FIREFLY Con erGuard™

Fire protection solution fo vors

WHY PROTECT A BELT CONVEYOR

Every year, fires occur in belt conveyors worldwide. A fire in a belt conveyor is often hard to extinguish and can spread very quickly. In the worst case it can spread to surrounding material stacks and could last for weeks, causing major loss of revenue and production downtime.

Regardless if you transport wood chips, biomass or other material, a fire in your belt conveyor can occur due to several reasons: friction in bearings, mechanical breakdown or burning material put on the belt, are just a few examples. Because a fire in a belt conveyor can spread very rapidly, a fast acting fire protection system that also can withstand the tough conditions in and around a belt conveyor is required.

Until today, no one has succeeded to equal the performance and reliability of Firefly's products and solutions. Firefly ConveyorGuard™ is the company's solution to prevent fires in belt conveyors as well as other types of conveyors within the process industry.

NEWS REPORT

"August 2011 - At its peak, some 50 people from 10 rescue services took part in helping to put out the fire. Five helicopters have been used to drop water on the fire (…)."
"Intensive work is in progress to recommission the mill, although this process is unlikely to be complete until early September. Cleanup work and inspection of the shaker shoe and belt conveyors is in progress. Damping down and inspection of the sawdust heaps are ongoing, and charred chips damaged by the fire are being removed. The total cost of the fire is estimated to be hundreds of millions (….)."

FIREFLY ConveyorGuard™ SOLUTION

To detect and suppress a fire and stop the conveyor belt as quickly as possible is the purpose of the Firefly ConveyorGuard™ solution. This is why a Firefly safety system always consists of three main integrated functionalities: detection, suppression and control.

By integrating different techniques into one solution, Firefly provides optimal safety for the protection of conveyors.

FIRE TESTED FOR FREE-STANDING CONVEYORS

The system has been fire tested against the test protocol for free-standing conveyors, DFL 180719-1289-4 and verified by DNV.

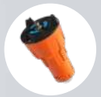
For more information on our certifications and approvals, please visit: www.firefly.se/en/company/approvals

OPEN AREA FLAME DETECTORS

High performance flame detectors for fast and reliable detection of flames along the conveyors.

WATER MIST SUPPRESSION

Quickly activated water mist system located along the conveyors. Remarkably fire suppression capabilities utilizing a small amount of water.



SPARK AND HOT PARTICLE DETECTORS

Millisecond detection of hot particles, sparks and flames in the drop chutes.

FULL-CONE WATER SPRAY EXTINGUISHING

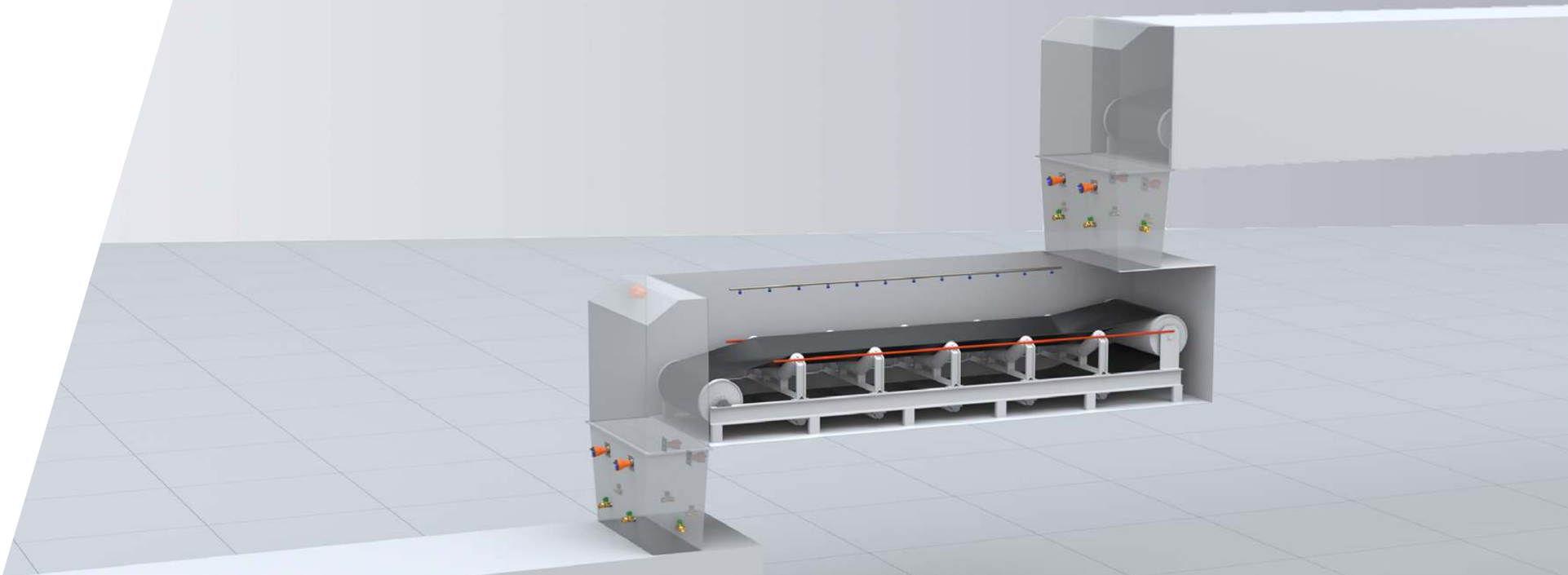
Powerful extinguishing designed to penetrate material flow and extinguish sparks and hot particles in the drop chutes.

LINEAR TEMPERATURE SENSING (LTS) CABLE - OPTIONAL

Temperature detection along the rollers etc.

A UNIFIED CONTROL SYSTEM

Enabling a good overview of all protected zones. Operators will control the system via IntuVision,™ an intuitive user interface with a colour touch screen, which comes as a standard in every Firefly System.



ABOUT FIREFLY

Firefly is a Swedish company that provides industrial fire prevention and protection systems to the process industry worldwide. Since 1973, Firefly has specialized in creating customized system solutions of the highest technical standards and quality. Based on customer needs and research, Firefly has developed and patented products and solutions, creating a unique portfolio of innovative products and system solutions to increase the level of safety and production output.

The Firefly quality management system is certified according to ISO 9001 and EN ISO/IEC 80079-34. Firefly's products hold national and international third-party certifications through FM, VdS, CSA, DNV, LCIE Bureau Veritas, Delta, and RISE among others.

For more information on our certifications and approvals, please visit: www.firefly.se/en/company/approvals

Please contact us if you have questions about fire and explosion risks within your process, our fire preventive team will be happy to share their knowledge and experience.

AS A FIREFLY CUSTOMER YOU RECEIVE

- A partnership with our fire prevention teams around the world.
- Digital progression based on robust safety systems.
- Technical innovation in fire prevention and protection.
- Fire prevention and protection through certified technology.

JOIN THE FIREFLY CIRCLE OF SAFETY

WE HAVE FIREFLY USERS FROM MULTIPLE INDUSTRIES ALL OVER THE WORLD

Over 13 000 unique fire protection solutions worldwide

Firefly users in over 80 countries

■ Firefly users

Firefly's products are available with the following certifications and approvals:

For information on the certifications and approvals each product holds please visit:
www.firefly.se/en/company/approvals

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PROTECTION SYSTEMS FROM firefly