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| **Sandvik jumbos to operate in their home base****Lemminkäinen chooses intelligent Sandvik DT1131i jumbos for Tampere Rantaväylä Tunnel*****Lemminkäinen Infra Oy, the biggest infrastructure construction company in Finland, chose Sandvik DT1131i tunneling jumbos for the excavation of a road tunnel in Tampere, Finland. The Tampere-built jumbos will excavate the 2.3 kilometer long bypass tunnel, a part of highway 12, between Santalahti and Naistenlahti areas.*** The Rantaväylä, “Lakeside Route”, tunnel project aims at developing the central areas of the city of Tampere. The tunnel will decrease the common urban problems caused by the transfer traffic as well as enable the expansion of the city center and residential areas by the lake NäsijärviThe Lakeside Route Tunnel is a part of the highway 12 in Finland. It will consist of two separate tunnels, each of which has two one-way traffic lanes. The tunnel access will be 14 meters in width and 7.5 meters in height. The total length of the tunnel will be 2.3 kilometers, of which 2.22 kilometers will be rock excavation. The remaining part will be concrete construction. The preparation works began in October 2013, and the tunnel is scheduled to open for public in 2017. The budget for the project is 180 million Euros. An alliance of the developer, the contractor and the designers will be responsible for the construction of the tunnel; the parties have signed a common agreement for the target costs and other key performance indicators as well as sharing of the risks in the project. Such an alliance model is a fairly new way of working in the construction business; co-operation and common innovations of the developer, the contractor and the designer are expected to deliver considerable cost savings. The parties of the Lakeside Route Alliance are Lemminkäinen Infra Oy, the City of Tampere, Finnish Transport Agency, construction management and design company A-insinöörit Oy and consulting company Saanio & Riekkola Oy. Sandvik’s deal with Lemminkäinen includes the delivery of two Sandvik DT1131i tunneling jumbos. Lemminkäinen chose Sandvik due to their intelligent rig technology that perfectly meets the challenges of the project as well as due to Sandvik’s comprehensive local service and support. The Sandvik DT1131i is an intelligent, computer-controlled three-boom tunneling jumbo designed for the excavation of 20 – 183 m2 cross sections, including face drilling, bolt hole drilling and mechanized long-hole drilling. The DT1131i’s intelligent automatic functions and advanced drilling technology guarantee extremely precise excavation anddecrease the strength and amount ofharmful vibrations caused by blasting as well as simplify project management. The Sandvik DTi jumbos are available in five models for different coverage needs. All feature, for example, the following:* iDATA control system with full-round drilling automatics, one hole drilling automatics and automatic boom positioning
* Optimized high-frequency RD525 (25 kW) rock drills
* iSURE tunnel management software
* Total station navigation
* Boom location compensation
* Advanced calibration at job site
* Robust round-shaped booms
* Production and process information collection
* Remote access, WLAN connection and web-based data transfer
* Spacious FOPS-certified 3i cabin
* Ergonomically designed work station with sophisticated controls

Sandvik tunneling jumbos are built close by the future Lakeside Route Tunnel. The Sandvik drill rig factory, a part of the Sandvik Group and their Construction business area, has kept the city of Tampere as one of the world’s leading areas in drilling research and development for more than 50 years. Lemminkäinen is a long-term customer of Sandvik and the biggest infrastructure construction company in Finland with operations also outside of the home country; in Sweden, Norway, Denmark, Russia, Estonia, Latvia and Lithuania.

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| **Technical specification in brief** | **Sandvik DT1131i** |
| **Coverage** | 20 - 183 m2 |
| **Hole diameter** | 43 - 64 mm |
| **Hole length** | 3 344 - 6 085 mm |
| **Booms** | 3 x SB150i |
| **Elevated boom support** | No |
| **Feed** | 2 x TF5i 12-21 ft. |
| **Rock drill** | 3 x RD525 |
| **Control and operation system** | iDATA |
| **Length** *(with default feed)* | 17 780 mm |
| **Width** *(drilling)* | 3 860 mm |
| **Height** *(drilling)* | 4 690 mm |
| **Weight** *(standard/with utility boom)* | 44 000 / 48 000 kg |

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**For more information, please contact:**

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**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 2012 the Group had about 49,000 employees and representation in 130 countries, with annual sales of about 99,000 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. In 2012 sales amounted to about 9,700 MSEK, with approximately 3,300 employees.