



SOLUTIONS AGAINST UNINTENDED CAR MOVEMENT

# CERTIFIED UCM SOLUTIONS ACCORDING TO EN81-1/2 A3

## What is unintended car movement?

According to EN81-1/2 A3 and EN81-21 (new lifts in existing buildings), new lifts installed after January 1st 2012 must be equipped with a system to prevent a car moving away from the floor with the landing door not in the locked position and the car door not in the closed position.

A UCM solution can be certified as a system (type examination certificate) or composed by tested components.  
The UCM unit shall detect unintended movement of the car, shall cause the car to stop and keep it stopped.



## Complete A3 Solutions of Wittur

WITTUR innovative and unique UCM solution brings together EOS - Wittur's advanced electronic overspeed governor (EOS) with a variety of ancillary safety equipment.

EOS, through its multi-channel sensors, accurately measures position, speed and acceleration, to trigger the safety gear or machine brake faster and stop car movement before it reaches a potentially harmful distance or speed. EOS, in contrast to the usual overspeed governors on the market (Jack-type), triggers from any position, whereby the load on people and material are significantly reduced.  
Another advantage of EOS is the quiet running characteristic.

## EXCELLENCE IN COMPONENTS

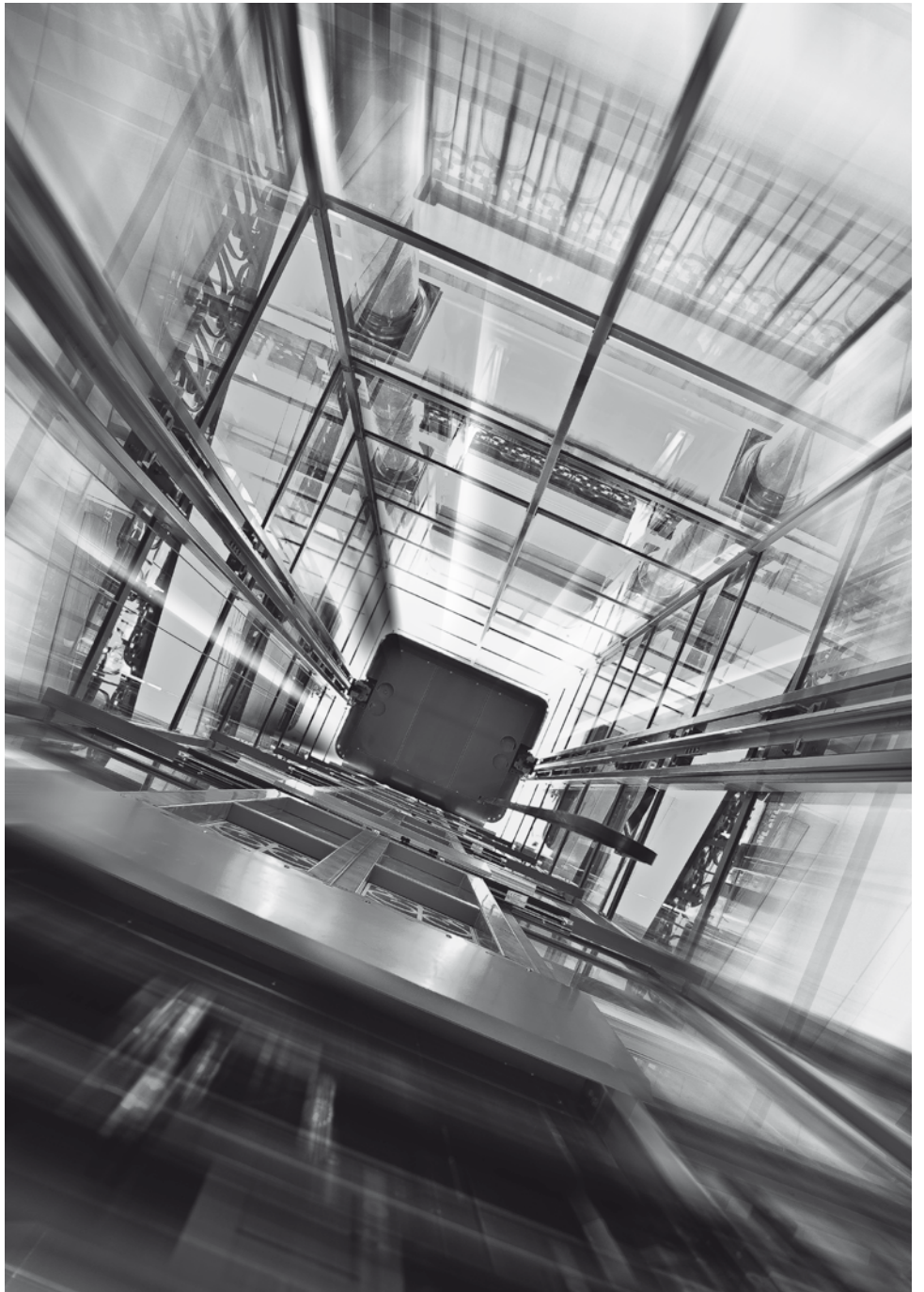


WITTUR GROUP

[www.wittur.com](http://www.wittur.com)

COMPLETE EN81-1/2 A3 SOLUTION PACKAGES OF WITTUR

# UCM SOLUTIONS



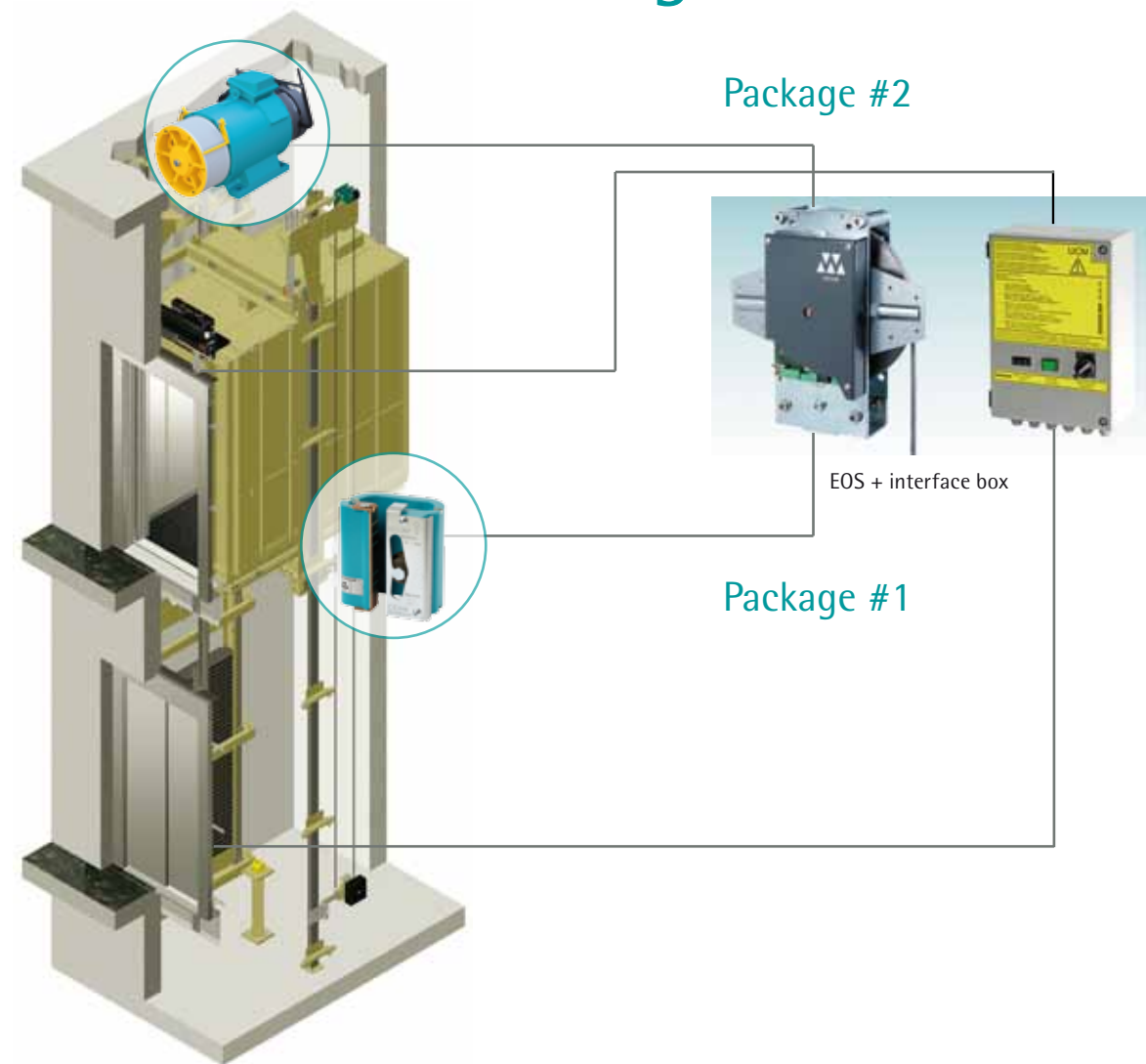
EXCELLENCE IN COMPONENTS

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## SOLUTIONS AGAINST UNINTENDED CAR MOVEMENT

### UCM Solution Packages for electric Lifts



- Applicable for Lifts according to LD 95/16/EC, EN81-1, EN81-21 and EN81-80 (SNEL).
- Safety system type tested against Unintended Car Movement => UCM Solution. According to EN81-1 A3.
- Simplified placing on the market by system certificate A3.
- Accurate position and speed measurement.
- UCM distance and speed set and sealed by the factory: easy installation, no adjustment required.
- Self-monitoring system with completely redundant design for faultless operation.
- Electronic interface including all necessary components for autonomous operation of EOS; no modification of lift controller required.

## SOLUTIONS AGAINST UNINTENDED CAR MOVEMENT

### EOS with BSG-25P



Package #1

- EOS + BSG + Electronic interface.
- Max. rated speed 2,0 m/s
- Total mass P+Q 2550 kg
- Max. travelling height: 120 m
- Innovative bidirectional progressive safety gear BSG with great distance between guide rail and safety gear.
- EOS monitoring of car level, speed and acceleration.
- EOS triggers the safety gear after a predefined distance from floor level or after exceeding a predefined speed: fast intervention times and fast tripping after detection.
- Electronic interface independent from lift controller.
- Applicable for advanced door opening and releveling.
- Smart integrated UPS in case of power outage.

### EOS with gearless drive braking system



Package #2

- EOS + Gearless drive + Electronic interface.
- Max. rated speed 3,5 m/s
- Max. rated load: 4000 kg
- Max. travelling height: 120 m
- EOS monitoring of car level, speed and acceleration.
- EOS triggers the machine brake after a predefined distance from floor level or after exceeding a predefined speed: fast intervention times and fast tripping after detection.
- Electronic interface independent from lift controller.
- Applicable for advanced door opening and releveling.
- Smart integrated UPS in case of power outage.

## SOLUTIONS AGAINST UNINTENDED CAR MOVEMENT

### UCM Solution for Hydraulic Lifts



Package #3

### HDU device

- Electrically commanded no return valve.
- Permits no unintended car movement generally closed at landing position.
- Integrated self-monitoring intelligence.
- Redundancy by two valves in series.
- No additional and complex controller software.
- Applicable for advanced door opening and releveling.
- Applicable for different hydraulic installations especially for retrofitting for several kind of products.
- Easy and quick installation.