

HAFBOR

OFFSHORE
ANCHOR SYSTEM

THE EASY WAY TO INSTALL SCREW ANCHORS IN DEEP AND SHALLOW WATER

- ✓ Diverless installation
- ✓ Low environmental impact
- ✓ Accurate positioning
- ✓ Cost efficient
- ✓ Holding power up to 50 tons*
- ✓ Lightweight and portable
- ✓ Flexible design of anchors

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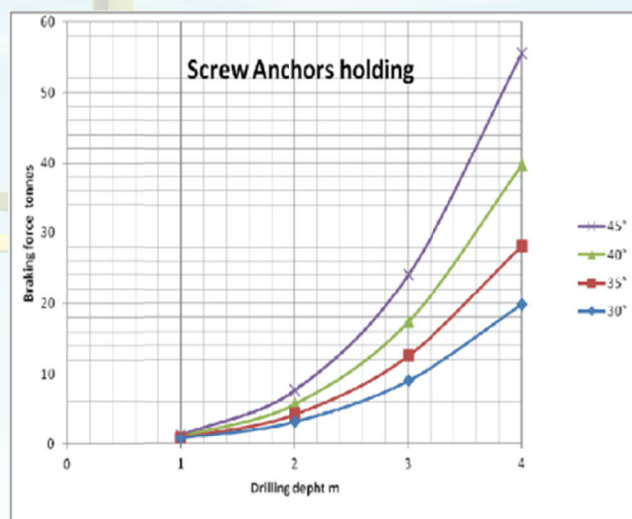
The HAFBOR anchor system is a new approach to installing screw anchor moorings without the assistance of divers at depth of water up to 70 meters+ (230 feet+). The drill machine is controlled from wheelhouse of installation boat with easy to use control unit and monitors.

Superior holding power

Screw anchors are known for their excellent pullout strength. 4 meter (12 feet) long screw anchors have calculated holding power ranging from 20 to over 50 tons (40,000-100,000lbs) depending on type of seabed and anchor design.

HAFBOR screw anchors can be custom designed to meet the requirements of different applications and necessary pullout strength. Various lengths of anchors and tying point configurations are available. Materials used are selected to fulfill design loads and required durability.

*Calculated holding capacities are offered as an application guide only. They do not represent a guarantee of holding capacity in a particular soil class. User must factor in his individual, appropriate safety factor.



Picture 2 Relation between withhold and drill-depth for different angle of friction in bottom soil

Vessel and drill machine requirements

The HAFBOR hydraulic powered drill machine weighs 750kg (1650lbs) and can be operated from any vessel with hoisting device stable enough to support 1000kg (2200lbs) extending 1 meter from the side, aft or front of vessel. The height of drill machine can be adjusted to accommodate different lengths of anchors. The hoisting device needs to have a deck clearance equal to the length of anchors +1 meter to spare.

Power supply requirements:

The power for the drill machine can be supplied by connecting to a portable generator or the integrated power supply of vessel/service boat.

Hydraulic system: 40 lpm flow @ 200BAR pressure.

Electrical supply:

For control unit: 12V or 24V DC

For monitor and cameras: 110V or 220V AC

NOTE: the system can be adapted to other electrical voltage and current.

HAFBOR recommends the use of environmentally friendly hydraulic fluids

**HAFBOR OFFERS WORLDWIDE TURNKEY INSTALLATIONS
AND LEASING OF EQUIPMENT OPTIONS**