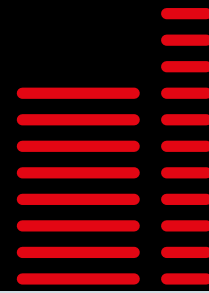


When Strength Really Matters



LIFTING, HANDLING & MOORING SOLUTIONS FOR FPSO's



Trust is fundamental for powerful and reliable lifting equipment as well as Mooring lines located on Floating Production, Storage and Offloading (FPSO) units offshore. However, powerful and reliable equipment alone is not the only factor for success. The control system must also be accurate, reliable and easy to operate. System parameters must be displayed to allow safe, reliable and controlled operation of equipment or system.

But most of all it is important for the client that the solution provider and equipment supplier has a thorough and good understanding of the complete process and the sequence in which the equipment has to perform.

AXTech and SAS hold such knowledge.

Our skills and long experience as a reliable solution provider ensures established and well funded solutions for special lifting, handling and mooring equipment.

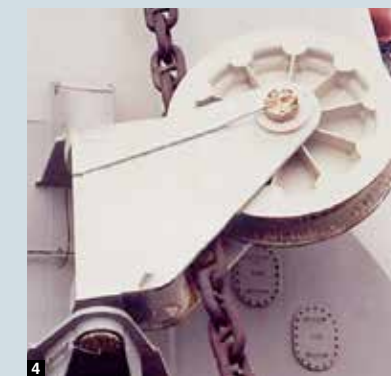
Correct and fast installation of production risers as well as production buoys is extremely important for the operator and client in order to do all hook-up work in a safe manner and within schedule.

AXTech delivers a full range of various Pull-in applications based on well known and proven principles, but still designed to suit client's special requirements. AXTech deliver Pull-in Systems for both spread moored (Riser Balcony) or turret moored vessels as well as for various types of production buoys.

Lifting/ pulling capacity may vary from typically 30T to 1000T (single line pull-in capacity) pending on client's requirements. Winches are provided for both steel and fiber rope applications.

SAS Offshore delivers a comprehensive range of mooring equipment and deck machinery for various offshore applications. For floating production units SAS delivers mooring equipment such as Chain Tensioners (Rotary or Linear Chain Jacks), Underwater Fairleads, Chain Stoppers and Horizontal Windlasses. Other deck equipment in the SAS FPSO portfolio are Offloading Hose reels, Hawser Winches and Tandem Mooring Systems.

AXTech and SAS are engineering companies that tailors Heavy Lifting Equipment and special equipment related to Material Handling for the marine and offshore industry. Equipment that has been especially adapted to the specific tasks in which it is meant to perform.



1 Peregrino FPSO 2 600Te Buoy/Riser Pull-in Wich
3 Hose Loading Station 4 Fairlead 5 Special crane

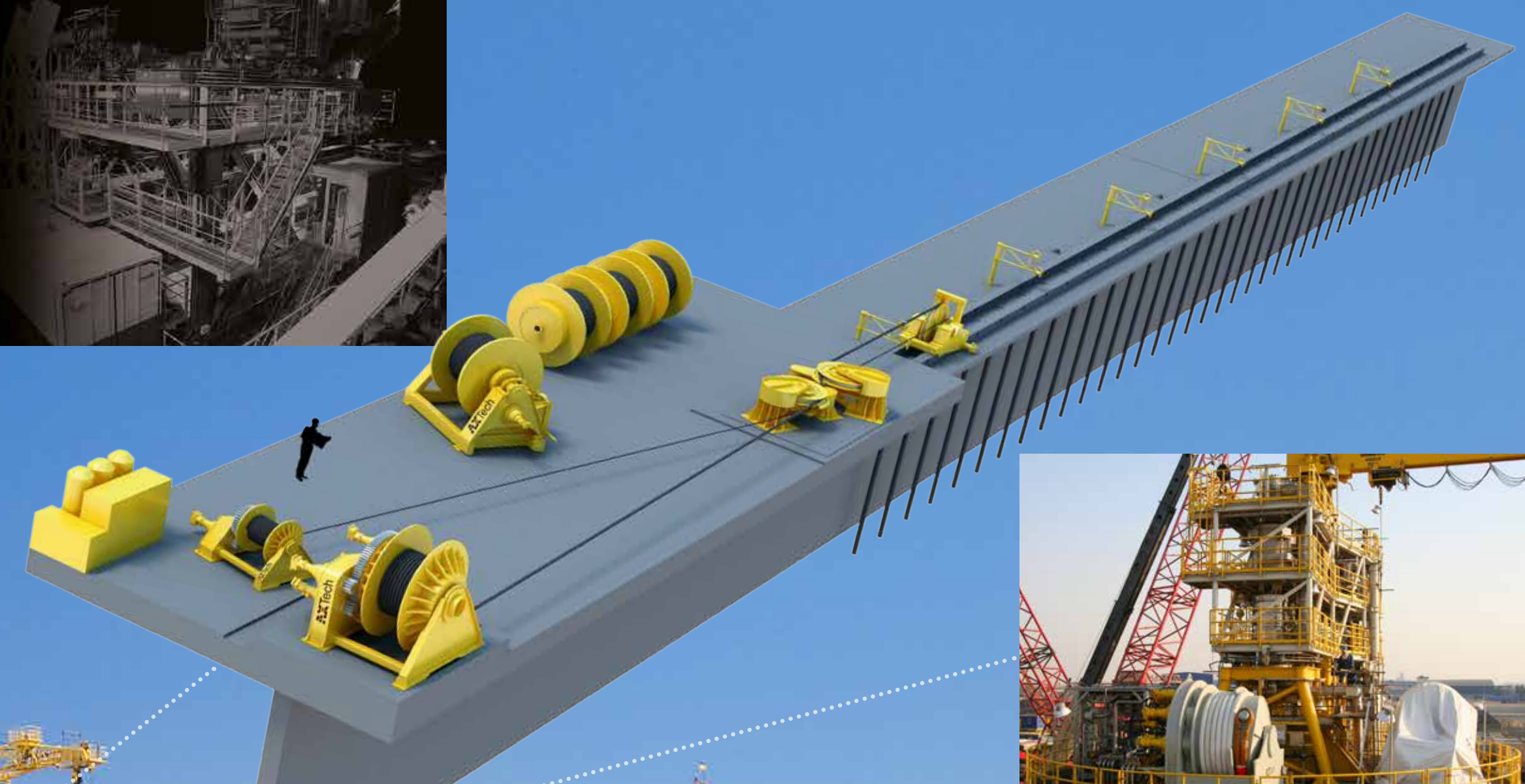
Complete packages for Riser and Turret/ Buoy Pull-in as well as Mooring solutions



Offloading



500Te Buoy/Riser Pull-In Winch



Riser Balcony Pull-in System



Pull-in / Release Winch in Turret area



Chain Jacks



Mooring Fairleads



165Te Pull-In Winch

