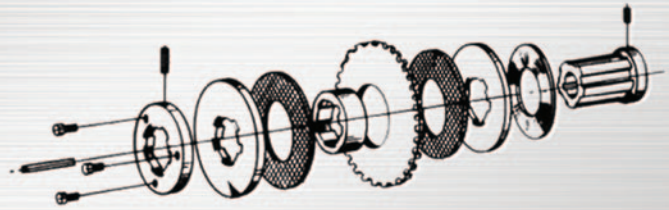
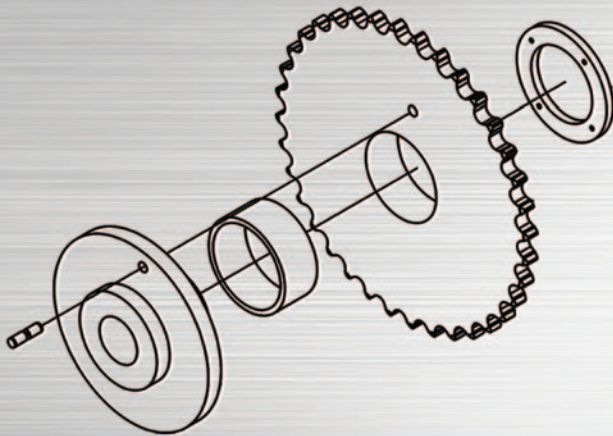


# OVERLOAD/JAMMING PROTECTION



When it comes to protecting the drive system there are multiple components that can be utilized. Each component has specific operational features and drawbacks. Below are the different types of protection we offer.

## Electric Shock Current Monitor

An electric shock Current monitor will detect and sudden spikes in the motor draw. These spikes can be due to overloading of the conveyor or a jam. The monitor senses these spikes and trips, shutting power off to the drive. The monitor can be installed into the controls for ease of access. The Monitor can also be adjusted giving the customer control over how the conveyor is operated.

## Torque Limiter

A Torque Tamer can be attached to the head shaft and the driven sprocket and monitors the torque on the drive components. Once the torque exceeds the max setting the Torque Tamer will slip allowing the driven sprocket to spin freely minimizing damage to the motor and reducer. The torque tamer has some adjustment but due to the design wear parts will need to be replaced periodically.

## Shear Pin Hub Assembly

The Shear Pin Hub Assembly can be attached to the head shaft and the driven sprocket. The Shear Pin's neck size is determined based on the max torque the drive components should not exceed. If an overload or jam occurs causing the torque to exceed the Shear pin allowed torque the shear pin with shear allowing the driven sprocket to turn freely. Once the overload or jam is cleared a new shear pin can be installed into the hub assembly and the conveyor can be restarted.

## Motor Overload Clutch

This device can be mounted between the motor and the Reducer. The clutch can be set to a torque value and when that value is exceeded the clutch disengages and allows the drive to spin freely. Once the clutch is disengaged the drive will need to be stopped and run in reverse to reengage the clutch. This being a mechanical component wear parts will need to be replaced periodically.

## Other Protections

Transcon is not limited to the above types of protection. If a customer wishes to use a different type or certain brand of overload protection Transcon's engineering staff can be utilized to design the correct system for the customer's conveyor.



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