Freewheels
SH Series Sprag Clutch Holdbacks with Central Torque Arm

Backstopping
Renold Sprag clutch Holdbacks with Central Torque arms are self contained units ready for mounting on the headshafts, or other suitable driving shafts, of inclined conveyors or elevators to prevent runback.

Features
- High precision sprags create instantaneous action with ZERO BACKLASH
- High quality, high precision heavy duty bearings for arduous applications
- SH clutches designed for LONGLIFE and lower overall operating cost
- Able to accommodate LARGE BORES (up to 20”) and HIGH TORQUE CAPACITY within compact design
- Dimensionally INTERCHANGEABLE one piece central torque arm design for ease of replacement against other brands
- Quick disconnect mounting pins for fast torque arm removal
- Enhanced labyrinth sealing for use in hostile environments
- Grease or oil filled options available
- Axial retaining collars available for all sizes
- Renold Sprag Clutch RE-CONDITIONING SERVICE TO NEW available on all size

Applications
The applications shown above are an inclined belt conveyor and a vertical bucket elevator using conveyor chain. Both applications require the use of a Sprag Clutch holdback, (backstop).

If reverse rotation occurred serious safety problems would be created and possible machinery failure.

To overcome the problem of drive reversal a Renold spring clutch holdback is fitted to the conveyor headshaft and held with a torque arm against stops fitted to the framework of the conveyor.
## SH Series Sprag Clutch Holdbacks

<table>
<thead>
<tr>
<th>Clutch Size</th>
<th>Torque Capacity Nm lb ft</th>
<th>Maximum O’running Speed rpm</th>
<th>Resistance After Run-in Nm lb ft</th>
<th>Bore Range A mm in</th>
<th>B (max) mm in</th>
<th>C mm in</th>
<th>D mm in</th>
<th>E mm in</th>
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www.renold.com
## SH Series Sprag Clutch Holdbacks Interchange Data

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<th>Formsprag</th>
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<th>Marland</th>
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Renold are able to offer complete TORQUE ARM interchangeability to any other manufacturers models on all SH SPRAG CLUTCH HOLDBACKS.

Please use our SH SERIES SPRAG CLUTCH HOLDBACKS WITH CENTRAL TORQUE ARM - APPLICATIONS DATA SHEET, which is available to download from www.renold.com and send your requirements to your nearest Renold Distributor.

For your nearest Renold Distributor visit www.renold.com

### Ordering code

SCSH 1027 CLCH CT

- Sprag Clutch
- Central Torque Arm
- Standard Holdback
- Clutch
- Size

Please supply the following information with the above order code:

1. Bore and Keyway sizes
2. Either Oil or Grease Lubrication

BE SAFE — GET IT RIGHT — FIT RENOLD FOR LIFE
**SH Series Sprag Clutch Holdbacks Typical Applications**

**Aggregates Industry**

Renold SH Sprag Clutch Holdbacks are used in the aggregates industries Worldwide, often in conjunction with high quality RENOLD GEARBOXES, typically on inclined conveyors. The SH Sprag Clutch Holdback is positioned on the end of the conveyor headshaft. If the drive fails or is stopped when the conveyor is loaded the SH Sprag Clutch Holdback instantaneously prevents any runback. This is due to the sprag elements of the clutch being in constant contact at all times with the inner and outer races of the clutch element of the holdback. Resultant downtime is prevented and also any potential accident risk to personnel.

Renold SH Sprag Clutch Holdbacks are ideal for use in the aggregates industry being equipped with high quality seals that prevent contaminants from reaching internal parts and ensuring long unit lifetime.

**Mining**

Renold SH Sprag Clutch Holdbacks are fitted to inclined conveyors used to transport bulk materials in many coal or iron ore mines around the World. A typical example of a mine application is shown here. Fitted to an apron feeder drive in an iron ore mining plant in Canada the SH Sprag Clutch Holdback with Central Torque Arm prevents any runback in the drive, if the drive fails or is stopped. This is due to the sprag elements of the clutch being in constant contact at all times with the inner and outer races of the clutch element of the holdback. Resultant downtime is prevented and also any potential accident risk to personnel.

The high quality components and overall robustness of the Renold SH Sprag Clutch Holdback with Central Torque Arm design is ideally suited to the heavy duty and hostile environment that apron feeders operate in ensuring long unit lifetimes.

**Material Handling**

Renold SH Sprag Clutch Holdbacks are fitted to many inclined conveyors and bucket elevators that transport bulk handling materials around steel works, such as coking coal and iron ore, major docks, moving bulk materials to storage and many other sites around the World.

Whenever a Renold SH Series Sprag Clutch Holdback is fitted it provides the user with complete peace of mind knowing that not only have they purchased a holdback that provides instant runback protection everytime when needed, but is also of the highest quality and the knowledge that a superb back up service is available to enhance their investment even further.
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