

Sandvik Launches New Generation Of Composite Rollers

Sandvik HR185, the latest generation all-composite roller, is a low-weight, low-noise innovation that answers customers' needs for a superior conveyor component. The new composite rollers deliver significantly more value than competing steel rollers, from lower cost to corrosion resistance in wet and high-salt environments. They are safer, quieter and more economical.

The composite shell material used in Sandvik HR185 rollers is up to 70 percent lighter than the shell used on traditional steel rollers and up to 40 percent lighter than other plastic shell materials on the market. This significantly lower weight enables safer, easier handling and helps reduce the risk of injuries that can occur while installing new rollers or replacing failed rollers during maintenance. In addition, should a roller reach the end of its service life and stop rotating, there is no steel end cap to damage the belt, reducing the risk of belt damage.

Sandvik HR185 rollers are also ideal for noise-sensitive applications, including export terminals and conveying installations near populated areas. They generate more than 50 percent less noise than traditional steel rollers. The natural dampening effect of the composite means Sandvik HR185 rollers minimise noise impact on the surrounding environment.

"In addition to improving safety and increasing productivity, Sandvik HR185 rollers can reduce total cost of ownership by up to 20 percent", says Chris Mitchell, Global Product Line Manager, Sandvik Mining. "They require less time and manpower to install and maintain and their reduced power demand due to a lower rotating inertia means savings in electricity costs. A large, non-rotating end cap covers up to 90 percent of the roller face and helps to limit damage to seals and bearings from dirt, rocks and other material build-up at the roller face further extending the roller life and reducing costs."

Sandvik HR185 composite conveyor rollers feature a composite tube and moulded composite end caps which hold the bearings and seals. Unlike other plastic rollers that rely on the physical properties of a single primary shell material to deliver both strength and abrasion resistance, the

shells of Sandvik HR185 rollers are formed by advanced processes to deliver a two part composite tube that can handle all the running loads of a steel roller at a significantly reduced weight.

Despite their light weight, the new Sandvik HR185 composite rollers deliver durability in demanding medium to heavy duty conveying applications. Suitable for high speeds and large tonnages, the rollers are available in diameters from 152 millimetres to 178 millimetres with bearing sizes from 6306 up to 6310.

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