

# Meet

## The future is now!

A new Sandvik is here



**Growth:**  
How Sandvik  
will grow

**Interview:**  
“Flying  
offers new  
perspectives”

**Digitalization:**  
Tools in the  
digital age

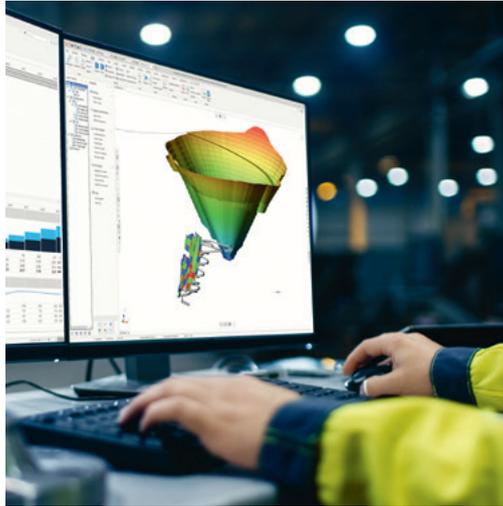
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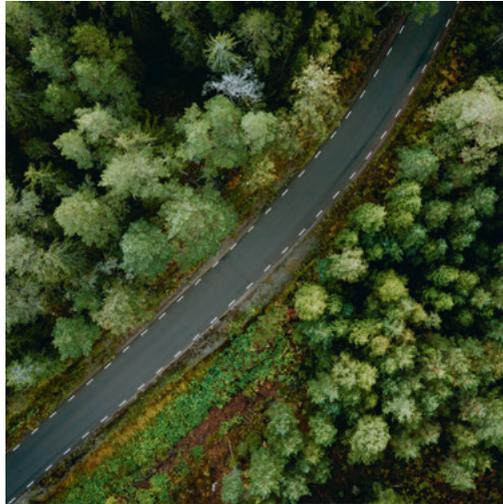
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Meet Sandvik, a Sandvik Group magazine  
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Production: Content Innovation  
Writers: Danny Chapman, Jonas Rehnberg, Cari Simmons  
Print: Falk Graphic, December 2023  
Published in Swedish and English,  
in printed form and on our website: [home.sandvik.com](http://home.sandvik.com)  
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# Welcome to a new magazine

This issue of Meet Sandvik looks different than it usually does. Its transformation follows the launch in September of a new brand platform and logo, which you can read more about on page 29.

The brand launch and redesign of the magazine is a reflection of the transformation Sandvik has undergone over the past few years. We have acquired a number of companies in software for component manufacturing, round tools, medical technology, battery technology, and ground support. We have also spun off the steel and alloy manufacturing business, which was distributed and listed on the stock market as Alleima.

It is therefore, to a large extent, a new Sandvik that received an updated look in September. It's a Sandvik transformed to take advantage of the future growth opportunities

we have identified, with a focus on digitalization, automation and electrification. You can read more about how we are future-proofing Sandvik on pages 12–25.

We have also increased our focus on an agile work approach where we quickly react to market changes. During the second half of the year, we have seen weaker development and lower volumes in some customer segments, but we have nevertheless been able to deliver stable results.

**Stefan Widing, President and CEO**

The latest  
interim report  
from Sandvik:



# A revolution in drilling

Sandvik Alpha® 340 drilling tools are the latest innovation in top hammer drilling for mine development and tunneling.

**Selected benefits:**

Lower stress levels in critical areas.  
Larger thread diameter.  
Easier to uncouple.

Bigger flushing hole,  
reduced risk of jamming.  
Increased Rate Of  
Penetration (ROP).

Sandvik Alpha® 340 is  
advanced and optimized  
for fatigue strength.

# 10-20%

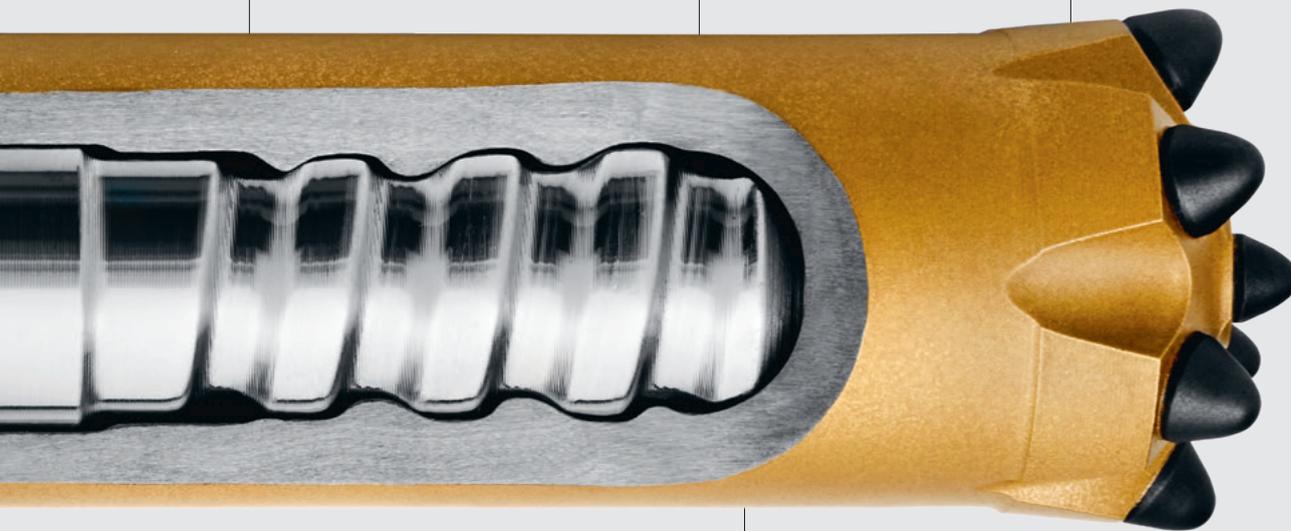
lower rock tools costs per meter (CPM) drilled.

# 80%

shorter uncoupling time.

Asymmetric thread profile.  
Strength where you need  
it. Easy to uncouple.

Increased thread  
diameter. Higher fatigue  
strength and longer  
service life.



Larger guide section and  
increased rigidity.



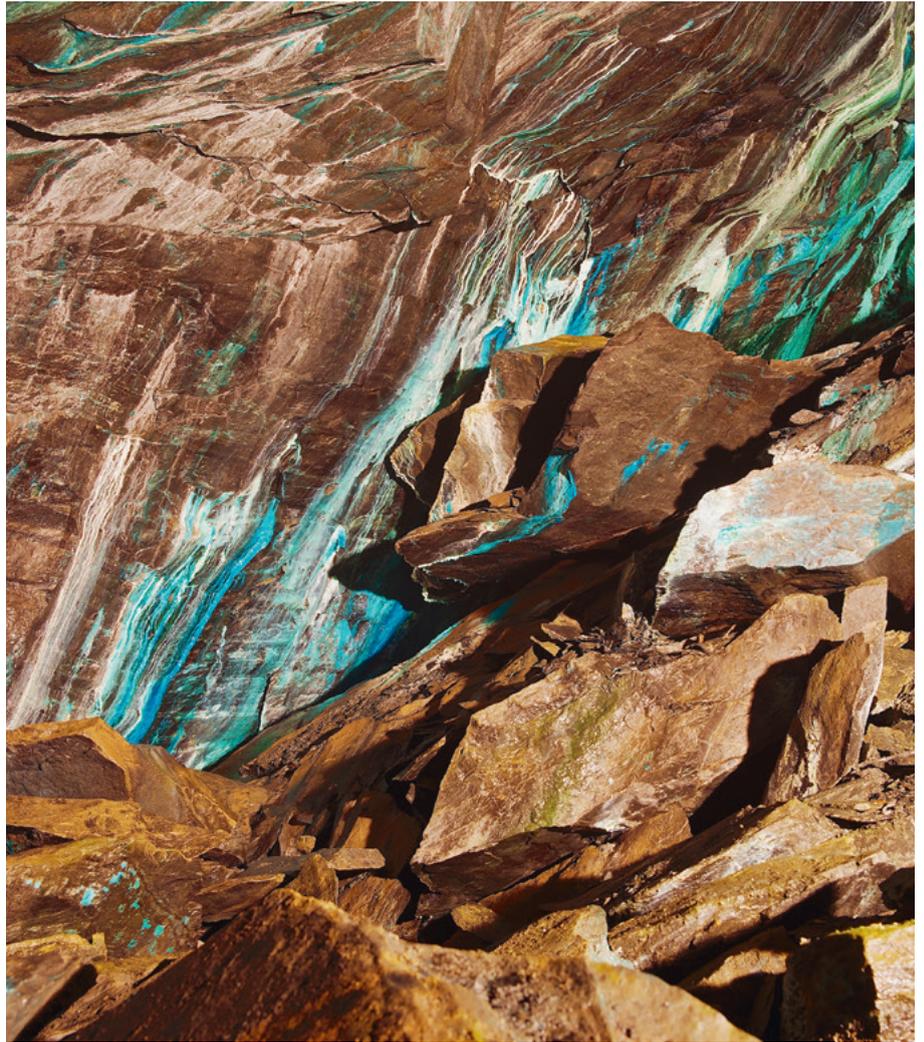
## Versatile and sustainable crusher

Sandvik has launched a fully electric heavy jaw crusher, UJ443E, that is designed for hard and abrasive rock applications. The crusher has been designed with an increased focus on sustainability, productivity, and durability, whilst retaining the look, feel and value proposition customers demand. It provides customers with up to 30 percent reduction in

fuel consumption and up to 30 percent increase in throughput versus previous generation products. The crusher also offers many key features such as enhanced connectivity and a redesigned feed station for improved maintenance access. The fully electric track and final drives allow a decrease in the use of hydraulic oil on the plant by up to 91 percent.



Designed for hard and abrasive rock applications.



Copper is an important material for the green transition.

## Copper load

Sandvik has received an order from Sociedad Punta del Cobre S.A (Pucobre), one of the largest underground copper producers in Chile. The order (approximately SEK 100 million) includes autonomous loaders equipped with AutoMine® Multi-Lite, a highly advanced automation system. It enables the remote supervision of multiple automated Sandvik underground loaders and trucks, for improved productivity, safety and cost efficiency in underground mining operations.

# 30%

Up to 30% lower fuel consumption and up to 30% increase in throughput with the new crusher.

# Sandvik secures fossil fuel-free steel



Mats Eriksson, Sandvik, and Johnny Sjöström, SSAB, sign the letter of intent.

Sandvik and steelmaker SSAB have signed a letter of intent for the purchase of fossil fuel-free steel to be used in the production of Sandvik loaders and trucks for mining.

SSAB aims to deliver the steel to the market on a commercial scale in 2026. A signed letter of intent ensures that Sandvik will receive deliveries of fossil-free steel from SSAB, within the company's production capacity. Sandvik can also apply for early fossil fuel-free sample deliveries of, for example, a prototype frame, loader bucket or truck box to be used in a demo or concept product.

"Sustainability is at the core of our business strategy, and as the market demand for fossil fuel-free products increases in the years ahead, this partnership will enable us to offer our mining customers solutions with a drastically reduced CO<sub>2</sub> footprint," says Mats Eriksson, President

of business area Sandvik Mining and Rock Solutions.

"We're excited about supporting the sustainability journey of our customers in the mining industry," says Johnny Sjöström, Head of SSAB Special Steels. "SSAB's fossil-free steel has the same high quality as traditional steel but with a much smaller climate impact. It will help reduce our customers' carbon footprint and offer a competitive advantage in the market."

SSAB delivered the first steel made of hydrogen-reduced iron in 2021. The steelmaker works together with iron ore producer LKAB and energy company Vattenfall as part of the HYBRIT initiative to develop a value chain for fossil fuel-free iron and steel production. This replaces coking coal traditionally needed for iron ore-based steelmaking with fossil fuel-free electricity and hydrogen. This process virtually eliminates carbon dioxide emissions in steel production.

# Ground-breaking drill rig

Sandvik has unveiled its second battery-electric concept surface drill rig. The BEV is the first in its size class, capable of drilling DTH holes up to 229 millimeters (9 inches) in diameter.

With the drill rig, Sandvik showcases the latest technology advancements to push the potential of more sustainable surface drilling.

"With the industry shifting towards intelligent, autonomous and emission-free equipment, surface drill rigs need to be reinvented," said Lauri Laihanen, Vice President, R&D, Surface Drilling Division, Sandvik Mining and Rock Solutions.



The new concept drill rig pushes boundaries of emission-free surface drilling.



# Break-through innovation gets prize

A team from Sandvik Coromant has come up with TiAlN/TiSiN nanomultilayers, a new coating platform for PVD with improved wear resistance and toughness – and they have received the 2023 Sandvik Innovation Prize for their efforts. All new PVD coating processes will be based on this innovation, which is being implemented in the next generation of products.

Physical vapor deposition (PVD) is one of two technologies used at Sandvik Machining Solutions for coating cutting tools. For over 20 years, TiAlN of different compositions has been the dominant coating material for PVD, and general improvements in the materials system have earlier been difficult to find.

## The winning team



Carl-Fredrik Carlström



Katherine Calamba Kwick



Lars Johnson



Marta Saraiva



Ebba Saikoff

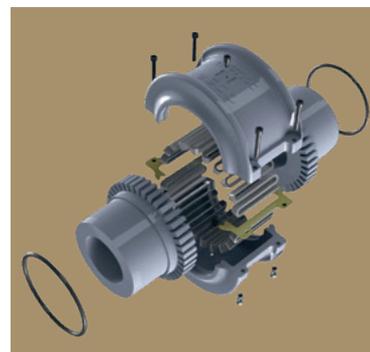
## In short

### Buffalo Tungsten acquisition

Sandvik has signed an agreement to acquire Buffalo Tungsten Inc., a leading US-based manufacturer of tungsten metal powder and tungsten carbide powder, primarily operating in North America.

### Acquisition of software supplier

Sandvik has acquired esco GmbH engineering solutions consulting, a German-based supplier of software for power skiving, an important technology within gear machining. In 2022, the company's turnover was approximately SEK 14 million.



### Capital Markets Day

Sandvik held its Capital Markets Day on 28 November in Tammerfors, Finland. Presentations from the day can be found here:





# Important CAM complement

Sandvik has acquired Postability, a Canadian-based global software firm developing NC (numerical control) post processors for Mastercam. Post processing is an important step in the Computer Aided Manufacturing (CAM) process. "The acquisition of Postability fits very well with our strategic focus to grow in the digital manufacturing space," says Stefan Widing, President and CEO of Sandvik, adding that the acquisition will enable innovative new solutions in automated design for manufacturing. Postability is headquartered in Cambridge, Ontario and had revenues of approximately CAD 4.1 million (over SEK 30 million) in 2022.

# 460

million SEK is the mining equipment order worth.

## In short

### Major order of Toro® loaders

Sandvik has won a SEK 460 million order in Australia for underground mining equipment. The order includes Toro® TH663i underground trucks, Toro® LH517i and Toro® LH621i underground loaders, as well as a Sandvik D422i development drill rig with dual control. Delivery of the equipment is currently underway and will continue into 2025.



### SBTi approved

Sandvik targets for reducing greenhouse gas (GHG) emissions have been validated by the Science Based Targets initiative (SBTi). With the new targets, Sandvik, for example, commits to reaching net zero GHG emissions by 2050 at the latest. The SBTi is a collaboration between CDP, the United Nations Global Compact, World Resources Institute (WRI) and the World Wide Fund for Nature (WWF). It accelerates companies' efforts to reduce emissions.

### Sweden's best website

Sandvik was named "Listed Company of the Year" (Årets börsbolag) in Sweden's most extensive ranking of investor relations and financial communication. The competition, which was founded in 1980 and is now run by consultancy company Kanton, includes all companies listed on OMX Stockholm 30 and OMX Nordic 40. The jury recognized Sandvik for its transparency and consistent information in financial reports and on the website.

# Q+A: Jenny Hörnlund

Three quick questions to the Head of Sustainable Manufacturing at Sandvik on the latest developments.

Jenny Hörnlund is  
Head of Sustainable  
Manufacturing at  
Sandvik Manufacturing  
Solutions.



**What are you focusing on at the moment?**

“We are exploring and evaluating which innovative features are needed in our software products in order to support our customers in sustainable production. A concrete example is to develop tools that can optimize manufacturing processes and reduce energy consumption.”

**What makes this so exciting?**

“It is in the production area that the real change needs to happen. It is incredibly inspiring to see the strong willingness among companies to drive sustainability work forward. This leads not only to increased investment in the area, but also to a genuine force for innovation. It is very exciting to be part of this journey and to contribute to a more sustainable future in the manufacturing sector.”

**What do you think will happen in the future?**

“The new regulatory requirements and the increased focus on sustainability among large companies will put significantly higher demands on all suppliers when it comes to reporting and improving their carbon footprint. I believe that value chains will be transformed and there will be more circular models. I am convinced that we are only at the beginning of a major transition.”



How are we positioning ourselves for the future? And where do we see potential growth? We highlight priority areas for Sandvik connected to challenges and changes in the world.

A woman with dark hair, seen from the back, is looking at a control panel in a factory. She is wearing a dark blue t-shirt with the Sandvik logo. The control panel displays a circular gauge and various data points. The background shows industrial machinery and a blurred factory environment.

What's  
next?

# Stefan Widing: “Our combination is unique”

From electric mining equipment and digital component manufacturing to eco-efficient rock processing: President and CEO Stefan Widing outlines how Sandvik will excel in tomorrow's world.

By Danny Chapman  
Foto Karl Nordlund



Over the past few years, the Sandvik Group has undergone a major transformation. Parts of the Group have been divested and, in 2022, Sandvik Materials Technology, its steel and alloy business, was separated and listed on Nasdaq Stockholm as Alleima. There have also been many acquisitions in areas such as software solutions, solid round tools, medical and ground support.

For Stefan Widing, President and CEO at Sandvik, the transformation is part of a plan to future-proof Sandvik and strengthen the company in selected growth areas.

#### **A unique combination**

Widing sees growth opportunities for Sandvik in all of its core business activities. "Within component manufacturing, for example, we will continue to invest and drive growth in our traditional core business, and we have made several round tools acquisitions," he says. "But there are also exciting new developments related to cutting tools for the medical sector and for lightweight materials."

These include the manufacture of micro precision tools used in the automotive, aerospace, energy and medical sectors, for example for cutting holes. "The medical segment in particular is growing throughout the world, driven by macro trends such as an aging population and a growing middle class," he says.

Widing envisions component manufacturing as an automated process, from start to finish.

"We come from the hardware side with our cutting tools, where we are number one in the world. Adding software solutions is a natural step, and together with our knowledge of the machining process, no one will be able to do a better job than us. Our combination of hardware and software is unique," he says.

#### **Sustainable mine of the future**

The growing demand for metals and minerals shows potential in the mining and rock processing industries as well, says Widing. "We expect the very good growth in mining to continue for decades, and as the number one company in the world within mining equipment and mining solutions, we are in a very good place."

Digitalization and automation are strong drivers in the mining sector and Sandvik has strengthened its offering through innovations and acquisitions within, for example, mine planning, ground support and battery diagnostics.

Stefan Widing sees plenty of growth opportunities throughout Sandvik.

**"We see a clear trend towards electric mining equipment, which currently accounts for more than ten percent of new orders."**

Sandvik is also the world leader within electric mining equipment and even if it accounts for a small portion of the company revenues, Widing foresees excellent potential for growth.

"We see a clear trend towards electric mining equipment, which currently accounts for more than ten percent of new orders. We have therefore set a tentative target that at least half of the equipment we sell will be electric in 2030."

#### **Eco-efficient rock processing**

Sandvik Rock Processing Solutions is the Group's smallest business area, but here too, growth opportunities are positive, and directly correlated to the need for more metals and minerals.

"You can't get minerals out of the mine if you don't crush the big rocks into smaller rocks. Crushing and screening is also essential for infrastructure projects, like building roads and houses."

There are sustainability aspects to crushing as well. Old concrete from buildings, for example, needs to be crushed and sorted before it can be reused. Another aspect is the correlation between crushing and grinding in the value chain. After the crushing phase comes the grinding where the stones are made even smaller, in a very energy-intensive process. "The finer you can crush, and exchange grinding with crushing, the less energy you will use," Widing points out.

#### **Continually innovating**

Innovations are as important for the growth of Sandvik as acquisitions, and maintaining an innovative culture is critical for the future, says Widing.

"Sandvik is built on innovation. We need to continue to invest in R&D but in the end, it's about the culture of the company. Early in my career I worked with agile software development. It taught me a lot about the importance of having a culture and leadership model where you trust the teams and let them figure out how to do things in the best way."

Widing concludes: "Ten years from now, I believe Sandvik will be described as one of the world's leading industrial technology companies."





# Digital goes deep

Sandvik is making the digital shift worldwide. At the test mine in Finland, Sandvik is developing new technologies and the acquisition of Deswik has opened up new opportunities within mine planning.

By Jonas Rehnberg  
Photos Adam Lach, Johan Artursson  
& Drew Forsyth

Mining is one of mankind's oldest endeavors, as crucial to the development of civilizations throughout history as it is to the energy transition that is required today. Digitalization holds the key to cleaner, safer and more productive mining operations. At Sandvik, automation, electrification and digitalization combine to change the face of mining.

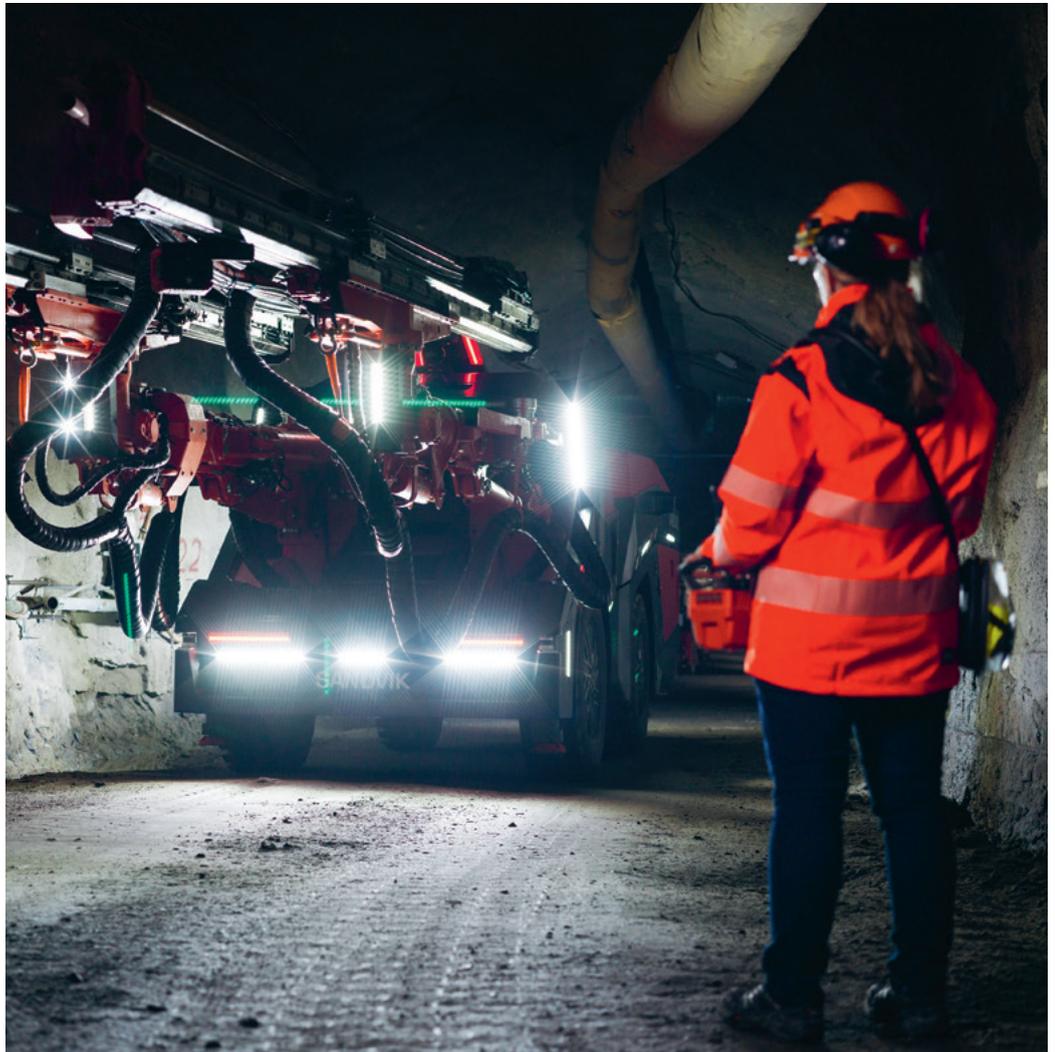
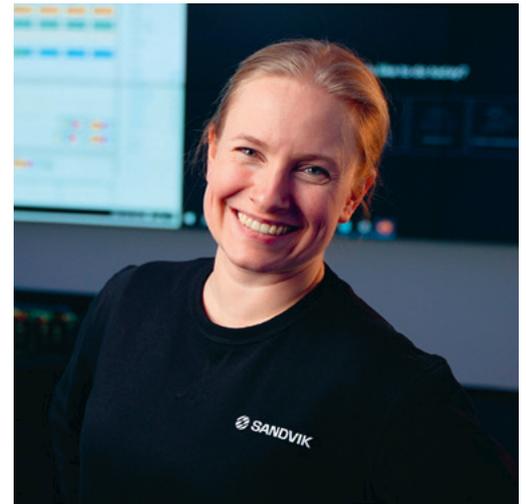
Laura Hokkanen, Test Mine Digitalization Lead at Sandvik Mining and Rock Solutions, believes digitalization is vital in helping mining operators solve the ever-increasing safety, productivity and profitability challenges.

"From autonomous and connected equipment, to data analysis and process optimization, we're launching new digital solutions to help improve safety, reduce environmental



Automation of the mining industry has many advantages, such as a better work environment.

Laura Hokkanen, Test Mine Digitalization Lead at Sandvik Mining and Rock Solutions.



impact and optimize efficiency and profitability," she says.

AutoMine®, for example, covers automated and autonomous products, providing round-the-clock data on condition and performance. "This helps mines increase production, cut operating and maintenance costs and extend equipment life," Hokkanen adds. "We also offer data-driven productivity solutions through our modular OptiMine® information systems."

#### VR possibilities

Digital solutions from Sandvik are literally breaking new ground. Consequently, they need to be thoroughly tested before being put to work in an actual mine. Sandvik operates a state-of-the-art test mine in Tampere, Finland,

with six kilometers of tunnels at a depth of 40 meters.

"The test mine serves research and development needs, and provides real mine conditions for rapid prototype testing and quality assurance verification of underground equipment before customer delivery," says Hokkanen. "It's also a center of excellence where we offer competence development

Sandvik operates a state-of-the-art test mine in Tampere, Finland.

to our customers and undertake research projects behind closed doors.”

Visitors to the test mine can wear virtual reality (VR) equipment to experience remote operation of fully automated equipment, with the help of the latest connectivity solutions.

Hokkanen says the test mine plays a crucial R&D role at Sandvik: “The realistic underground mining environment, with no ongoing ore production, is unique and essential for real-life testing of the capabilities of new technologies and new safety systems.”

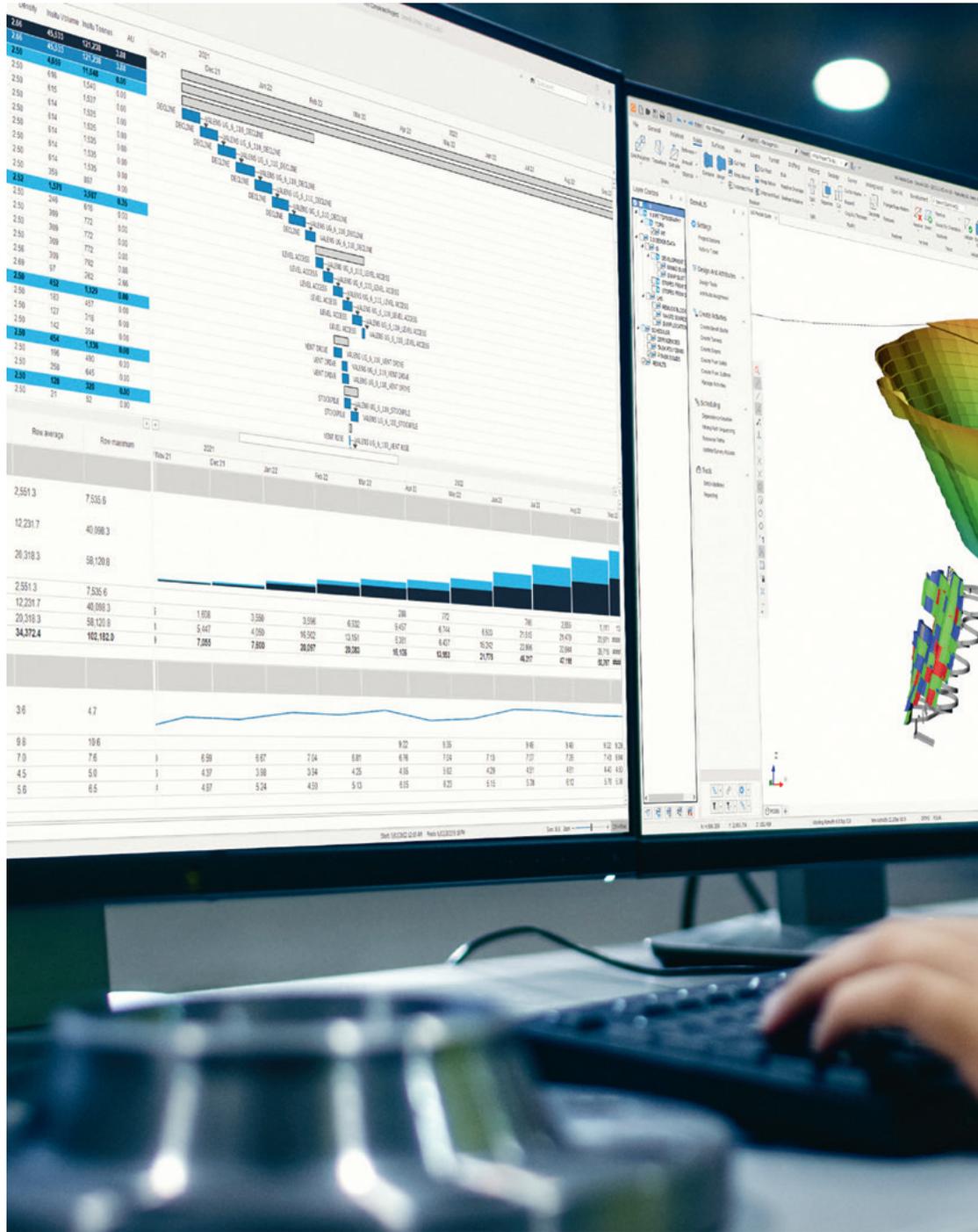
For miners, digitalization, automation and electrification combine to create an entirely new workplace: “There’s less noise, reduced risk of accidents and no exposure to hazardous fumes. They get a better overview of the status of their machines and operations, and the tools they use become smarter and more precise,” Hokkanen points out.

**People-centric digitalization**

The sustainability aspect is important. Electrification and automation reduce the need for ventilation tunnels, as no diesel fumes are emitted. Digitalization also facilitates a more efficient extraction of deposits with the help of digital mine planning tools from Sandvik.

Despite the allure of hi-tech, Sandvik seeks to put humans first and emphasizes human-centered digitalization. “Innovation has to make sense to users, who have to feel that it’s really helping them. A human-centered design approach ensures that people can quickly adopt new tools and harness the benefits of new technologies,” says Hokkanen.

When digitalizing a work process you need to ensure that you don’t take away those aspects that are perceived as meaningful or rewarding to a human user, she points out. “It’s important to have a sense of being in control and to feel that you are still the professional whose expertise matters in the world of data. We need to develop solutions that a miner can trust as much as her or his own instincts.”



Calliope Lalouis, Chief Operating Officer, Deswik.



6

The test mine in Tampere is a six-kilometer labyrinth of tunnels.

50

Deswik software is used in over 50 countries.



The Deswik mine design and scheduling software is used by mining engineers, geologists, surveyors and production superintendents.

#### **A new field for Sandvik**

In 2022, Sandvik acquired Australian Deswik, a leading provider of mine planning solutions. For Sandvik, it is a new area and offering, and also another step towards the digital shift. Deswik has a portfolio including software for computer-aided 3D mine design, scheduling, operations planning, mining data management and geological mapping.

Deswik software is used by a range of mining professionals, including mining engineers,

**“We need to develop solutions that a miner can trust as much as her or his own instincts.”**

geologists, surveyors and production superintendents for a range of tasks throughout the mine planning process.

Deswik’s integrated solution seamlessly links mine design and scheduling tasks. Data and workflows are streamlined across teams and systems, enabling management of design solids in the CAD platform. Any changes are dynamically reflected in their associated scheduling tasks in real-time.

The Mining Data Management solution (MDM) is also integrated with the CAD graphical platform, and assists in preserving data integrity and minimizing uncertainties by providing a single source of truth for the entire technical services team. By working with the same information, mines can better facilitate scheduling and shift planning to achieve the critical path.

#### **Deswik optimizes planning**

Calliope Lalousis, Chief Operating Officer at Deswik, explains that among the software’s strengths are the integration between Deswik’s core products and task-specific modules, along with powerful visualization tools. “Our optimization tools enable users to rapidly generate and evaluate multiple scenarios to extract the highest possible value from the ore deposit, thereby minimizing risks and maximizing the Net Present Value,” she says.

“An optimized plan allows for more sustainable and profitable operations, with a more efficient extraction process. Good mine planning, however, is not possible unless considered within the context of final mine closure and relinquishment. Knowing how to plan for closure and manage waste from the early stages of the mining lifecycle can prove to be a huge advantage for managing risk, given the costs and environmental constraints involved in mining projects.”

# Cutting into the medical industry

Sphinx Tools makes drills that are smaller than human hairs. Acquired by Sandvik for its precision tool expertise, the Swiss company is also strengthening the Group's position in the medical sector.

By Danny Chapman

Sphinx Tools was established in Switzerland in 1994 as the result of a management buy-out from Sphinxwerke Müller AG, that traces its origins back to 1876. "There is a long tradition in Switzerland for making precise, reliable, small and exact components," says José Hernandez, Head of Sales, Sphinx Tools. "And Switzerland still has an important fine mechanics industry where precision components are made for many industries."

## Perfect holes

Today, Sphinx Tools has three production sites in Switzerland, with 150 employees. They design, manufacture and sell micro tools around the world, mainly for the automotive, aerospace and medical industries. They manufacture niche products and are among the best-known manufacturers of micro cutting tools in the world.

The company's tools can be used to make holes in different metals and synthetic materials. They are experts when it comes to making tools with high demands, tight tolerances, and from challenging materials. They make tools that are so small, they would break if you touched them with your finger, but which can still be used to make perfect holes in stainless steel.

Sandvik acquired Sphinx Tools in 2022. The main purpose of the acquisition was to strengthen its position in round and micro tools, a strategic area for the Group. But having worked with the medical sector for around 35 years, Sphinx Tools is also helping Sandvik develop in an area full of healthy growth opportunity.

Sphinx Tools develops, manufactures and markets tools for the manufacturing industry.

Its relationship with the medical sector is however much more about strategic partnership. Sphinx Tools is a contract manufacturer of medical instruments. The customers, who are responsible for the design and marketing of the tools, partner with Sphinx Tools which has the expertise to manufacture them.

Precision is vital, and much specific know-how is required for making the medical tools that go inside the human body. Sphinx Tools ensures that the manufacturing process meets the customer's exact specification. Whatever material, tolerance, hardening, electro polishing, laser marking and even packaging the customer specifies, the company meets it exactly. The final packaging for medical tools is important, as some products need sterile packaging. Sphinx does this in the company's own certified clean room.

Requirements and norms for tools in the medical industry are very high and the regulations are demanding. Sphinx Tools therefore ensures that manufacturing processes are inspected, validated and certified. Traceability and repeatability of the tools is guaranteed by meeting norms ISO 9001:2015 and EN ISO 13485:2016

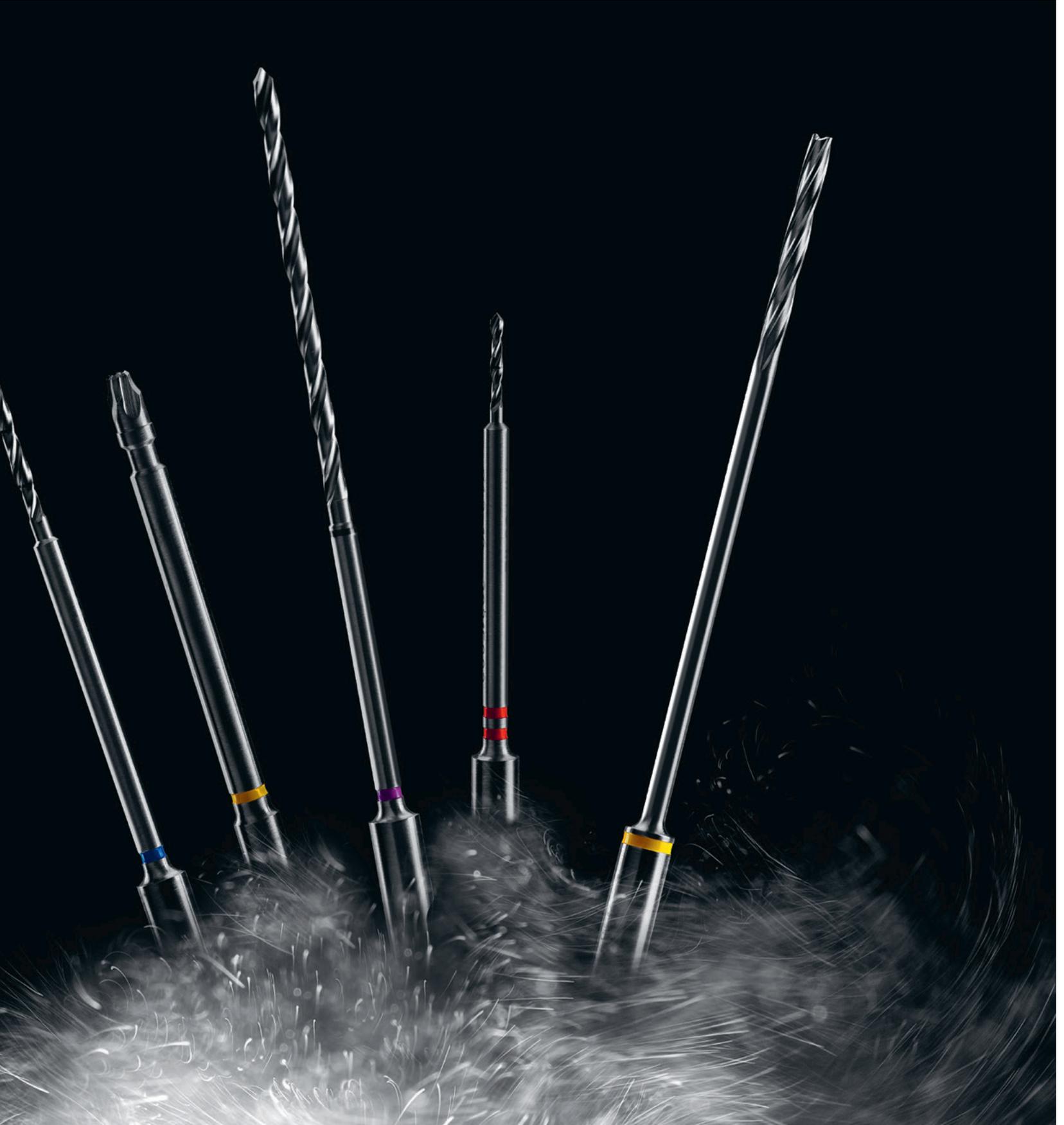
## All custom made

The company currently makes thousands of medical tools a year, all of which are custom-made. They are mostly used in orthopedic and trauma surgery.

Despite the challenges of the market, the competences that Sphinx Tools has means that it is well placed to take advantage of the growth opportunities in the medical sector.



Sphinx Tools makes thousands of different medical tools a year.



# A vision for a sustainable future

With an updated sustainability strategy, Sandvik invests in the future. What's good for the planet is also good for business.

By Danny Chapman  
Photos Getty Images and Karl Nordlund



The new Sandvik sustainability strategy is a comprehensive update of the sustainability shift strategy that was launched in 2019.

“We are leaning on the good work that has already been done,” says Mats W Lundberg, Head of Sustainability, Sandvik. “But the field of sustainability is evolving. It is becoming more mature, with new legislation and increasing customer, shareholder and employee expectations. We need to evolve with it and meet the new demands.”

The structure of Sandvik have also changed since 2019 and many new companies has been acquired. Hence the need for a sustainability strategy that reflects the new Sandvik.

### Focused on creating value

The new strategy shows that Sandvik is taking its responsibilities seriously, as well as taking on a leadership role. “We have focused much more on our contribution and how our business creates value”, says Lundberg. “The new strategy is connected to the Sandvik purpose of advancing the world through engineering, it is forward leaning and shows that Sandvik wants to be a positive driving force.”

The updated strategy broadens the scope of the four previous focus areas and includes two new areas: ecosystems and sustainable solutions (see sidebar).

“For any product to be truly sustainable, the entire value chain needs to be sustainable, from raw material sourcing to the manufacturing and usage of the products. If we succeed, we can have an enormously positive impact,” says Lundberg.

The previous climate goal has been changed to a net zero goal. In September, Sandvik had its climate goals approved by the Science Based Targets initiative. They include reducing scope 1 and 2 GHG emissions (emissions from own operations and energy purchasing) by 50 percent by 2030, with 2019 as the base year, and to reduce absolute scope 3 emissions (from sourcing, transport and usage) by 30 percent.

“Our commitment also includes becoming net zero 2050 at the latest,” says Lundberg.

### Business opportunities

Lundberg emphasizes that the updated sustainability strategy is also a business sustainability strategy. “It is deeply connected to business opportunities and providing innovative sustainable solutions for our customers and society,” he says. “We believe that our biggest contribution is to help our customers make a sustainable transition through the solutions that we provide. Everything we do, therefore, from R&D to production to sustainable sourcing, needs to be thought through and connected.”

“By getting our sustainability strategy right, we are also vaccinating the system against the bad and promoting the good in one go,” Lundberg adds. “We reduce risk and

increase business opportunity, brand value and shareholder value. Companies who fail to meet legislative demands will be fined or barred from operating in certain markets. They will lose customers – who increasingly put demands on their supplier’s sustainability credentials – and lose investors, eventually going out of business.”

### Starting at the end

Another new aspect of the updated strategy is the future vision for each Sandvik business.

“When designing the updated strategy, I asked everyone I talked to across Sandvik to think about what their industry, business and offering will look like in a sustainable future,” Lundberg says. “I wanted to start at the end point, the Paris Agreement and the need to be net zero by 2050. We are committed to this agreement and it is only 26 years away. By starting at the end, we can work out exactly what we need to start doing right now to get there. What will, for example, the sustainable mine of the future look like and how can we contribute to it?”

For Lundberg, this is a fresh approach for a business. “It shows that Sandvik understands the world,” he says. “We want to be responsible and contribute our piece to this big puzzle. Hopefully our customers will see that we have a plan and are heading in the right direction, and be inspired to collaborate with us on this journey.”

The 2025 and 2030 goals established in 2019 will stay the same. Over the next year, Sandvik will develop new goals and targets for 2040 and 2050 and refine the strategy even further. This will also include more individual goals and targets relevant to each business area, as opposed to the previous, more general approach.

Read the updated Sandvik sustainability strategy here:



### The six focus areas in the strategy

#### Sustainable solutions

A new focus area, strongly connected to customers’ businesses.

#### Ecosystems

Another new area, related to how Sandvik works with partners across the value chain to regenerate biodiverse ecosystems, aid water stewardship and reduce pollution.

#### Circularity and resource efficiency

The goal reflects the aim to do more with less and adopt resource efficiency as a mindset.

#### Net zero

Sandvik has committed to science-based targets which were approved by the Science Based Targets initiative in September 2023.

#### People and communities

How Sandvik relates to the communities in which it operates.

#### Responsible business

How Sandvik operates responsibly throughout the value chain.



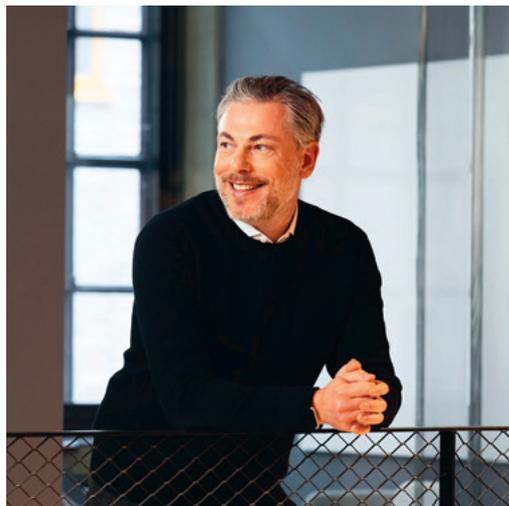
Mats W Lundberg, Head of Sustainability, outlines the new sustainability strategy.

# Sandvik tools in the digital age

By combining tools with digital processes, Sandvik can offer customers more efficient and sustainable manufacturing solutions.

By Jonas Rehnberg  
Photos Getty Images & Karl Nordlund

Magnus Malmström,  
CTO at Sandvik  
Manufacturing  
Solutions.



Over the past few years, Sandvik has been adding software and digital solution capabilities to its tool offering through various acquisitions. By applying digital solutions before, during and after physical production, component manufacturers can step into the world of smart manufacturing and reach new levels of efficiency and sustainability.

“Sandvik offers solutions that help our customers future-proof their operations and increase the level of automation by leveraging the combination of our unique physical and digital strengths. We want to simplify for our customers by digitalizing and sharing our knowhow,” says Magnus Malmström, CTO at Sandvik Manufacturing Solutions.

Tobias Unosson, Product Manager at Sandvik Coromant, says the manufacturing sector is undergoing a transformation brought on by the marriage of digital and physical. “Today’s software and solutions are sophisticated enough to radically transform the metal-working world. Selecting tools and methods with the help of data results in lower costs, less waste, higher quality and lower energy use.”

Digitally enhanced decision-making can make a huge difference when selecting tools. Using the right tools and methods in the right order reduces machine wear and saves resources. “The CoroPlus® Tool Library from Sandvik Coromant facilitates automation, increases efficiency and simplifies the

process of selecting the right tools for the job,” says Malmström. “Tool data, ready-to-use toolpaths and machining instructions are updated in real time from the cloud, enabling companies to utilize it directly in the Sandvik brands’ CAM software to boost productivity and become more sustainable.”

With Sandvik Coromant alone offering some 60,000 tools that each may be used in different ways, digital assistance certainly helps, particularly for less experienced machine operators. “Finding skilled and experienced staff is becoming a growing challenge for many of our customers. That’s why Sandvik is seeking to reshape the industry by simplifying manufacturing. Digitalized tools are embedded with capabilities that used to exist only inside the heads of the operators,” says Unosson.

## Key to digital manufacturing

Sandvik offers an agnostic approach, meaning hardware from other vendors is also available as digital twins. The flow of data between different production stages – from design and production planning to manufacturing and verification – is key to digital manufacturing. Externally, the sharing of data paves the way for more sustainable manufacturing by enabling end-to-end visibility and traceability throughout the supply chain.

This offers end users better visibility into



Physical tools and digital processes complement each other.

the environmental and social impact of the products they produce or consume. “This transparency can empower customers to make more informed purchasing decisions based on sustainability criteria, driving demand for sustainable products and encouraging manufacturers to adopt sustainable practices. Furthermore, it enables a circular economy,” says Malmström.

For the workshop, the flow of data adds spin-off bonus effects such as information on how the choice of tools affects performance when different raw materials are used. “Tooling and performance data fed into the CNC machine can also help prevent collisions and damage to sensitive components,” says Unosson.

The Sandvik Manufacturing Solutions business area segment is home to several providers of digital solutions and software

**“Sandvik offers solutions that help our customers future-proof their operations.”**

covering the entire manufacturing value chain. They are integrated with the hardware offered by Sandvik Machining Solutions. CAD/CAM suppliers Mastercam, Cimatron and GibbsCAM, for example, were integrated with the CoroPlus® Tool Library this year. “A common digital interface with all the necessary digital and physical tools is just a click away,” says Malmström, adding: “Proven tool paths embedded in Sandvik CAM software combine the physical and digital to offer end users a simple way to obtain optimal productivity, tool life and process security.”

Another huge benefit of digital tools is that the manufacturing of components may be simulated in advance, to reach an optimal machining setup. The Vericut® software ensures each and every component precisely meets CAD requirements by calibration. “Vericut software, with the proper tooling data from CoroPlus, enables increasing optimization of production processes,” says Unosson.

#### **Focus on data analytics**

Sandvik digital manufacturing solutions are as useful for mass manufacturing of standard production items with continuous optimizations and refinements as they are for making innovative, first-ever components in small batches.

Physical workshops will change as a result of the digital transformation, Unosson adds.



Tobias Unosson,  
Product Manager at  
Sandvik Coromant.

“Machines will require less human interaction and more employees will focus on data analytics and process optimization. Connected tools and machines will enable a new level of digital support.”

Sandvik has been in business for more than 160 years and in the tooling business for over 80 years. Adding new digital services provided by the company’s newly acquired software companies has generated a string of added value to the hardware business, and vice versa. “We learn so much from each other,” says Unosson, “all for the benefit of the end user.”

# The sky is the limit

Moving to southern Sweden for a job at Sandvik opened many doors for Latifa Melk. It also gave her an opportunity to take to the skies.

By Cari Simmons  
Photos Johan Arthursson

Sandvik Materials Development Expert, Latifa Melk, has always had a passion for learning new things. This curiosity has served her well over the years and taken her on an academic path that began in Morocco and led to universities in France, Spain, and eventually much further north, to Luleå University of Technology in Sweden. There she was awarded the prize for the best PhD thesis in 2016 to go with her double PhD degree in Materials Science.

Today Latifa Melk lives in Svedala, southern Sweden, where she relocated in 2018 to work on material development within Research and Technology at Sandvik Rock Processing Solutions. She is currently working on the development of advanced and new materials for crushing applications.

## New materials development lab

"I love my job," says Melk, who works within the crushing solutions team and thrives on innovation. "We are about to build a new lab to speed up our materials development and increase customer satisfaction. It's a journey to be proud of and shows that nothing is impossible if you put your mind to it," she adds, after successfully championing Sandvik to invest in a new laboratory.

Customer benefits come first and foremost when researching new materials and solutions, Melk points out. Materials development at Sandvik focuses on making parts last

longer and improving performance and customer profitability.

When she's not working, Melk takes to the skies.

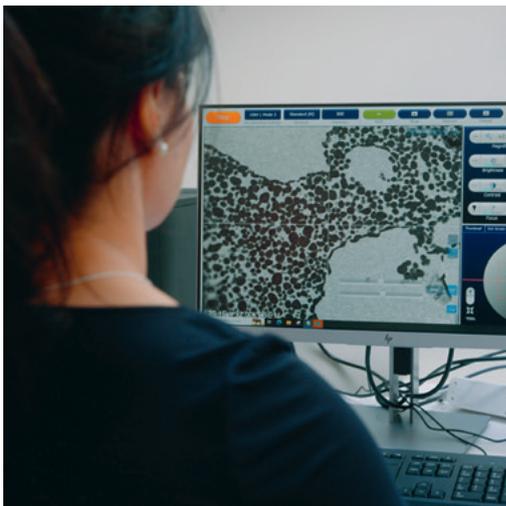
"I noticed the nearby South Sweden Flight Academy after moving to Svedala to work at Sandvik," she says. The prestigious flight academy attracts people from around the world, with weekend lessons conducted in English. Suddenly, Melk's childhood dream of flying was within reach.

## Flying instills confidence

"Flying offers new perspectives and has helped me cultivate a growth mindset where I am pushed beyond my comfort zone in my personal and professional life. Flying has also enhanced my decision-making and problem-solving abilities. You learn how to make quick decisions, develop creative solutions and improve your ability to collaborate with others.

Mastering flying instills in me the confidence that if I can conquer the skies, I can also conquer that ambitious work project!"

Flying also gives Latifa Melk a sense of freedom – something that she gets from Sandvik as well, she says, drawing a parallel between the two. "I get space, trust and the freedom to be creative and innovative at work. People are open to other ways of thinking at Sandvik. I like that I have their support and can hopefully inspire others too." →





**Latifa  
Melk**

**Location:**

Svedala,  
Sweden

**Role:**

Materials  
Development  
Expert,  
Research &  
Technology

**Hobbies:**

Flying, crossfit  
and yoga



Latifa Melk is studying for a private pilot license at South Sweden Flight Academy.

### 3 quick questions to Latifa:

#### What do you like about working at Sandvik?

“Sandvik has a good reputation and I’m living a company culture that matches my values. I’m happy with the trust and encouragement I’ve received and the opportunity for personal growth and competence development. Now, for example, I’m taking part in Sandvik global leadership training for experts.”

#### How has flying helped you at work?

“You learn to make quick decisions, solve problems and be responsible for your own safety and the safety of others.”

#### Do you have any advice for people starting at Sandvik?

“Be the change you want to see, stay curious and never stop learning.”



See our film with Latifa Melk:



# A bolder identity

Sandvik has launched a new brand identity and a new logotype. They symbolize the transformation into a “new” company, focusing on future growth areas such as digitalization and sustainability.



You may have noticed that Sandvik is looking different lately – a little more future-oriented, progressive, and bolder.

The new brand platform for Sandvik Group was launched on September 21, with a design and logo that is quite a departure from the previous identity.

“We want to convey the future Sandvik, which is more digital, sustainable, collaborative, modern and attractive for our different stakeholders,” says Björn Roodzant, Head of Group Communications and Sustainability.

**Digital tech focus**

The new brand platform has been designed to better represent the brand personality of Sandvik and the shift to future growth areas such as automation, digitalization, electrification, and sustainability.

Sandvik has acquired many new companies in recent years, a number of which are in the digital technology realm. There have also been numerous changes following the separation of Sandvik Materials Technology (renamed Alleima) from the Sandvik Group in 2022. “This is a strong reason to ensure that stakeholders know what Sandvik stands for today and tomorrow,” says Roodzant.

Many years have passed since the last logo change which, aside from a small adjustment in 2014, took place in 1984. The new Sandvik logotype, inspired by an earlier 1962 version, adds a round, more modern, and high-tech symbol to indicate the company’s purpose to make the shift and advance the world through engineering. “This symbolizes our role in bringing our customers upwards and onward. It also represents circularity, the planet, and being a global company. We are building on our longstanding heritage, but becoming more sustainable, digital and future-oriented,” says Roodzant.

The new black and white color scheme, with a touch of gold, is designed to better harmonize with the different brands and color schemes within the Sandvik family. It will be more aesthetically pleasing for example, when showing brand collaborations and endorse-



**The evolution of the Sandvik logo**



1876



1956 (1962)



1984



2014



2023



Together, the logotype, symbol, font, colors, imagery and graphic elements, represent the new Sandvik and its new identity.



“We want to convey the future Sandvik which is more digital, sustainable, collaborative, modern and attractive.”

ments in different settings such as trade shows, Roodzant points out.

“It’s our Sandvik Group identity but we’ve also built a flexible setup for our different brands. Brands within the portfolio can retain their names, colors, and logos, but on some platforms, they will also showcase being part of the larger Sandvik Group.”

#### More dynamic design

While the previous logo was boxed in, the new design is more dynamic and easier to apply in different contexts. “Freeing up the Sandvik logo from its box will help in digital applications. The previous identity was not fit for purpose in the digital world,” Roodzant adds.

Although the initial brand transition has taken place in digital channels and at key sites, the full brand identity transformation will extend over a three-year period. “This is smarter from a sustainability perspective, and well-perceived by customers, owners, and employees,” says Roodzant, pointing out that the company will continue to use equipment and materials branded with the old Sandvik logo until they are ready to be replaced due to natural wear and tear.

Many people were engaged in the branding project, working together under wraps to ensure its success. “People have seen the need for a new brand identity,” says Roodzant. “I’m very proud of the engagement from everyone and happy to make it a reality.”

It's a wrap!

### Tomorrow's engineers

The First Lego League competition was held during November at the National Museum of Science and Technology in Stockholm. The theme for this year's competition was "masterpiece" and 22 teams of young people between the ages of six and 16, competed for the prize. Sandvik is a proud partner of the First Lego League.

