BOOST OUTPUT
REDUCE INTERVENTION

WELL INTERVENTION
WE HELP YOU GET THERE

Your well intervention crews face greater challenges than ever before. Whether it’s a wellbore cleanout in corrosive environments, retrieving or replacing damaged tools, or pushing coiled tubing into deep horizontal wells, there’s no room for unnecessary risks. For more than 50 years, we’ve supported leading oilfield companies with our advanced products and materials knowledge to limit production downtime and improve reservoir flow.

The rewards for safe and efficient well intervention are high, but as operations become more complex and costly, carbon-based coiled steel tubing is not always up to the challenge. This is why we continue to develop our products for control lines, subsea umbilicals, coiled tubing and chemical injection lines to overcome the most extreme challenges. From the ability to avoid buckling when unclogging scale, wax and sand collection to providing reliable workover risers, we help you meet your operating envelopes for workover operations.

When we say, “We help you get there,” we are stating captures our commitment to helping you overcome the obstacles you face when extending the lifetime of your wells. Whether you’re aiming to minimize risks, boost productivity or even unlock hidden reserves in existing wells, let’s talk possibilities.
ADVANCED METALLURGY IMPROVES YOUR SAFETY

Extreme offshore environments demand extreme safety. And while it might sound odd to claim that a deeper understanding of molybdenum or nickel can improve your safety, that’s exactly what we’re saying. In fact, the selection and use of the “right” corrosion-resistant material for coiled tubing, OCTG tube, umbilical tubing and other products can be critical.

Like you, we regard safety as our guiding star. Wherever our products are handled, be it in Sandvik’s own mills, the fabricator’s manufacturing facility, or in the end user’s environment, accidents and environmental hazards must be avoided at any cost. That’s why Sandvik applies safety measures in every step of the process. We also use more than 80% recycled material to make our production sustainable.

Our “Zero Accidents” ambition applies to our staff, customers, strategic partners and the environment.

RUST NEVER SLEEPS

Although we cannot walk the decks of your oil rigs, platforms or intervention vessels every day, we’re acutely aware of the dangers in harsh conditions. We see your tough routines. We appreciate the fact that our corrosion-resistant tube, strip, powdered metal and others products are helping you to work safely in all phases of oilfield development and production.

THINKING OF YOUR CREWS

The mechanical and chemical properties of a particular grade of tube can have a major impact on safety. Take the electrical or hydraulic lines that connect to valves, kill and choke lines, blowout preventers and riser joints. All it takes is a bit of corrosion or cracking to jeopardize the safety of your crew and the environment.

FOCUSING ON PREVENTIVE SAFETY

When it comes to drilling and well completion, we understand that well temperatures, pressure and sourness can be critical issues. As one deck hand in Indonesia told us: “One breath of H₂S and you’re out.” Similarly, using premium quality well intervention and workover tools is also vital.

“OUR ‘ZERO ACCIDENTS’ AMBITION APPLIES NOT ONLY TO OUR OWN STAFF, BUT TO OUR CUSTOMERS, SUPPLIERS, STRATEGIC PARTNERS AND THE ENVIRONMENT.”

GÖRAN BJÖRKMAN
PRESIDENT, SANDVIK MATERIALS TECHNOLOGY
IT’S A BROAD PORTFOLIO. HOW CAN YOU PUT IT TO THE TEST?

Day in and day out, Sandvik’s advanced corrosion-resistant alloy products are used to enhance the productivity of upstream oil and gas drilling and production, as well as onshore operations. Your subsea challenges inspire us to develop forward-thinking solutions that can open up new possibilities.

WE OFFER A RANGE OF STRONG, LIGHTWEIGHT AND CORROSION-RESISTANT TUBE IN AUSTENITIC AND DUPLEX STAINLESS STEELS AS WELL AS NICKEL-BASED ALLOYS FOR HOT AND SOUR DOWNHOLE WELL ENVIRONMENTS.

- OCTG casing and tubing
- Downhole control lines
- Hydraulic lines for drilling risers
- Tubing for well screens
- Chemical injection tubing
- Downhole permanent tools
- C/WO risers

WE ARE THE WORLD’S LEADING SUPPLIER OF SEAMLESS UMBILICAL TUBING MADE OF SUPER-DUPLEX STAINLESS SEAMLESS STEEL (SANDVIK SAF™ 2507).

- Umbilical tubing
- Flowlines and piping systems
- Line piping
- Instrument tubing and subsea template piping
- HIP products (manifolds, wye pieces and other shapes)

TO HELP EXTEND THE LIFETIME OF THE WELL AND CARRY OUT REPAIRS OR DIAGNOSTICS, WE OFFER A NUMBER OF KEY PRODUCTS FOR SAFE AND EFFICIENT WELL INTERVENTION AND WORKOVER.

- Coiled tubing strings in OD 1.5” (38.1 mm) to 2 3/8” (60.325 mm)
- Continuous lengths of weld-free coiled tube up to 3,280 ft (1,000 m)
- Reels with up to 19,000 ft (5,791 m)
- C/WO risers

DRILLING AND WELL COMPLETION

SUBSEA INFRASTRUCTURE

WELL INTERVENTION
OPTIMIZE THE FLOW OF YOUR LIQUID ASSETS

Whether it’s well maintenance or remedial treatment, you need to get it done economically, safely and on time. If you don’t hit your “window of opportunity” offshore, you could end up waiting months for weather conditions to calm down, with an unacceptable loss of production. Your coiled tubing must have the strength to push down tools without collapse or buckling, the ductility to avoid snapping and good corrosion resistance.

In today’s challenging oil and gas market, we see a strong desire to get more out of existing wells. It is no longer acceptable to achieve well extraction rates of just 20–30%. With the rise of new well stimulation techniques and tools, you now have better ways than ever to deal with challenging reservoir conditions, wax build up and deteriorating productivity. In Norway, for example, thanks to new types of rigs and advanced technology, a major oil producer was able to boost oil recovery off the Norwegian continental shelf to 50%. This included aging subsea wells containing oil and gas that would otherwise be lost.

LIMITATIONS OF STANDARD COILED STEEL

For easier workovers, carbon-based coiled steel tubing may be suitable. But as conditions become more challenging, we see rising interest in corrosion-resistant alloys to ensure safety and better productivity. First, there is a need to maintain the lifetime of the coiled tube following uncoiling and recoiling in sour conditions. Second, as coiled tubing strings become longer, due to greater sea depths, there is also a need to reduce weight. Finally, nobody wants to lose a nozzle, motor or jetting tool when a coiled tube snaps at the goosehead or buckles in a deviated or horizontal well.

BETTER FATIGUE RESISTANCE, LONGER LIFETIME

With intervention vessels costing $250,000 – $300,000 a day, there is no time to waste. To overcome the above challenges and ensure safe, efficient repairs, we offer a wide range of reliable coiled tubing in ODs of 1.5 to 2.387” and reel lengths up to 15,000 feet. Depending on your well intervention needs and the environment of your subsea wells, you can pinpoint the type of material that’s best suited to open new possibilities for you.

LONGER WELD-FREE COILED TUBE LENGTHS

For stimulating deeper wells, you may also need to inject acids, steam or chemicals at higher pressures using long lengths of coil. Fewer welds, the better.

To meet this need, our high-precision tubing unit in Werther, Germany, has developed a way of producing stainless tubing in lengths exceeding 3,280 feet (1000 m). In effect, this helps take risk out of the equation, providing a continuous supply of weld-free material. The new production program has received ISO 50001, NORSOK and DIN EN 9100 certification.

LONG LENGTH COILED TUBE: Our high-precision tubing unit in Werther, Germany is capable of providing coiled tubing in weld-free lengths of 3,280 feet (1,000 m), thus reducing the risk of joint cracking or corrosion. Each reel can accommodate up to 19,000 ft (5,791 m).

Sandvik SAF™ 2507 coiled tube: With its high mechanical strength and resistance to stress corrosion cracking (SCC), pitting and crevice corrosion and general corrosion, this tube is ideal for typical well intervention needs:

- Well cleanout or perforating the well bore
- Solid and scale removal, milling and fishing
- N2 lifting, plug and abandonment
- Supporting wash nozzles, motors, mills or rotary jetting tools
- Sand control, cementing, hydraulic and acid fracturing
- Handling tubing in well pressures up to 12,000 psi
- Resisting corrosion from H2S, CO2 and chloride contents
- Economy, safety and weight savings
WHEREVER YOU ARE, WE’VE GOT YOU COVERED

Are you doing well intervention in the Gulf? Overseeing workover in hot and sour wells off the coast of Brazil? We are a global company, present in 150 countries, including major oil hubs such as Aberdeen, Stavanger, Houston, São Paulo, Dubai, Kuala Lumpur and Singapore.

SUPPORTING YOUR GLOBAL BUSINESS
Over the years, we’ve provided corrosion-resistant OCTG tubing, control lines, coiled tubing, riser pipe, powder-based HIP products and umbilical tubing to virtually every major oil and gas player and oilfield services company. Our manufacturing facilities are located in Sweden, Czech Republic, USA, Canada, China, India, France and Germany. Steel melting and our main plant for coiled tube and other well intervention products are situated in Sandviken, Sweden.

CLOSE TO YOUR WORKOVER TEAMS
Uniquely, we control the entire production process – from melt to the finished product – meaning that we offer full traceability for every batch and tube. In recent years, we’ve also opened a network of O&M centers of excellence, including our new Asia Pacific headquarters in Kuala Lumpur, Malaysia. Most of these centers keep a stock of standard coiled tubing and other workover materials to secure fast response in the oil-producing regions. So whatever your well intervention goals may be, we help you get there.

SANDVIK OIL AND GAS OFFICES:
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UK
Aberdeen, Scotland
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UAE
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