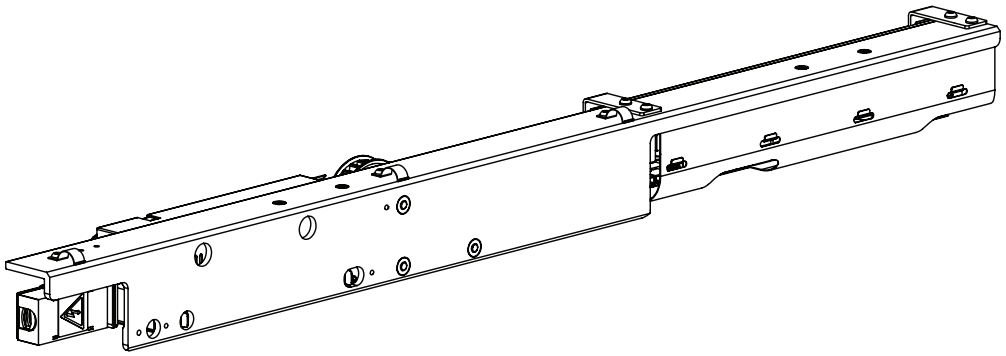
Sliding Door Operator
Ditec KS200HD-KS200RG Retrofit Kit



Installation Manual
Original instructions

Original instructions

1019202-DIen-6.0 – Issue 2025-06-16

CONTENTS

1 Revision

The following pages have been revised:

Page	Revision 5.0 → 6.0
8	Added item 20 and 48 in the table.

2 Reference

For general statement, electrical connection, start up, parameter setting and other information, please refer to DAS200 installation and Service Manual IP2266.

3 Tools required

- Allen key 6 mm with spherical tip
- Torx (T10, T20 and T30)
- Phillips screw driver
- Multi/Wire cutter
- Spanner 10mm
- Tape measuring tool

4 Mechanical installation

List of the door types

Item	Operator Brand&Type	Page	Bracket kit	Belt lock fixing bracket kit
1	ATS CLIXMASTER (Altr.1)	36	KS800B1	
2	ATS CLIXMASTER (Altr.2)	37	KS800B1	
3	ATS TSF 2100	38	KS800B1	KSFB1LOCK
4	Baumgartner Al-Profil	39	KS800B1	
5	Baumgartner steel	40	KS800B2	
6	Ditec Bis O	41	KS800B2	
7	Ditec Bis V	42	KS800B2	KSFB1LOCK
8	Ditec VALOR / VALOR R	43	KS800B1	
9	DORMA ES 50	44	KS800B1	
10	DORMA ES 55/60	45	KS800B1	
11	DORMA ES 70	46	KS800B1	
12	DORMA ES 90/100	47	KS800B1	
13	DORMA ES 200	48	KS800B3	
14	ELDEBE GSX	49	KS800B1	KSFB1LOCK
15	EMC	50	KS800B1	
16	EMD	51	KS800B1	
17	Faiveley 6	52	KS800B1	
18	Faiveley 12	53	KS800B1	
19	Faiveley 17	54	KS800B1	
20	GEZE Slimdrive SL NT	105	KS800BGZ	KSFB4LOCK
21	GEZE ECdrive	55	KS800B3	
22	GEZE TSA 340	56	KS800B1	
23	GEZE TSA 350 N/350 W	57	KS800B1	
24	GEZE TSA 360	58	KS800B1	
25	GEZE TSA 450	59	KS800B1	
26	Gilgen SLK/SLG	60	KS800B1	KSFB1LOCK
27	Gilgen SLM/SLP	61	KS800B1	
28	HORTON Series 2001	62	KS800B1	
29	Manusa PA 80	63	KS800B1	
30	Manusa STK	64	KS800B1	
31	Manusa Visio	65	KS800B4	KSFB2LOCK

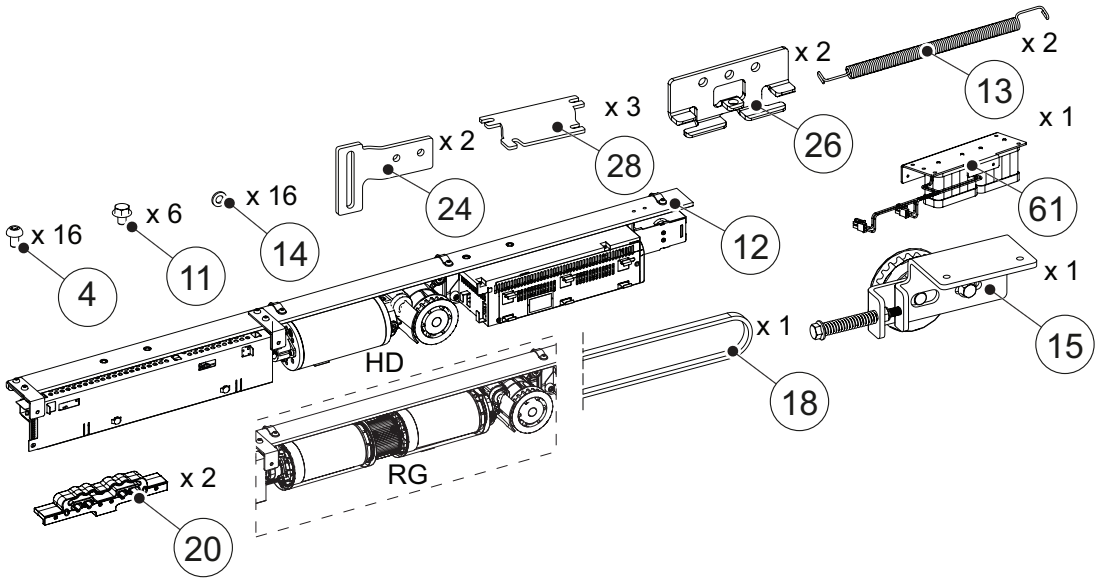
Item	Operator Brand&Type	Page	Bracket kit	Belt lock fixing bracket kit
32	Portalp 2000B	66	KS800B2	KSFB1LOCK
33	Porte Automatiche GTS-L/-P	67	KS800B1	
34	Porte Automatiche GTV	68	KS800B1	
35	Record STA7	69	KS800B2	
36	Record STA8	70	KS800B2	
37	Record STA9/STA10	71	KS800B1	
38	Record STA11	72	KS800B1	
39	Record STA12/STA14 Steel	73	KS800B1	
40	Record STA12/STA14 AL	74	KS800B4	KSFB2LOCK
41	Record STA13	75	KS800B1	KSFB1LOCK
42	Record STA15	76	KS800B1	
43	Record STA16/17	77	KS800B1	
44	Record STA19	78	KS800B4	KSFB2LOCK
45	Record STA20	79	KS800B4	
46	Record STA21	80	KS800B4	
47	Tormax TMP	81	KS800B1	KSFB1LOCK
48	TORMAX iMotion 2202	88	KS800BTX	KSFB3LOCK
49	Tormax TX/TM/TMX	82	KS800B1	KSFB1LOCK
50	Tormax TEP/TXP	83	KS800B1	
51	Waldoor EC	84	KS800B1	
52	Waldoor UC	85	KS800B2	KSFB2LOCK
53	Waldoor UWS 800	86	KS800B1	KSFB1LOCK
54	Waldoor UWS 2400	87	KS800B4	KSFB2LOCK

4.1 Ditec KS200HD replacement kit for non escape route universal solution
Ditec KS200RG replacement kit for escape route universal solution

Note! Following are the common steps for connecting components, please refer to cross-view for each adapted door type.

4.1.1 Check the components and kits

Check the components (Universal)



4 Screw: DIN 7500 M6x10

11 Screw: DIN 6921 (M6SF) M6x8

12 Backbone assembly

13 Slack reducer (Not needed if belt lock equipped)

14 Washer: ISO 7089 (BRB) 6.4x12x1.5

15 Tension wheel assembly

18 Tooth belt

20 Belt clamp

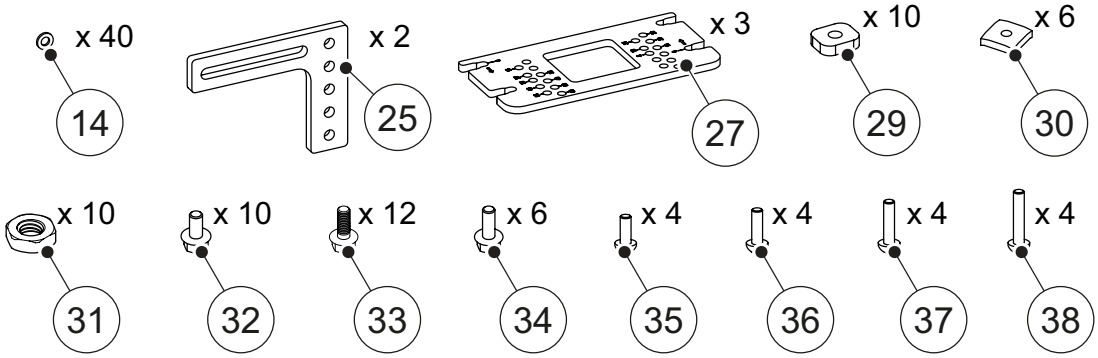
24 Connecting bracket

26 Transmission bracket

28 Mounting bracket

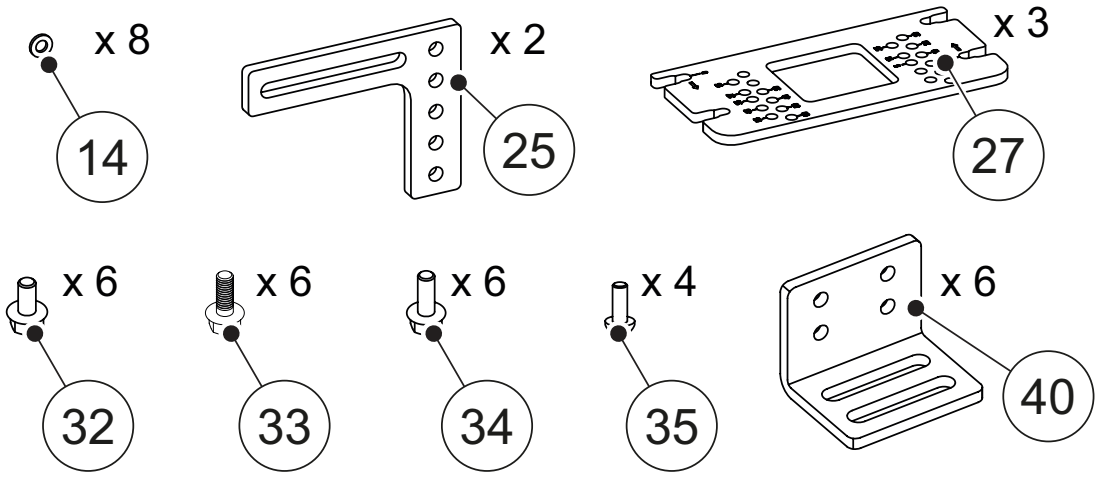
61 Battery (standard component only on KS200RG)

Check KS800B1 kit



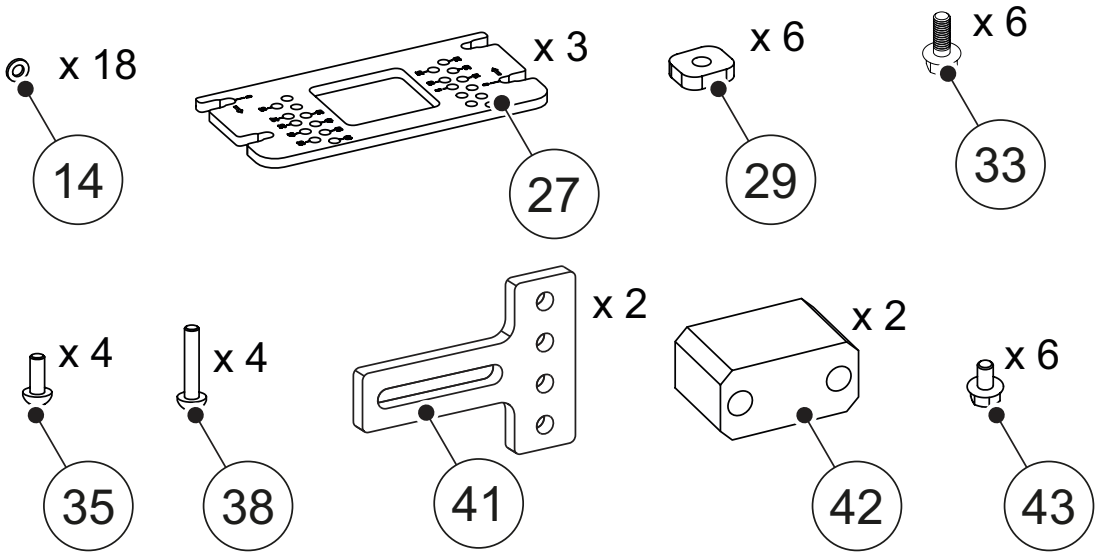
14 Washer: ISO 7089 (BRB) 6.4x12x1.5 FZB
25 Bracket 1
27 Mounting plate
29 Square nut: M6
30 Nut: M6
31 Nut: ISO 4035 (ML6M) M6 FZB
32 Screw: DIN 6921 (M6SF) M6x12
33 Screw: DIN 6921 (M6SF) M6x14
34 Screw: DIN 6921 (M6SF) M6x16
35 Screw: DIN 7500 M6x16
36 Screw: DIN 7500 M6x20
37 Screw: DIN 7500 M6x25
38 Screw: DIN 7500 M6x35

Check KS800B2 kit



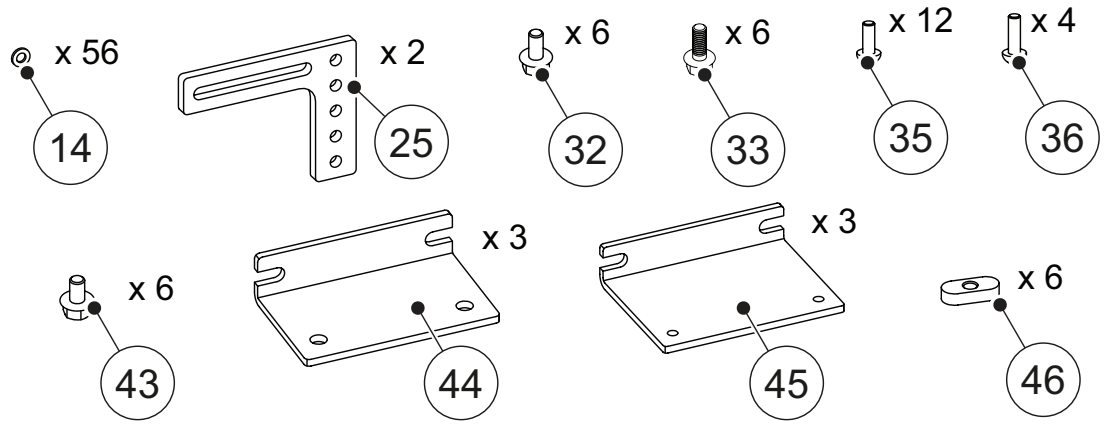
14 Washer: ISO 7089 (BRB) 6.4x12x1.5 FZB
25 Bracket 1
27 Mounting plate
32 Screw: DIN 6921 (M6SF) M6x12
33 Screw: DIN 6921 (M6SF) M6x14
34 Screw: DIN 6921 (M6SF) M6x16
35 Screw: DIN 7500 M6x16
40 Bracket 2

Check KS800B3 kit



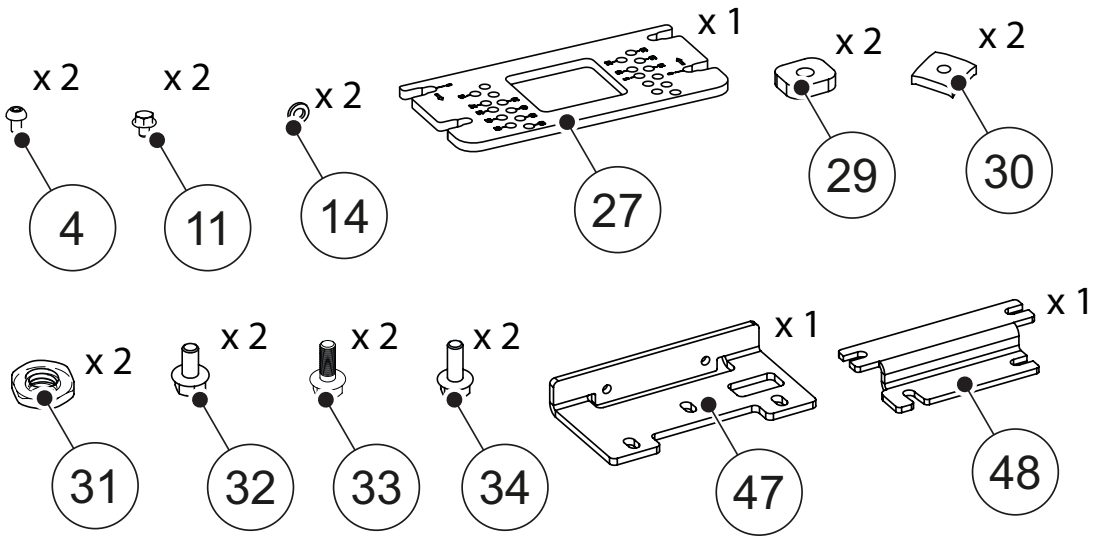
14 Washer: ISO 7089 (BRB) 6.4x12x1.5 FZB
27 Mounting plate
29 Square nut: M6
33 Screw: DIN 6921 (M6SF) M6x14
35 Screw: DIN 7500 M6x16
38 Screw: DIN 7500 M6x35
41 Bracket 3
42 Spacer block
43 Screw: DIN 6921 (M6SF) M6x10

Check KS800B4 kit



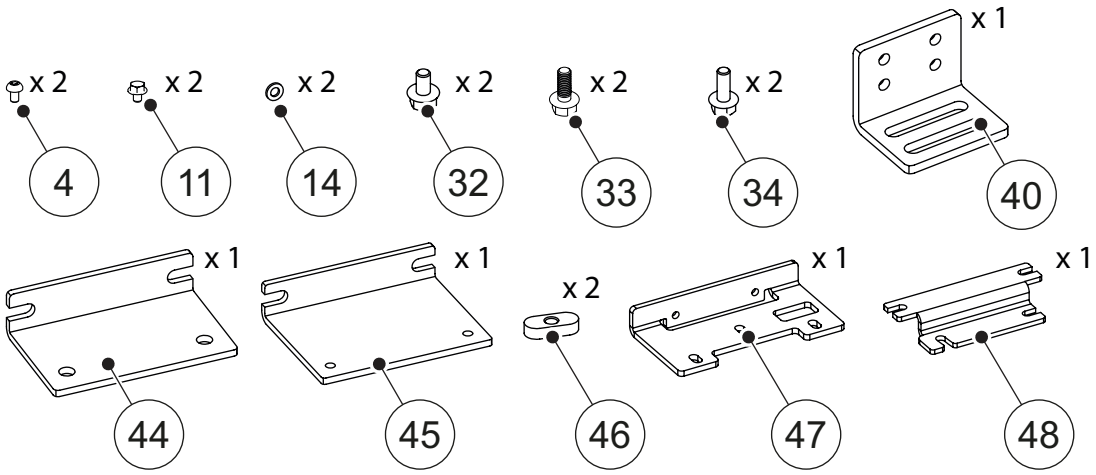
14 Washer: ISO 7089 (BRB) 6.4x12x1.5 FZB
25 Bracket 1
32 Screw: DIN 6921 (M6SF) M6x12
33 Screw: DIN 6921 (M6SF) M6x14
35 Screw: DIN 7500 M6x16
36 Screw: DIN 7500 M6x20
43 Screw: DIN 6921 (M6SF) M6x10
44 Bracket 4
45 Bracket 5
46 Nut: M6

Check belt lock fixing bracket kit KSFB1LOCK



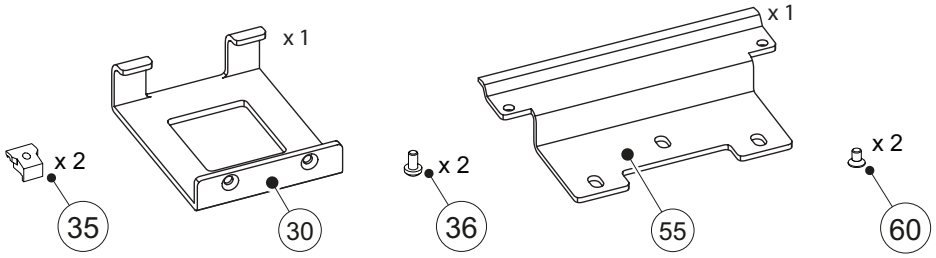
4 Screw: DIN 7500 M6x10
11 Screw: DIN 6921 (M6SF) M6x8
14 Washer: ISO 7089 (BRB) 6.4x12x1.5 FZB
27 Mounting plate
29 Square nut: M6
30 Nut: M6
31 Nut: ISO 4035 (ML6M) M6 FZB
32 Screw: DIN 6921 (M6SF) M6x12
33 Screw: DIN 6921 (M6SF) M6x14
34 Screw: DIN 6921 (M6SF) M6x16
47 Fixing bracket
48 Mounting bracket

Check belt lock fixing bracket kit KSFB2LOCK



4 Screw: DIN 7500 M6x10
11 Screw: DIN 6921 (M6SF) M6x8
14 Washer: ISO 7089 (BRB) 6.4x12x1.5 FZB
33 Screw: DIN 6921 (M6SF) M6x14
34 Screw: DIN 6921 (M6SF) M6x16
40 Bracket 2
43 Screw: DIN 6921 (M6SF) M6x10
44 Bracket 4
45 Bracket 5
46 Nut: M6
47 Fixing bracket
48 Mounting bracket

Check belt lock fixing bracket kit KSFB3LOCK



35 Nut: M5

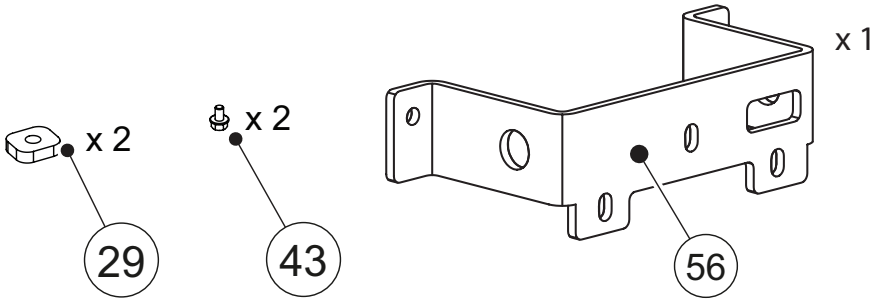
30 Belt guide

36 Screw: DIN 7500 M5x10

55 Fixing bracket (belt lock) TORMAX iMotion 2202

60 Screw: ISO 7046 (MFTS) M3x5

Check belt lock fixing bracket kit KSFB4LOCK



29 Square nut: M6

43 Screw: DIN 6921 (M6SF) M6x10

56 Fixing bracket (belt lock) GEZE Slimdrive SL NT

4.1.2 The IOU (KS902MP) and the battery (KS902BAT2) installation

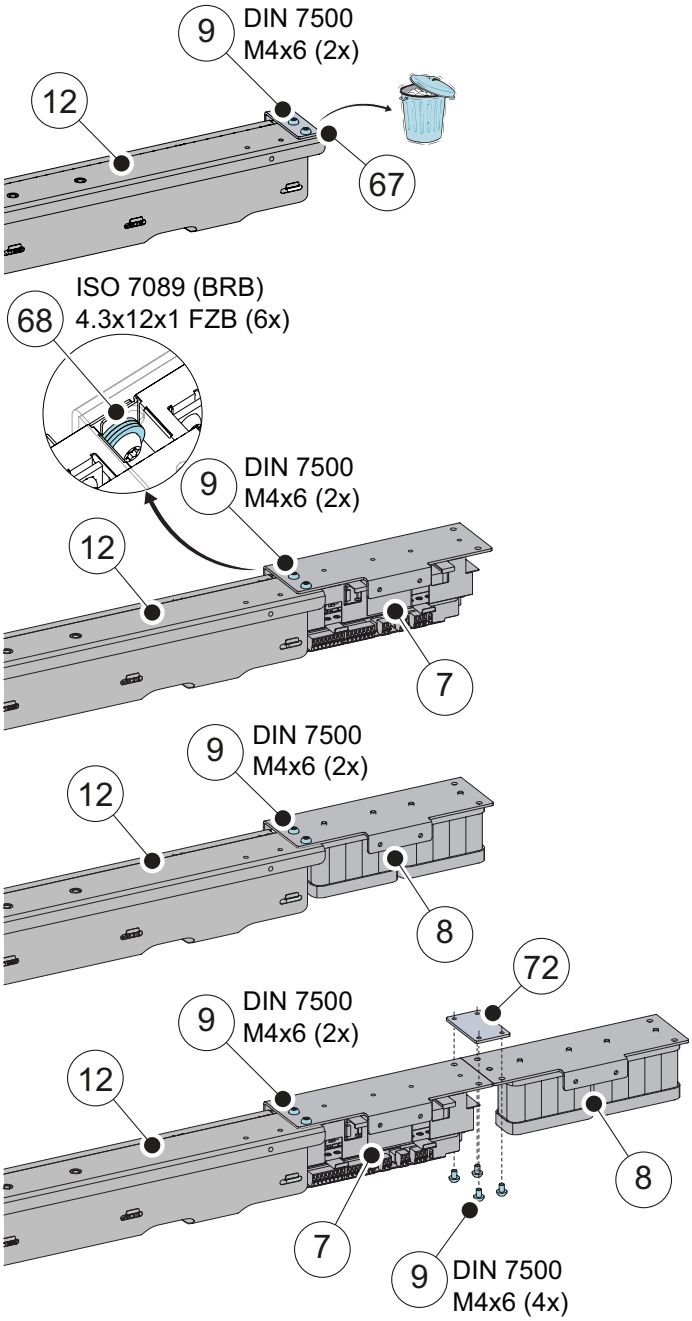
Note! Select IOU when using bi-stable lock.

Remove the L bracket (67) from the backbone assembly (12), keep the screws (9).

Fix the IOU (7) to the backbone assembly (12) with the screws (9). Fasten the MCU and IOU (7) with the same screw (68).

If there is no IOU fix the battery (8) to the backbone assembly (12) with the screws (9).

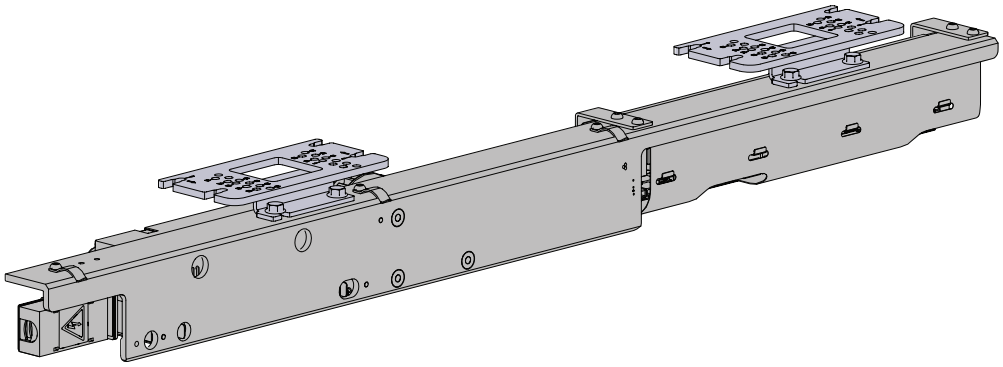
If there is an IOU (7) use connecting bracket (72) to fix the battery (8) to the IOU (7) with the screws (9).



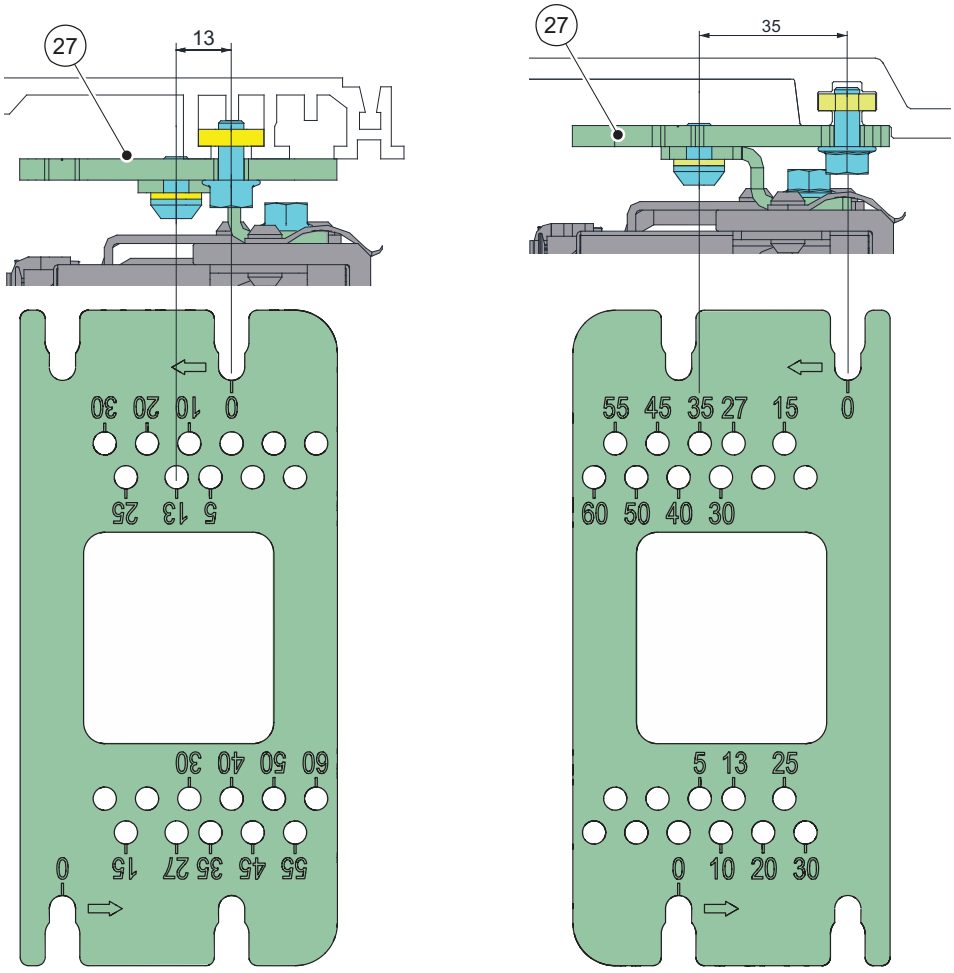
7	IOU (KS902MP)	67	L bracket
8	Battery (KS902BAT2)	68	Washer
9	Screw	72	Connecting bracket
12	Backbone assembly		

4.1.3 Fix the brackets to the backbone assembly

The brackets in the picture is only an example, please choose the suitable brackets for the specified operator.

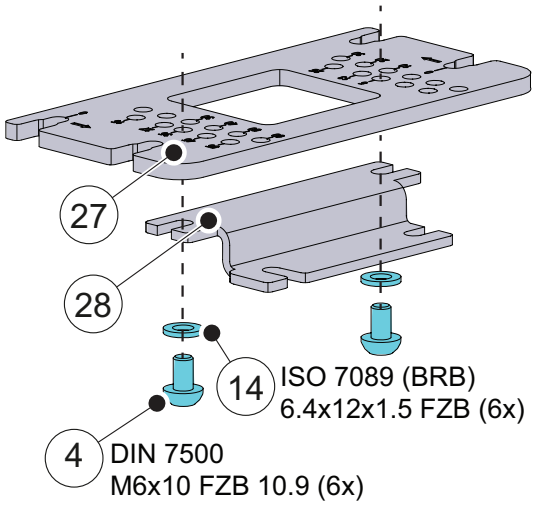


a How to install the mounting plate. Please refer to the dimension on the surface of mounting plate (27) firstly. For measurement see drawing to respectively operator.



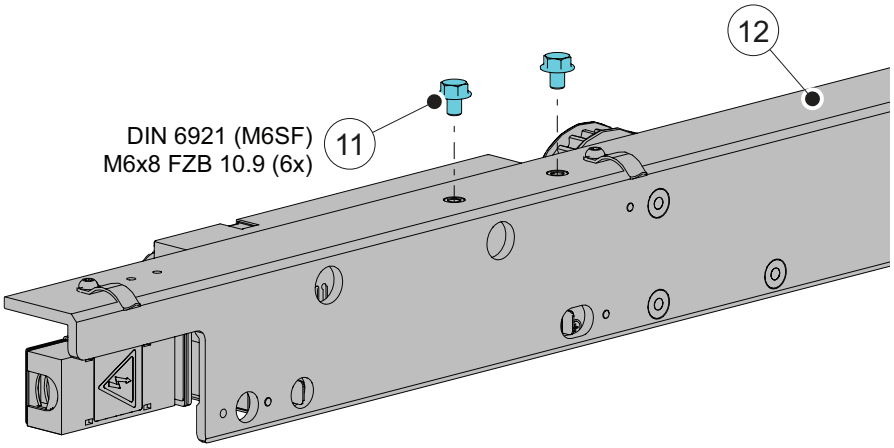
27 Mounting plate

b Assemble the mounting plate (27) and mounting bracket (28) with the washers (14) and screws (4).



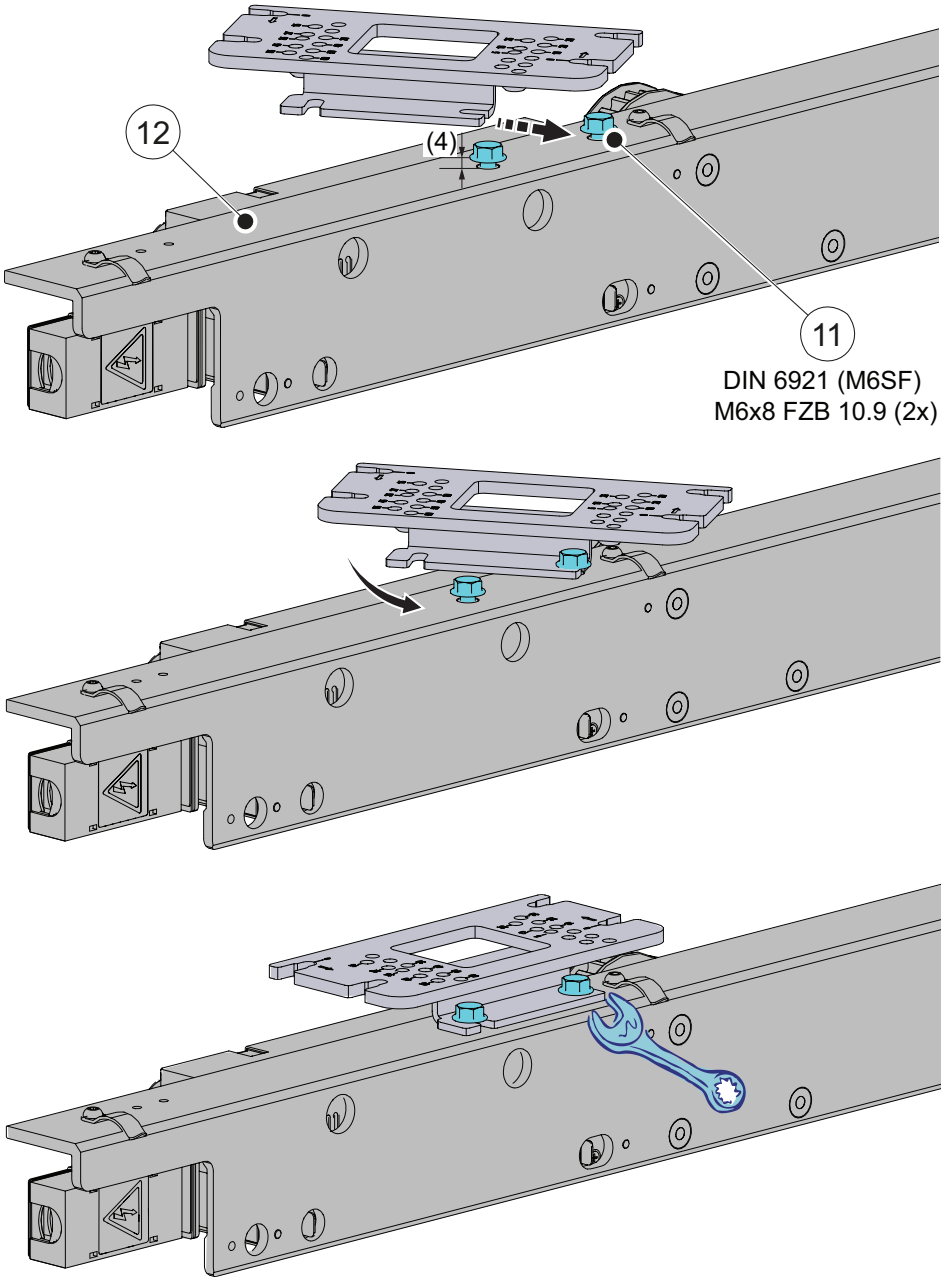
4	Screw	27	Mounting plate
14	Washer	28	Mounting bracket

c Fix two screws (11) to the backbone assembly (12), don't tighten the screws (11).



		11	Screw
		12	Backbone assembly

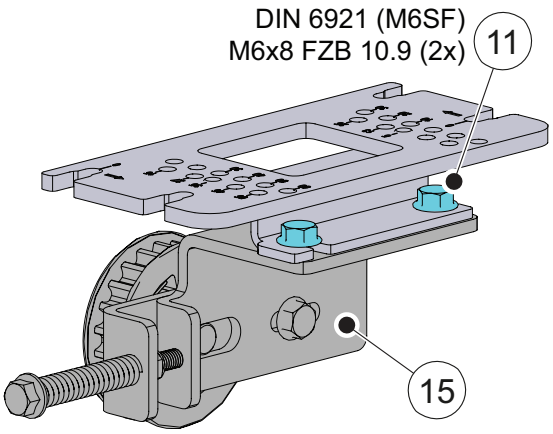
d Fix the brackets to the backbone assembly (12), then tighten the screws (11) with **a torque of 8 Nm**.



11 Screw
12 Backbone assembly

4.1.4 Fix the brackets to the tension wheel

Fix the brackets to the tension wheel assembly (15) in the same way as 4.1.3 .



11 Screw

15 Tension wheel assembly

4.1.5 Checking and adjusting the belt tension

a Loosen the fixing screw (52) without removing it.

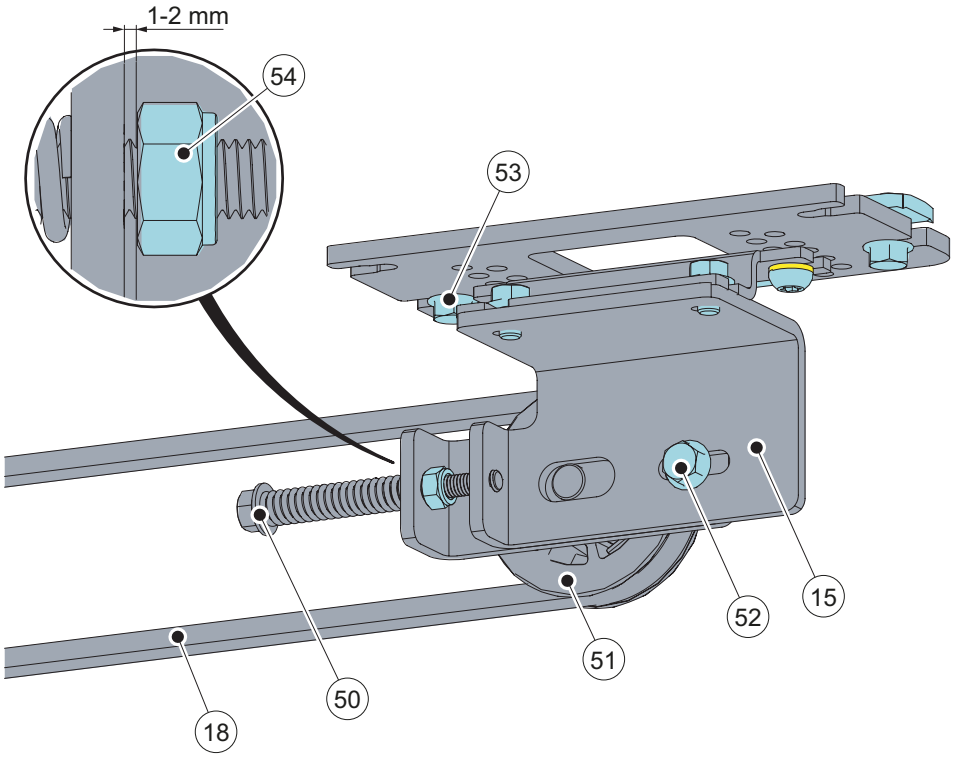
b Screw the adjustment screw (50) to its outmost position.

c Tension the tooth belt (49) by pulling the tension wheel assembly (15) by hand. Tighten the screws (53) with a **torque of 10 Nm**.

d Tighten the adjustment screw (50) until there is a gap of approx. 1-2 mm between the lock nut (54) and the bracket according to illustration below, but not further. Be sure not to overtighten, otherwise the adjustment screw (50) might damage the tension wheel (51).

e Retighten the fixing screw (52) with a **torque of 10 Nm**.

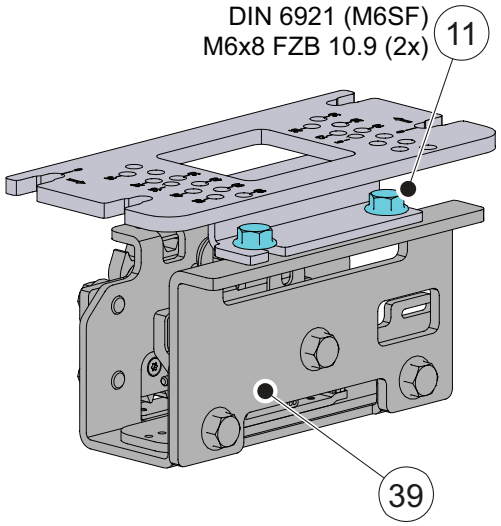
Note! Do not make any adjustment on the lock nut (54).



15 Tension wheel assembly
18 Tooth belt
50 Adjustment screw
51 Tension wheel
52 Fixing screw
53 Screws
54 Lock nut

4.1.6 Fix the brackets to the belt lock (option)

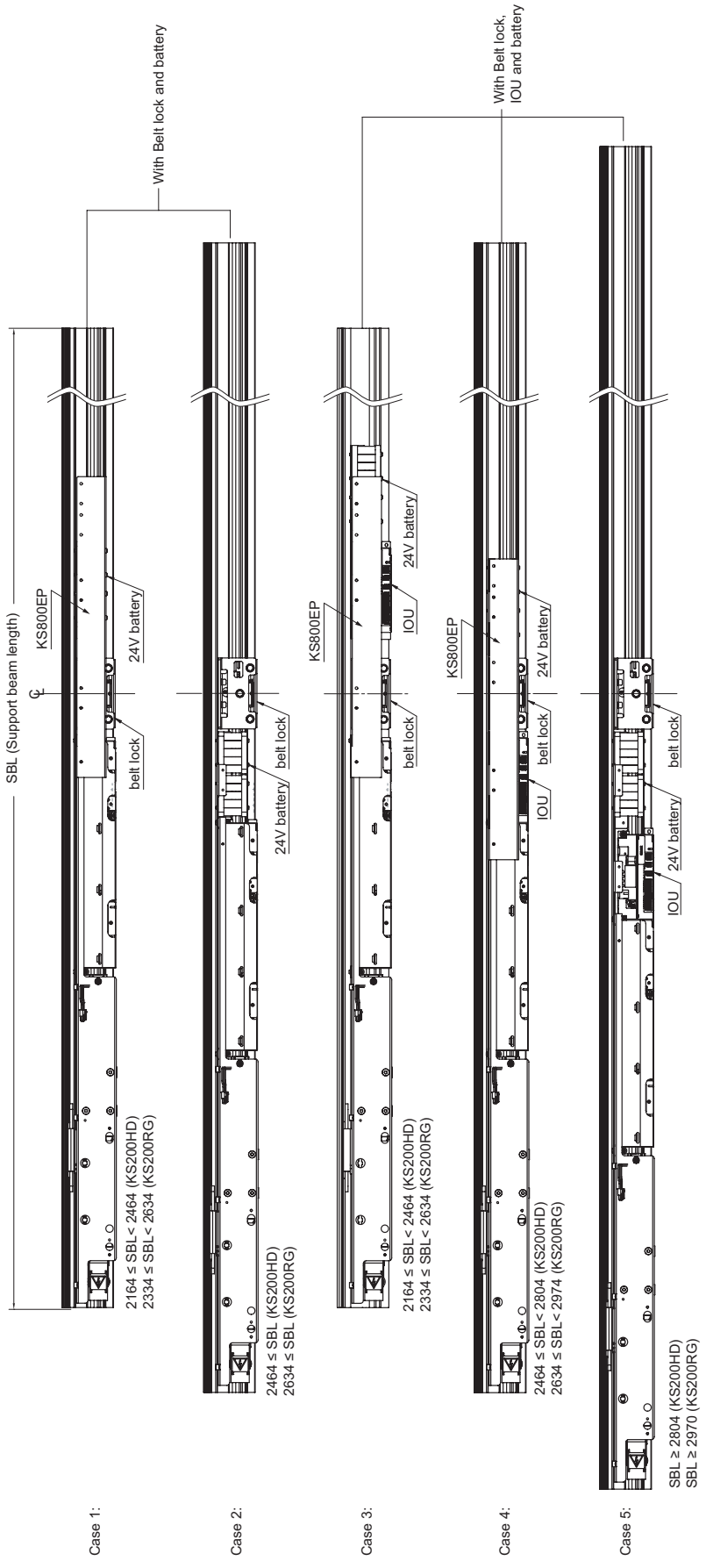
Fix the brackets to the belt lock (39) in the same way as 4.1.3.



11 Screw
39 Belt lock

Limited SBL (support beam length) for belt lock

Bi-parting door (the belt lock is installed in the middle)



Case 1/3/4: Need to order the extension plate kit (Article: KS800EP), please refer to the installtion on page 27.
Case 3: Need to order the extension cable for IOU (Article: DAS800CMP).

Note! For the single opening right door, the belt lock is installed on the right side close to the backbone.

Bi-parting door (the belt lock is installed on the right side of the beam)

Note! Please refer to belt lock installation drawing (1019443).

2100 mm ≤ SBL ≤ 2164 mm (KS200HD)

2270 mm ≤ SBL ≤ 2334 mm (KS200RG)

Opening right door

Note! Belt lock is installed on the right side of the beam for following SBL. Please refer to belt lock installation drawing (1019443).

SBL < 2100 mm (KS200HD)

SBL < 2300 mm (KS200RG)

Opening left door

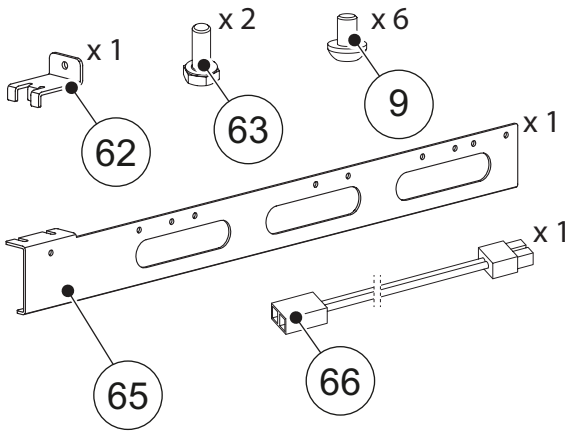
Note! Please refer to belt lock installation drawing (1019443).

No limitations.

4.1.7 Fix the extension plate kit

Note! The Extension plate is only needed when a belt lock shall be fitted in a door with small COW.

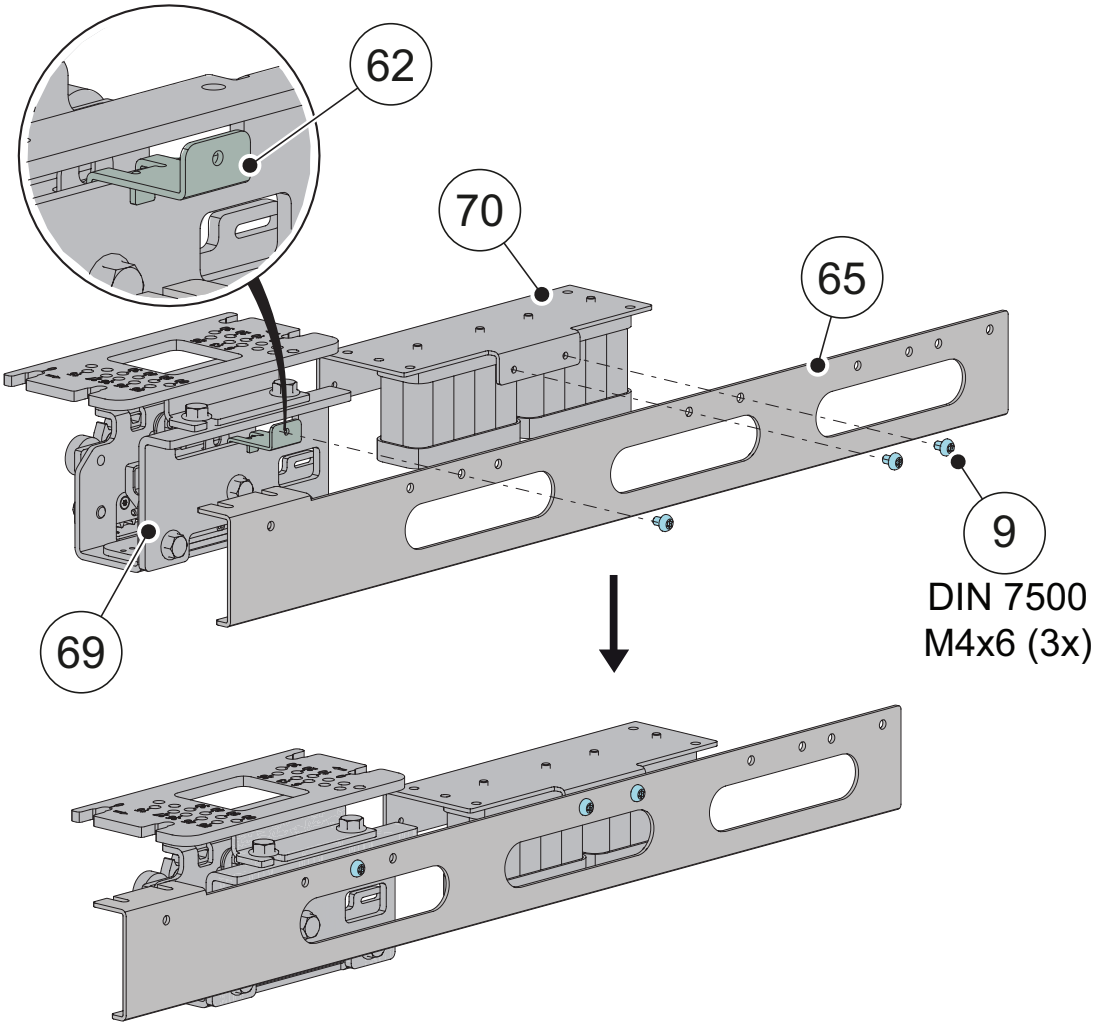
Check the components



9 Screw: DIN 7500 M4x6
62 Holding bracket
63 Screw: ISO 4014 (M6S) M4x10
65 Extension plate
66 Wiring harness

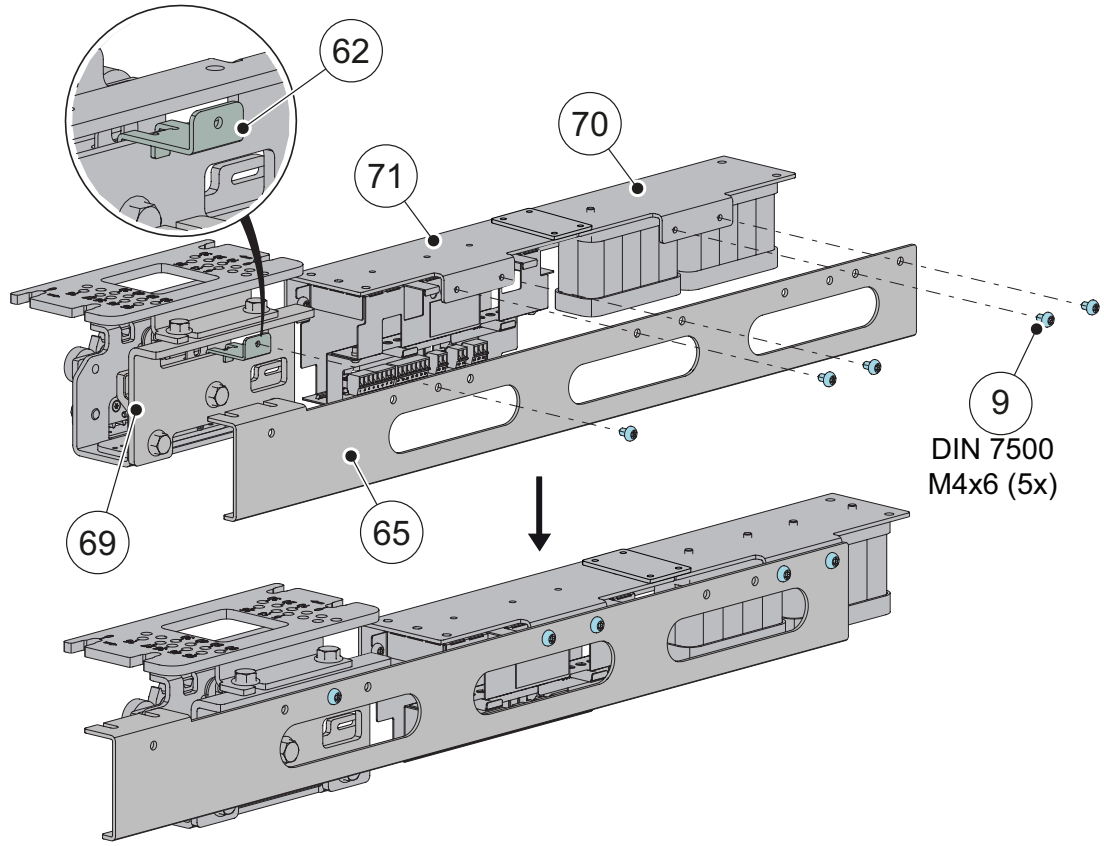
Fix IOU, battery and belt lock to extension plate

Case 1



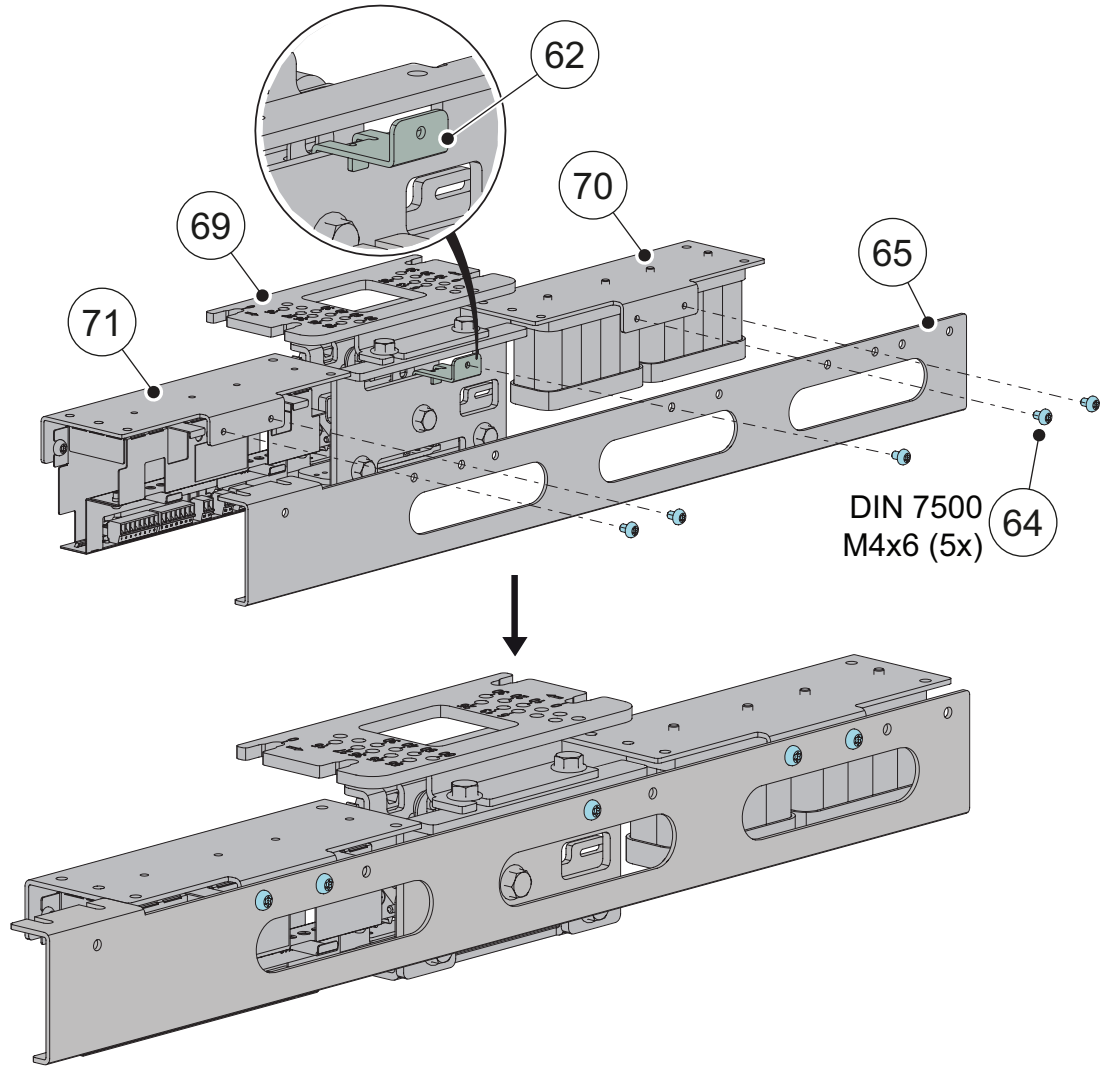
9	Screw	69	Belt lock
62	Holding bracket	70	Battery
65	Extension plate		

Case 3



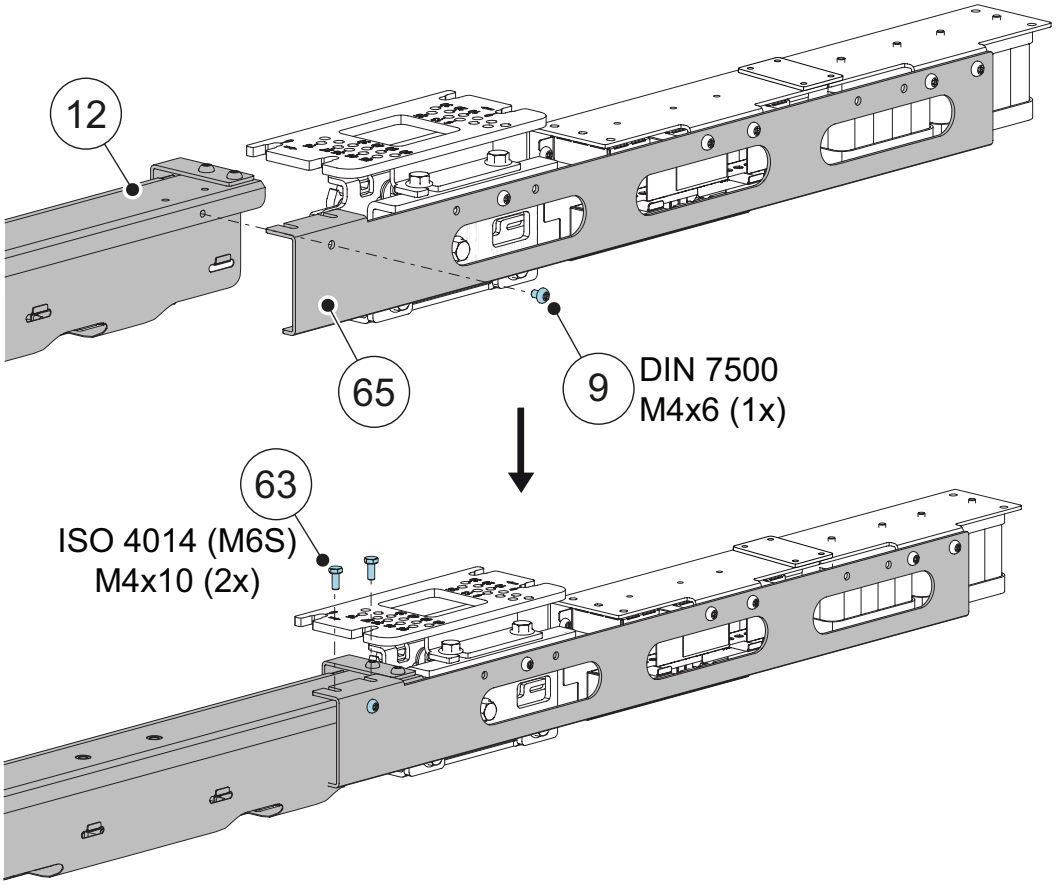
9	Screw	69	Belt lock
62	Holding bracket	70	Battery
65	Extension plate	71	IOU

Case 4



9	Screw	69	Belt lock
62	Holding bracket	70	Battery
65	Extension plate	71	IOU

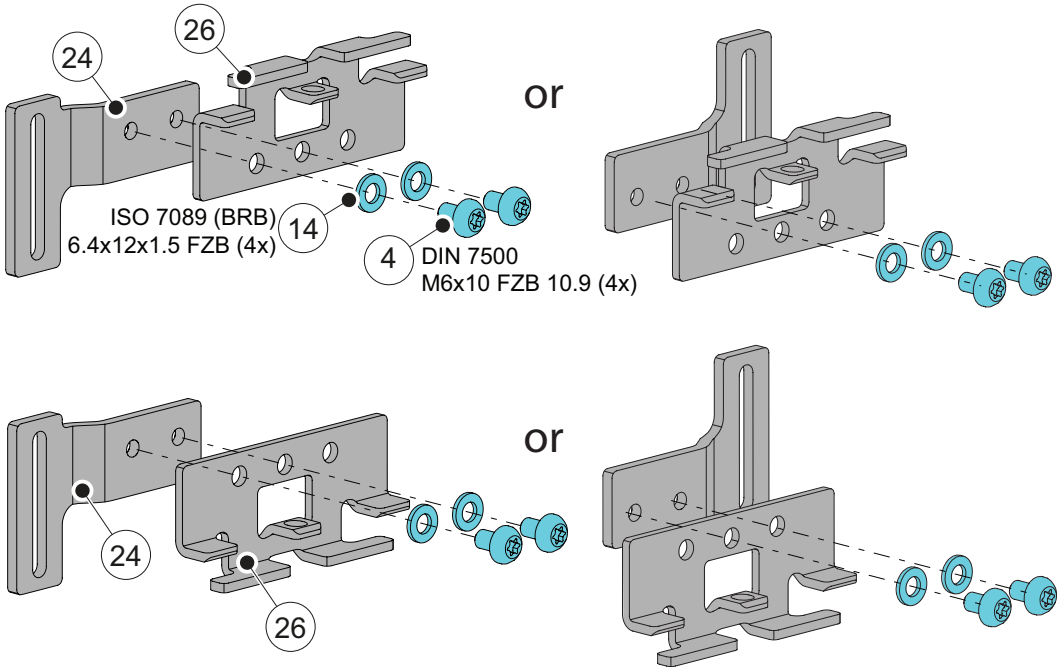
Install the extension plate kit to the backbone



9 Screw
12 Backbone assembly
63 Screw
65 Extension plate

4.1.8 Fix the transmission bracket to the connecting bracket

a Fix the transmission bracket (26) to the connecting bracket (24) with the screws (4) and washers (14).



4 Screw
14 Washer
24 Connecting bracket
26 Transmission bracket

4.1.9 Attachment of slack reducer

Attach the slack reducer between the eighth and ninth belt tooth on each side of the low transmission bracket. If two slack reducers are needed put the second slack reducer in the same way under the upper transmissions bracket.

Note! Slack reducer not needed if belt lock equipped.

Single doors

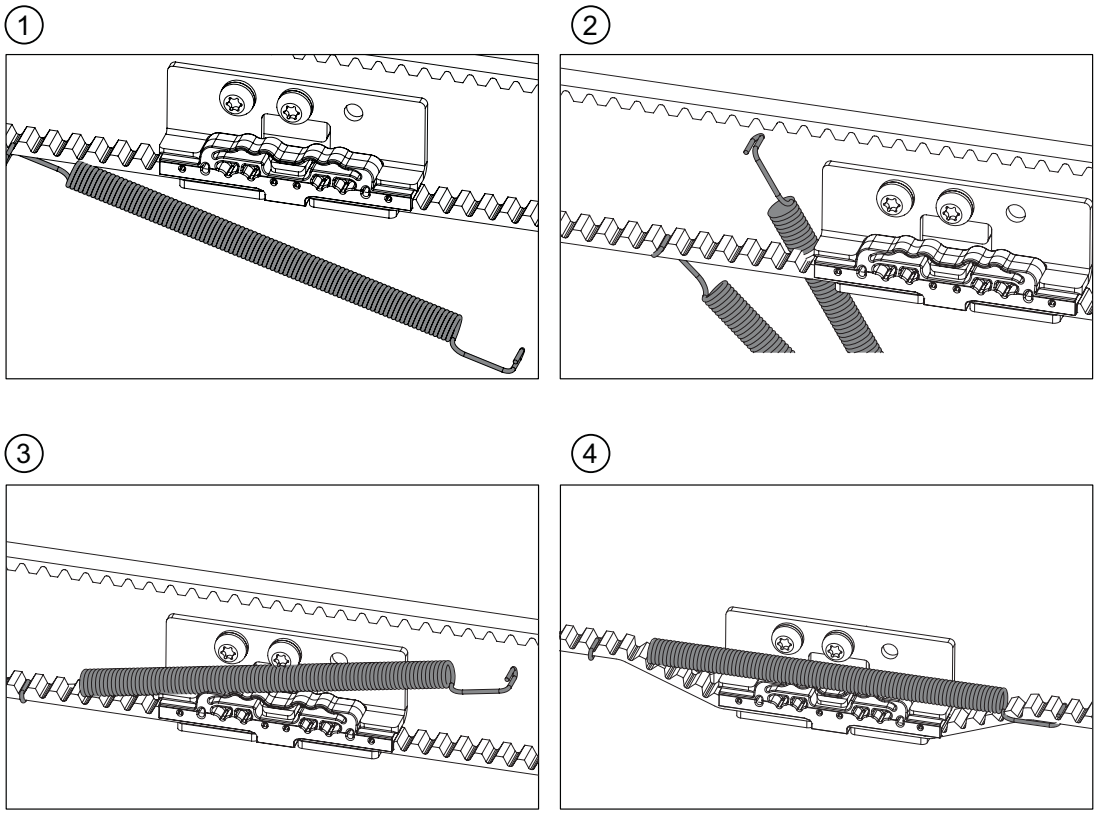
If the belt length is more than 4700 mm, there shall be one slack reducer.

Double doors

If the belt length is more than 5700 mm, there shall be two slack reducers.

In all other cases

In all other cases, then above, there will not be any slack reducers in the operator.



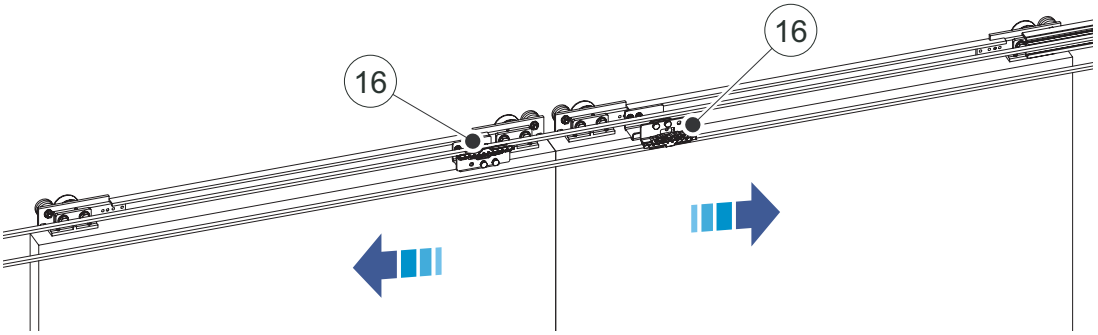
4.1.10 General rules of the installation

Position of the belt connecting to the transmission brackets.

Bi-parting opening

The transmission bracket (16) on the left door leaf shall be connected to the **upper** belt.

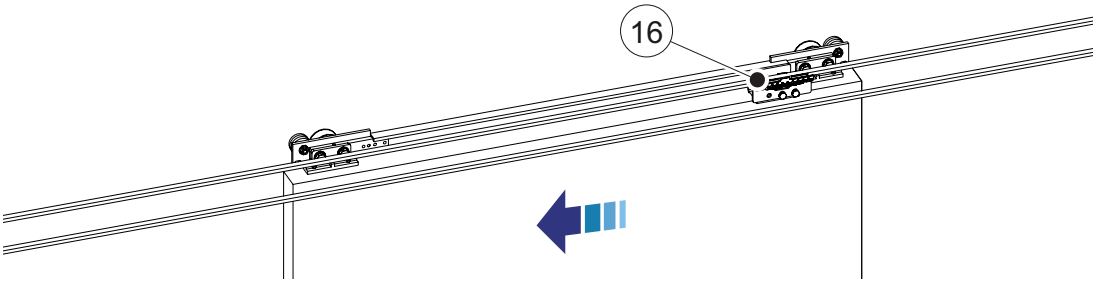
The transmission bracket (16) on the right door leaf shall be connected to the **lower** belt.



16 Transmission bracket

Single left opening

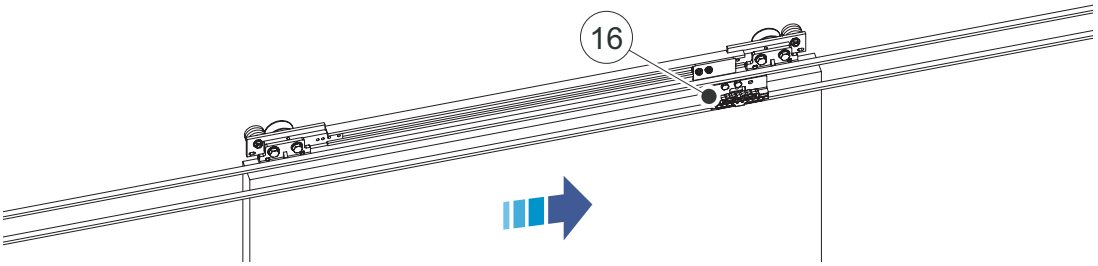
The transmission bracket (16) shall be connected to the **upper** belt.



16 Transmission bracket

Single right opening

The transmission bracket (16) shall be connected to the **lower** belt.



16 Transmission bracket

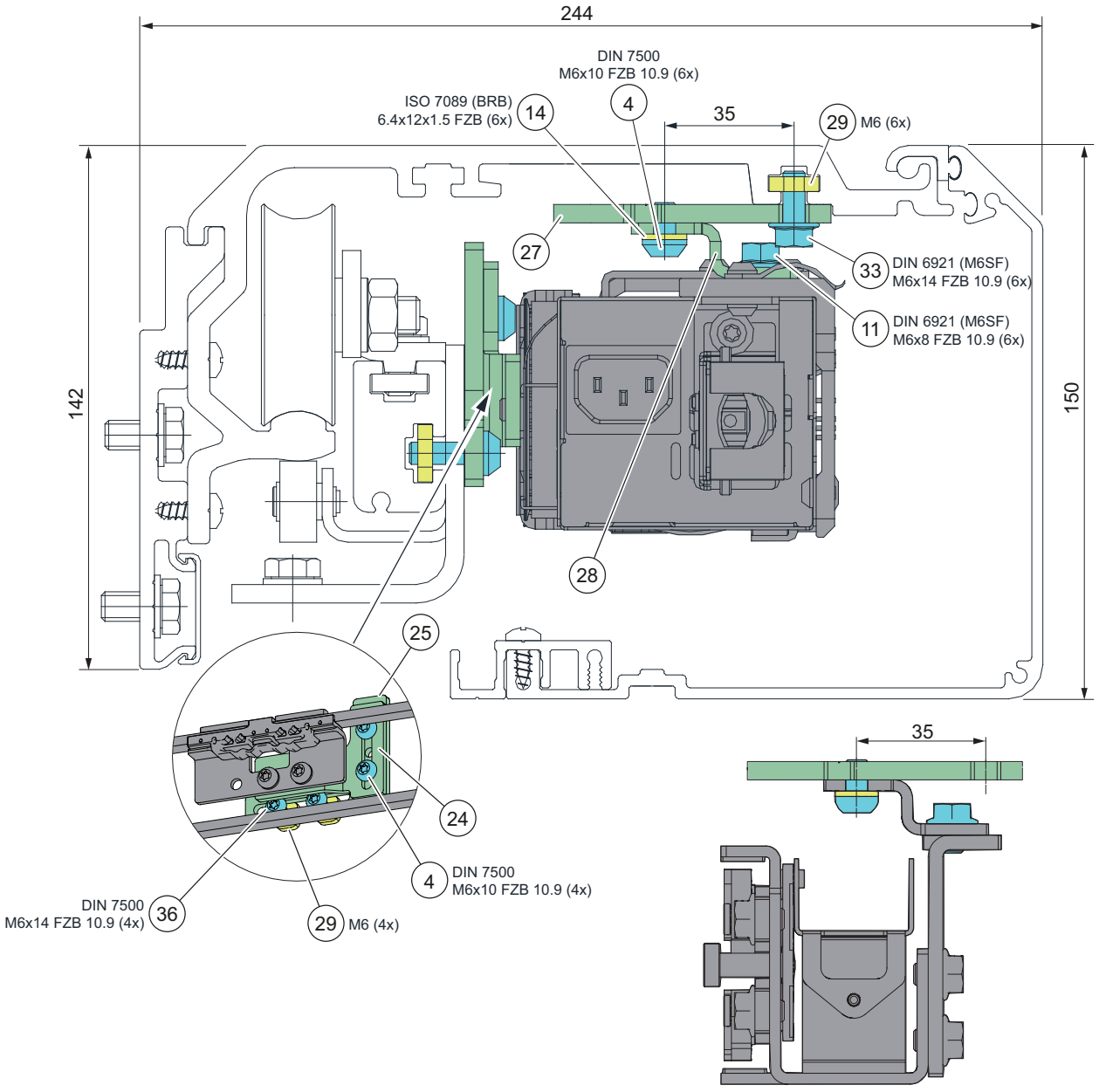
For electrical connection, start up and parameter setting, please refer to DAS200 Installation Manual using the following QR code.

https://www.ditecentrematic.com/Entrematic/ditecentrematicCOM/QR/Multilanguages/DAS200/DitecDAS200.pdf

4.1.11 Adapted door types

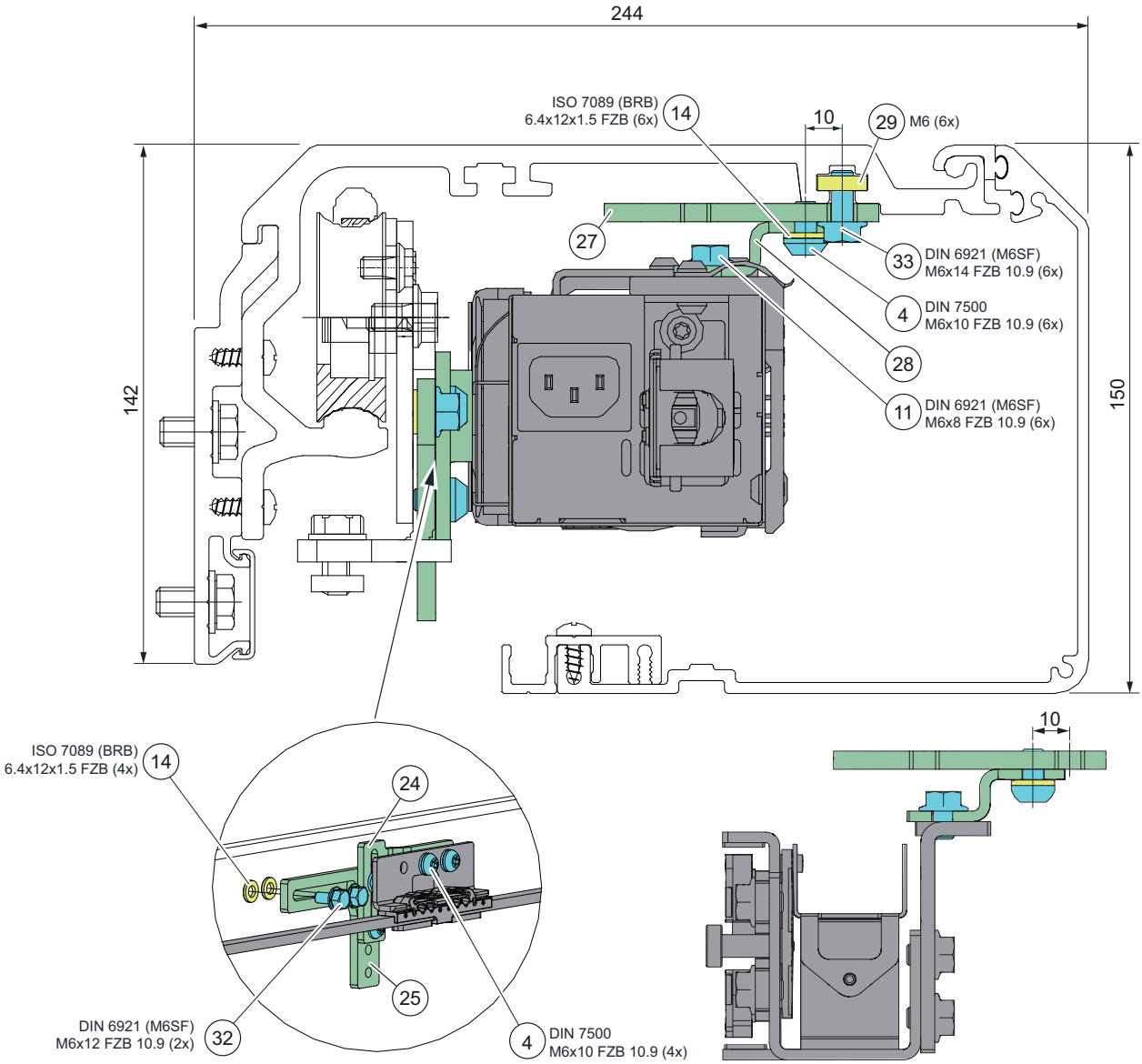
Note! Original nuts and bolts can be reused.

ATS CLIXMASTER (Altr.1)



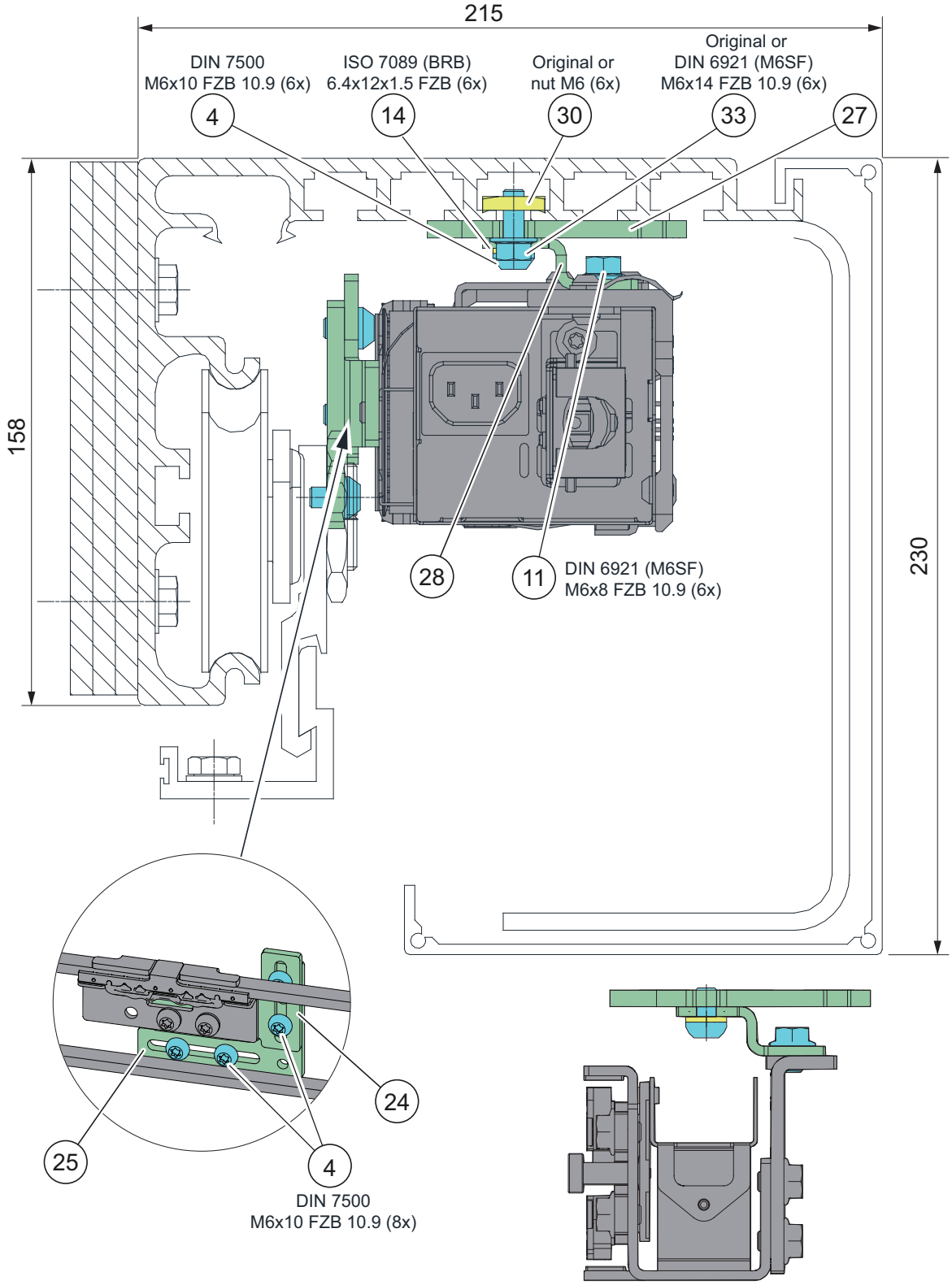
4	Screw	27	Mounting plate
11	Screw	28	Mounting bracket
14	Washer	29	Nut
24	Connecting bracket	36	Screw
25	Bracket 1		

ATS CLIXMASTER (Altr.2)



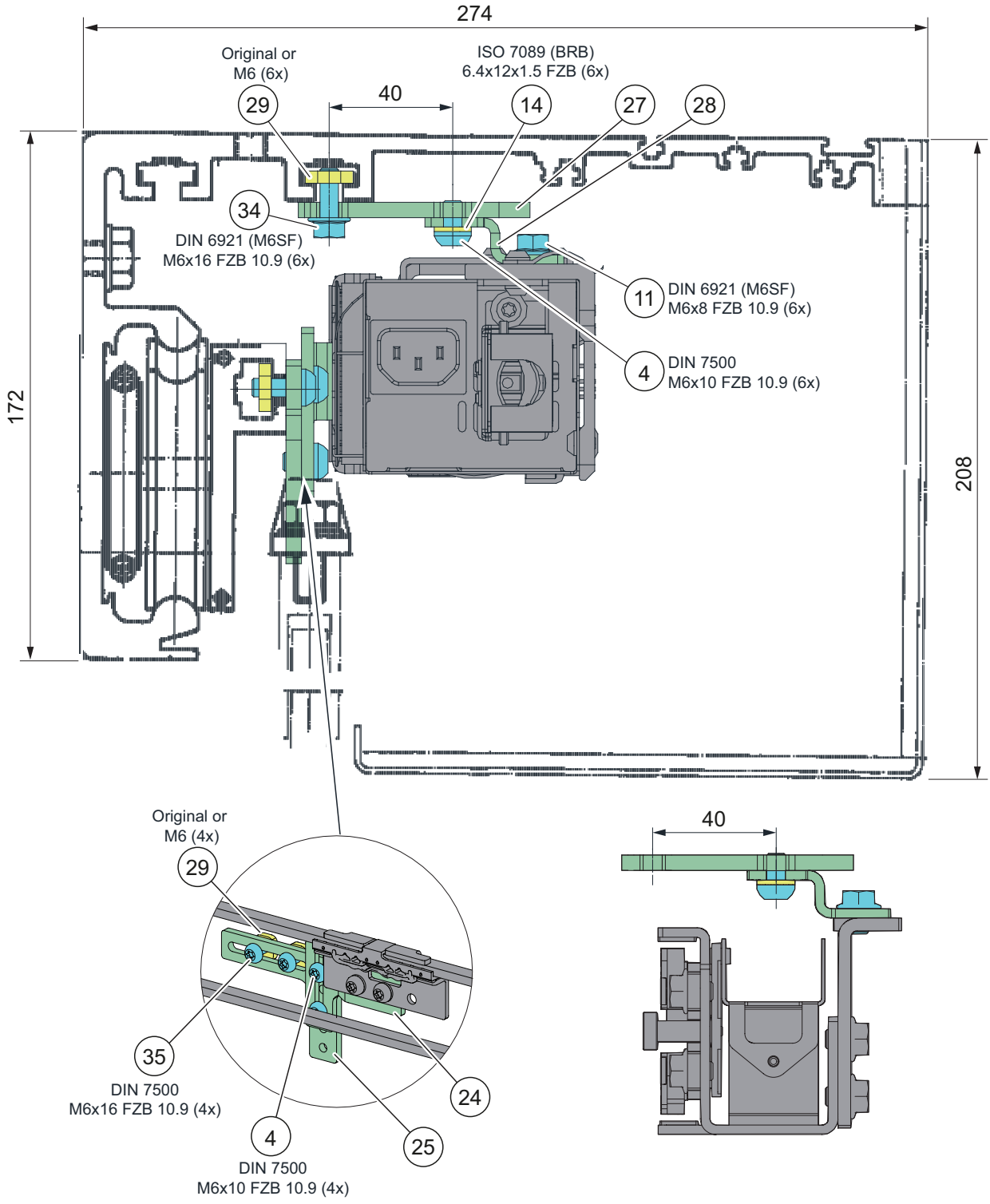
4 Screw
11 Screw
14 Washer
24 Connecting bracket
25 Bracket 1
27 Mounting plate
28 Mounting bracket
29 Nut
32 Screw
33 Screw

ATS TSF 2100



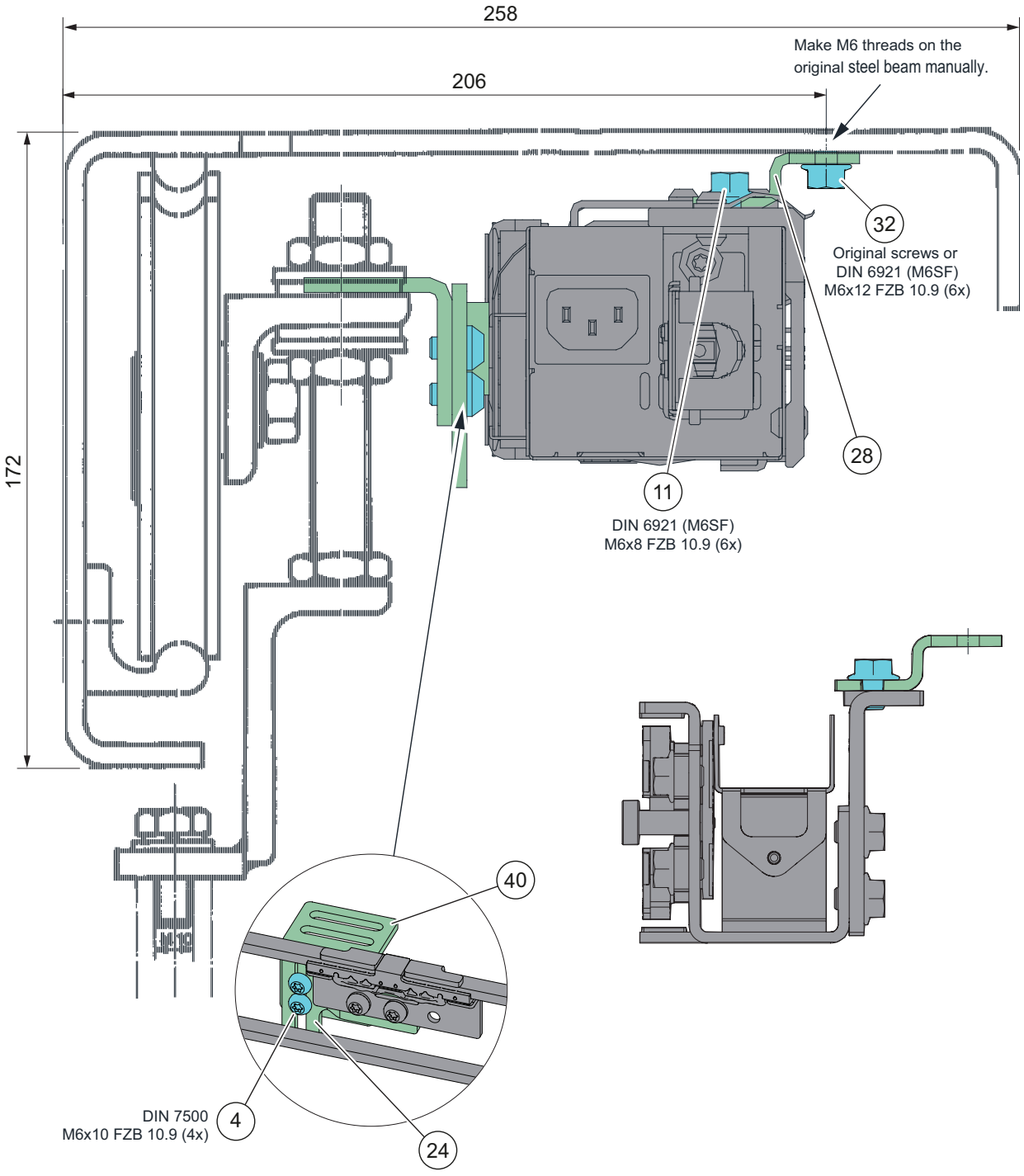
4 Screw
11 Screw
14 Washer
24 Connecting bracket
25 Bracket 1
27 Mounting plate
28 Mounting bracket
30 Nut
33 Screw

Baumgartner Al-Profil



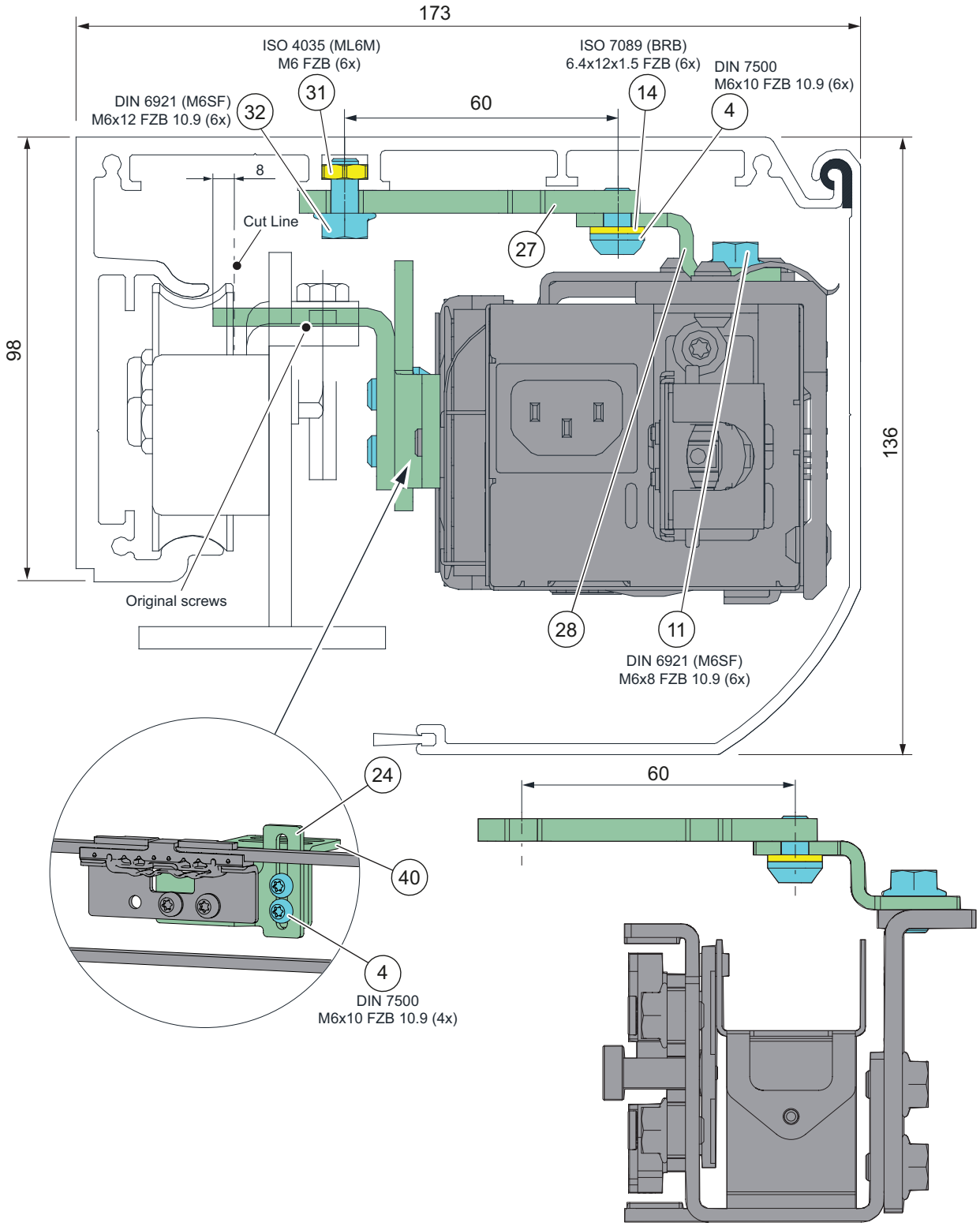
4	Screw	27	Mounting plate
11	Screw	28	Mounting bracket
14	Washer	29	Square nut
24	Connecting bracket	34	Screw
25	Bracket 1	35	Screw

Baumgartner steel



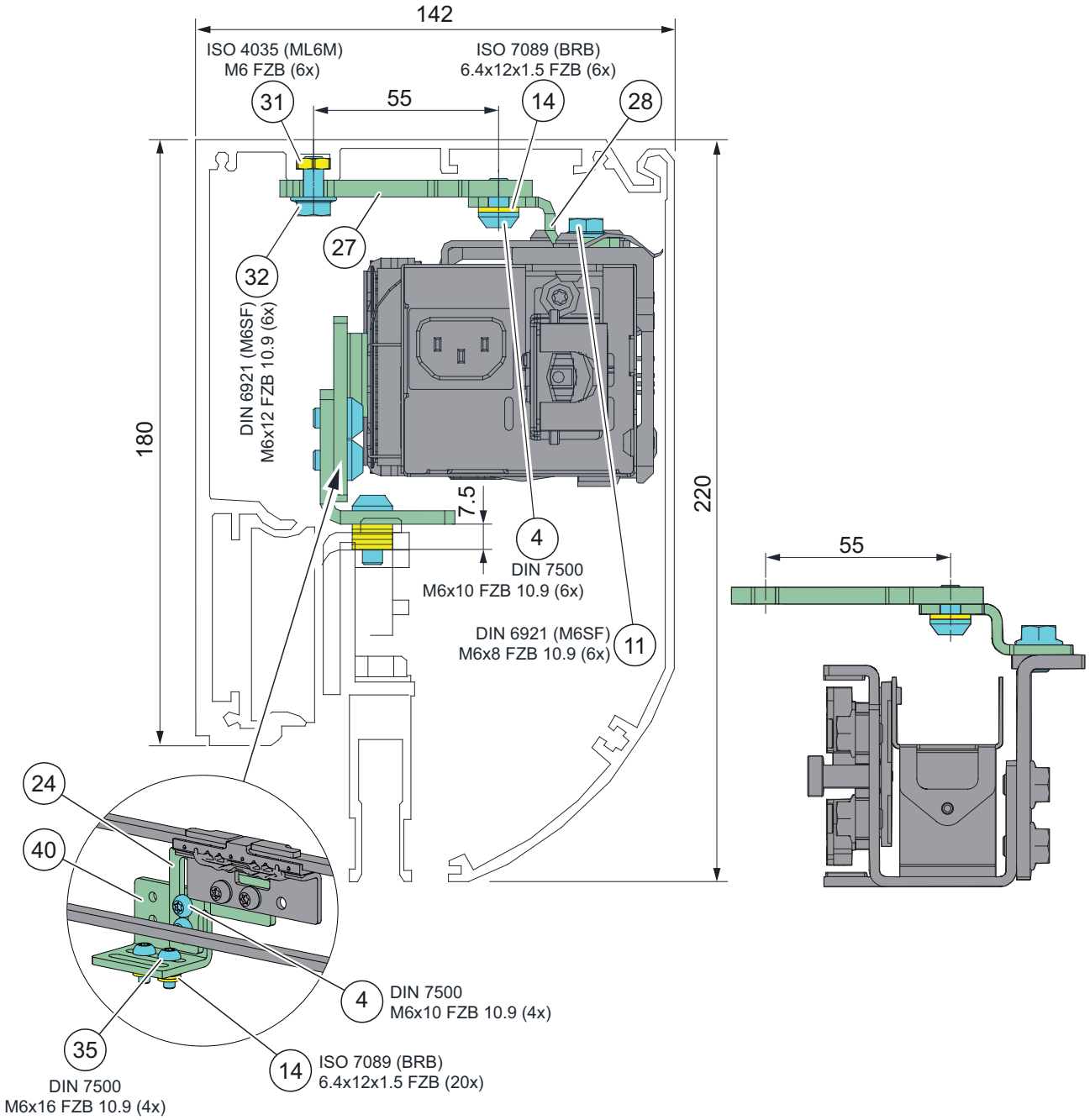
4 Screw
11 Screw
24 Connecting bracket
28 Mounting bracket
32 Screw
40 Bracket 2

Ditec Bis O



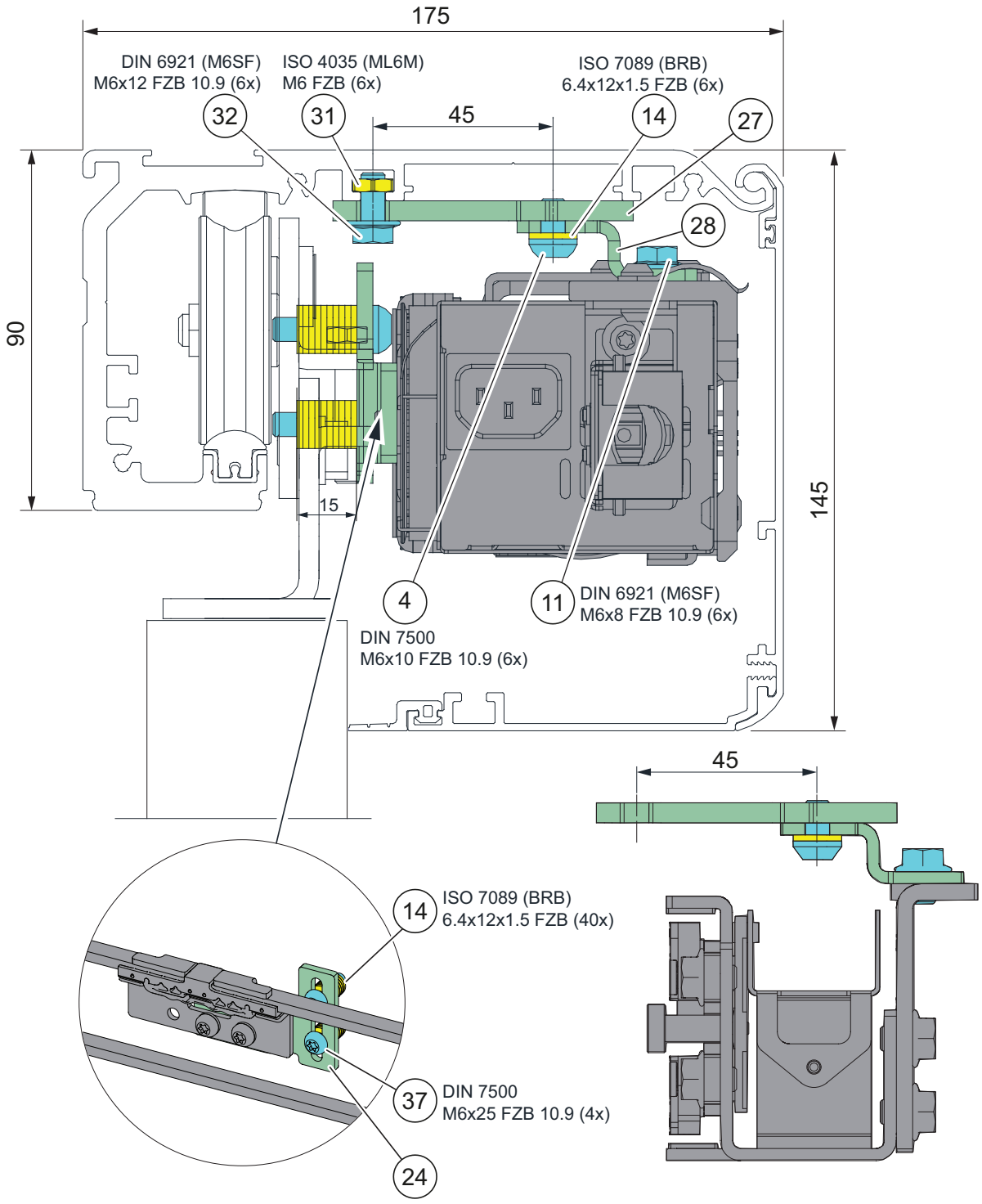
4	Screw	28	Mounting bracket
11	Screw	31	Nut
14	Washer	32	Screw
24	Connecting bracket	40	Bracket 2
27	Mounting plate		

Ditec Bis V



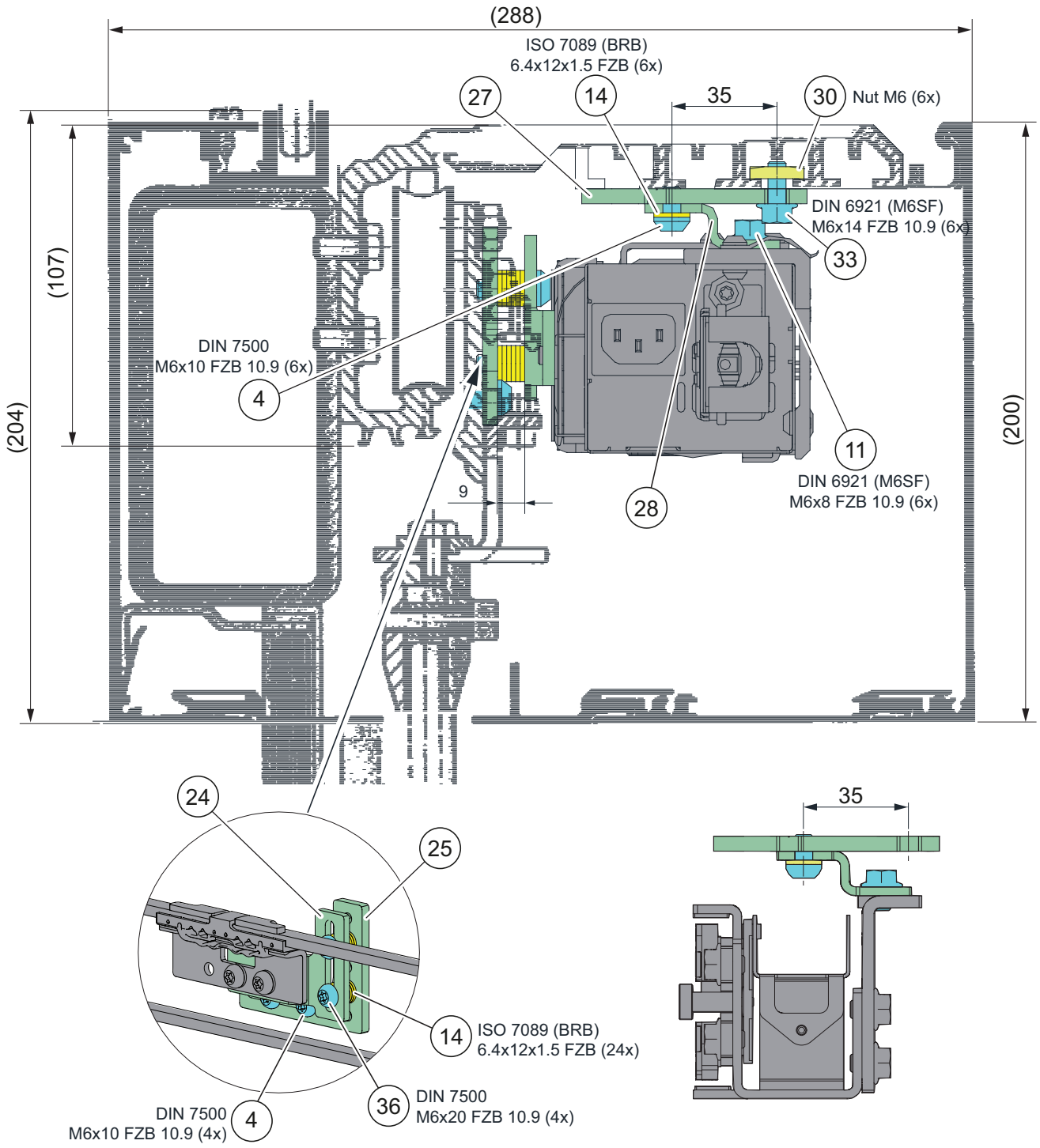
4	Screw	28	Mounting bracket
11	Screw	31	Nut
14	Washer	32	Screw
24	Connecting bracket	35	Screw
27	Mounting plate	40	Bracket 2

Ditec VALOR / VALOR R



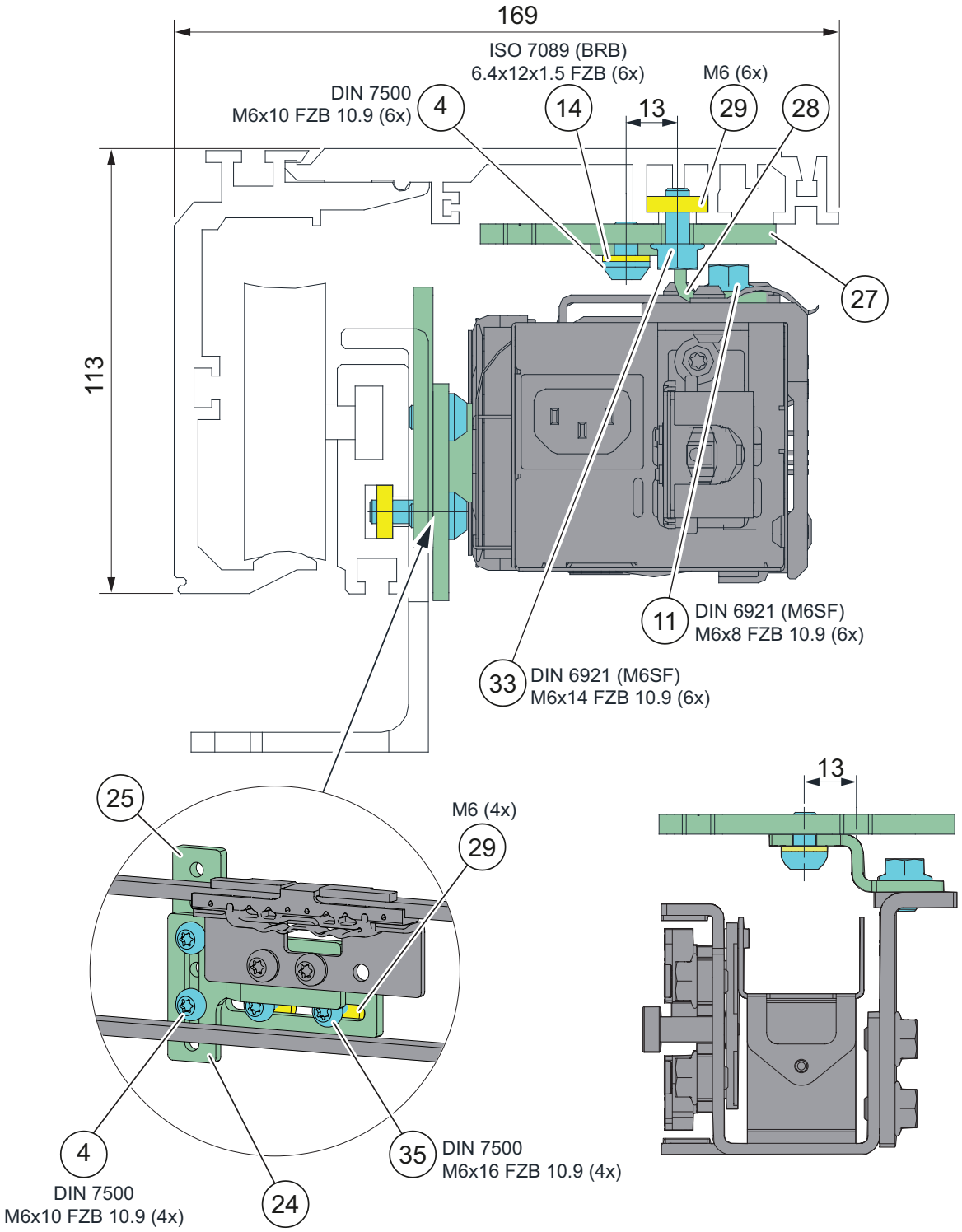
4	Screw	28	Mounting bracket
11	Screw	31	Nut
14	Washer	32	Screw
24	Connecting bracket	37	Screw
27	Mounting plate		

DORMA ES 50



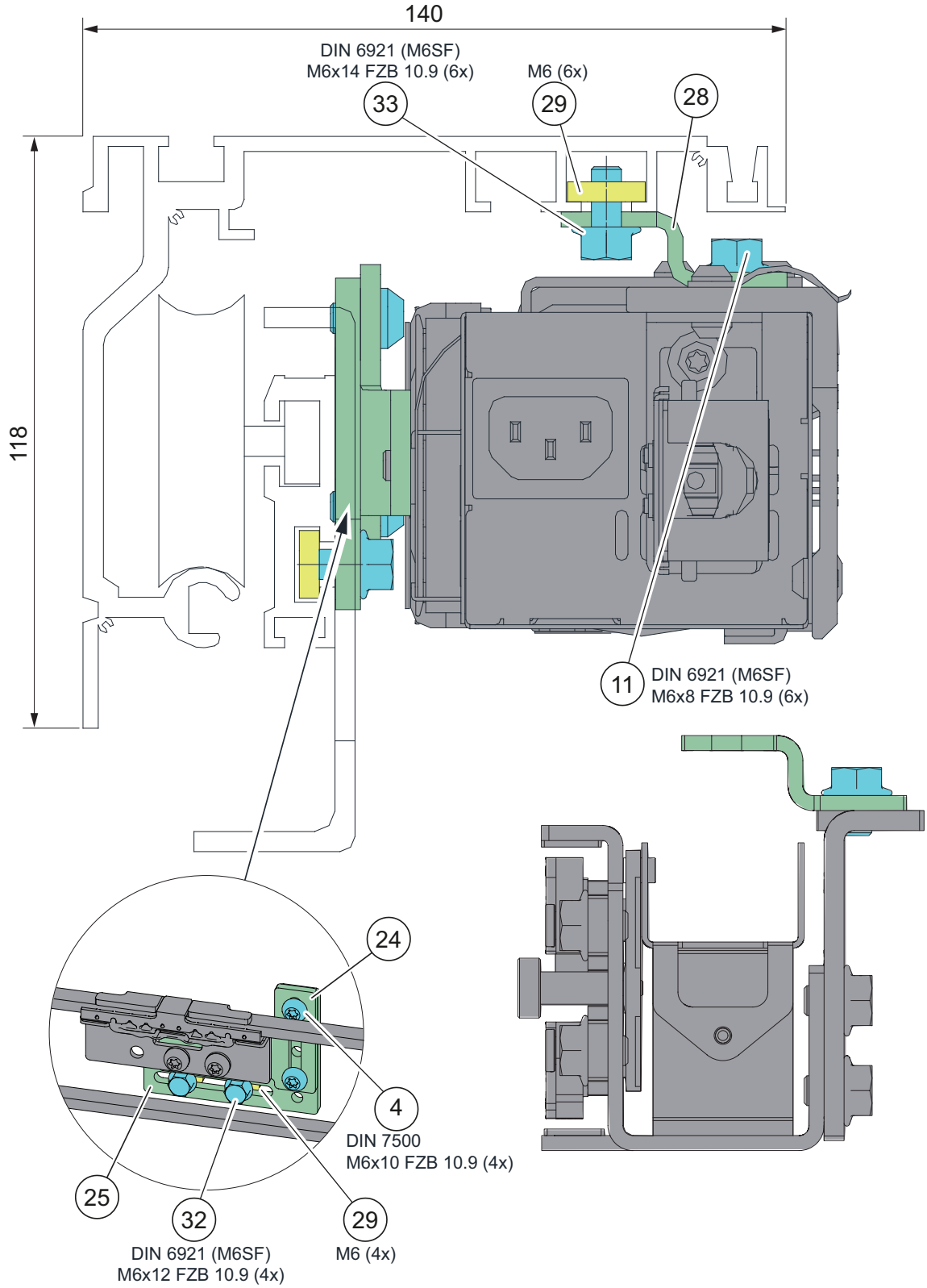
4 Screw
11 Screw
14 Washer
24 Connecting bracket
25 Bracket 1
27 Mounting plate
28 Mounting bracket
30 Nut
33 Screw
36 Screw

DORMA ES 55/60



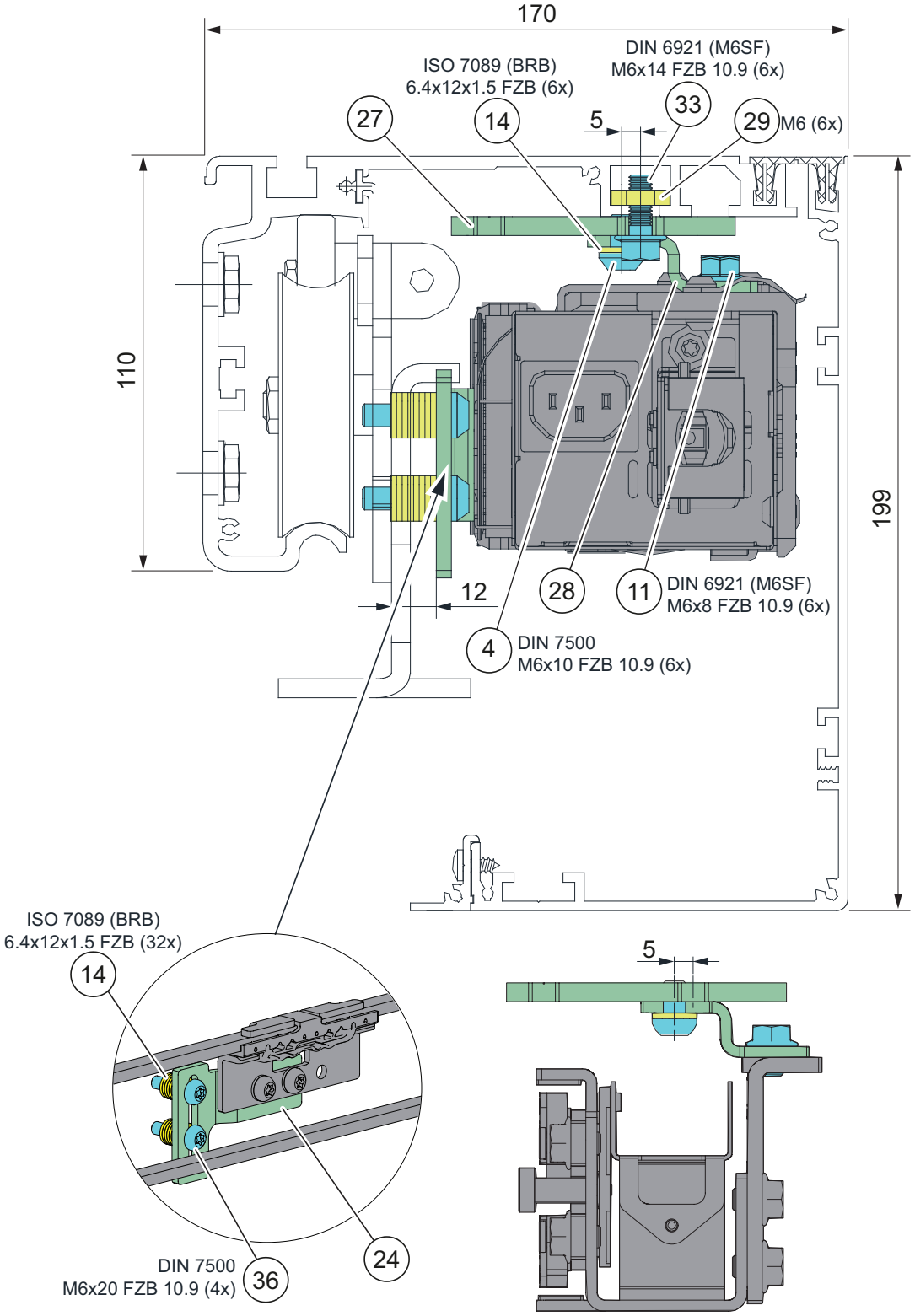
4	Screw	27	Mounting plate
11	Screw	28	Mounting bracket
14	Washer	29	Square nut
24	Connecting bracket	33	Screw
25	Bracket 1	35	Screw

DORMA ES 70



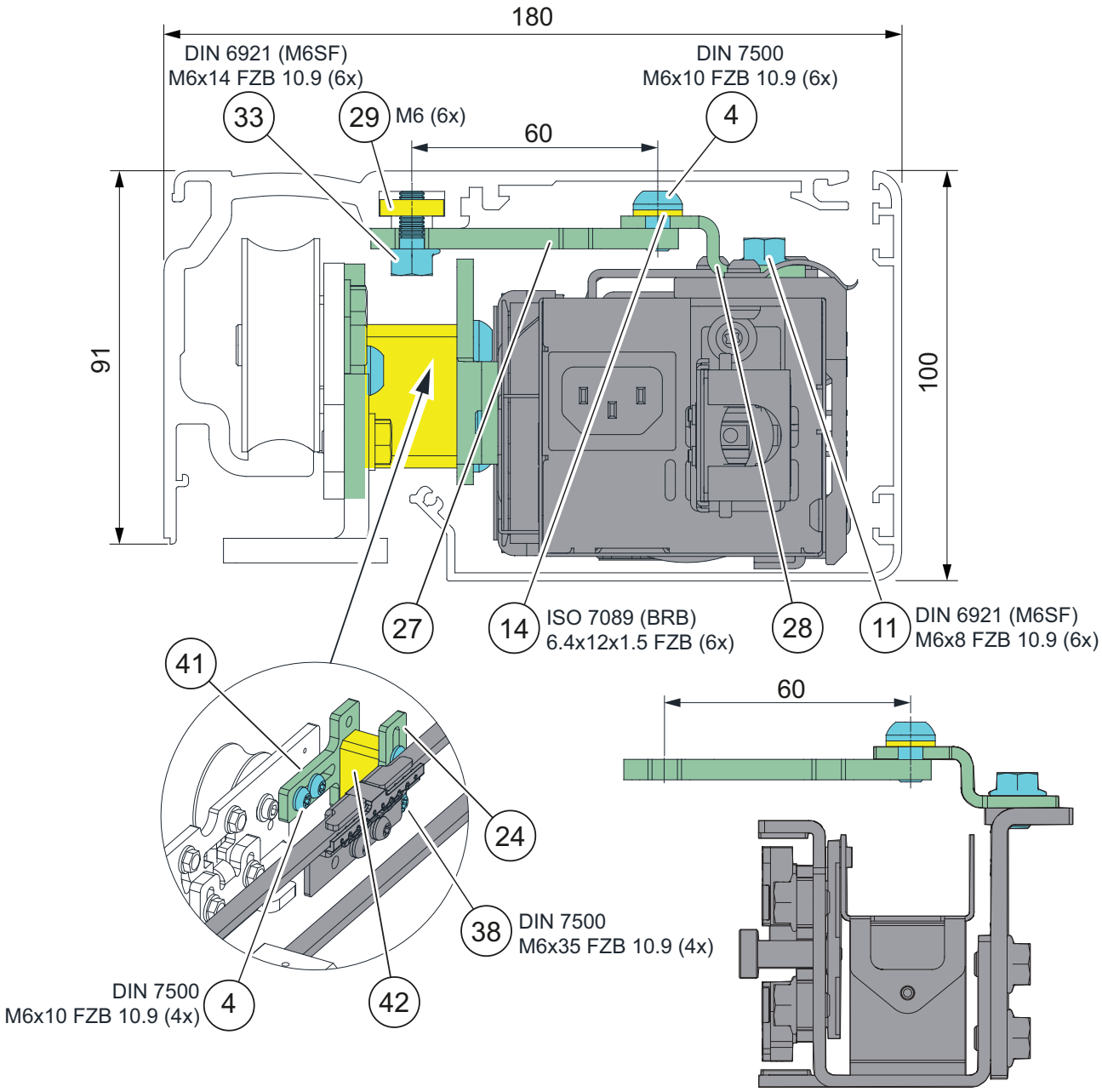
4	Screw	28	Mounting bracket
11	Screw	29	Square nut
24	Connecting bracket	32	Screw
25	Bracket 1	33	Screw

DORMA ES 90/100



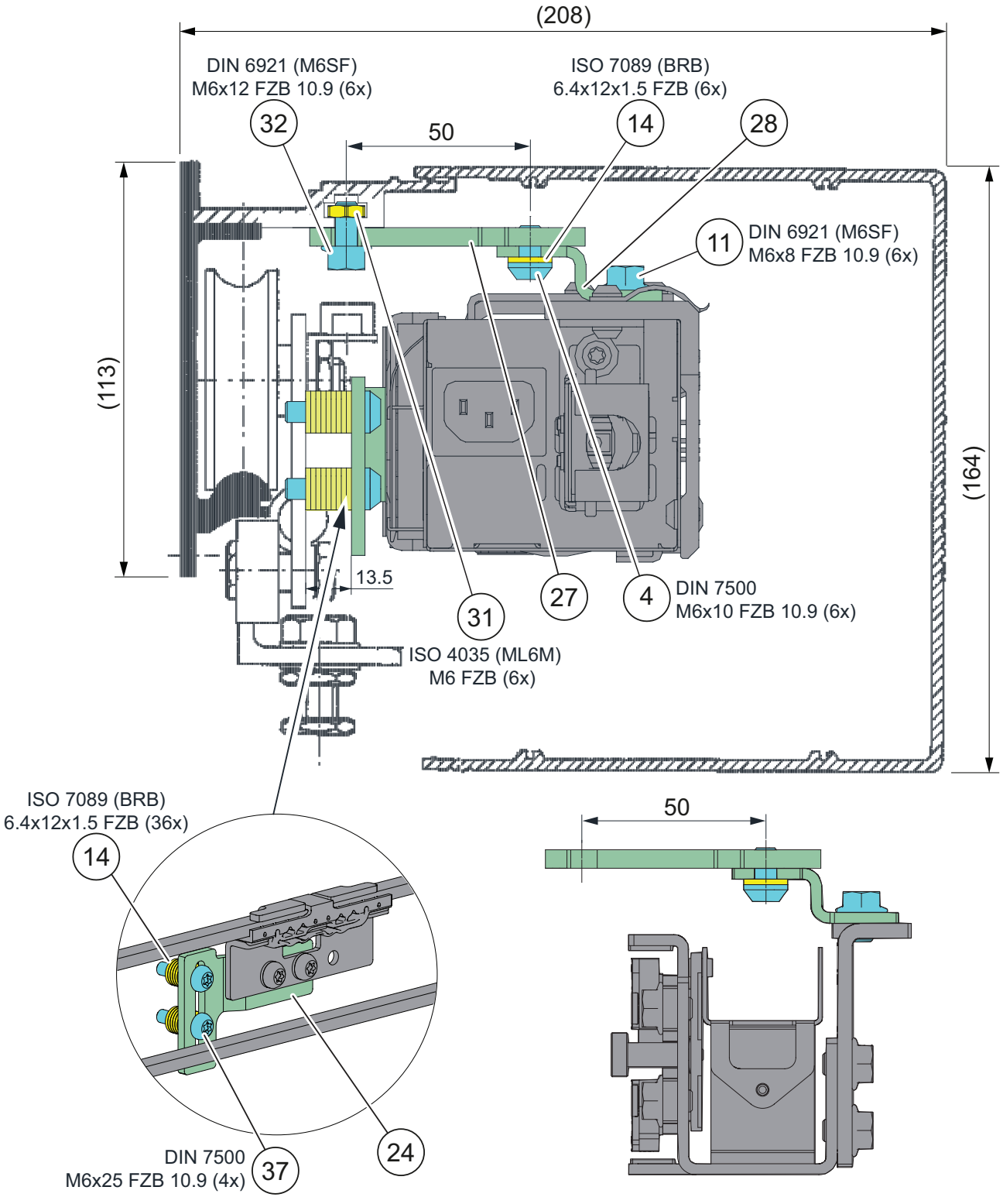
4 Screw
11 Screw
14 Washer
24 Connecting bracket
27 Mounting plate
28 Mounting bracket
29 Square nut
33 Screw
36 Screw

DORMA ES 200



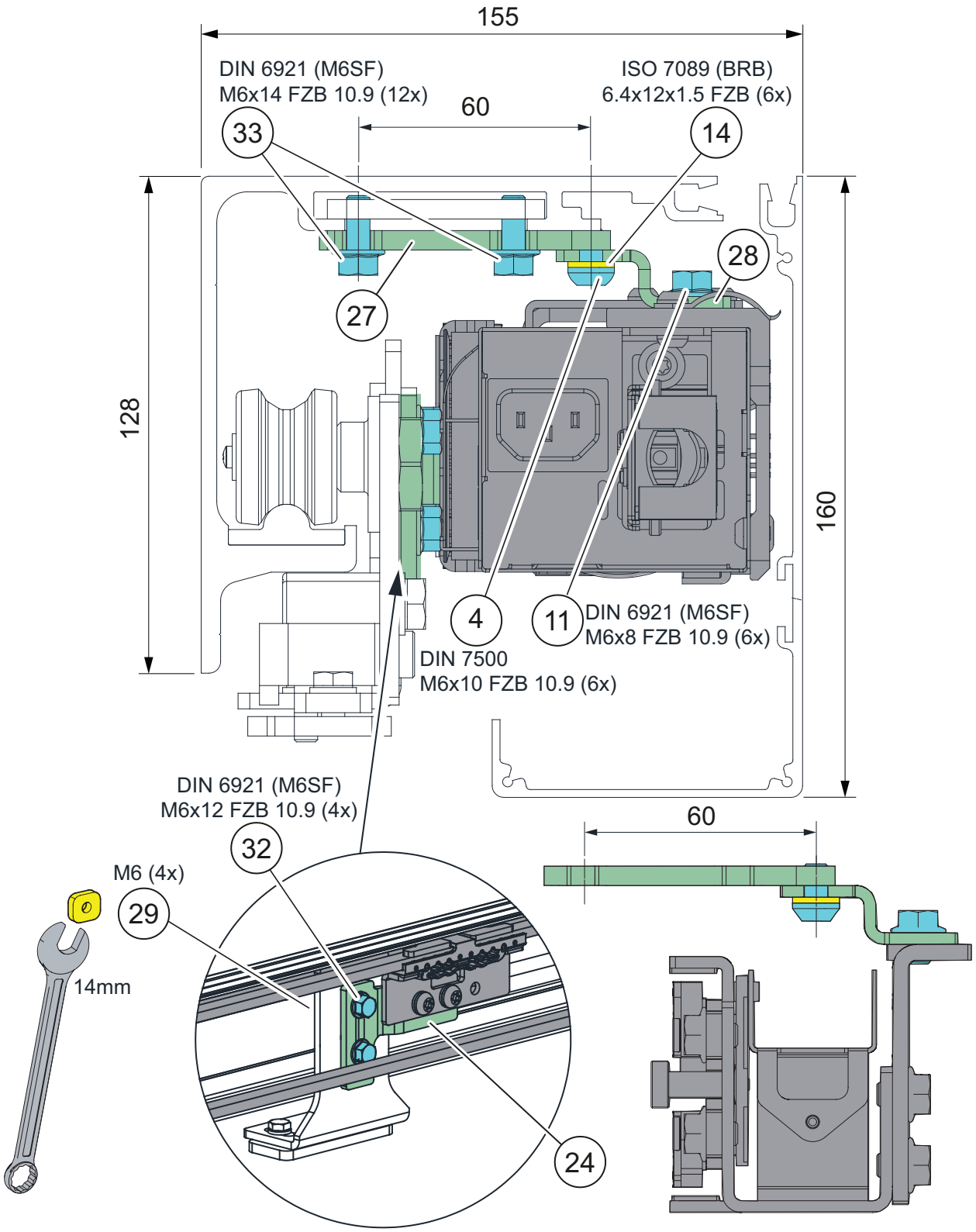
4	Screw	29	Square nut
11	Screw	33	Screw
14	Washer	38	Screw
24	Connecting bracket	41	Bracket 3
27	Mounting plate	42	Spacer block
28	Mounting bracket		

ELDEBE GSX



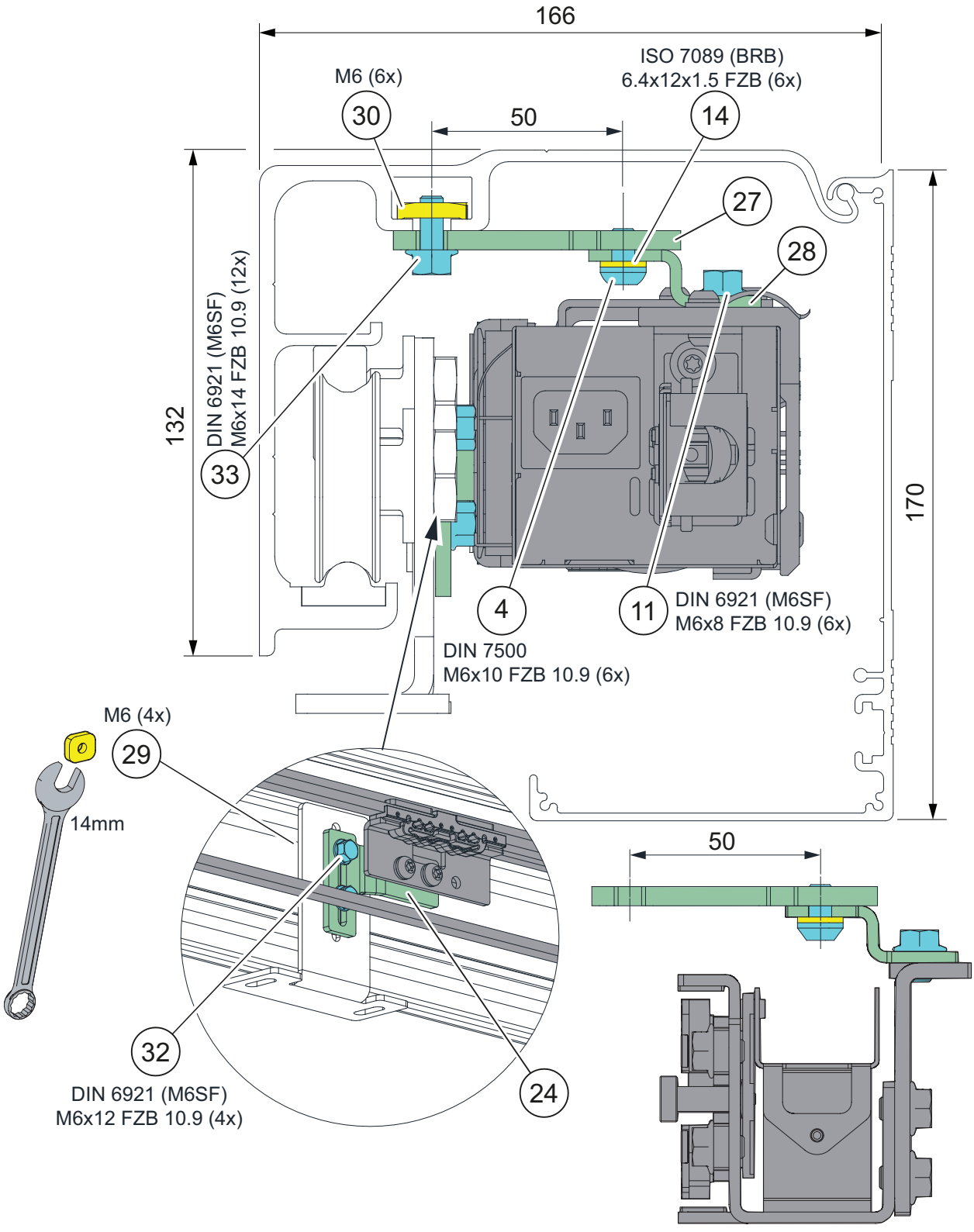
4 Screw
11 Screw
14 Washer
24 Connecting bracket
27 Mounting plate
28 Mounting bracket
31 Nut
32 Screw
37 Screw

EMC



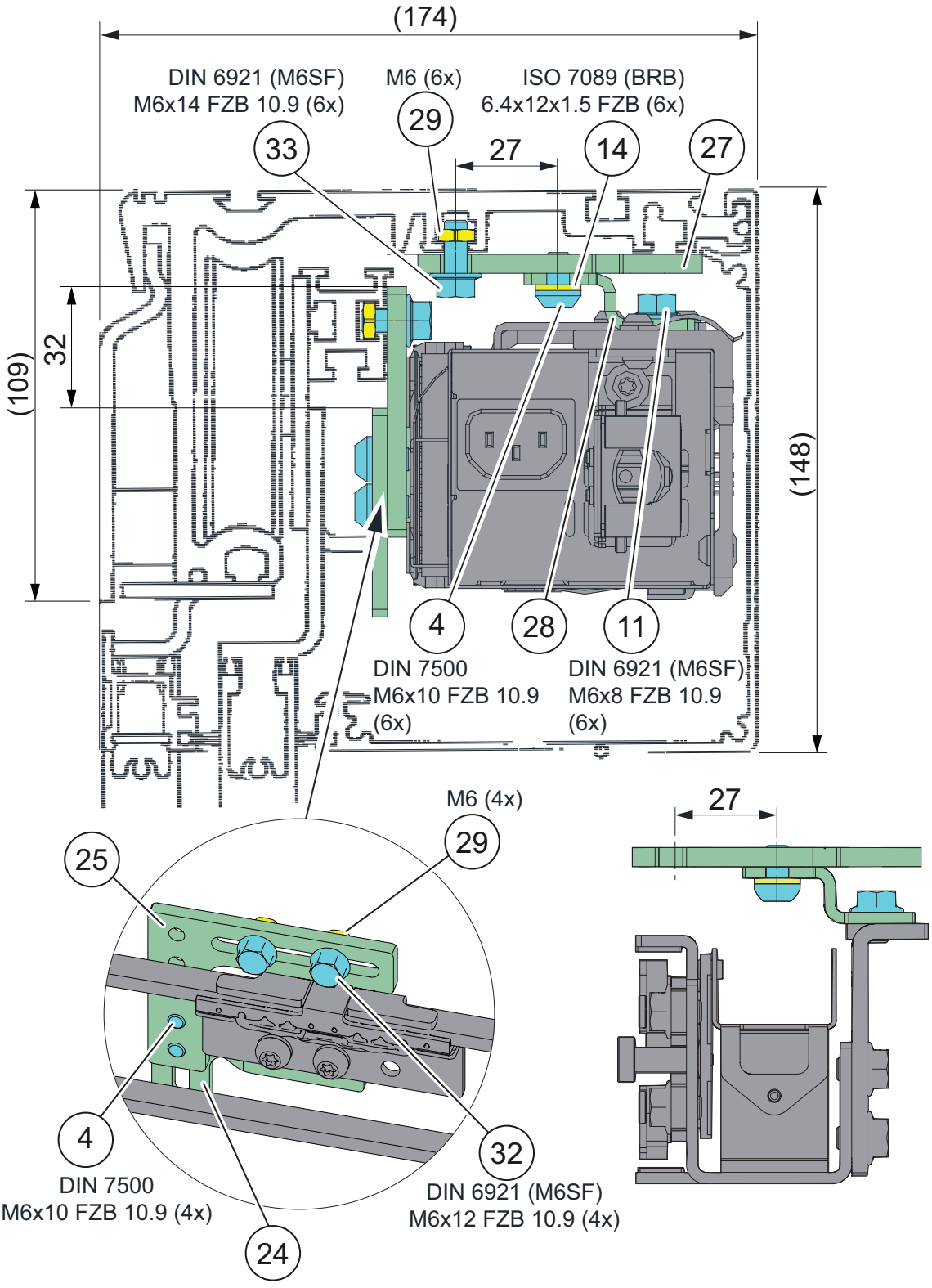
4	Screw	28	Mounting bracket
11	Screw	29	Square nut
14	Washer	32	Screw
24	Connecting bracket	33	Screw
27	Mounting plate		

EMD



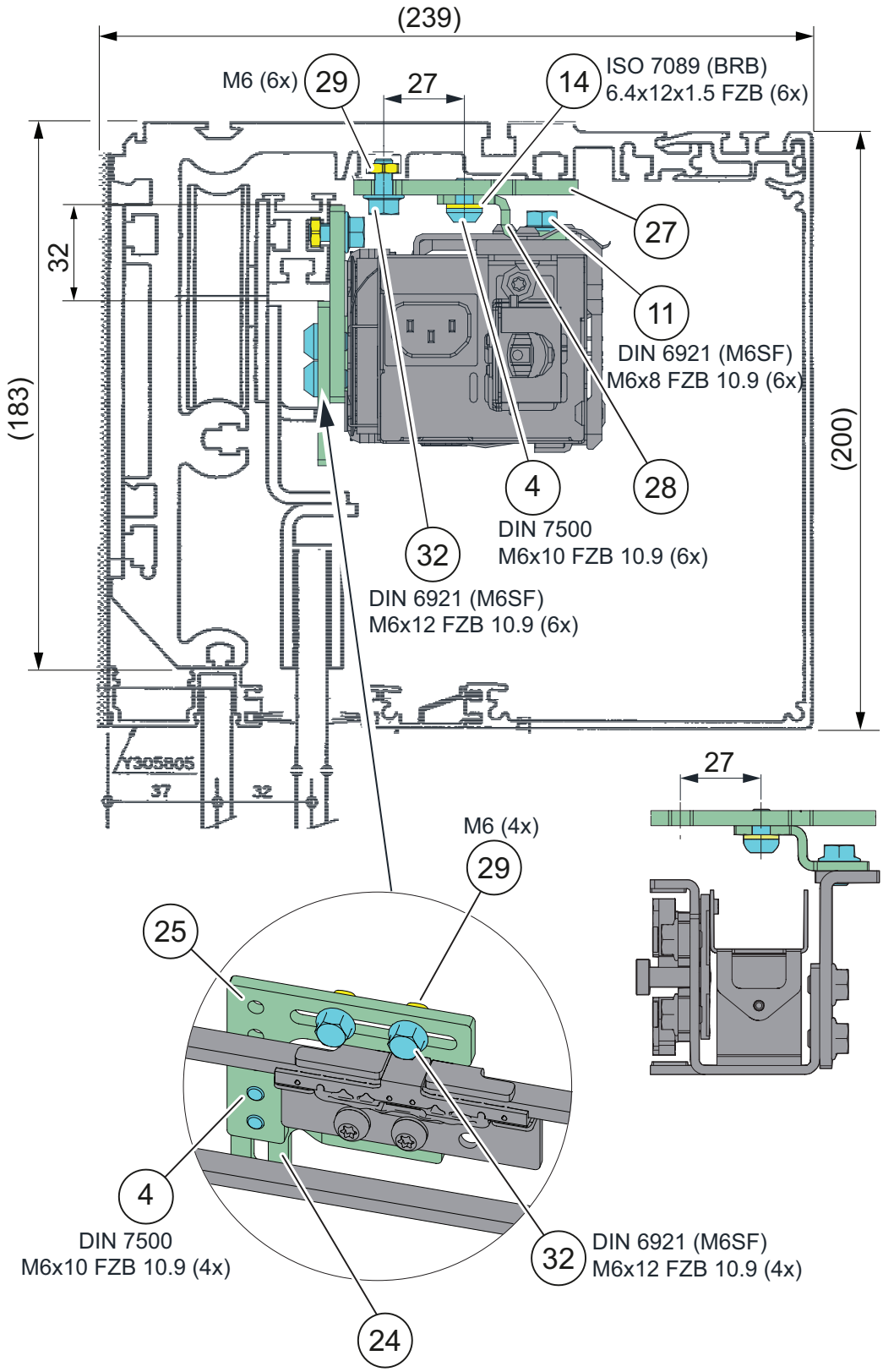
4	Screw	29	Square nut
11	Screw	30	Nut
14	Washer	32	Screw
24	Connecting bracket	33	Screw
27	Mounting plate		

Faiveley 6



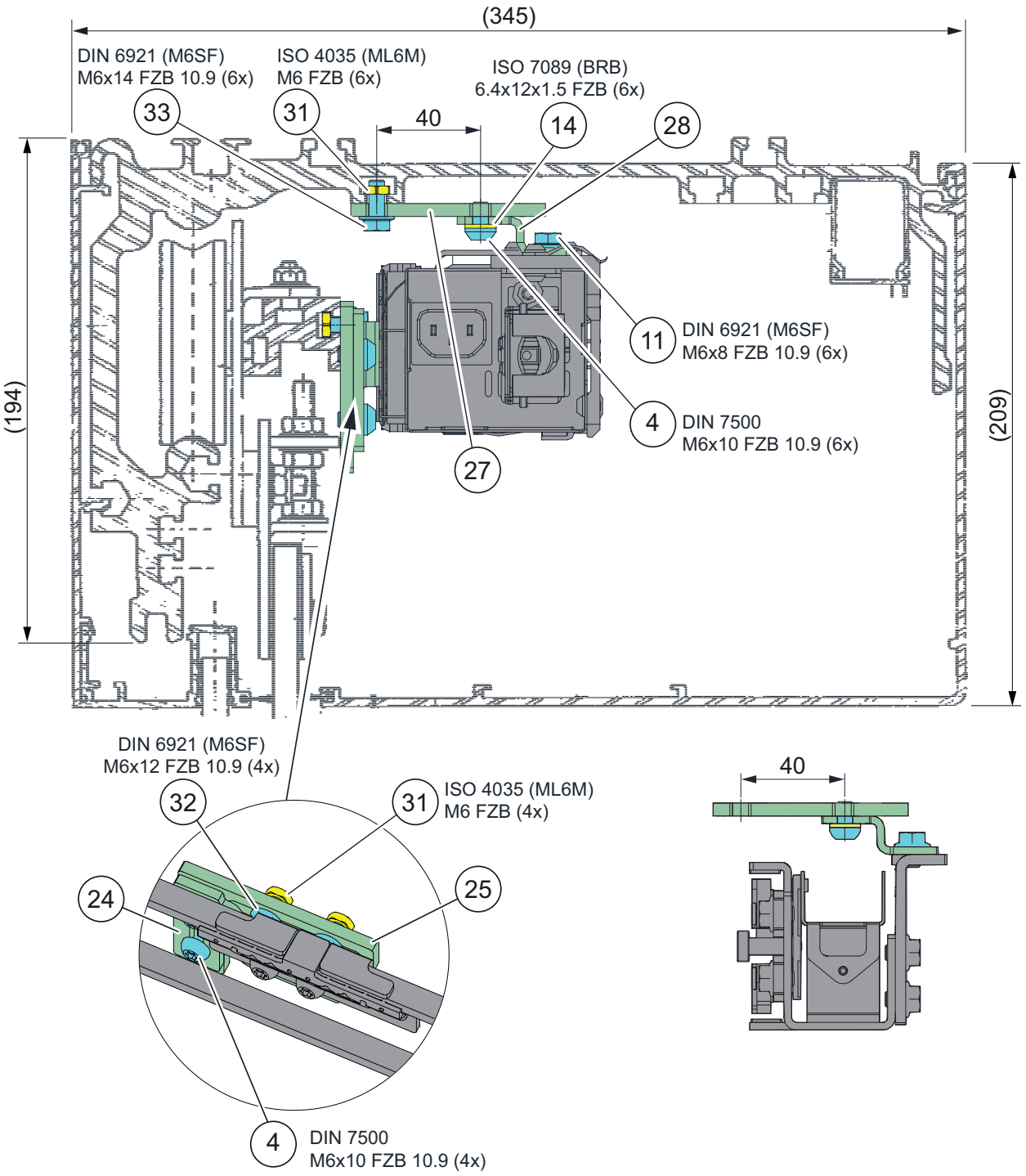
4	Screw	27	Mounting plate
11	Screw	28	Mounting bracket
14	Washer	29	Square nut
24	Connecting bracket	32	Screw
25	Bracket 1	33	Screw

Faiveley 12



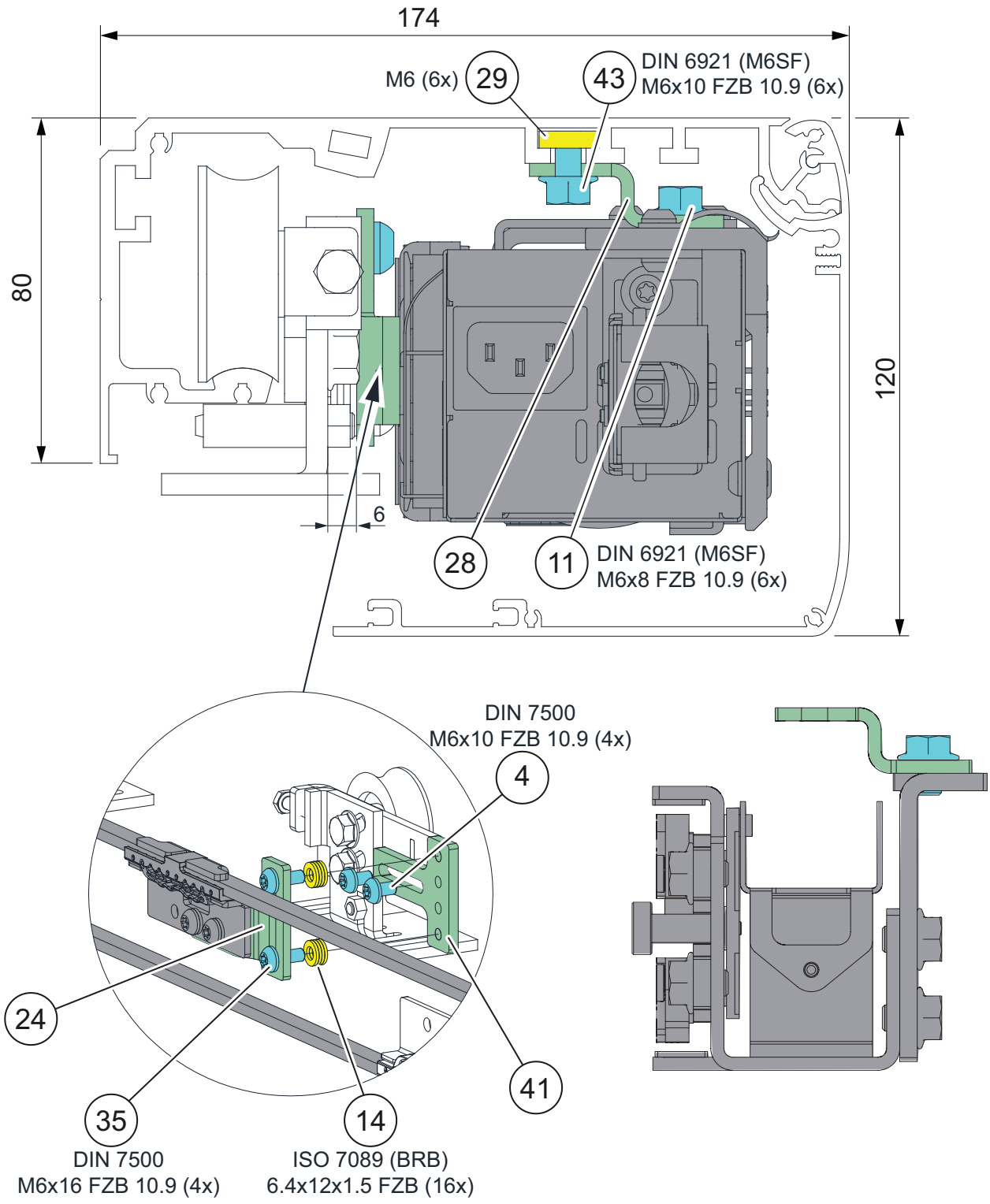
4	Screw	27	Mounting plate
11	Screw	28	Mounting bracket
14	Washer	29	Square nut
24	Connecting bracket	32	Screw
25	Bracket 1		

Faiveley 17



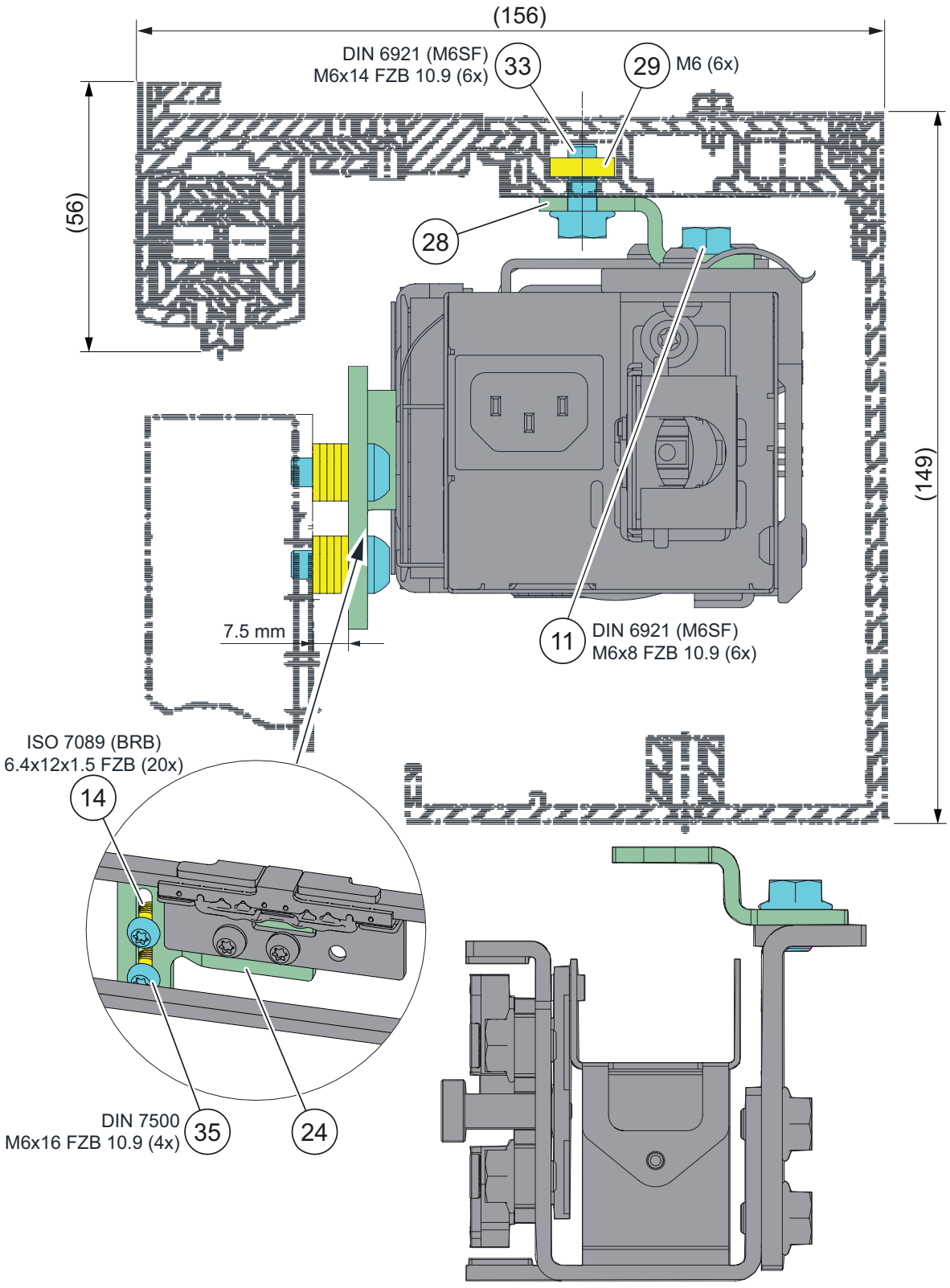
4	Screw	27	Mounting plate
11	Screw	28	Mounting bracket
14	Washer	31	Nut
24	Connecting bracket	32	Screw
25	Bracket 1	33	Screw

GEZE ECdrive



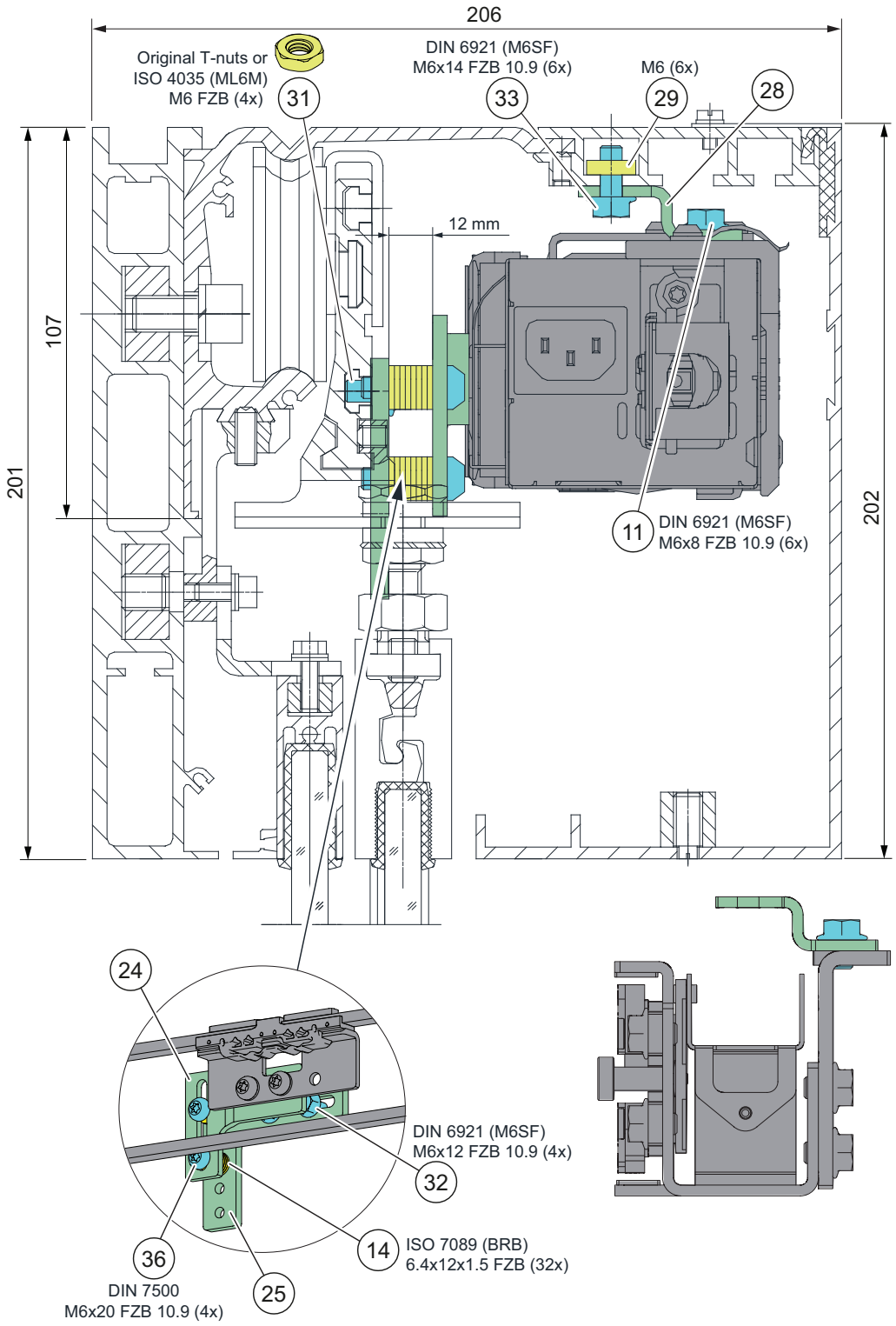
4 Screw
11 Screw
14 Washer
24 Connecting bracket
28 Mounting bracket
29 Square nut
35 Screw
41 Bracket 3
43 Screw

GEZE TSA 340



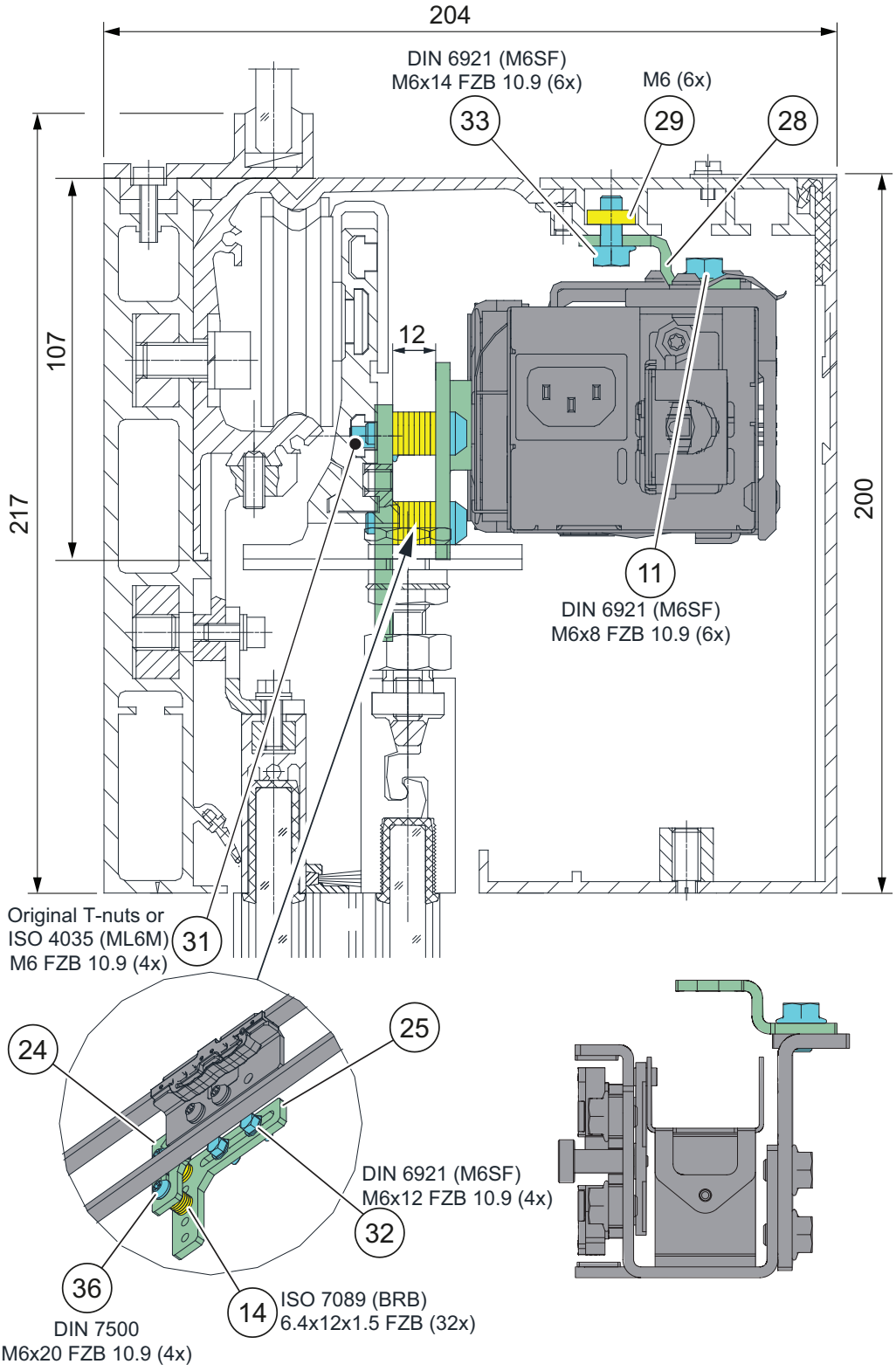
11 Screw
14 Washer
24 Connecting bracket
28 Mounting bracket
29 Square nut
33 Screw
35 Screw

GEZE TSA 350 N/350 W



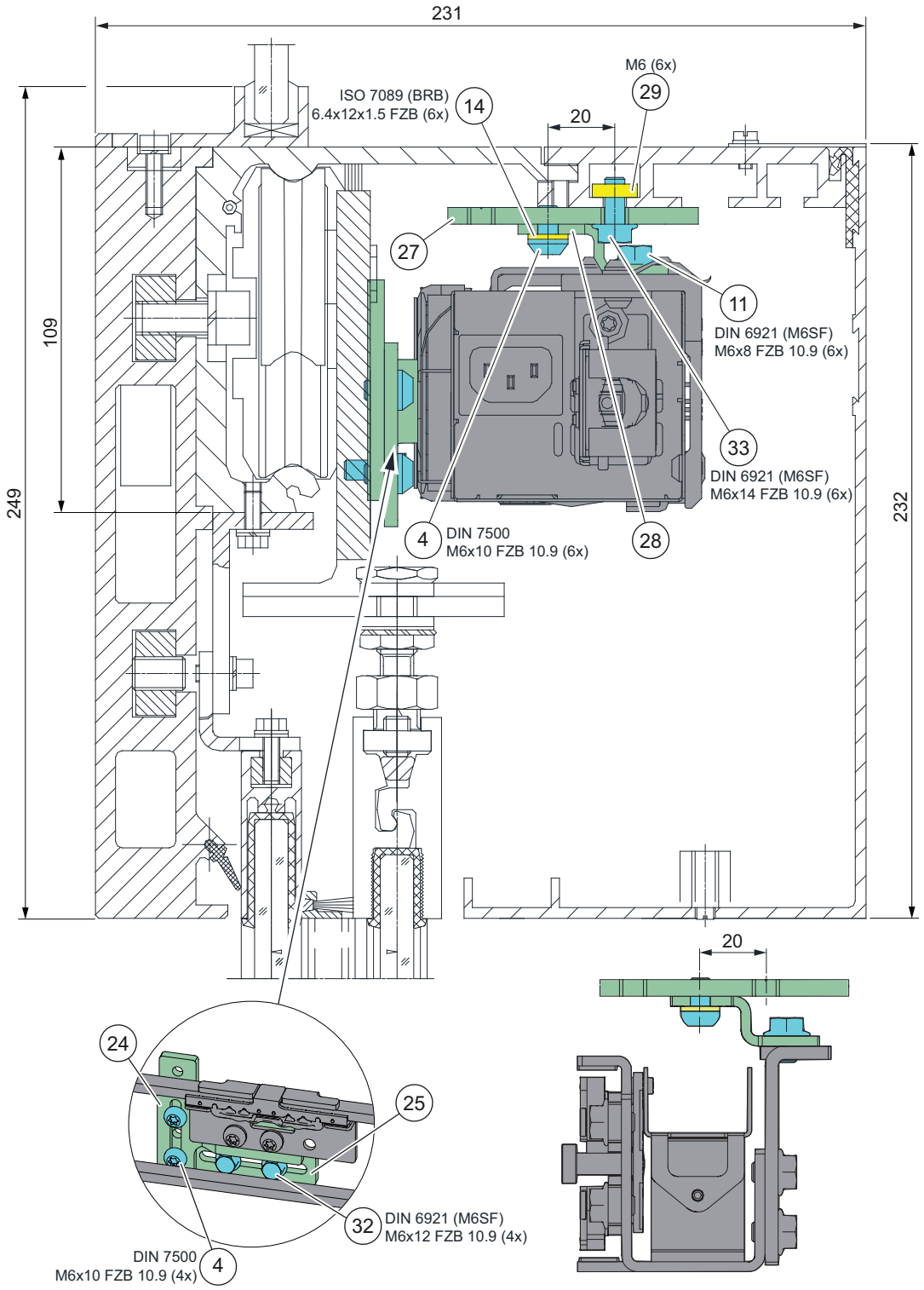
11	Screw	29	Square nut
14	Washer	31	Nut
24	Connecting bracket	32	Screw
25	Bracket 1	33	Screw
28	Mounting bracket	36	Screw

GEZE TSA 360



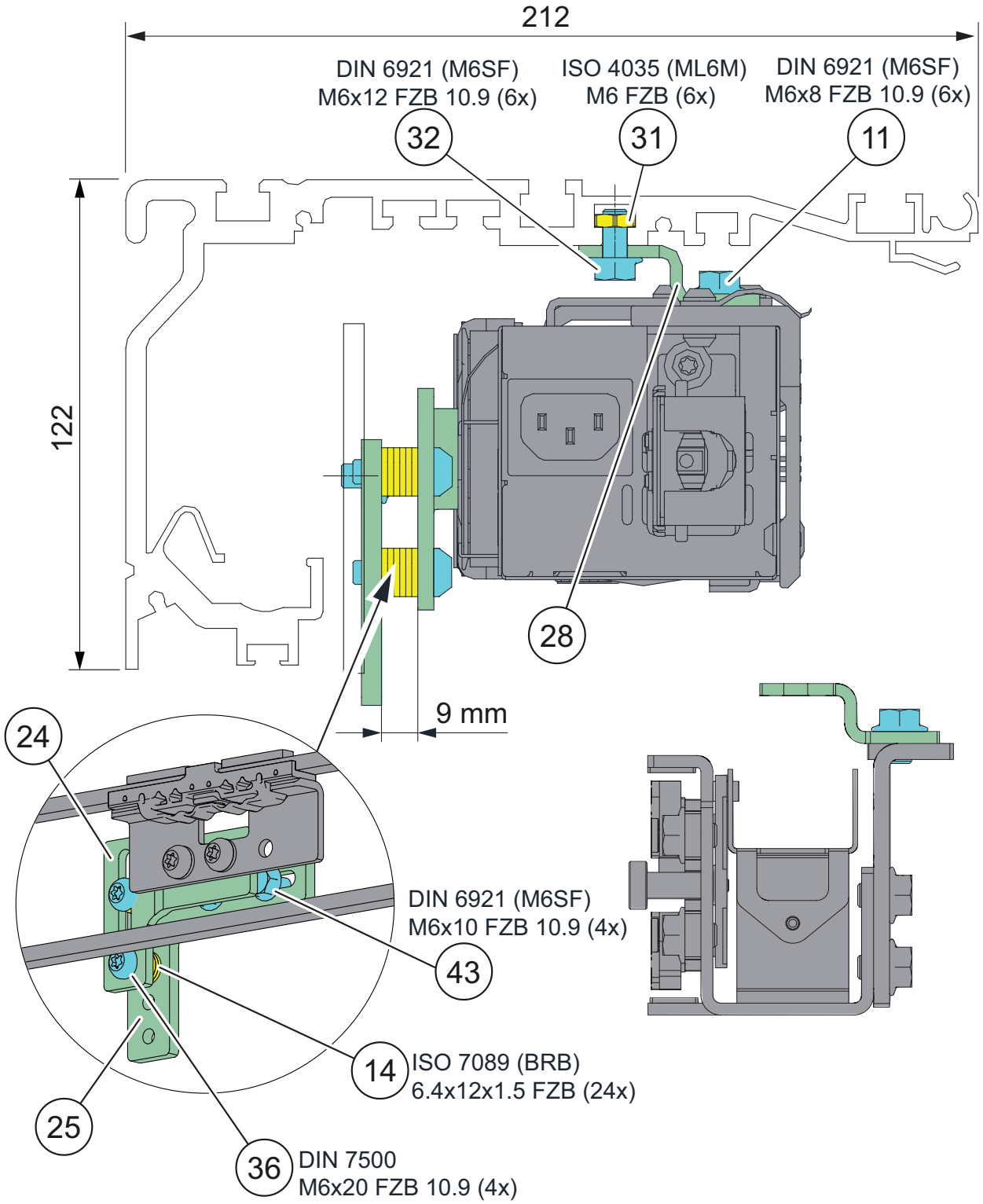
11	Screw	29	Square nut
14	Washer	31	Nut
24	Connecting bracket	32	Screw
25	Bracket 1	33	Screw
28	Mounting bracket	36	Screw

GEZE TSA 450



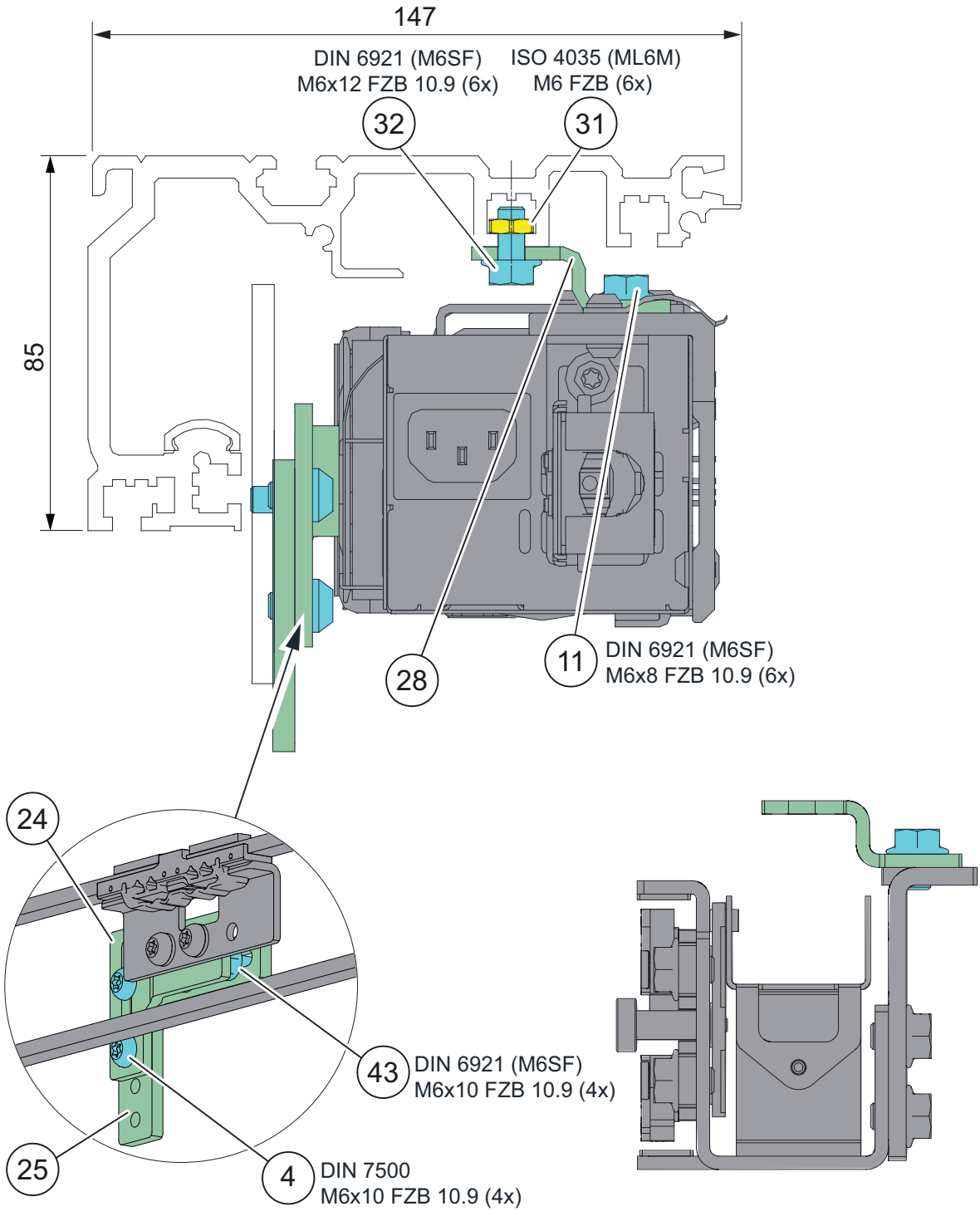
4	Screw	27	Mounting plate
11	Screw	28	Mounting bracket
14	Washer	29	Square nut
24	Connecting bracket	32	Screw
25	Bracket 1	33	Screw

Gilgen SLK/SLG



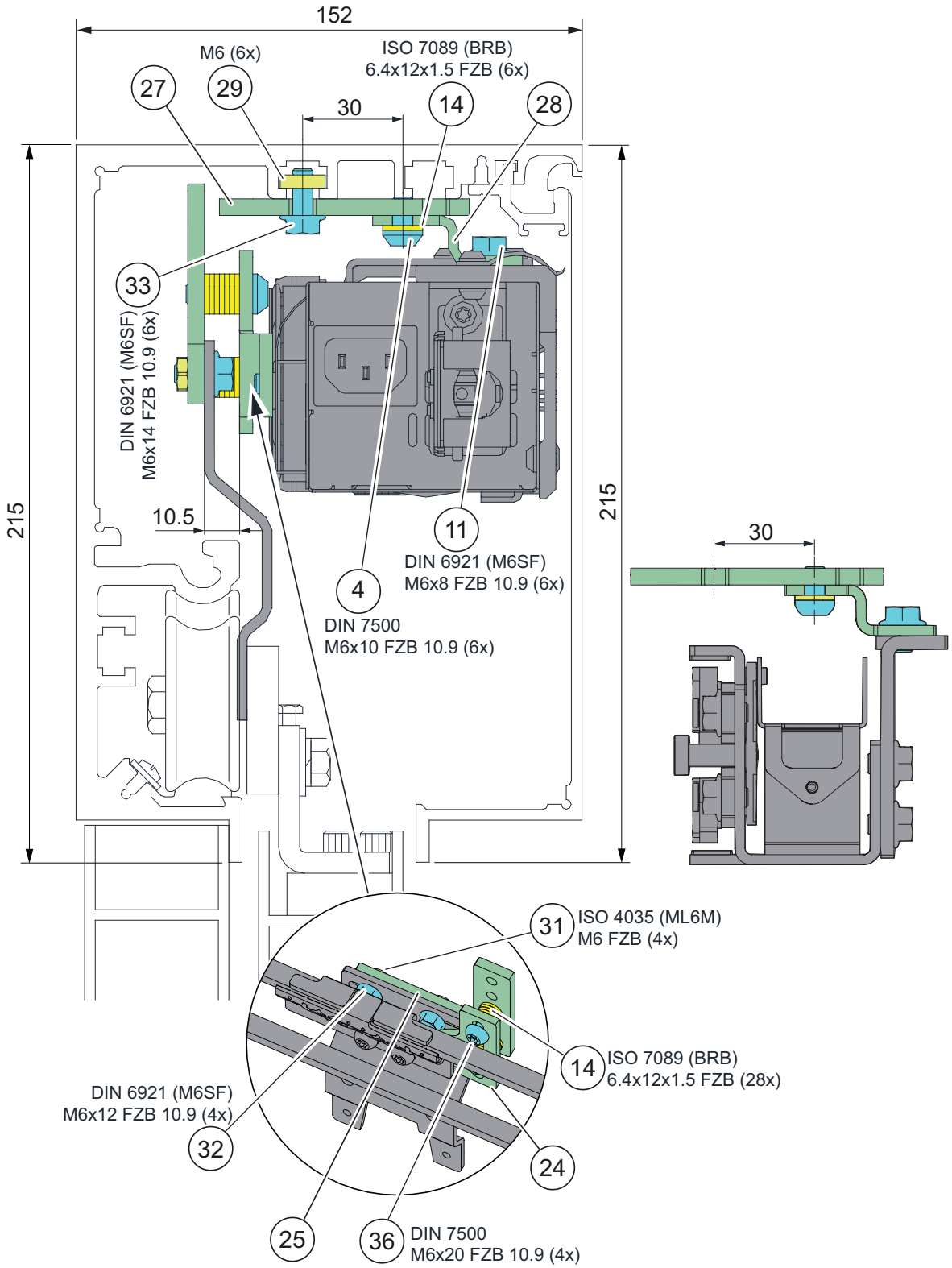
11	Screw	31	Nut
14	Washer	32	Screw
24	Connecting bracket	36	Screw
25	Bracket 1	43	Screw
28	Mounting bracket		

Gilgen SLM/SLP



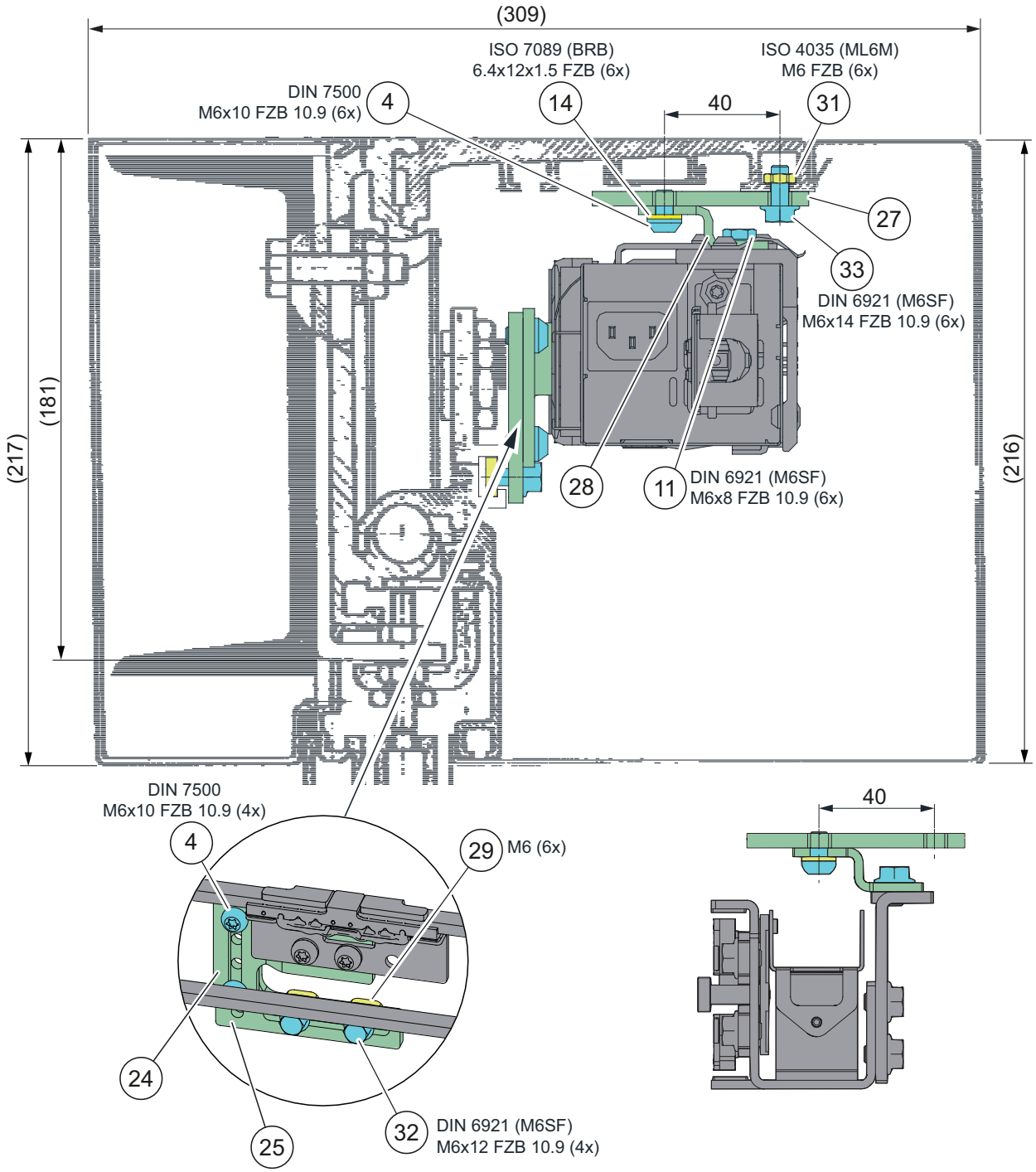
4	Screw	28	Mounting bracket
11	Screw	31	Nut
24	Connecting bracket	32	Screw
25	Bracket 1	43	Screw

HORTON Series 2001



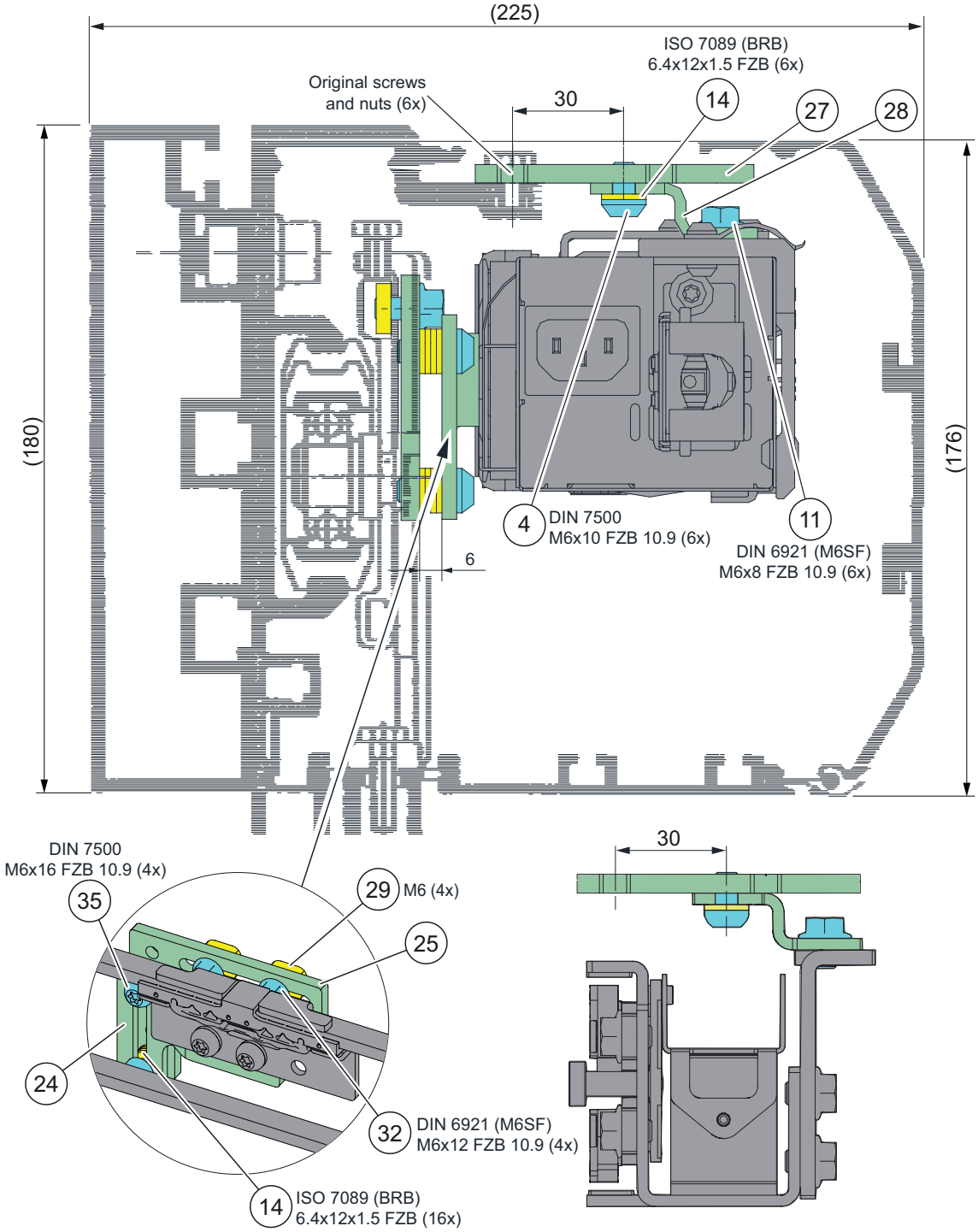
4	Screw	27	Mounting plate
11	Screw	29	Square nut
14	Washer	31	Nut
24	Connecting bracket	32	Screw
25	Bracket 1	33	Screw

Manusa PA 80



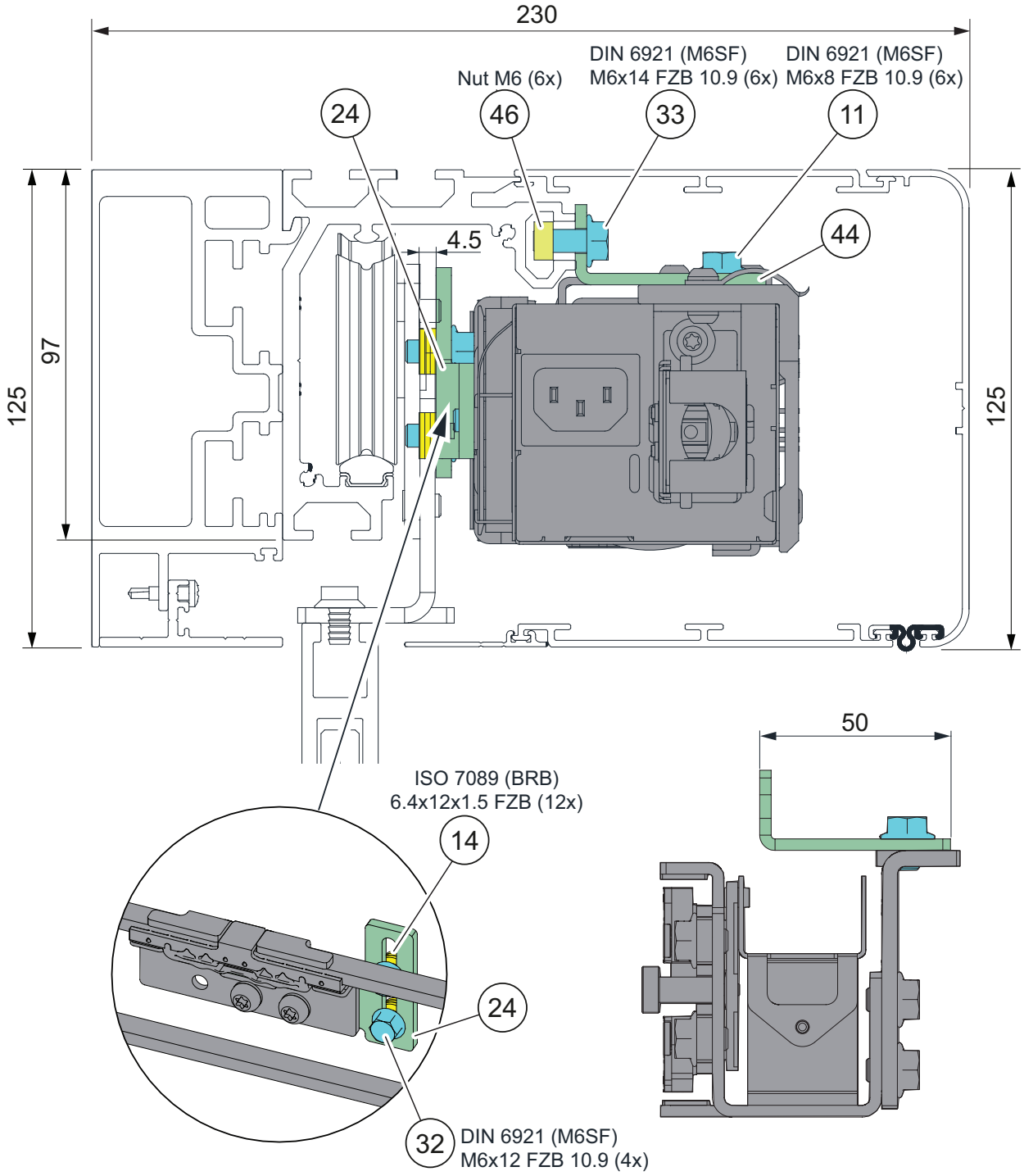
4 Screw
11 Screw
14 Washer
24 Connecting bracket
25 Bracket 1
27 Mounting plate
28 Mounting bracket
29 Square nut
31 Nut
32 Screw
33 Screw

Manusa STK



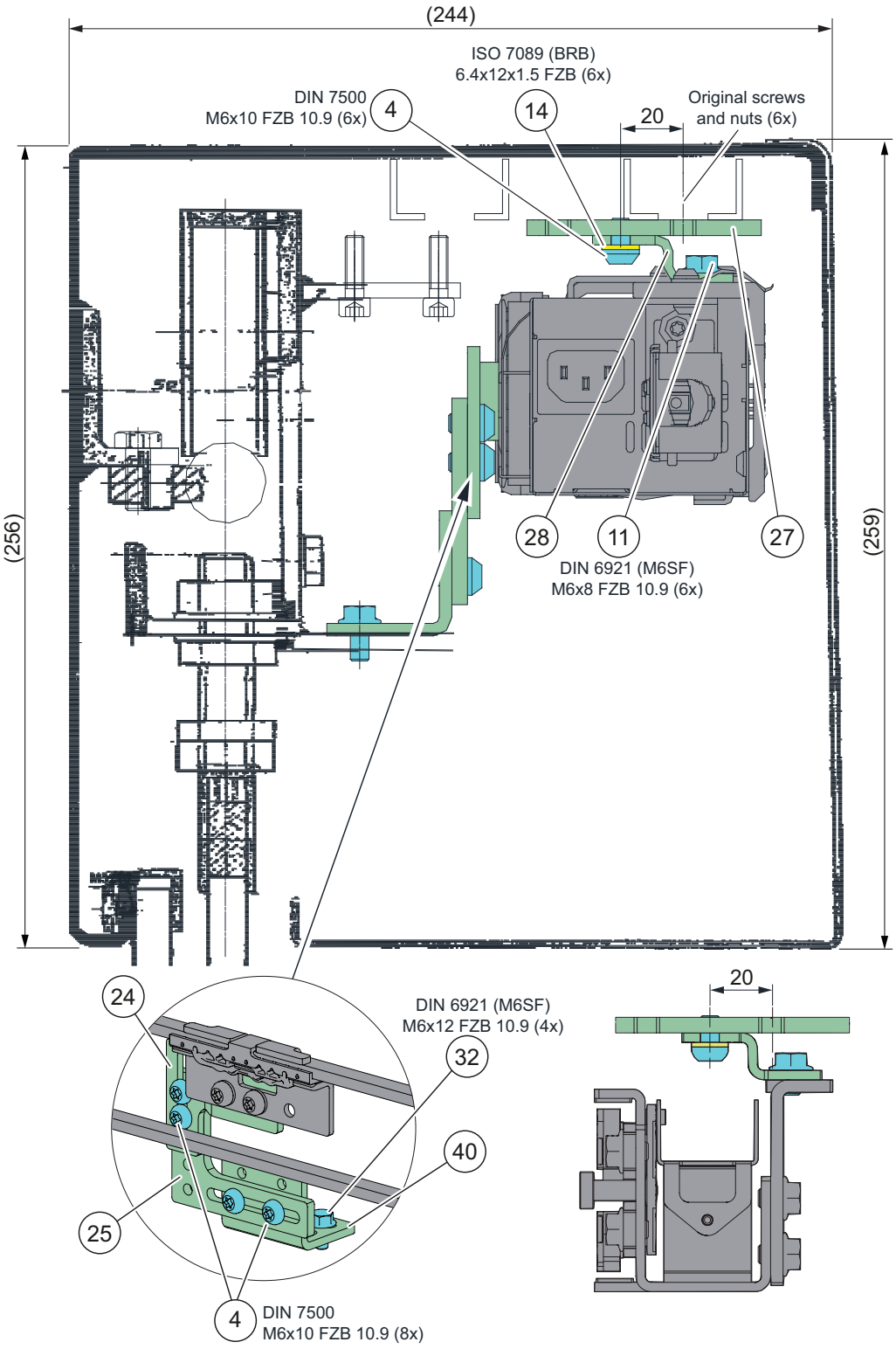
4	Screw	27	Mounting plate
11	Screw	28	Mounting bracket
14	Washer	29	Square nut
24	Connecting bracket	32	Screw
25	Bracket 1	35	Screw

Manusa Visio



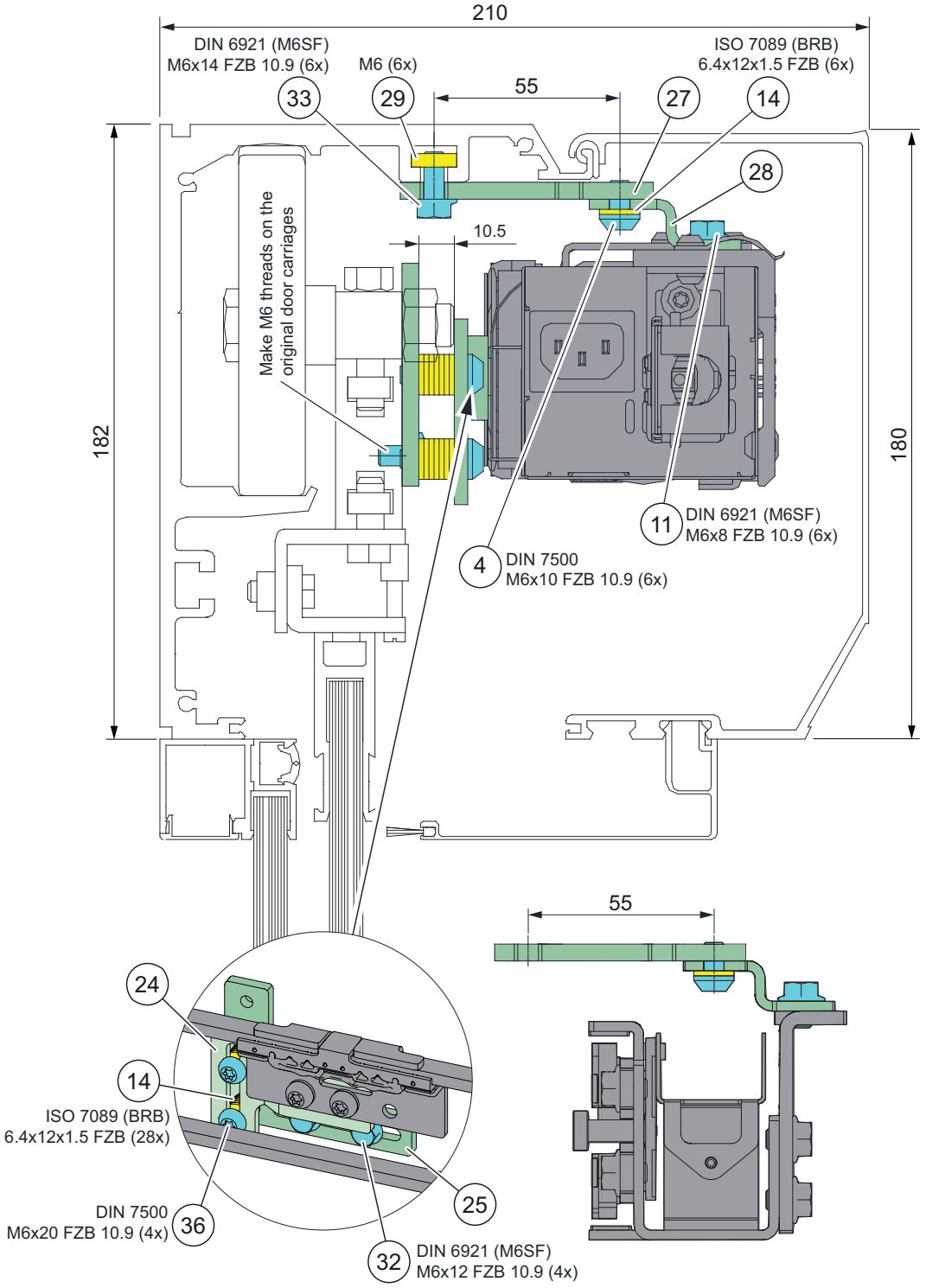
11 Screw
14 Washer
24 Connecting bracket
32 Screw
33 Screw
44 Bracket 4
46 Nut

Portalp 2000B



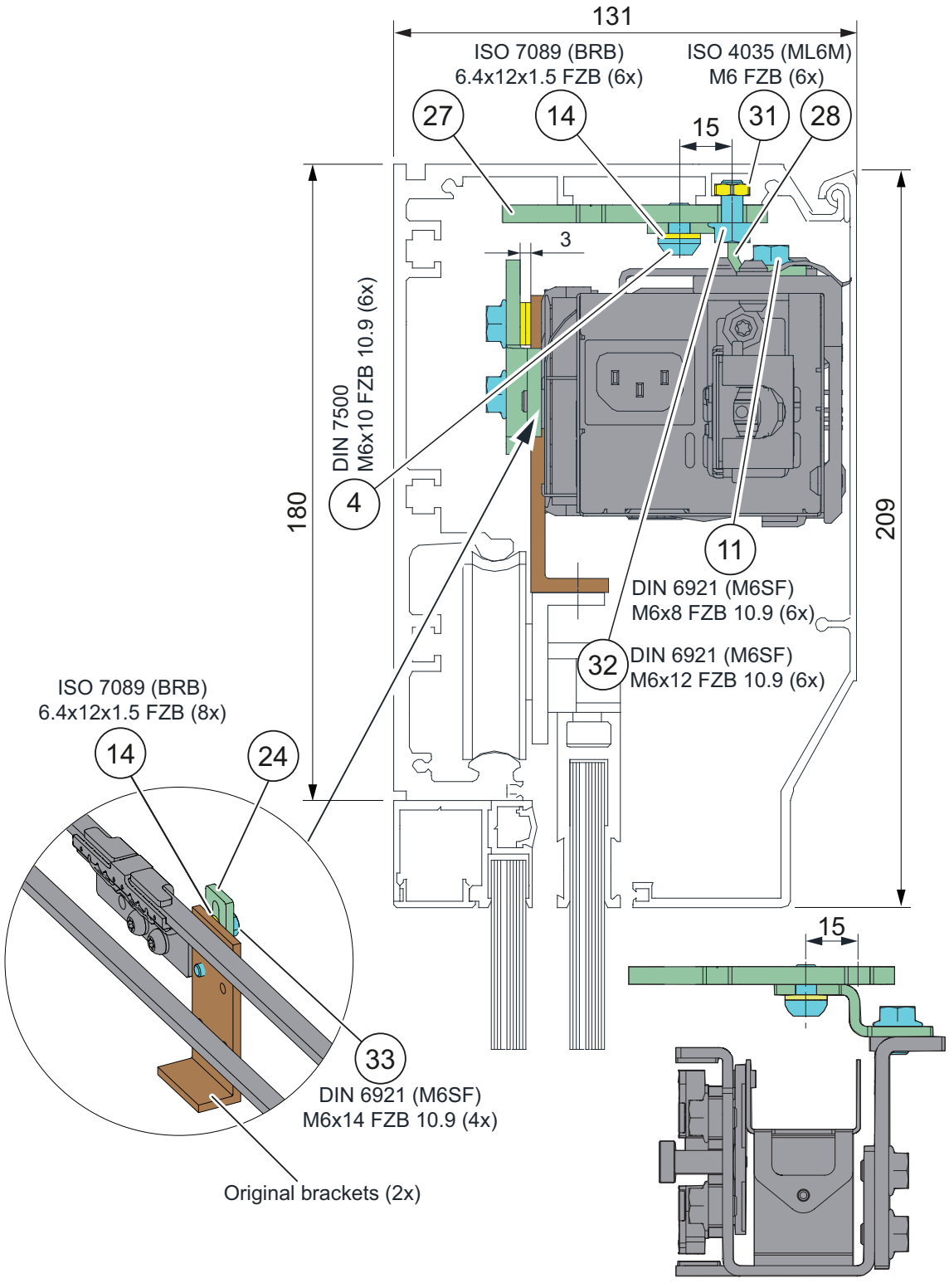
4	Screw	27	Mounting plate
11	Screw	28	Mounting bracket
14	Washer	32	Screw
24	Connecting bracket	40	Bracket 2
25	Bracket 1		

Porte Automatiche GTS-L/-P



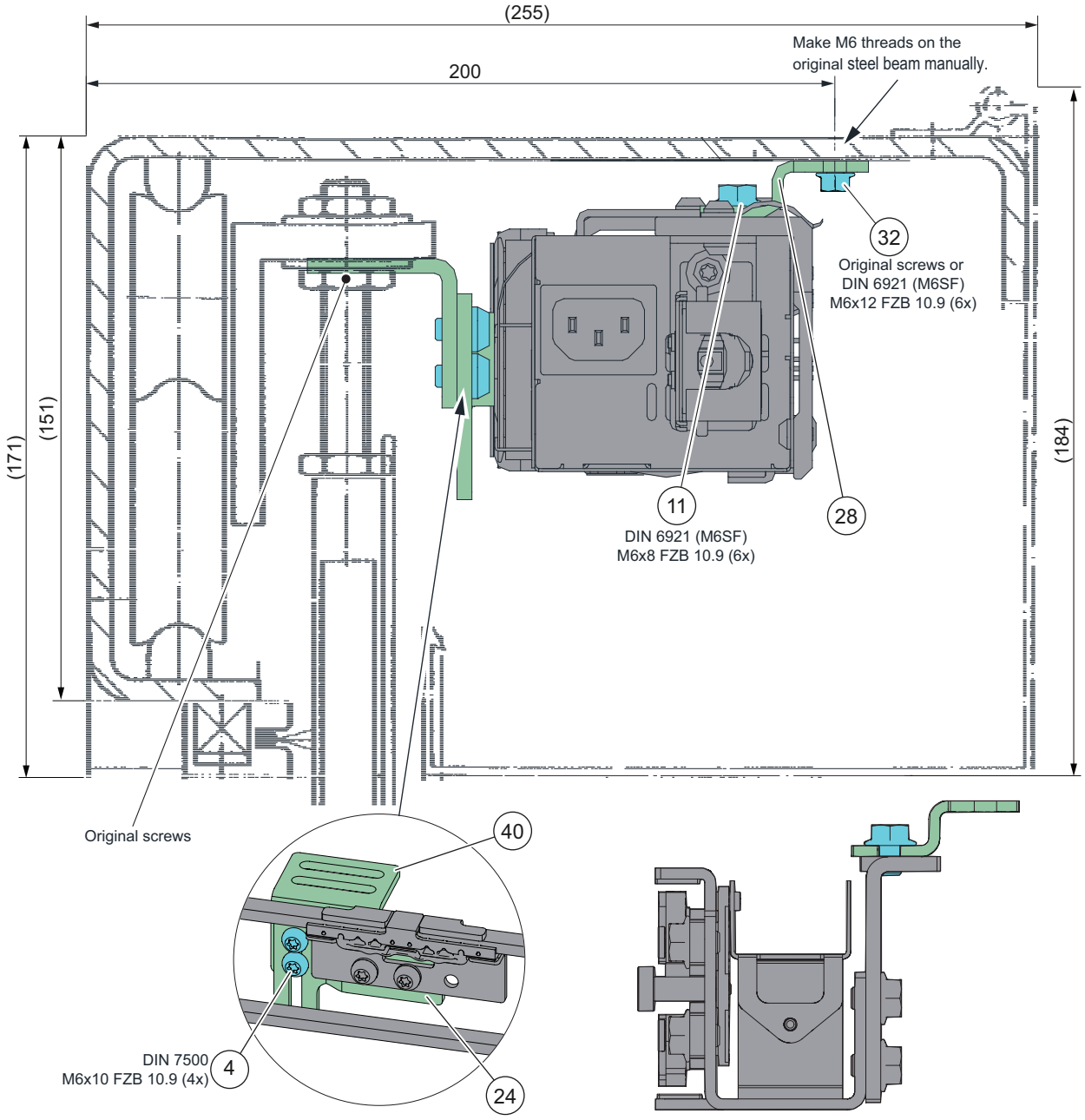
4 Screw
11 Screw
14 Washer
24 Connecting bracket
25 Bracket 1
27 Mounting plate
28 Mounting bracket
29 Square nut
32 Screw
33 Screw
36 Screw

Porte Automatiche GTV



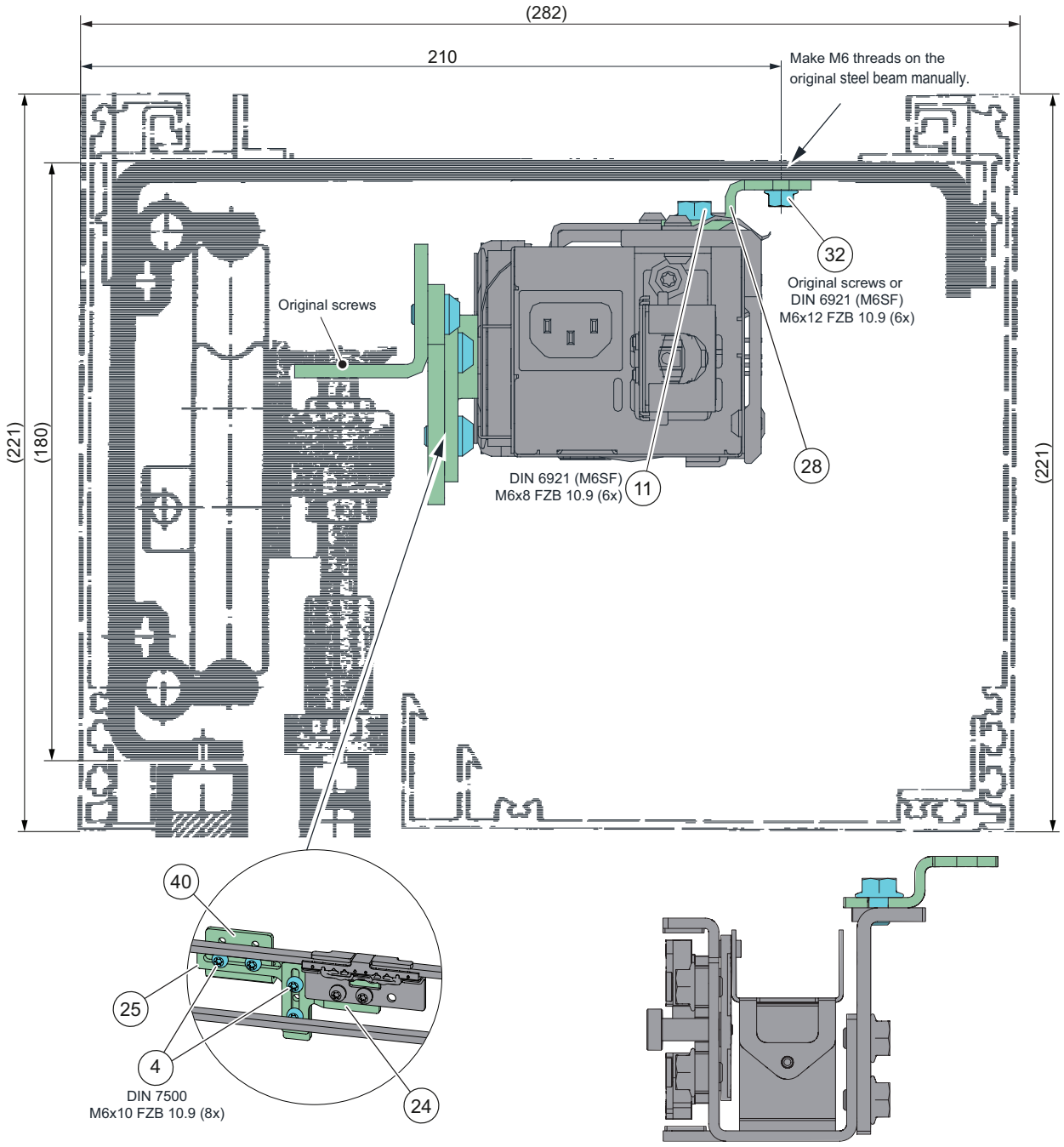
4	Screw	28	Mounting bracket
11	Screw	31	Nut
14	Washer	32	Screw
24	Connecting bracket	33	Screw
27	Mounting plate		

Record STA7



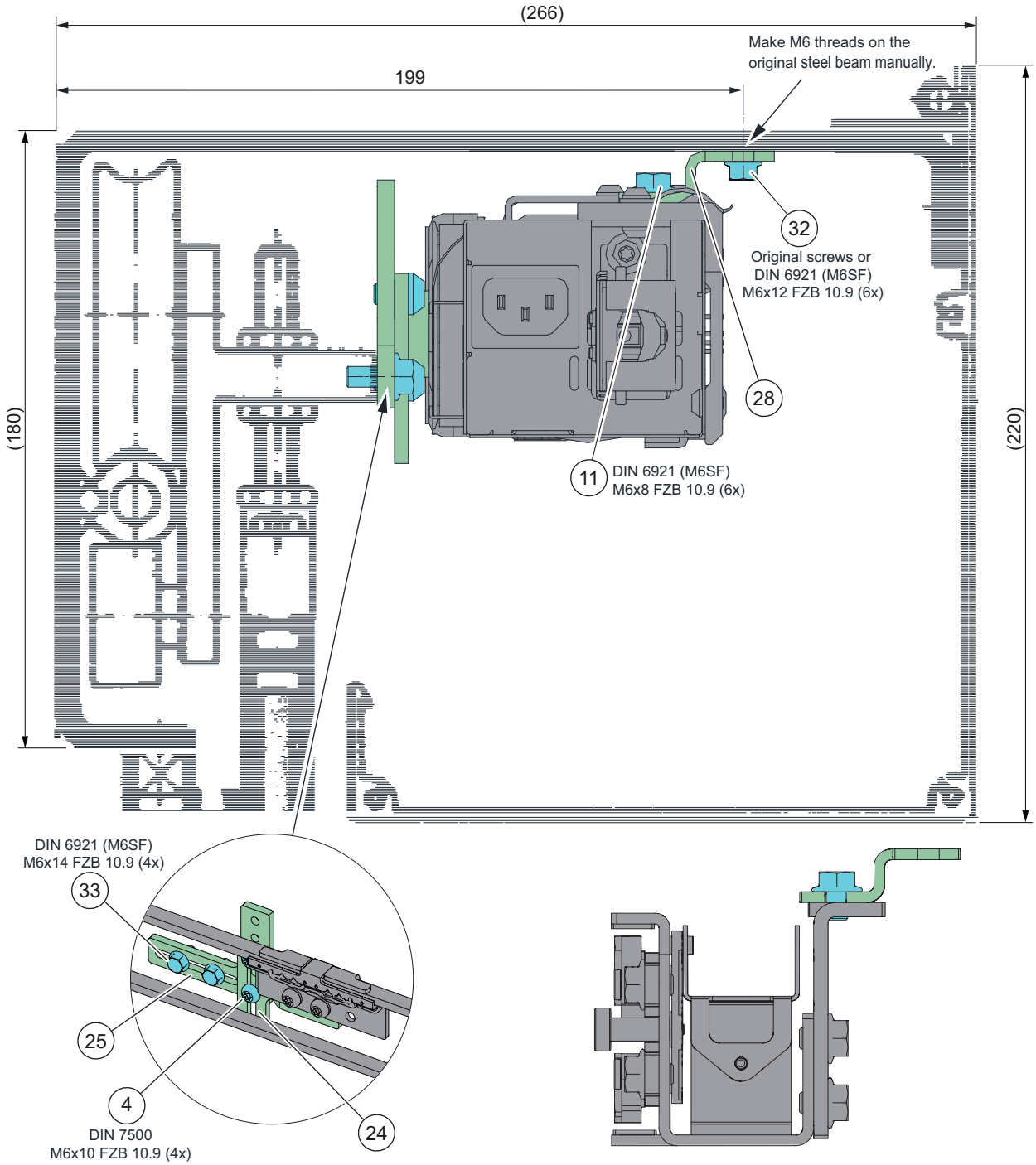
4 Screw
11 Screw
24 Connecting bracket
25 Bracket 1
28 Mounting bracket
32 Screw
40 Bracket 2

Record STA8



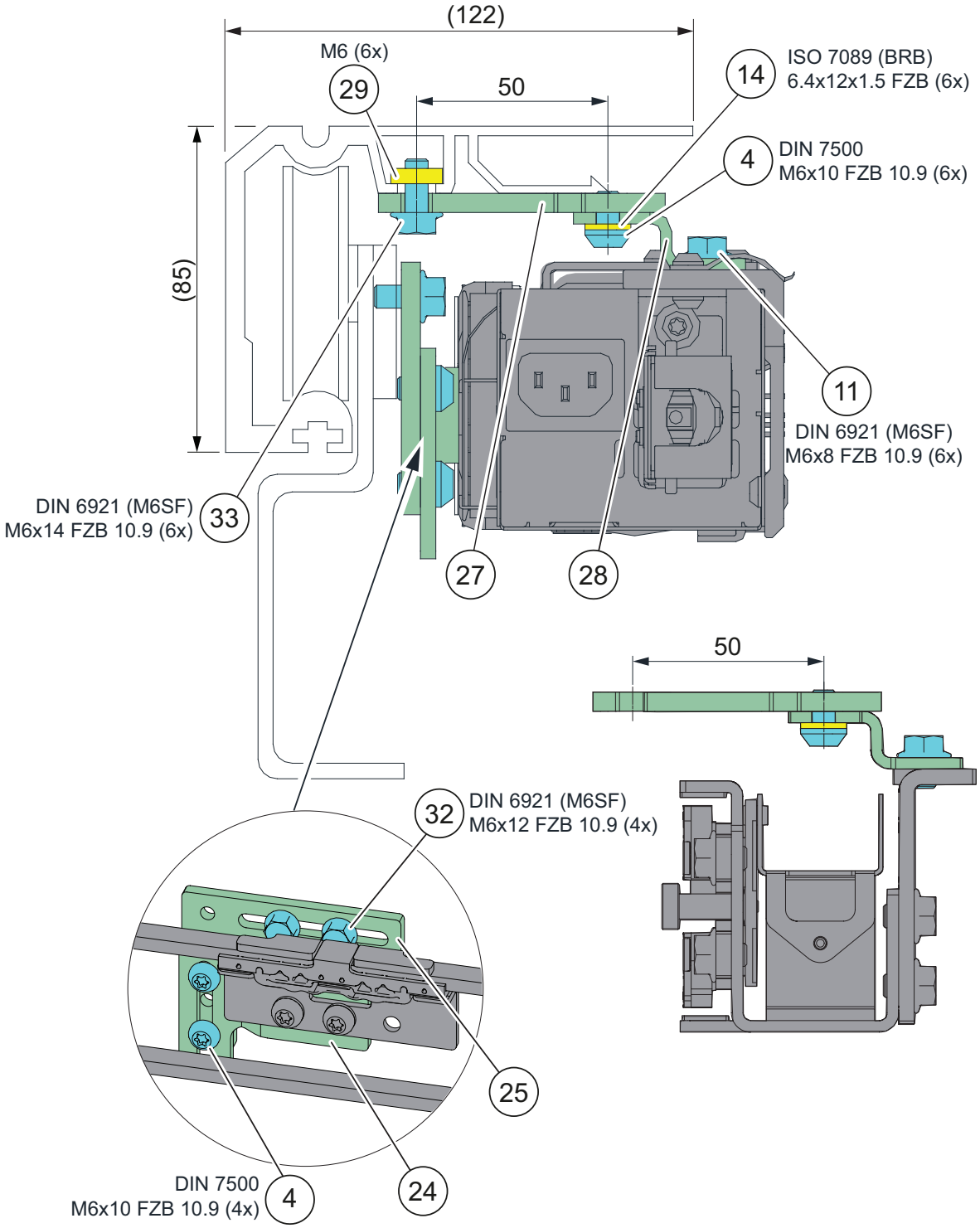
4 Screw
11 Screw
24 Connecting bracket
25 Bracket 1
28 Mounting bracket
32 Screw
40 Bracket 2

Record STA9/STA10



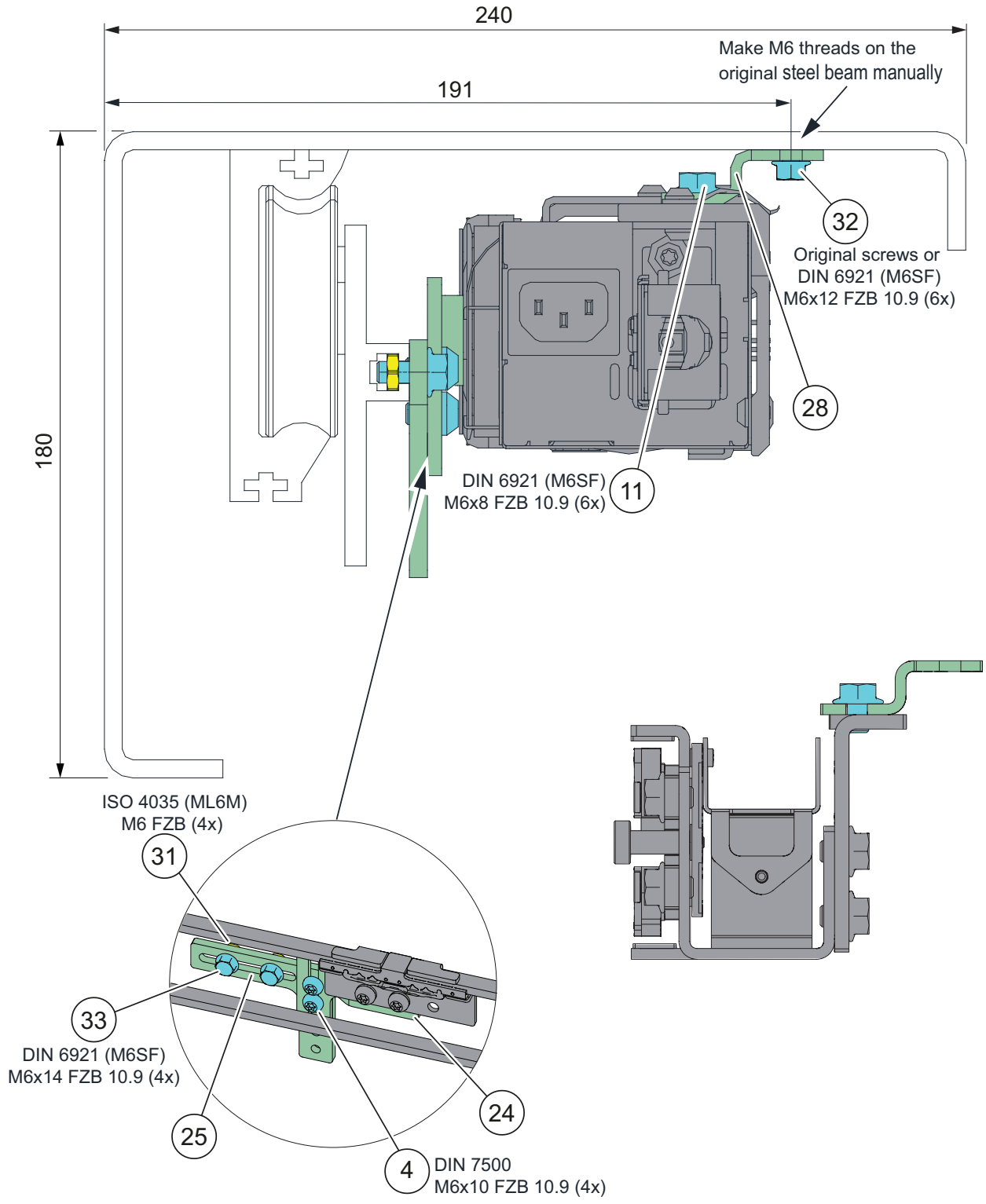
4 Screw
11 Screw
24 Connecting bracket
25 Bracket 1
28 Mounting bracket
32 Screw
33 Screw

Record STA11



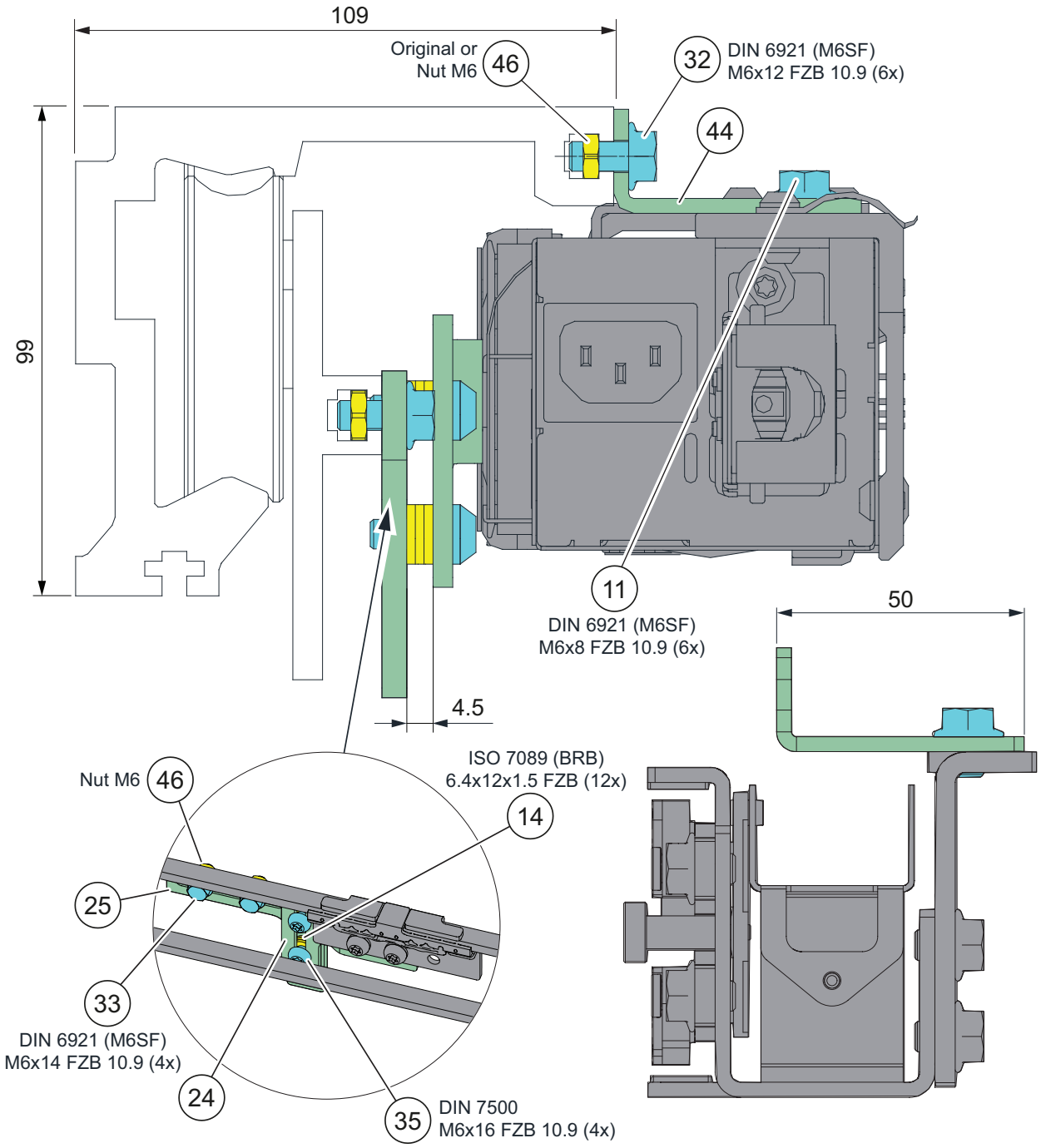
4	Screw	27	Mounting plate
11	Screw	28	Mounting bracket
14	Washer	29	Square nut
24	Connecting bracket	32	Screw
25	Bracket 1	33	Screw

Record STA12/STA14 Steel



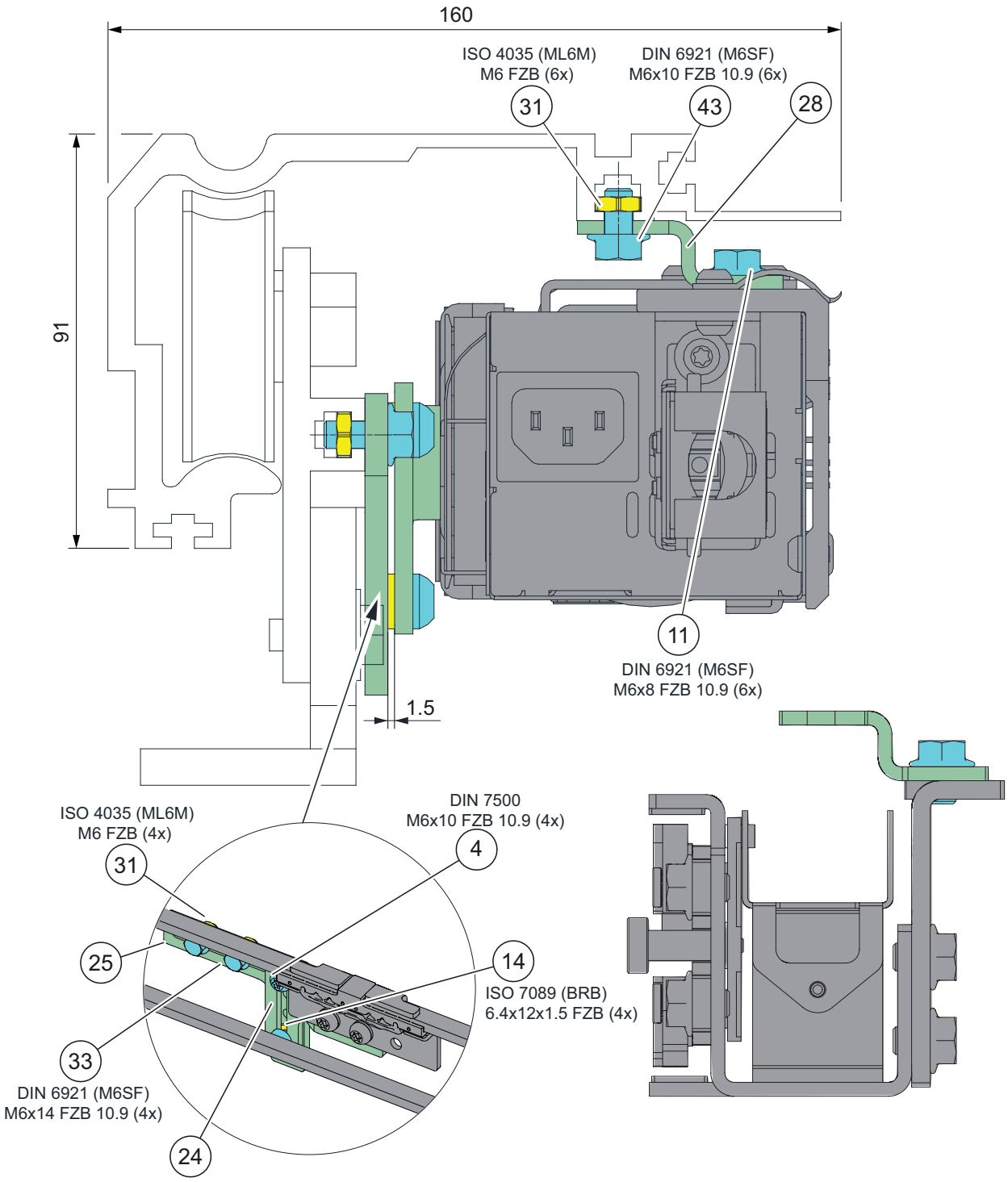
4	Screw	28	Mounting bracket
11	Screw	31	Nut
24	Connecting bracket	32	Screw
25	Bracket 1	33	Screw

Record STA12/STA14 AL



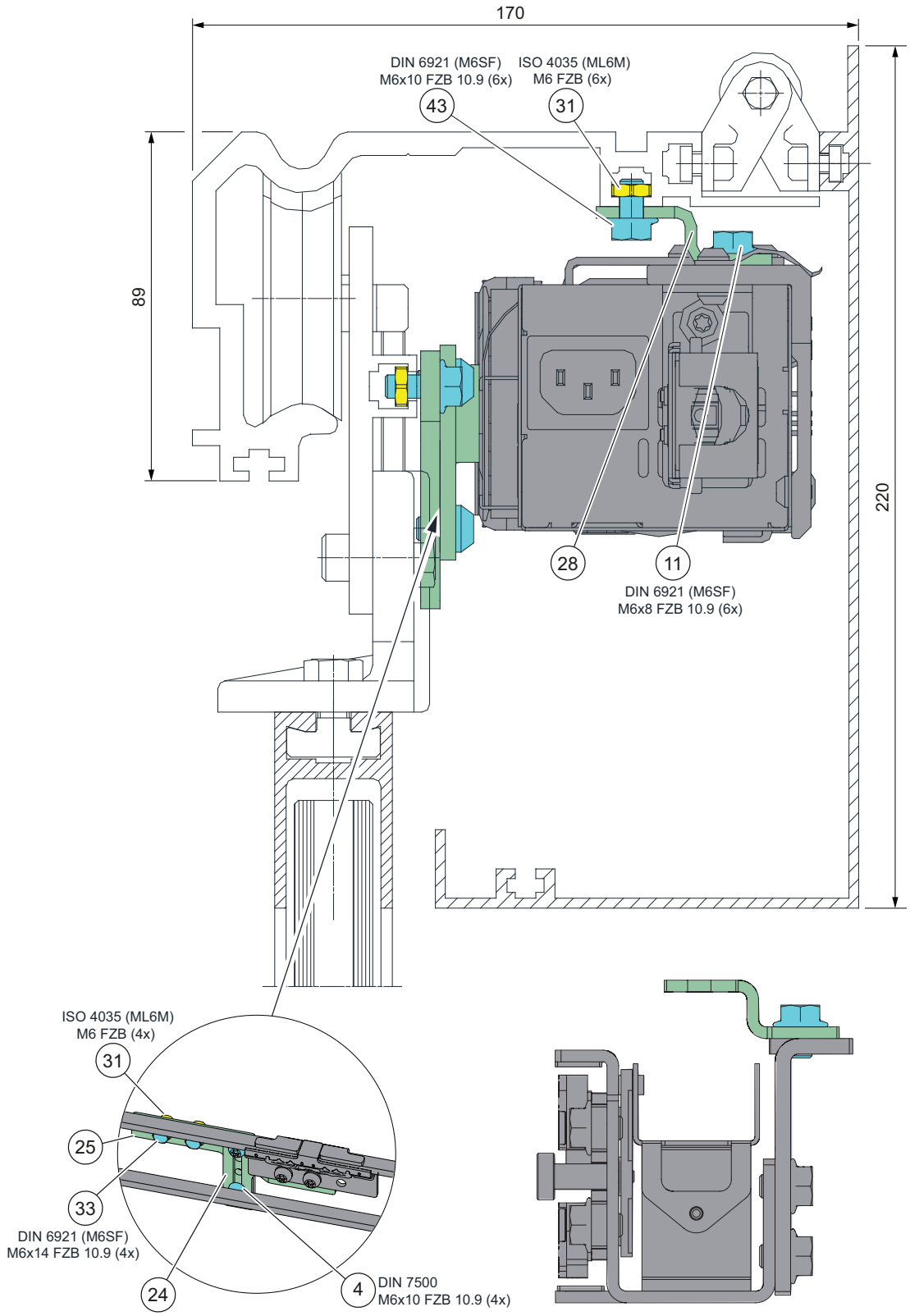
11 Screw
14 Washer
24 Connecting bracket
25 Bracket 1
32 Screw
33 Screw
35 Screw
44 Bracket 4
46 Nut

Record STA13



4 Screw
11 Screw
14 Washer
24 Connecting bracket
25 Bracket 1
28 Mounting bracket
31 Nut
33 Screw
43 Screw

Record STA15



4	Screw	28	Mounting bracket
11	Screw	31	Nut
24	Connecting bracket	33	Screw
25	Bracket 1	43	Screw

Record STA16/17

Note! * Cut the original beam to several pieces.

Bi-parting

2/3 of the original beam for backbone assembly.

1/6 of the original beam for tension wheel.

1/6 of the original beam for belt lock.

Left opening

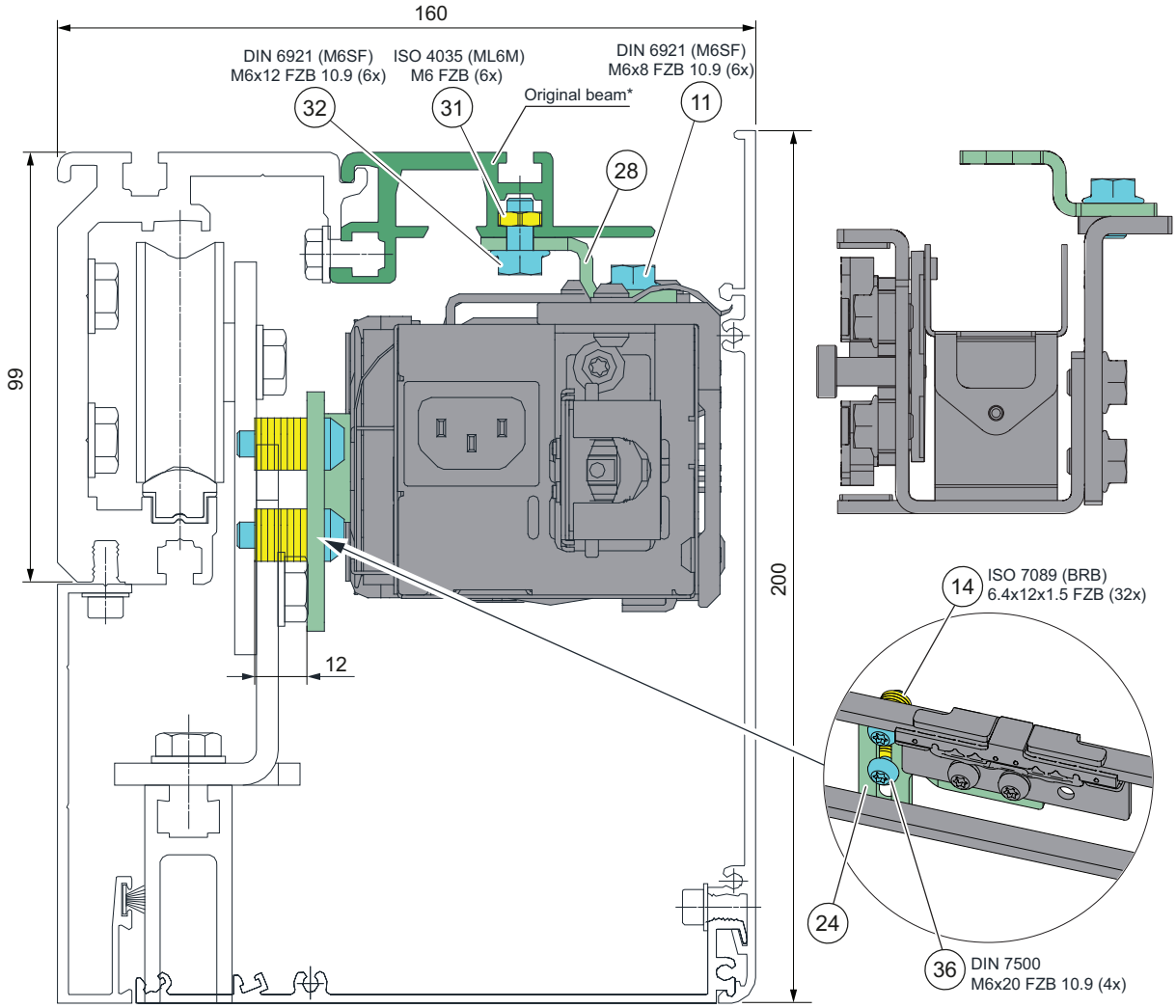
2/3 of the original beam for backbone assembly.

1/3 of the original beam for tension wheel and belt lock.

Right opening

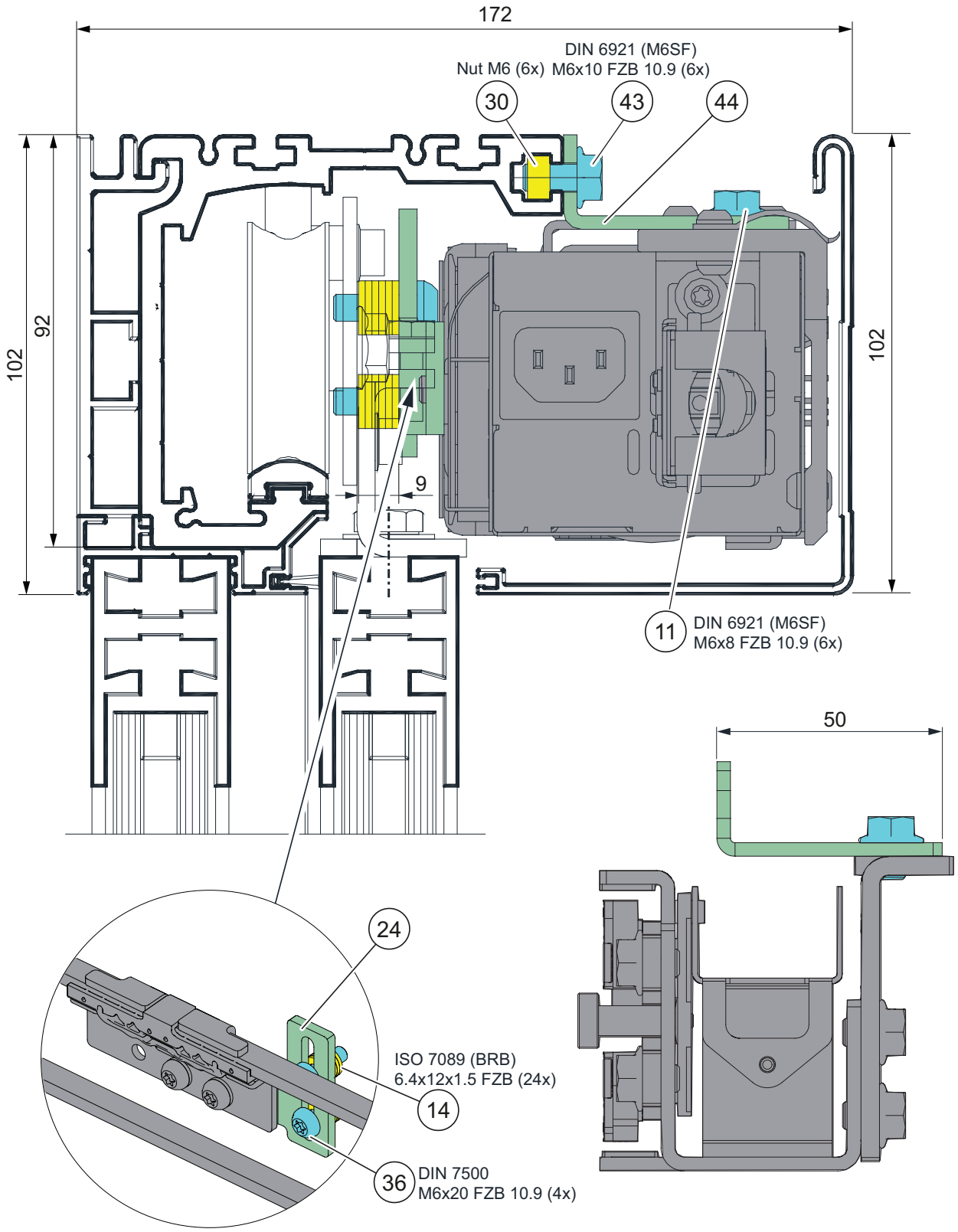
2/3 of the original beam for backbone assembly and belt lock.

1/3 of the original beam for tension wheel.



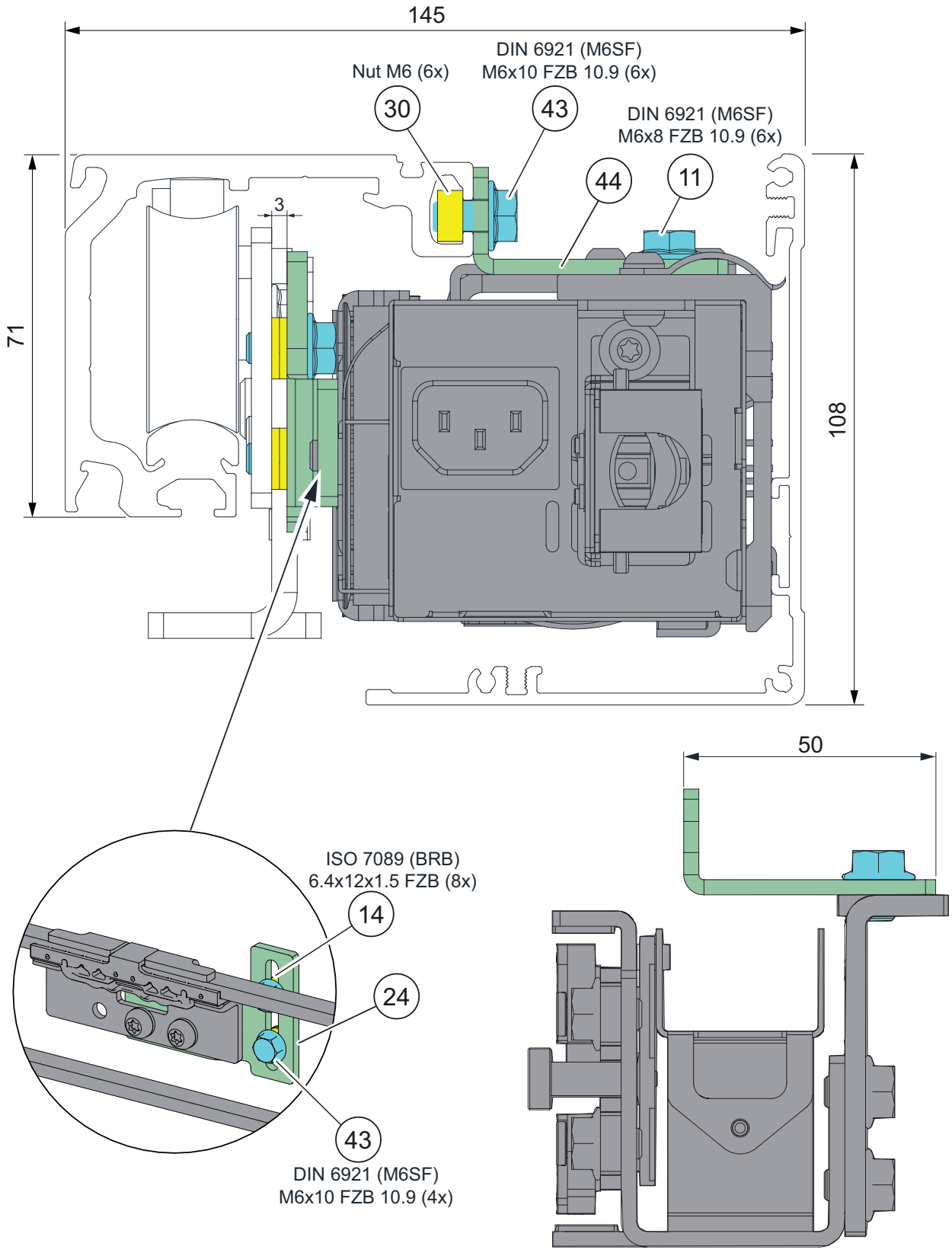
11	Screw	31	Nut
14	Washer	32	Screw
24	Connecting bracket	36	Screw
28	Mounting bracket		

Record STA19



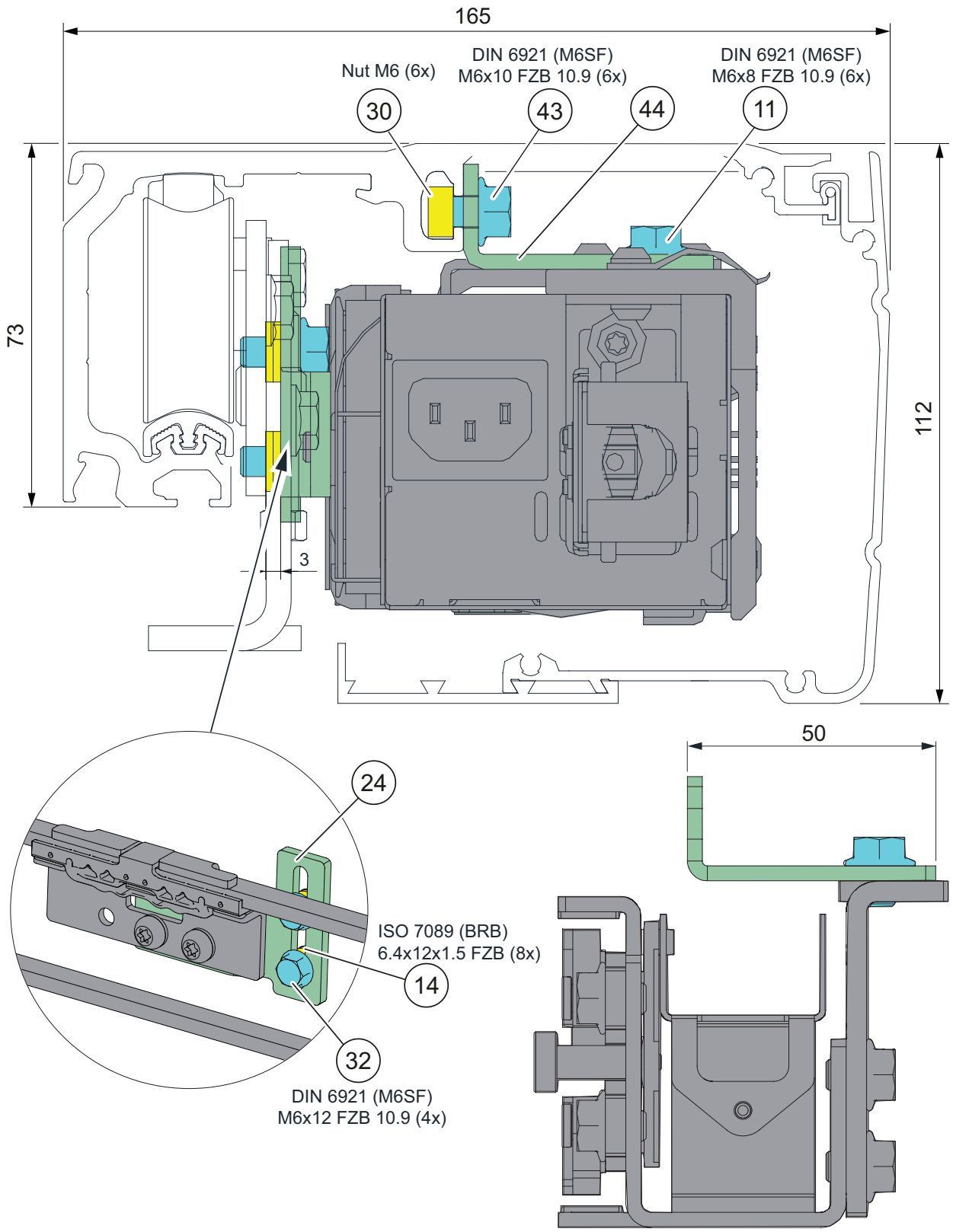
11 Screw
14 Washer
24 Connecting bracket
30 Nut
36 Screw
43 Screw
44 Bracket 4

Record STA20



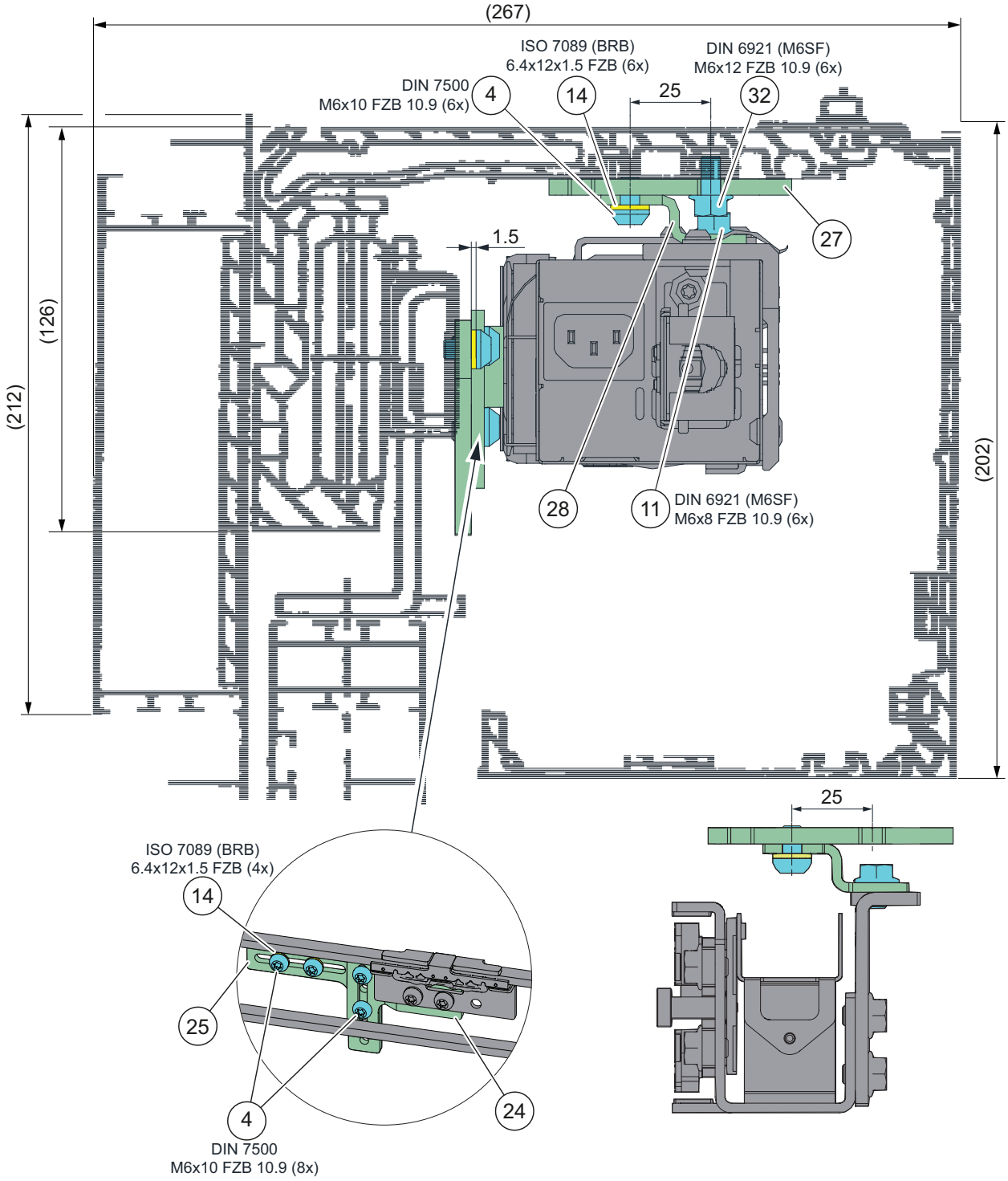
11 Screw
14 Washer
24 Connecting bracket
30 Nut
24 Connecting bracket
44 Bracket 4

Record STA21



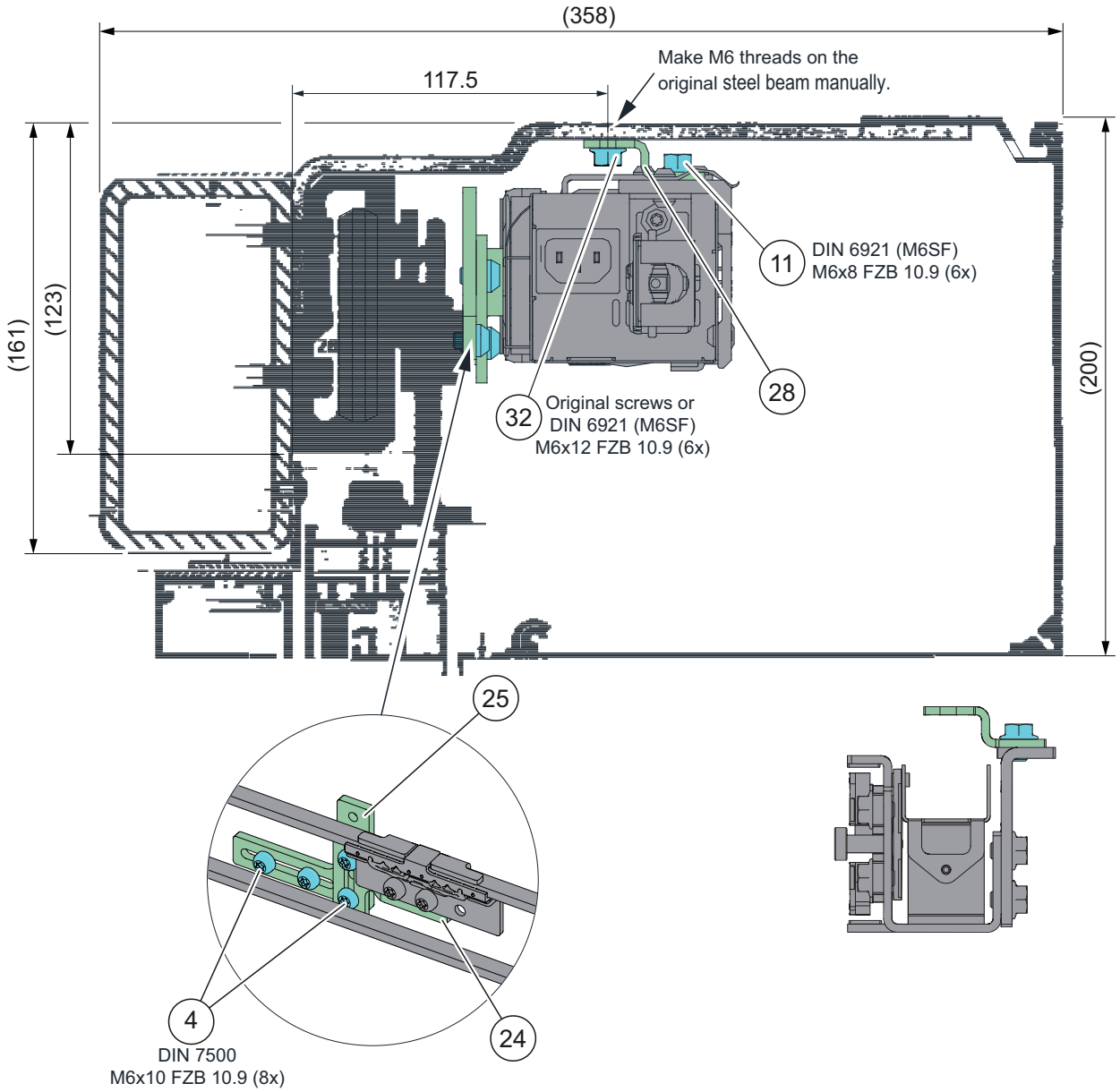
11 Screw
14 Washer
24 Connecting bracket
30 Nut
32 Screw
43 Screw
44 Bracket 4

Tormax TMP



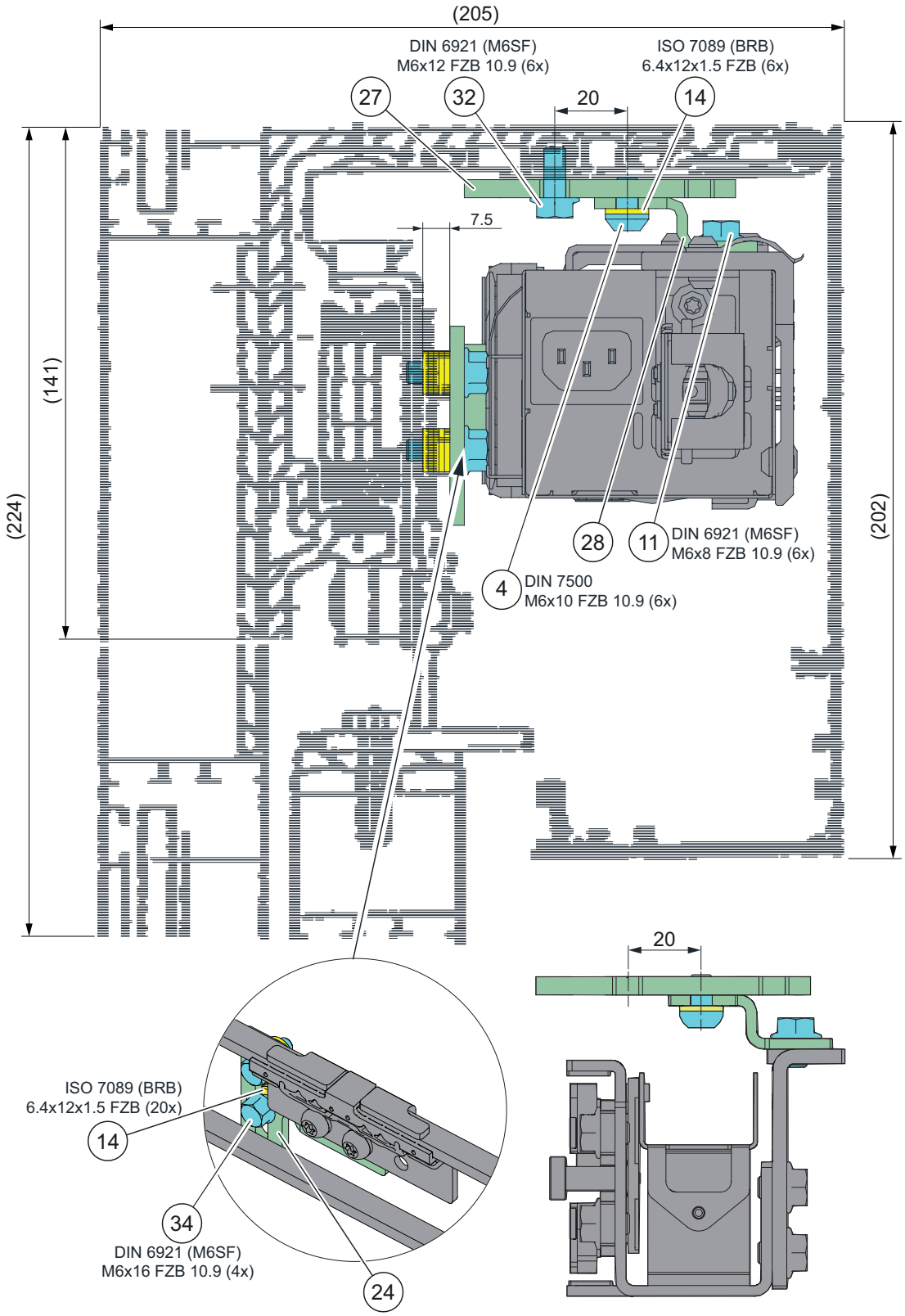
4	Screw	25	Bracket 1
11	Screw	27	Mounting plate
14	Washer	28	Mounting bracket
24	Connecting bracket	32	Screw

Tormax TX/TM/TMX



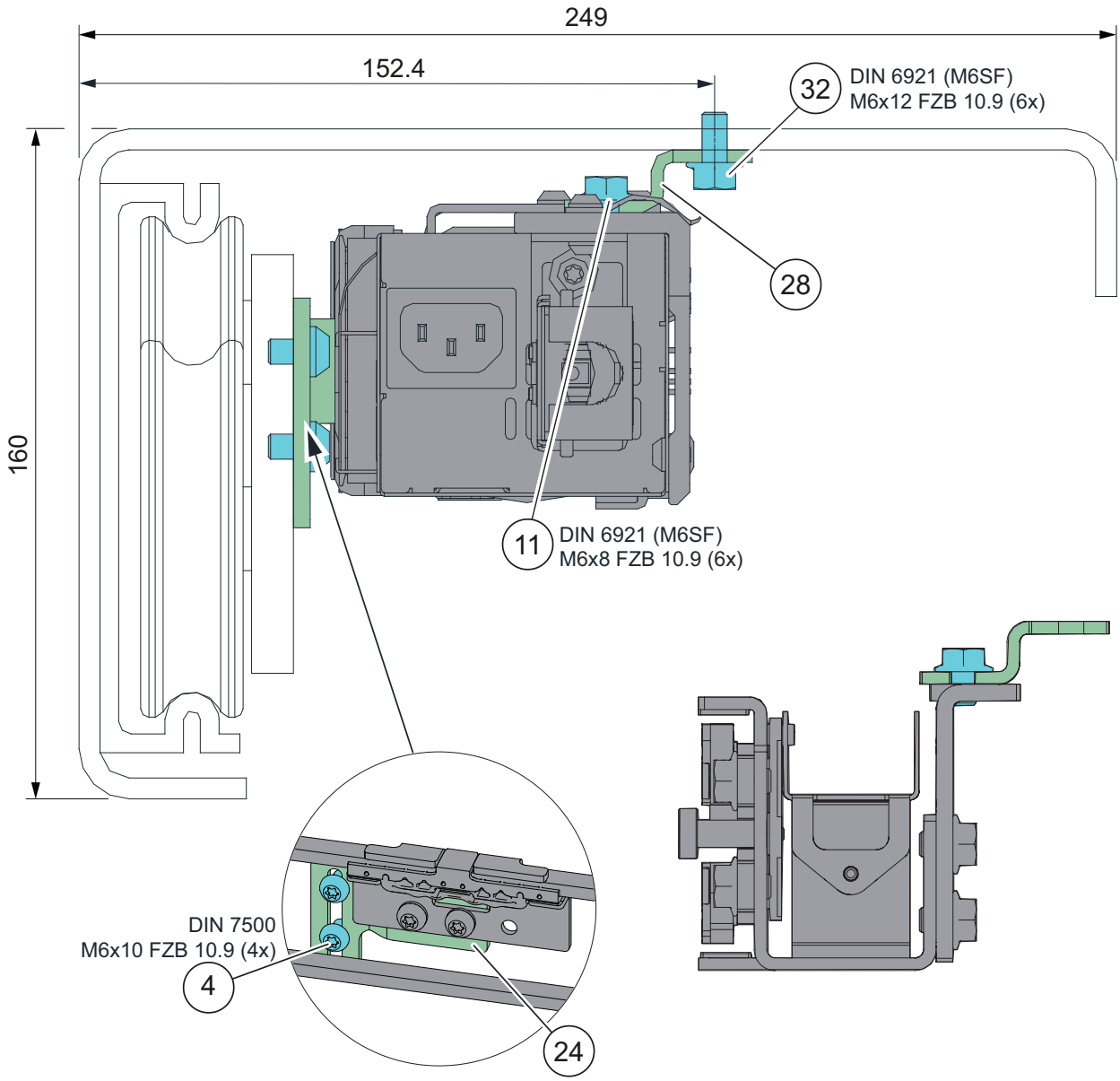
4 Screw
11 Screw
24 Connecting bracket
25 Bracket 1
24 Connecting bracket
28 Mounting bracket
32 Screw

Tormax TEP/TXP



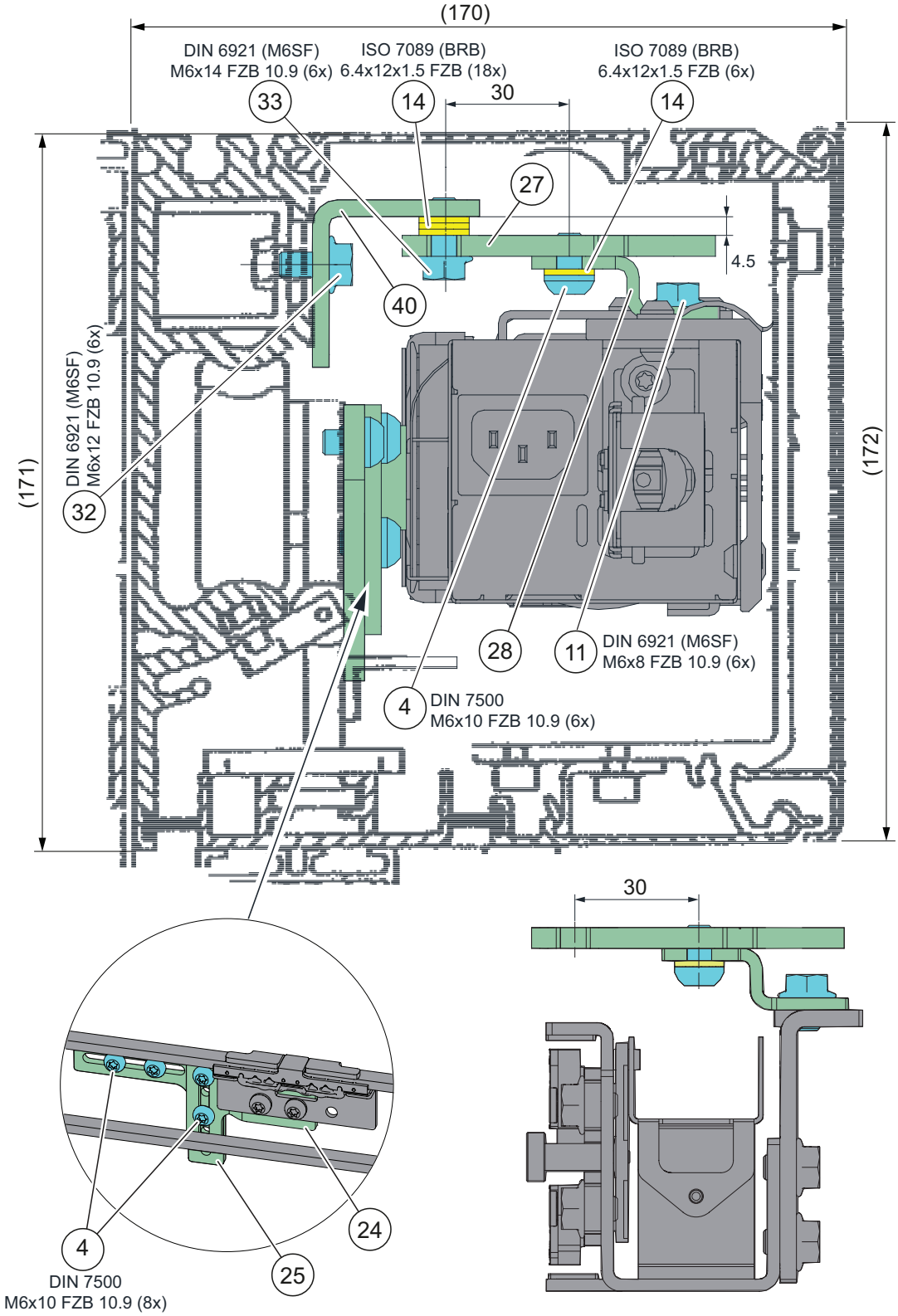
4 Screw
11 Screw
14 Washer
24 Connecting bracket
27 Mounting plate
28 Mounting bracket
32 Screw
34 Screw

Waldoor EC



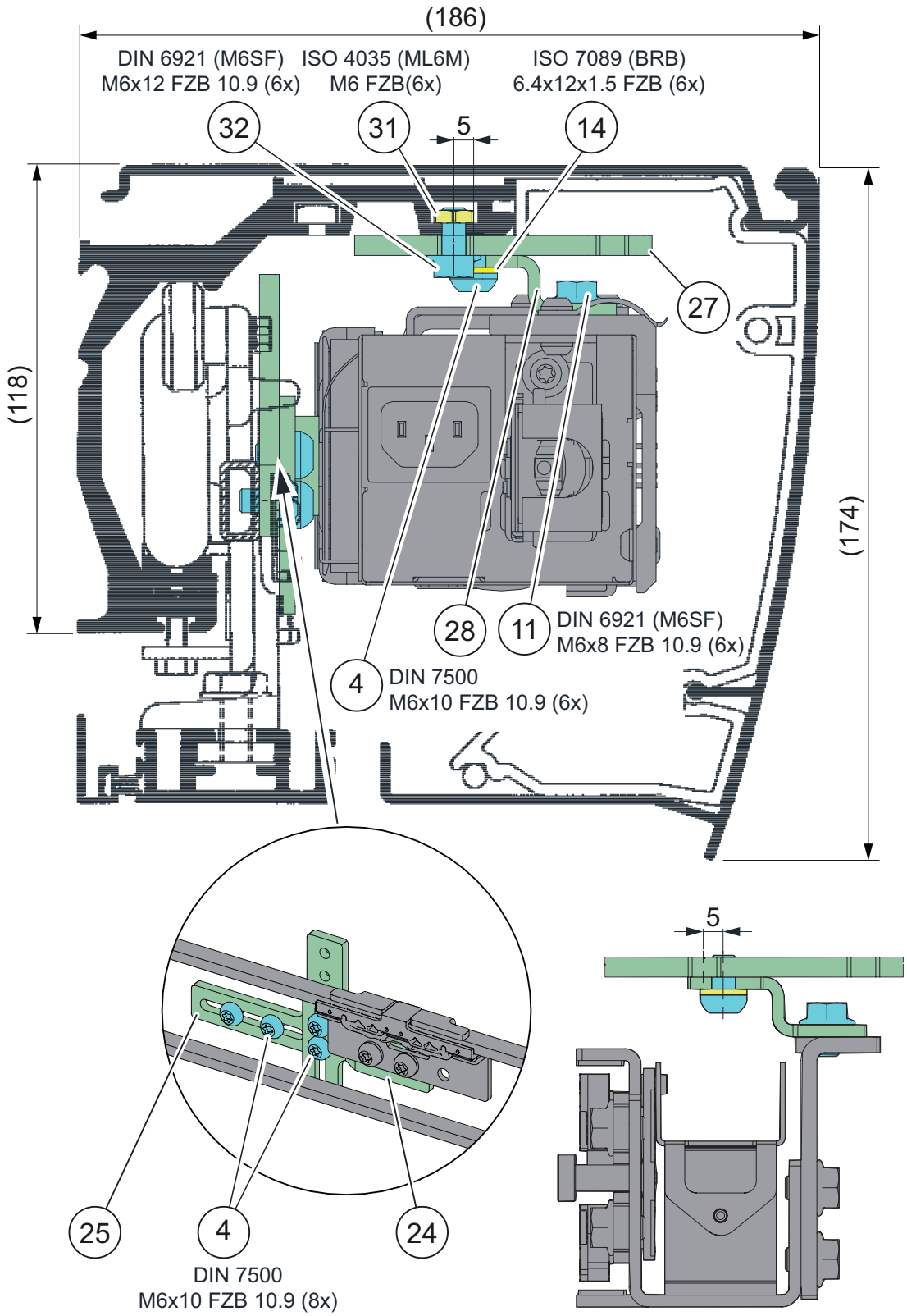
4 Screw
11 Screw
24 Connecting bracket
28 Mounting bracket
32 Screw

Waldoor UC



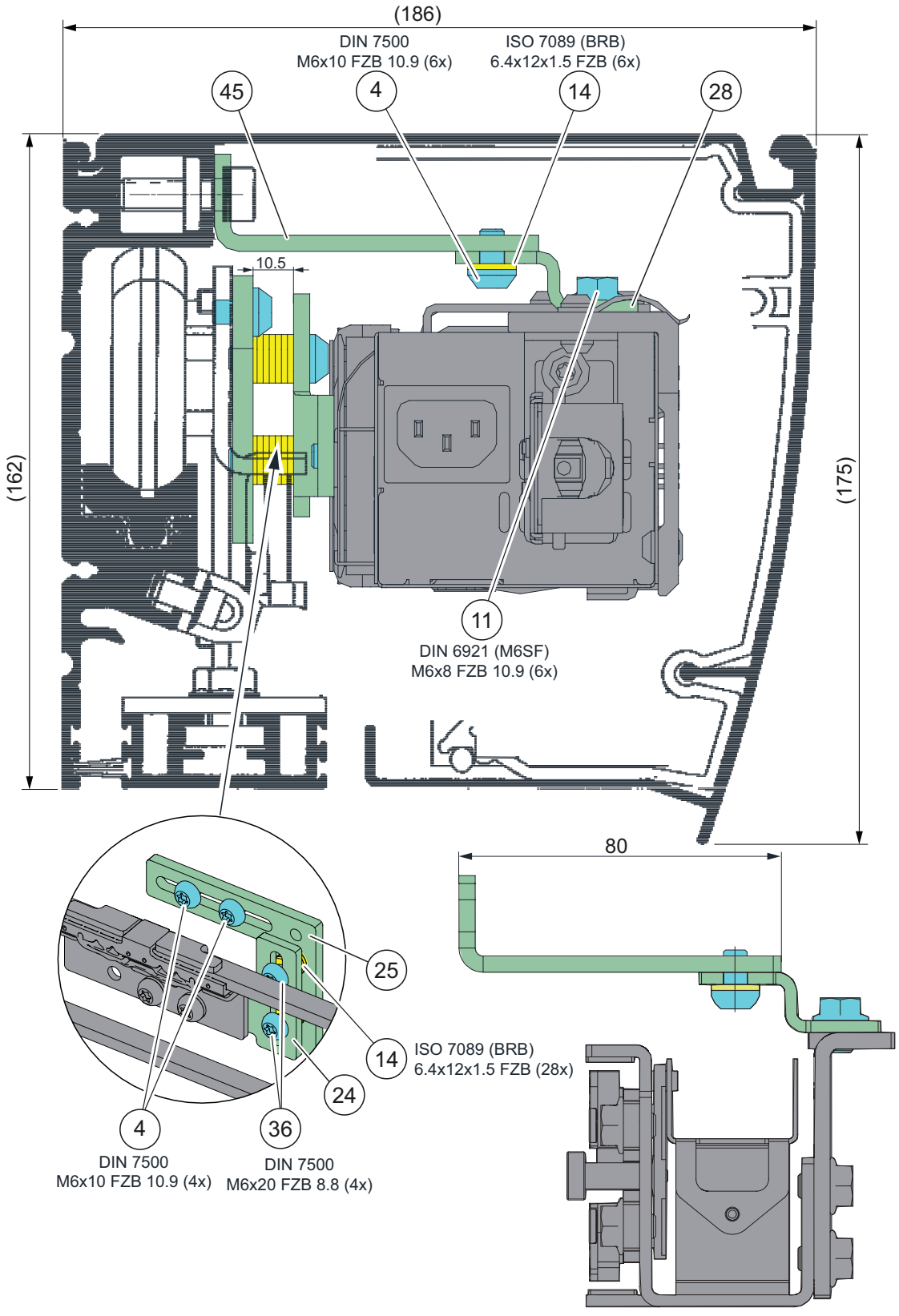
4	Screw	27	Mounting plate
11	Screw	28	Mounting bracket
14	Washer	32	Screw
24	Connecting bracket	33	Screw
25	Bracket 1	40	Bracket 2

Waldoor UWS 800



4 Screw
11 Screw
14 Washer
24 Connecting bracket
25 Bracket 1
27 Mounting plate
28 Mounting bracket
31 Nut
33 Screw

Waldoor UWS 2400

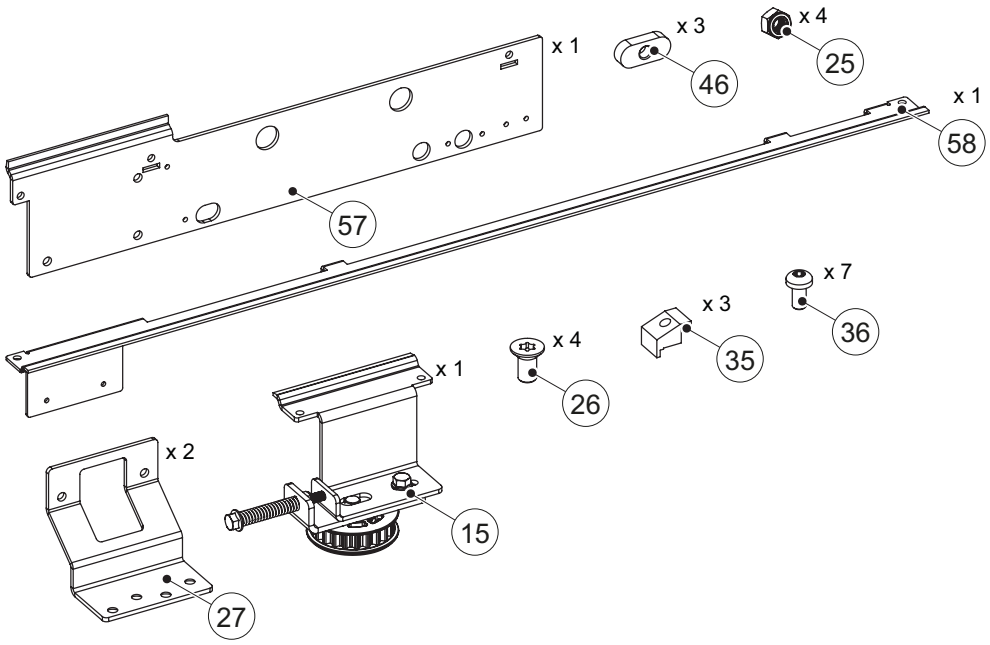


4	Screw	25	Bracket 1
11	Screw	28	Mounting bracket
14	Washer	36	Screw
24	Connecting bracket	45	Bracket 5

4.2 Ditec KS800BTX additional bracket kit for Tormax iMotion 2202

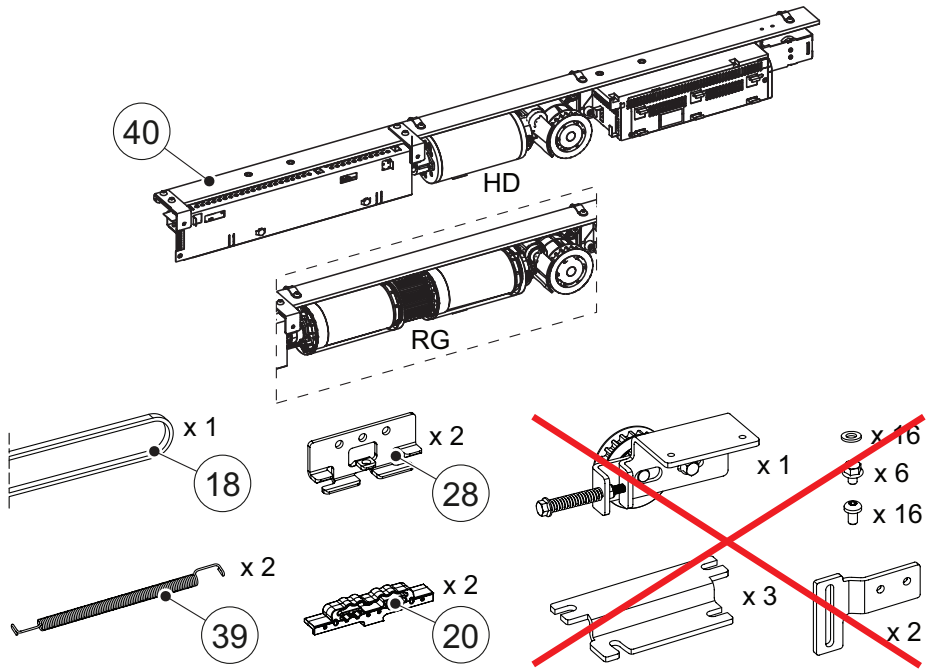
4.2.1 Preparing the components

TORMAX iMotion 2202



15 Belt Tension
25 Nut: DIN 985 M6 (M6M)
26 Screw: ISO 14581 (MFT) M6x12
27 Transmission bracket
35 Nut: M5
36 Screw: DIN 7500 M5x10
46 Nut: M6
48 Drive unit plate
49 Electronic mounting plate

KS200

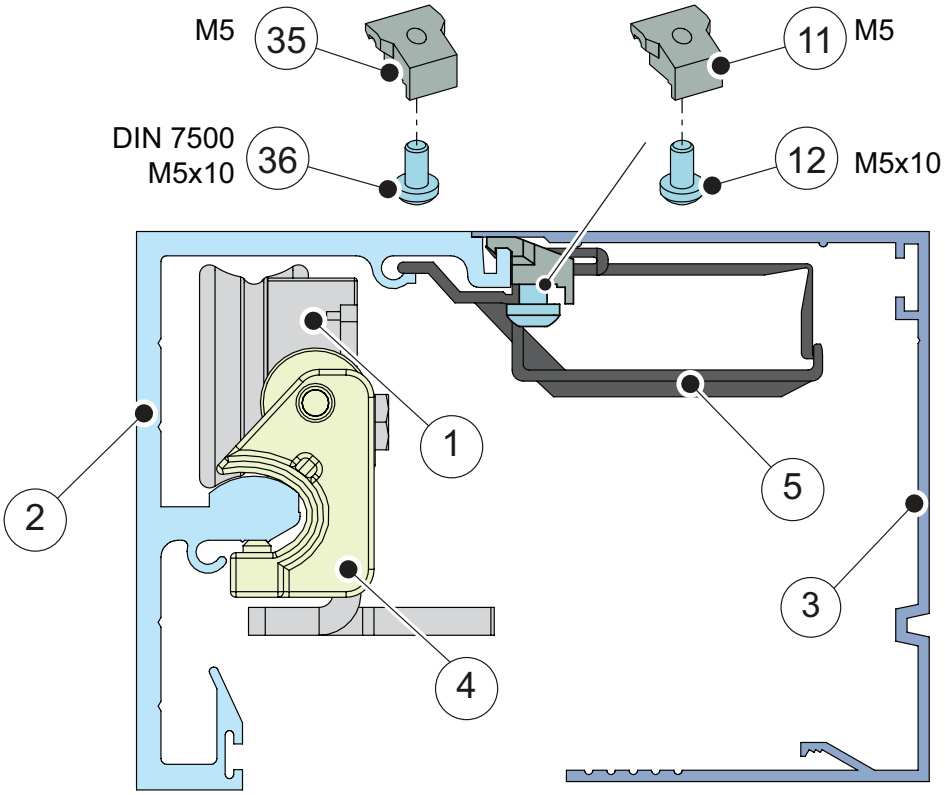


18 Tooth belt
20 Belt clamp
28 Universal transmission bracket
39 Slack reducer (Not needed, if belt lock equipped)
40 Backbone assembly

4.2.2 Preparing

a Dismount the original drive system, following components should be retained: door carriages (1), beam (2), cover set (3), door stops (4), cable holders (5), nuts (11) and screws (12).

Note! If there are not enough nuts (11) and screws (12), use the nuts (35) and the screws (36) to replace.

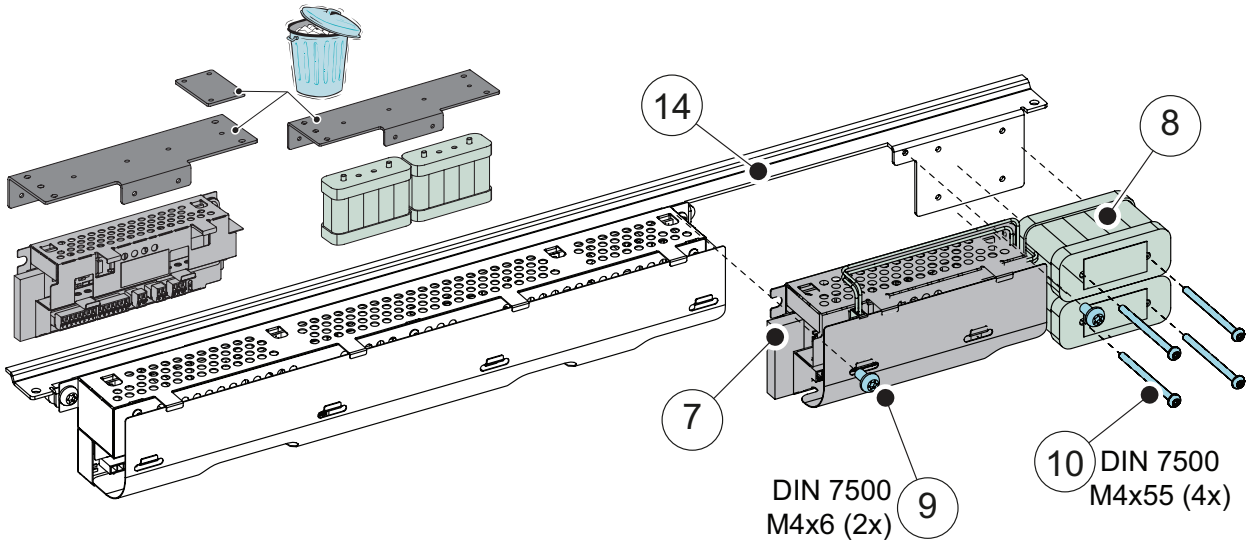


1 Door carriage
2 Beam
3 Cover set
4 Door stop
5 Cable holder
11 Nut
12 Screw
35 Nut
36 Screw

4.2.3 The IOU (KS902MP) and the battery (KS902BAT2) installation

Note! IOU must be selected when using bi-stable lock.

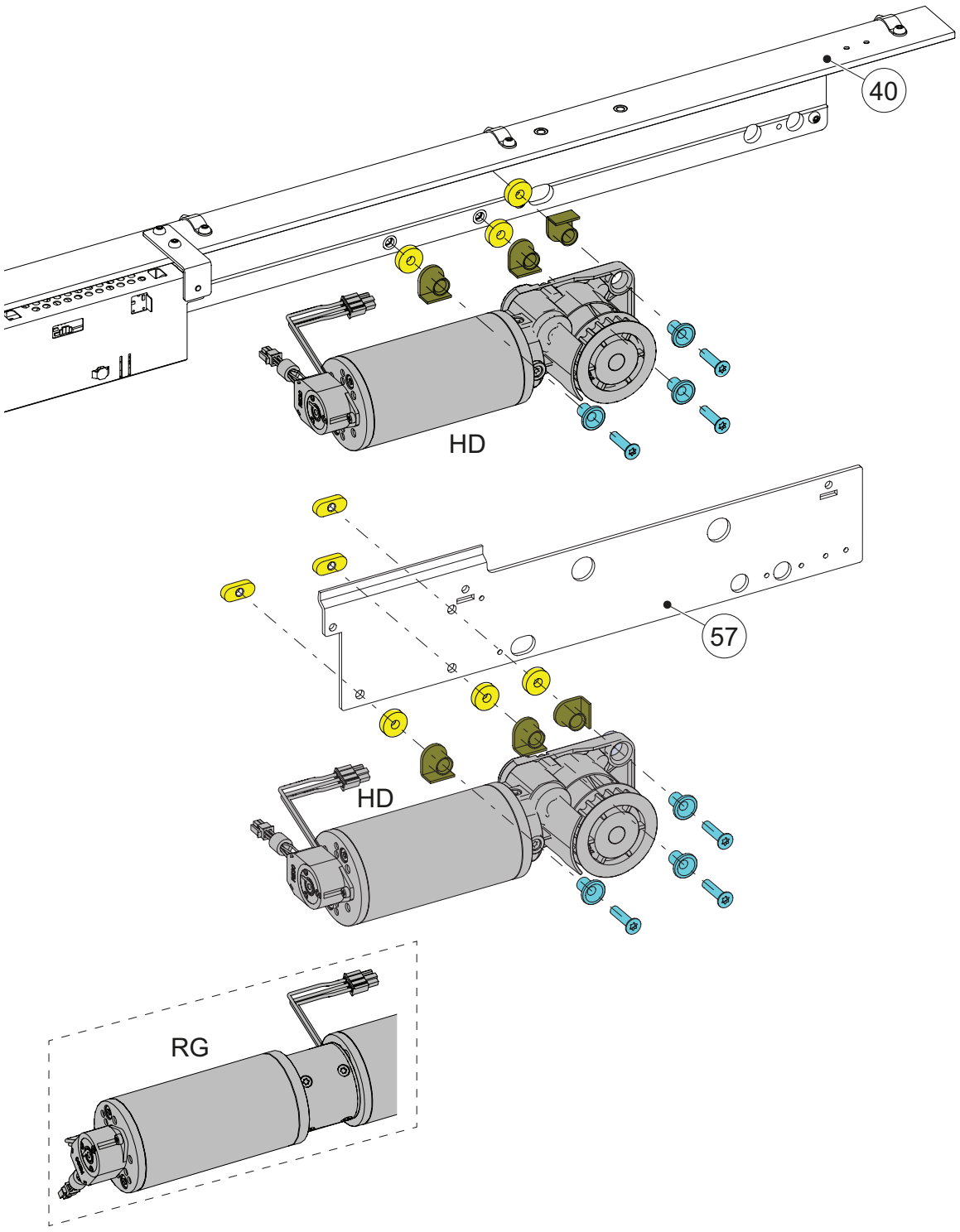
a Remove the brackets for the IOU and battery.
Fix the IOU (7) and the battery (8) to the main control assembly (14) with the screws (9) and (10).



7 IOU (KS902MP)
8 Battery (KS902BAT2)
9 Screw
10 Screw
14 Main control assembly

4.2.4 Fix the nuts and screws on the drive unit kit and the main control assembly

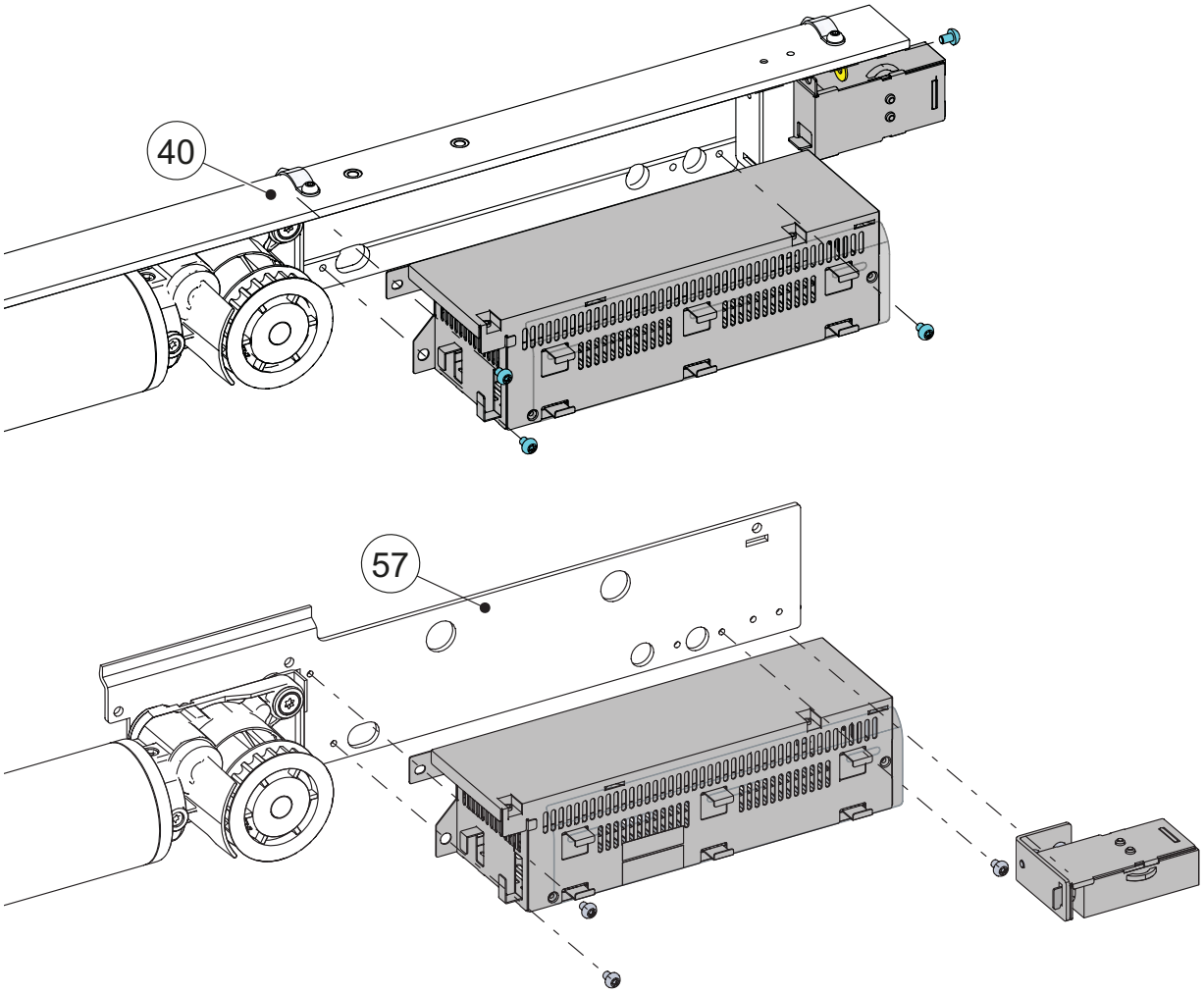
a Take off the drive unit from the Backbone assembly (40), then fix it onto drive unit plate (57) with the original screws and washeres.



40 Backbone assembly

57 Drive unit plate

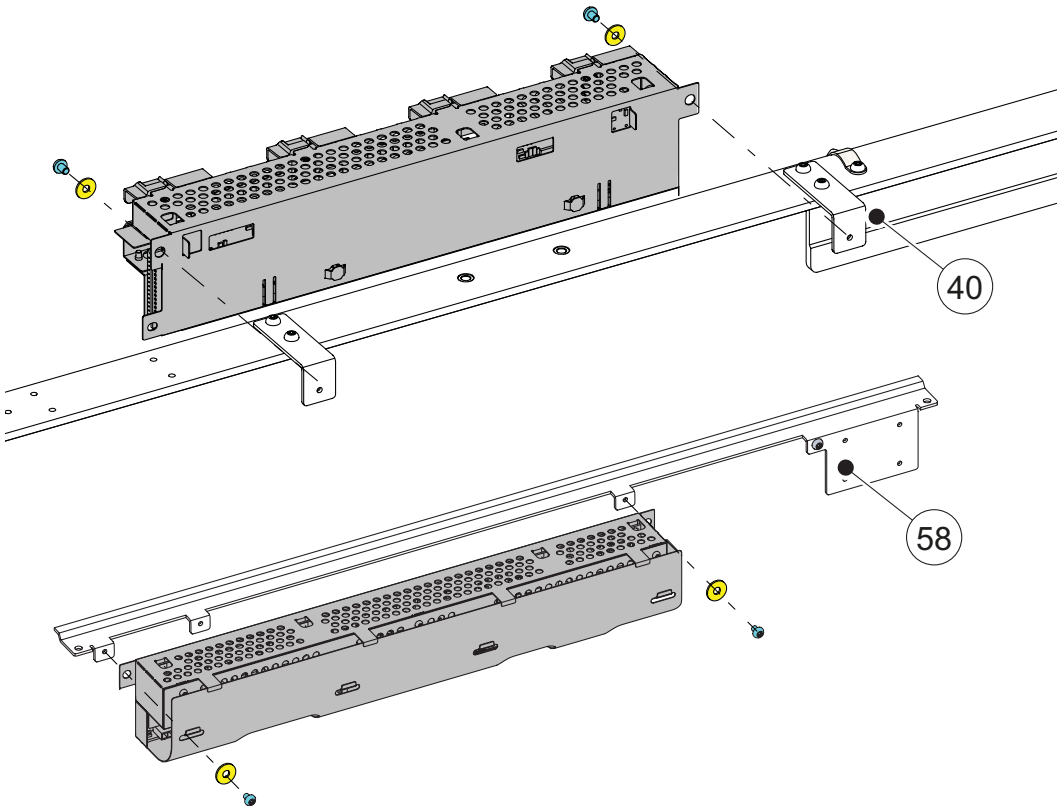
b Take off the PSU from the Backbone assembly (40), then fix it onto drive unit plate (57) with the original screws and other components.



40 Backbone assembly

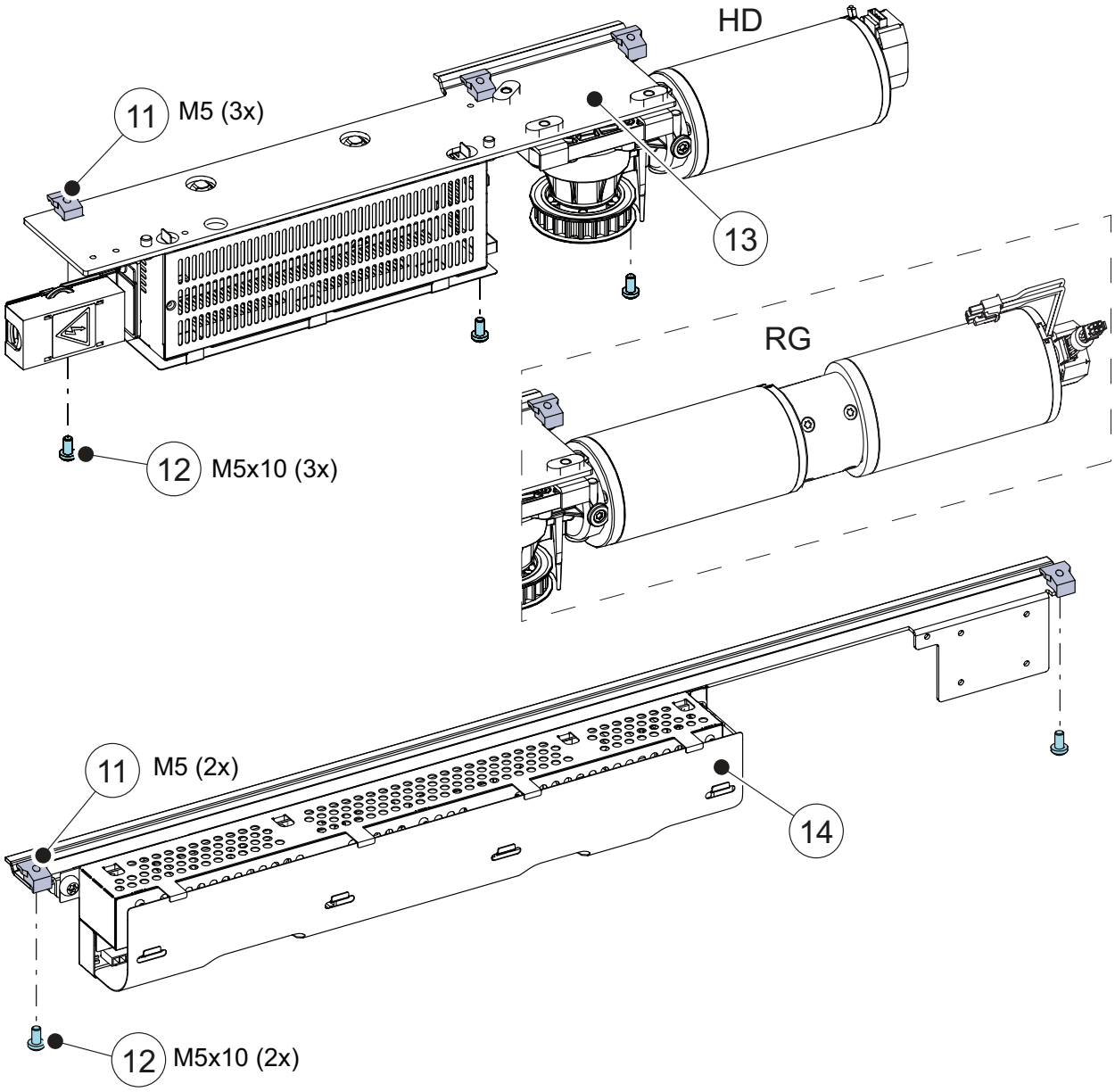
57 Drive unit plate

c Take off the MCU from the Backbone assembly (40), then fix it onto electronic mounting plate (58) with the original screws and washeres.



40 Backbone assembly
58 Electronic mounting plate

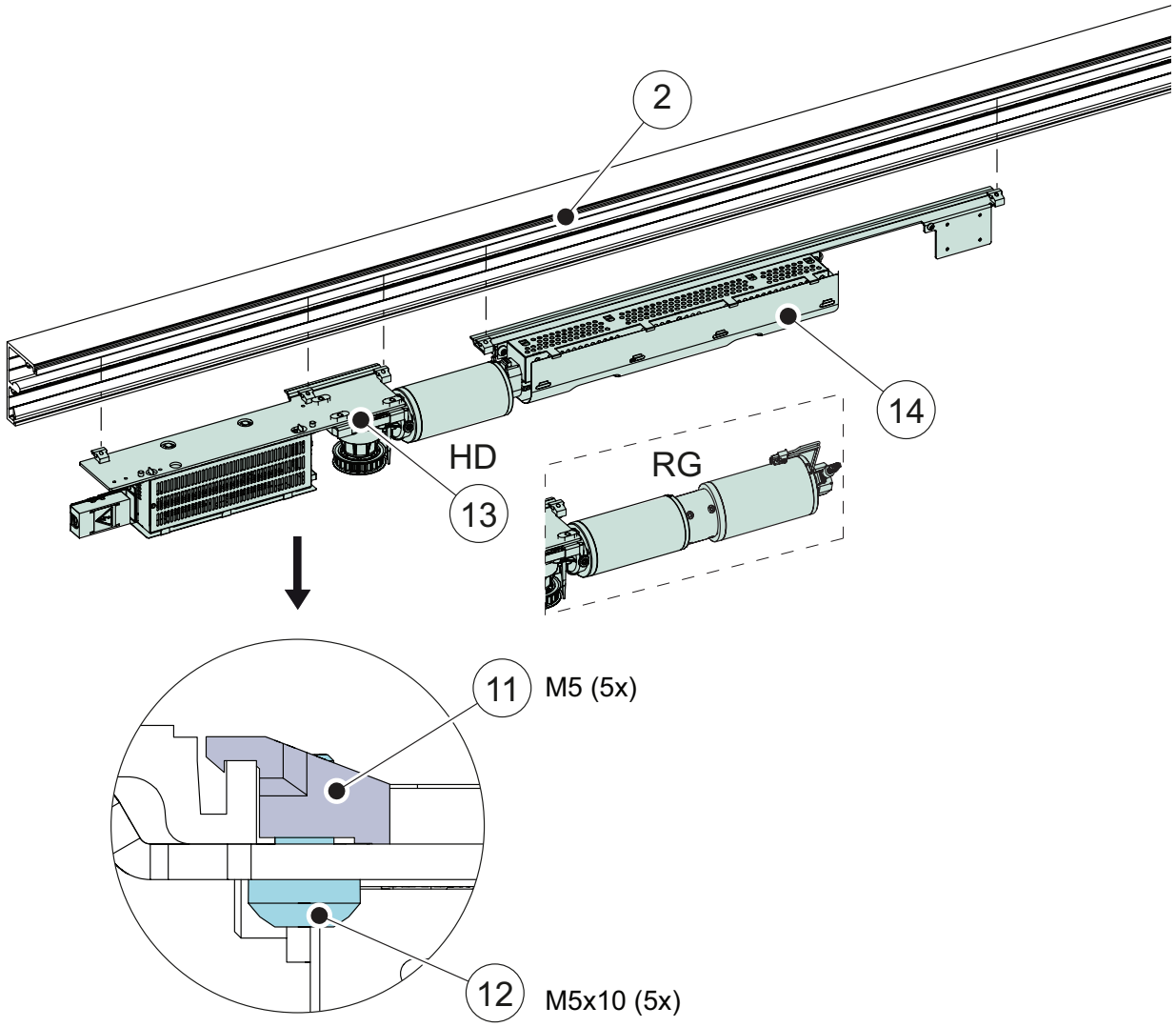
d Fix the nuts (11) to the drive unit kit (13) and main control assembly (14) with screws (12), but do not tighten the screws (12).



11 Nut
12 Screw
13 Drive unit kit (HD or RG)
14 Main control assembly

4.2.5 Fix the drive unit kit and the main control assembly

a Lift the drive unit kit (13) and main control assembly (14) to the beam (2), Then tighten the screws (12) with a **torque of 6 Nm**.

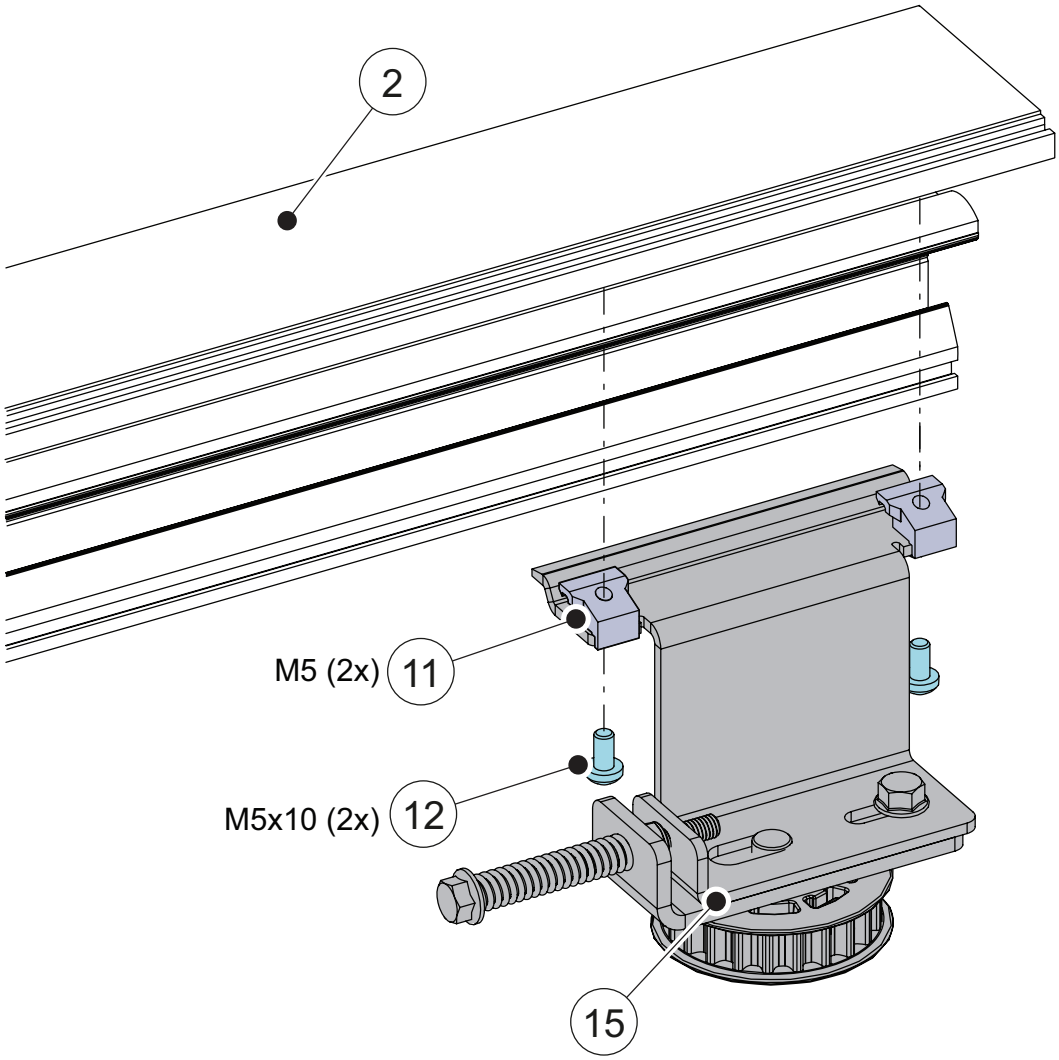


2 Beam
11 Nut
12 Screw
13 Drive unit kit (HD or RG)
14 Main control assembly

4.2.6 Fix the tension wheel assembly

a Fix the nuts (11) to the tension wheel assembly (15) with screws (12), but do not tighten the screws (12).
Lift the tension wheel assembly (15) to the beam (2), do not tighten the screws (12) fully, so it shall be able to slide along the beam (2).

b The position of the tension wheel assembly (15) should be as close as possible to the drive unit, but make sure that the tension wheel assembly (15) will not interfere with the door carriage when the door is fully opened.

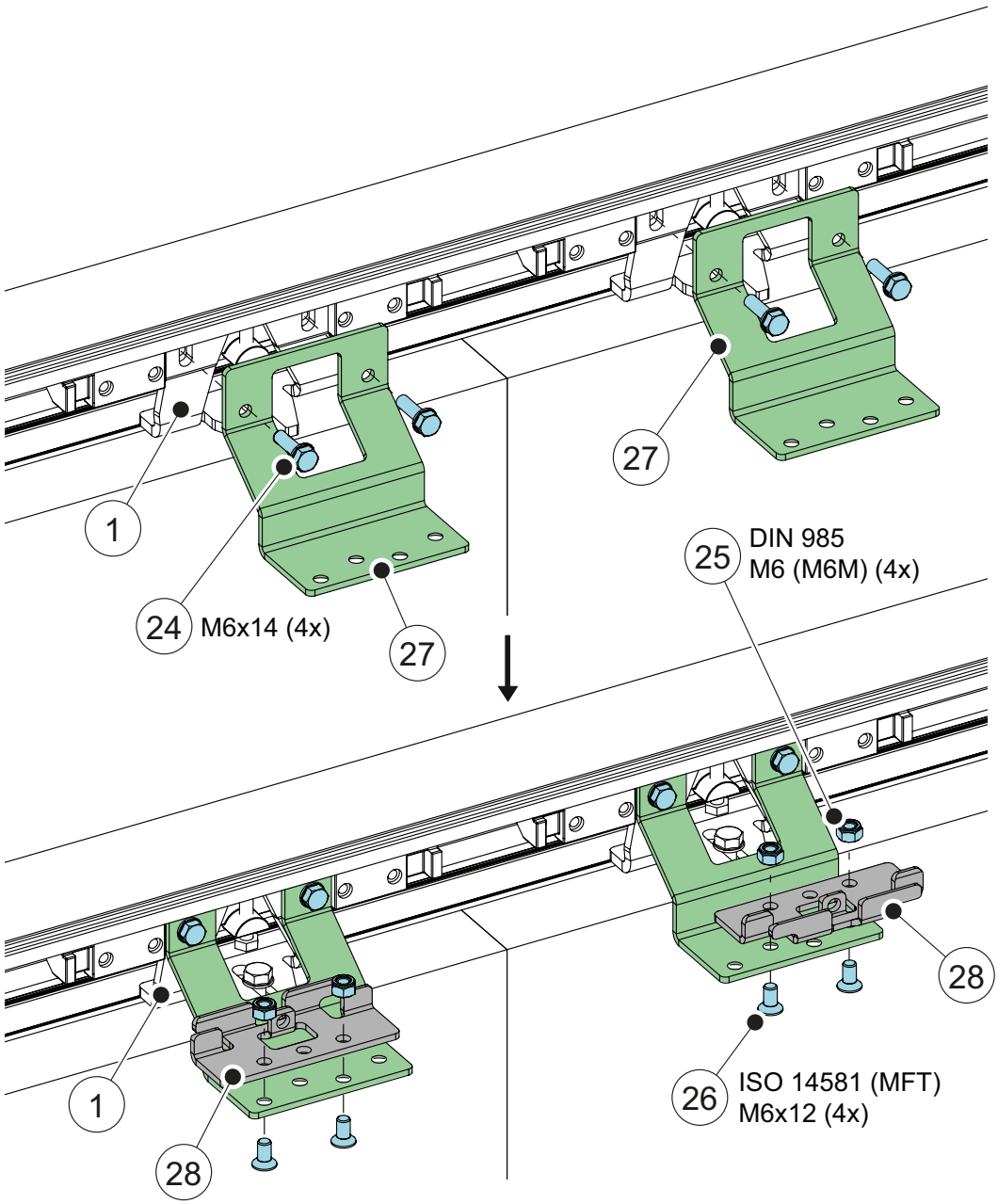


2 Beam
11 Nut
12 Screw
15 Tension wheel assembly

4.2.7 Fix the transmission brackets

a Unscrew the existing screws (24), fix the transmission brackets (27) and the universal transmission brackets (28) to the door carriages (1) with the screws (24) and (26).

Note! The door leaves should be holded firmly when unscrew the the existing screws (24) on the door carriers (1).



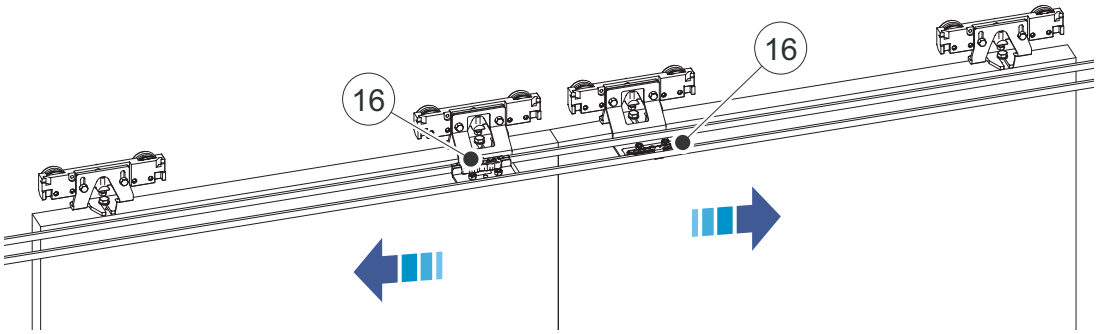
1 Door carriage
24 Existing screw
25 Nut
26 Screw
27 Transmission bracket
28 Universal transmission bracket

4.2.8 Placement of the transmission brackets

Bi-parting opening

The transmission bracket (16) on the left door leaf shall be connected to the inner belt.

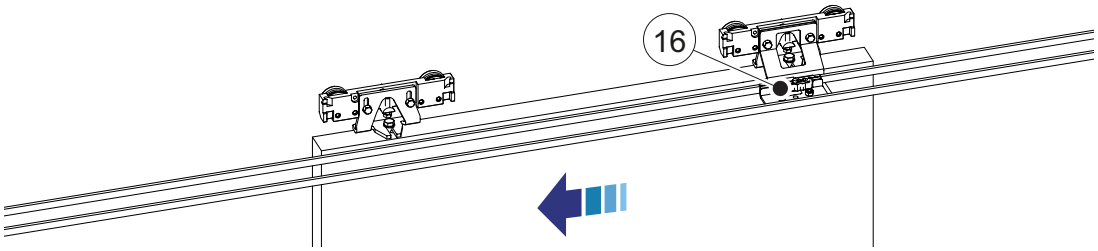
The transmission bracket (16) on the right door leaf shall be connected to the outer belt.



16 Transmission bracket

Single left opening

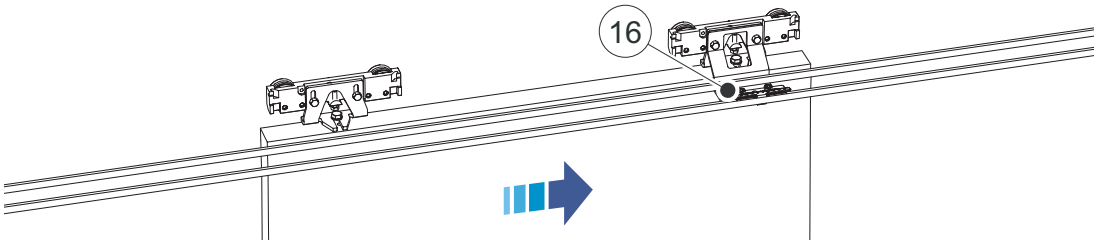
The transmission bracket (16) shall be connected to the inner belt.



16 Transmission bracket

Single right opening

The transmission bracket (16) shall be connected to the outer belt.



16 Transmission bracket

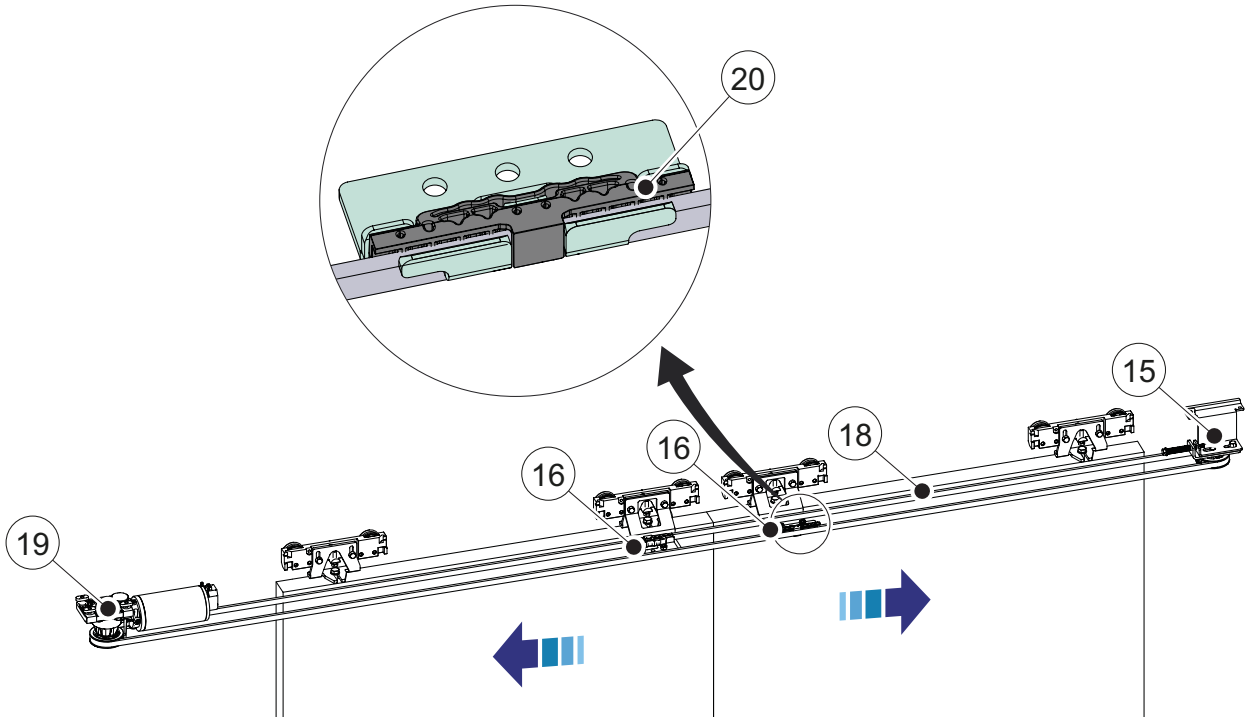
4.2.9 Attachment of the tooth belt

a Cut the tooth belt (18) to the right length if needed. Route the tooth belt (18) around the drive unit pulley (19) and around the tension wheel assembly (15).

b For bi-parting doors the belt ends are joined with the belt clamp (20) in the outer part of the tooth belt (18).

c Click the belt clamp (20) into position.

Note! Do not adjust parameter P12!



15 Tension wheel assembly
16 Transmission bracket
18 Tooth belt
19 Drive unit pulley
20 Belt clamp

4.2.10 Checking and adjusting the belt tension

a Loosen the fixing screw (32) without removing it.

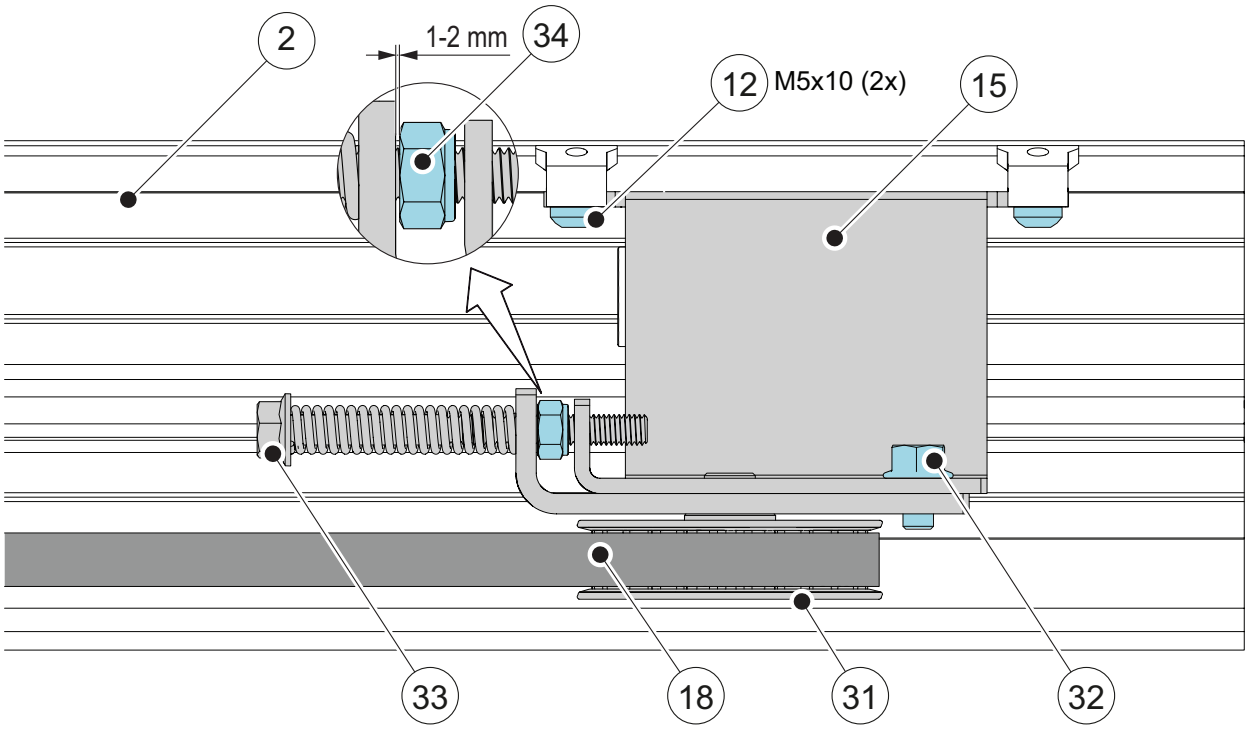
b Screw the adjustment screw (33) to its outmost position.

c Tension the tooth belt (18) by pulling the tension wheel assembly (15) by hand. Tighten the screws (12) with a **torque of 6 Nm**.

d Tighten the adjustment screw (33) until there is a gap of approx. 1-2 mm between the lock nut (34) and the bracket according to illustration below, but not further. Be sure not to overtighten.

e Retighten the fixing screw (32) with a **torque of 10 Nm**.

Note! Do not make any adjustment on the lock nut (34).



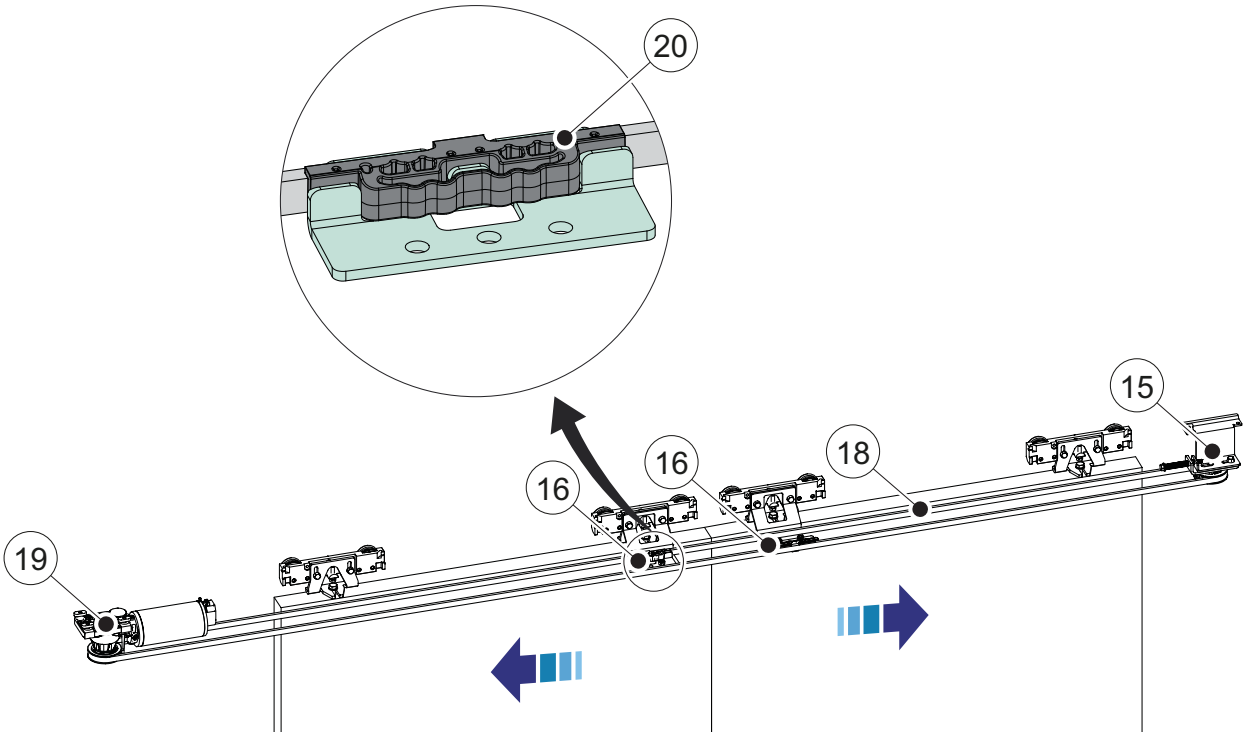
2 Beam
12 Screw
15 Tension wheel assembly
18 Tooth belt
31 Tension wheel
32 Fixing screw
33 Adjustment screw
34 Lock nut

4.2.11 Bi-parting operators

a Put doors in fully closed position. Make sure that the doors trailing edge is align with the side light.

b Click the belt clamp (20) into position in the inner transmission bracket (16).

c Check door panels for proper centering in the fully closed and opened positions.



15 Tension wheel assembly
16 Transmission bracket
18 Tooth belt
19 Drive unit pulley
20 Belt clamp

4.2.12 Attachment of slack reducer

Attach the slack reducer between the eighth and ninth belt tooth on each side of the low transmission bracket. If two slack reducers are needed put the second slack reducer in the same way under the upper transmissions bracket.

Note! Slack reducer not needed if belt lock equipped.

Single doors

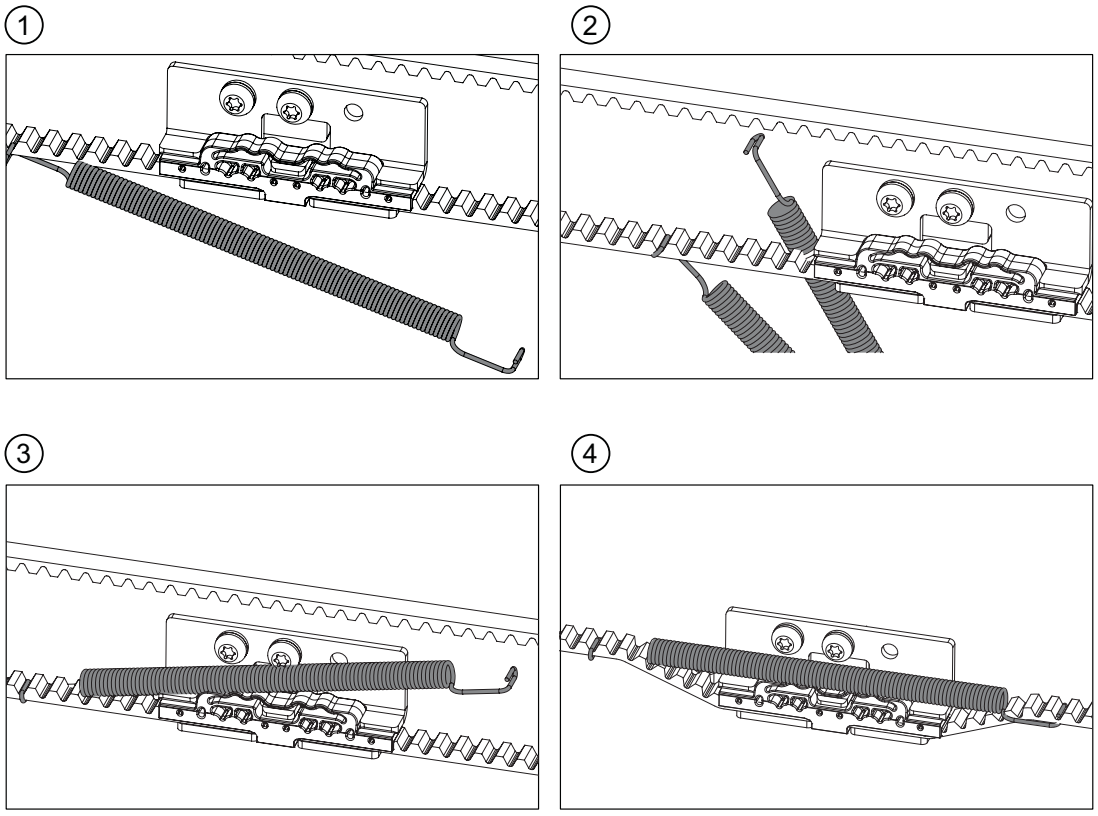
If the belt length is more than 4700 mm, there shall be one slack reducer.

Double doors

If the belt length is more than 5700 mm, there shall be two slack reducers.

In all other cases

In all other cases, then above, there will not be any slack reducers in the operator.

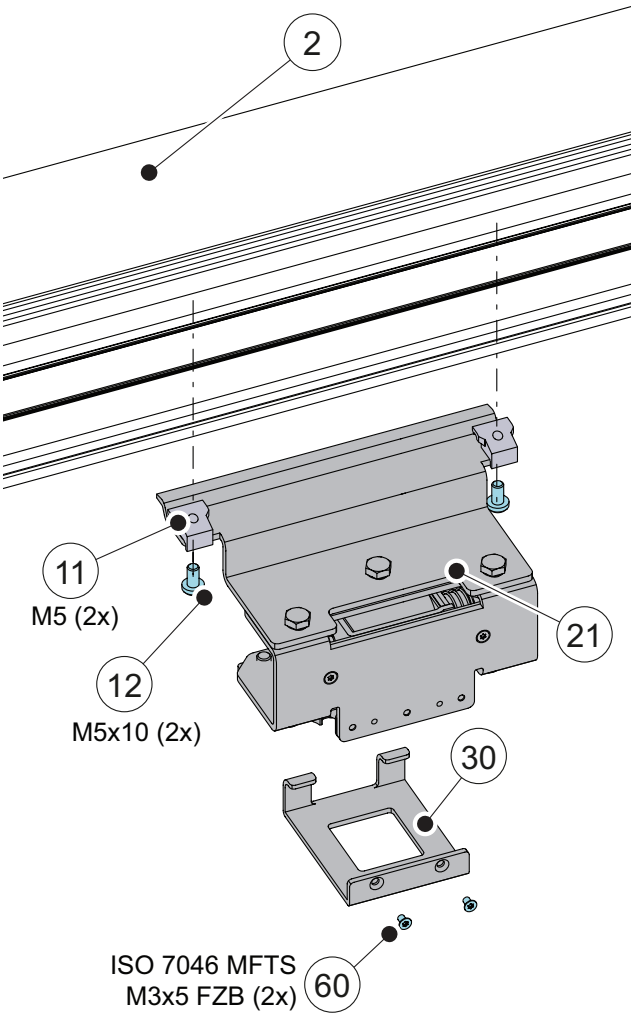


4.2.13 Install the belt lock (KSFB3LOCK) (option)

a Fix the nuts (11) to the belt lock (21) with screws (12), but do not tighten the screws (12). Lift the tooth belt lock (21) to the beam (2), then tighten the screws (12) with a **torque of 6 Nm**.

b Fix the belt to belt lock (21).

c Fix the belt guide (30) to the belt lock (21) with the screws (60).



11 Nut
12 Screw
21 Belt lock
30 Belt guide
60 Screw

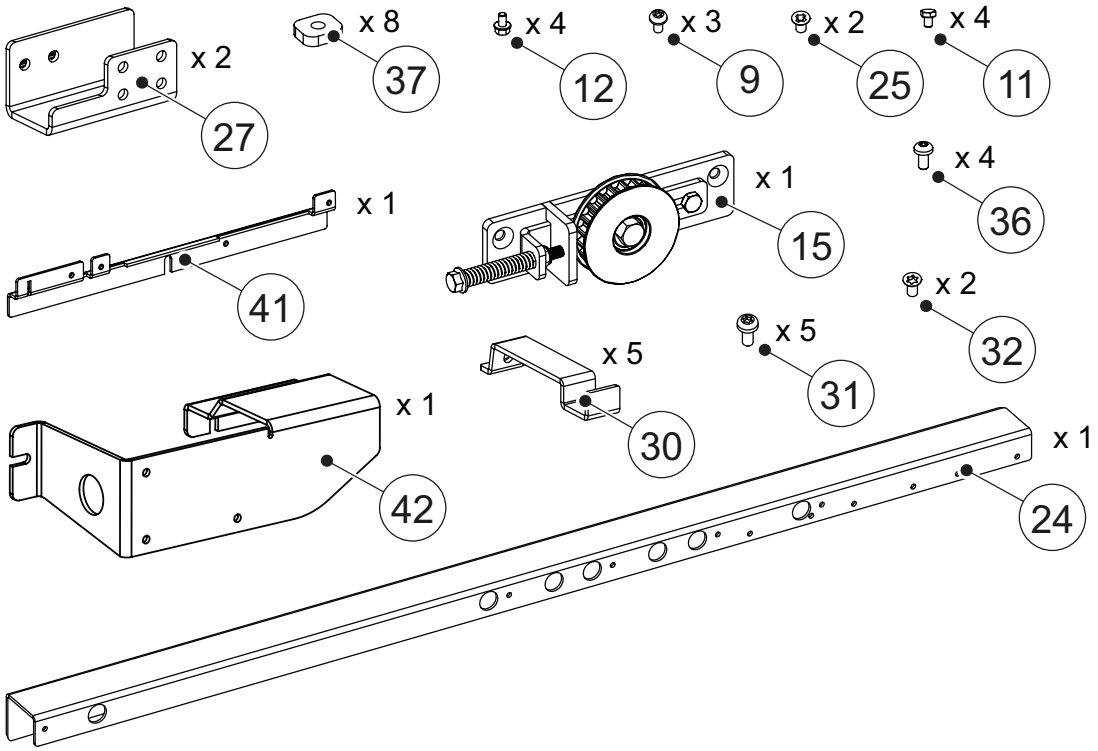
For electrical connection, start up and parameter setting, please refer to DAS200 Installation Manual using the following QR code.

https://www.ditecentrematic.com/Entrematic/ditecentrematicCOM/QR/Multilanguages/DAS200/DitecDAS200.pdf

4.3 KS800BGZ additional bracket kit for GEZE Slimdrive SL NT

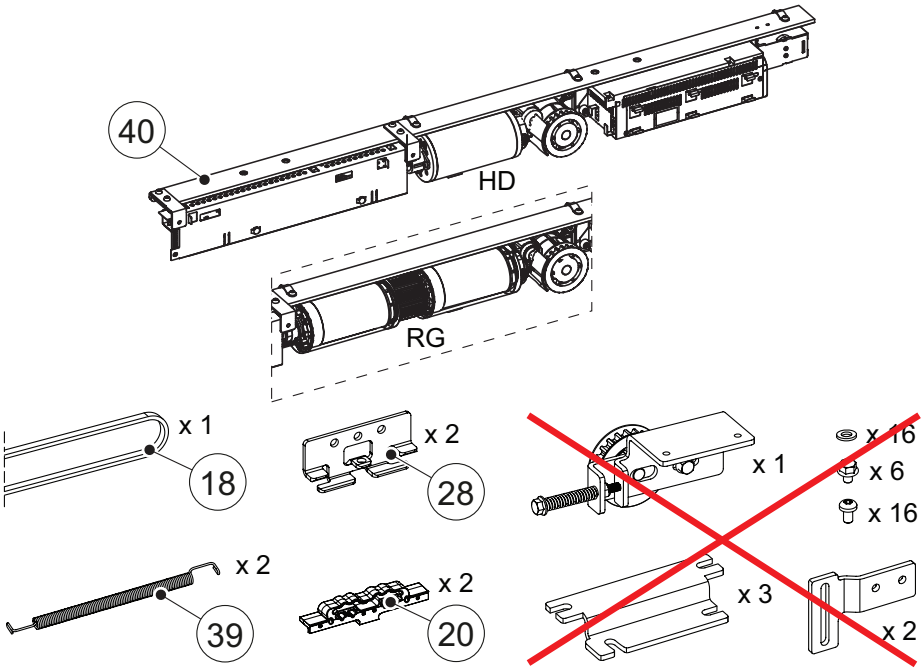
4.3.1 Preparing the components

GEZE Slimdrive SL NT



9 Screw: DIN 7500 M4x6
(Use them to replace if needed.)
11 Screw: ISO 4014 (M6S) M6x8
12 Screw: DIN 6921 (M6SF) M6x10
15 Tension wheel assembly
24 Mounting plate
27 Transmission bracket
30 Cable bracket
31 Screw: ISO 14585 ST 4.2x9.5
32 Screw: ISO 14581 (MFT) M6x12
36 Screw: DIN 7500 M5x10
37 Nut: M6
41 PSU bracket
42 Drive motor mounting plate

KS200

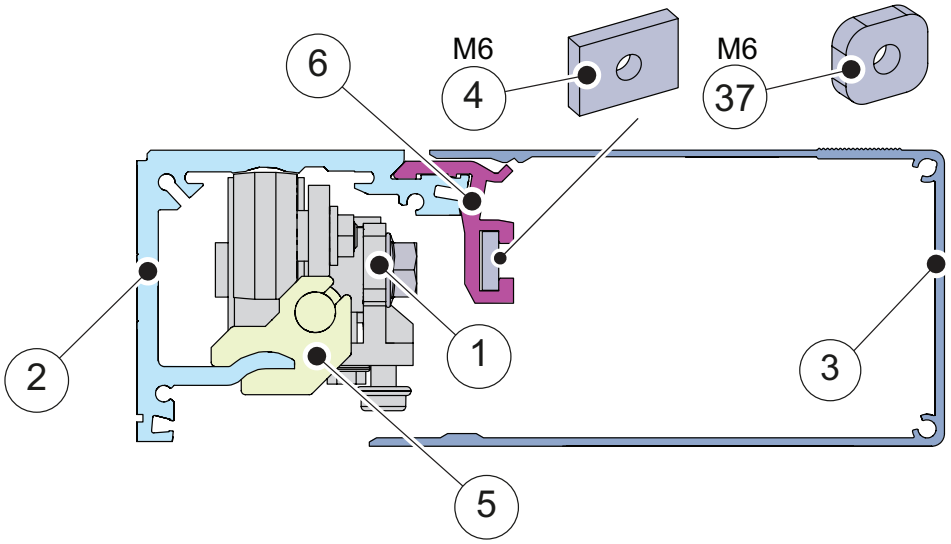


18 Tooth belt
20 Belt clamp
28 Universal transmission bracket
39 Slack reducer (Not needed if belt lock equipped)
40 Backbone assembly

4.3.2 Preparing

a Dismount the original drive system, following components should be retained: door carriages (1), beam (2), cover set (3), square nuts (4), door stops (5) and extension beams (6).

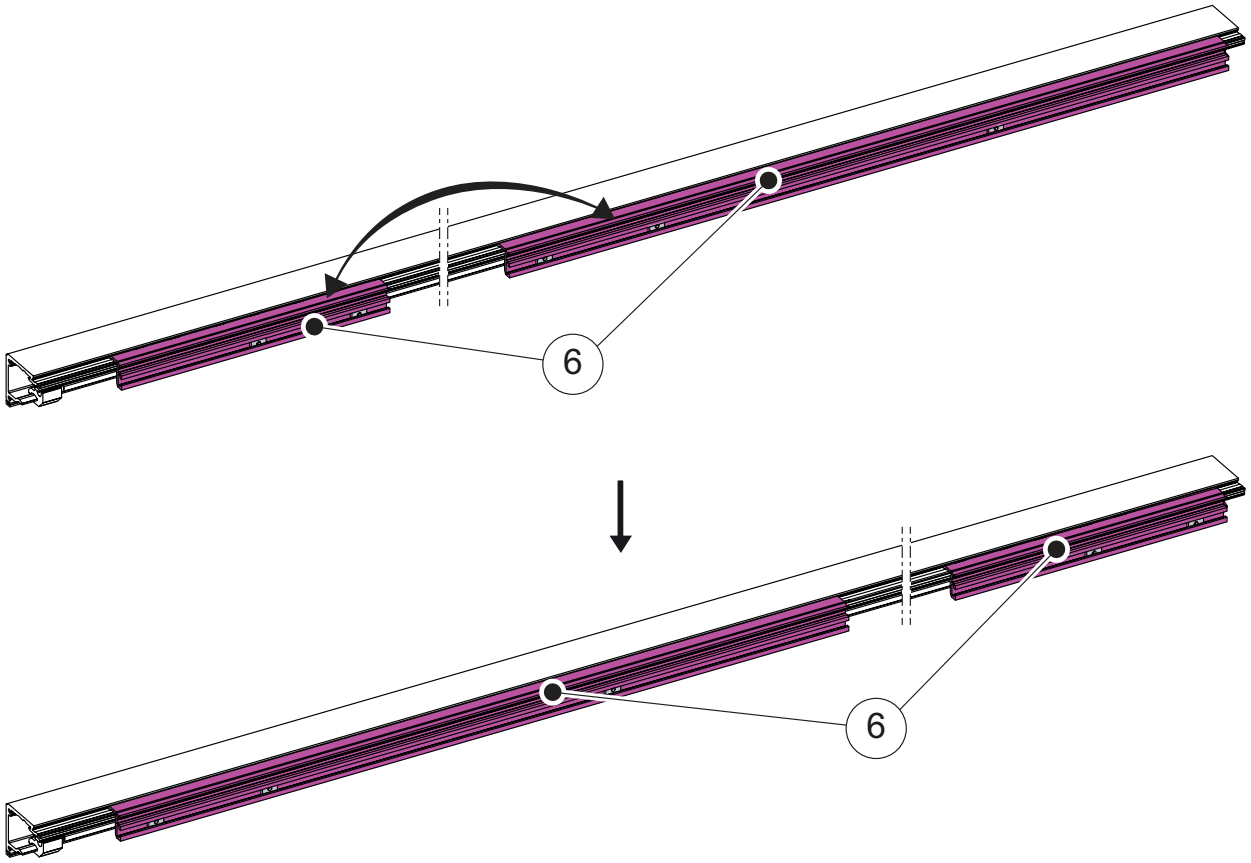
Note! If there are not enough square nuts (4), use the nuts (37) to replace.



1 Door carriage
2 Beam
3 Cover set
4 Square nut
5 Door stop
6 Extension beam
37 Nut

4.3.3 Exchange the extension beams

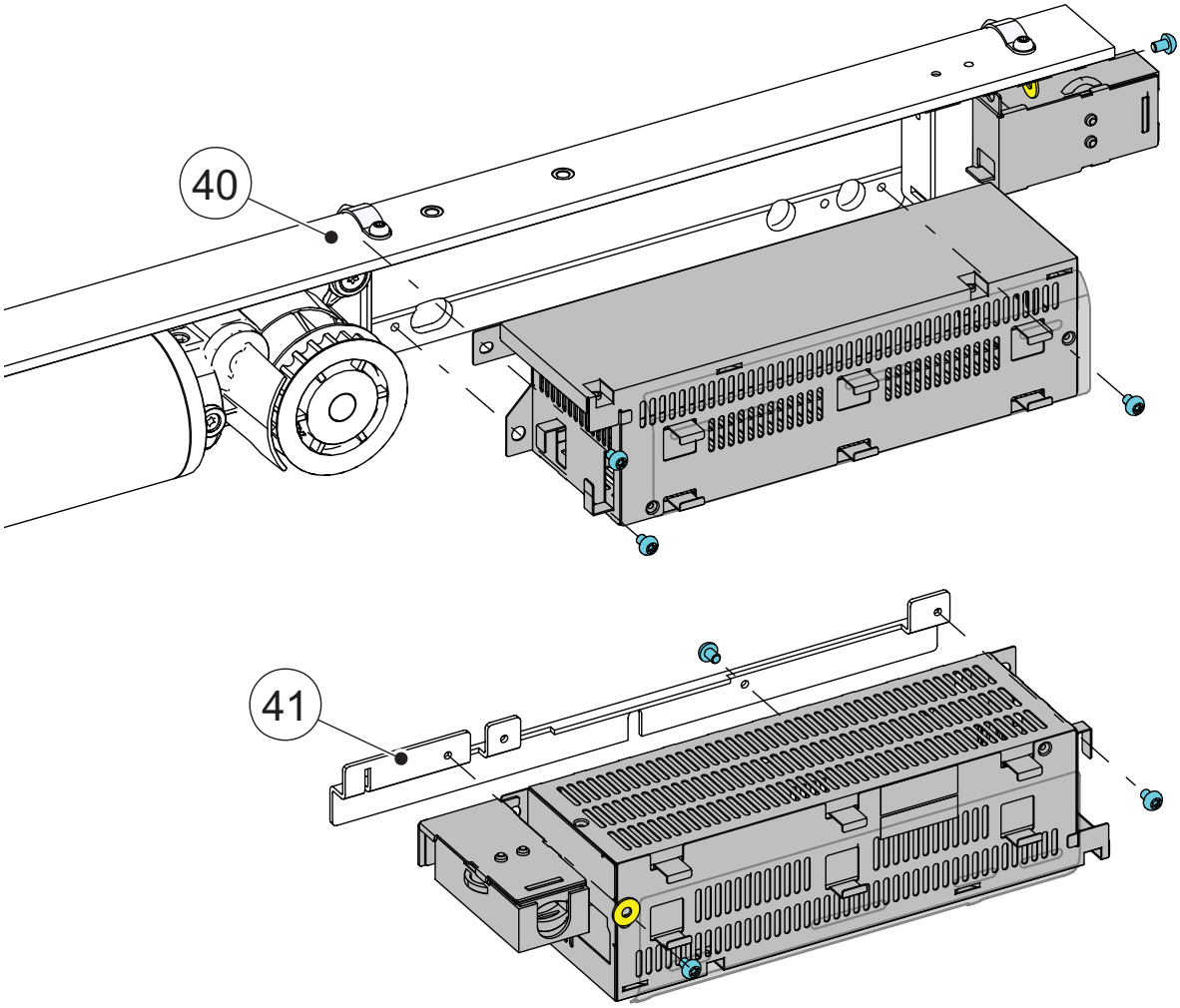
a Exchange the extension beams (6).



6 Extension beam

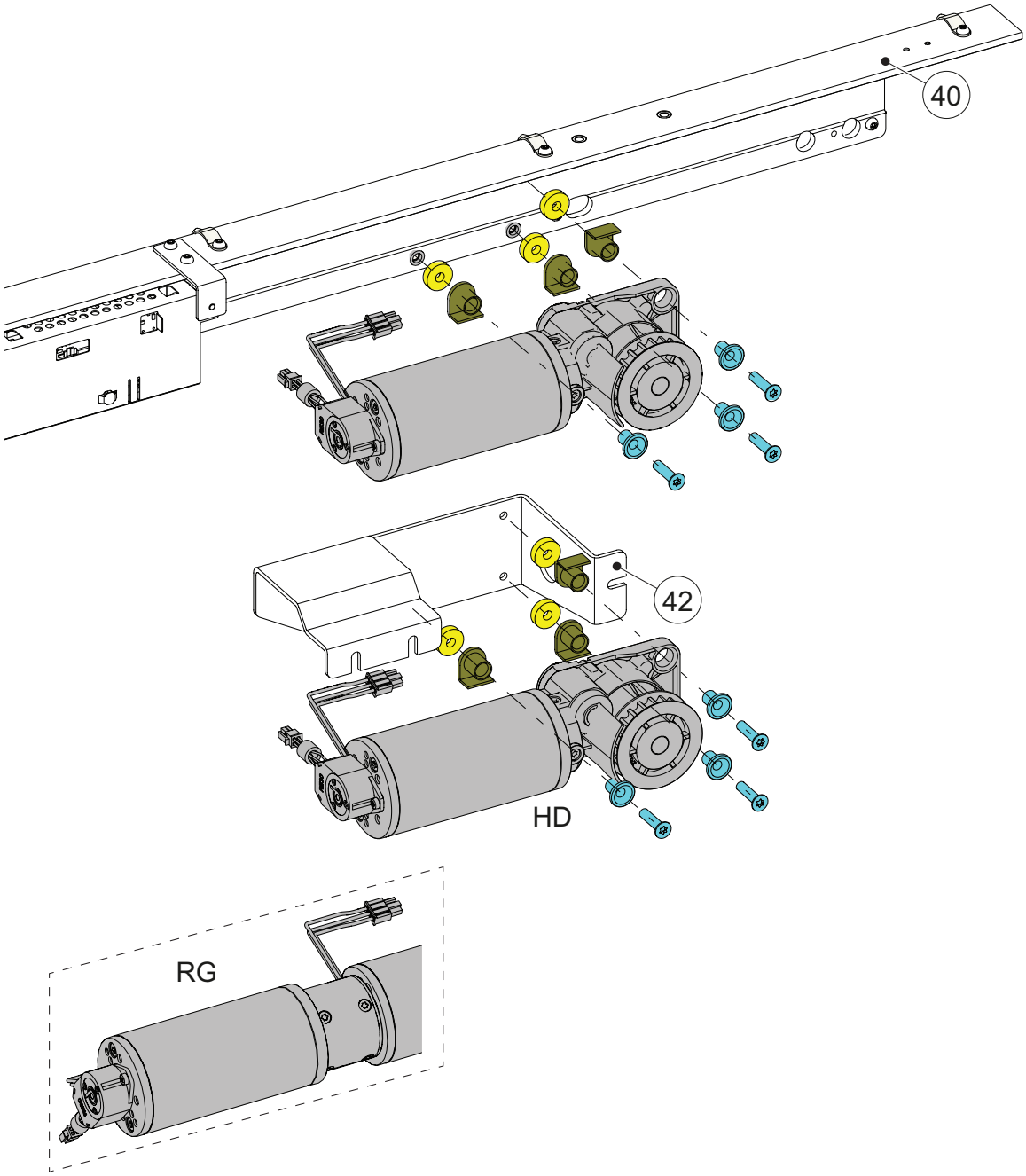
4.3.4 Fix the PSU (power supply unit) and drive unit kit

a Take off the PSU from the Backbone assembly (40), then fix it onto PSU bracket (41) with the original screws and washeres.



40 Backbone assembly
41 PSU bracket

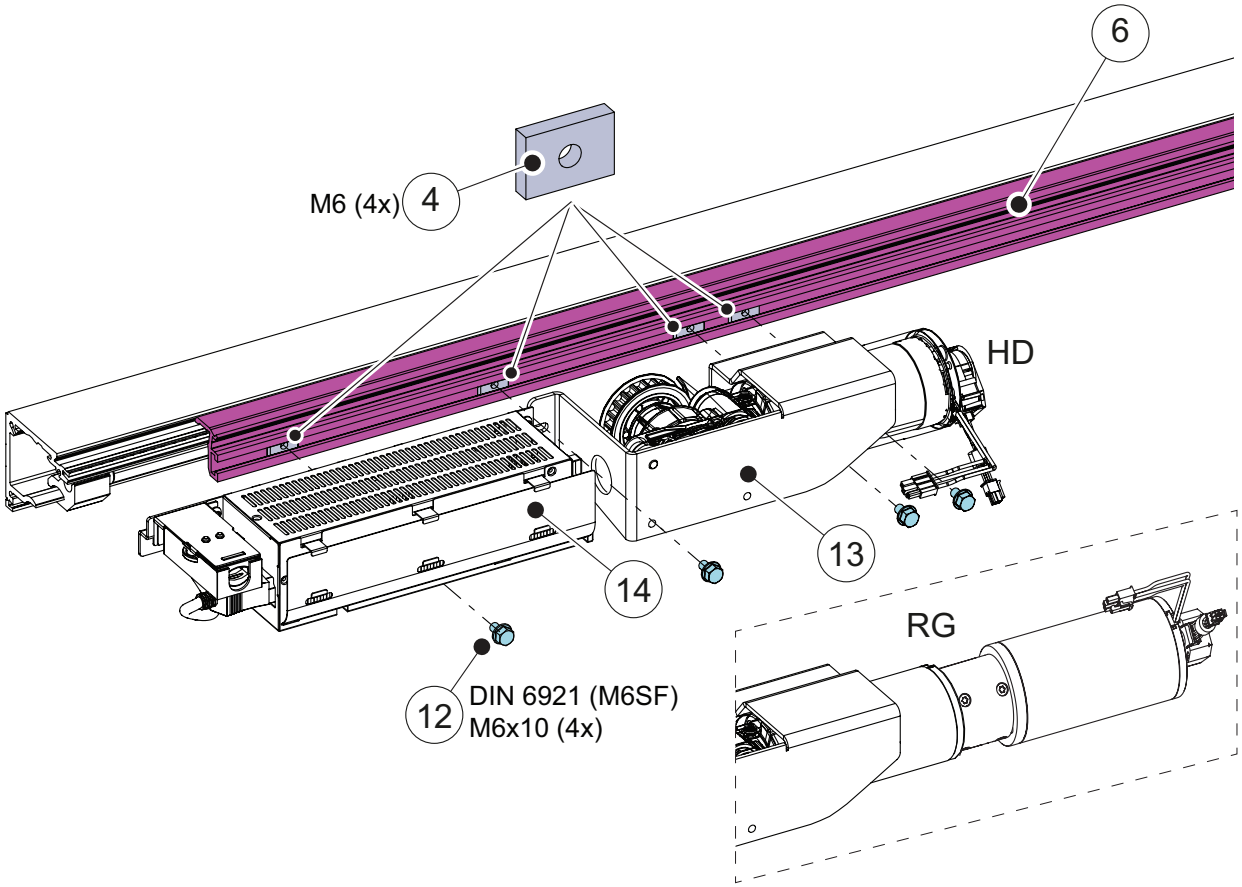
b Take off the drive unit from the Backbone assembly (40), then fix it onto drive motor mounting plate (42) with the original screws, washeres and other components.



40 Backbone assembly

42 Drive motor mounting plate

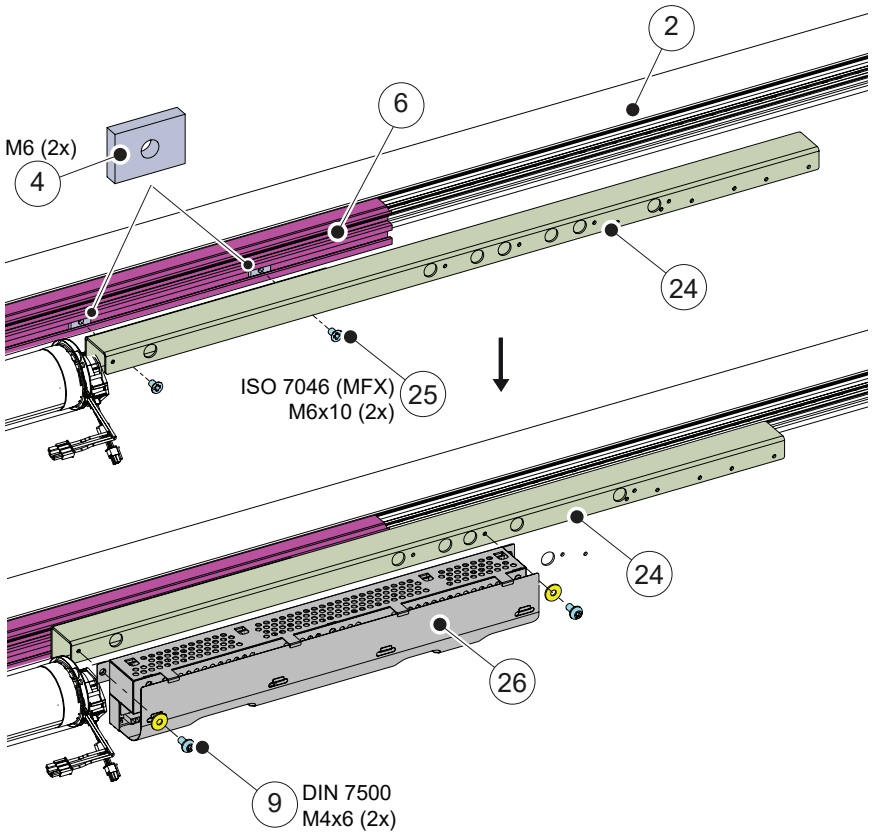
c Fix the PSU (14) and the drive unit kit (13) onto the extension beam (6) with square nuts (4) and screws (12). Then tighten the screws (12) with a **torque of 10 Nm**.



4 Square nut
6 Extension beam
12 Screw
13 Drive unit kit (HD or RG)
14 PSU

4.3.5 Fix the mounting plate and MCU (control unit)

a Fix the mounting plate (24) to the extension beam (6) with square nuts (4) and screws (25), then fix the MCU (26) onto the mounting plate (24) with the original screws (9) and washeres.



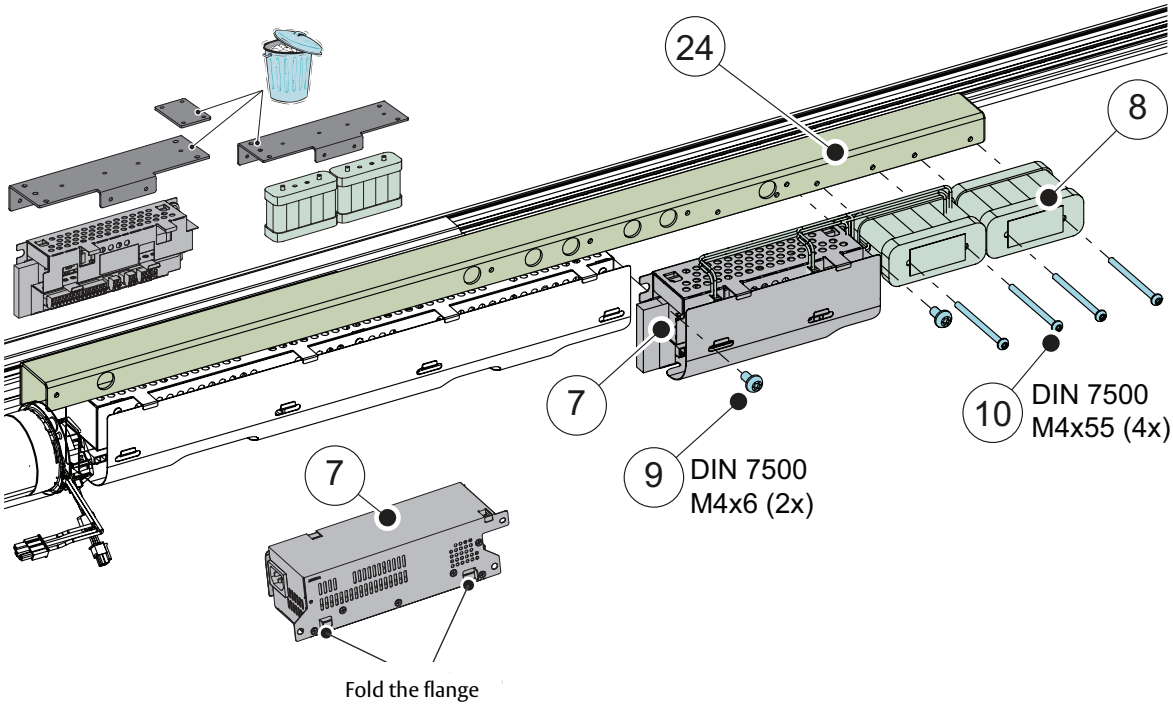
2 Beam
4 Square nut
6 Extension beam
9 Screw
24 Mounting plate
25 Screw
42 Drive motor mounting plate

4.3.6 IOU (KS902MP) and the battery (KS902BAT2) installation

Note! The IOU must be selected when using bi-stable lock.

a Remove the brackets for the IOU and battery.

b Fix the IOU (7) and the battery (8) to the mounting plate (24) with screws (9) and (10).



7 IOU (KS902MP)

8 Battery (KS902BAT2)

9 Screw

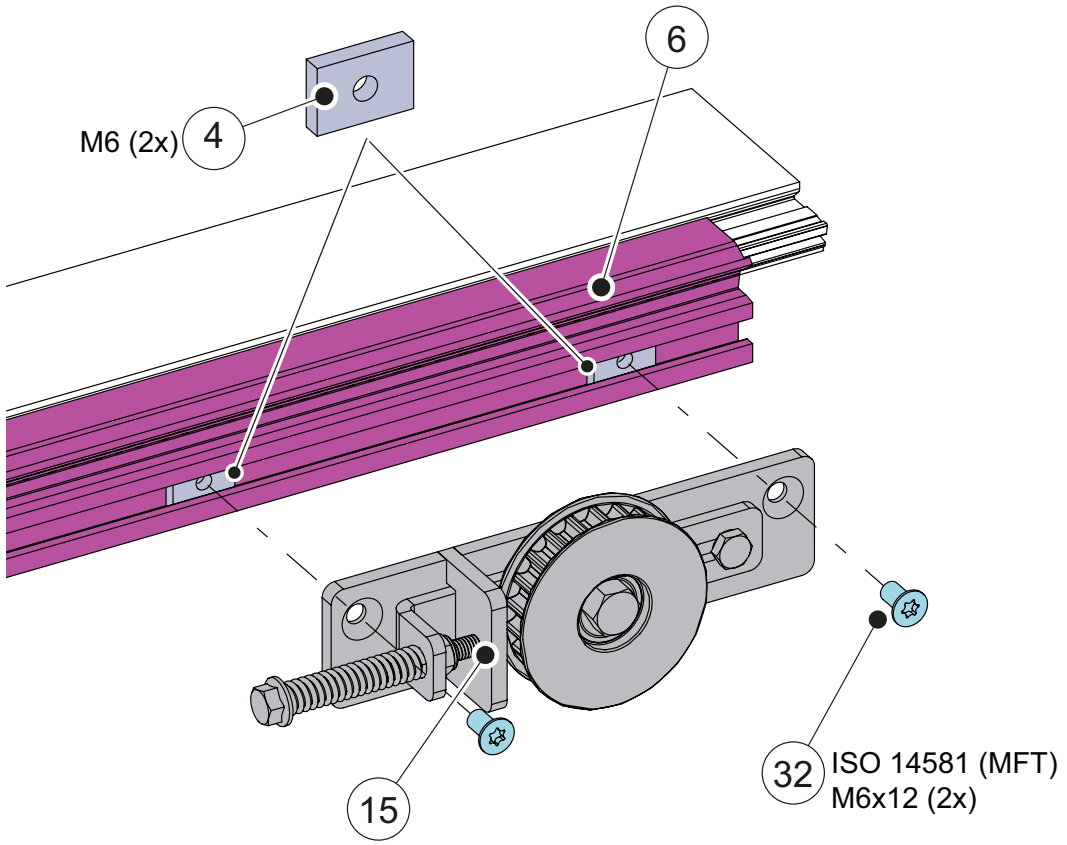
10 Screw

24 Mounting plate

4.3.7 Fix the tension wheel assembly

a Fix the tension wheel assembly (15) to the extension beam (6) with the square nuts (4) and the screws (32). Do not tighten the screws (32) fully, it shall be possible to slide the tension wheel (15) along the extension beam (6).

b The position of the tension wheel assembly (15) should be as close as possible to the drive unit, but make sure that the tension wheel assembly (15) will not interfere with the transmission bracket when the door is fully opened.

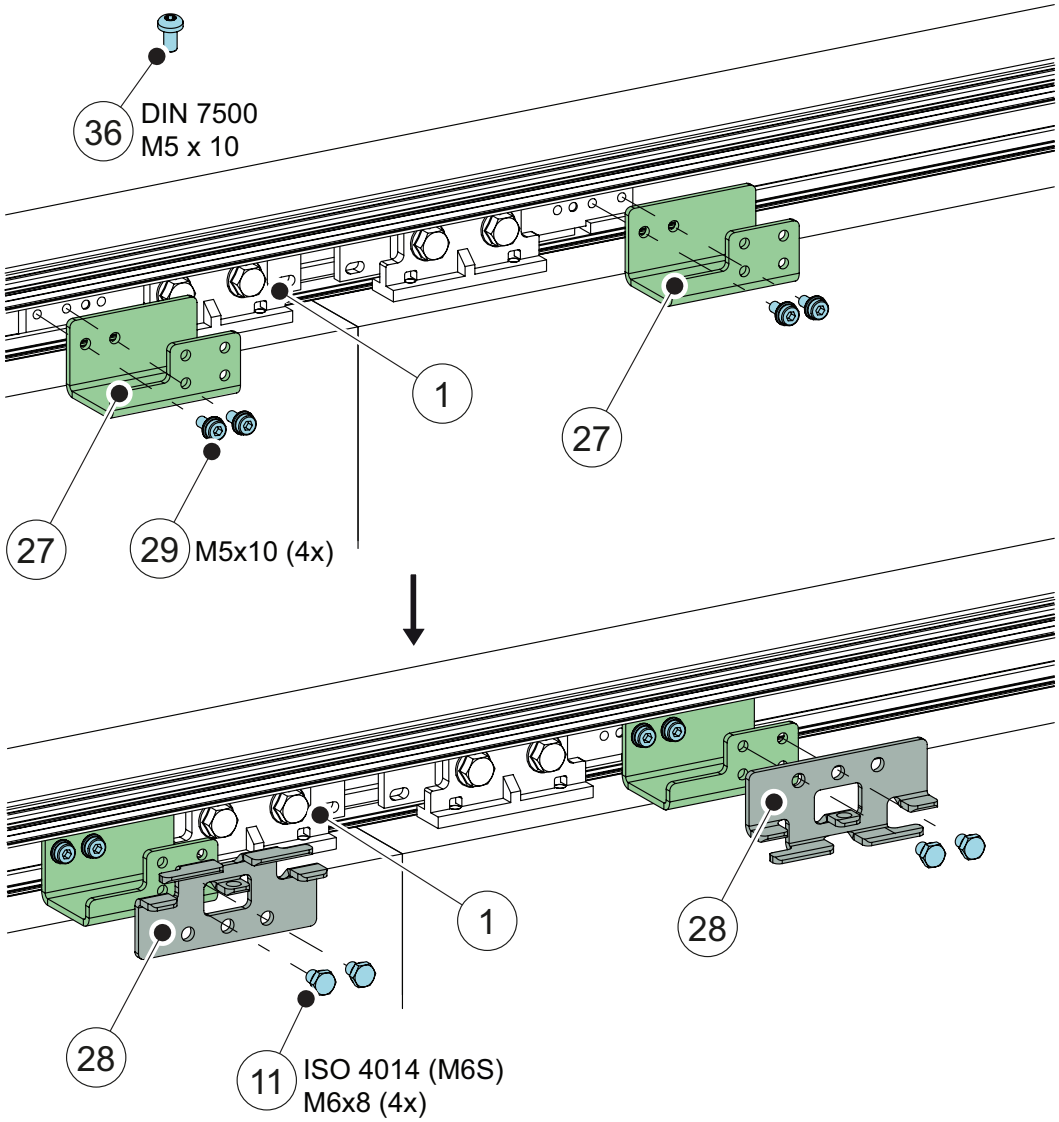


4 Square nut
6 Extension beam
15 Tension wheel assembly
32 Screw

4.3.8 Fix the transmission brackets

a Unscrew the existing screws (29), fix the transmission brackets (27) and the universal transmission brackets (28) to the door carriages (1) with the existing screws (29) and the screws (11).

Note! If there are not enough existing screws (29), use the screws (38) to replace.



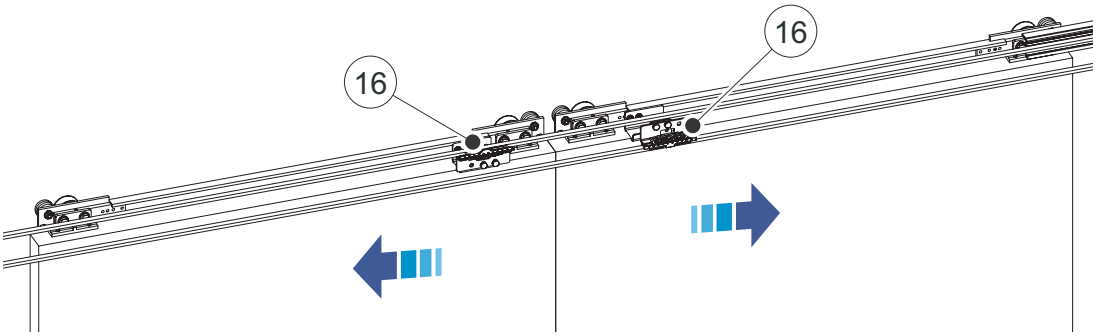
1 Door carriage
11 Screw
27 Transmission bracket
28 Universal transmission bracket
29 Existing screw
36 Screw

4.3.9 Placement of the transmission brackets

Bi-parting opening

The transmission bracket (16) on the left door leaf shall be connected to the upper belt.

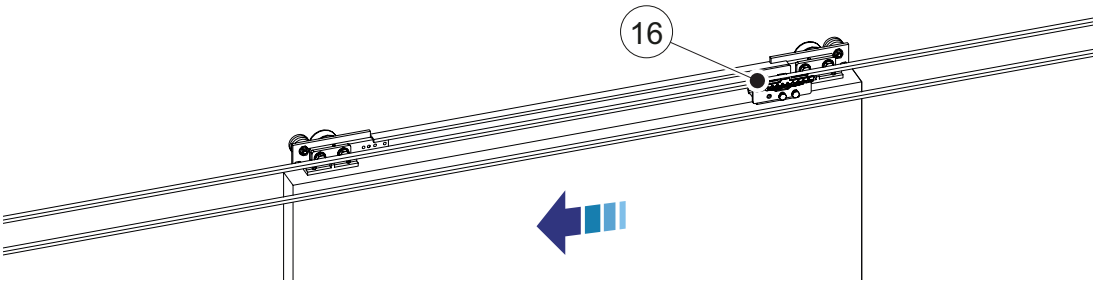
The transmission bracket (16) on the right door leaf shall be connected to the lower belt.



16 Transmission bracket

Single left opening

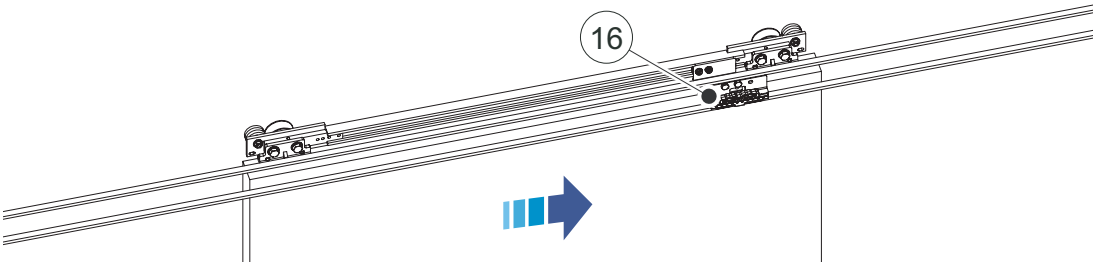
The transmission bracket (16) shall be connected to the upper belt.



16 Transmission bracket

Single right opening

The transmission bracket (16) shall be connected to the lower belt.



16 Transmission bracket

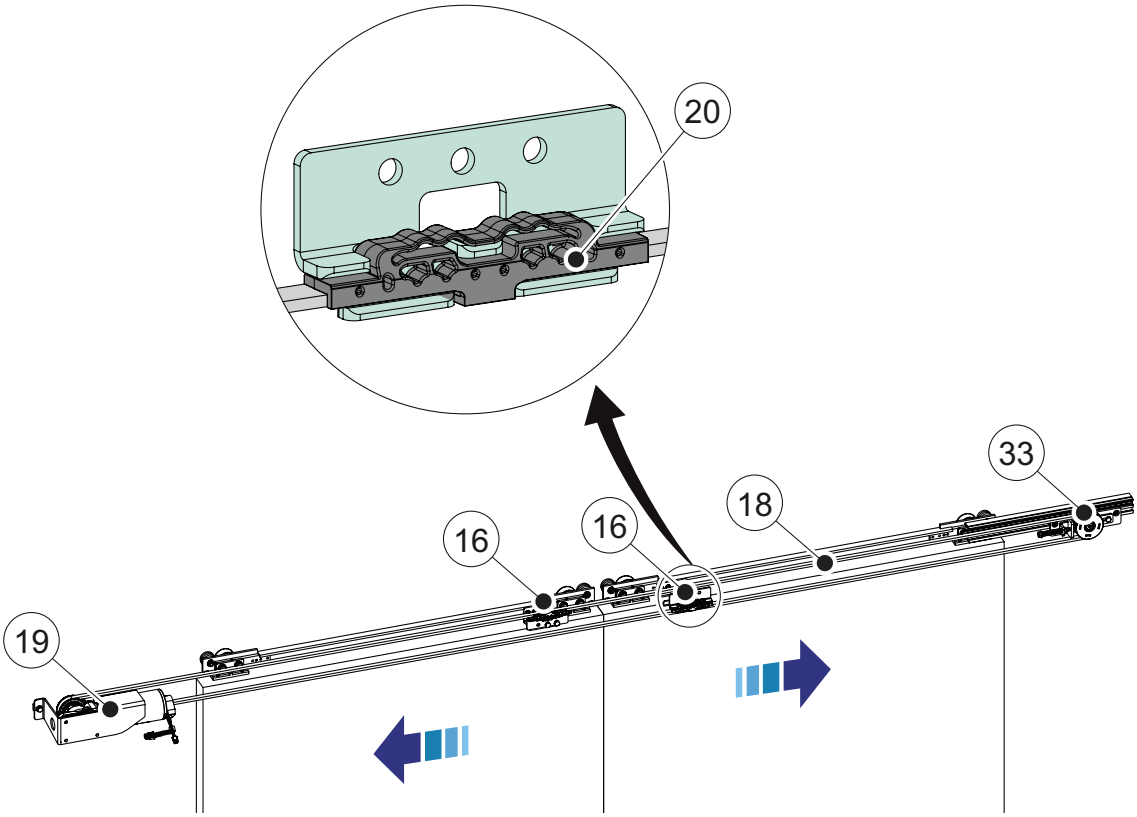
4.3.10 Attachment of the tooth belt

a Cut the tooth belt (18) to the right length if needed. Route the tooth belt (18) around the drive unit pulley (19) and the tension wheel (33).

b For bi-parting doors the belt ends are joined with the belt clamp (20) in the lower part of the tooth belt (18).

c Click the belt clamp (20) into position.

Note! Do not adjust parameter P12!



16 Transmission bracket
18 Tooth belt
19 Drive unit pulley
20 Belt clamp
33 Tension wheel

4.3.11 Checking and adjusting the belt tension

a Loosen the fixing screw (34) without removing it.

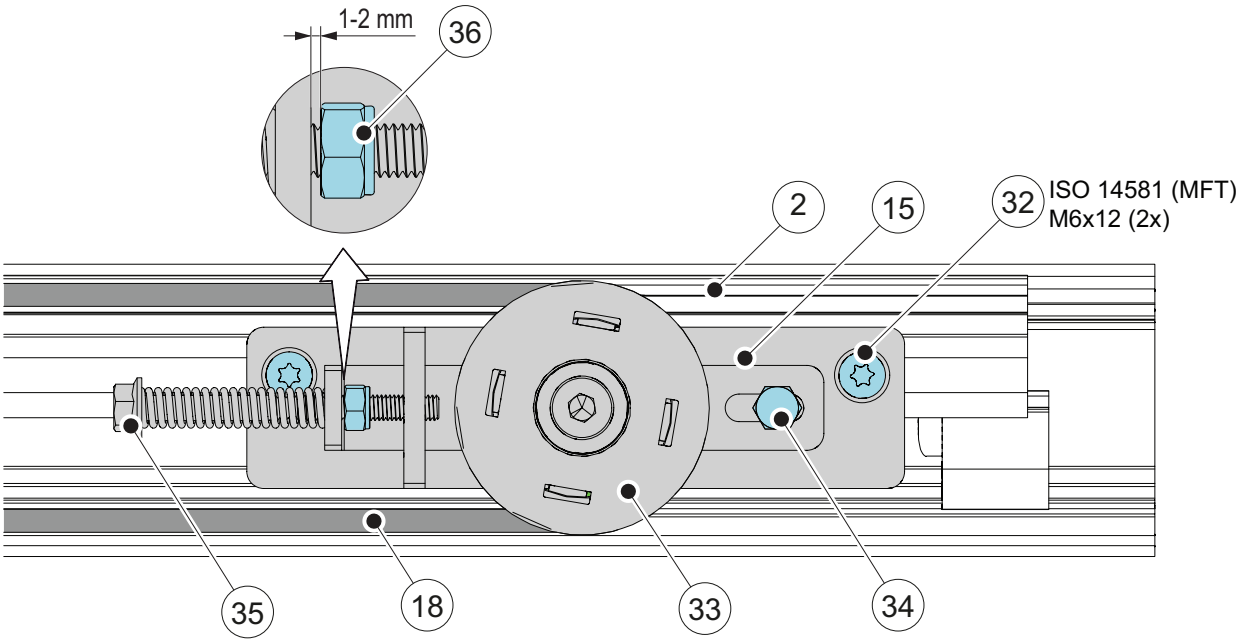
b Screw the adjustment screw (35) to its outmost position.

c Tension the tooth belt (18) by pulling the tension wheel assembly (15) by hand. Tighten the screws (32) with a **torque of 10 Nm**.

d Tighten the adjustment screw (35) until there is a gap of approx. 1-2 mm between the lock nut (36) and the bracket according to illustration below, but not further. Be sure not to overtighten, otherwise the adjustment screw (35) might damage the tension wheel (33).

e Retighten the fixing screw (34) with a **torque of 10 Nm**.

Note! Do not make any adjustment on the lock nut (36).



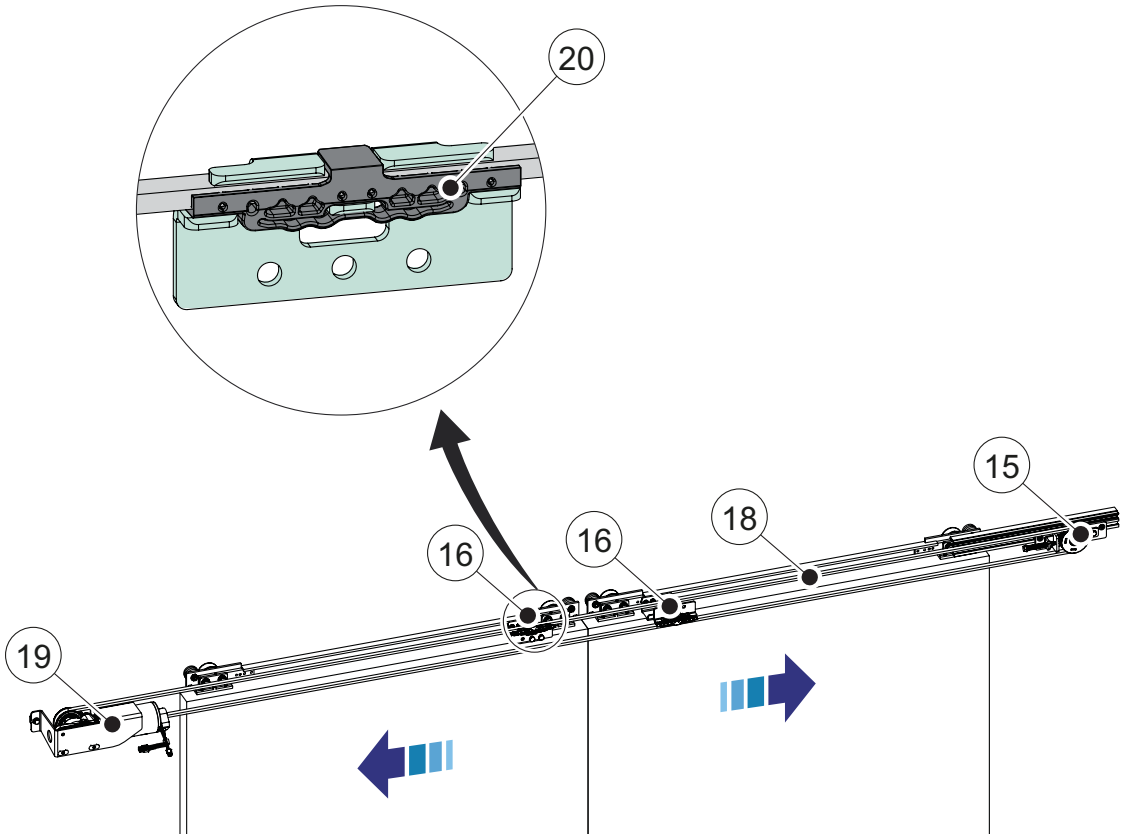
2 Beam
15 Tension wheel assembly
18 Tooth belt
32 Screw
33 Tension wheel
34 Fixing screw
35 Adjustment screw
36 Lock nut

4.3.12 Bi-parting operators

a Put doors in fully closed position. Make sure that the doors trailing edge is align with the side light.

b Click the belt clamp (20) into the transmission bracket (16) on upper.

c Check door panels for proper centering in the fully closed and opened positions.



15 Tension wheel assembly
16 Transmission bracket
18 Tooth belt
19 Drive unit pulley
20 Belt clamp

4.3.13 Attachment of slack reducer

Attach the slack reducer between the eighth and ninth belt tooth on each side of the low transmission bracket. If two slack reducers are needed put the second slack reducer in the same way under the upper transmissions bracket.

Note! Slack reducer not needed if belt lock equipped.

Single doors

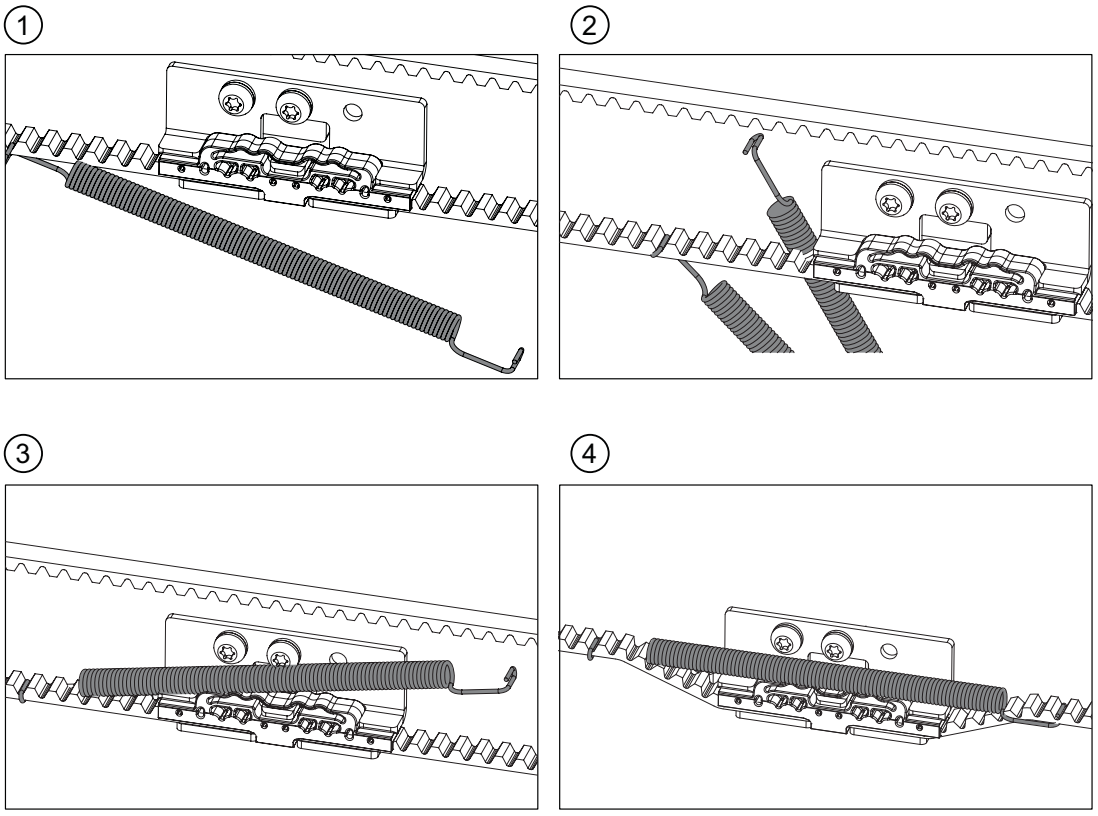
If the belt length is more than 4700 mm, there shall be one slack reducer.

Double doors

If the belt length is more than 5700 mm, there shall be two slack reducers.

In all other cases

In all other cases, then above, there will not be any slack reducers in the operator.



4.3.14 Install the belt lock (KSFB4LOCK) (option)

a Fix the belt lock (21) to the extension beam (6) with square nuts (4) and screws (43). Then tighten the screws (43) with a **torque of 10 Nm**.

Note! * Cut the extension beam to smaller pieces.

Bi-parting

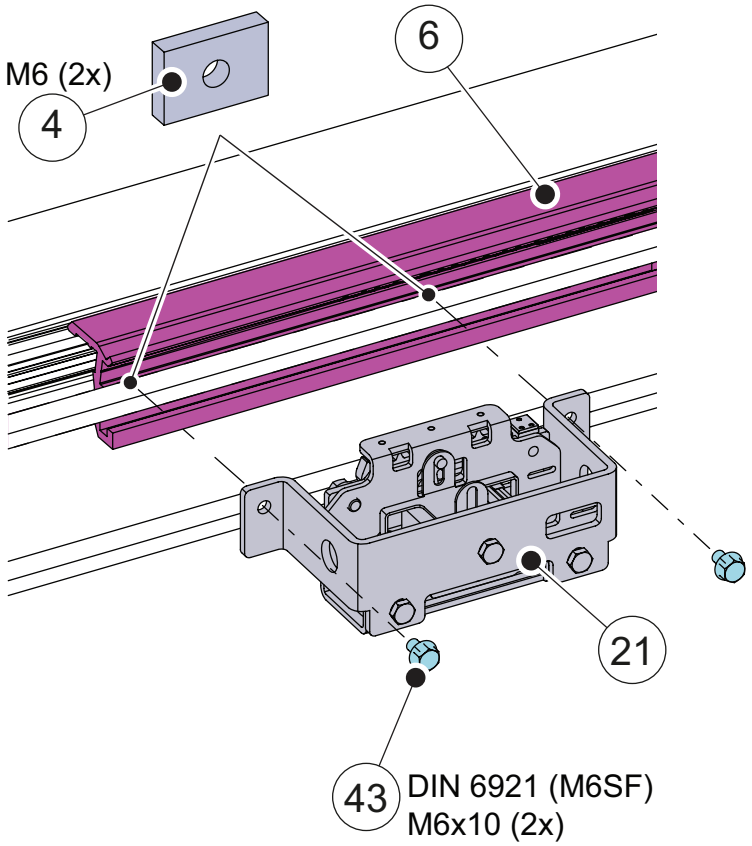
2/3 of the extension beam for backbone assembly.
1/6 of the extension beam for tension wheel.
1/6 of the extension beam for belt lock.

Left opening

2/3 of the extension beam for backbone assembly.
1/3 of the extension beam for tension wheel and belt lock.

Right opening

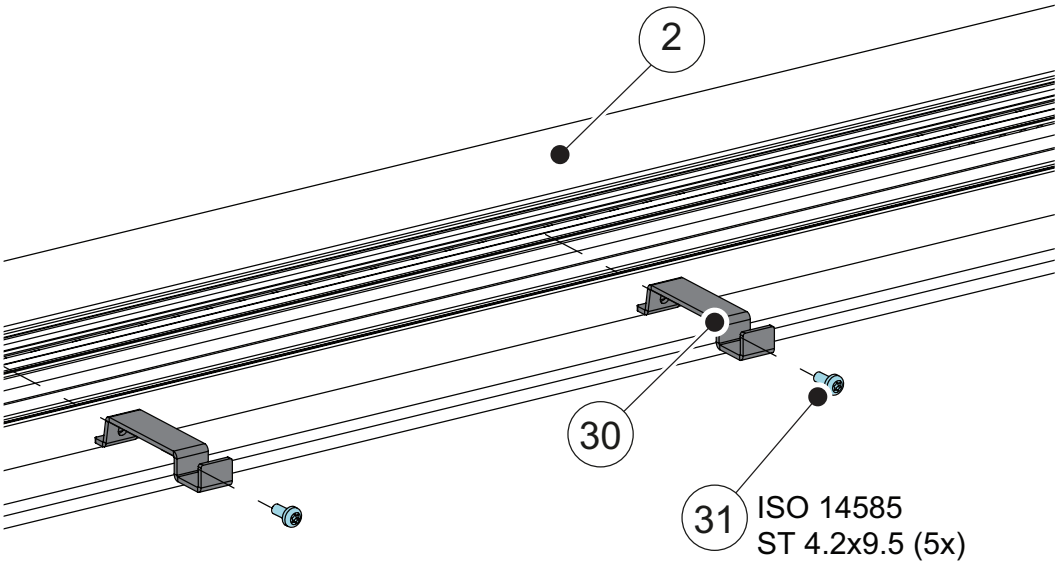
2/3 of the extension beam for backbone assembly and belt lock.
1/3 of the extension beam for tension wheel.



4 Square nut
6 Extension beam
21 Belt lock
43 Screw

4.3.15 Fix the cable bracket

a Fix the cable brackets (30) to the beam (2) with screws (31).



2 Beam
30 Cable bracket
31 Screw

For electrical connection, start up and parameter setting, please refer to DAS200 Installation Manual using the following QR code.

https://www.ditecentrematic.com/Entrematic/ditecentrematicCOM/QR/Multilanguages/DAS200/DitecDAS200.pdf

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