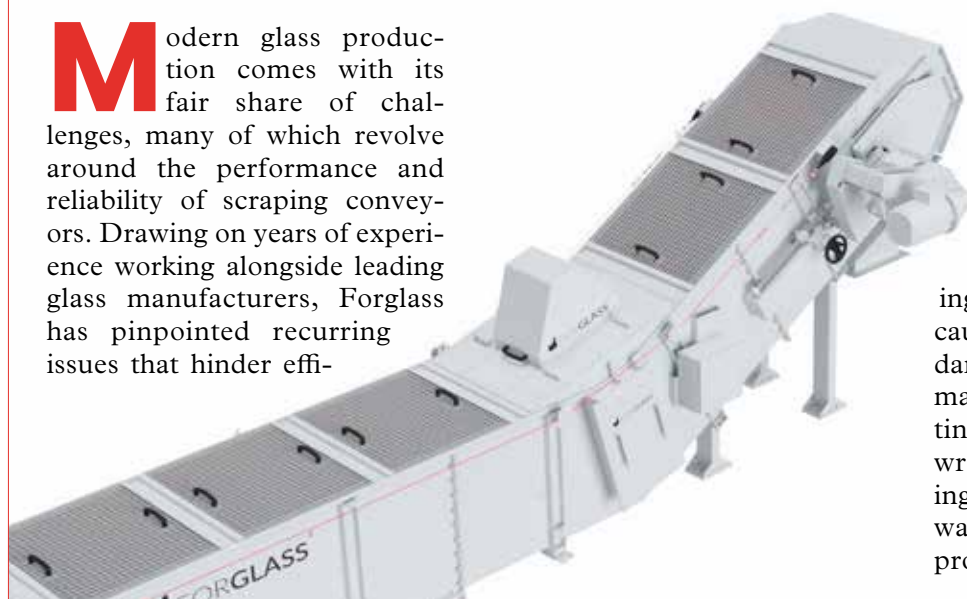


# A revolution in cullet return: **FORGLASS** SMARTSCRAPER®

Designed to tackle key challenges in glass production, the FORGLASS SMARTSCRAPER® is an advanced cullet return system that's equipped with adaptive speed control, overload protection and a fines-free system. It enhances efficiency, reduces maintenance and cuts costs - providing smart, reliable performance for glass manufacturers who want to go the extra mile.

**M**odern glass production comes with its fair share of challenges, many of which revolve around the performance and reliability of scraping conveyors. Drawing on years of experience working alongside leading glass manufacturers, Forglass has pinpointed recurring issues that hinder effi-



ciency. Among these are the rapid wear-deterioration of key components like chains, resulting in high maintenance demands and associated costs. There's also the threat posed by foreign objects accidentally falling into the system, potentially causing significant mechanical damage. Additionally, the formation of cullet fines -those tiny, dust-like particles- can wreak havoc on water cooling systems and lead to costly waste disposal problems. To provide a comprehensive solu-



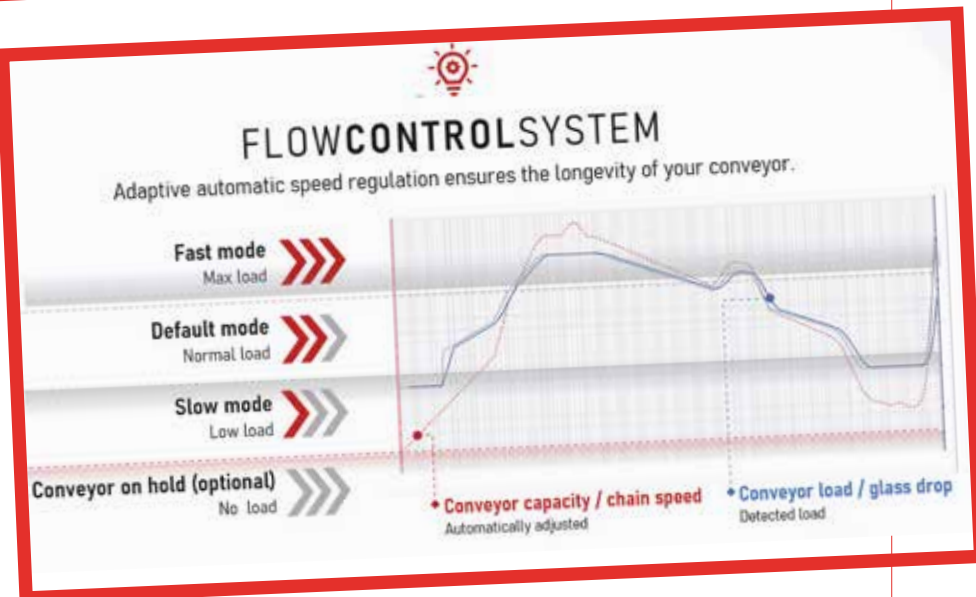
Glass fines – production waste  
up to 300t per year  
up to 50k € for removal and disposal

Fines free – special design  
complete elimination of  
production waste from the  
output product

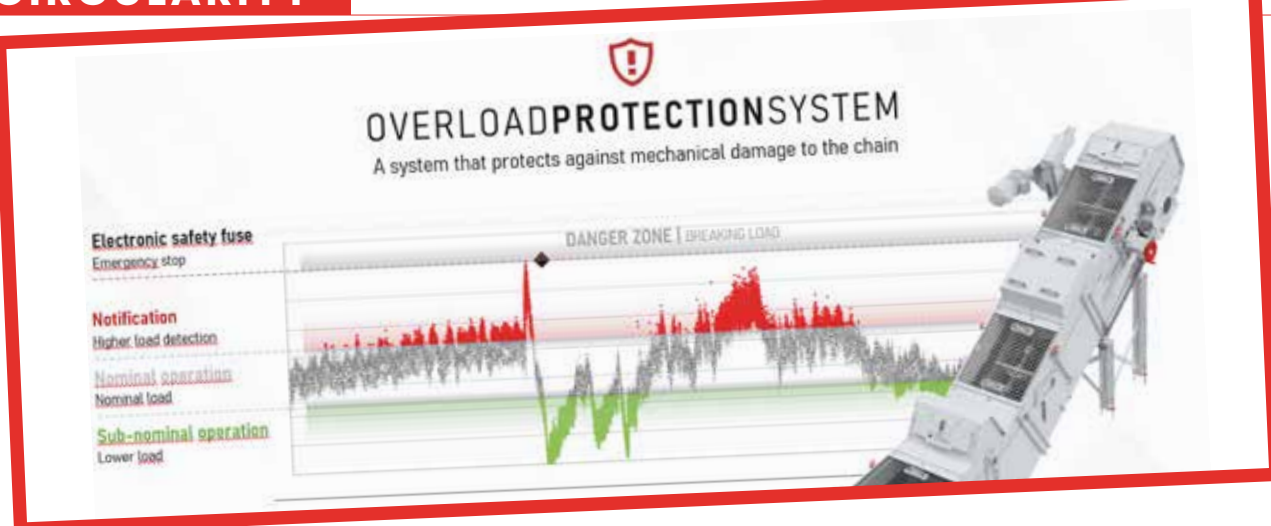
tion, Forglass developed the SMARTSCRAPER®: a highly intelligent, adaptive conveyor system designed to meet the evolving demands of today's glass industry. It significantly enhances both reliability and performance, offering tangible savings and operational improvements.

### THREE ADVANCED SYSTEMS, ONE SMART CONVEYOR

At the heart of the SMARTSCRAPER® are three advanced subsystems, each



## CIRCULARITY



addressing a major industry concern:

### FLOW CONTROL

The Flow Control System dynamically adjusts conveyor speed based on real-time load conditions. Heavier loads trigger faster speeds, while lighter loads prompt a reduction. This minimizes wear on the system, ensures stable performance across speed ranges and lowers energy consumption.

### OVERLOAD PROTECTION

Equally vital is the Overload Protection System. A network of sensors continuously monitors operations, ready to shut down the conveyor instantly if a disruptive object -like a mould- enters the system. This quick reaction prevents major damage and extends

equipment longevity.

### FINES FREE

Then there's the Fines Free System. Unique to the SMARTSCRAPER®, this innovation prevents the formation of cullet fines altogether. For one client, this feature alone led to annual savings of up to EUR 50,000 by removing the burden of fine particle waste.

### SO WHAT DOES THE SMARTSCRAPER® OFFER?

The SMARTSCRAPER® doesn't stop there. It includes a proprietary chain tensioning mechanism, developed exclusively by Forglass. Optional enhancements, such as a steam extraction system or remote access for real-time monitoring and control, add even more value. Users can track system

performance and manage operations from virtually any location, increasing flexibility and responsiveness. In combining smart technology with practical design, the Forglass SMARTSCRAPER® sets a new benchmark for cullet return systems - offering a forward-looking solution to age-old industry problems. ■

 **FORGLASS®**

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