HEROES
OF SPILLAGE CONTROL

THE NEW DIGITAL STARCLEAN®S³

Our unique smart scraper with an electric drive, combined with our smart cloud dashboard, enables predictive maintenance of wear elements through preventive damage detection on the conveyor belt. This digital innovation gives the scraper the ability to self-regulate wear and tear while also ensuring a constant pretensioning force – completely automatically.

Designed according to the principle of **"detect - react - protect"**, our innovation enables continuous contact-based inspection of the conveyor belt, thus enabling predictive maintenance.

Schulte Strathaus GmbH & Co. KG
Runtestraße 42
59457 Werl, Germany

Fon +49 (0) 2922 9775-0
info@starclean-solutions.de
www.starclean-solutions.de

ADVANTAGES AT A GLANCE

◊ Continuous inspection
◊ Damage limitation
◊ Efficient use of resources
◊ Improved operating reliability

◊ Prevention of unscheduled conveyor belt downtimes
◊ Transparent data analysis

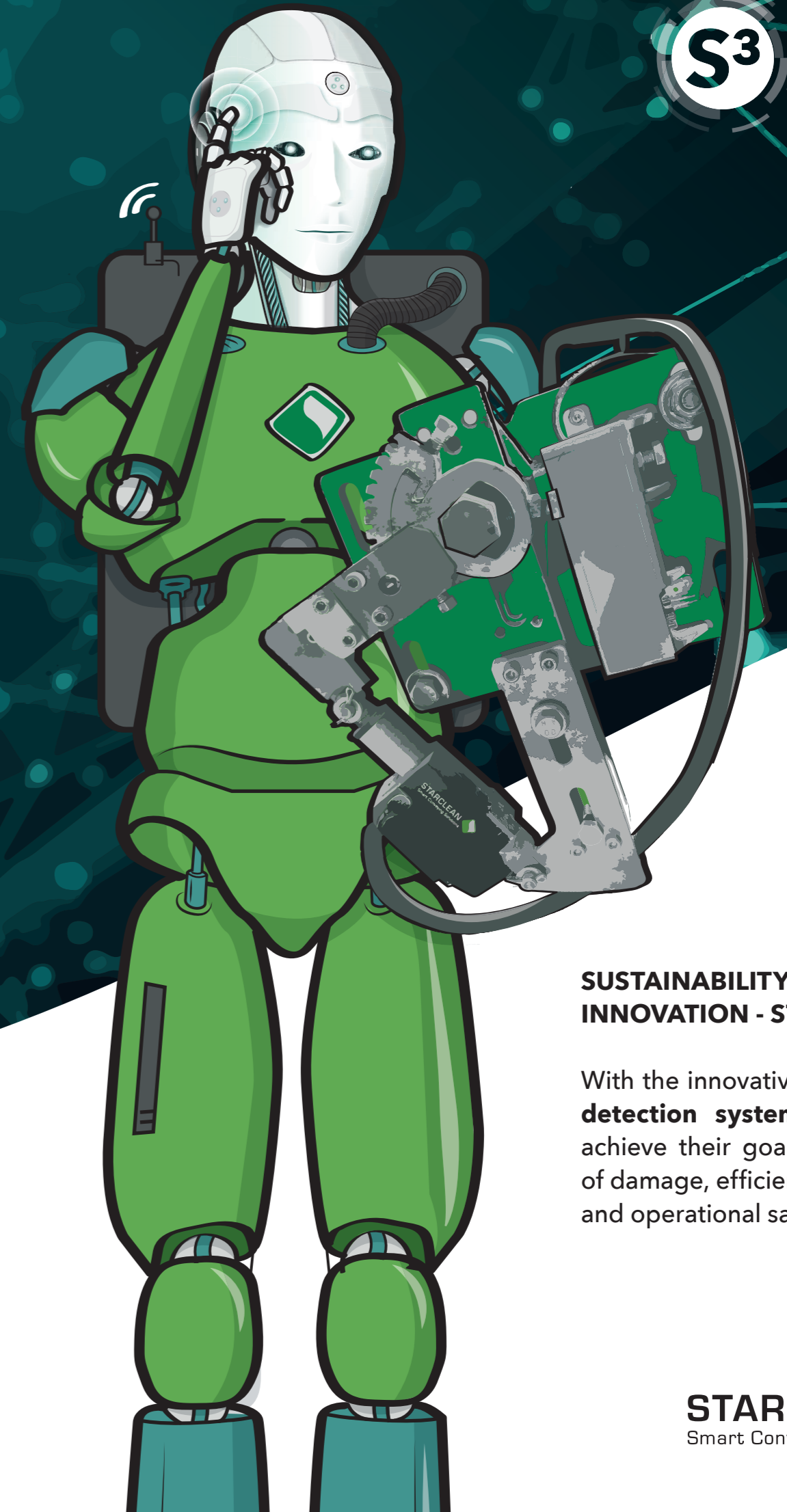### THE MODULES

◊ Scraper
◊ Motorization set
◊ Scraper Intelligence Module (SIM)

◊ Measuring roller with sensor system
◊ Belt damage detection
◊ LTE Edge Controller/Cloud

PRODUCT
VIDEO

SUSTAINABILITY THROUGH INNOVATION - STARCLEAN®S³

With the innovative **S³ belt damage detection system**, our customers achieve their goals: early detection of damage, efficient use of resources and operational safety.

STARCLEAN
Smart Conveying Solutions
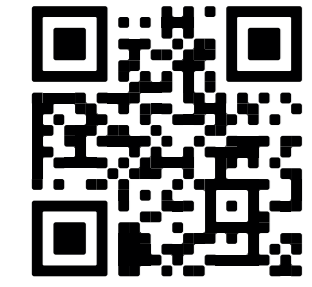
THE MODULES

Scraper Intelligence Module (SIM)

Motorization set with S³ sensor system
Drive on one side and on both sides

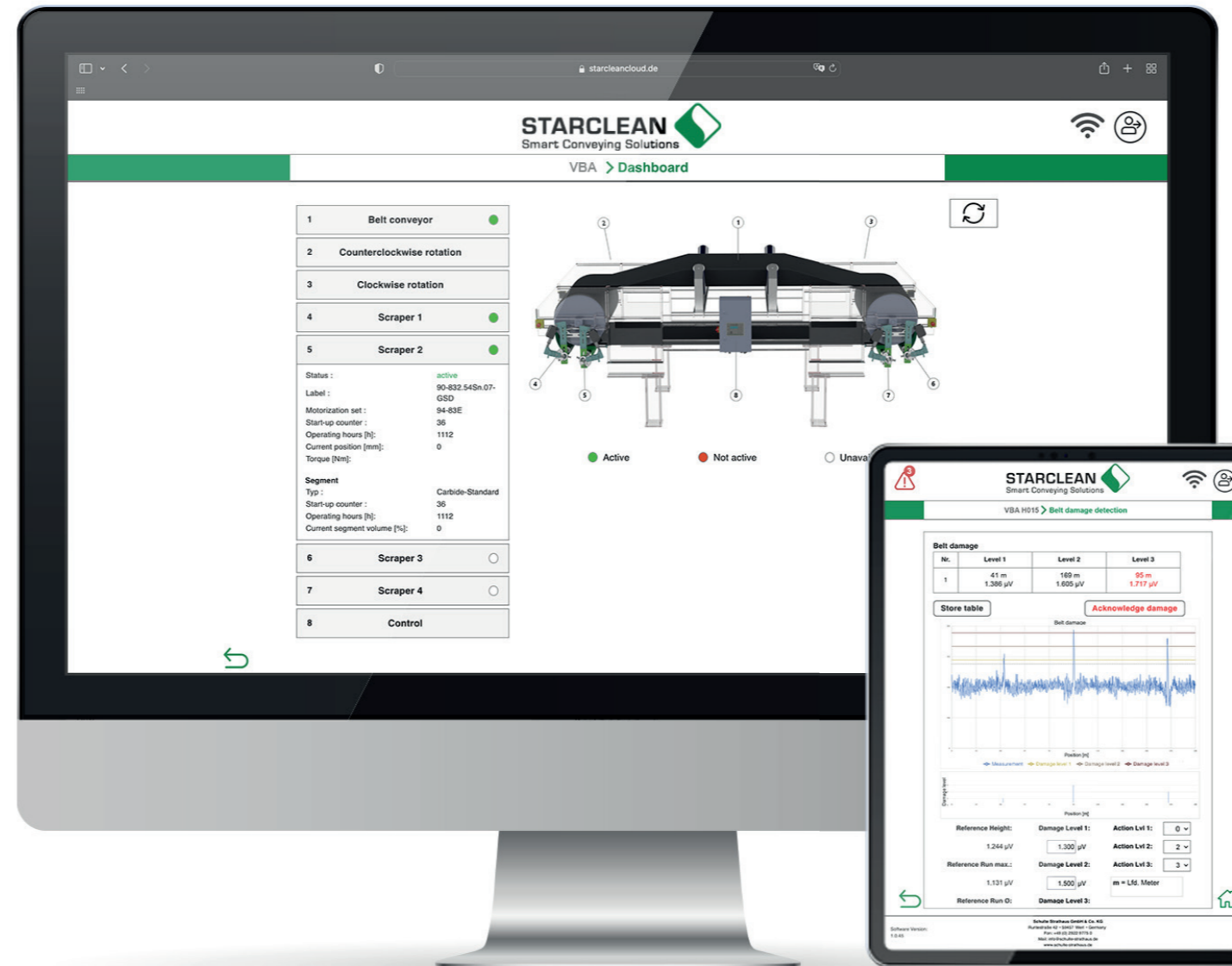**Scraper**
Primary or secondary

Measuring roller with sensor system

TECHNICAL APPLICATIONS

◆ Automatic or manual engagement and disengagement of conveyor belt cleaner
◆ Automatic readjustment of the pretension
◆ Wear indicator and warning
◆ Constant belt damage detection by the secondary scraper
◆ Operating hours display for belt conveyor, scraper, and wear parts
◆ Switch-on, engagement and disengagement counter
◆ Indicator of conveying speed and running direction
◆ Control for up to four scrapers
◆ RFID access with rights allocation to protect against unauthorized access
◆ Information about the belt conveyor, the scrapers, and the control system
◆ Error messages and faults
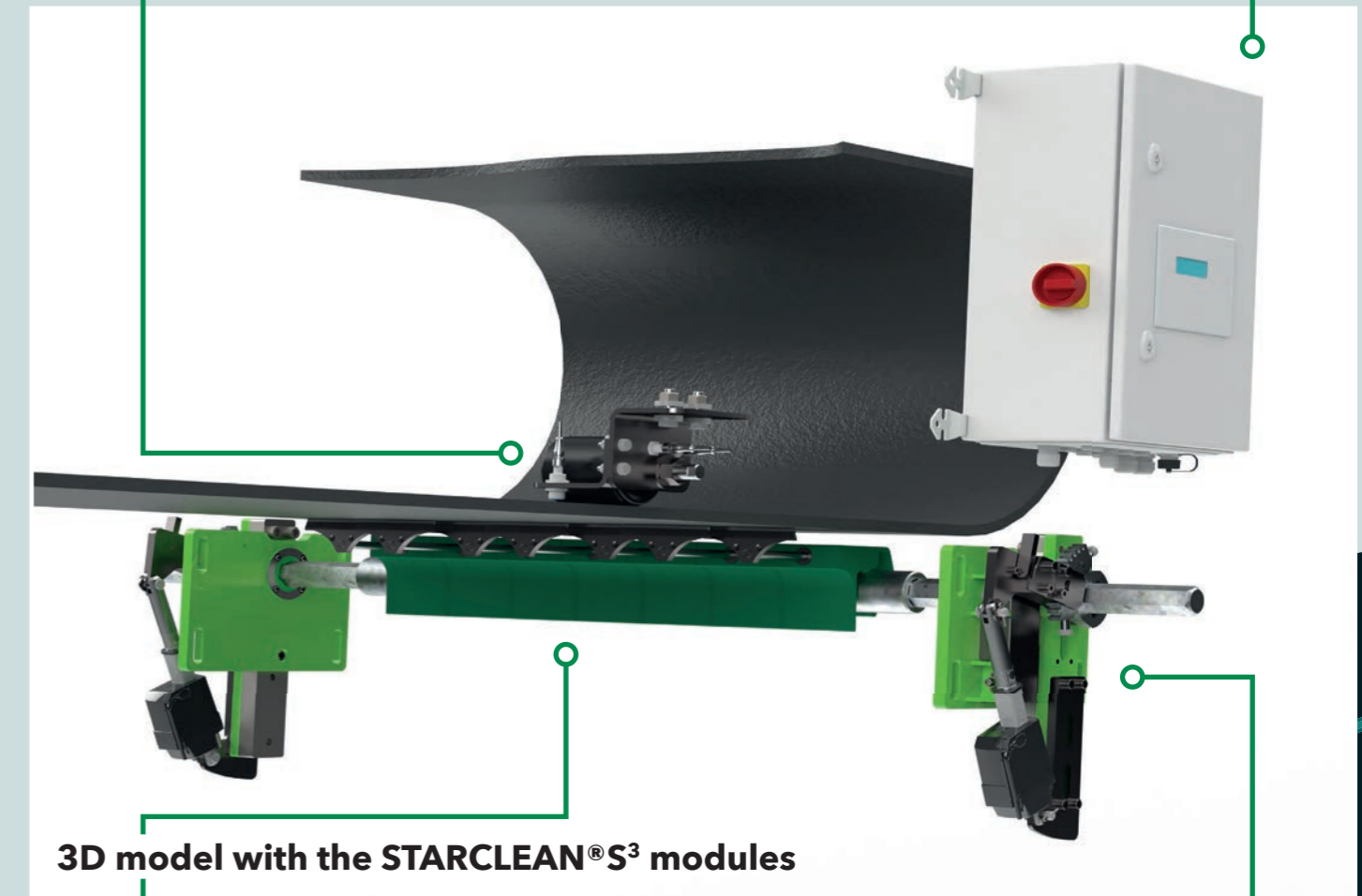
STARCLEAN®S³
DASHBOARD/CLOUD

WHAT THE CLOUD CAN DO

◆ Continuous monitoring of the conveyor belt
◆ Classify the damage
◆ Define the internal damage level
◆ Initiate action if belt is damaged
  (disengagement, send information, alarm, you determine the function)
◆ Detect the position of belt damage
◆ Record belt characteristics
◆ Smart, cloud-based dashboard
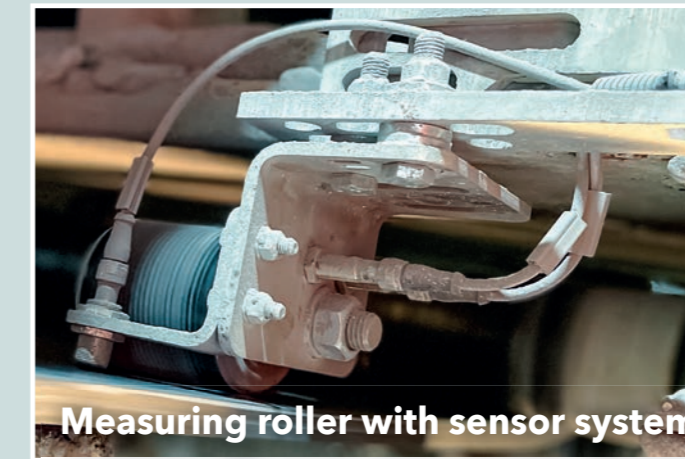
Measuring roller with sensor system

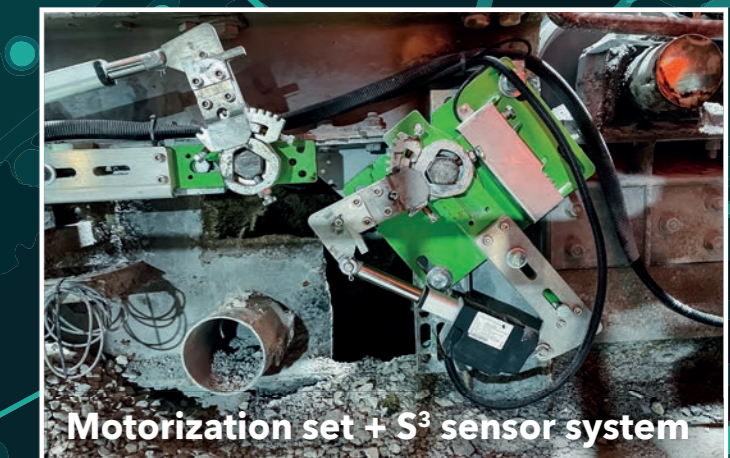Scraper Intelligence Module

3D model with the STARCLEAN®S³ modules

Secondary scraper

Motorization set + S³ sensor system

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