

As a manufacturer of safety components, the Cobianchi Lift Components AG is responsible for the design and manufacture of the Cobianchi brake safety catches. In order to be able to make the production, the commissioning and the maintenance and servicing easier for the manufacturers of the lift frameworks and the erection / installation companies, these operating instructions have been established.

In these operating instructions the standard version PC13XX, installed width 180 mm and PC24XX, installed width 200 mm, both respectively with catch shaft and limit switch located within the traverse, are documented. If the installation type you are confronted with deviates from the version described here, then please contact your technical department, resp., your responsible design department.

In the following, you will find important remarks, which if you duly take note of will in all instances contribute to the impeccable installation and operation.

Attached to these operating instructions must be the following 4 drawings:

Drawing No.	Brake Safety Catch Type	Vertical plan, layout, side view
13DA-BA01-1	PC13DA, PC13DO, PC13UP	Assembly drawing FV with item No.
13GA-BA01-1	PC13GA, PC13GO, PC13GU	Assembly drawing FV with item No.
24DA-BA01-1	PC24DA, PC24DO, PC24UP	Assembly drawing FV with item No.
24GA-BA01-1	PC24GA, PC24GO, PC24GU	Assembly drawing FV with item No.

These instructions consist of several pages of text (depending on the language) and 4 drawings. Customer-specific solutions may render deviating erection procedures necessary. The brake safety catches can be installed on top of – or underneath the lift cage taking into consideration the various installed widths and the location of the connecting shaft. For detailed information, please refer to our technical documentation.

Subject to deviations from the standard version described here.

To be duly noted prior to the installation:

The brake safety catch consists of two safety catch heads. On both safety catch heads the respective serial numbers have been burnt-in. These numbers have to correspond to the serial numbers on the two stuck-on adhesive labels as well as to that of the enclosed type nameplate and they have to be able to be correlated with the works serial number of the installation. If this should not be the case, then there is a mix-up and it is absolutely necessary that you make contact with your purchasing department, your stores department or directly with the manufacturer.

The safety catch shaft and the resetting spring system 14 in the case of the brake safety catches bidirectional types PC13DA/GA and PC24DA/GA, single action brake safety catch types PC13DO/GO and PC24DO/GO and upwards braking types PC13UP/GU and PC24UP/GU are uniformly constructed in the general sense. The following description for this reason can be applied to all the types mentioned.

1. **Installation** in accordance with the enclosed drawings
 - 1.1. The installation of the safety catch heads in all instances takes place by means of a fixing plate 12, on which the base plate 11 is supported and is laterally displaceable. The identification „Down“ must be at the bottom, „UP“ on the other hand is on top. After tightening the screw 7 (use liquid threadlocker minimum medium strength), it has to be verified, whether the base plate is capable of being laterally displaced and whether it is brought back to its original position at the stop screw 21 by the leaf spring 3 (the stop screw 21 must be fixed on the side from the fixed brake shoe).
 - 1.2. The fixing plate 12 is bolted on with the gusset plate 5 or else directly to the safety catch frame.
 - 1.3. The triggering linkage by means of the supporting plate 13 is installed directly on the gusset plate 5 or on the safety catch frame. Please note: The position of the safety catch shaft has to be centred relative to the brake safety catch and the lifter 1 or 2 therefore has to be lying horizontally.
 - 1.4. The force required to hold the triggering lever 1 or 2 in its original position is adjustable by means of the threaded rod inside the compression spring 14. Depending on the application, the spring can be pre-tensioned additionally. The basic setting is at 10 mm pre-tensioning.

2. Connection

- 2.1. Connect the control rope with the rope end connection (rope socket fittings 20) to the lifter 1 or 2 at the control rope attack point.
- 2.2. Wire the brake safety catch switch 17 (230V, 4A) and check its operation.
- 2.3. Adjustment: Laterally align the position of the safety catch heads to the rail. Distance between the brake shoe and the rail: **PC13XX 1.5 – 2 mm; PC24XX 1.0 – 1.5 mm**
- 2.4. Verification prior to the commissioning:
 - a) The safety catch heads have to be laterally displaced towards the compression spring 3 and have to be capable of returning to their original position through the spring force.
 - b) The triggering lever 1 or 2 has to be displaced in the triggering direction and has to be returned to its original position through the compression spring 14.

3. Commissioning

3.1. To be duly noted prior to the first safety catch test:

The rail indispensably has to be cleaned of old dirt, rust protection coatings and any coats of paint or varnish. Most suitable for this are cold cleaning agents or brake disk cleaning agents.

In the case of oiled rails the HLP oils recommended according to the green indicating label should be used (DIN 51524, part 2, viscosity ISO VG 68-150).

3.2. Triggering forces (guidance value) for engaging the brake safety catch:

These are dependent on the fixing point of the control rope on the control rope lever 1 and 2 are applicable for the installation of our resetting spring system 14 with compression spring under condition that our installation recommendations have been adhered to:

	Distance centre rail – centre control rope		
	140 mm	160 mm	180 mm
PC13DA, PC13DO, PC13UP PC13GA, PC13GO, PC13GU			
Braking upwards	70 N	90 N	110 N
Catching downwards	100 N	120 N	150 N
PC24DA, PC24DO, PC24UP PC24GA, PC24GO, PC24GU	125 mm	150 mm	175 mm
Braking upwards	65 N	80 N	105 N
Catching downwards	90 N	110 N	145 N

It must be ensured that the tensile force generated in the limiter cable from the triggered speed limiter is at least twice the required force needed for the engaging of the catch device (and at least 300 N).

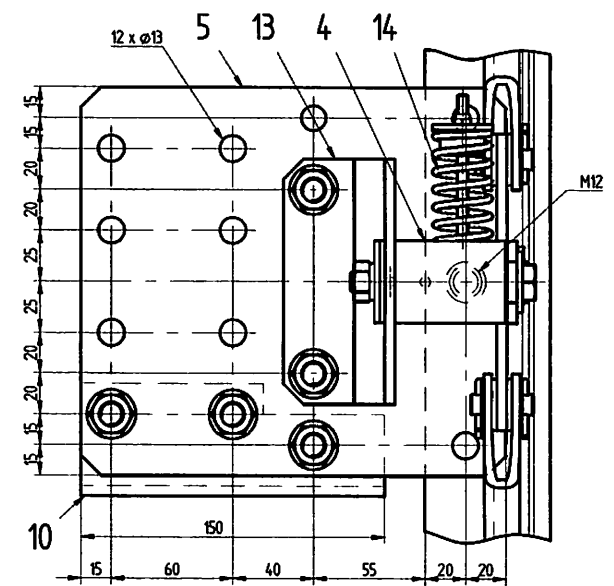
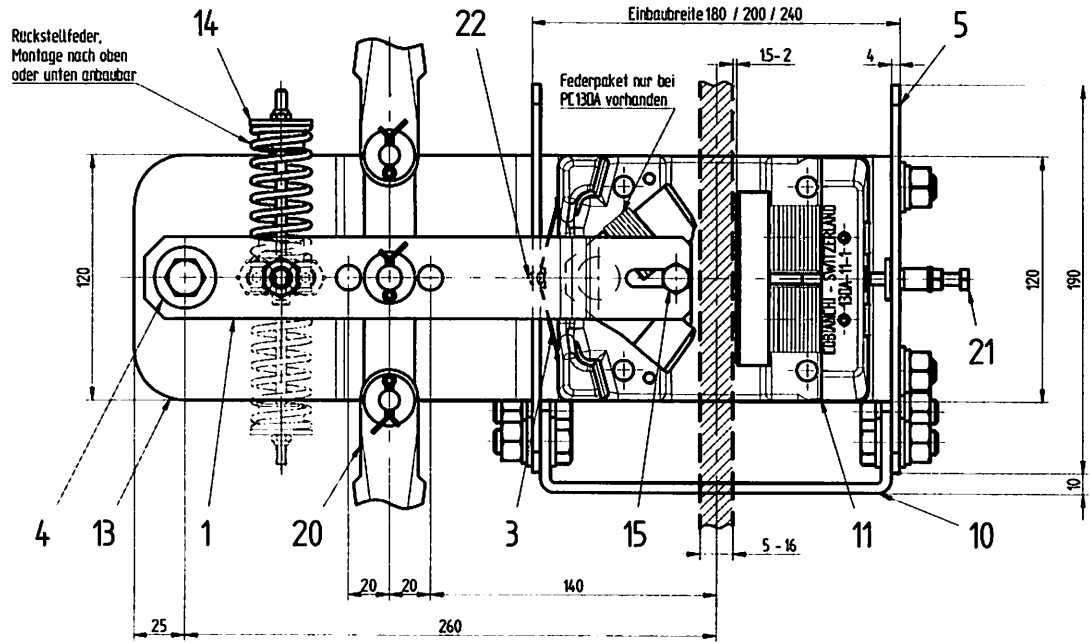
4. Servicing and Maintenance

Once the brake safety catches have been correctly installed, the servicing and maintenance is limited to the checking of:

- 4.1. **The condition of the rail**, in accordance with the above commissioning instructions.
- 4.2. **Triggering linkage**: Synchronous actuation of both safety catch heads, connection without any play through the triggering shaft, free movement of the lifters possible in one or in both directions.
- 4.3. **Return spring**: Present, under pre-tensioning.
- 4.4. **Limit switch 17**: Electrical-, mechanical function and actuation assured.
- 4.5. **Catch heads**: centred, clean, guides of the lift/elevator cage in perfect condition, not expanded/worn.
- 4.6. **Fixation**: Freely displaceable base plates 11 on the installation plates 12.
- 4.7. **Cleanness**: In general and in particular in the case of building elevators / lifts and conversion works make sure, that the safety catch heads are protected against contamination with plaster of Paris/ gypsum, concrete, cement, mortar, grit or similar building materials. Contaminated safety catch heads have to be dismantled and cleaned.

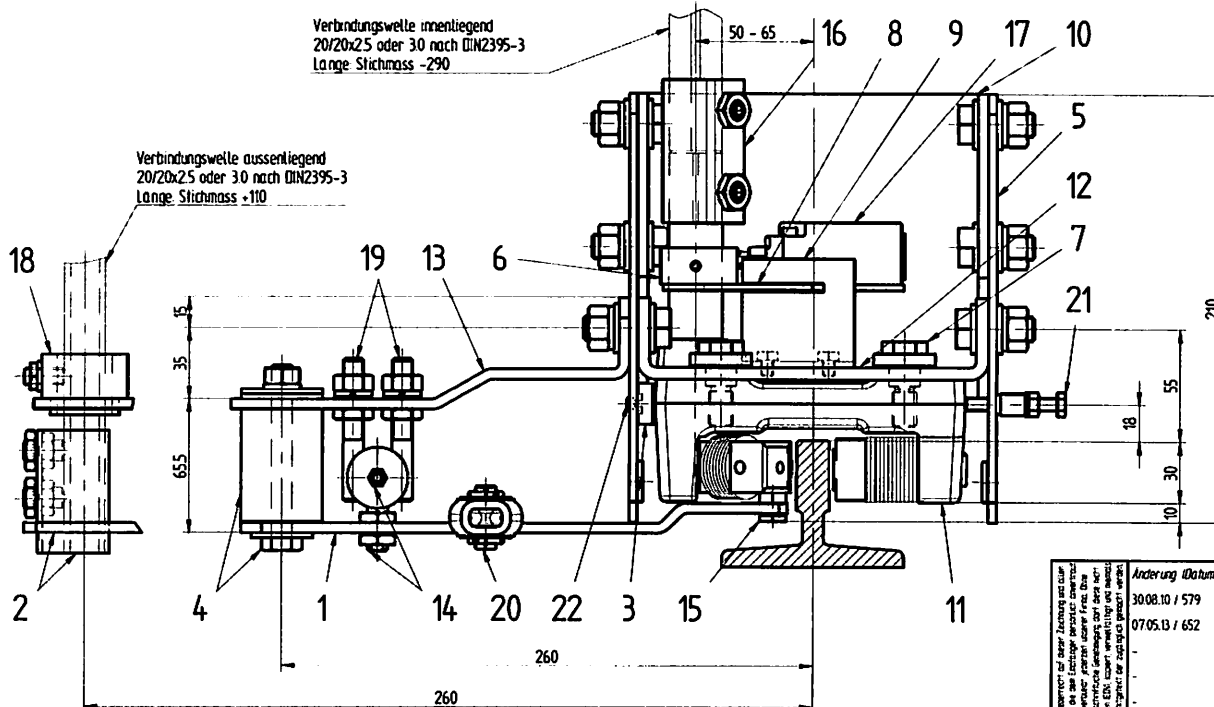
If these simple instructions are complied with, then the safety for the users of the lift / elevator as well as for the erection and installation company can be significantly increased.

Die Bohrungen in den Knotenblechen Pos. 51 dienen zur Befestigung der Fangvorrichtung im Rahmen.
Die Anzahl der Befestigungsschrauben, sowie die Festigkeit der Verbindung von Traverse und Hängewinkel müssen durch den Rahmenhersteller anwendungsabhängig und konstruktionsbezogen berechnet werden.



Verbindungsweile innenliegend
20/20x25 oder 30 nach DIN2395-3
Länge Stichmass -290

Verbindungsweile aussenliegend
20/20x25 oder 30 nach DIN2395-3
Länge Stichmass +110



FWA Verbindungsweile aussenliegend		FWL Verbindungsweile innenliegend		Technische Änderungen vorbehalten	
Stückzahl pro Fangvorrichtungsspar	Pos.	Bezeichnung	Pos.	Modell	Bezeichnungen
2	22	Schraube M6 zu Blattfeder	22		
2	21	Einstellschraube M6	21		
1	1	Seitschlossgarnitur kpl.	20		FV-30-1Z
2	2	Schafftschraube kpl.	19		DA-25-1Z
2	-	Anschlaghülse kpl.	18		DA-17-1Z
1	1	Endschalter kpl.	17		DA-05-2Z
-	1	Auslösevierkant kpl.	16		DA-03-3Z
2	1	Schraube	15		44DA-03-1
1	1	Rückzugdruckfedersystem kpl.	14		14DA-25-1Z
2	1	Stützblech 180/200/240mm	13		14DA-45-V-3/-4
2	2	Einbauplatte 180/200/240mm	12		14DA-44-V-3/-4
2	2	Grundplatte	11		13DA-11-2
2	2	Führungsschuhplatte 180/200/240mm	10		14DA-40-V-3/-4
1	1	Endschalterführung	9		14DA-38-2
1	1	Endschalteranbau	8		14DA-38-1
8	8	Zylinderschraube	7		14DA-29-1
1	1	Auslöser kpl.	6		14DA-28-1Z
4	4	Knotenblech	5		14DA-19-1Z
-	1	Hülse kpl.	4		14DA-17-2Z
2	2	Blattfeder 180/200/240mm	3		14DA-14-V-3/-4
2	-	Heber FWA kpl.	2		14DA-01-2Z
-	1	Heber FWL	1		14DA-01-1

Änderung (Datum / Index)
30.08.10 / 579
07.05.13 / 652
Ausgabe: 25.09.15 / 0H

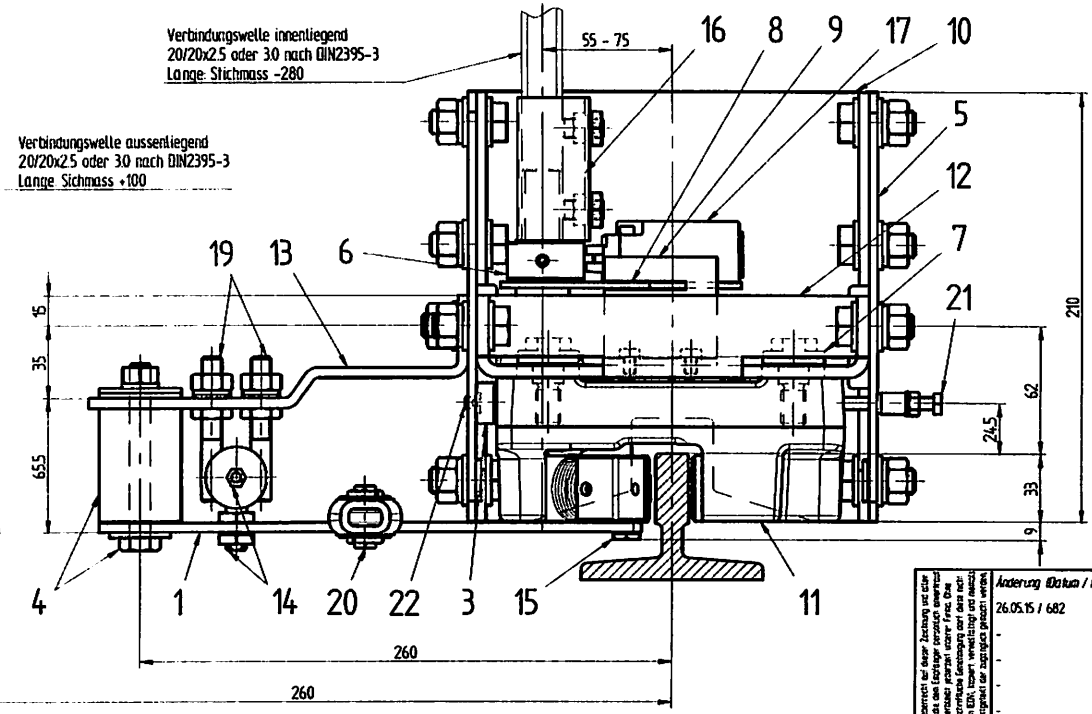
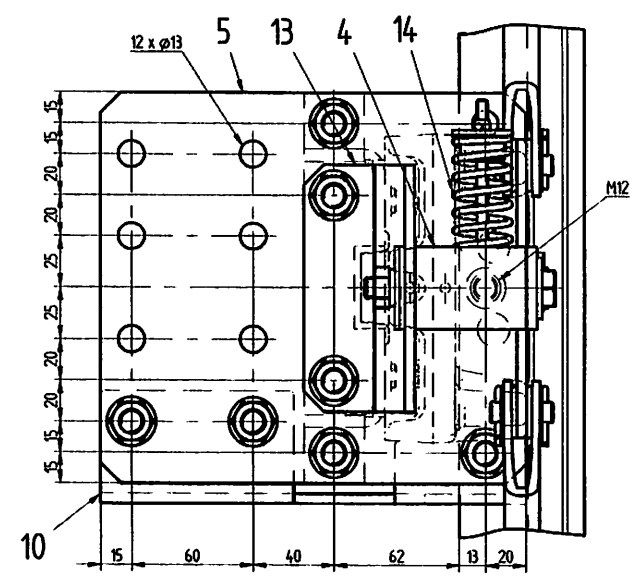
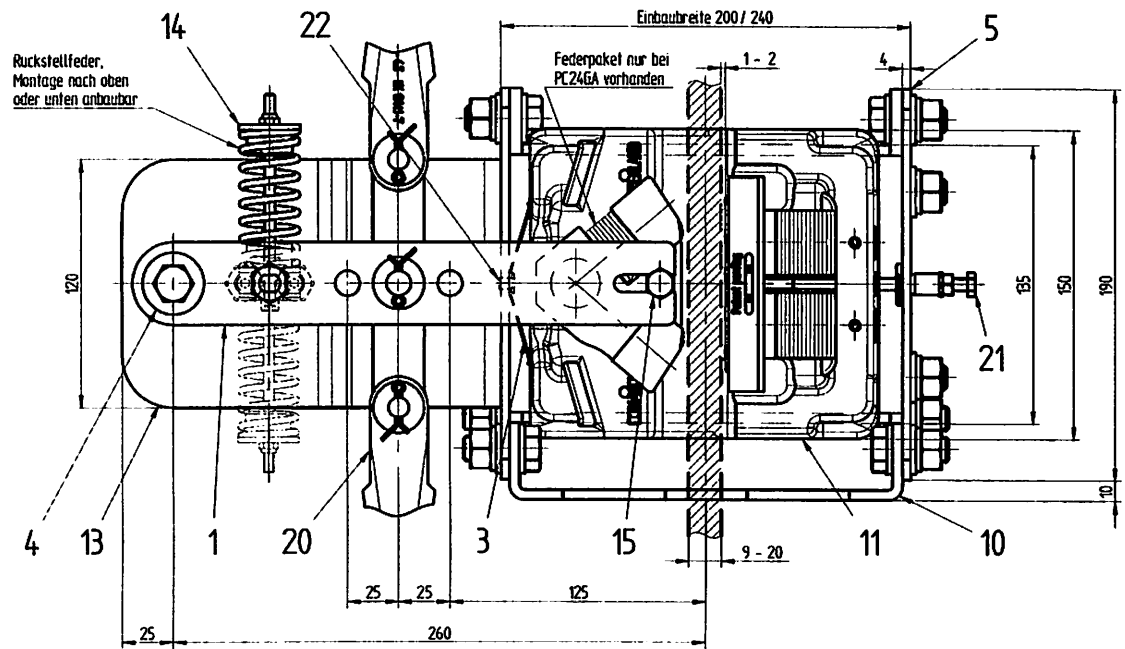
Zusammenstellung
zu Betriebsanleitung
FV-Typ: PC130A, PC130D, PC130P

Masstab	Gezeichnet	08.12.08	HG
1:25	Kontrolliert	30.08.10	HG
-	Gepufft	30.08.10	DH
-	Ersatz für	alte Zeichnung	

Zeichnungsnummer: **13DA-BA01-1**

Weststraße 16 CH-7672 Oberriedbach
Tel. ++41 - 1031720 50 50
Fax ++41 - 1031720 50 51
info@cobianchi.ch www.cobianchi.ch

Über Bohrungen in den Knotenblechen (Pos. 5) dienen zur Befestigung der Führungsvorrichtung im Rahmen.
Die Anzahl der Befestigungsschrauben, sowie die Festigkeit oder Verbindung von Traverse und Hängewinkel müssen durch den Rahmenhersteller anwendungsabhängig und konstruktionsbezogen berechnet werden.



FWA Verbindungswelle aussenliegend
FWL Verbindungswelle innenliegend
Technische Änderungen vorbehalten

Stückzahl	Pos	Bezeichnung	Pos	Werkstoff	Modell	Bezeichnungen
2	2	Schraube M6 zu Blattfeder	22	-	-	-
2	2	Einstellschraube M6	21	-	-	-
1	1	Seilverschlussgarnitur kpl.	20	-	FV-30-12	-
2	2	Schalterschraube kpl.	19	-	QA-25-12	-
2	-	Anschlaghülse kpl.	18	-	QA-17-12	-
1	1	Endschalter kpl.	17	-	QA-05-22	-
-	1	Auslösevierkant kpl.	16	-	QA-03-32	-
2	1	Schraube	15	-	24DA-03-1	-
1	1	Rückzugdruckfedersystem kpl.	14	-	14DA-25-12	-
2	1	Stützblech 200 / 240mm	13	-	14DA-45-3 / 45-4	-
2	2	Einbauplatte 200 / 240mm	12	-	24DA-44-1 / 44-2	-
2	2	Grundplatte	11	-	24GA-11-2	-
2	2	Führungsschubplatte 200 / 240mm	10	-	14DA-40-3 / 40-4	-
1	1	Endschalterführung	9	-	14DA-38-2	-
1	1	Endschalteranbau	8	-	14DA-38-1	-
8	8	Zylinderschraube	7	-	14DA-29-1	-
1	1	Auslöser kpl.	6	-	14DA-28-12	-
4	4	Knotenblech kpl.	5	-	14DA-19-12	-
-	1	Hülse kpl.	4	-	14DA-17-22	-
2	2	Blattfeder 200mm / 240mm	3	-	14DA-14-1 / 14-3	-
2	-	Heber FWA kpl.	2	-	24DA-01-22	-
-	1	Heber FWL	1	-	24DA-01-1	-

Änderung Datum / Index
26.05.15 / 682

Ausgabe: 25.09.15 / DH

Zusammenstellung
zu Betriebsanleitung
FV-Typ: PC24GA, PC24GO, PC24GU

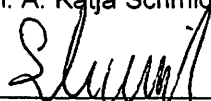

1: 25
-
-
-
Ersatz für

03.09.13
26.05.15
26.05.15

DH
DH
HG

24GA-BA01-1

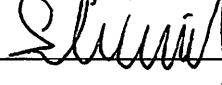
EU-Konformitätserklärung für Sicherheitsbauteile
EU-Declaration of conformity for safety components
Déclaration de conformité EU pour les composants de sécurité
Dichiarazione di conformità EU per i componenti di sicurezza

Hersteller / Manufacturer: Fabricant / Produttore:	Cobianchi Lifteile AG Weststrasse 16 CH-3672 Oberdiessbach
Beschreibung / Funktion:	Bremsfangvorrichtung gegen Übergeschwindigkeit abwärts kombiniert mit Bremseinrichtung aufwärts wirkend und Bremselment gegen unbeabsichtigte Bewegung des Fahrkorbes.
Description / Function:	Progressive safety gear acting in downwards direction with braking device as part of the protection device against overspeed in upwards direction and braking element against unintended car movement.
Préscription / Fonction:	Parachute à prise amortié contre vitesse excessive vers en bas avec dispositif protégeant la cabine qui monte contre une vitesse excessive et élément de freinage contre mouvement de cabine incontrôlée.
Descrizione / Funzione:	Paracadute a presa progressivo contro velocità eccessivo verso in basso con dispositivo contro velocità eccessivo verso in alto e elemento di frenata contro movimenti incontrollati della cabina.
Typ / Type / Type / Tipo:	PC13DA, PC13GA, PC24DA, PC24GA
Seriennummer: Serial number: Numero de série: Numero di fabbricazione:	Siehe Typenschild und Gravur auf Fangkopf see typ plate and engraving on each safety head gardez plaque de fabrication et gravure vedi sulla targhetta e incisione
Baujahr / Year of manufacture: Année de construction / Anno di fabbricazione:	Siehe Typenschild / visible on type plate visible sur plaque de caractéristique / vedi targhetta
Harmonisierte Normen / Harmonized standards: Normes harmonisées / Norme armonizzate :	EN 81-20/50: 2014
Richtlinie / Directive / Directive / Direttiva:	2014 / 33 / EU
Benannte Stelle der Baumusterprüfung: Notified Body carried out EC certificate: Organisme agréé / Organismo autorizzato:	Liftinstituut B.V. Buikslotermeerplein 381 P.O. Box 36027 NL-1020 MA Amsterdam
Kennnummer / Identification number: numéro d'identification / numero di identificazione:	0400
Bescheinigung Nr. / EC certificate nr.: No. d'attestation / no. di certificato:	PC13DA, PC13GA: NL08-400-1002-100-02 Rev. 4 PC24DA, PC24GA: NL07-400-1002-100-01 Rev. 5
Q-Systemüberprüfung erfolgt durch: Quality production check / System de qualité vérifié: Organismo per controllo sistema:	TÜV-SÜD Industrie Service GmbH Westendstrasse 199 D-80686 München
Kennnummer / Identification number: Numéro d'identification / Numero di identificazione:	0036
Ausgabedatum / Date of issue / Publié / Rilasciato:	Oberdiessbach, 11.07.2016
Bestätigt / Confirmed / Confirmée / Confermato:	COBIANCHI LIFTEILE AG
	Zentralsekretariat i. A. Katja Schmid
	Entwicklung i. A. Dominik Helfer
	
	

EU-Konformitätserklärung für Sicherheitsbauteile
EU-Declaration of conformity for safety components
Déclaration de conformité EU pour les composants de sécurité
Dichiarazione di conformità EU per i componenti di sicurezza

Hersteller / Manufacturer: Fabricant / Produttore:	Cobianchi Lifteile AG Weststrasse 16 CH-3672 Oberdiessbach
Beschreibung / Funktion:	Bremsfangvorrichtung / Bremseinrichtung gegen Übergeschwindigkeit, einseitig wirkend und Bremsselement gegen unbeabsichtigte Bewegung des Fahrkorbes.
Description / Function:	Progressive safety gear / braking device against overspeed acting in one direction and braking element against unintended car movement.
Préscription / Fonction:	Parachute à prise amortié / dispositif de freinage contre vitesse excessive dans une sense et élément de freinage contre mouvement de cabine incontrôlée.
Descrizione / Funzione:	Paracadute a presa progressivo / dispositivo di frenata contro velocità eccessivo singolo senso e elemento di frenata contro movimenti incontrollati della cabina.
Typ / Type / Tipo / Tipo:	PC13DO, PC13UP, PC13GO, PC13GU PC24DO, PC24UP, PC24GO, PC24GU
Seriennummer: Serial number: Numero de série: Numero di fabbricazione:	Siehe Typenschild und Gravur auf Fangkopf see typ plate and engraving on each safety head gardez plaque de fabrication et gravure vedi sulla targhetta e incisione
Baujahr / Year of manufacture: Année de construction / Anno di fabbricazione:	Siehe Typenschild / visible on type plate visible sur plaque de caractéristique / vedi targhetta
Harmonisierte Normen / Harmonized standards: Normes harmonisées / Norme armonizzate :	EN 81-20/50: 2014
Richtlinie / Directive / Direttiva:	2014 / 33 / EU
Benannte Stelle der Baumusterprüfung: Notified Body carried out EC certificate: Organisme agréé / Organismo autorizzato:	Liftinstituut B.V. Buikslotermeerplein 381 P.O. Box 36027 NL-1020 MA Amsterdam
Kennnummer / Identification number: numéro d'identification / numero di identificazione:	0400
Bescheinigung Nr. / EC certificate nr.: No. d'attestation / no. di certificato:	PC13DO, PC13UP, PC13GO, PC13GU: NL08-400-1002-100-02 Rev. 4 PC24DO, PC24UP, PC24GO, PC24GU: NL07-400-1002-100-01 Rev. 5
Q-Systemüberprüfung erfolgt durch: Quality production check / System de qualité verifié: Organismo per controllo sistema:	TÜV-SÜD Industrie Service GmbH Westendstrasse 199 D-80686 München
Kennnummer / Identification number: numéro d'identification / numero di identificazione:	0036
Ausgabedatum / date of issue / publié / rilasciato:	Oberdiessbach, 11.07.2016
Bestätigt / Confirmed / Confirmée / Confermato:	COBIANCHI LIFTEILE AG

Zentralsekretariat
i. A. Katja Schmid



Entwicklung
i. A. Dominik Helfer

