

Press Release

Voith Turbo GmbH & Co. KG
Alexanderstraße 2
89522 Heidenheim, Germany
Tel. +49 7321 37-2802
Fax +49 7321 37-7110
www.voith.com

6.4 MW belt conveyor powered by Voith's 1000th TPKL fluid coupling drive

2015-02-17

Drive systems specialist Voith has celebrated the manufacture of its 1000th TPKL fluid coupling, which is currently being shipped to China for use on a 6.4 MW underground belt conveyor drive at a coal mine.

The 3.160-m-long belt conveyor is designed for demanding workloads, and will transport coal uphill at a 14° angle. It is driven by four 1 600 kW motors, with a planned capacity of 4 000 tons per hour.

German-based Voith began production of the TPKL range in 1997 for demanding belt conveyor applications in mining. The coupling provides excellent torque limitation for a smooth start-up of the belt conveyor, while allowing active load sharing with multi-motor drives.

Given its rugged design and proven performance, the TPKL fluid coupling is ideally-suited to the harsh African mining sector, which continues to experience substantial growth year-on-year.

“The TPKL is rich in benefits that ultimately speak to the key business drivers of any major operation and this is where Voith delivers exceptional value. These business drivers include measures such as safety, availability, reliability, production rates and reduced total cost of operation. Further peace of mind comes from the fact that we have a qualified service team that can provide on-site support to our customers around the clock,” says Grant Robinson – Voith Vice President for EMEA Division – Mining and Metals Southern Africa.

Benefits that the TPKL fluid coupling range offers to the African mining sector include;

- Load-free motor run-up

- Smooth start-up of driven machine - up to several minutes
- Shorter periodic distances for subsequent starts thanks to the standstill re-cooling
- Protects the drive in case of an overload
- Dampens torsional vibration in the drive
- Protects system components – increasing service life
- Robust and unsusceptible to environmental influences
- Wear-free power transmission reduces maintenance and repairs
- Automatic load sharing in multi-motor drives protects against motor overload
- Sequential start-up of the motors reduces the load on the supply circuit

Voith Turbo GmbH & Co. KG
Alexanderstraße 2
89522 Heidenheim, Germany
Tel. +49 7321 37-2802
Fax +49 7321 37-7110
www.voith.com

Page 2 of 2

The fill-controlled fluid coupling regulates drive acceleration gently, which protects the belt, prevents downtime and increases the service life of the system. This is a major benefit in Africa, where projects are remotely-located and workers are often under-skilled.

Voith Turbo, a Group Division of Voith GmbH, is a specialist for intelligent drive solutions. Customers from highly diverse industries such as oil and gas, energy, mining and metal processing, mechanical engineering, ship technology, rail and commercial vehicles rely on advanced technologies from Voith Turbo.

Voith sets standards in the markets energy, oil & gas, paper, raw materials and transportation & automotive. Founded in 1867, Voith employs more than 39,000 people, generates € 5.3 billion in sales, operates in about 50 countries around the world and is today one of the largest family-owned companies in Europe.

Contact:

Terry-Lynn McIntosh
Marketing Coordinator
Telephone: +27 418 4000
Terry.Mcintosh@voith.com