



# EU-TYPE EXAMINATION CERTIFICATE

According to Annex IV, Part A of 2014/33/EU Directive

**Certificate No.:** EU-SG 488

**Certification Body of the Notified Body:** TÜV SÜD Industrie Service GmbH  
Westendstr. 199  
80686 Munich – Germany  
Identification No. 0036

**Certificate Holder:** G. Schlosser Aufzugtechnologie GmbH  
Felix-Wankel-Strasse 4  
85221 Dachau – Germany

**Manufacturer of the Test Sample:** G. Schlosser Aufzugtechnologie GmbH  
Felix-Wankel-Strasse 4  
85221 Dachau – Germany  
(Manufacturer of Serial Production - see Enclosure)

**Product:** Progressive safety gear, braking device as part of the protection device against overspeed for the car moving in upwards direction and braking element against unintended car movement

**Type:** EB 59 D

**Directive:** 2014/33/EU

**Reference Standards:** EN 81-20:2014  
EN 81-50:2014  
EN 81-1:1998+A3:2009  
EN 81-2:1998+A3:2009

**Test report:** EU-SG 488 of 2016-07-25

**Outcome:** The safety component conforms to the essential health and safety requirements of the mentioned Directive as long as the requirements of the annex of this certificate are kept.

**Date of Issue:** 2016-07-25



Achim Janocha  
Certification Body "lifts and cranes"



**Annex to the EU-Type-Examination Certificate  
No. EU-SG 488 of 2016-07-25**



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**1 Scope of application**

1.1 Generally

Following application possibilities refer to a brand new pair of safety gear depending on manufacture and condition of the guide rail running surface and maximum rated and tripping speed. The safety component can fulfil separately and in combination three security features according 1.2, 1.3 and 1.4.

Guide rails to be used

Minimum running surface width 20 mm

Blade width 8 – 19 mm

Notes:

\* Mineral oils without additives (e.g. lubricating oils C according DIN 51517, part 1)

\*\* Response distance: Defined as the maximum distance, that can be covered by the car between inoperative position of the safety gear and until the car lies against the guide rails (start of retraction)

\*\*\* Retraction distance: Defined as the maximum distance that can be covered by a car with parallel build-up of the braking force until the safety gear has reached its final position (limit stop)

1.2 Using as a progressive safety gear (acting downwards) - permissible total mass of car and rated load depending on maximum rated and tripping speed

Manufacturing of running surface	Condition guide rail	Max. range of rated speed [m/s]	Max. tripping speed [m/s]	Total mass [kg] min. – max.
drawn	dry	1.37 – 1.49	1.71	653 – 1792
		1.73 – 1.88	2.16	1792
	oiled*	1.37 – 1.49	1.71	734 – 1608
		1.73 – 1.88	2.16	1608
machined	dry	1.37 – 1.49	1.71	778 – 1690
		1.73 – 1.88	2.16	1690
	oiled*	1.37 – 1.49	1.71	768 – 1647
		1.73 – 1.88	2.16	1647

For the intermediate values of the maximum tripping speed of 1.71 – 2.16 m/s the corresponding maximum total mass can be determined through linear interpolation in the range of 653 - 1792, 734 - 1608, 778 - 1690 and 768 - 1647 kg .

1.3 Using as a braking device - part of the protection device against overspeed for the car moving in upwards direction (acting upwards) - permissible brake forces

Manufacturing of running surface	Condition guide rail	Max. tripping speed [m/s]	Brake force [N] min. – max.
drawn	dry	1.71	3521 – 9518
		2.16	9518
	oiled*	1.71	4114 – 9324
		2.16	9324
machined	dry	1.71	3270 – 15244
		2.16	15244
	oiled*	1.71	3234 – 14399
		2.16	14399

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For the intermediate values of the maximum tripping speed of 1.71 – 2.16 m/s the corresponding maximum brake force can be determined through linear interpolation in the range 3521 - 9518, 4114 - 9324, 3270 - 15244 and 3234 - 14399 N.

- 1.4 Using as a braking element - part of the protection device against unintended car movement (acting upwards and downwards) - permissible brake forces, range of tripping speed and design features

Manufacturing of running surface	Condition guide rail	Effecting direction	Max. tripping speed [m/s]	Brake force [N] min. – max.
drawn / machined	dry or oiled*	downwards	2.10	10448 – 28672
		upwards	2.10	3234 – 15244

Assigned arrangement and design features

- Air gap in acc. w. assembly instructions
- Maximum total distance = response distance\* + retraction distance\*\*:  
     Upwards 120 mm  
     Downwards 95 mm

**2 Terms and Conditions**

- 2.1 Above mentioned safety component represents only a part at the protection device against over-speed for the car moving in upwards direction and unintended car movement. Only in combination with a detecting and triggering component in accordance with the standard (two separate components also possible), which must be subjected to an own type-examination, can the system created fulfil the requirements for a protection device.
- 2.2 The forces acting on the guide rails shall be safety absorbed.
- 2.3 Mass configuration of the lift installation with regard to the permissible total mass and braking forces to be construed in a way that comply with the valid values of deceleration according standard EN 81-20 based on safety function (e.g. deceleration of the empty car in up direction not more than 1g<sub>n</sub>).
- 2.4 The installer of the complete lift must create an examination instruction to fulfil the overall concept of the protection device, add it to the lift documentation and provide any necessary tools or measuring devices, which allow a safe examination (e. g. with closed landing doors).
- 2.5 The identification drawing No. 5330.600.000 including stamp dated 2016-07-25 shall be included to the EU type-examination for the identification and information of the general construction and operation and distinctness of the approved type.
- 2.6 The EU type-examination certificate may only be used in combination with the corresponding annex and enclosure (List of authorized manufacturer of the serial production). The enclosure will be updated immediately after any change by the certification holder.

**3 Remarks**

- 3.1 Due to the characteristics, the brake force for the progressive safety gear acting downwards and the brake force for the braking device acting upwards are permanently related to each other. They cannot be adjusted separately in principle. The permissible total mass stated in 1.2 thus also is permanently related to the permissible brake force as defined in 1.3 and 1.4.
- 3.2 Pursuant to the comment standard EN 81-50, the total mass determined for adjustment purposes may be 7.5 % higher or lower.

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- 3.3 The progressive safety gear can also be used to a counterweight in compliance with the permissible total mass according table 1.2 of this certificate till permissible tripping speed.
- 3.4 It can be assumed, that with regard to low tripping speeds (based on the associated test report) according item 1.4 the braking element (part of the protection device against unintended car movement) provides functionality itself.
- 3.5 Examination of compliance with other requirements according standard, reduction of braking forces due to wear-and-tear or alterations to the installation due to the installation's operation such as alterations to the running surfaces of the guide rails, are not part of this type-examination.
- 3.6 This EU type-examination certificate was issued according to the following standards:
- EN 81-1:1998 + A3:2009 (D), Annex F.3, F.7 and F.8
  - EN 81-2:1998 + A3:2009 (D), Annex F.3 und F.8
  - EN 81-20:2014 (D), part 5.6.2.1.1.2, part 5.6.6.11 and part 5.6.7.13
  - EN 81-50:2014 (D), part 5.3, 5.7 and 5.8

A revision of this EU type-examination certificate is inevitable in case of changes or additions of the above mentioned standards or of changes of state of the art.

**Enclosure to the EU Type-Examination Certificate  
No. EU-SG 488 of 2016-07-25**

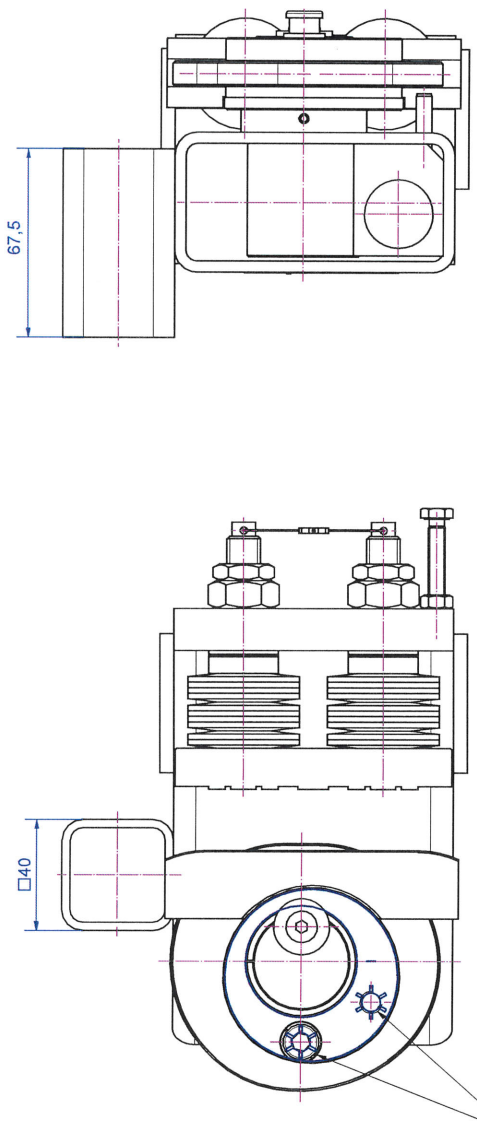


Industrie Service

**Authorised Manufacturer of Serial Production – Production Sites (valid from: 2016-07-25):**

**Company** G. Schlosser Aufzugtechnologie GmbH  
**Address** Felix-Wankel-Strasse 4  
85221 Dachau – Germany

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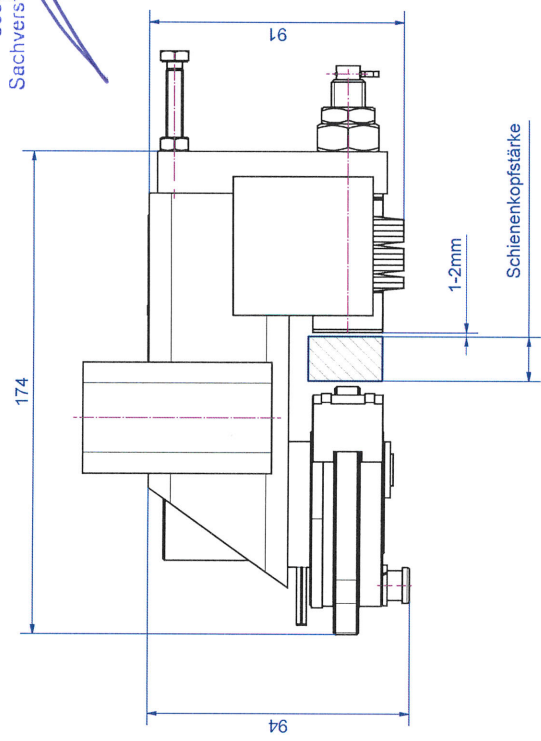
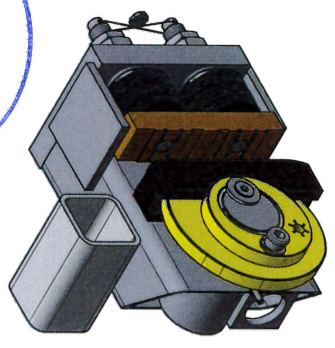
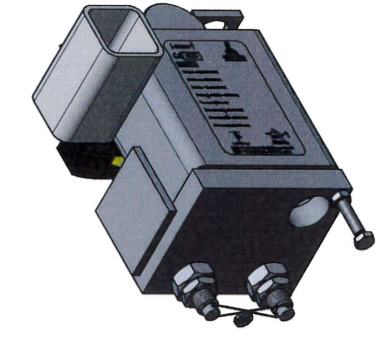
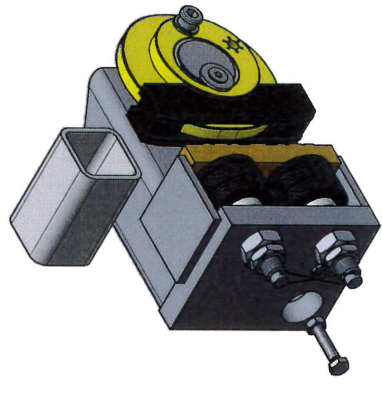
67,5

□40

Je nach Anbindung

2 5. JULI 2016

**GEPRÜFT / APPROVED**  
 TÜV SÜD Industrie Service GmbH  
 Prüflaborium für Produkte der Fördertechnik  
 Westendstraße 199  
 80666 München  
 Sachverständigen / Expert



Schienenkopfstärke

Verwendungsbezeichnung		Verwendungsbezeichnung		Verwendungsbezeichnung	
1	Neue Ausführung für EN 81-50	22.03.2016	Marinez	22.03.2016	Marinez
1	Änderungs-Nr.				
<b>Vertraulich, alle Rechte vorbehalten ISO 16016</b> Weitergabe sowie Vervielfältigung dieses Dokuments, Verwertung und Mitteilung seines Inhalts sind verboten, soweit nicht ausdrücklich gestattet. Zuwiderhandlungen verpflichten zu Schadenersatz. Alle Rechte für den Fall der Patent-, Gebrauchsmuster- oder Geschmackszeichenverletzung vorbehalten.					
<b>Aufzugstechnologie Schlosser</b> EU-SG 488		Datum Name 22.03.2016 Marinez 22.03.2016 TS		Werkstoff Maßstab im Orig. Masse (Gewicht) 5,0 kg	
Maße in mm Tolerierung ISO 8015 ISO 2768-mH		Zeichnungs-Nr. 5330.600.000		Dimensioned Drawing EB 59 D Zeichnungs-Nr. 5330.600.000	
J1-A-NELIANF ANGSTÜBEK 80 D/3830.000.000/EB 59D Rev		AUFZUGTECHNOLOGIE SCHLOSSER D-8521 Dachau		Blatt 1 Anz. 1	