RDBR-E

Torque Limiting/Load Sharing
Low Speed Backstop
Releasable Under Load

High Torque Density
Greater Reliable Functionality

...through innovative design

- Highest torque capacity for releasable external backstops in the market
- Load sharing over several backstops
- The Stieber RDBR-E limiting / load sharing low speed backstop can really limit the stresses and protect your conveyor belt system

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The RDBR-E roller ramp type backstops are externally mounted, self-contained on a shaft extension with a torque arm. With an internal torque limiter, the RDBR-E is designed for the use on large inclined conveyors, where the release function or load sharing is required. The RDBR-E also protects the conveyor belt system by cutting the peak loads.

The release function allows the tension of a jammed belt to be carefully released using a simple hydraulic pump to actuate the internal hydraulic cylinder.

The RDBR-E components, which offer the possibility to rotate backwards under overload, are fully bearing supported. The unit is capable of performing as many reverse rotations as may be required (within the limits of energy dissipation) to completely unload the conveyor prior to maintenance work being carried out.

When the oil pressure is released, the backstop is automatically re-set to the original slipping torque.

Where multiple backstops are employed, these can be linked and operated simultaneously from a centralised control location. This feature can significantly reduce downtime and ensure that loss of productivity is kept to a minimum.

At present, the torque capacity for the externally mounted backstops reaches a maximum of 350,000 Nm, although this will be extended up to 700,000 Nm in the future. For applications where a higher torque capacity is required, a member of the Stieber sales team will be able to provide guidance on the special solutions which are available.

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