



Advanced Drilling Equipment.
Professional Technical Support.

About

TSS Drilling Services is a global provider of high-performance drilling equipment and professional technical services. We specialize in the reliability, modernization, and lifecycle support of automated drilling systems and rig-critical assets.

With strong engineering capability, OEM-equivalent component manufacturing, strategic spare inventory readiness, and integrated field support, TSS helps drilling contractors minimize NPT, safeguard uptime, and achieve predictable operational performance.

We deliver confidence in drilling—through engineered precision, strategic supply, and trusted technical intelligence.

DISCLAIMER & COMPATIBILITY STATEMENT

TSS Drilling Services provides high-performance components and automated solutions engineered to be fully compatible with equipment from major industry manufacturers, including but not limited to: National Oilwell Varco (NOV), MHWirth, Gardner Denver, Continental Emsco, Shaffer, Hydralift, Varco, Maritime Hydraulics, Wirth, and other leading brands.

TSS Drilling Technologies is an independent integrated supplier of premium drilling equipment and automated solutions. We are not an authorized licensee, nor are we affiliated with any of the Original Equipment Manufacturers (OEMs) mentioned above. All manufacturer names, trademarks, and logos used herein are for identification and compatibility reference purposes only. Their use does not imply any endorsement, sponsorship, or affiliation with the respective trademark holders.

All products supplied by TSS Drilling Technologies are manufactured to meet or exceed rigorous industrial standards, ensuring seamless integration into your existing fleet while significantly optimizing operational costs and project timelines.

Maximize Efficiency | Minimize Cost | Accelerate Your Projects

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ENGINEERED CUSTOM SOLUTIONS

TSS™ Specialized Showcases:
Tailor-Made Components for
Complex Drilling Environments



COMPONENTS: HIGH-PERFORMANCE RLA STEM



RLA STEM



RLA GEAR



Core Functions & Engineering: The TSS Drilling Technologies Stem is precision-engineered for seamless integration at the base of the motor housing. It serves as the central hydraulic distribution hub for the pipe handler system.

Advanced Fluid Distribution: Hydraulic fluid is channeled from the main manifold into the stem via optimized radial passages.

Omni-Directional Operation: Fluid is delivered to all pipe handler actuators through high-precision grooves, ensuring consistent hydraulic performance whether the system is in continuous rotation or at a stationary position.

Heavy-Duty Performance: Recognizing the high-frequency operational demands of modern drilling, our stems are manufactured with enhanced wear-resistant materials to extend the intervals between Routine Inspection & Maintenance (R&I).

Seamless Compatibility: Our RLA Stems are fully compatible with and serve as a premium replacement for NOV Varco Top Drive series, including:

IDS Series: IDS-350P / IDS-4A

TDS Series: TDS-9S / TDS-10S / TDS-11S / TDS-8S / TDS-1000A

COMPONENTS: PRECISION RLA STEM (HPS SERIES)



RLA STEM



RLA SEAL KIT



Operational Functions: Designed for heavy-duty cycle operations, the TSS Drilling Technologies Stem serves as the mission-critical hydraulic interface at the base of the motor housing.

Advanced Hydraulic Transfer: The system efficiently channels hydraulic fluid from the main manifold into the stem's upper radial passages.

Uninterrupted Flow Management: Even during high-speed rotation or in static positions, hydraulic fluid is distributed to all pipe handler actuators through precision-machined fluid grooves, ensuring 100% operational uptime.

Engineered for Longevity: To address the challenges of high-frequency operations, our stems utilize high-tensile alloy steel and proprietary surface treatments, significantly reducing the frequency of R&I (Removal & Inspection) cycles.

Direct Compatibility: This RLA Stem is engineered to be a direct-fit, high-reliability replacement for NOV Hydralift Top Drive models, including:

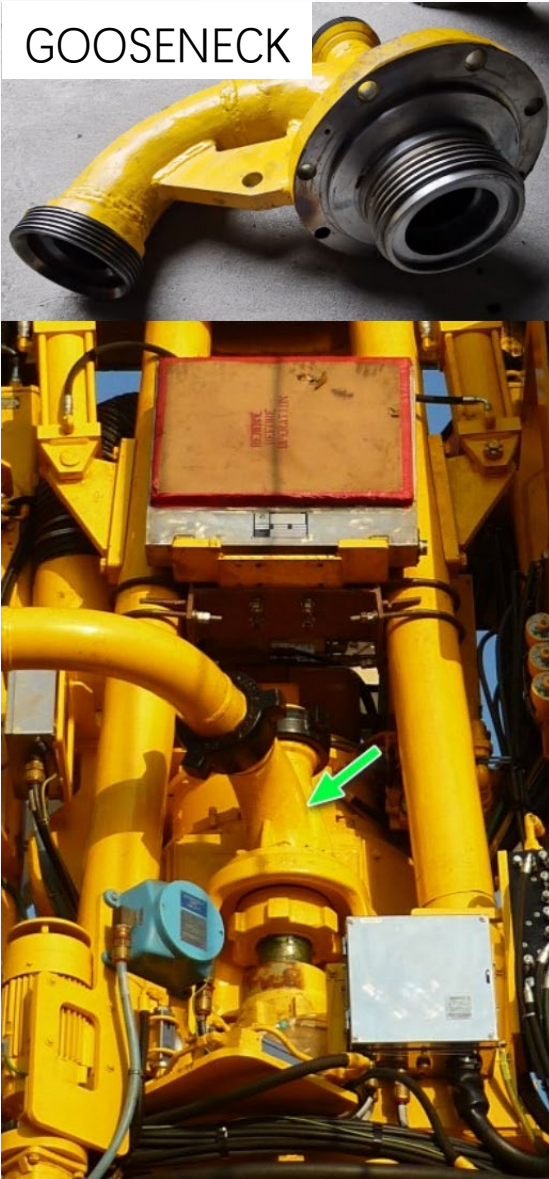
HPS-03 Series: HPS-03-750 / HPS-03-1000

HPS-04 Series: HPS-04-650 / HPS-04-750

COMPONENTS: HIGH-PRESSURE REINFORCED GOOSENECK



GOOSENECK



Technical Functions & Durability: The TOP SHAKER SCREEN Gooseneck is a critical high-pressure conduit mounted onto the bonnet, serving as the primary bridge between the S-pipe and the washpipe assembly.

High-Pressure Fluid Management: Engineered to withstand extreme hydraulic forces, it facilitates the seamless transfer of high-pressure drilling mud into the drill string.

Erosion Resistance: To combat the common industry challenge of "washout" caused by high-velocity and high-pressure fluid flow, our goosenecks are manufactured using premium abrasion-resistant alloys with reinforced internal walls.

Optimized Internal Geometry: The internal flow path is precision-machined to minimize turbulence, significantly extending the service life and reducing the frequency of R&I (Removal & Inspection) cycles.

Universal Compatibility: Our Goosenecks are designed for perfect fitment and high-performance replacement across a broad range of industry-standard Top Drives:

NOV Varco TDS Series: TDS-8S / 9S / 10S / 11S / 1000A

NOV Varco IDS/TDX Series: IDS-350PE / IDS-4A / TDX-1000 / 1250

NOV Hydralift HPS Series: HPS-04-650 / 750 / 1000

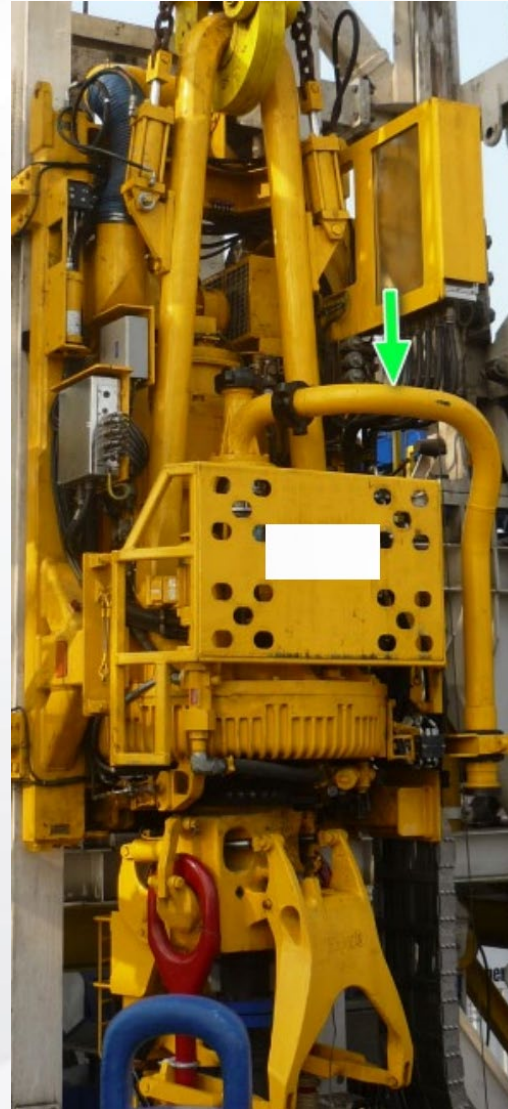
COMPONENTS: REINFORCED HIGH-PRESSURE S-PIPE



S-PIPE



S-PIPE



Technical Functions & Performance: The TSS Drilling Technologies S-Pipe serves as the vital high-pressure link between the mud hose and the gooseneck assembly. It is engineered to channel drilling fluids at maximum flow rates into the drill string.

Advanced Erosion Control: Given that S-Pipes are highly susceptible to "washout" due to the extreme turbulence and velocity of drilling mud, our pipes are manufactured using ultra-high-grade forged alloy steel for superior wall strength.

Structural Integrity: Each unit undergoes rigorous pressure testing and non-destructive examination (NDE) to ensure reliable performance under peak operational loads.

Extended Service Life: By implementing precision-radius bends, we minimize internal flow friction, reducing wear and extending the intervals between Routine Inspection & Maintenance (R&I).

Universal Compatibility: Our S-Pipes are precision-manufactured to be fully interchangeable with the following Top Drive systems:

NOV Varco TDS Series: TDS-8S / 9S / 10S / 11S / 1000A

NOV Varco IDS/TDX Series: IDS-350PE / IDS-4A / TDX-1000 / 1250

NOV Hydralift HPS Series: HPS-04-650 / 750 / 1000

COMPONENTS: HEAVY-DUTY S-PIPE (MH DDM SERIES)



S-PIPE



S-PIPE



Design & Operational Logic: The TSS Drilling Technologies S-Pipe is specifically engineered for high-torque, heavy-duty Top Drive systems. It provides the critical fluid conduit between the standpipe mud hose and the gooseneck assembly.

High-Volume Flow Endurance: Specifically reinforced to handle the extreme flow volumes and pressures typical of deep-well drilling operations.

Superior Washout Protection: Utilizing heat-treated chromium-molybdenum alloy steel, our S-Pipes are built to resist the internal scouring (washout) caused by abrasive drilling fluids.

Precision Fitment: Manufactured to exacting tolerances to ensure a leak-proof seal and perfect alignment, even under intense vibration and thermal expansion.

Maintenance Optimized: Designed for rapid R&I (Removal & Inspection), helping crews minimize non-productive time during routine safety checks.

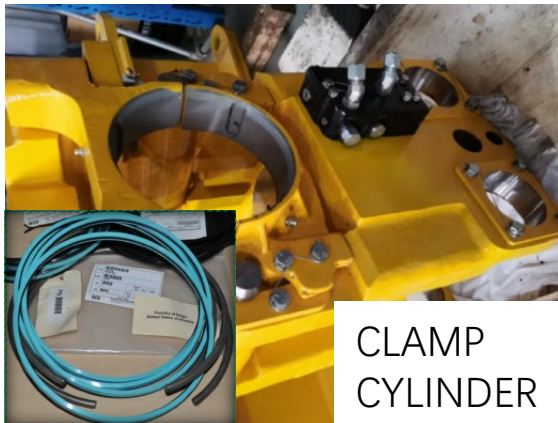
Direct Compatibility: This heavy-duty S-Pipe is engineered as a high-performance, direct-replacement solution for:

MHWirth (MH) Top Drive Series: DDM-650 / DDM-1000

COMPONENTS: INTEGRATED TORQUE ARRESTOR ASSEMBLY



PIPE HANDLER



Operational Functions & Strategic Value: The TOP SHAKER SCREEN Torque Arrestor Assembly is a heavy-duty safety and operational module suspended from the RLA (Rotating Link Adapter). It is designed to provide robust backup support during makeup and breakout operations.

Full-Height Connectivity: Engineered to provide reliable backup torque at any position within the derrick, ensuring seamless connections across the entire drilling cycle.

Superior Gripping Power: Our clamp wrench mechanism utilizes hardened high-grip inserts, ensuring a secure hold on the tubulars while minimizing damage to the pipe surface.

Fatigue-Resistant Design: Specifically reinforced to withstand the extreme torsional stresses of high-frequency operations. By utilizing premium fatigue-resistant alloys, we have significantly extended the operational lifespan of the core clamping components.

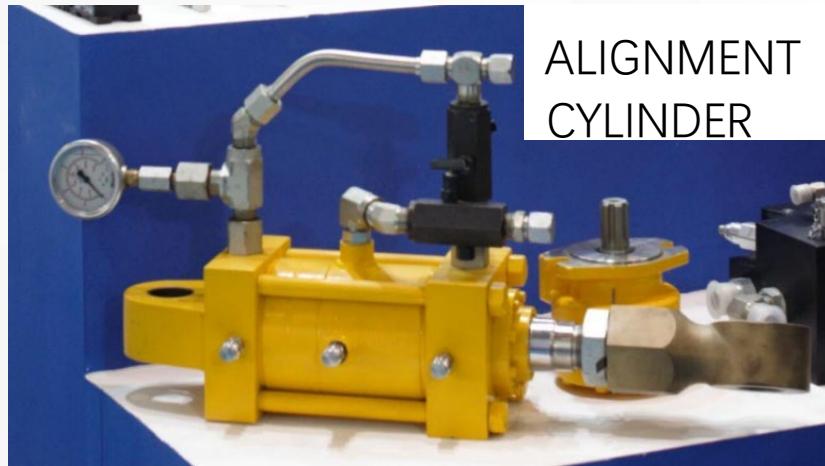
Rapid Maintenance: The assembly features a modular design for the clamp wrench, allowing for faster R&I (Removal & Inspection) and minimizing non-productive time (NPT) on the rig floor.

Universal Compatibility: Our Torque Arrestor Assemblies are engineered for seamless integration and direct replacement on leading Top Drive models:

NOV Varco TDS Series: TDS-8S / TDS-9S / TDS-11S / TDS-1000A

NOV Hydralift HPS Series: HPS-04-650-SG / HPS-04-750-SG

COMPONENTS: PRECISION MOTOR ALIGNMENT CYLINDER



ALIGNMENT
CYLINDER



Core Functions & Structural Integrity: The TSS Drilling Technologies Motor Alignment Cylinder is a high-performance hydraulic actuator strategically installed between the lower gearcase and the motor frame. It acts as the "balancing stabilizer" for the top drive unit.

Dynamic Vertical Stabilization: The system ensures the top drive maintains a precise vertical orientation at all times—whether the main shaft is engaged with the drill string or operating in a neutral state. This prevents secondary wear on the rotary components.

Variable Load Resilience: Specifically engineered to absorb the high-variable loads and operational shocks inherent in heavy drilling. Our cylinders feature reinforced piston rods and heavy-duty mounting points.

High-Frequency Sealing Technology: Equipped with premium, multi-stage seal kits that are resistant to hydraulic pressure spikes, significantly extending the time between Routine Inspection & Maintenance (R&I).

Industrial-Grade Finish: All cylinders undergo strict pressure testing and feature a corrosion-resistant coating for long-term reliability in onshore and offshore environments.

Seamless Compatibility: Our Motor Alignment Cylinders are engineered for direct fitment on the following NOV Varco models:

TDS Series: TDS-3S / TDS-4S / TDS-8S / TDS-1000A

COMPONENTS: HYDRAULIC INDEXING SHOT PIN ASSEMBLY



SHOTPIN/DRIVE
ASSEMBLY



Core Functions & Precision Engineering: The TSS Drilling Technologies Shot Pin Assembly is a critical indexing module that facilitates the controlled rotation and locking of the RLA (Rotating Link Adapter).

360° Omnidirectional Maneuverability: Enables the RLA to rotate freely in either direction, ensuring maximum flexibility during tubular handling and positioning.

Precision Indexing & Locking: Features a high-performance hydraulic actuator that securely locks the RLA into any of the 24 predefined index positions. This ensures high-torque stability during makeup and breakout operations.

Heavy-Duty Wear Resistance: To counter the fatigue caused by high-frequency cycling, the shot pin is manufactured from hardened high-alloy steel with specialized surface treatment to minimize mechanical play and extend service life.

Responsive Maintenance Design: The assembly is optimized for rapid Routine Inspection & Maintenance (R&I), ensuring minimal impact on drilling operations.

Direct Compatibility: Our Shot Pin Assemblies are engineered to be 100% interchangeable with the following NOV Varco Top Drive models:

TDS Series: TDS-8S / TDS-9S / TDS-10S / TDS-11S / TDS-1000A

COMPONENTS: PRECISION TUBULAR STABBING GUIDE



STABBING
GUIDE



STABILIZER



Operational Functions & Protection Features: The TSS Drilling Technologies Stabbing Guide is a mission-critical centering module mounted onto the clamp wrench assembly. It is designed to ensure the safe and efficient alignment of tubulars during the "stabbing" process.

Multi-Size Versatility: Our guides feature a highly adaptable, interchangeable design, allowing a single assembly to accommodate various tubular sizes with minimal transition time.

Enhanced Tool Joint Protection: Engineered to mitigate the impact of misalignment between the tool joint and the saver sub. Our guides act as a protective buffer, preventing expensive thread damage and structural wear on the drive string.

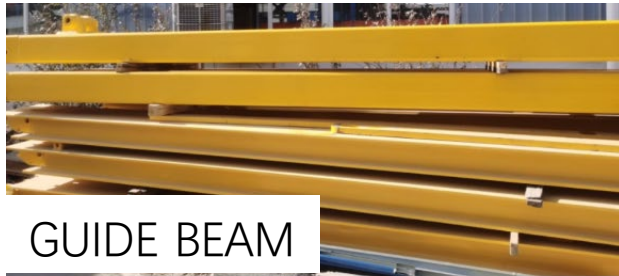
High-Impact Durability: Manufactured using high-density, impact-resistant polymers or reinforced alloy steel (depending on application), specifically chosen to endure the rigorous mechanical stresses of the rig floor.

Maintenance Optimized: Designed as a "high-performance consumable," these guides are optimized for rapid R&I (Removal & Inspection), ensuring that worn components can be replaced without disrupting the drilling schedule.

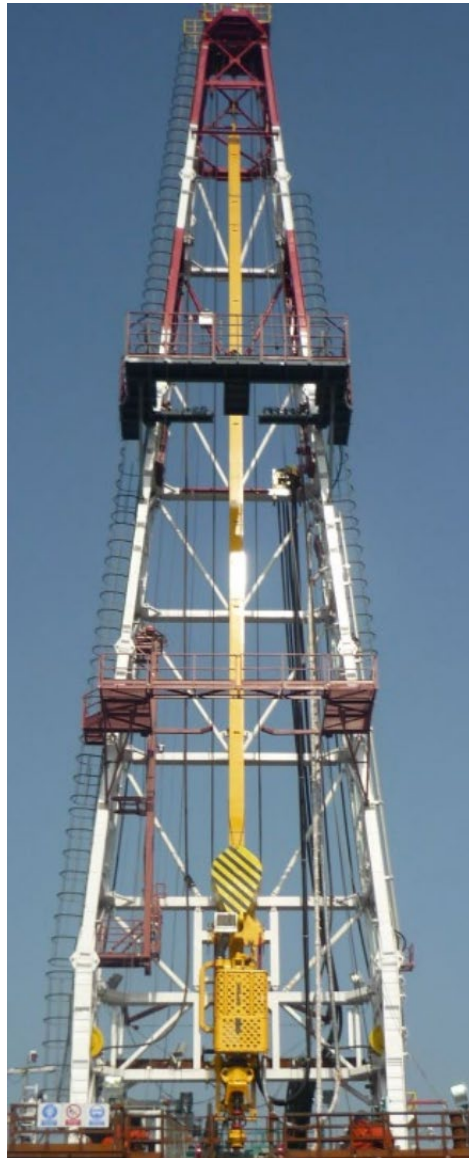
Direct Compatibility: Our Stabbing Guides are precision-manufactured for seamless fitment on the following NOV Varco models:
TDS Series:

TDS-8S / TDS-9S / TDS-10S / TDS-11S / TDS-1000A

SYSTEMS: PORTABLE TORQUE GUIDE BEAM ASSEMBLY



GUIDE BEAM



Engineering Excellence & Operational Utility: The TSS Drilling Technologies Portable Guide Beam is a high-strength structural module engineered specifically for land-based drilling rigs, where mobility and rapid deployment are critical.

Dual-Function Technology: This assembly serves as the precision track for the top drive's vertical travel while simultaneously acting as the primary conduit for transmitting drilling torque safely into the derrick structure.

Rapid Deployment Design: Optimized for frequent rig moves, the beam features a modular, "quick-connect" architecture that drastically simplifies dismantling and installation, saving valuable days during rig-up and rig-down.

Enhanced Torque Resilience: To combat the material fatigue caused by continuous torque transmission, our beams are constructed from high-tensile structural steel with reinforced stress points, significantly extending the maintenance intervals compared to standard models.

Precision Alignment: Ensures smooth travel of the top drive, reducing vibration and secondary wear on the hoisting system.

Broad Compatibility: Our Portable Guide Beams are engineered to provide robust support for the following NOV Varco systems:

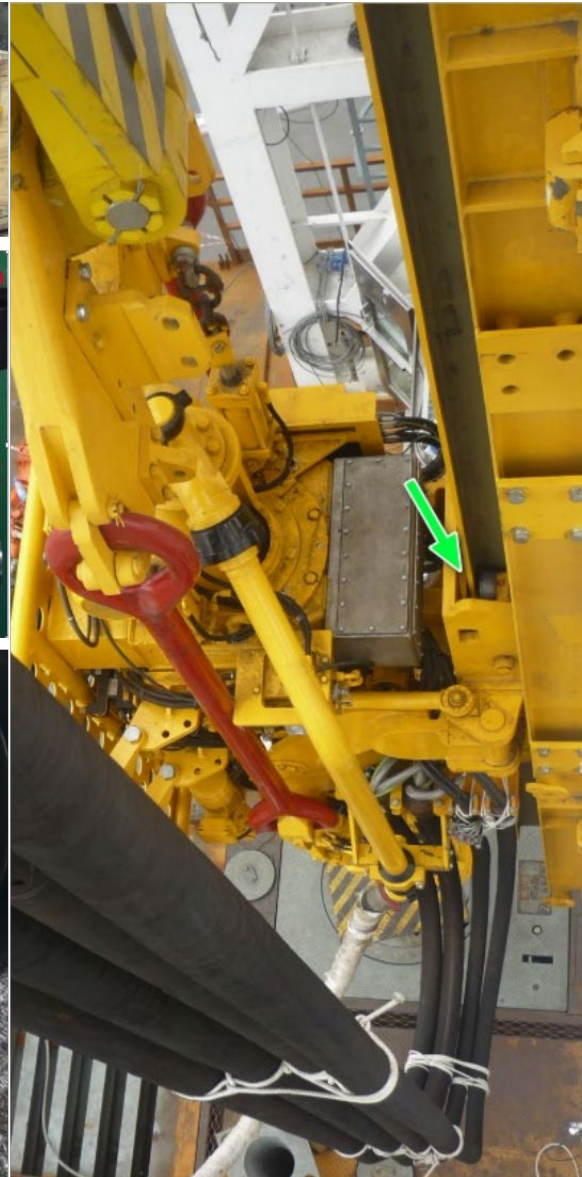
TDS Series: TDS-8SGB / TDS-9S / TDS-11S

IDS Series: IDS-350PE / IDS-4A

COMPONENTS: HEAVY-DUTY TORQUE TRANSMISSION ROLLERS



ROLLER ASSEMBLY



Operational Functions & Engineering Excellence: The TSS Drilling Technologies Dolly Rollers are high-load bearing assemblies installed on the carriage or dolly frame. These rollers serve as the primary mechanical interface for transmitting massive drilling torque from the motor housing to the guide beam.

High-Torque Load Management: Engineered to withstand extreme radial forces during high-torque operations, ensuring smooth vertical travel of the top drive under maximum drilling loads.

Premium Bearing Technology: Each roller is equipped with heavy-duty, high-precision industrial bearings designed to handle the "heavy-duty" cycles of deep-well drilling, significantly extending the service life. **Superior Wear Resistance:** The roller surfaces undergo specialized heat treatment and hardening, providing excellent resistance to abrasion and impact while minimizing friction against the guide beam.

Optimized Maintenance Cycle: Our rollers are designed for reliability. While periodic R&I (Removal & Inspection) is recommended for safety, the robust construction reduces unexpected failures and downtime. **Universal Compatibility:** Our Dolly Rollers are precision-manufactured for 100% interchangeability with a wide range of industry-leading Top Drives:

NOV Varco TDS Series: TDS-8S / 9S / 11S / 1000A

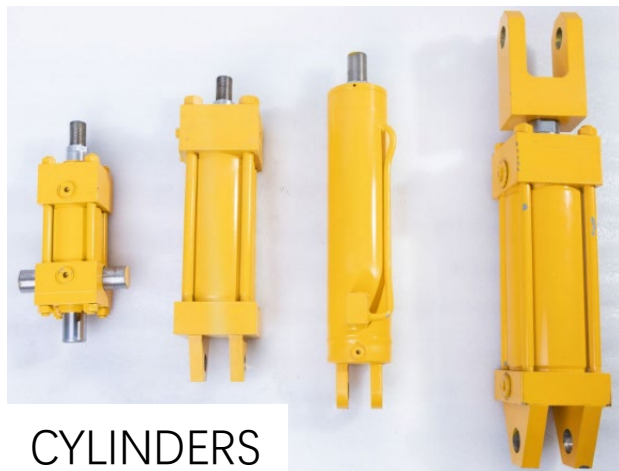
NOV Varco IDS/TDX Series: IDS-350PE / IDS-4A / TDX-1000 / 1250 NOV

Hydralift HPS Series: HPS-03-750 / 1000 & HPS-04-650 / 750

SYSTEMS: PRECISION LINK TILT ACTUATION ASSEMBLY



CRANK



CYLINDERS



Operational Functions & Robust Design: The TSS Drilling Technologies Link Tilt Crank and Cylinder assembly is a high-performance positioning module mounted onto the RLA. It provides essential mobility for the links during critical pipe-handling phases.

Dual-Direction Precision: Synchronized hydraulic cylinders drive the crank to tilt the links forward (to the mousehole position) or backward (to the drill-down position) with absolute precision.

Space-Optimized Engineering: Recognizing the constrained environment of land rig derricks, our cranks and cylinders feature a compact, low-profile design. This minimizes interference with derrick structures, significantly reducing the risk of accidental impact damage.

Heavy-Duty Durability: To address the "high-damage" risk in tight spaces, the assembly is constructed from high-strength forged steel and equipped with reinforced seal kits, ensuring reliable performance even under repetitive, high-impact cycles.

Smooth Kinematics: Engineered for smooth acceleration and deceleration, preventing sudden jolts that can lead to mechanical fatigue or premature failure of the actuation system.

Universal Compatibility: Our Link Tilt Cranks and Cylinders are engineered for direct fitment on the following NOV Varco Top Drive models:

TDS Series: TDS-8S / 9S / 10S / 11S /

1000A IDS Series: IDS-350PE / IDS-4A

SYSTEMS: BX SERIES HYDRAULIC ELEVATORS & BUSHING SYSTEMS



ELEVATOR
BUSHING



Versatility & Heavy-Lift Performance: The TSS Drilling Technologies BX Series Elevators represent the industry standard for high-capacity hoisting. Engineered for universal compatibility, these systems are seamlessly integrated with all major top drive brands and hoisting infrastructures.

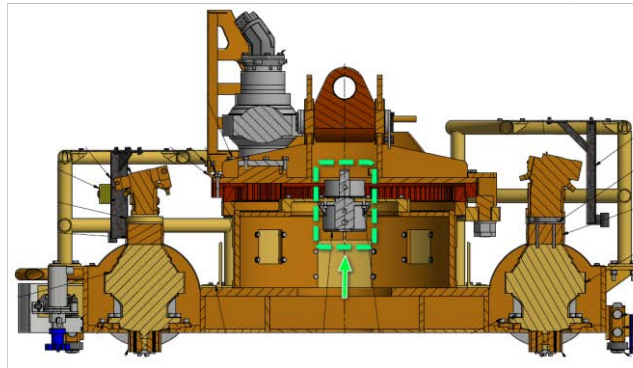
Multi-Tubular Adaptability: By utilizing precision-engineered interchangeable bushings, a single BX elevator can be configured to handle a comprehensive range of tubulars, including Drill Pipe (DP), Drill Collars (DC), and Casing (CSG).

Rapid Tool Transition: Our bushing systems are designed for quick and secure installation, allowing drilling crews to switch between different pipe sizes with minimal downtime, significantly enhancing "Trip Time" efficiency. **Safety-First Hydraulic Actuation:** Optimized for remote operation from the driller's cabin, reducing manual handling and improving personnel safety on the rig floor. **Built for Extremes:** Manufactured from high-strength structural alloys to ensure certified performance under peak dynamic loads in both onshore and offshore environments.

Product Range & Compatibility: We provide the full spectrum of BX Series solutions, precision-manufactured to be fully interchangeable with:

BX-3 Series BX4-50 & BX4-75 Series BX-5 Series

SYSTEMS: MULTI-PASSAGE HYDRAULIC ROTARY SWIVELS



Advanced Fluid Management: The TSS Drilling Technologies Hydraulic Swivel series is a high-precision rotary union designed for the most demanding automated drilling environments. It facilitates the seamless transfer of hydraulic power between stationary and rotating components.

Multi-Channel Distribution: Engineered with specialized internal galleries, our swivels allow independent fluid routing from the stator to the rotator, supporting multiple hydraulic functions simultaneously without cross-contamination.

Superior Sealing Integrity: Utilizing proprietary low-friction seals, our swivels are built to withstand high pressure and continuous rotation, ensuring a leak-free operation and extending the maintenance cycle of the entire handling system.

Corrosion & Wear Resistance: The internal passages and rotating surfaces are precision-finished and treated to resist erosion from hydraulic additives and environmental contaminants.

System-Wide Integration: Our hydraulic swivels are essential components for high-level automation, fully compatible with:

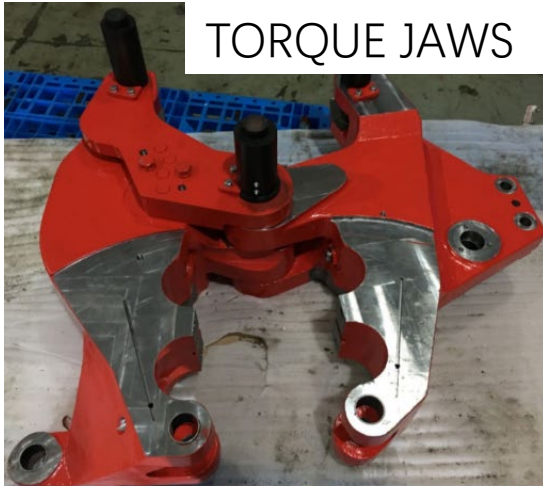
NOV Pipe Racker Systems (PRS): Including PRS-4I / HR-XY / HR-III / HR-IV series.

MHWirth (MH) Automation Suites: Widely utilized across various MH-designed automated drilling and handling equipment.

SYSTEMS: AUTOMATED IRON ROUGHNECK SOLUTIONS



TORQUE JAWS



SPINNERS



ROLLERS



Operational Functions & Field Reliability: The TSS Drilling Technologies Iron Roughneck components are engineered for maximum efficiency in both onshore and offshore drilling environments. They provide a safe, automated solution for the rapid makeup and breakout of drill pipe connections.

High-Torque Precision: Our Torque Wrench (TW) units are designed for consistent, accurate torque application, ensuring connection integrity and protecting your drill string from over-torque damage.

High-Speed Spin-In: The Spin Wrench (SW) modules feature high-traction rollers that provide rapid pipe rotation, significantly accelerating the tripping process.

Extreme Environment Engineering: Specifically designed to excel in "heavy-duty" and "high-mud" conditions. We utilize advanced sealing technology and abrasion-resistant coatings to protect critical moving parts from mud ingress and corrosion.

Maintenance Efficiency: Recognizing the intensity of rig-floor operations, our TW & SW components are optimized for rapid R&I (Removal & Inspection), ensuring higher uptime and lower total cost of ownership.

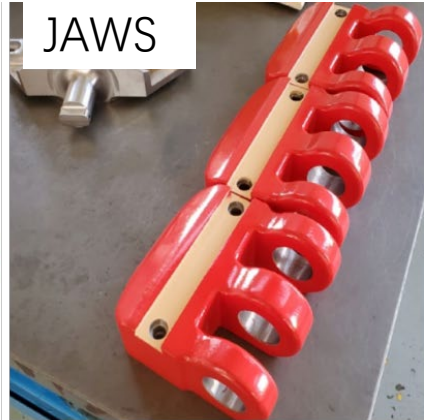
Direct Compatibility: Our high-performance components are precision-engineered as direct replacements for the NOV Compact Iron Roughneck series, including:

ST-80 Series: ST-80 G2 / ST-80C / ST-80R / ST-80CL

SYSTEMS: HEAVY-DUTY IRON ROUGHNECK COMPONENTS (ST-120)



SPIN WRENCH



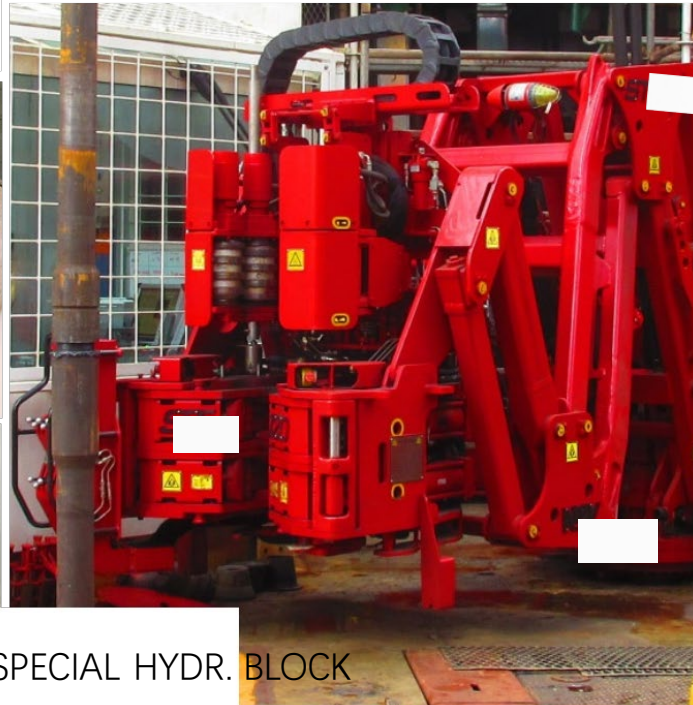
JAWS



STABILIZER



SPECIAL HYDR. BLOCK



Extreme Duty & High-Torque Performance: The TSS Drilling Technologies range of components for the ST-120 series is engineered to meet the rigorous demands of heavy-duty deep-well drilling. These units facilitate the efficient makeup and breakout of large-diameter drill strings with maximum reliability.

Extreme Torque Capability: Our Torque Wrench (TW) assemblies are reinforced to deliver the massive breakout forces required by the ST-120 series, ensuring precise torque control even for high-grade, heavy-wall tubulars.

Synchronized Spin-In Logic: The Spin Wrench (SW) modules are optimized for high-speed operation, featuring heavy-duty drive motors and grip rollers that maintain consistent traction in fluid-heavy environments.

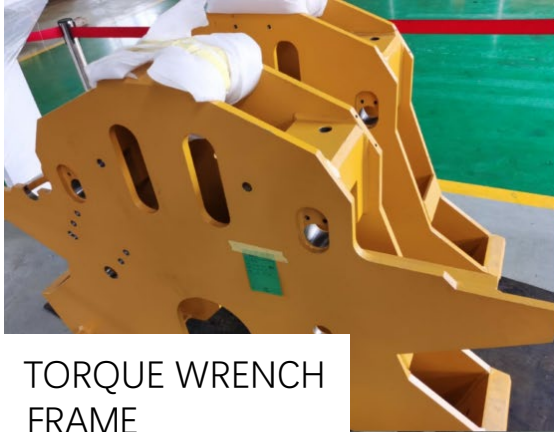
Engineered for Harsh Conditions: To combat the abrasive nature of drilling mud, we utilize hardened alloy components and specialized sealing systems, significantly reducing the wear-and-tear caused by "high-duty" muddy operations.

Precision R&I Management: Designed for modular accessibility, allowing for rapid Removal & Inspection (R&I), which translates to reduced downtime and enhanced rig-floor productivity.

Direct Compatibility: Our high-performance TW & SW components are precision-engineered for full interchangeability with:

NOV ST-120 Series: ST-120 Automated / ST-120 Manual

SYSTEMS: LEGACY SUPPORT – TW-3/30 TORQUE WRENCH ASSEMBLIES



TORQUE WRENCH
FRAME



CYLINDERS



Specialized Support for Hydratong Series: TSS Drilling Technologies remains committed to supporting long-service assets with high-performance components. Our TW-3/30 Torque Wrench assemblies are specifically engineered to maintain the operational integrity of earlier-generation automated floor tongs.

Precise Makeup & Breakout: Engineered to provide consistent torque output, ensuring that older rig assets can still meet modern drilling connection standards.

Modern Material Upgrades: While maintaining 100% dimensional compatibility with legacy designs, we utilize modern high-strength alloys to better resist the abrasive effects of "high-duty" muddy environments.

Extended Life-Cycle: Our TW-3/30 assemblies are designed to reduce the frequency of R&I (Removal & Inspection), breathe new life into existing equipment, and lower overall maintenance costs.

Reliable Field Replacement: A direct-fit solution that eliminates the need for expensive system retrofits or modifications.

Comprehensive Compatibility: Our TW-3/30 assemblies are the primary replacement choice for NOV Hydratong legacy models, including:

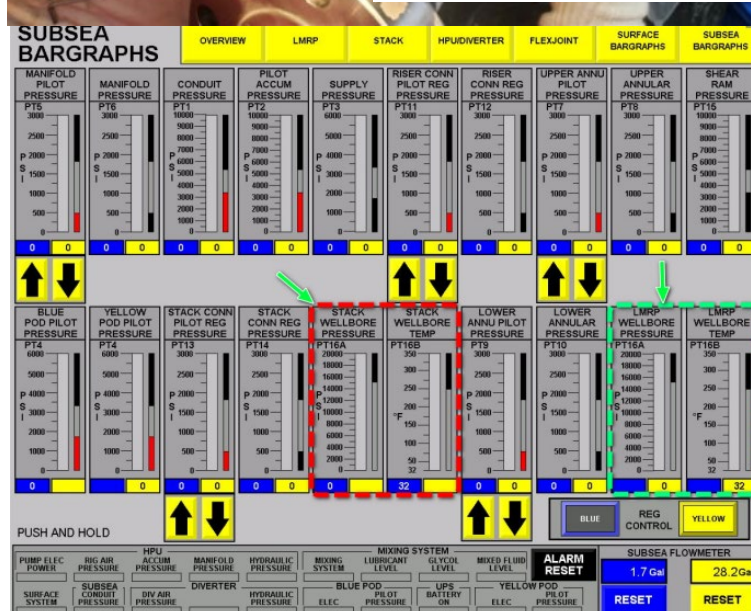
ARN-200 / MPT-200

LPT-200 / CMR-200

SYSTEMS: SUBSEA CAVITY PRESSURE & TEMPERATURE TRANSMITTERS



WELLBORE TEMP./PRESS.
TRANSMITTER



Critical Feedback & Deepwater Reliability: The TSS Drilling Technologies Subsea P/T Transmitters are high-precision sensors engineered to provide real-time feedback of BOP cavity conditions. These mission-critical components ensure that operators on the surface have accurate, instantaneous data for well control decisions.

Dual-Parameter Monitoring: Simultaneously captures both pressure and temperature (PT) data, transmitting vital information directly to the surface control panels within the hull.

Redundant System Integration: Specifically designed for installation on the Lower Marine Riser Package (LMRP) and Lower Stack. These units link seamlessly to both Blue and Yellow Control Pods, ensuring full system redundancy and safety.

Ultra-Deepwater Endurance: Engineered to operate flawlessly in extreme subsea environments at depths of 1,500m, 3,000m, and up to 3,600m (12,000 ft). The housing is built to withstand extreme hydrostatic pressure and corrosive seawater.

Precision Signal Feedback: Utilizing advanced low-drift electronics to ensure stable data transmission over long-distance umbilicals.

Global Subsea Compatibility: Our transmitters are engineered for high-performance integration with NOV Shaffer subsea BOP stacks, widely utilized on:

Modern Semi-Submersibles

Ultra-Deepwater Drillships



SYSTEM SOLUTIONS FOR LAND-RIG PLATFORMS

High-Performance Components
for TDS-9 & 11 Series Top Drives

TDS-9SA / 11SA / 11SH



NOV TDS-9SA/11SA/SH Spare Parts-Mech



Accumulator.JPG



Bearing.JPG



Brg Seal Kit 1.JPG



Brg Seal Kit 2.JPG



Caliper Brake Pad.JPG



Caliper Brake.JPG



Clamp Cylinder SK.JPG



Clamp Wrench Assy.jpg



Cylinder Seal Kit 2.jpg



Cylinder Seal Kit.JPG



Cylinders.jpg



Die insert.JPG



Filter Assy.JPG



Filter Element.jpg



Jaw Assy.JPG



Landing Collar.JPG



Lip Seal 1.JPG



Lip Seal 2.jpg



Lock Ring.JPG



Lower IBOP.jpg



Lube Pump Assy.JPG



Lube Pump Gear.JPG



Lube Pump Kit.JPG



Main Brg.JPG



Main Manifold.jpg

NOV TDS-9SA/11SA/SH Spare Parts-Mech



Manifolds.jpg



Mtr Pinion.jpg



Oil Breather.JPG



Oil Seal.JPG



Packing Set.JPG



Pinion.JPG



PipeHandler Assy.JPG



Piston Ring.JPG



Pump & Mtr.jpg



Pumps.JPG



RLA Seal Kit.JPG



RLA stem.jpg



S pipe rubber.JPG



Seal Kit.JPG



Shell Actuator.JPG



Shot Pin Assy.jpg



Stabbing Guide.JPG



Stock A.jpg



Stock B.jpg



Valve Cartridge.JPG



Valve kit.JPG



W Compound Gear.jpg



Washpipe Assy.JPG



Wear Guide.JPG



Wear Sleeve.JPG

NOV TDS-9SA/11SA/SH Spare Parts-Elec



ABB Control modules.JPG



AC control panel.JPG



AC Drilling Mtr.jpg



AC Unit Parts.JPG



Atos Solenoid Valve.JPG



Aux Motor.jpg



Bartec Profibus.jpg



Cable Grand.JPG



Combination MS.JPG



Connector 1.JPG



Connector 2.JPG



Connector With Pigtail.JPG



Control BD 1.jpg



Control BD 2.JPG



Cooler.JPG



Derrick Compound Cable.jpg



Encoder 1.JPG



Encoder 2.JPG



Encoder 3.jpg



Fan Exhaust.JPG



Fieldbus Coupler.JPG



Fuse.JPG



Hyd Pump Assy.jpg



Inverter Fuse.JPG



J Box.JPG

NOV TDS-9SA/11SA/SH Spare Parts-Elec



Derrick Compound Cable.jpg



Encoder 1.JPG



Encoder 2.JPG



Encoder 3.jpg



Fan Exhaust.JPG



Fieldbus Coupler.JPG



Fuse.JPG



Hyd Pump Assy.jpg



Inverter Fuse.JPG



J Box.JPG



Mtr Cooler Assy.jpg



Power Heat Sink.jpg



Power Supply.JPG



Pressure Switcher.JPG



RC Filter.jpg



Regular BD.JPG



Resister.JPG



SBC Controller.jpg



Service Aux Power Cable.jpg



Service Composite Cable.jpg



Service Power Cable.jpg



Siemens Control Parts.JPG



Siemens Digital.JPG



Siemens PCL Modules.JPG



Solenoid Valves.JPG



HIGH-RELIABILITY PARTS TIE-IN

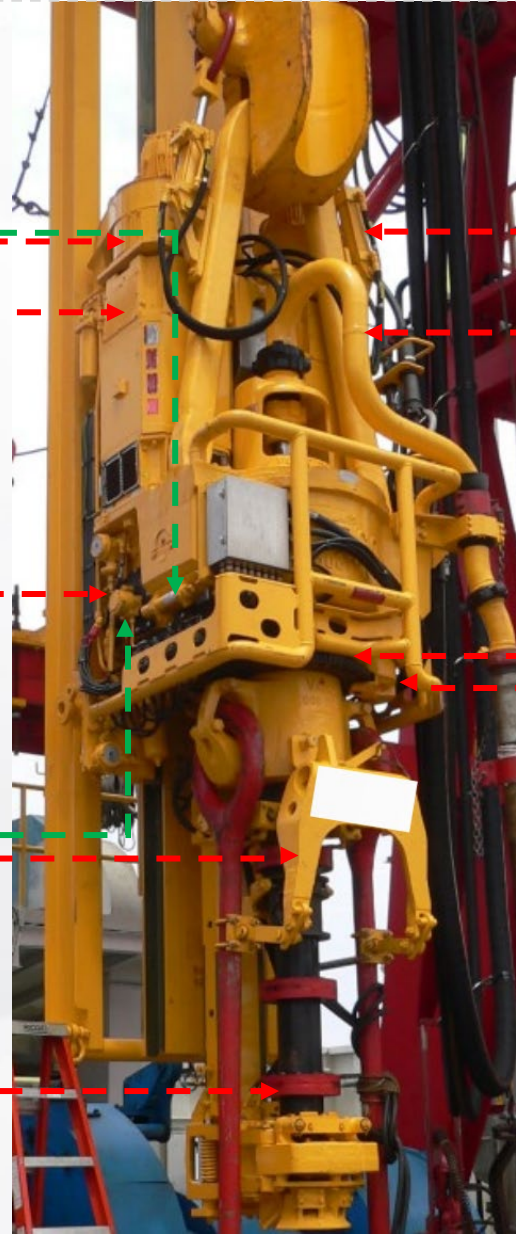
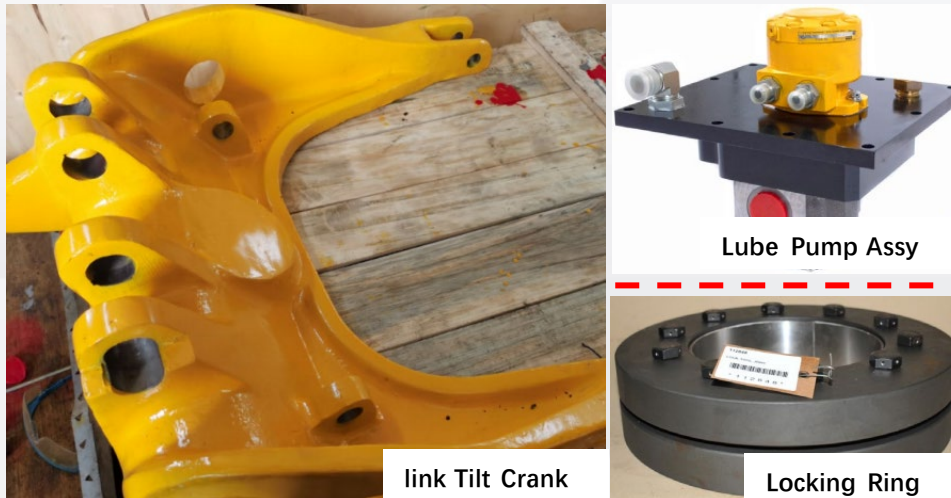
FOR LAND RIG OPERATIONS

Ensuring Compatibility with

TDS-9SA / 11SA / 11SH



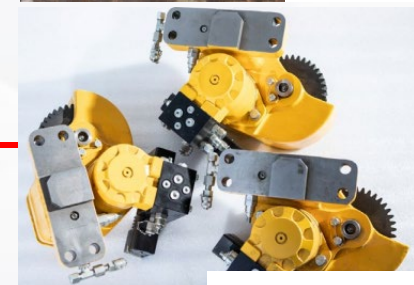
KEY PARTS for NOV TDS-9SA/TDS-11SA/SH



IBOP, Link Tilt, CB Cylinders



S Pipe



Shot Pin Assy



RLA Gear

KEY PARTS for NOV TDS-9SA/TDS-11SA/SH



Connector



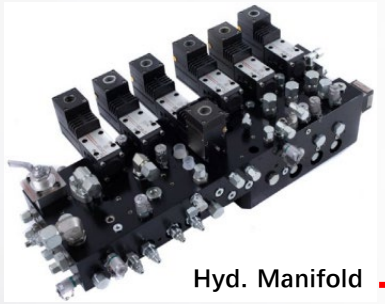
Connector



Main Thrust Bearing



RLA Stem



Hyd. Manifold



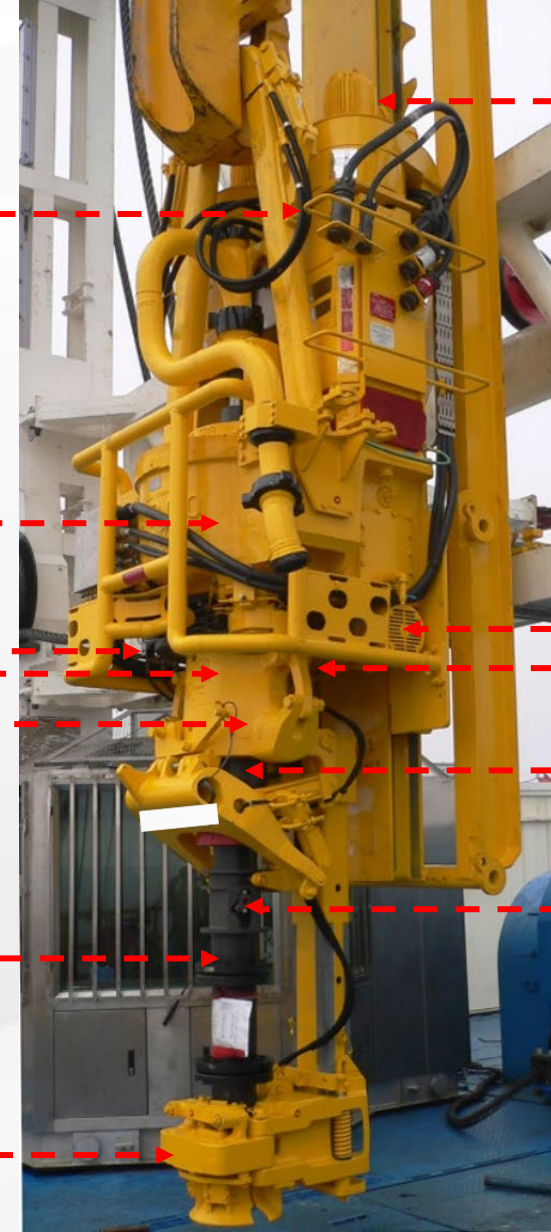
RLA Seal Kit



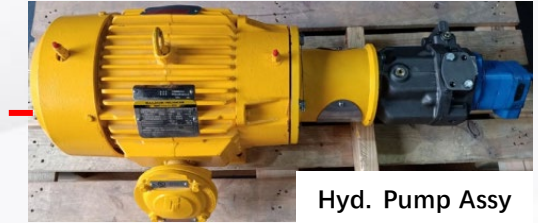
Torque Wrench Assy



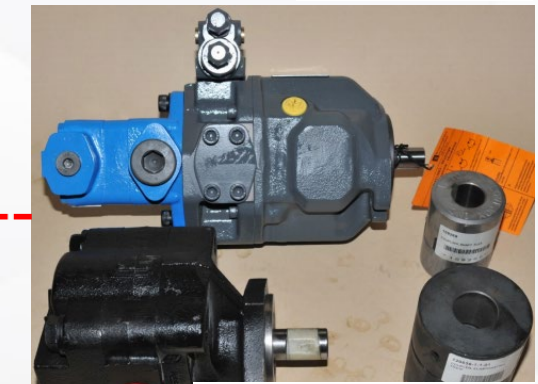
IBOP Repair KIT



Cooling Motor



Hyd. Pump Assy



Hyd. Pumps & Coupling



Landing Collar

IBOP actuator Shell



HIGH-AVAILABILITY GENERAL SPARE PARTS



Drilling Equipment Spare Parts Summary in Stock



Mtr.jpg



Piston Ring.JPG



Pressure Transmitter.jpg



PT cable.jpg



Ram Face Seal.jpg



Ram Top Seal.jpg



Remote Control Cable.JPG



Remote Controller.jpg



RLA Shot Pin Assy.jpg



Roller.JPG



RPM meter.JPG



S Pipe.jpg



Service Loop - power 1.jpg



Service Loop - Power 2.jpg



Special Tools.JPG



SW gearcase.jpg



SW Roller.JPG



Tank Breather.JPG



Torque Gauge.jpg



Valve.jpg

Drilling Equipment Spare Parts Summary in Stock



FB Finger Assy.jpg



Hi Speed Clutch Coupling.jpg



HP Gauge.jpg



Hyd Swivel.jpg



Jaw Assy.JPG



Joy Stick.jpg



Joystick 2.jpg



Liner Transducer.jpg



Load Cell 2.jpg



Load Cell.jpg



loadcell.jpg



Lower IBOP.jpg



Lube Pump Assy.JPG



Manifolds.jpg



Manual Valve.JPG



MP motor.jpg



Mtr Alignment Cylinder.JPG



Mtr Cooler Assy.jpg



Mtr Hub.JPG



Mtr Pinion Inst Tool Kit.JPG

Drilling Equipment Spare Parts Summary in Stock



AC Mtr 1.jpg



AC Mtr 2.jpg



AC Mtr 3.jpg



AC Mtr 4.jpg



Bonnet.jpg



Brig Isolator.JPG



Bushing.JPG



BX manifold.jpg



Clamp Wrench Assy.jpg



Compound Gear.jpg



Connector 1.JPG



Connector 2.jpg



Contactor.jpg



Cylinders.jpg



DCV 1.jpg



DCV 2.jpg



Derrick Cable.jpg



Driller Chair Panel.jpg



Encoder 1.jpg



Encoder 2.JPG

SCOPE OF SUPPLY: INTEGRATED DRILLING SOLUTIONS



1. Hoisting & Rotation Systems

Top Drive Systems (TDS): Complete units and critical spares (compatible with NOV™ TDS-9, 11, MH, and Canrig™).

Drawworks: High-torque AC/DC or mechanical drawworks components, including brake discs, drums, and drive chains. HPU

(Hydraulic Power Units): Custom-engineered HPUs for top drive actuation, pipe handling, and rig-floor automation.

2. Pipe Handling & Rig Floor Automation

Iron Roughnecks: Modules and seal kits for ST-80, ST-120, and TW-series torque wrenches.

Pipe Rackers & Fingerboards: Automated tubular handling systems, including guide arms, latch mechanisms, and fingerboard sensors. Elevators & Links:

BX-series hydraulic elevators and heavy-duty link tilt actuation systems.

3. Well Control & Pressure Management

BOP (Blowout Preventers): Annular and Ram BOP stacks, including replacement packing elements and hydraulic seal kits.

Pressure Sensing: High-precision subsea cavity pressure and temperature transmitters.

4. Mud Circulation & Solids Control

Mud Pumps: High-pressure fluid end parts, liners, pistons, and pulsation dampeners for F-series and triplex pumps.

Solids Control Equipment: High-G shakers, desanders, desilters, and centrifuges for efficient drilling fluid management.

Shaker Screens: Premium replacement screens for all major industry brands.

5. Material Handling & Auxiliary Systems

Cranes: Offshore and land-rig pedestal cranes, including winches, slewing bearings, and wire ropes.

Catwalks: Automated hydraulic catwalks for safe tubular delivery to the rig floor.



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Thank You!

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