



PROGRESSING CAVITY PUMPING SYSTEMS

At Tierra Alta, our focus is extensive R&D engineering, testing and process control which is essential to manufacturing high quality product.

Our Facility - is a world class manufacturing center in Maracaibo, Venezuela. Tierra Alta is the only PCPS supplier that is manufacturing 100% under one roof. The manufacturing process equipment in this facility is state of the art insuring superior quality products. Being customer driven with complete control over in house manufacturing allows us to offer products designed for a specific application, providing a true solution.



Our Support - Having a quality product is only part of the solution. The manufacturing facility is supported by the strongest application support and engineering team in the industry. Understanding how the elastomer will react with specific well parameters and adjusting the rotor/stator fit accordingly is the key to success.

Our application support team and design engineers are ready to work with the customer to develop an accurate representation of each specific application. Technical consideration of key completion and production details allow us to recommend the best PCPS to optimize production and minimize workover frequency.

By integrating our engineering, manufacturing and support teams Tierra Alta offers high quality product applied properly to ensure our customer's success.



Our Product - Allowing our customers direct access to our plant is a novel approach. No longer is the producer forced to select a pump from a supplier's product catalogue. Tierra Alta's initial product offering is a compact encompassing solution but will evolve as customer requirements develop.

Our Elastomers - Tierra Alta is strategically aligned with world leaders in elastomer development technology. This ensures that we not only have industry leading elastomers available today, but also that we have ongoing elastomer development to widen the application window for PCPS.

NBR-M6 (Buna) is the workhorse elastomer of the Tierra Alta product line. A Medium Nitrile Buna elastomer designed to provide exceptional mechanical properties for the aggressive dynamic environments PCP's are exposed to. Specifically designed to be utilized in heavy oil, high abrasive content wells, with water cuts ranging from 0 to 100%. Meaning NBR-M6 is also well suited for de-watering gas wells. NBR-M6 has good chemical swell resistance, excellent water swell resistance and can operate in wells up to 100°C.

NBR-M6 Soft (Buna) has similar mechanical properties to the standard NBR-M6, with a lower durometer elastomer specially formulated for high sand/abrasive applications. Because the elastomer is softer it will conform to and rebound abrasive particles without tearing, resulting in extended run times in difficult applications.

NBR-H1 (HN) is designed to provide similar mechanical properties to NBR-M6, however the compound is a High Nitrile, formulated specifically to resist chemical swell, primarily associated with higher aromatic content fluids, such as medium and light oil. NBR-H1 has exceptional chemical swell resistance, excellent water swell resistance and can operate in wells up to 120°C.

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