

# Sandvik DPi series

## Break the limits



# Winners rise from job site experience

## MEETING YOUR NEEDS WITH DEDICATION

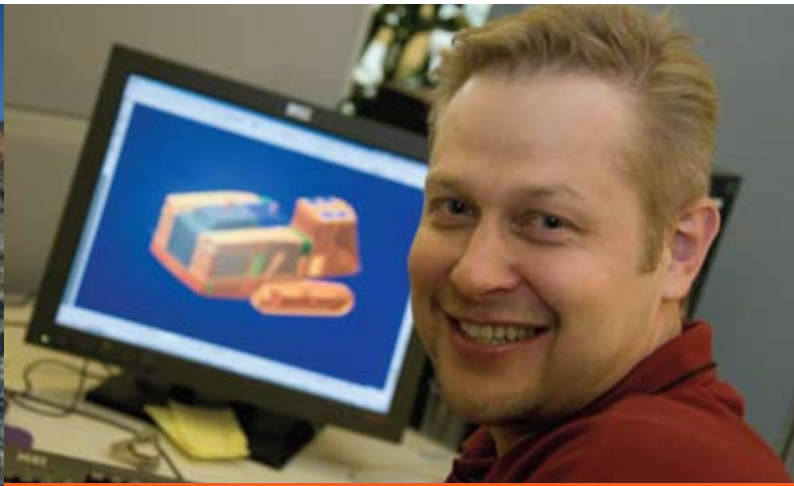
It is essential that you have drills that perform, whenever and wherever needed. At Sandvik, we design drills that do their individual jobs exceptionally well. But we also know that a drill is just one element in a much larger process. Therefore, at this very moment you will find Sandvik specialists hard at work everywhere in the world, exploring the possibilities for process and technology development and supporting you in your daily work.

## PUT AN END TO GUESSWORK

As the offspring of the successful Tamrock Pantera family, the Sandvik DPi series surface top hammer drill rigs are a result of 10 years experience in drilling in quarries and open pits in the hole range of **76 – 152 mm (3 – 6")**. The DPi series also suits well for large construction sites and for wall control and development works.

Fully equipped, the Sandvik DPi series surface top hammer drills come with practical intelligence. It makes them a perfect fit to your entire excavation process. The DPi series puts an end to guesswork: they **produce information** on the condition of the drill and work being performed, letting you make accurate work and service schedules. This, in turn, minimizes unwanted downtime. You can see the drilled meters and holes, diesel and percussion hours and the amount of burned fuel. You will also know when the drills need service and what service parts are needed. The rigs are remote access ready. They simply take the load off you and let you focus on the most important factor: productivity.

Built to last



## LIMIT-BREAKING INNOVATIONS

The DPi series offer you a chance to break your limits. There is no detail that would not be well-thought-out – Sandvik engineers have spent hours and hours on numerous job sites to learn about the requirements of the environment.



Present where it counts. On the job site

Work different. Break the limits



Smart safety grill solution makes window cleaning easy



Excellent visibility



## HIGH POWER DRILLING

Powerful and advanced high frequency drifters make the DPi series an excellent choice for drilling in the hole range of 76 – 152 mm (3 - 6") in quarries or open pits. Together with Sandvik drilling tools, the HF 1560 and HF 800 drifters supply high quality holes and, therefore, excellent productivity.



# Daily performance in focus

## **BRING OUT THE BEST IN YOUR DRILLING**

The Sandvik DPi series surface top hammer rigs are made to break the limits and bring out the best in every driller. An **advanced user interface** with clear screen views for different operations and armrest integrated joysticks make drilling with Sandvik DPi rigs a pure pleasure. **An easily adjustable drilling control system** offers all parameter settings in the cabin. You can either use the preset drilling parameters for different rock conditions, or store your own settings for each of the sites where you work. You can change between the settings in no time and if needed - always return to the original mode. One hole automatic drilling to depth (available optionally) guarantee a stable drilling result. You can also choose an automatic feed alignment and aiming which will offer more drilling time than ever.

Developed based on the DPi series operation system, an advanced simulator training concept offers the possibility to train drilling in an authentic environment. This makes new operators productive from day one and shows the experienced ones how to use their skills and the rig features to full capacity.

## **WHITE CAB - A COOL COMFORT ZONE**

The Sandvik DPi series cabin offers you a real comfort zone. Advanced air conditioning, double roof and the cool white color keep the cabin temperature at an enjoyable level. Selective glass windows and optionally available roller shutters stop glare and make the ride even more pleasant for you. Adding to your comfort is efficient filtration that keeps the cabin air fresh and clean.

The quiet, pressurized and ROPS/FOPS certified cabin excels all regulations. **Large window surface with high-resistance steel grill** offers excellent visibility without sacrificing your safety. You can choose clever and practical accessories for the cab to make your life easy. A vacuum cleaner helps you to keep the cabin air fresh and clean, and a cooler bag keeps your drinks and snacks tasty.



Fits the process like a glove



## TECHNICAL DETAILS

### DP800i

Boom	Telescope
Hole diameter	76 - 127 mm (3 - 5")
Drill steel	45, 51 mm (2", 2 3/8")
Weight	21 000 kg (46 300 lb)
Width	2,5 m (8'-2")
Height	3,2 m (10'-6")
Length	10,5 m (34'-5")
Rock drill	HF800T, 21 kW (28.2 hp)
Tramming speed	1,8/3,2 km/h (1, 1/2 mph)
On-board compressor	9,6 m <sup>3</sup> /min/ up to 10 bar (339 cfm/min/145 PSI)
Dust collector	35 m <sup>3</sup> /min at 1200 mm vacuum H <sub>2</sub> O (1236 cfm/min at 47" vacuum H <sub>2</sub> O)
Engine	CAT C9, 205 kW (275 hp), 1800 rpm

### DP900i

Boom	Telescope
Hole diameter	89 - 127 mm (3 1/2 - 5")
Drill steel	51, 60 mm (2", 2 3/8")
Weight	21 000 kg (46 300 lb)
Width	2,5 m (8'-2")
Height	3,2 m (10'-6")
Length	10,5 m (34'-5")
Rock drill	HL1060, 21 kW (28.2 hp)
Tramming speed	1,8/3,2 km/h (1, 1/2 mph)
On-board compressor	9,6 m <sup>3</sup> /min/ up to 10 bar (339 cfm/min/145 PSI)
Dust collector	35 m <sup>3</sup> /min at 1200 mm vacuum H <sub>2</sub> O (1236 cfm/min at 47" vacuum H <sub>2</sub> O)
Engine	CAT C9, 205 kW (275 hp), 1800 rpm

### DPI100i

Boom	Telescope
Hole diameter	89 - 140 mm (3 1/2 - 5 1/2")
Drill steel	51, 60 mm (2", 2 3/8") MF rods 76, 87 mm (3", 3 1/2") Tubes
Weight	21 500 kg (47 399 lb)
Width	2,5 m (8'-2")
Height	3,2 m (10'-6")
Length	10,5 m (34'-5")
Rock drill	HL1060, 25 kW (33.5 hp)
Tramming speed	1,8/3,2 km/h (1, 1/2 mph)
On-board compressor	14 m <sup>3</sup> /min/ up to 10 bar (494 cfm/min/145 PSI)
Dust collector	35 m <sup>3</sup> /min at 1200 mm vacuum H <sub>2</sub> O (1236 cfm/min at 47" vacuum H <sub>2</sub> O)
Engine	CAT C9, 224 kW (300 hp), 1800 rpm

### DPI500i

Boom	Telescope
Hole diameter	89 - 152 mm (3 1/2 - 6")
Drill steel	51, 60 mm (2", 2 3/8") MF rods 76, 87 mm (3", 3 1/2") Tubes
Weight	22 000 kg (48 502 lb)
Width	2,5 m (8'-2")
Height	3,2 m (10'-6")
Length	10,5 m (34'-5")
Rock drill	HF1560T, 33 kW (44.3 hp)
Tramming speed	1,8/3,2 km/h (1, 1/2 mph)
On-board compressor	14 m <sup>3</sup> /min/ up to 10 bar (494 cfm/min/145 PSI)
Dust collector	35 m <sup>3</sup> /min at 1200 mm vacuum H <sub>2</sub> O (1236 cfm/min at 47" vacuum H <sub>2</sub> O)
Engine	CAT C11, 261 kW (350 hp), 1800 rpm

Optimized center of gravity



### SAVE MORE, POLLUTE LESS

The DPi series technical solutions respect the environment. Compared with the conventional DP series, the new rigs consume 15% less fuel - which means a considerable reduction in CO<sub>2</sub> emissions.

#### Example:

2 500 engine hours with a Sandvik DPi decreases CO<sub>2</sub> emissions by 35 tons!

# Your best productivity partner lets you relax

## **STRONG, NIMBLE AND A FRIEND TO THE ENVIRONMENT**

With the Sandvik DPi, you will receive a fast and nimble rig that is easy to turn. At the same time, their balance is excellent – the **optimized center of gravity** keeps rig balance unchanged even when oscillation is unlocked.

A large fuel tank keeps the Sandvik DPi series rigs drilling for two shifts without stopping. They won't let you down in any temperature: ambient-controlled oil cooler fans for oversized coolers and a fuel cooler take care of that.

The Sandvik DPi series is also designed to be a friend to the environment. Low fuel consumption is achieved with smart solutions like load-sensing compressor pressure control, active diesel RPM control and ambient oil cooler fan control

## **SERVICE AS EASY AS IT GETS**

You can say that service is as easy as it gets in the Sandvik DPi series. Thanks to the **clear layout and gullwing-type service doors**, it is easy to reach the components when they need service and the daily and weekly service points are accessible from the ground level. All oil removals are centralized. Hydraulics will not give you any problems - it is kept very simple and well-organized.

## **NO TIME SPENT FOR BOOTLESS SEARCH**

Even the best of machines have occasional breakdowns. In the earlier days, fault finding could take a long time but now Sandvik provides a way to locate the cause quickly and easily. The Sandvik DPi series rigs supply a self-diagnostics system that excludes the non-functioning circuits and shows where the fault is. The rigs also offer smart and practical **step-by-step troubleshooting instructions**. You just need to follow them to get the machine up and running again.



Gullwing-type doors make service easy



Wide tracks for excellent balance





## GLOBAL NETWORK

Sandvik has 3 500 service technicians spread in every corner of the world. They are only a local phone call away when you need help.



Smart services benefit your bottom line



# Strong backup keeps your 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.

Sandvik's **SanRemo service system** includes a productivity gauge and a GPS locator. The system tells you the load put on a machine and allows you to compare information on different machines. You can plan your production, services, schedules and transportations well ahead. Moreover, Sandvik can supply you with a spare parts recommendation. You will also get a maintenance card that increases the resale value of your drill. SanRemo runs on a standard PC.

The Sandvik **Security+ warranty program**, extends the standard one-year warranty to a two year protection period. You can choose from three levels of coverage: Platinum, Gold and Silver – whichever you feel best suits your needs.

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, simulator training and a modular curriculum – you can choose which modules suit best for your purposes. You can practice your skills in the simulator without any risks to you or the rig. The simulator brings out the best in every driller. Furthermore, simulator training keeps the actual machines in productive work.

The **Sandvik SimQuarry™** is a smart but practical simulation tool for rock excavation process optimization. This tool helps you 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.

# Productivity in Action

Sandvik is a high-technology engineering group with world-leading positions in selected areas – tools for metal working, advanced materials technology, and mining and construction. We employ more than 40 000 people and are represented in 130 countries.

Sandvik Mining and Construction represents one third of the overall Sandvik Group and serves a broad range of customers in construction, mineral exploration, mining and bulk materials handling. Our construction expertise covers quarrying, tunneling, demolition and recycling, and other civil engineering applications. Our mining products and services support customers on the surface and under ground, in all mineral, coal and metal mining applications from exploration to ore transportation.

