



UNDERWATER TRENCHING WORKS





SEA

Underwater Trenching Works

SEA S.r.l. (SEA) is an Italian Company that has been working for major Oil & Gas Companies all over the world, for more than 25 YEARS. SEA highly specializes in sea trenching works of pipelines (from 3" to 60") and cables.

From the design and building of its machinery (supervising the engineering part), to the execution of trenching works, SEA is able to provide a full pipeline/cable burial service to the Client.

The concept behind SEA's machine derives from particular necessities connected to the project and therefore to the evolution from a previous model: this guarantees extreme versatility of the machines, which are suitable to perform trenches in most types of seabeds and on products which vary in diameter.

The Company's headquarters is in Ravenna. However, SEA also has collaboration agreements in place with other companies in Europe and America, that render their offices/bases available to SEA's operations in various countries all over the world.

Some of the main Clients:





SHORE APPROACH

SEA specializes in carrying out post-trenching operations in shore-approach areas, even in hard seabeds, without having to build cofferdams or finger piers to support the works.

POST-TRENCHING OF PIPELINES



SEA pioneered the "post-trenching system" for the burial of pipelines and cables.

Its machines have been so innovative and functional, that they are often used as example by other Companies in the same sector.

SEA continues to design and use newer evolved versions.

The machines differ according to the product to be post-trenched (e.g. pipeline diameter) as well as project specifications.

Post-trenching intends burying a pipeline or cable already laid on the seabed, by creating a trench which is only a little wider than the actual diameter of the product itself.

Some of SEA's post-trenching capabilities are:

- Carrying out post-trenching operations on many Shore Approaches, without having to build cofferdams/finger piers to support the works;
- Trenching through very loose and very soft soil to hard material, including ROCK (up to 71 MPa in UCS) and high PLASTIC CLAY;
- Using in contemporary, various PTM spreads during the same project;
- Using just one PTM machine to trench different OD pipelines in the same project;
- Minimizing the dimensions of the trench in order to promote natural back-filling.



POST-TRENCHING OF CABLES



SEA specializes in trenching various types of cables (i.e. FOCs, umbilicals and power cables) during and/or after the the laying operations,

reaching burial quotas of up to 3 metres TOC per pass, even in shore approach areas.

