TMK Completions
Multi-Stage Fracturing Systems
About TMK Completions

TMK Completions is a leading provider of multi-stage well completion technologies and downhole completion tools for the oil and gas industry. Our experience extends over a wide range of well environments and we have the expertise to engineer, strategize and execute even the most challenging well completions.

As a part of OAO TMK, one of the world’s leading producers of tubular products and premium connections, TMK Completions has an unmatched capability to combine the company’s industry proven technologies with its vertically integrated production competencies in delivering customizable well completions solutions at the lowest total cost of ownership (TCO).

In this unique value proposition for our customers, TMK Completions offer multi-stage completions systems both separately and in bundles with oilfield tubulars and associated services for additional potential cost savings opportunities and long-term benefits that stretch beyond purchase price.

TMK OCTG tubulars:
- Casing and tubing
- API & Proprietary
- Sizes 2-3/8" to 16"
- Seamless and welded

TMK UP ULTRA™
Some of the strongest and most efficient premium connections available on the market.

TMK Completions
Innovative multi-stage fracturing systems and tools for cemented and uncremented designs.

Oilfield Services
- Running supervision
- Testing and inspection
- Pipe and thread repairs
- Inventory management

Our Multi-Stage Fracturing Systems

TMK Completions offer a wide range of multi-stage systems and tools for both uncremented and cemented well completion applications:

- TMK QUANTUM and TMK QUANTUM CM ball-actuated sleeve systems
- TMK QUANTUM Infinity – sleeve system for unlimited number of stages
- TMK QUANTUM CT – coiled tubing shifted sleeve system
TMK Completions
Openhole Multi-Stage Fracturing Sleeve Systems

TMK QUANTUM
- Graduated ball-actuated sliding sleeve system
- Designed for uncemented wellbores
- Suitable for ultra-high concentration fracs
- Compact design provides fast field installation
- Flexible string assists in getting to TD
- Deployed with openhole packers:
  - TMK MicroSEAL hydraulic set packers
  - TMK SwellSEAL swellable packers
- Standard phenolic or dissolvable frac balls
- Seats quickly mill out to full monobore ID
- 10000 or 15000 psi differential pressure
- Available in sizes 4.5" and 5.5" & up to 44 stages
- API or TMK UP ULTRA™ premium threads

TMK QUANTUM Infinity

TMK QUANTUM Infinity is an unlimited stage fracturing system, which delivers significant operational time and costs savings.

- Single-size ball-actuated sliding sleeve system
- Designed for uncemented wellbores
- Truly unlimited number of frac stages and lateral length
- Single or multiple sleeves per stage
- Nothing to mill out, near full bore completion post fracturing
- Decreased horsepower requirement and crew size
- Deployed with openhole packers:
  - TMK MicroSEAL hydraulic set packers
  - TMK SwellSEAL swellable packers
- Standard phenolic or dissolvable frac balls
- Available in sizes 4.5" and 5.5"
- API or TMK UP ULTRA™ premium threads
Openhole Annular Isolation

**TMK MicroSEAL Packer**

TMK MicroSEAL packers are hydraulic set openhole packers, which can be deployed as part of TMK QUANTUM uncemented sleeve systems.

- Modular design allows multiple packers per stage
- Up to 15000 psi differential pressure ratings
- Available in sizes 4.5" and 5.5"
- API or TMK UP ULTRA™ premium threads

**TMK SwellSEAL Packer**

TMK SwellSEAL packers use swellable elastomer technology to provide a reliable annular isolation.

- Elite oil- or water-swellable compounds
- For low- and high-salinity concentrations
- +50°F to +320°F operating temperatures
- Element lengths up to 15ft. per packer
- Available in sizes 4.5" and 5.5"
- API or TMK UP ULTRA™ premium threads

Openhole Targeted Frac Initiation

**TMK Frakker Tool**

TMK Frakker integrates seamlessly into TMK QUANTUM systems when placed between the openhole packers for even greater reliability of stage isolation and effective frac stimulation performance.

- Targeted fracture placement
- Greater formation coverage
- Optimal frac performance
- Lower frac initiation pressures
- Improved stage isolation
- More effective water/fluid usage
TMK Completions
Cemented Multi-Stage Fracturing Sleeve Systems

TMK QUANTUM Cluster CM

- Ball-actuated cemented sleeve system
- Designed for cemented wellbores
- Multiple sleeves per stage achieve maximum stimulation across the entire target interval
- Optimal fracture density and formation coverage
- More control over fracture initiation
- Standard flow-back or dissolvable frac balls
- Seats quickly mill out to full monobore ID
- Available in size 5.5" & up to 44 stages
- API or TMK UP ULTRA™ premium threads

TMK QUANTUM CT

Coiled Tubing (CT) shifted sleeve system

- Designed for cemented wellbores, but can be deployed openhole
- Full bore completions after fracturing, nothing to mill out
- Accurate fracture placement and initiation
- Improved cycle time efficiency and reduced water requirement
- Available in sizes 4.5" and 5.5"
- API or TMK UP ULTRA™ premium threads
TMK AlphaPORT Cementable Toe Frac Sub

A standard component in all TMK QUANTUM systems, TMK AlphaPORT can also be utilized as the 1st stage in Plug and Perf completion designs, eliminating the need for TCP.

TMK AlphaPORT is activated with application of differential pressure to the tubing string. Field adjustable shear screws allow selective activation pressure of the toe sub.

- Available in sizes 4.5" and 5.5"
- API or TMK UP ULTRA™ premium threads

TMK OMEGA Composite Frac Plug

- Ball drop type frac plug used for zonal isolation
- Compatible with Plug and Perf designs
- Set with Baker 10 and 20 Setting Tools
- 10000 psi pressure rating
- +150°C/+300°F operating temperature rating
- Drillout time under 20 min. per plug
- Available in sizes 4.5" and 5.5"
- Tested to API Spec 11D1 V4

TMK OMEGA Composite Bridge Plug

- Bridge plug used for zonal isolation
- Compatible with Plug and Perf designs
- Set with Baker 10 and 20 Setting Tools
- 10000 psi pressure rating
- +150°C/+300°F operating temperature rating
- Drillout time under 20 min. per plug
- Available in sizes 4.5" and 5.5"
- Tested to API Spec 11D1 V4