

Low Maintenance Lift

High Volume production



The operation to kick-off a well using a Jet Pump is an extremely effective technique for reviving wells that are either dead or not producing. This approach is especially beneficial in the oil and gas sector, where quick and efficient solutions are often necessary to bring wells back to full productivity.

No Moving Parts

Rig less Intervention

Jet pumps feature a compact and durable design with no moving parts, significantly reducing the risk of equipment failure, even in the most challenging wellbore conditions. The system can be deployed without a rig, as the pump is installed downhole and can be retrieved by circulating power fluid to move it up the wellbore. Once installed, jet pumps operate reliably with minimal operational intervention and require virtually no maintenance.

Jiach Energy Solutions, in collaboration with Global Petroleum Technologies, brings a long-standing legacy of innovation and expertise in jet-pump lifting systems. Through comprehensive well evaluation and the careful selection of completion design and power fluid, our in-house engineering team develops optimized solutions tailored to each well's requirements.

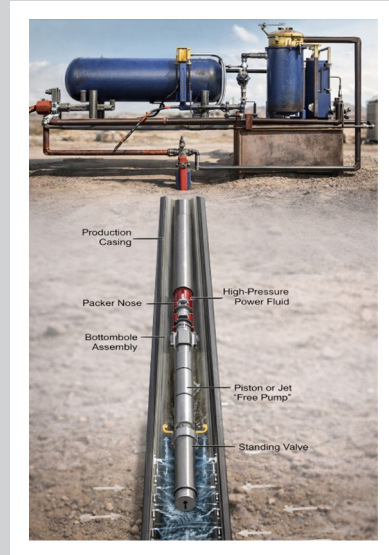
Today, Jiach Energy Solutions delivers robust and comprehensive jet-lift solutions, including multi-well configurations operating with a single pump, versatile surface equipment, and reliable technical support. Our integrated approach ensures efficient performance, operational flexibility, and enhanced production across a wide range of well conditions.

Working of Jet Pump

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Benefits of Jet Pump

- Engineered Designs for your needs
- High Solids Tolerance
- The Best in Corrosion Resistance.
- Minimal Maintenance
- Consistent Uptime
- Seamless Transition to Other Lift Systems
- Economic Longevity.



Surface Equipment

Jet Pumps and Hydraulic Plunger Pumps utilize a shared surface power-fluid system that can operate multiple wells from a single unit or be arranged for dedicated operation on individual wells. The system filters, treats, and pressurizes reservoir fluid to drive the jet pump effectively.



Our plunger pumps are available in power ratings ranging from 50 to 400 HP, powered by electric motors or mechanical drives. A three-phase separation unit processes the produced fluids by separating oil, gas, and water, allowing the conditioned power fluid to be reused in the system.



All pumps and pressure vessels are constructed from corrosion-resistant materials, providing dependable operation, extended equipment life, and suitability for harsh oilfield conditions.

Downhole Jet pump

A Straddle Jet Pump Solutions

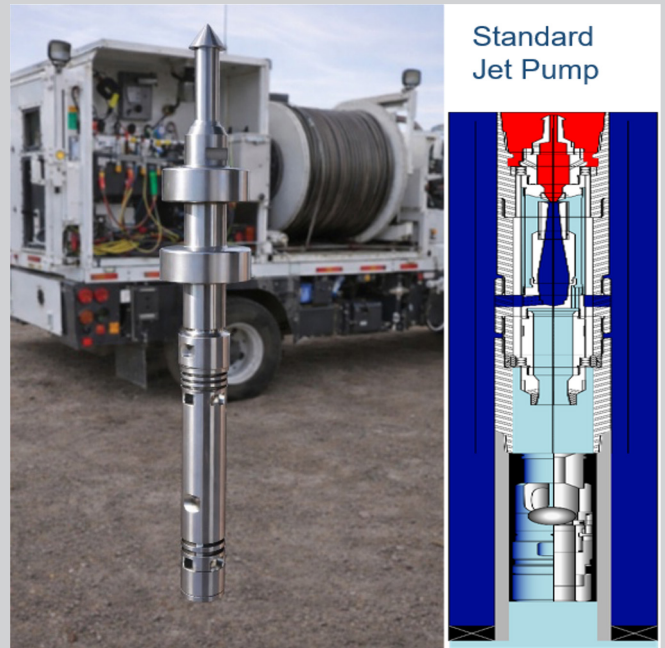
GPT provides two efficient solutions to straddle a jet pump: Rigless Installation and Through-Tubing Deployment. These solutions are designed to improve operational flexibility while minimizing intervention costs and downtime.

The Fixed Reverse Flow Straddle Jet Pump features larger internal flow passages, enabling higher production rates and improved lifting capacity. This design is particularly suitable for wells requiring enhanced flow performance and efficient artificial lift operations.

The Coiled Tubing Jet Pump offers a recoverable jet pump solution with outer diameters of 1 1/4" or 1 1/2", allowing the pump to be retrieved without pulling the entire straddle pack-off assembly. This significantly reduces intervention time and operational costs. However, this system operates with direct fluid circulation only.

The Coiled Tubing Jet Pump also incorporates the High-Volume Concept, where the Bottom Hole Assembly (BHA) is designed with larger internal flow passages to maximize inflow capacity and improve overall production performance.

Both jet pump models are manufactured using high-grade alloy corrosion-resistant materials and are coated with Diamond-Like Carbon (DLC). This advanced coating provides exceptional corrosion protection, superior erosion resistance with hardness exceeding that of diamond, and reduced internal friction by lowering the Reynolds value. These features ensure maximum durability, efficiency, and reliability, making these jet pump systems best in their class.



Jet Pump Capacity

tubing Size	Type of Pump	Production Rate
1 1/4"	1 1/4" High Vol	500 BPD
1 1/2"	1 1/2" High Vol	1000 BPD
2 3/8"	2" STD	1500 BPD
2 3/8"	2" High Vol	3000 BPD
2 7/8"	2 1/2" STD	2500 BPD
2 7/8"	2 1/2" High Vol	6000 BPD
3"	3" STD	10,000 BPD
3"	3" High Vol	20,000 BPD

Parameter Specification

Operating Depth	1100 to 5000 M
Operating temperature	50 to 400 deg C
Total Volume	500 to 20000 BPD