



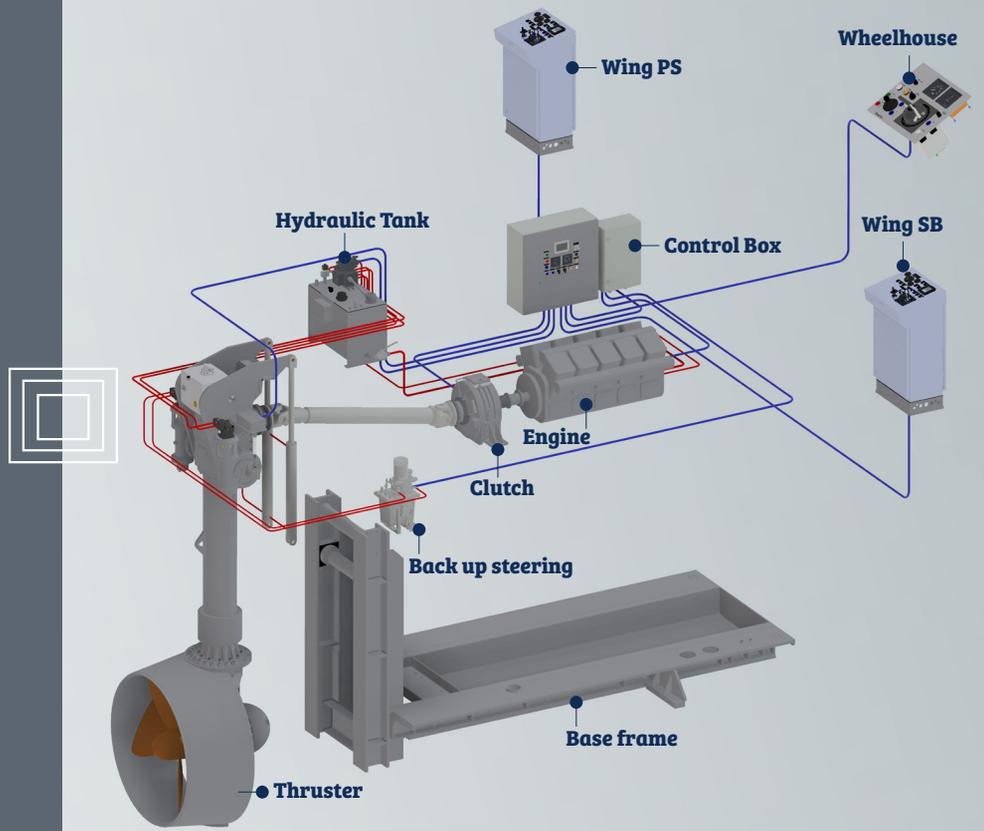
Schraven Navigator unit

**Flexibility and
manoeuvrability**

If your vessel is not equipped with a suitable engine room, then a deck mounted Navigator Unit may provide an interesting solution.

Navigator Unit

The Navigator Unit is a reliable and compact propulsion system suitable for use on a very wide range of vessels. In principle, the Navigator Unit is a large scale outboard plant which, in combination with the thruster, makes the vessel 360 degrees manoeuvrable. Schraven is specialized in the development and in-house producing of 100% custom-built Navigator Units for thrusters. The Navigator Unit can be driven electrically or by a diesel engine.



Depth adjustment

For maximum efficiency the propeller should be below the baseline of the vessel, but when the vessel sails in shallow water there are limitations for positioning the propeller. A thruster which is adjustable in height may be the answer. The arrangement for the depth adjustment equipment which serve for carrying the thruster is welded to the base frame. Depth adjustment is arranged by hydraulic cylinders to move the complete thruster up and down.

Installation

Installation is quick and easy, because the Navigator Unit is equipped with a contra foundation, which can be welded on a flat deck right away. So it is quite easy to motorise different types of floating objects such as vessels, ferries, pontoons, split or Jack-up barges and many more applications.



**Wasa
Dredging,
Sinann &
Boann**



**Ascencion
Island**



Characteristics

- User friendly
- Custom-built
- Flexible propulsion solution
- Engine type/brand is free of choice or even self-supplied
- Schraven control system
- Robust and sleek design
- Classification by all major classification societies

Unit

A base frame supports the thruster, prime mover and provides all necessary foundations as well as suspensions for the subsystems. A canopy is mounted on top of the base frame. Screwed together, base frame and canopy forms a unit.



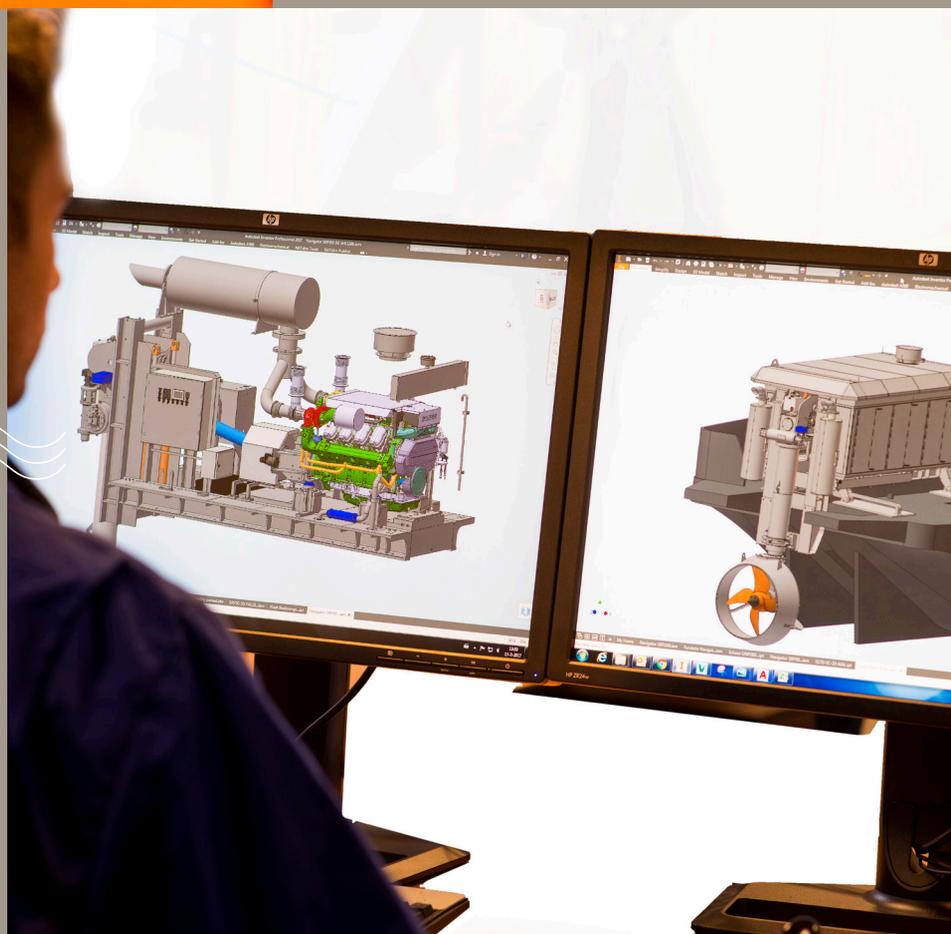
Advantages

- Compact unit
- Suitable on almost every type of vessel
- Simple installation (deck installation)
- Easy access for maintenance work
- 360° manoeuvrability
- Available in various power ranges

Schraven has years of experience in building Navigator Units for various types of thrusters. Our engineering and R&D departments are particularly well suited for this type of projects. In order to come to a specific project design, both the propulsion and control system as well as the accompanying preconditions for the design are taken into account.

These projects include the entire process, such as; engineering, production and the commissioning on site.

Please ask us for possibilities.



**Van Oord,
Jetsed**



**OHF Hafen-
und Flussbau
GmbH,
OHF 279**



**Schraven is a family company for more than 40 years
that offers worldwide:**

- ✿ CUSTOM-BUILT NAVIGATOR UNITS
- ✿ CUSTOM-BUILT STEERING SYSTEMS
- ✿ SERVICE OF ALL AZIMUTH THRUSTERS
- ✿ SERVICE OF ALL BOW-THRUSTERS
- ✿ SUPPLY OF SPARE PARTS

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