (5956 lb)
- Pressure hull 100 cm diameter (app. 39 in)

General

- Model N 100-T/3
- Builder Nemo Tauchtouristik GmbH & Co. KG
- Crew pilot plus two passenger
- Internal cabin pressure 1013,25 hPa (ca.1 bar)
- Payload 360 kg (app. 530 lb)
- Speed app. 3.0 knots
- Maximum operating depth 30 m (app. 33 yd)
- Weight (ready to dive) app. 3000 kg (app. 6618 lb)
- Operational autonomy app. 6 hours

Electrical

- Board voltage 24 volt
- Propulsion 2 x 1000 W
- Power:
 - Main battery 4 kWh (Pb-Gel)
 - Reserve battery 1,2 kWh (Pb-Gel)

Dive Tec

- Dive tanks External
- Trim- and ballast tanks Internal
- Compressed air capacity 4 x 12 litre (300 bar)
- Air reserve 1 x 7 litre (300 bar)

Life Support

- System Oxygen system with CO₂ purification
- Survival period minimum 24 hours

Emergency Equipment

- Emergency auto control system time and data controlled
- Monitoring data O₂, CO₂, depth, pressure, temperature
battery capacity
- Self contained breathing apparatus (3x)
- Manual drop weight release
- Emergency switch (3x)
- Emergency battery 1,2 kWh/24 volt
- Manual location buoy release

Optional Equipment

Integrated battery charger, Multifunction joystick, Seats (hight adjustable), Fluid-compass, Analogue and digital depth display , Battery capacity display



Nemo 100 - Explorer



SPECIFICATION

Dimensions

- Length 395 cm (app. 155 in)
- Width 180 cm (app. 70 in)
- Height 155 cm (app. 61 in)
- Weight 1700 kg (app. 3750 lb)
- Pressure hull 100 cm diameter (app. 39 in)

General

- Model N 100-E
- Builder Nemo Tauchtouristik GmbH & Co. KG
- Crew pilot plus one passenger
- Internal cabin pressure 1013,25 hPa (ca. 1 bar)
- Payload 240 kg (app. 530 lb)
- Speed app. 5.0 knots
- Operating depth 50/100*m (app. 55/110* yd)
- Weight (ready to dive) 2000 kg (app. 4412 lb)
- Operational autonomy up to 10 hours

Electrical

- Board voltage 24 volt
- Propulsion 2 x 1400 W
- Power:
 - Main battery 6 kWh (Li-Mn)
 - Reserve battery 0,6 kWh (Li-Mn)

Dive Tec

- Dive tanks External
- Trim- and ballast tanks Internal
- Compressed air capacity 4 x 12 litre (300 bar)
- Air reserve 1 x 7 litre (300 bar)

Life Support

- System Oxygen system with CO₂ purification
- Survival period 96 hours

Emergency Equipment

- Emergency auto control system time and data controlled
- Monitoring data O₂, CO₂, depth, pressure, temperature
battery capacity
- Self contained breathing apparatus (2x)
- Manual drop weight release
- Emergency switch (2x)
- Emergency battery 1,2 kWh/24 volt
- Manual location buoy release

Optional Equipment

Integrated battery charger, Multifunction joystick, Seats (high adjustable), Flux-Gate-compass, Analogue and digital depth display, Battery capacity display, External lights, Intercom system, Fill level display for the trim- and ballast tanks, Sonar, VHF-Radio, Acoustic underwater communication, GPS-Plotter

*optional