

Sandvik DX series

Get it straight

Surface top hammer drill rigs



Enjoy drilling Call the shots

At Sandvik, we have worked with drilling solutions for more than 50 years and have learnt a thing or two along the way. So, we design drills that do their individual jobs exceptionally well. But we know a drill is just one element in a much larger process. Therefore, we are constantly exploring the possibilities for process, technology and service development, and for supporting you in your daily work.

Previously known under the name of Tamrock Ranger Rock Pilot, the Sandvik DX drill rigs successfully bring together their heritage with today's most practical drilling innovations.

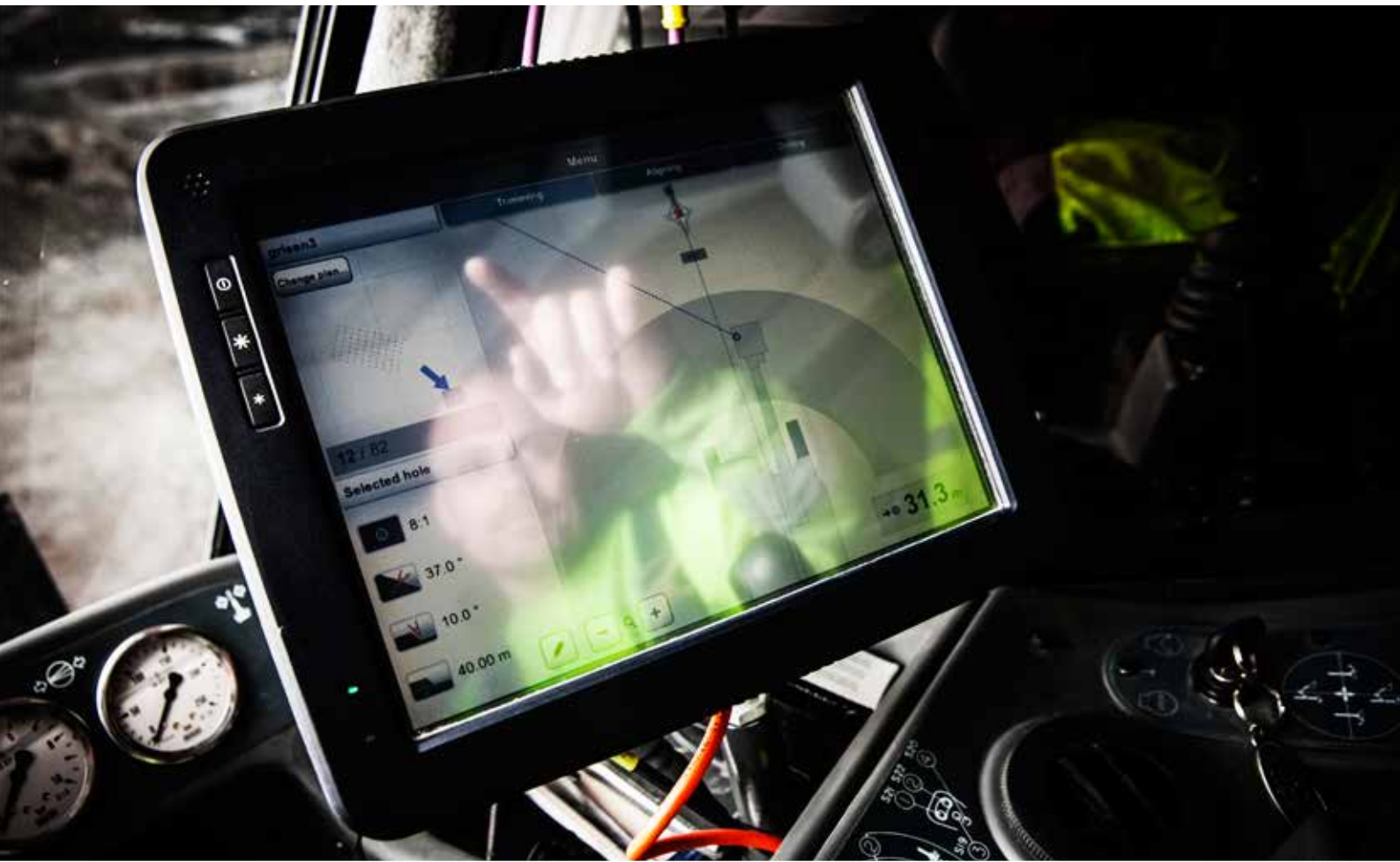
FOR TOUGH CONDITIONS

Sandvik DX series surface top hammer rigs are designed to keep their operational reliability even in the toughest of conditions. All components in the rigs have been carefully chosen from well-known high quality suppliers. The rigs also go through a developed, comprehensive testing process before delivery. Top quality is further guaranteed by the best warranty coverage in the industry.

The DX series rigs are best suited to drill every hole size between **51–127 mm** (2"–5") in applications such as **road cutting, pipe-line drilling and foundation drilling** as well as **production drilling** in medium-sized quarries and open pit mines. They are most often used by construction contractors, mines and quarries but also included in the equipment fleet of rental houses.



At Sandvik, we have worked with a wide range of drilling solutions for more than 50 years.





Stay in command of every situation

The DX series rigs feature strong CAT diesel engines – both TIER3 and TIER4* versions – that deliver pertinent power for the hydraulics and compressor.

TIER4 engine is a CAT 7.1 that utilizes DPF technology with a commonrail-type fuel injection system. One of the main benefits of the new technology is high rotation torque with lower rpm level. This brings improved fuel economy and also less noise to the surroundings.

The TIER4 model is equipped with four separate fuel filters and an additional refuelling filter to guarantee smooth operation. Fuel economy of the TIER4 model is further improved with a hydraulically driven cooler fan that uses energy for cooling only when it is needed.

All DX rigs provide excellent fuel economy and are equipped with a big fuel tank that keeps the machines drilling for more than 12 hours without a stop.

UNIQUE COVERAGE AND STABILITY

Sandvik DX rigs' articulated boom is mounted on a revolving (120° standard/180° optional) superstructure, offering

a huge drilling coverage of 17.6 m² (189 ft²) –26.4 m² (248 ft²) optionally – and letting the operator face towards the drilling spot at all times.

The super-fast Rock Pilot drilling control system automatically adjusts to changing rock formations, sending an optimal amount of power to the rock. Rock Pilot ensures smooth rotation, solid rock contact and fast penetration in different rock conditions.

The rig's stability is rock solid; the power pack is placed crosswise at the rear end of the superstructure to keep counterweight on the opposite side of the boom regardless of drilling direction. This allows easy drilling even in rocky, uneven terrain or on steep slopes.

For difficult conditions, driving, rear jack operation and winch control can be done via an optional remote control box.

Sandvik drills follow the high quality and EHS standards set by ISO9001, ISO14001 and ISO18001.



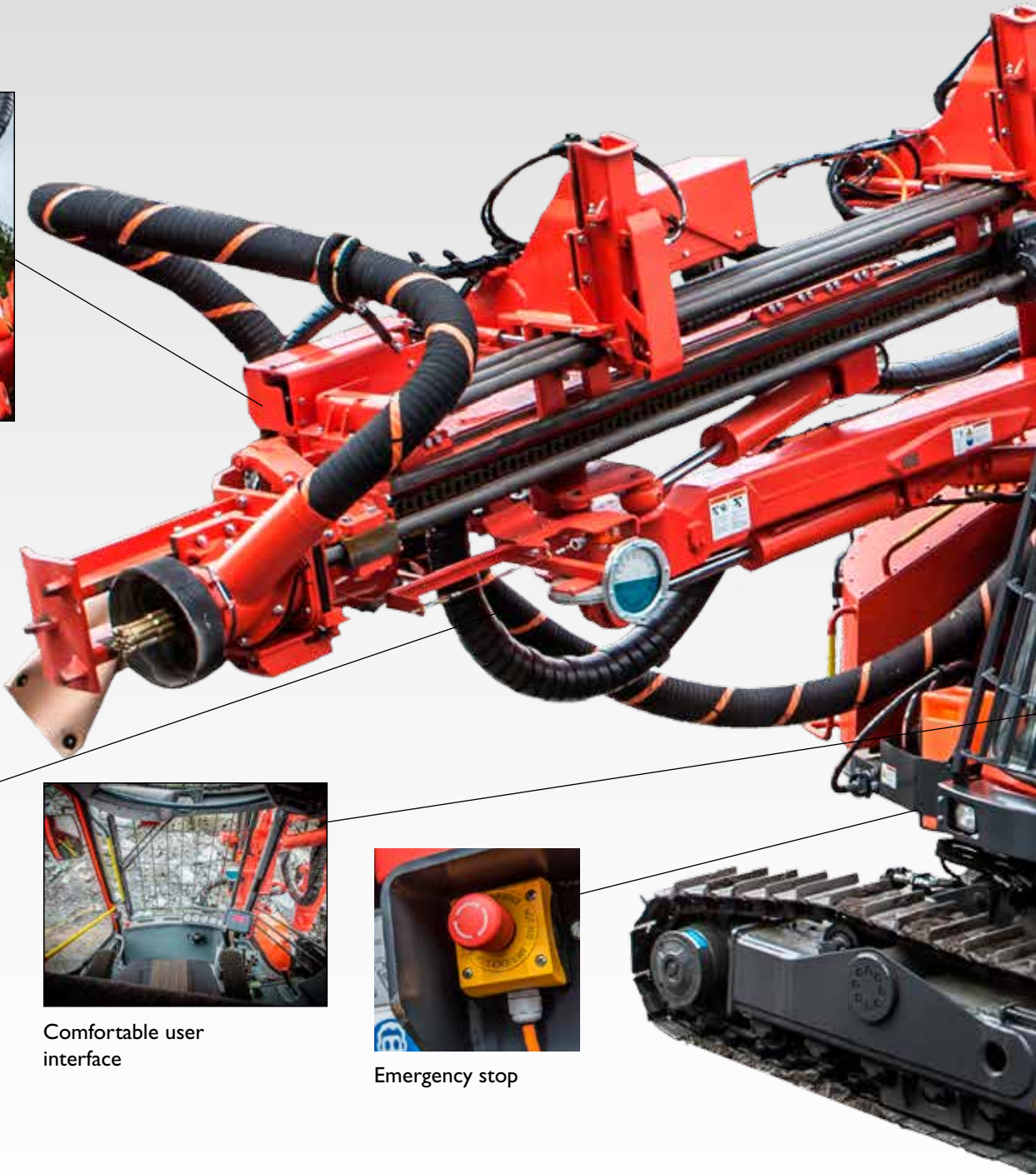
*TIER 4 compulsory for Europe, the USA, and Canada. TIER 3 delivered to other countries.

Sandvik DX series

Proven practical features



Top-rate rock drill



Efficient jaws



Comfortable user interface



Emergency stop

Examples of options:



Sandvik central greasing unit



Reversing camera



Radio and CD-MP3 player



Turnable superstructure
120 / 180 degrees



Sound-proof ROPS and
FOPS certified cabin



Large service doors



Proper warning
signs



TIM3D navigation system



Ground support



First service kit

Technical specifications



	SANDVIK DX500	SANDVIK DX680
Hole diameter	51–89 mm (2"–3 1/2")	64–102 mm (2 1/2"–4")
Rock tools	32, 38 or 45 mm (1 1/4", 1 1/2", 1 3/4")	38, 45 or 51 mm (1 1/2", 1 3/4" or 2")
Rock drill	HL510, 15,5 kW	HL650, 17,5 kW
Engine	TIER 3: Caterpillar C 7, 168 kW/2 200 rpm TIER 4: Caterpillar C 7.1, 168 kW/1 800 rpm	TIER 3: Caterpillar C 7, 168 kW/2 200 rpm TIER 4: Caterpillar C 7.1, 168 kW/1 800 rpm
Flushing air	6,2 m ³ /min, up to 10 bar	6,2 m ³ /min, up to 10 bar
Dust collector	23 m ³ /min at 1 000 mm vacuum H ₂ O	23 m ³ /min at 1 000 mm vacuum H ₂ O
Width	2,45 m	2,45 m
Length	7,2 m / 10,7 m (road transportation)	7,2 m / 10,7 m (road transportation)
Height	3,6 m/ 3,2 m	3,6 m/ 3,2 m
Weight	TIER 3: 14 500 kg TIER 4: 14 700 kg	TIER 3: 14 500 kg TIER 4: 14 700 kg



SANDVIK DX700	SANDVIK DX780	SANDVIK DX800
76–115 mm (3"–4 1/2")	76–115 mm (3"–4 1/2")	76–127 mm (3"–5")
45 or 51 mm (1 3/4" or 2")	45 or 51 mm (1 3/4" or 2")	45 or 51 mm (1 3/4" or 2")
HL710, 19,5 kW	HL810T, 19,5 kW	HL810T, 21 kW
TIER 3: Caterpillar C 7, 168 kW/2 200 rpm TIER 4: Caterpillar C 7.1, 168 kW/1 800 rpm	TIER 3: Caterpillar C 7, 168 kW/2 200 rpm TIER 4: Caterpillar C 7.1, 168 kW/1 800 rpm	TIER 3: Caterpillar C 7, 168 kW/2 200 rpm TIER 4: Caterpillar C 7.1, 186 kW/1 800 rpm
8,1 m ³ /min, up to 10 bar	8,1 m ³ /min, up to 10 bar	9,6 m ³ /min, up to 10 bar
23 m ³ /min at 1 000 mm vacuum H ₂ O	23 m ³ /min at 1 000 mm vacuum H ₂ O	23 m ³ /min at 1 000 mm vacuum H ₂ O
2,45 m	2,45 m	2,45 m
7,2 m / 10,7 m (road transportation)	7,2 m / 10,7 m (road transportation)	7,2 m / 10,7 m (road transportation)
3,6 m/ 3,2 m	3,6 m/ 3,2 m	3,6 m/ 3,2 m
TIER 3: 14 800 kg TIER 4: 14 900 kg	TIER 3: 14 800 kg TIER 4: 14 900 kg	TIER 3: 14 900 kg TIER 4: 15 000 kg

Appreciating accuracy

Respecting safety

ABSOLUTE OPERATOR COMFORT

The Sandvik DX series machines ROPS/FOPS certified cabin offers comfortable, ergonomic working conditions. Drilling is controlled by a single proportional joystick. Quick reach and fast spotting allow drilling more holes from a single set-up.

The DX first-rate air filtration and advanced air conditioning keep the cabin air fresh and clean, and the temperature enjoyable. Visibility from the cabin is excellent thanks to

the large, safety-laminated windows. Among the other DX series features offering a great working environment are adjustable seat, excellent lighting and outstanding noise suppression.

The series also features fully-fledged, high-suction capacity dust collectors.

Their efficient design ensures low level of unwanted emissions to the environment, and brings dust collector noise and power consumption to an all-time low.





The famous ROPS- and FOPS-certified cabin's heavy-duty construction protects the operator and keeps the noise levels well under 80 dB (A).

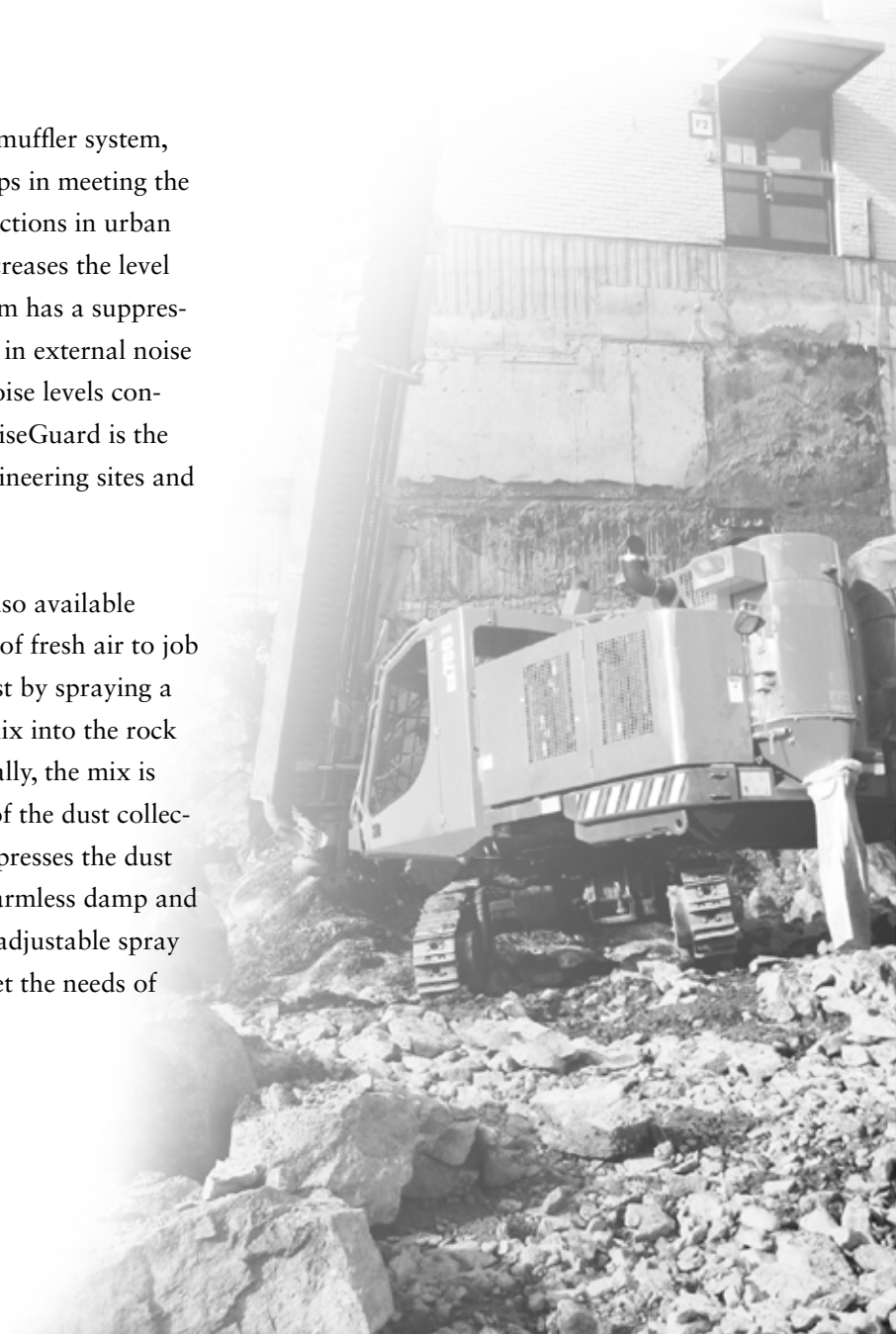


A breath of fresh air

An earful of silence

The Sandvik NoiseGuard muffler system, available as an option, helps in meeting the ever increasing noise restrictions in urban areas as it significantly decreases the level of drilling noise. The system has a suppression capacity of 10 dB (A) in external noise and it also lowers cabin noise levels considerably. The Sandvik NoiseGuard is the perfect choice for civil engineering sites and quarries.

The Sandvik DustMizer, also available optionally, offers a breath of fresh air to job sites. The system binds dust by spraying a water and natural agent mix into the rock drill flushing air. Additionally, the mix is sprayed to the lower end of the dust collector. The resulting mist suppresses the dust and transforms it into a harmless damp and grainy soil. The manually adjustable spray volume is fully able to meet the needs of each individual rock type.



Sandvik rock tools are renown for their great reliability, excellent and even quality and long service life. Providing outstanding tool economy and low total drilling cost, they ensure top-rate hole quality and the best possible blasting results.



SANDVIK TIM3D: PACESETTER IN USABILITY, ACCURACY AND SPEED

Sandvik TIM3D satellite navigation system guides the starting point and the inclination of drilling in accordance with the drilling plan. It is an operator aid consisting of four essential operations: Rig navigation, feed alignment, drilling and reporting.

New TIM3D V2 has a completely new type of user interface, wireless data transfer, and improved compatibility with external systems. Based on multi-satellite RTK GNSS navigation systems, the modern TIM3D V2 navigation significantly improves drilling accuracy, efficiency and productivity in quarrying, road construction and open pit mining applications.

TIM MEASURING SYSTEM IS AVAILABLE IN 4 OTHER MODELS AS WELL

- TIM 5200 feed angle measuring for vertical holes
- TIM 5300 hole inclination measurement for vertical holes and depth measuring
- TIM 6300 hole inclination measurement for inclined holes and depth measuring
- TIM 6500 hole inclination measurement for inclined holes, depth measuring and laser level

A separate GPS aiming device can be added to TIM6300 and TIM6500.





Strong backup gives you business running smoothly

SUPPORT WHERE IT COUNTS. ON THE JOB SITE

Service is, of course, a matter of being available when problems occur. But we at Sandvik prefer seeing it more as a question of being proactive. Investment in preplanned service and tools like Sandvik SanRemo® and Security+ warranty program will help you protect your business from unexpected risks.

SanRemo productivity service offers an easy way of planning and following up production. Based on remote machine monitoring, the service brings accurate real-time job site data easily accessible at <https://mysanremo.sandvik.com>. The service is available in two levels: Gold and Platinum.

Security+ insurance package gives protection beyond the standard warranty period, up to 3 years or to 5000/7000 engine hours. The Security+ comes in five levels: Platinum, Gold, Silver, Diamond and Engine.

Sandvik filter kits offer a tested selection of all filters required for periodical maintenance: engine oil filters, hydraulic oil filters, fuel filters, air filters and breathers.

Sandvik remanufactured components are carefully cleaned and remanufactured. Going through the same inspection process as the new components, they supply a high quality and cost-efficient alternative.

Sandvik service contracts let you concentrate on your main processes. They come in different levels so you can choose a program that meets your particular needs. Sandvik

drill steel, ready-made maintenance kits and genuine spare parts ensure trouble-free drilling and maximize productivity.

THERE IS ALWAYS SOMETHING MORE TO KNOW

The new Sandvik **operator training** concept offers you authorized trainers and a modular curriculum – you can choose which modules suit best for your purposes. You can also choose to practice your skills with Sandvik SimDriller drilling simulator without any risks to people or the rig.

The Sandvik **SimQuarry™** is a smart but practical simulation tool for rock excavation process optimization. It is used to define the best combination of equipment, finetune your excavation and discover the ways of improving your profitability. If you feel that you would need to learn more about the overall quarry or open pit process, the Sandvik **Quarry Academy** is an excellent option. On this training course you will improve your competence in quarry or open pit management.

GLOBAL NETWORK

Sandvik has a wide network of professional service technicians spread in every corner of the world. They are only a local phone call away when you need help.

SANDVIK GROUP

Sandvik is a global industrial group with advanced products and world-leading positions in selected areas – tools for metal cutting, equipment and tools for the mining and construction industries, stainless materials, special alloys, metallic and ceramic resistance materials as well as process systems. In 2011 the Group had about 50,000 employees and representation in 130 countries, with annual sales of more than 94,000 MSEK.

SANDVIK CONSTRUCTION

Sandvik Construction is a business area within the Sandvik Group providing solutions for virtually any construction industry application encompassing such diverse businesses as surface rock quarrying, tunneling, excavation, demolition, road building, recycling and civil engineering. The range of products includes rock tools, drilling rigs, breakers, bulk-materials handling and crushing and screening machinery.

