

# CRASH ATTENUATOR

## Crash attenuator without signalling “*Julietta*” Basic



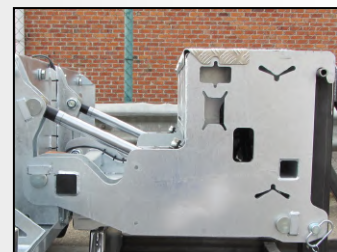
### Crash cushion

- Corrosion free and waterproof
- Equipped with lighting; fully operational when working/driving
- Rear corner protection left and right
- Electro-hydraulic levering of the crash attenuator
- Coating following EN ISO 11925-2 (EC E)
- Standard surrounding lighting installed

The cushion is tilted into and out of operation

### Coupling mechanism:

- Heavy metal construction
- Hydraulic cylinders for levering the cushion
- Hydraulic system with an electrical pump (24 V) and oil tank including command



### Mounting

- Coupling frame with adjustable king pins (height)
- Quick coupling mechanism of the crash attenuator for easy handling onto another vehicle, removable by a forklift
- Maximum 3 cable connections with the vehicle: driving lighting, control panel and optionally a 24 V connector

ONLY APPROVED  
CRASH ATTENUATOR

Made in Belgium

- Fully in house R&D and manufacturing 
- Sales
- Rental
- Repair & maintenance

The cushion is easily changed  
and replaced in case of  
damage or collision

**STUER-EGGHE**

[www.stuer-egghe.be](http://www.stuer-egghe.be)

crash attenuators - roof signalling  
mobile signalling - trailers - bodywork

Industriepark Noord 17a-23  
9100 Sint-Niklaas

Tel 03/766.04.04  
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# CRASH ATTENUATOR

## Elevated signalling mounted on telescopic LED mast

### “Julietta” Large

#### ▼ Working height 8 meters



Variable messaging sign posting mounted on telescopic mast


- Maintenance-free mono mast
- Sign 2100 x 2100 mm
- LED panel 1500 x 1500 mm with texts, logos and films  
Colour: Full colour, pixel pitch 10 mm
- Fully adjustable illumination
- Sign posting texts and images
- Easy programming of messaging  
Uploading images via Memory stick (no special software required)
- Supply: 24 V truck battery + 2 extra batteries, 2 x 12 V 230Amp, battery isolator, controller (batteries not included)
- LED sign posting complies with the imposed EN 12966 regulations (LED 3 GEN)

Stuer-Egghe programs your led screen with +/- 50 standard working simulations



The light arrow is controlled by controllers whereby the circuit boards are superfluous (the controllers are not sensitive to changes in temperature -40° +60°)

LED LIFT APPROVAL NR:  
BE1017573

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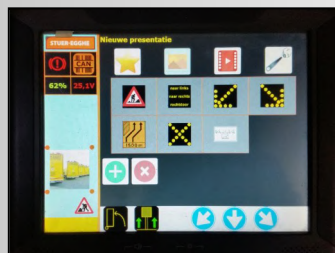
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# CRASH ATTENUATOR



Easy operation via 8'' touchscreen to be installed in the cabin of the truck.

Automatic safety device installed: after pulling the handbrake (of the truck), the lift can be raised up to the working position (8m).



Easy programming of messages and images via USB memory stick.

Uses your own calculation programming.



Presignalling sign posting F79 and exit sign GX1 is supplied with the crash attenuator with elevated signalling.

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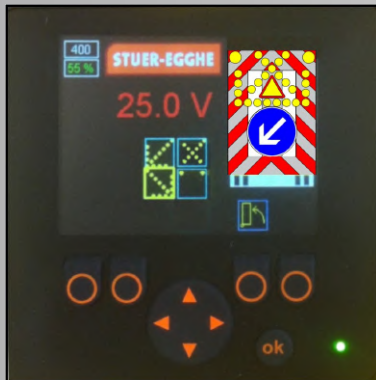
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# CRASH ATTENUATOR



Full automatic operation

## Operation

Stuer-Egghe mounts a fully automatic control unit for the safety of your workers

The control panel with 2,8 inch colour display LCD-screen, context menus and functions buttons enables operation from the cabin **AUTOMATICALLY**:


- Lifting and lowering the elevator
- Position the crash attenuator (lowering of the crash cushion, working position) or levering of the crash cushion, driving position), **while driving**.
- Choosing the function of the light arrow
- Announcement on the LCD-screen of the position of the light arrows
- Blue arrow follows the light arrow automatically



The movement of the crash attenuator can be stopped immediately with the emergency stop button

There are 2 emergency stops:

1 in de cabin of the truck, 1 on the crash attenuator

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# CRASH ATTENUATOR

## CRASH ATTENUATOR incl signalling board with light arrow and fully automatic controller

### New model: *“Julietta”* Max

Equipped with COC approved rear bumper, now successfully tested!

### Crash cushion

- Corrosion free and waterproof
- Equipped with lighting; fully operational when working/driving
- Rear corner protection left and right
- Electro-hydraulic levering of the crash attenuator
- Standard automatic control from the driver's seat
- Coating following EN ISO 11925-2 (EC E)
- Standard surrounding lighting installed
- Acoustic signal for levering the crash cushion

A crash attenuator is a cushion of some sort, which absorbs the shock of a collision. It is a wrinkling zone. The crash cushion is parked upstream of the team of workers and acts as a shield against a possible colliding vehicle. In case of collision, the cushion will be crushed and will be deformed; during deformation the crash cushion will absorb the energy of the collision. The energy absorption happens gradually and the driver isn't stopped suddenly at once.

### Coupling mechanism:



- Heavy metal construction
- Hydraulic cylinders for levering the cushion
- The cylinders are operated with an electro-hydraulic pump (24 V)


### Mounting

- Coupling frame with adjustable king pins (height)
- Quick coupling mechanism of the crash attenuator for easy handling onto another vehicle, removable by a forklift
- Maximum 3 cable connections with the vehicle: driving lighting, control panel and optionally a 24 V connector



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The cushion is easily changed and replaced in case of damage or collision

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# CRASH ATTENUATOR



## Signalling panel (belgian version)

The signalling panel can be adjusted according to the regulations of your country

- Retroreflective red & white striping
- Traffic sign
- Repositionable sign blue arrow
- 22 LED Arrow Lights (Ø 200mm) light up left arrow / right arrow / cross
- LED's take automatically the same position as the rotating white arrow mounted on the blue sign
- 2 x 2 mega LED lights (Ø 200mm) are mounted in the corners of the signalling panel
- Fully automatically operated from the cabin of the truck
- The LED lights are conform the regulations EN 12352
- The illumination of the lights is controlled automatically by a light sensor. Depending on the ambient light, the illumination of the LED lights will vary. When operated in daylight the illumination will be higher. During night, the illumination will be lower in order to overcome dazzling.
- **The light arrow is controlled by controllers whereby the circuit boards are superfluous (the controllers are not sensitive to changes in temperature -40° +60°)**

The complete module is hot-dipped galvanized and fully conform all the regulations and additional requirements. Conformity with other regulations are possible.

The signalling panel is fixed onto the crash attenuator and fully tested !!!

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## “Julietta” Max

- Crash cushion 100K
- Homologated rear bumper and road lights (COC)
- Signalling panel with LED lights
- 4 double led flash beacons (2 at the top and 2 at the bottom)
- The light arrow is controlled by controllers whereby the circuit boards are superfluous (the controllers are not sensitive to changes in temperature  $-40^{\circ}$   $+60^{\circ}$ )
- Automatic operation (from the cabin of the truck)

### STANDARD:

connection directly to the battery of the truck

-> without batteries and battery cases



### OPTION:

Operation completely autonomously by batteries

-> with battery cases, switches and connectors, without batteries



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## Safety precautions for the crash attenuator

### Locking / Safety

Mounting of the cushion  
with safety pins!

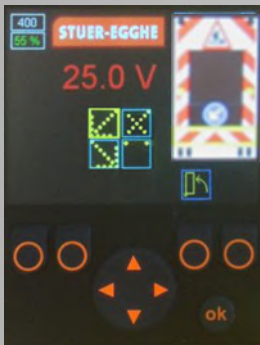


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Full automatic operation



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