Frank's International has engineered unique solutions for optimizing drilling performance. Frank's works collaboratively with customers to mitigate the challenges associated with extended reach wells and complex formations, such as vibration, casing wear, hole cleaning, lost circulation, flow back, RSS and bit failure, and excessive torque. We have a growing track record reflecting the significant time and cost savings we have passed on to our customers. Additional information is available on the Company’s website, www.franksinternational.com.

**VERSAFLO™**

**Benefits**
- Drill pipe and casing flowback/circulation capability
- Casing module is efficiently rigged down with a special breakout plate that holds the backup against the rig’s bails
- Drill pipe module is ready to stab into the landing string after connecting a packer cup
- Hydraulically-operated piston allows stabbing into the drill string for circulation and flowback operations
- Compact tool design allows the use of 16-foot bails based on rig survey

**Applications**
The VERSAFLO™ tool is designed for circulation and flowback operations of both casing and drill pipe. It is primarily designed to work with drilling rigs equipped with top drive systems. The complete system incorporates a casing module connected to a drill pipe module with a special crossover sub. Other applications include:
- Deepwater fill-up, flowback
- Washing down casing and circulation
- Surge reduction
- Circulation while tripping
- Landing strings
- Open hole completions
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VERSAFLO™ CASING AND DRILL PIPE FLOWBACK & CIRCULATION TOOL

Improves trip time | Reduces mud contamination on the rig floor | Reduces surge and swab
Benefits

• Reduces non-productive time (NPT) by limiting lateral and axial vibration problems in difficult formations
• Reduces the dynamic interaction between the bottom-hole assembly (BHA) and drill bit through a spherical spline connection
• Decouples the BHA and mud motor harmonics from the drill bit
• Decouples the BHA from the drill string harmonics in severe drilling applications
• Allows the drill bit to dynamically self-center
• Improves productivity and milling performance

Applications

Vibration is typically the most common cause of (NPT) for the operator and suppliers of complex MWD/LWD equipment. The HI TOOL® is an on-bottom drilling tool designed to reduce vibration generated by the drill bit or drill string dynamics.

Other applications include:
• Top drive protection
• Hole corkscrew reduction
• Bit protection
• MWD/LWD/RSS protection
• Directional accuracy
Benefits

• One-piece mandrel with mechanical properties exceeding the specification of the drill pipe

• Overall dimensions permit use within standard drilling stand and average derrick height

• Dual sleeve retention mechanism provides downhole reliability

• Improves reliability and integrity under severe downhole conditions

• Designed for cased and open hole applications

Applications

The DSTR™ is a drill string tool intended for use in deviated wells where excessive rotary torque causes drilling and casing wear problems. The DSTR™ tool can reduce casing wear across the build section. For a given deviation profile, the applications program assists in maximizing the tool’s performance by determining the deployment in the critical sections of the borehole. For most extended reach drilling (ERD) applications, the tools are used in the build sections of the borehole, helping to extend the envelope of rotary drilling.

Other applications include:
• Casing wear reduction
• String torque reduction
• Buckling risk mitigation
• String stick-slip reduction
• Casing and tool joint heat checking

DSTR™ DRILL STRING TORQUE REDUCER
Improves energy transfer to bit | Improves wellbore integrity | Reduces string slip-stick
Benefits

• Reduces torque and drag on the string while in drilling mode
• Helps prevent twist-offs
• Ensures cleaner and more stable hole conditions
• Eases tripping and subsequent casing running
• Improves mud log interpretation

Applications

The CBI™ tool is a downhole drill string tool intended for use in deviated wells where excessive build-up of cuttings causes drilling problems, typically in hole angles greater than 30°. The CBI™ tool is an integral drill string component consisting of a short one-piece mandrel with no moving parts, and mechanical properties exceeding the specification of the drillpipe. Its hydraulic and mechanical dual acting mechanism removes cuttings beds inside the casing or in open hole. It is shaped in such a way as to agitate any cuttings which have a tendency to settle out of the mud in the high angled sections of the wellbore.

Other applications include:
• Reduces stuck BHA
• Improves ECD (Equivalent Circulating Density) control improvement
Frank’s International has engineered unique solutions for optimizing drilling performance. Frank’s works collaboratively with customers to mitigate the challenges associated with extended reach wells and complex formations, such as vibration, casing wear, hole cleaning, lost circulation, flow back, RSS and bit failure, and excessive torque. We have a growing track record reflecting the significant time and cost savings we have passed on to our customers. Additional information is available on the Company’s website, www.franksinternational.com.