

The Wedgegard® System for Water Applications

The most effective method of protecting rotating machinery from overload is a simple shearpin. Proved to be reliable for long term protection on slow running / high torque drives, a shearpin gives full strength directly as a frictionless drive load.

However the conventional round shearpin has its drawbacks with the removal of the broken halves and the necessary clearance for fitting which allows pin fatigue, fretting and uncertainty in load sharing.

The Wedgegard System was designed to overcome these problems and also to meet the increasing demands for safety and minimum downtime required by today's process plant.

Based upon a wedge shaped pin, this overload system is a completely new concept in shearpin protection.

Howdon can make any of its standard units in 304SS or 316SS or as the below unit, which has a trip pin on the back of the hub to trigger a switch, we can offer bespoke units to suit your requirements.



Wedgegard has these advantages over other overload devices.

- Easy access - drive reset in minutes.
- Wedge construction gives maximum rigidity with no backlash. Ideal for indexing or reversing drives.
- Clamping screws give positive axial location. Shear neck cannot be displaced from correct position between flanges.
- Equal load sharing with multiple pins on high torque drives. Very high capacity within compact dimensions.
- Shear necks are standardised and colour coded, giving safe, tamper proof repeatability and spares economy.
- "Fail-safe" under all conditions. Not affected by changes in temperature or humidity. Ability to release not dependent on mechanism lubrication.