

RACK

The RACK is a tubular frame that can carry the load of a regular PTM and lead it during the trenching operation. The RACK can operate on sand-rocky or coral seabeds, moving from the beach area up to a water depth of – 4 meters (in good marine conditions).

The basic characteristics of rack main frame are:

- ✓ Width: 8 meters
- ✓ Length: 11 meters
- ✓ Weight: 18 tons.
- ✓ Frame: Steel

The RACK main frame lays on 4 driving wheels of big capacity, having 2 meters diameter and 60 cm width; it can be lowered and lifted up to 5 meters.

The RACK and PTM control and power cabin is placed on the upper part of the main frame. The main frame moves along the pipeline, with two wheels per side and it leads the PTM with a system of winches and cranes that helps the operator during the PTM (post trenching machine) positioning on the pipe and during the trenching operation.

The advantage of this kind of equipment is that it can work on shallow water seabeds where naval means cannot, avoiding mooring issues.

The RACK is self-propelled, it moves on 4 driving wheels and the operator can easily control it. It autonomously moves along the pipeline, using it as a guide, also when the pipeline has already been buried: a regular PTM or a burying machine placed on the rack structure can be used; as a matter of fact, the PTM placed inside the main structure, allows the wheels to move freely, avoiding any damage to the pipe.

It is important to underline that, for safety reasons, the Rack is connected by means of a cable to winch placed on the beach area, which guarantees the retrieval of the equipment (helping the 4 driving wheels) in case it strands or if it has difficulties in moving.

The rack is to be considered as the result of years of post trenching works in shore approach and near shore areas. For this reason Sea invested time, engineering and money to create an equipment that is going to change the near shore field, because it is adjustable to post trenching equipment and to other equipment that can be used in this field.

In addition to post trenching works, the rack will be useful in those areas with shallow water depth seabeds, such as lakes, lagoons, canals, places where is impossible to work with normal barges.



