



Weatherford®

Drilling Rental Tools



Drilling



Evaluation



Completion



Production



Intervention

Well Construction

- Cementing products
- Drilling tools
 - Performance drilling tools
 - Pressure-control equipment
 - Tubulars and handling tools
- Inflatable packers
- Liner systems
- Mechanized rig systems
- Solid expandable systems
- Swellable products
- Tubular running services

Whatever you need. Whenever you need it. Wherever you are.

Delivering the **scope** of technologies and quality of **service** you need to perform virtually any drilling, completion or workover task, on a global **scale**.

Weatherford wants your *rental tool business...*





but we want your repeat business *even more.*

When it comes to rental equipment, our philosophy is simple: we seek long-term relationships with our clients. To earn your business, we offer:

Scope We have built a highly diversified inventory of drilling tools, available for rent to spare you the cost and inconvenience of ownership. Our portfolio ranges from conventional to advanced technology designed to meet the demands of the most challenging wells.

Service Drawing on expertise honed through experience and training, we begin each client relationship with a thorough evaluation of your drilling, completion or workover needs. We proceed to guide you through the selection of an appropriate equipment package. And we offer ongoing technical support throughout your operation.

Scale As one of the world's largest oilfield services companies, we are uniquely positioned to get you what you need, when you need it—no matter where you are operating.



Scope: Meeting your drilling, completion and workover needs with a vast inventory of rental equipment

Weatherford provides the broadest and best-maintained range of safe and reliable drilling rental tools at a fair price while sparing you the cost and inconvenience of ownership. Our offerings encompass **drillpipe** of all varieties and sizes; **performance drilling tools** to maximize efficiency; and **pressure-control equipment** to protect your personnel and your assets.



Drilling

Drilling Rental Tools

Well Construction

- Cementing products
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- Inflatable packers
- Liner systems
- Mechanized rig systems
- Solid expandable systems
- Swellable products
- Tubular running services

Aluminum alloy tubulars

- Drillpipe
- Risers

Integrated drilling rigs

- Heavy-duty
- Light-duty
- Medium-duty

Wellhead systems

- Accessories
- Adapters
- Casing/tubing hangers
- Casing/tubing heads
- Frac equipment
- Gate valves, actuators, chokes
- Primary/isolation rings
- Rental & service tools
- Secondary/annulus bushings
- Tees & crosses
- Tree caps

Drilling hazard mitigation

- Drilling-with-casing (DwC™) systems
- Secure Drilling™ services
- Solid expandable systems

Drilling services

- Directional & performance drilling
- MWD
- Rotary-steerable systems

Elastomer products

- Drillpipe protectors
- Drillpipe wipers
- Guides
- Stand protectors
- Thread protectors
- Tubular racking systems

Drillpipe

Selecting the right drillpipe is critical to the success of your operation. One of the largest global suppliers of tubular products, we combine a wide selection of drillpipe with associated expertise to help you maximize drilling efficiency and contain costs.

Standard drillpipe

We carry a large inventory of standard 3 1/2- and 5 1/2-in. drillpipe, as well as transition pipe (typically heavyweight drillpipe) that is placed between the main drillstring and collar to reinforce an area susceptible to fatigue and add weight to the bit.

Alternative drillpipe

We rent alternatives to standard drillpipe, including off-sizes (5-1/2 and 5-7/8 in.) and heavy-wall drillpipe. Though deviating only slightly from standard varieties, such alternatives can enhance drilling efficiency and reduce costs significantly. We can help you determine the potential time- and cost-savings benefits of using alternative drillpipe for a particular well.

Hydroclean® series drillpipe

Especially pertinent to extended-reach drilling (ERD), Weatherford's *Hydroclean* series drillpipe helps improve cuttings-removal efficiency to minimize differential sticking.



Secondary drillstrings

Secondary strings typically require drillpipe that is smaller or larger than the drillpipe incorporated into primary strings. We carry 2 7/8-, 3 1/2- and 6 5/8-in. drillpipe—all appropriate for secondary strings. Because these off-sizes have higher maintenance costs and tend to be used in lesser quantities, rental is generally a more cost-effective option than purchase.

Hydroclean is a registered trademark of SMF International (SMFI).



Why rent drillpipe?

The primary benefit of renting is preservation of capital through the reduction or elimination of storage and maintenance costs. Renting is also a cost-effective means to:

- reduce high capital expenditure on new and replacement pipe purchase;
- supplement your existing supply;
- replace stock that does not comply with inspection criteria or your own quality expectations;
- meet needs that exceed the capacity of your inventory;
- avert damage to your own drillpipe in wells with an elevated risk of high side-loading.

Premium drillpipe

Weatherford's premium drillpipe is designed to meet the demands of challenging well profiles, including those with torque and drag loads that exceed the capacities of standard drillpipe. Our inventory includes high-strength (G-105, S-135) and ultrahigh-strength (V-150, Z-140) drillpipe; tagged and traceable **Smart Iron™ radio frequency identification (RFID) drillpipe**; and high-torque and double-shouldered tool joints.



Aluminum-alloy drillpipe

Our aluminum-alloy drillpipe has an extremely high strength-to-weight ratio, rendering it well-suited for drilling in deep water. It also offers a high degree of corrosion resistance.



Special-purpose drillstrings

We offer an array of drillpipe and accessories used in special-purpose drillstrings. These products include drillpipe designed to minimize risk and the use of inhibitors in sour-gas environments; connectors that facilitate drillstem testing in high-pressure conditions; high-tension landing strings used to increase the depth of intermediate casing points in deep water; and drillpipe for fracturing strings.

Drillstring accessories

We rent bottomhole assemblies (BHAs), collars, and drillstem subs, in addition to standard and specialty drillpipes.



Real Results

Germany

Weatherford Supplies Client with H₂S-Resistant Drillpipe to Address Safety Concerns

Our client was operating in an area with a high concentration of sour gas. Comprised primarily of toxic hydrogen sulfide (H₂S), sour gas can damage conventional drillpipe, a potentially hazardous phenomenon known as sulfide stress cracking. Drawing from our vast inventory of specialized tubulars, we supplied the client with 2 7/8-in., VX-26, H₂S-resistant drillpipe to address safety concerns stemming from the adverse operating conditions.

Drilling Rental Tools

Performance Drilling Tools

Weatherford rents many specialized tools to help you maximize safety and efficiency while drilling and completing your wells. Our portfolio features the Dailey® series of high-performance downhole tools, the unique RipTide® drilling reamer and many innovative torque-and-drag reduction systems.

Real Results

Veracruz, Mexico (Palo Blanco Field)

RipTide Hole-Enlargement-While-Drilling Reamer Expands Borehole and Saves Valuable Rig Time

Weatherford's RipTide tool enabled a client to simultaneously drill and enlarge a borehole from 8-1/2 to 9-7/8 in., creating more clearance to run a 7-in. casing string. The successful operation saved an estimated six days of rig time relative to performing the task using more conventional equipment.

Borehole enlargement tools

In addition to providing hole openers, roller reamers and conventional underreamers, we offer a unique hole-enlargement-while-drilling tool—the RipTide drilling reamer—that can expand holes up to 25 percent beyond bit diameter. Specific applications include expanding pilot holes and underreaming below casing with tight restrictions. The tool is equipped with several performance-enhancing features, such as a durable polycrystalline diamond compact (PDC) cutting structure that offers high-impact strength and erosion resistance, concentric cutter blocks that minimize vibration while drilling and optional electronic-activation using RFID technology.

Jars

Weatherford offers jars and related fishing tools designed to free stuck pipe quickly and cost-effectively, even in extreme downhole conditions. These jars include our durable Dailey hydraulic drilling and fishing jar, equipped with hydraulic time-delay for enhanced reliability; and the compatible Dailey HyPulse Jar Slinger® tool, which leverages a unique, synthetic-fluid-based spring mechanism to increase jarring force for drilling and fishing. The Dailey lubricated bumper sub facilitates control of the fishing string and significantly reduces BHA vibration.

Real Results

Offshore UK

A Combination of Weatherford Dailey Hydraulic Drilling Jars Enables Recovery of Stuck Formation Drilling Formation Tester (DFT) Packer in Deep, Horizontal Wellbore

Weatherford used its Dailey hydraulic drilling jar to free an operator's casing string, stuck in a horizontal wellbore at a depth of more than 13,500 ft (4,115 m). The string was freed in approximately 3.5 hours and recovered without incident, enabling drilling operations to proceed and keeping nonproductive time to a minimum.

Torque and drag reduction systems

We rent several tools that reduce mechanical friction to optimize drilling and completion, even in challenging high-angle, extended-reach wells. Our CRS™ clamp-on roller system reduces friction while running tubulars, liners and completion products. The LoTAD™ system reduces friction while drilling to minimize torque, drag and tool-joint wear. And our LoTORQ™ and LoDRAG™ roller centralizers use innovative rollers to reduce friction while running casing or liners.

Shock tools

We rent tools that significantly reduce drillstring shock to enhance drilling efficiency, such as our Weatherford OST shock tool, a field-proven first line of defense against excessive drill-bit wear and drillstring damage caused by string shock and vibration.

Weatherford's jars and shock tools

Weatherford's drilling jars and shock tools are backed by a long-standing tradition of excellence.

- Weatherford Dailey hydraulic drilling jar
- Weatherford Dailey HyPulse Jar Slinger tool for drilling
- Weatherford Dailey hydraulic fishing jar
- Weatherford Dailey HyPulse Jar Slinger tool for fishing
- Weatherford Dailey lubricated bumper sub
- Weatherford Dailey CBC-THRUSTER® downhole drilling tool
- Weatherford HJ hydraulic drilling jar
- Weatherford MA enhancer
- Weatherford OST shock tool



Pressure-Control Equipment

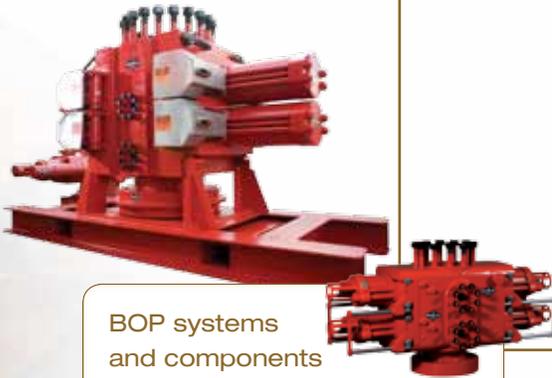
Pressure-control equipment is integral to wellsite safety and unconventional drilling techniques, such as managed pressure and underbalanced drilling, to mitigate hazards. Our portfolio of pressure-control equipment includes blowout preventer (BOP) systems and components, as well as rotating control devices (RCDs).

Real Results

Offshore Denmark

Weatherford Provides Pressure-Control Equipment Package to Support Successful Underbalanced Drilling (UBD) Operation

Weatherford provided an offshore operator with pressure-control equipment to support a successful UBD operation, during which two wells were drilled and completed. The equipment package included a 13 5/8-in. 10K double BOP, a 13 5/8-in. 10K GXS annular BOP, a 13 5/8-in. 15K double BOP and a 7-in. 5K downhole deployment valve, all of which performed without incident for the duration of the eight-month campaign.



BOP systems and components

Weatherford carries annular and RAM-type BOP systems and components from major manufacturers, such as Cameron, Hydril and Shaffer. Our offerings include equipment certified to meet the most exacting performance and safety standards, as well as systems compatible with all standard onshore and offshore rig designs. We offer a cost-effective, rent-while-in-maintenance option that enables your operations to proceed while your own equipment is being recertified. Components for rent also include accumulator units, which serve as the primary control mechanisms for BOPs.

RCDs

Used in mud-return systems to contain annular fluids while drilling, RCDs enable unconventional drilling techniques, such as managed pressure and underbalanced drilling. They also play a critical role in enhancing wellsite safety. A forerunner in RCD technology, Weatherford offers a wide selection of RCDs for rent.



Rental BOP systems specifications

Types	Annular, RAM
Thru-bore ranges	4-1/16 to 30 in.
Pressure ranges (psi/MPa)	500 to 20,000 3.4 to 137.9
Primary manufacturers	Cameron, Hydril, Shaffer
Compatible rig designs	Drillship, gas-storage workover, jackup, land, platform, semisubmersible, snubbing unit, workover unit

- BOP units
 - Annular
 - RAM
- BOP components
 - Accumulator units
 - Bonnet assemblies
 - Shear
 - Tandem boosters
 - Choke manifolds
 - Double-studded adapters
 - Drilling spools
 - Flanged crossovers
 - Fracturing valves
 - Lift plates
 - Manual and hydraulic gate valves
 - RAMs
 - Blind
 - Casing
 - Pipe
 - Shear
 - Variable-bore
 - Remote-operated chokes
 - Riser sections
 - Snubbing stacks
 - Transport skids

We also offer a cost-effective, rent-while-in-maintenance option that enables your operations to proceed while your own equipment is being re-certified. This offering includes complete 18 3/4-in. 10M and 15M BOP stacks and a wide range of 18 3/4-in. 15M shear/variable and fixed RAM blocks.

Service: Coupling technology with the expertise to help you make the most of it

Weatherford leverages rigorous training and a robust performance-tracking system to ensure that our rental tool specialists are well prepared to **understand** your drilling challenges and **guide** you in the successful application of our products. We **invest** to develop and deploy advanced drilling-tool technology and **integrate** our technology with associated drilling services and techniques.

Tracking performance to optimize results. The Weatherford Performance Tracking System (WPTS) contains detailed information on past operations. We use it to develop and reinforce best quality, health, safety, security and environmental (QHSSSE) practices; and apply hard-won lessons from one operation to the next.

Developing next-generation drilling tools. Backed by a strong patent portfolio, Weatherford is committed to enhancing its existing products, as well as developing new ones. In 2010 alone, we invested US\$195 million on research and development (R&D). Past R&D efforts have yielded many innovative technologies that are now part of our rental equipment inventory, including friction-reduction tools and our unique RipTide® drilling reamer.

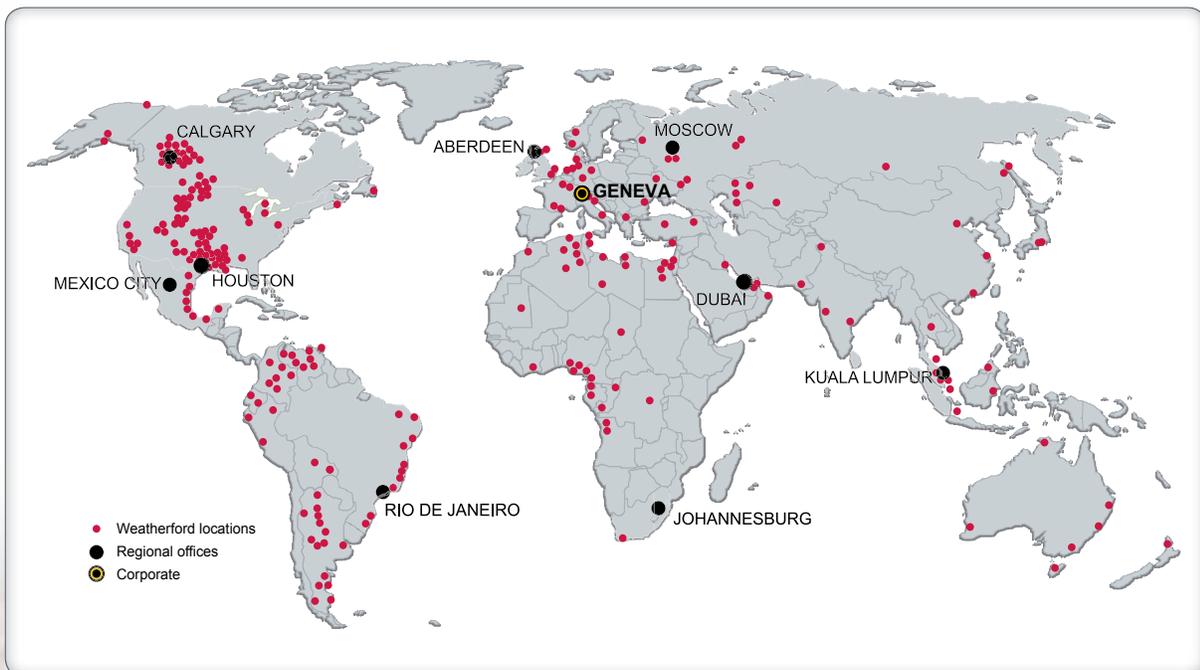
Laying a foundation for quality service. We provide our rental tools specialists with extensive classroom training. Strategically located throughout the world, Weatherford's dedicated training centers support our efforts. In 2010 alone, we provided training to more than 750 drilling tools specialists from 39 countries. Trainees continue to develop their skills in the field under the supervision of experienced personnel. Additionally, we use Weatherford's Competence Assurance System to evaluate employees on an ongoing basis. A global human resources management system—EMPLOYEE connect—enables us to track the training and competency and identify personnel by specific skill sets.

Offering technical support, around the clock and around the world. We offer worldwide technical support for our rental tools, 24 hours a day, 7 days a week. Additional support services include helping you select appropriate tools for your operation; arranging delivery and pick-up of equipment packages; and providing training to third parties on the use, maintenance and repair of proprietary Weatherford technology.



Scale: Global Reach

Weatherford operates **everywhere** you do. We foster **operational excellence** to deliver the most **efficient and cost-effective service** possible. With approximately 900 locations in more than 100 countries, our worldwide presence helps reduce mobilization costs and shorten project timetables.



Integrating your drillstrings from end-to-end

Weatherford's drilling rental tools are part of our extensive drilling portfolio. Complementary offerings include tubular running and drilling services.



Drilling

We have created a portfolio of drilling services and products that make well construction safer, reduce nonproductive time and enhance reservoir deliverability.



Evaluation

Our extensive portfolio of conveyance systems, coupled with industry-qualified measurements, are being applied to openhole and cased-hole wireline, slickline, logging-while-drilling (LWD), well-testing and geoscience services.



Completion

We provide everything from a comprehensive line of products for conventional completion in benign reservoir applications to engineered and integrated completions systems for complex and challenging environments.



Production

We help maximize reservoir recovery and optimize field production through artificial lift, well optimization services and products, and intelligent completion systems that remotely monitor and control well, facility or field production.



Completion

Our intervention services help remediate wells that have mechanical or formation problems. We help prolong the life of these wells by providing systems to extend production or access and to retrieve remaining or "stranded" oil and natural gas reserves.





Mechanized Rig Systems

UniTong® all-in-one tong system



We also offer **mechanized rig equipment**.

These remotely operated systems take a proven technology—industrial robotics—from the manufacturing floor to the rig floor. Their benefits include enhancing efficiency while making up, breaking out and handling tubulars of all varieties and sizes and keeping personnel out of high-risk zones.

SafeGuard™ single joint elevator for drillpipe, tubing and casing



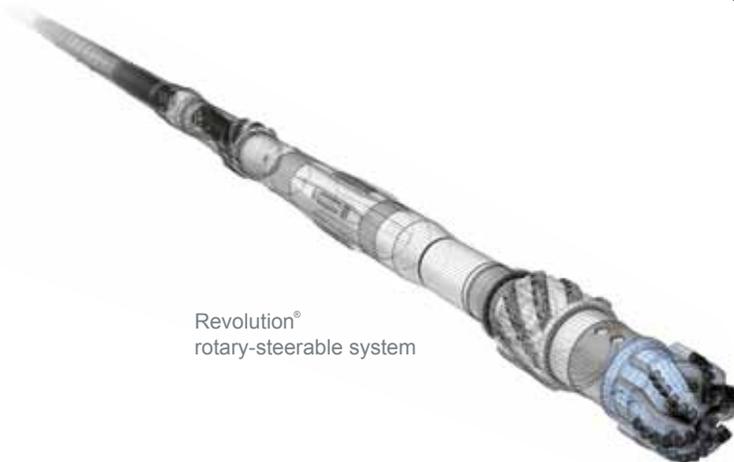
Tubular Running Services

In addition to renting tubulars, we provide equipment to run them. Our **conventional tubular running products** include bucking systems, handling tools, pick-up/lay-down machines and tongs.

Drilling Services

Our drilling services can help you maximize efficiency while drilling horizontal or infill wells; drain reservoirs that require complex well trajectories; optimize well placement; and navigate around hazards. Our portfolio of advanced drilling technologies features record-setting **measurement-while-drilling (MWD)**, **LWD** and **rotary-steerable systems**, as well as **drilling motors**.

Revolution® rotary-steerable system





Weatherford provides worldwide service and support from approximately 900 locations in more than 100 countries. To learn more about how our drilling tools can help you expedite projects and lower your operating costs, contact an authorized Weatherford representative or visit weatherford.com/drillingrentaltools.



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