



With passion for water sports

In the leisure boat market, HAWE is considered a specialist for key hydraulic components. Well-known manufacturers of recreational boats and boat drives rely on our customized systems, whose outstanding features create added value and benefits for our customers. Due to their high resistance to dust, moisture, seawater, sunlight and the effects of ozone, they are characterized by particularly high reliability and durability.

Solutions for a World under Pressure

HAWE
HYDRAULIK

Innovative solutions for use in the water

Maneuver safely at any time

The term leisure boat or also sports boat mostly includes motor boats, sailing boats, sailing yachts and personal watercraft (PWC). Depending on the arrangement of the engine, one speaks of outboard, sterndrive or inboard. The above types have different requirements for propulsion and control. What they all have in common, however, is the operator's desire for simple and intuitive control and driving comfort. When cruising on the water, the focus is on driving pleasure. When parking in a harbor or a lock, the main focus is on ease of maneuverability. If the sport boat is used to pull water skiers, increased power is required.

To meet these requirements, we offer customized drive solutions with:

- State-of-the-art drive technology
- Compact and powerful units
- Reliable protection against marine growth
- Seawater resistant
- Ready to use: filled with oil, tested and ready for immediate use

Safe recreation in waves

All components of HAWE hydraulic systems for boat applications are characterized by high corrosion resistance and simple, cost-effective assembly. They can be pressurized with over 200 bar operating pressure and thus offer safe and long operation. They are developed in accordance with EC Directive 2013/53/EU for recreational craft and certified in accordance with DIN EN ISO 10592, DIN EN ISO 62, DIN EN 28848.

Steering trim and tilt systems for leisure boats

Since high forces often act in practice in the sport boat sector, hydraulic systems are the preferred choice here. Thanks to the high power density of hydraulics and the resulting compact dimensions of the components, they require very little installation space. There are both individual components and complete solutions as a closed system available. The advantage of the closed system is that it is maintenance-free, as the system is filled with oil and absolutely leak-proof for its entire service life.

Steering

The term „steering“ refers to the control of the boat's direction of travel. The boat operator is assisted hydraulically in steering the boat so that he has to exert less force for the steering process. Steering is achieved, for example, via hydraulic cylinders attached to the outboard motor or the sterndrive. These swing the boat drive according to the selected direction of travel.

Trimm

In recreational boats, „trim“ is the ability to change the angle between the propeller thrust and the stern of the boat. The trim setting must be adjusted throughout navigation. It is usually a compromise for between cruising speed, maneuverability and fuel consumption. Optimally trimmed, the sport boat is course and side stable.

Tilt

The term „tilt“ comes from English and means „inclination“. One speaks of a tilt, for example, when the outboard motor or sterndrive is tilted up. It is basically a protection for the drive.



Sterndrive with decentralized, hydraulic trim/tilt system



Portfolio range

Advanced technologies for the toughest requirements - that's what HAWE hydraulic solutions offer. Adapted to your specific requirements and delivered ready for connection, this is how you and your customers benefit. An excerpt from our product range:

Power Trim Tilt

Power Trim Tilt systems are designed for outboards and optimized for their handling characteristics. The brushless motor allows higher forces with less installation space compared to conventional drives. The built-in sensor permanently monitors the position of the motor and enables automatic alignment of the motor to the driving speed.

- Max. operation pressure (pmax): 210 bar
- Max. flow (Qmax): 3,3 l/min
- Max. power power: 1,5 kW



Trimm Tilt System

For trimming sterndrives HAWE offers a ready-to-connect system consisting of a pump and cylinders directly connected with hoses. The trimming cylinder has an integrated overpressure protection, which ensures safe operation at all times.

- Max. operation pressure (pmax): 220 bar
- Max. stroke: 225 mm
- Burst pressure: 200 bar / 19kN



Steering cylinder with control valve

The Steering cylinder has a robust wiper system and a long life expectancy. All HAWE cylinders have a compact design, are salt water tested and developed for the rough operating conditions at sea.

- Max. operation pressure (pmax): 120 bar
- Max. stroke: 130 mm
- Burst pressure: 700 bar / 56 kN



Hydraulic power unit for steering and trimming

The compact power pack type HICON was specially developed for steering and trimming for sterndrives and outboards and with its encapsulated design offers reliable protection against temporary submersion in water according to protection class IP 67. The brushless motor enables higher forces with less installation space compared to conventional drives. The temperature management is optimally designed for high driving fun and requires no further cooling.

- Max. operation pressure (pmax): 170 bar
- Max. flow (Qmax): 3,0 l/min
- Max. motor power: 1,5 kW





Contact person

We are here for you!



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