

地面驱动螺杆泵

SURFACE DRIVE PROGRESSIVE CAVITY PUMPS

地面驱动螺杆泵主要由地面驱动装置和井下螺杆泵两部分组成。地面驱动装置将井口动力通过抽油杆的旋转运动传递到井下，驱动井下的螺杆泵工作；螺杆泵是一种容积式泵，它依靠转子在定子中旋转，形成一系列空腔，从吸入端向排出端渐进，连续完成井底吸液和向井口排液。

The surface drive progressive cavity pump consists of a surface drive and a downhole progressive cavity pump(PCP). The surface drive transmits power to downhole PCP through the rotating motion of the sucker rod. PCP is a positive displacement pump. The rotor rotates within the stator, thus series of cavities are formed and progress gradually from the suction end to the discharge end. The formation fluids are then forced continuously from downhole to surface.

具有能耗低，节电效果明显；检泵周期长；适应范围广等优点。可用于高粘度、含砂、含气油井的开采。实现排量范围1~400m³/d，最大下泵深度2000米。

The unit features apparent energy saving, long pump inspection period and wide range of well applications. It is suitable for high viscous, sand cut and live well production, with displacement ranging from 1 to 400m³/d and maximum landing depth of 2000m.

公司设有专门的橡胶研发部门和实验室，可以根据井液中芳香烃含量、固体颗粒物含量、是否含硫化氢、二氧化碳等化合物，以及井温等综合井况，为不同用户和不同用途的螺杆泵提供最合适的定子橡胶产品。

Specialized rubber R&D department and lab can safeguard that the most suitable stator solutions to be provided to customers, with an eye on factors such as well fluid aromatic hydrocarbon and solid particle content, chemical compound existence of hydrogen sulphide and/or carbon dioxide, and well temperature.

