

Pipe & Cable Tensioners

Track type tensioners are used to provide the force needed to move a product from one area to another. In a product manufacturing process the tensioner is used to pull the weight of the product through the process to the storage medium. Whereas in offshore pipelay operations tensioners are used to support the outboard weight of the pipe catenary between the vessel and the seabed.



3 Tonne - 2 Track Tensioner used in the manufacturing process of tube umbilicals



120 Tonne - 4 Track Tensioner used in the laying of offshore rigid or flexible pipelines

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Tensioners consist of a number of caterpillar type track units mounted on a common support structure. The tracks are powered against the product by hydraulic cylinders or similar, thus providing the grip force. The amount of grip force required is dependent on the friction coefficient between the product and the pad material on the tracks. The tracks can be driven by electric or hydraulic motors.

The Tensioner can be mounted on load cells as required. Typical pipelay Tensioners monitor the outboard pipe tension as part of the lay process with feedback going to the lay speed setting or vessel DP system.

Main Features

- Tensioners can be provided in 2, 3 or 4 track formats to suit project requirements.
- Grip force can be provided to suit a wide range of product applications.
- Typical pad material is natural rubber to prevent product coating damage.
- Operating speeds can be provided to suit the process application.
- PLC control of grip force and payout speeds.
- Large range of product diameters can be accommodated.
- Grip force and track drive fail safe systems.
- Single unit or in-series operational set-up options.
- Large range of standard designs available to cover range of pipe diameters and desired tension capacity i.e. 1Te to 275Te.
- Individual and conceptual designs also available.

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Typical 2 Track Tensioner with fixed height bottom track. Tensioners can be provided with horizontal or vertical tracks as shown above.



Typical 4 Track 40Te Tensioner mounted in a lay ramp. Tensioner is shown with test pipe for load testing.



Typical 3 Track Tensioners



4 Track 150Te Tensioner under construction as part of a vertical tower lay system. The Tensioner is constructed in sub-assemblies and then brought together as a unit within the tower.

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Along with the Tensioner and its control system we can offer a full turnkey package of handling equipment that includes storage reels & carousels, pipe straighteners, clamps, winches, sheaves and support rollers. Whatever your rigid or flexible pipe, umbilical or cable handling requirements are we can provide the equipment to meet your needs.

Visit our Web Sites
www.amclyde-norson.co.uk
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