



Polychem



**SMARTGUARD™**  
COLLECTOR MONITORING SYSTEM

## NOW YOU CAN PREVENT SYSTEM FAILURES.

Polychem Systems, Division of Brentwood Industries, has set the standard for performance and reliability in non-metallic chain and flight sludge collector systems for more than 30 years. Now Polychem is proud to introduce SmartGuard™, a revolutionary new fault detection system for water and waste water collector systems. This cost-effective approach helps to avoid disastrous system crashes or failures and the significant expense that goes with them.



### Early detection saves you time and money.

Polychem's SmartGuard Collector Monitoring System identifies system overloads that can't be detected by a traditional shear-pin or torque monitoring device. SmartGuard monitors regular motion of lower-rear idler sprockets, warns of potential danger, and shuts down the system before chain, attachment link, or flight damage occurs.

### Smart parts in the smartest locations.

SmartGuard's Collector Monitoring System intelligence sets it apart from other monitoring systems. Plus, SmartGuard's strategic placement at the head-shaft for flight misalignment and at the lower-rear idlers for motion monitoring, provides improved system protection against equipment damage.



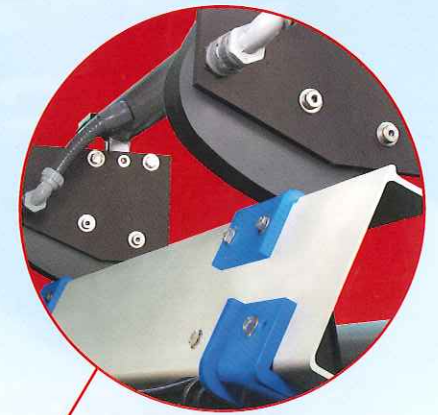
#### SmartGuard control panel.

Optional applications include an add-on panel that complements the current control system, or a full panel that works as a total control solution.

#### Control up to six mechanisms, including:

- Longitudinal collectors
- Cross collectors
- Scum pipes
- Screw conveyors

Operating multiple collectors with one control panel reduces the average cost of the system. Various options are available, depending on your needs.



#### SmartGuard Flight Monitoring

As flights pass over the head-shaft, cams are tripped, sending signals to the control panel for data monitoring.



#### SmartGuard Sprocket Motion Monitoring

Should sprocket loss of motion occur, the collector system automatically shuts down before the equipment is damaged.

### Protect against costly damage from:

- Foreign objects dropped in the clarifier
- Concrete movement
- Irregular sludge loading
- Flight misalignment





## SmartGuard Collector Monitoring System at a glance:

- Protects against costly system failures
- Identifies flight misalignment and monitors sprocket motion
- Shuts down the system *before* equipment damage occurs
- Simple to use and install
- Offers reliable system intelligence
- Expertly engineered
- Monitoring systems available for sprocket motion monitoring, flight misalignment or both
- Adaptable control panel
- ISO certified

Contact Polychem Systems to learn more.  
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