

Save lives with the **U-Tech GSG 202A safety system** for bailing presses and shredders



U-Tech GSG 202A safety system

Unfortunately, accidents do happen. It makes matters even worse for plant managers when they get published in the press. Why not simply eliminate these hazards and create a safer environment for your workers? How? With the personal protection system from U-Tech.

Whom does it protect?

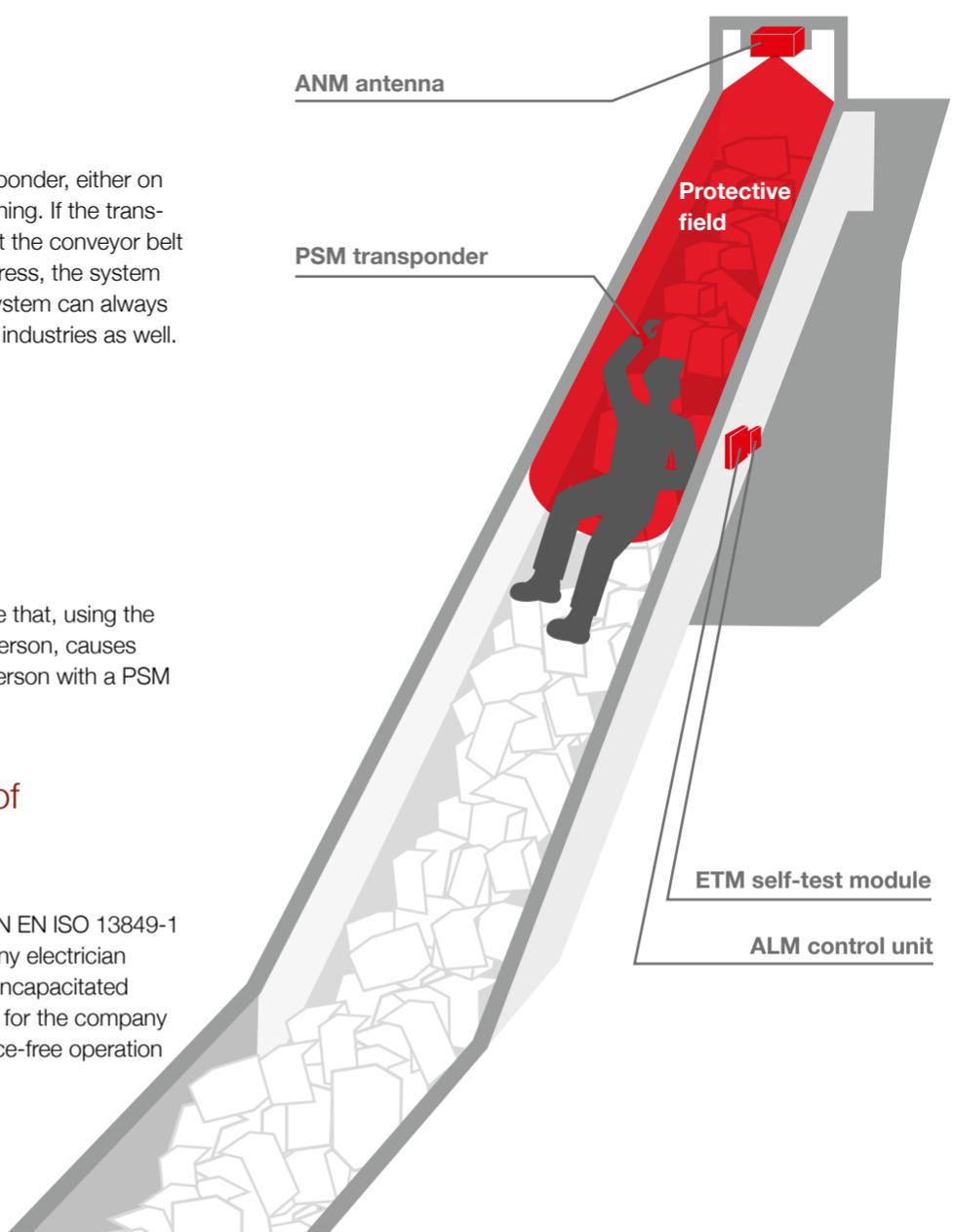
Every person to be protected wears a transponder, either on the wrist or as a pocket version in work clothing. If the transponder enters the defined hazardous area at the conveyor belt and the filling opening of a channel bailing press, the system will stop, keeping the employee safe. The system can always be adapted to the hazardous areas of other industries as well.

How does it work?

The GSG 202A is an electronic safety device that, using the PSM (transponder) worn by the protected person, causes the machinery to shut down as soon as a person with a PSM enters the hazardous area.

An overview of the benefits of the GSG 202A

- › Certified according to DIN EN 61496-1/DIN EN ISO 13849-1
- › Plug & play: Easily installed by the company electrician
- › Maximum protection even when staff are incapacitated
- › Increased security with better work safety for the company
- › Self-monitoring for completely maintenance-free operation



The transponder-test



Begin of shift

The employees put their transponders around their wrists. Before the start of work, the functionality of the transponder is tested: When the green lamp goes on: "Everything is OK." When the red light goes on: "Transponder is defective." When the red light goes on and a warning tone is audible: "Battery is empty".

Occupational safety

The employees wear their transponders – either on the wrist or as a pocket version in work clothing. Workers must never take the wristwatch transponder off or remove the piece of clothing that holds the pocket transponder as they will then no longer be protected.

Emergency

An employee enters the protective field of the feed belt. The transponder triggers an alarm and the system shuts down. The employee can be saved before falling into the dangerous feed chute.



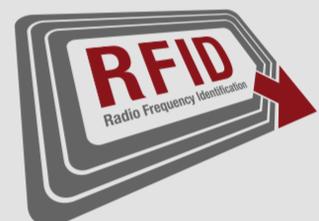
The test module

Test module 1 is mounted in a convenient spot, for example at the exit of the common room or entrance to the work area. Here the employees test their transponders by holding them in front of the module.



Certification

The GSG202A system was certified by IFA – Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (Institute for Occupational Safety and Health of the German Social Accident Insurance) – in accordance with the European Machinery Directive DIN EN 61496-1 / DIN EN ISO 13849-1 and is thus **the only approved safety system** of its kind on the market.



RFID technology

The U-Tech GSG202 personal protection system is based on cutting-edge RFID technology.



Interested?

Please visit our website
www.u-tech-gmbh.de

give us a call
Tel. +49 (0)2 61 - 9 63 86 32

or send an email to
kontakt@u-tech-gmbh.de

A wristwatch saves lives



Red button:
Emergency stop button
 (only in conjunction with the
 optional emergency-stop module)

Red LED:
Transmission monitor

Green LED:
Battery indicator

Green button:
Emergency stop reset

The PSM transponder

The PSM transponder is worn on the wrist like a wristwatch by employees working in a hazardous area. If the employee enters the protective field, the transponder is activated and via a radio link it sends the stop command for the corresponding equipment to the control unit.

“PSM” stands for personnel safety module. The term “transponder” is a portmanteau of the words transmitter (transmitter) and responder (responder).

Easy installation: Plug & play



ALM control unit

The control unit evaluates the signals of the GSG 2 modules and initiates the automatic shutdown of the machine in an emergency. It is mounted in a convenient, low-vibration location at the monitored system.



ANM antenna

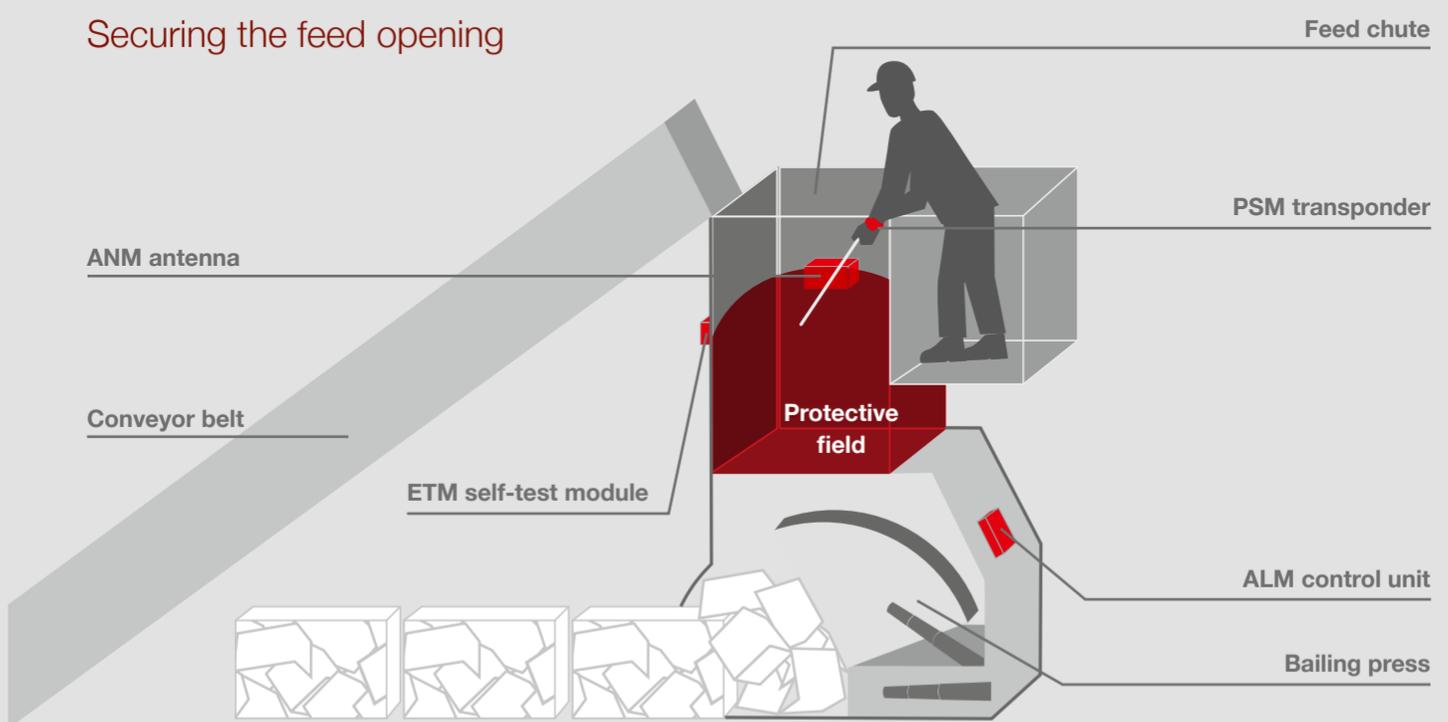
The antenna module sends an electromagnetic protection field and transmits the shutdown command to the control unit. It is mounted on an adjustable universal mount over the hazardous area. The front or back of the antenna should be tilted towards the hazardous area.



ETM self-test module

The self-test module is a receiver for monitoring the electromagnetic protective field at a fixed position on the edge of the protective field. During activation by an electromagnetic protective field, it sends monitoring pulses to the control unit. If these monitoring pulses are not received, the control unit issues a stop command.

Securing the feed opening



Another hazardous area is found at the feed opening. In presses with a platform, there is a danger that the employee will fall into the chute when „poking“ the material to eliminate a jam. This can be fatal in most cases.

This hazardous area is secured by the supplementary GSG 202 S personal protection system (chute protection). It consists of a normal GSG 202A whose antenna has been modified so

that an antenna is mounted on the side of the chute about 1 m below the upper edge of the chute. The field is set so that the chute is completely covered by the protective field.

If an employee falls into the chute, he or she will always pass through the field. The press stops immediately and the employee is saved. Of course, only if the employee is wearing the lifesaving transponder!