

Sandvik DT series

All-around performance



Focus on absolute excellence

RESPONDING TO YOUR TUNNELING CHALLENGES

A tunneling project is a race against time and costs. You have to get the project right and get it right from the start. It requires deep knowledge and years of experience in underground construction, and it requires a proper range of equipment that work, whenever and wherever needed.

The Sandvik DT series tunneling jumbos carry the great heritage of underground drilling that started 50 years ago with Tamrock Maximatics, Paramatics and Minimatics. Through the years one thing has remained the same: The jumbos are of the very best quality, engineered and manufactured to meet the highest standards.

A NEW LEVEL OF TUNNELING PERFORMANCE

The DT series offers a full range of 2 to 3 boom machines for **10–203 m³** cross sections, equipped with a **basket boom** when needed for fluent work process. Modular design makes the jumbos flexible and versatile: They can be used for **fast face drilling** as well as for **mechanized long hole drilling** and **bolting** tasks. The DT series comes in hydraulic, electric and data controlled versions, with a cabin or with a safety canopy.

The Sandvik DT series guarantee cost efficiency via minimized over- and underbreak. Their excellent advance rates and **optimized cycle times** keep your tunneling project in time.

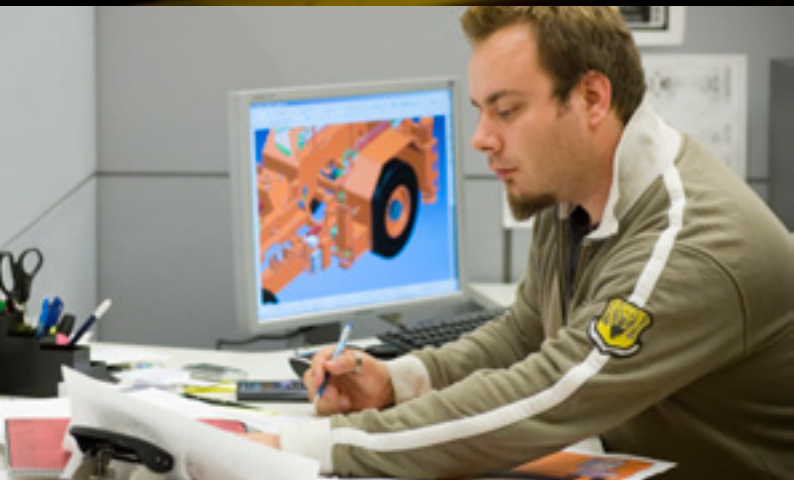
SAFE SOLUTIONS FOR A SOUND FUTURE

As all Sandvik equipment, the DT series is **engineered with safety and environment in mind**. Big tires and safe brake systems bring on excellent stability, advanced safety cabins offer the highest standard of insulation of noise and vibration and large window surface guarantees excellent visibility.

The jumbos, equipped with the latest engine technology, are made of almost fully recyclable materials. A biodegradable oils option is also offered.

The DT jumbos are used world-wide in applications such as road and railway tunnels, hydropower projects, large infrastructure caverns and multi-use tunnels.

Adaptable performance



EXPERIENCE MEANS HIGH QUALITY

Since 1960s, Sandvik engineers have spent hours and hours on a myriad of tunneling sites to learn about the requirements of underground construction and learnt a thing or two along the way. Therefore, we daresay that Sandvik jumbos represent the absolute top class in underground drilling.





Perfect choice for challenging jobs



INSTRUMENTATION

- TMS Drill feed direction, hole depth and penetration rate measuring instrument
- TCAD Drill bit position and feed direction measurement system
- TDATA Automatic control system of boom positioning and drilling functions



Proven quality you can count on

RESULTS THAT SPEAK FOR THEMSELVES

The Sandvik DT jumbos deliver continuous tunnel advance and high quality results in time and in budget. Their powerful, reliable rock drills provide excellent penetration rates and high efficiency in any rock formations. A choice of two different rock drills is available, either with 75 kW (HFX5T) or 55 kW (HLX5/T) power packs. The rock drills include a two-stage stabilizer that ensures steady stability, and are designed with good serviceability and long tool life in mind.

Advanced instrumentation tools speak for themselves as they raise tunneling accuracy onto a new level. High quality drilling reduces overbreak, resulting to a lessened need for concrete lining. For optimal excavation quality, the instrumentation level can be chosen from a range of options.

GUARANTEED PRODUCTIVITY WITH TOUGH SANDVIK TOOLS

The RT300 series of button bits are made of optimum cemented carbide for drilling in an extensive range of rock types. Called grade XT48 (XT for Extra Tough), it has higher density and a more homogenous structure. This means strong material without sacrificing the exceedingly high wear resistance. With Sandvik RT300s up front in your jumbo, you can maintain top production performance with extended bit life, reduced downtime, high productivity and minimized bit costs.

Called Sandvik Alpha, the drill string rod/bit connection features an advanced thread design. The short thread on the hexagonal rods in the tool system results in a rigid, integrated powerpack drill string with superior resistance to bending stresses, improved bit guidance and perfect energy transfer. Providing extended rod life of 30–80% *, longer shank adapter life and longer bit life, Sandvik Alpha reduces total drilling costs by 20%.

* Compared to R32 tools



DT720	DT820	DT1030	DT1130	DT1230
7020 x 11310	8420 x 14210	9800 x 15680	10920 x 18280	11900 x 19100



HIGH POWER DRILLING

Together with the tough and hard Sandvik rock tools, the DT jumbos offer a drilling performance second to none.



TECHNICAL SPECIFICATIONS

DT720	
Coverage	10 - 70 m ²
Rock drill	2 x HLX5 or HLX5 T (20 kW)
Control system	THC, TPC
Weight	24 000 kg* / 27 000 kg**
Width	Tramming/transportation 2.50 m Drilling 3,28 m
Length	12.49 m - 14.35 m
Total input power	135 kW
Engine	MB OM904LA, 110 kW
Tunnel size	7.02 - 11.31 m

DT820	
Coverage	12 - 110 m ²
Rock drill	2 x HLX5 or HLX5T (20 kW) 2 x HFX 5 T (24.5 kW)
Control system	THC, TPC
Weight	26 500 kg* / 32 000 kg**
Width	Tramming/transportation 2.50 m Drilling 3,00 m
Length	14.68 m - 16.40 m
Total input power	135 - 180 kW
Engine	MB OM904LA, 110 kW
Tunnel size	8.42 - 14.21 m

DT1030	
Coverage	20 - 183 m ²
Rock drill	3 x HLX5 or HLX5T (20 kW) 3 x HFX5 T (24.5 kW)
Control system	THC, TPC, DATA
Weight	39 500 kg* / 42 400 kg**
Width	2.90 m
Length	16.74 m - 18.74 m
Total input power	190 - 255 kW
Engine	MB OM904LA, 110 kW MB OM906LA, 170 kW
Tunnel size	9.80 - 15.68 m

DT1130	
Coverage	20 - 183 m ²
Rock drill	3 x HLX5 or HLX5T (20 kW) 3 x HFX5 T (24.5 kW)
Control system	THC, TPC, DATA
Weight	41 200 kg* / 47 100 kg**
Width	2.90 m
Length	16.74 m - 18.74 m
Total input power	190 - 255 kW
Engine	MB OM904LA, 110 kW MB OM906LA, 170 kW
Tunnel size	10.92 - 18.28 m

DT1230	
Coverage	20 - 203 m ²
Rock drill	3 x HFX5 T (24.5 kW)
Control system	TPC, DATA
Weight	44 000 kg* / 48 000 kg**
Width	2.90, 2.99 m
Length	16.74 m - 18.74 m
Total input power	255 kW
Engine	MB OM904LA, 110 kW MB OM906LA, 170 kW
Tunnel size	11.90 - 19.10 m

* Weight without options.

** Weight with basket boom



Well-thought-out features boost productivity

OPTIMIZED COVERAGE

The robust construction and clever mounting of the booms gives the freedom to optimize the drilling sequence. The high-precision booms and feeds have **automatic parallel holding** with quick look-out auxiliaries for accurate hole placement, optimal profiling and minimal overbreak. The booms are optimally shaped to give as **large a coverage area** as possible. A variety of feed lengths, with efficient guides, is available up to 21 ft rods as well as a rod changer for long holes with extension rods.

MADE TO BE MOBILE

The Sandvik DT series jumbos are equipped with integrated heavy-duty carriers and safe brake systems. They are made for tramming even in the toughest conditions. A powerful engine, 4 x 4 wheel drive, high ground clearance and optimized dimensions make the DT series jumbos **fast, stable and mobile**.

They also feature automatic altitude adjustment in diesel engine, heavy-duty axles and excellent cold resistance.

SAFE COMFORT

The advanced, FOPS certified operator cabin in the DT series jumbos offers safe comfort for the operator. Top class air conditioning and heating maintain the temperature at a pleasant level and the cabin's **noise and vibration insulation are of the highest standard**.

The work station design pays special attention to **operator ergonomics**. Improving the ergonomics even further are the elevating cabin (DT10–DT12) and the large windows that deliver good visibility to the drilling spot at all times. In addition, powerful working lights illuminate the tunnel face equally well regardless of the tunnel size.

Fast and stable



Optimized versatility





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 gives you a good night's sleep

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 an investment; effective service is the key to profitable tunneling.

No matter how good a machine is, at some point it will need service. Avoiding lengthy and costly downtime is a prerequisite for a smoothly running operation. The trick really is to be proactive. This is where **excellent machine serviceability and practical features** – such as placement of daily check up points on the ground level – help you keeping up a regular maintenance schedule.

Investment in preplanned service will help you protect your business from unexpected risks. Sandvik **service contracts** let you concentrate on your main processes. They come in different levels so you can choose a program that best suits your needs. For many of our customers, we have tailored planned maintenance programs designed to eliminate unnecessary downtime.

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 train your skills in practice with real machines as well as learn about the theory side to help you in managing maintenance process more efficiently.

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.

