

TTGA DRIVES THE FUTURE OF CONVEYING

Ttga Pvt Ltd., supplies lagging systems for gearless drive pulleys for use at Chilean copper mine. Efficient solution for longer, high-performance overland conveyors.

Ttga Pvt. Ltd., New Delhi, received and executed order from ThyssenKrupp India for supply and installation special rubber-ceramic pulley laggings on gearless drive pulleys of overland belt conveyor in Chile. The new overland conveyor at BHP's Escondida copper mine will transport ore from the mine to the processing plant.

The belts will be 1,800 millimeters wide, travel at 6.42 meters per second. The conveyor will use an ST7100-22/8 X grade belt with 6 drives each having an installed drive power of 5065 KW VFD gearless drive. The maximum torque on each of these drive pulleys (width 2100mm x diameter 1962mm) would be as high as 3100KNm and each pulley assembly (including the bearing) weighs about 62500Kgs.



TTGA Pvt. Ltd.

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TTGA in collaboration with partners Rema Tip Top, developed customized lagging system called “Rema Grip CKX – 75 HD”, a unique combination of rubber and ceramic using FEM analysis. Compared to traditional materials, this lagging provides a dramatically increased service life and superb resilience. Rema Grip CKX - HD is the pulley lagging of choice for heavy duty applications with extreme conditions (up to **ST 10000**). Rema Grip CKX - HD provides extremely high wear resistance and flexibility. Thanks to its high tear resistance and tensile strength. *(For more details on the product refer to the attached product data sheet.)*

The installation on the pulley was carried out by cold vulcanizing process using the adhesive BC-3000 and metal primer PR-200 by highly skilled technicians under controlled atmospheric conditions and strict quality control measure to achieve bonding strength in the range of ~ 18 – 20 N/mm as per DIN, the highest industry standard.



NEW PULLEY

SHORT BLASHED



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Application of Primer PR 200



Application of Adhesive BC-3000



Bonding of Remagrip CKX HD

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INSTALLATION OF FINAL KEY SHEET.

TTGA Pvt. Ltd.

FINISHED PULLEY



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