



RDBK

**Torque Limiting/Load Sharing
High Speed Backstop**

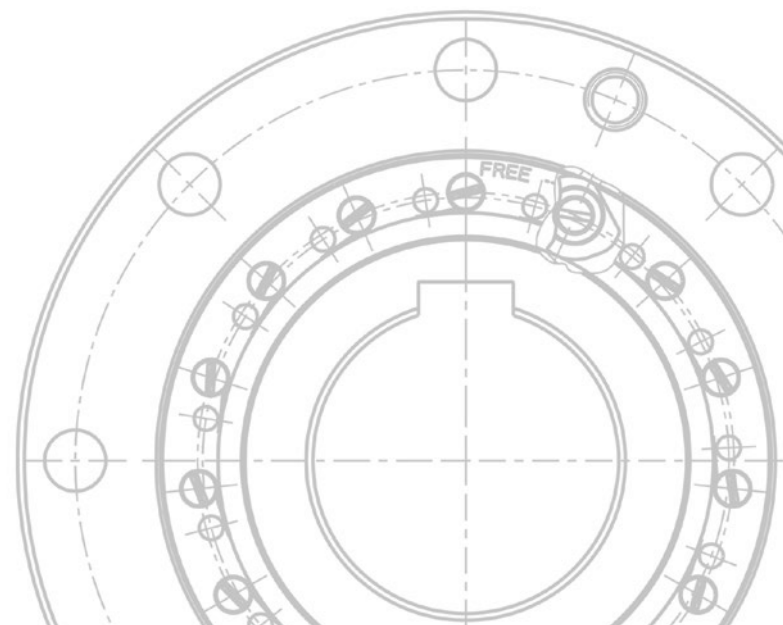
Releasable Under Load



**High Torque Density
Reliable Functionality**

...through innovative design

- Up to 3.5 times more torque capacity within the same volume than other conventional designs
- Load sharing over several backstops
- The Stieber RDBK limiting/load sharing high speed backstop can really limit the stresses and protect your conveyor belt system



The RDBK is a centrifugal lift-off sprag type backstop which is designed for use on the high speed or intermediate shaft. With an internal torque limiter, the RDBK is designed for the use on large inclined conveyors, where the release function or load sharing is required. The RDBK 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.

All internal components which 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 gearbox mounted backstops reaches a maximum of 180,000 Nm.

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.

