

Media Release

Voith Group

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Voith complete drive packages to power historic, 42-mile overland conveyor system

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- The overland conveyor system for Atlas Energy Solutions' Dune Express project will haul sand from Texas to New Mexico.
- Voith TurboBelt TPXL coupling drives will power three of the four conveyors, the longest of which is a world record for a conveyor without a mid-belt drive at 16.3 miles long.
- The Voith Turbo team has worked for three years to produce the final drive solutions and meet the project's extensive parameters.

AUSTIN, Texas/YORK, Pa. Atlas Energy Solutions has selected Voith Turbo to supply a total of 21 TurboBelt 800 TPXL fill control fluid coupling drives (including spares) to power 42 miles of conveyor belt as part of Atlas Energy Solutions' historic Dune Express project. ELIN Motoren, a Voith company, will also provide 21 customized low noise electric motors for the project, including spares. Once in operation, the overland conveyor system will serve as a low-impact transport system, taking sand from Texas to New Mexico while establishing a new world record for a single conveyor flight without a mid-belt drive at an impressive 16.3 miles overall single flight length.

"As planned, the Dune Express is enormous," said Roland Hoet, Vice President Sales, HDC Voith Turbo Americas. "Conveyor CV-004, the last in the system, will be the world-record holder, and combined with the three conveyors earlier in the line, this 42-mile conveyor system will be the longest in North and South America, and the second longest in the world."

The system's size is an important factor in the overall project, as it allows the system to positively impact its neighboring communities through the reduction in traffic congestion associated with sand delivery. To achieve this, the Dune Express addresses an explicit need for operations within Texas' oil-rich Permian Basin: To limit highway traffic and road-safety concerns related to such an active venture.

Once in operation, sand will begin its journey from Atlas' Kermit, Texas, facility and the Dune Express will carry material into New Mexico for

storage or delivery. By powering the extensive conveyor system, Voith's TurboBelt 800 TPXL coupling drives allow Atlas to eliminate millions of truck miles driven across the Permian Basin. This results in lower emissions within the communities where the sand would otherwise be carried.

The multimillion-dollar project required significant technical work by Voith, ultimately developing seven different drive package designs for the install. Most significantly, the Voith drives needed to be designed to provide a specified acceleration time of 10 minutes for the conveyors. This extended start-up time was required to maintain belt tensions, especially along the lengthy horizontal curves for two of the system's four belts. This start-up time is significantly longer than most large conveyors, which typically require 60 to 120 seconds.

"Voith's new TurboBelt 800 TPXL fill control couplings are the latest design update to Voith's TPXL family of fill control models," said Hoet. "This new TurboBelt technology uses an advanced oil-filling control system which provides continuous fill-level control through a forward and reverse flow pump. It eliminates the On/Off function solenoid fill and drain valves of the previous technology "TPKL" fill control models."

Commissioning and installation of the full conveyor system, complete with the Voith TurboBelt TPXL coupling drives, is anticipated in Q4 2024. Once complete, the Dune Express will have more than 75,000 tons of storage space for sand.

"The Atlas project is the largest Voith order in North America for complete drive packages," said Hoet. "We are responsible for the main electric motors; the TurboBelt TPXL couplings; the gear reducers; the base frames; the connection couplings, both low speed and high speed; the air-to-oil coolers for the TurboBelt TPXL units; and the control system for the TurboBelts. This is an exciting project for Voith Turbo since it proves that hydrodynamic drive solutions can provide critical torque control for even the largest overland material handling conveyor systems."

To learn more about the TurboBelt TPXL product family of material handling drives, visit the [Voith website](#) for more information, videos, interactive guides and downloads.

About the Voith Group

The Voith Group is a global technology company. With its broad portfolio of systems, products, services and digital applications, Voith sets standards in the markets of energy, paper, raw materials and transport & automotive. Founded in 1867, the company today has around 21,000 employees, sales of \$5.2 billion and locations in over 60 countries worldwide and is thus one of the larger family-owned companies in Europe.

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The Group Division Voith Turbo is part of the Voith Group and a specialist for intelligent drive technology, systems as well as tailor-made services. With its innovative and smart products, Voith offers highest efficiency and reliability. Customers from highly diverse industries such as oil and gas, energy, mining and mechanical engineering, ship technology, rail and commercial vehicles rely on the advanced technologies and digital applications of Voith.

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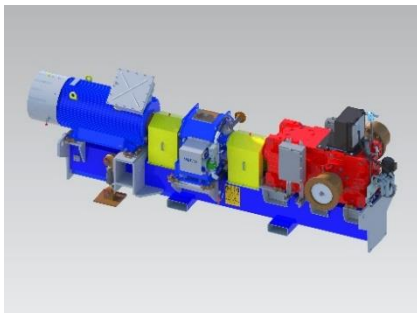
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Voith's TurboBelt TPXL product family including the TurboBelt 800 TPXL fill control fluid coupling drive.



3D image of the complete 900 HP drive package for the Atlas Energy Solutions' historic Dune Express project, including the TurboBelt 800 TPXL fill control fluid coupling drive which will power the conveyor belts and electric motors from ELIN Motoren.

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