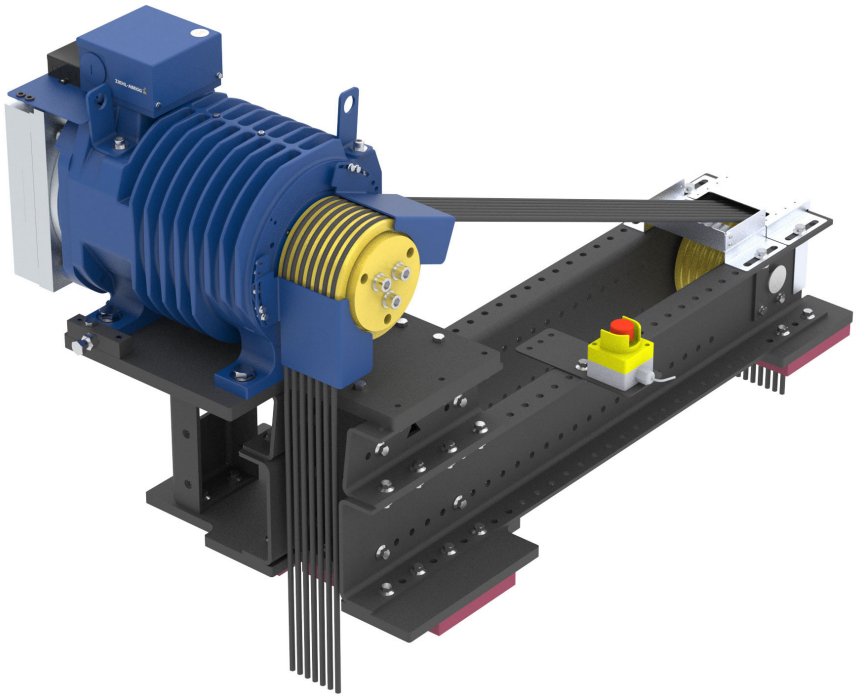
Movement by Perfection



ZAframe

MK4850A

Machine frame for
ZAtop SM205.40A
ZAtop SM205.45A

Issue 2026/28

Assembly instructions
Store for future use!

A-TIA25_08-GB 2026/28 Index 01 | 01013653-GB

ZIEHL-ABEGG

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1 Introduction

1.1 Liability

Compliance with the following specifications serves to ensure product safety. Should the information specified especially with regard to general safety, transport, storage, assembly, operating conditions, start-up, service, maintenance, cleaning and disposal/recycling not be observed, safe operation of the product may not be guaranteed posing a possible danger to life and limb of users and third parties. Thus, deviations from the specifications below can lead to the loss of legal materials defect liability as well as to the buyer's liability for the product rendered unsafe by deviation from the specifications.

1.2 Validity and meaning of the instructions

These instructions apply to the machine frame ZAframe MK4850A.

These instructions apply only to the product ZIEHL-ABEGG SE and not to the complete system. If additional devices are used or installed, the respective instructions must be observed.

The instructions provide guidelines for safe work.

▷ Store the instructions so that they are accessible to all persons who work with the product.
▷ Pass the instructions on to subsequent users.
▷ Read and follow the instructions in full.

1.3 Target group of the instructions

The target group of these instructions are transport personnel, fitters who have been instructed in mechanical and electrical engineering, electricians, electrically instructed personnel, start-up and maintenance personnel, see *Requirements placed on the personnel, page 3*.

1.4 Applicable documents

Observe the following documents for instructions:

- Order confirmation
- Instructions for the elevator machine
  Latest versions of the A-TBA at: https://www.ziehl-abegg.com/bal

2 Safety instructions

2.1 Intended use

The product is not ready for use, but rather designed as a component of the elevator machine.

The instructions are part of the product. The product is only intended for use according to these instructions.

2.2 Requirements placed on the personnel

The client of the required measures in the product life cycle is responsible for ensuring that the personnel carrying out the work are sufficiently qualified.

Personnel	Minimum requirements, knowledge and experience
Planners and project designers	They are responsible for the project planning of the complete system. They have knowledge of applicable standards, legal requirements and safety regulations.

Personnel	Minimum requirements, knowledge and experience
Transport personnel	They can deal safely with industrial trucks, loads and transport regulations. They can identify and avoid hazards that can occur when transporting the product. They have also been instructed and trained in the necessary protective equipment and protective measures to use.
Assembly personnel	They can deal safely with tools, loads and assembly instructions. They can identify and avoid hazards during assembly of the product. They have also been instructed and trained in the necessary protective equipment and protective measures to use.
Electrician	They have technical training in the field of electrical engineering. They can identify and avoid hazards associated with electricity. They have also been instructed and trained in the necessary protective equipment and protective measures to use. They comply with the technical regulations and have the following electrotechnical knowledge: ▫ Read and fully understand electronic connection diagrams. ▫ Understand all relationships regarding the safety devices. ▫ Are familiar with the function and design of the electrical components used.
Electrically trained personnel	Personnel instructed or supervised by a qualified electrician. They can identify and avoid hazards associated with electricity. They have been instructed in the assigned tasks and possible hazards in the event of improper conduct. They have also been instructed and trained in the necessary protective equipment and protective measures to use.
Start-up technician	They handle the entire system safely. They can identify and avoid hazards that may occur during start-up. They have also been instructed and trained in the necessary protective equipment and protective measures to use.
Maintenance personnel	They handle the entire system safely. They can identify and avoid hazards that may occur during service and maintenance. They have also been instructed and trained in the necessary protective equipment and protective measures to use. They can identify and avoid hazards associated with electricity.

2.3 Protective device

Reaching into the nip guard, rope retainer or rope guard during operation can cause serious injury.

▷ DO NOT reach into the machine while the elevator machine is in operation.
▷ Wait for the product to come to a standstill.

2.4 Do not touch the ropes

Touching the ropes during operation can cause serious injury.

▷ Operate the product with the traction sheave cover, rope guard or rope retainer.
▷ DO NOT touch the ropes while the elevator machine is in operation.
▷ Wait for the product to come to a standstill.

2.5 Modifications and spare parts

Unauthorised modifications and unauthorised spare parts can lead to serious injuries.

▷ Do NOT modify the product.
▷ Before making changes, obtain written approval from ZIEHL-ABEGG SE.
▷ Use spare parts from ZIEHL-ABEGG SE.

2.6 Do not disassemble components

Dismantling components can cause serious injury.

▷ DO NOT remove or decommission any components, e.g. traction sheave cover, brake release monitoring.

3 Transport

⚠ WARNING **Crushing hazard due to suspended loads and uncontrolled moving parts.**

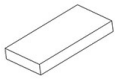
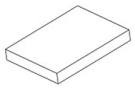
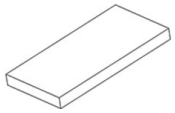
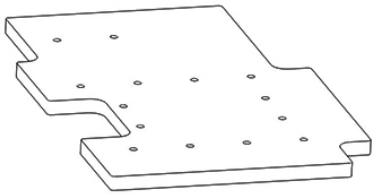
▷ Wear safety helmet, safety gloves and safety shoes.
▷ Observe the loads during transport.
▷ Do NOT walk or reach under suspended loads.
▷ Set down the load when you leave the work area.

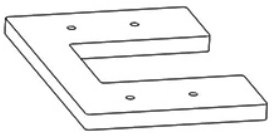
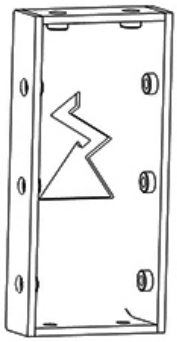
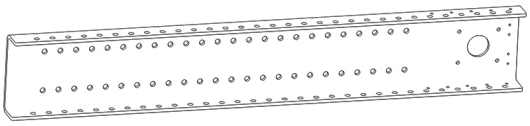
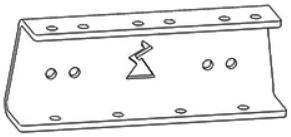
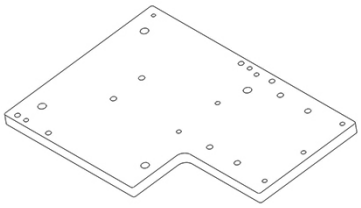
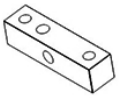
Procedure:

1. Transport the product in its original packaging on the pallet.
2. Unpack the product.
3. Check the product for damage.
4. Select the lifting gear according to the weight of the product.
5. Dispose of the packing material in accordance with local regulations.

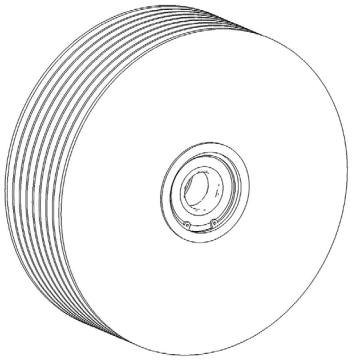
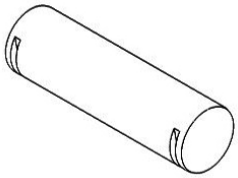
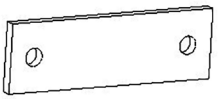
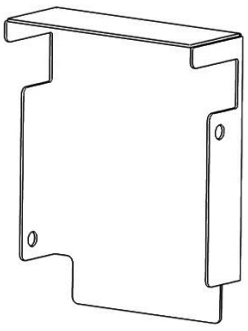
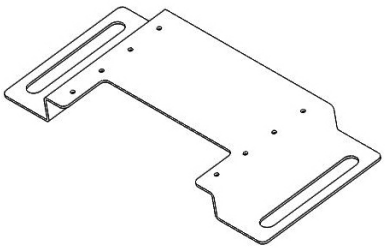
4 Scope of delivery

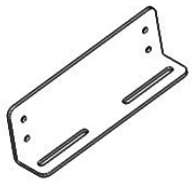
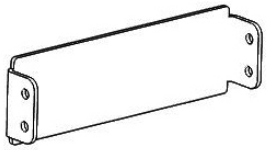
4.1 Scope of delivery – Base frame

Designation	Component	Number
Vibration insulation, with double-sided tape Burgundy, 200 x 100 x 25 mm		2
Vibration insulation, with double-sided tape Grey, 100 x 100 x 25 mm		1
Vibration insulation, with double-sided tape Grey, 200 x 150 x 25 mm		2
Vibration insulation, with double-sided tape Burgundy, 300 x 150 x 25 mm		1
Floor plate, drive side		1

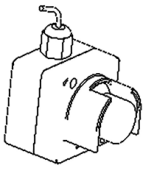
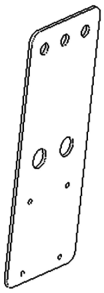
Designation	Component	Number
Floor plate, deflection pulley side		1
Support		3
Longitudinal beam		2
Motor lift		2
Motor fastening		1
Motor stop		2
Earthing information sign		2
Contact disc 10		2
Washer 10		4
Hexagon head screw M10 x 16 - 8.8		2
Hexagon head safety screw M12 x 25 - 100		38
Locking nut M12		12
Hexagon head safety screw M12 x 35 - 100		8
Hexagon head screw M12 x 50 - 8.8		8
Clamping pin 12 x 50 x 2		4
Hexagon head screw M20 x 45 - 8.8		4
Washer 20 - 200 HV		4
Hexagon head screw M16 x 65 - 8.8		2
Hexagon nut M16 - 8		2

4.2 Scope of delivery – Deflection pulley with rope guard

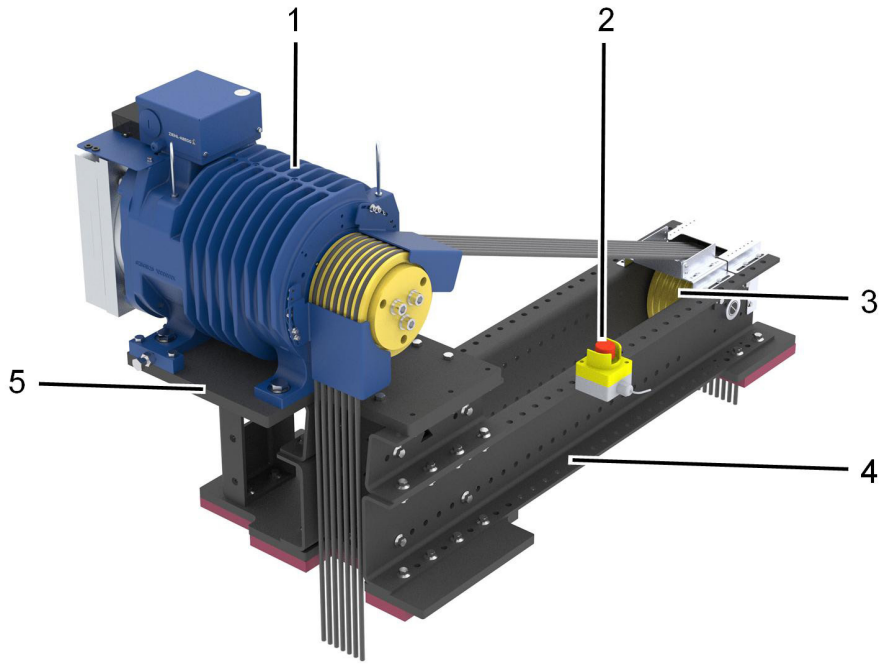
Designation	Figure	Num-ber
Deflection pulley		1
Axle with warning sticker		1
Sleeve, 20 mm wide		2
Axle keep plate		2
Rope guard		1
Nip guard		2

Designation	Figure	Num-ber
Nip guard holder		2
Nip guard bracket		1
Hexagon head safety screw M10 x 16- 100		6
Washer 10 - 200 HV		6
Self-tapping screw M4 x 6- T20		8
Warning sticker		1
Information Sign - No hammer		2

4.3 Scope of delivery – Emergency stop switch, optional

Designation	Component	Number
Emergency-stop switch		1
Plate		1
Hexagon head safety screw M12 x 25 - 100		2
Hexagon locking nut M12		2
Cylinder screw M4 x 16 - 8.8		2
Washer 4 - 200 HV		2
Hexagon nut M4 - 8		2

5 ZAframe MK4850A product overview

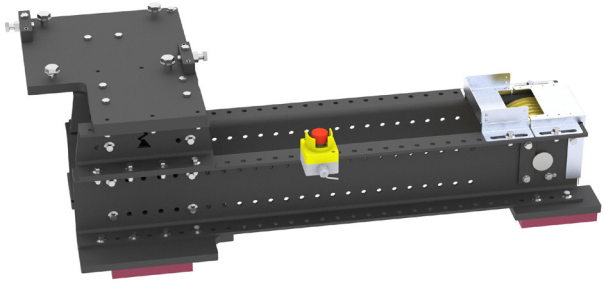


1	Elevator machine
2	Emergency stop switch, optional
3	Deflection pulley

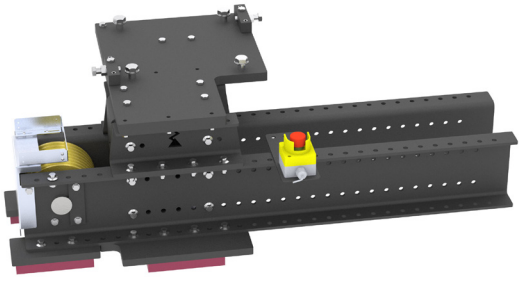
4	Base frame
5	Motor base plate

6 Assembling the machine frame

The machine frame can be mounted on the right or left. The right or left version describes the position of the deflection pulley when viewed from the traction sheave.



Right-hand version



Left-hand version

In the description of the machine frame assembly, the **right-mounted design is shown in all images**.

A second fitter is required when assembling the machine frame.

6.1 Mounting the base frame

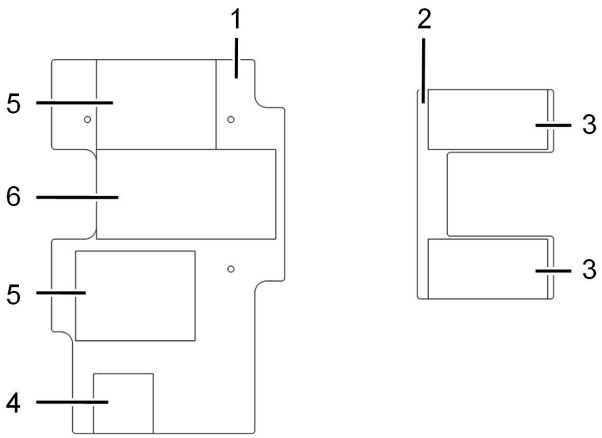
In addition, use the following special tools:

- Torque wrench for tightening torque of 46 Nm, size 15
- Torque wrench for tightening torque of 120 Nm, size 17
- Torque wrench for tightening torque of 79 Nm, size 18

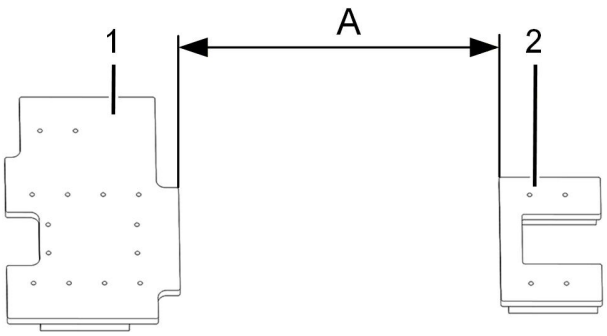
Procedure:

ATTENTION! The floor plate (1) weighs approximately 33 kg.

1. Glue the pieces of vibration isolation (4 - 6) to the floor plate (1), see *Dimension sheet, page 23*.
   (4) = 100 mm x 100 mm, grey
   (5) = 200 mm x 150 mm, grey
   (6) = 300 mm x 150 mm, burgundy
2. Glue the pieces of vibration isolation (3) to the floor plate (2), see *Dimension sheet, page 23*.
   (3) = 200 mm x 100 mm, burgundy

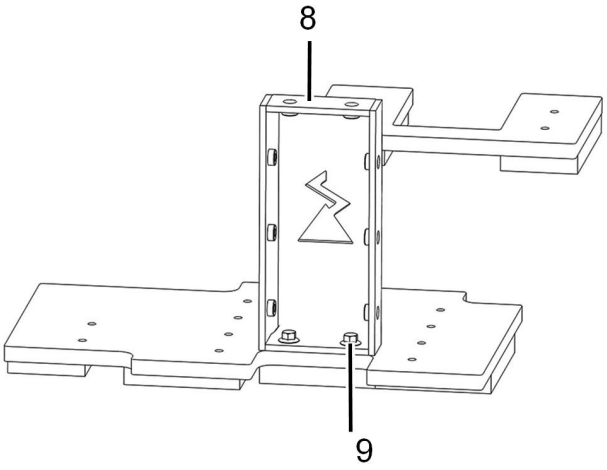


3. Position the two foot plates at distance A from each other.
   A = Distance between floor plate (1) and floor plate (2)
   ASL = Distance from traction sheave rope outlet to deflection pulley rope outlet
   D1 = Ø of traction sheave
   D2 = Ø of deflection pulley

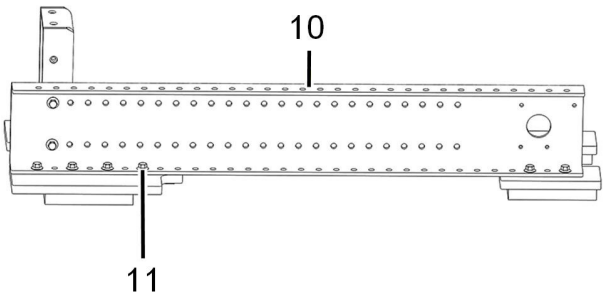


$$A = ASL - \frac{D1}{2} - \frac{D2}{2} - 360$$

4. Position the support (8) on the floor plate.
5. Screw the support onto the floor plate hand-tight using 2 hexagon head safety screws M12 x 25 (9).

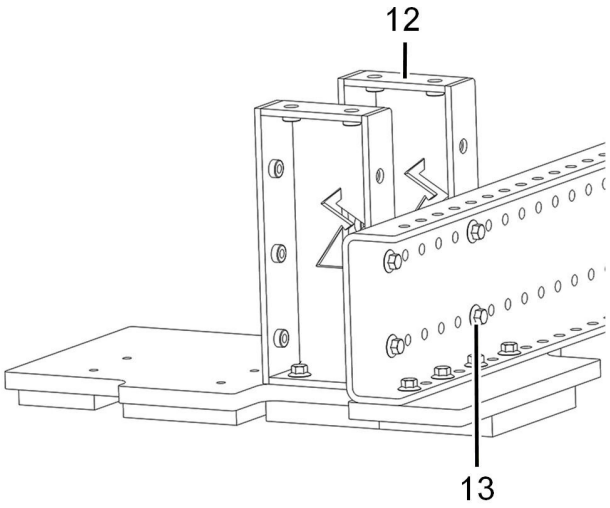


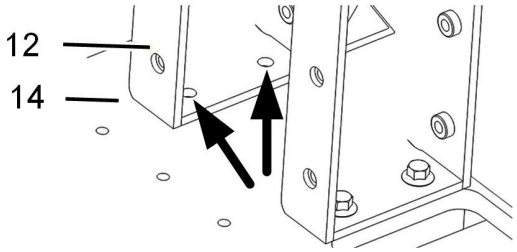
6. Place the one of the longitudinal beams (10) on the foot plates.
7. Check distance A. Maintain **distance A**.
8. Screw the longitudinal beam (10) to the floor plates hand-tight using 6 hexagon head safety screws M12 x 25 (11).
9. Screw the longitudinal beam (10) to the support hand-tight using 2 hexagon head safety screws M12 x 25 (11).



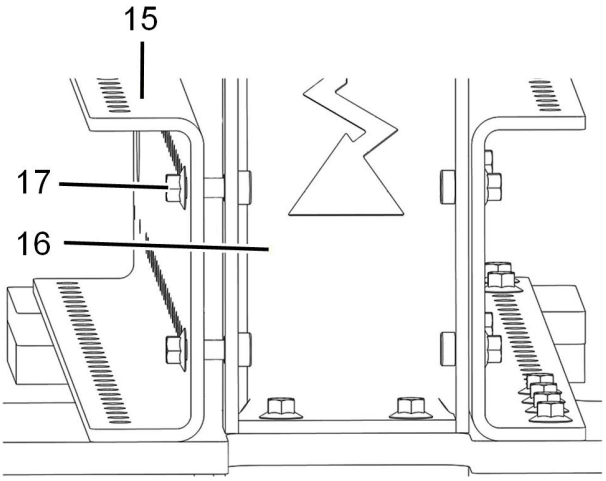
10. Position the support (12) on the floor plate.

    The support (12) is not bolted to the floor plate (14)!
11. Screw the support to the longitudinal beam hand-tight using 2 hexagon head safety screws M12 x 25 (13).

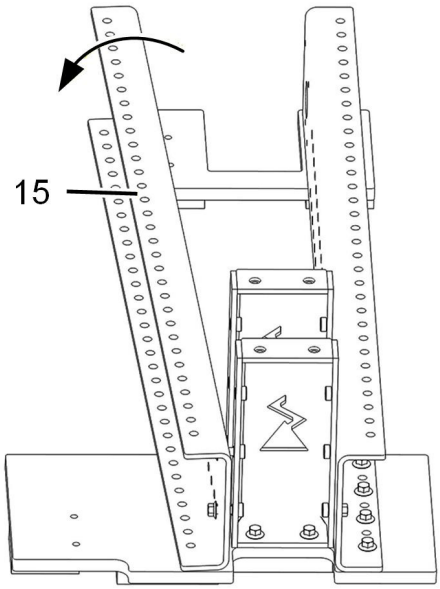




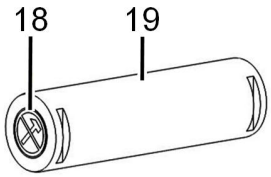
12. Place the second longitudinal beam (15) on the floor plates.
13. Position 2 hexagon head safety screws M12 x 25 (17) on the longitudinal beam (15) and on the support (16).



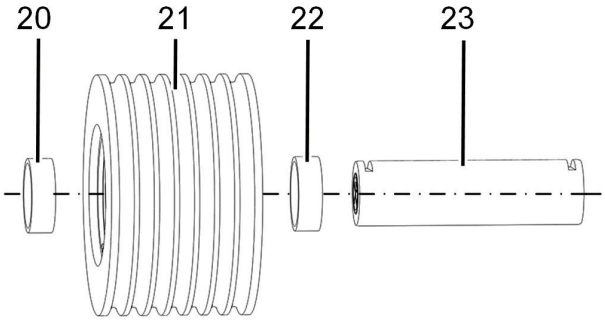
14. Carefully swivel the longitudinal beam (15) outwards.



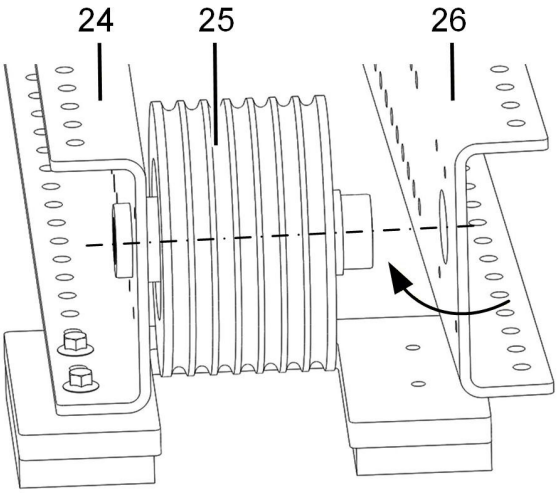
15. Affix one information sign (18) on each of the end faces of the axle (19).



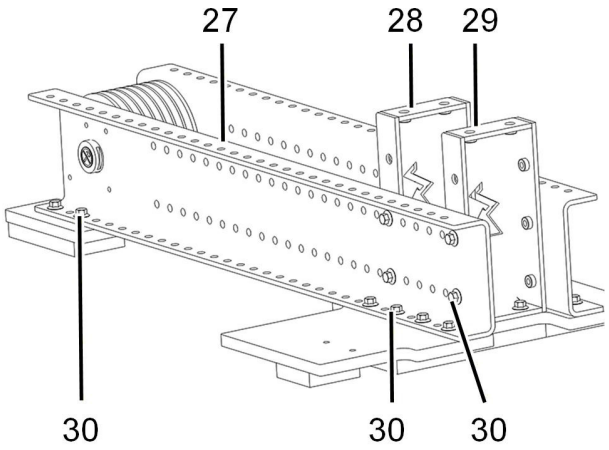
16. Pre-assemble the deflection pulley (21):
    Slide the axle (23) through the deflection pulley.
    Position the sleeves (20 + 22) on the right and left next to the deflection pulley on the axle.



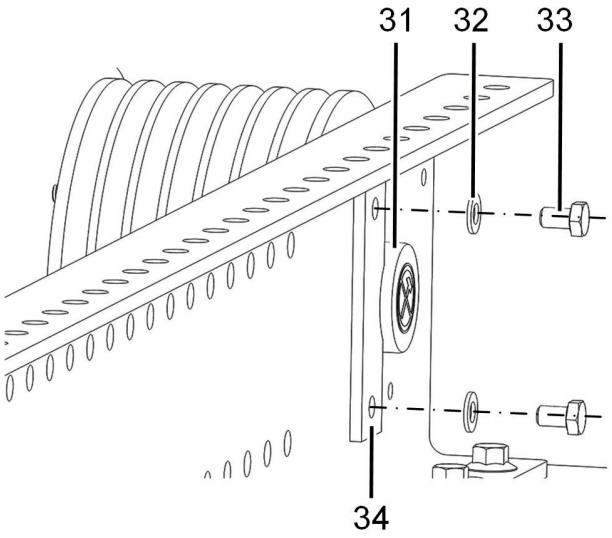
17. Slide the axle end of the pre-assembled deflection pulley (25) into the longitudinal beam (24).
18. Carefully swivel the longitudinal beam (26) inwards and move it into position.
    Slide the second axle end of the pre-assembled deflection pulley (25) into the longitudinal beam (26).



19. Screw the longitudinal beam (27) to the 2 floor plates hand-tight using 6 hexagon head safety screws M12 x 25 (30).
20. Screw the longitudinal beam (27) to the 2 supports (28 + 29) hand-tight using 2 hexagon head safety screws M12 x 25 (30) on each support.



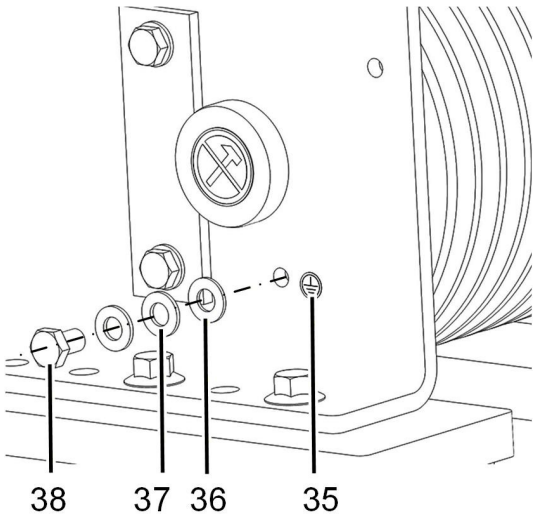
21. Position the axle keep plates (34) on both sides of the axle (31). Screw on hand-tight using 2 hexagon head screws M10 x 16 - 8.8 (33) and 2 washers 10 - 200 HV (32) on each plate.



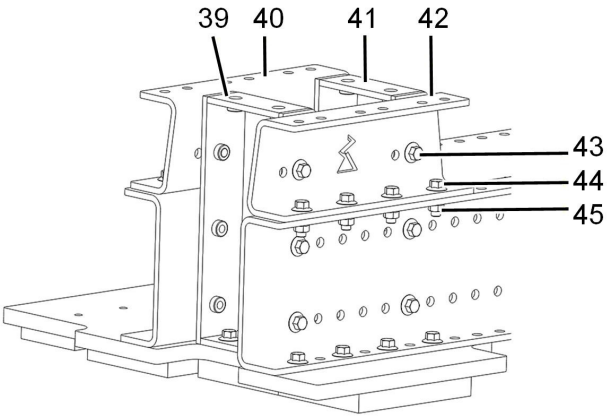
22. Install the grounding screw on one side of the axle.

    Screw in the contact disc (36) and the two washers (37) hand-tight using the hexagon head screw M10 x 16 - 8.8 (38).

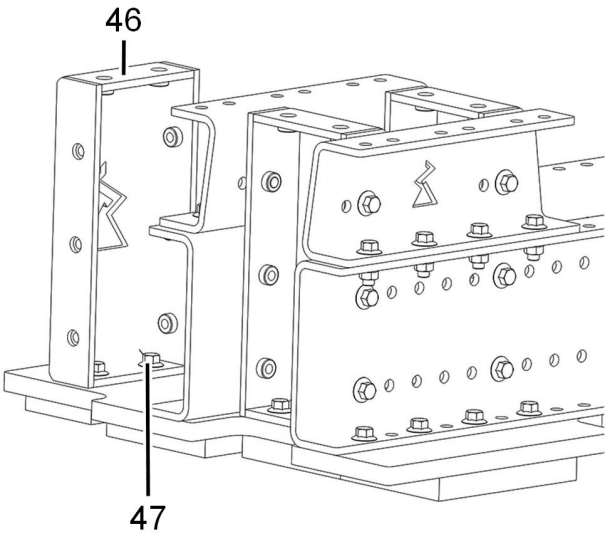
    Align the contact disc (36) so that the 6 teeth face the painted surface.
23. Glue on the grounding information sign (35).



24. Position the 2 lifts (40 + 42) on the longitudinal beams.
25. Screw the 2 lifts (40 + 42) to the longitudinal beams hand-tight using 4 hexagon head safety screws M12 x 35 (44) and 4 hexagon locking nuts M12 (44) on each beam.
26. Screw the 2 lifts (40 + 42) to the supports (39 + 41) hand-tight using 2 hexagon head safety screws M12 x 25 (43) each.

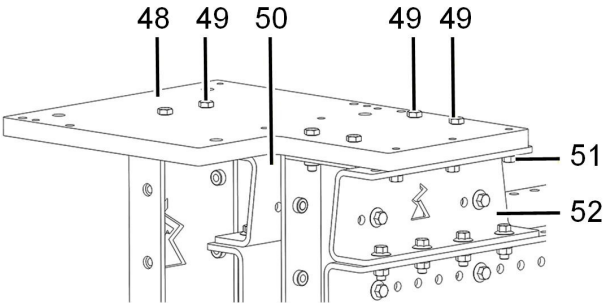


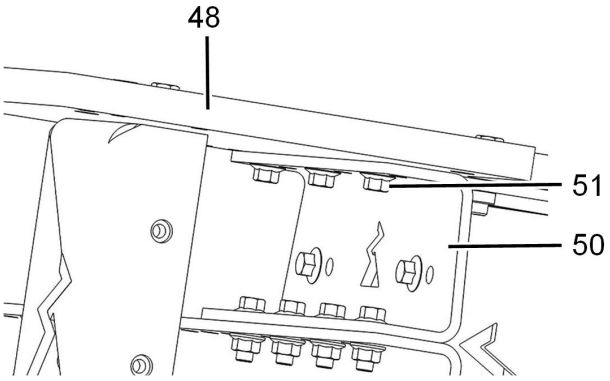
27. Position the support (46) on the floor plate.
28. Screw the support onto the floor plate hand-tight using 2 hexagon head safety screws M12 x 25 (47).



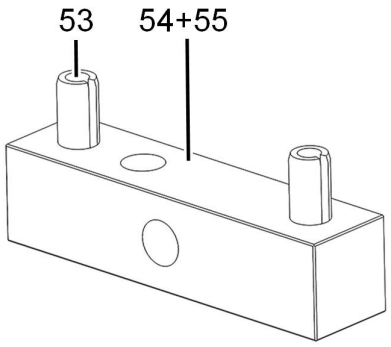
ATTENTION! The motor base plate (45) weighs approximately 42 kg.

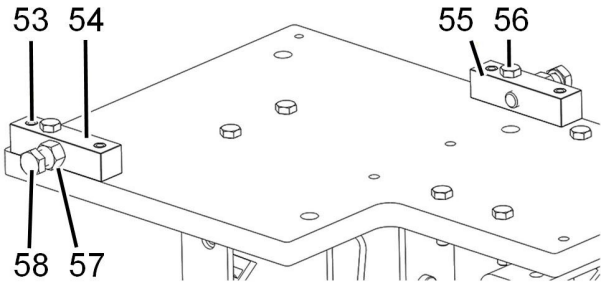
29. Position the motor base plate (48) on the supports and lifts.
30. Screw the motor base plate (48) onto the 3 supports hand-tight from above using 2 hexagon head screws M12 x 50 (49) on each support.
31. Screw the motor base plate (48) onto the 2 lifts (50 + 52) hand-tight from below using 3 hexagon head safety screws M12 x 25 (51).



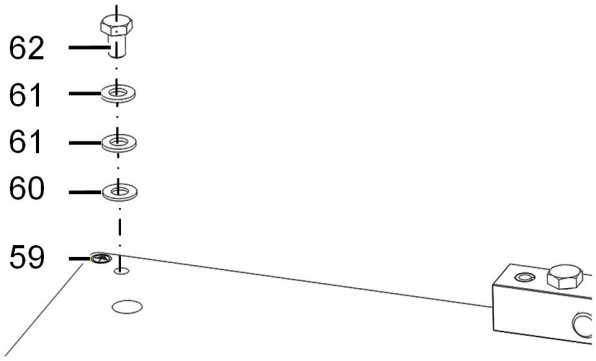


32. Drive 2 clamping pins 12 x 50 x 2 (53) into both arresters (54 + 55) so that they are flush at the bottom.
33. Position the 2 arresters (54 + 55) and screw them hand-tight onto the motor base plate using one hexagon head screw M12 x 50 (56) for each arrester.
34. Drive in both clamping pins 12 x 50 x 2 (53) so they are flush with the 2 arresters (54 + 55).
35. Screw the 2 hexagon head screws M16 x 65 (58) lightly into the arresters using one hexagon nut M16 (57) each to lock.

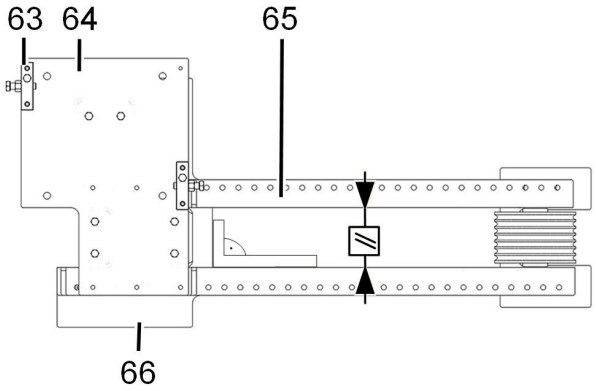




36. Install the grounding screw on the motor base plate.
    Screw in the contact disc (60) and the two washers (61) hand-tight with the hexagon head screw M10 x 16 - 8.8 (62).
    Align the contact disc (60) so that the 6 teeth face the painted surface.
37. Glue on the grounding information sign (59).



38. Align the 2 longitudinal beams (65) so that they are parallel to each other.
39. Align the floor plate on the drive side (66) at right angles (90°) to the longitudinal beams.
40. Align the arresters (63) flush with the motor base plate (64).
41. Fasten all cylinder screws to **tightening torque**, see *Screw tightening torques, page 22*.
    Start with the steel parts.
    Finally, fasten the deflector pulley parts.



6.2 Installing the elevator machine

In addition, use the following special tools:

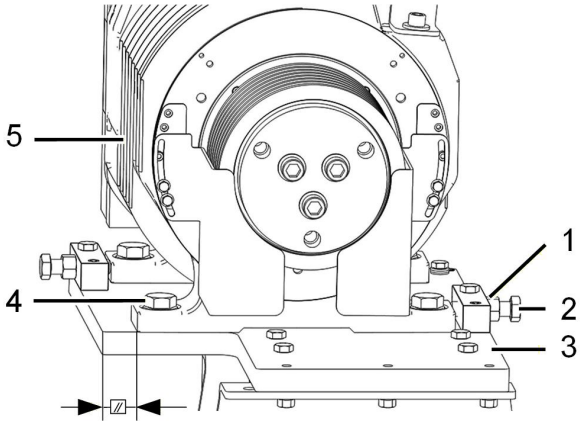
- Torque wrench for tightening torque of 390 Nm, size 30

Procedure:

1. Position the elevator machine (5) on the motor base plate (3).

   The elevator machine must be positioned so that the traction sheave and the deflection pulley are aligned with each other.
2. Align the motor feet so they are parallel to the motor base plate.
3. Screw the elevator machine onto the motor base plate hand-tight using 4 hexagon head screws M20 x 45 (4) and 4 washers.
4. Screw the 2 fixing screws (2) at right angles hand-tight against the motor feet and lock each one with a hexagon nut (1)
5. Fasten the 4 hexagon head screws M20 x 45 (4).

   Tightening torque 390 Nm



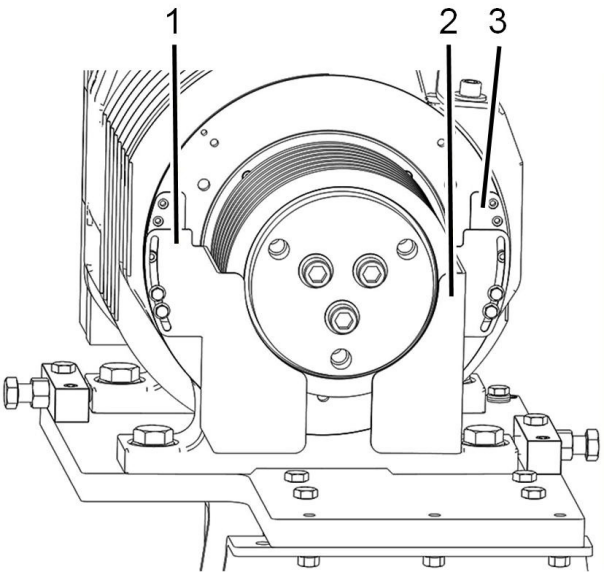
6.3 Fitting the ropes

In addition, use the following special tools:

- Torque wrench with tightening torque 9.5 Nm with Allen key, size 5
- Torque wrench for tightening torque of 23 Nm with Allen key, size 6
- Torque wrench for tightening torque of 9.5 Nm, size 10

Procedure:

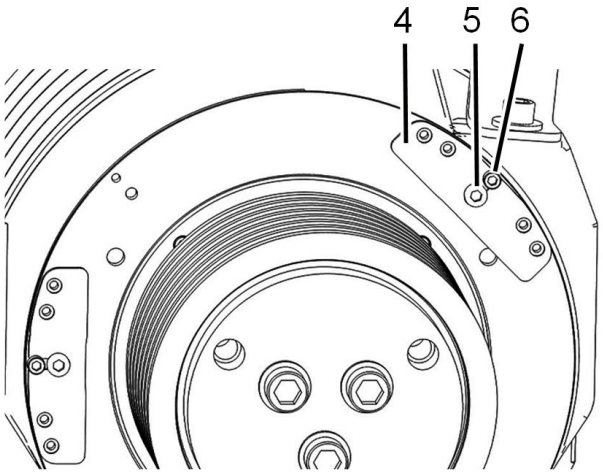
1. Remove the rope guard (1).
2. Remove the rope guard (2) and fixing plate (3).



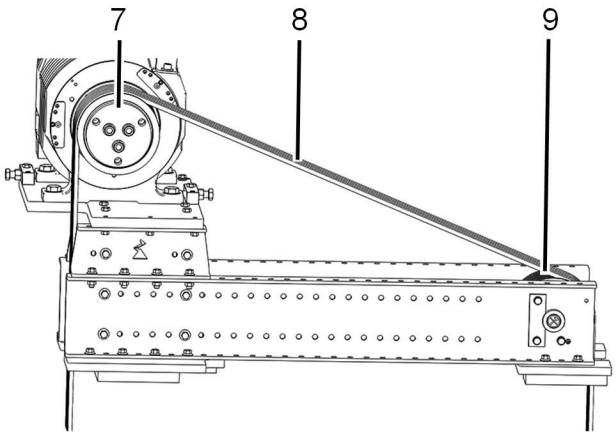
3. Screw the fixing plate (4) onto the housing using the cylinder screw M8 x 16 (5) and the cylinder screw M6 x 12 (6).
4. Fasten the cylinder screws to the following **tightening torques**.

   Tightening torque M6 = 9.5 Nm

   Tightening torque M8 = 23 Nm

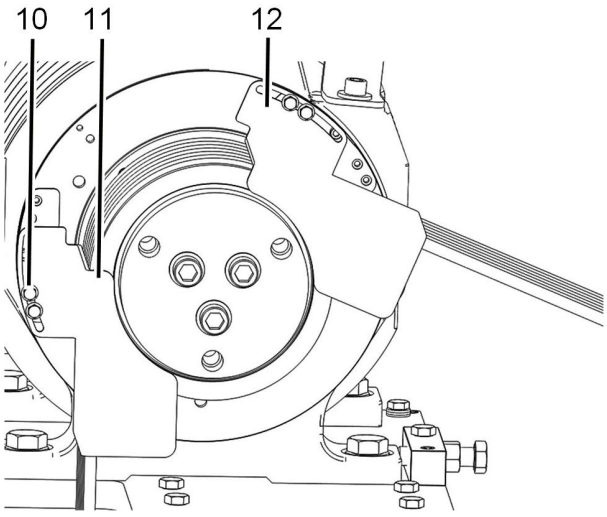


5. Fit the ropes (8).
6. The grooves of the traction sheave (7) and the deflection pulley (8) must be aligned centrally with each other.

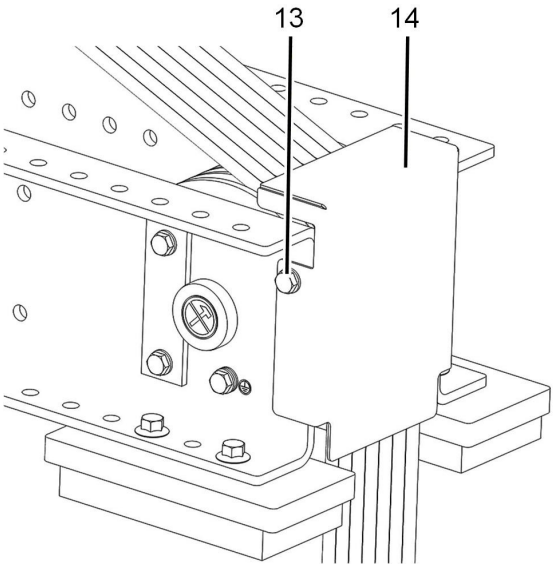


7. Mount the rope guard (10 + 12) on the traction sheave using 2 hexagon head screws M6 x 12 (11) each, at a distance of 2 mm to 3 mm from the ropes.
8. Fasten the hexagon head screws M6 x 12 (11) to the following **tightening torque**.

   Tightening torque 9.5 Nm

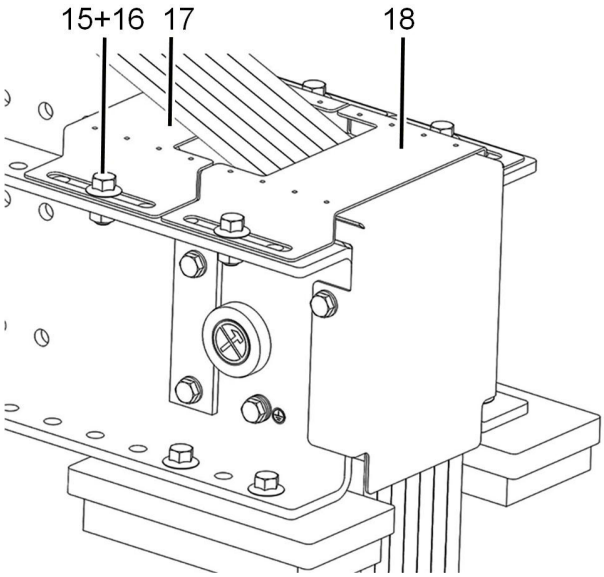


9. Screw on the rope guard (14) hand-tight using 2 hexagon head screws M10 x 16 and 2 washers 10 (13).



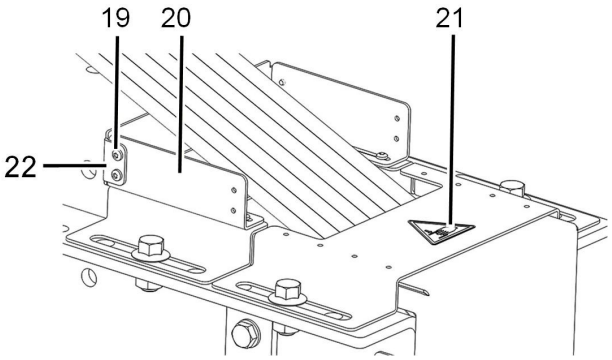
10. Screw on the 2 nip guards (17 + 18) hand-tight using one hexagon head safety screw M12 x 25 (15) and one locking nut M12 (16) each.

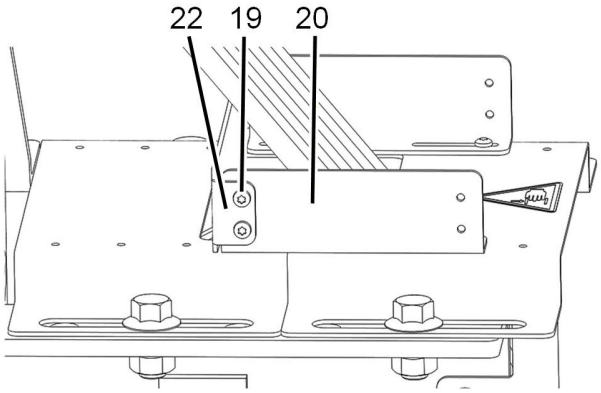
    It must still be possible to move the nip guards.



11. Screw the bracket (22) onto the 2 holders (20) with 4 self-tapping screws M4 x 6 (19).
12. Position the holders with brackets on one nip guard and screw on with 2 self-tapping screws M4 x 6 (19) each.

    Depending on the entry angle of the rope, the holders and the bracket must be positioned on the respective nip guard, see pictures.
13. Screw on the nip guards hand-tight at a distance of 2 mm to 3 mm from the ropes.
14. Attach the warning label (21).





6.4 Installing the emergency stop switch, optional

In addition, use the following special tools:

- Torque wrench for tightening torque of 120 Nm, size 17

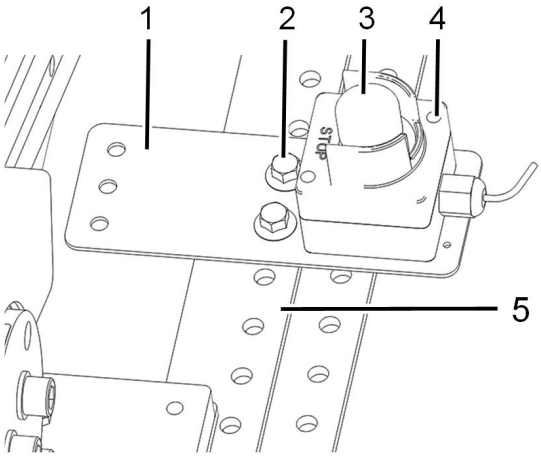
Procedure:

1. Screw the emergency stop switch (3) onto the plate (1) using 2 cylinder screws M4 x 16, 2 washers 4 and 2 hexagon nuts M4 (4).

   Tightening torque 2.8 Nm.
2. Screw the plate (1) with the emergency stop switch anywhere onto the machine frame using 2 hexagon head safety screws M12 x 25 and 2 locking nuts M12 (2).

   Position the emergency stop switch so that it is easily accessible and can be easily actuated.

   Tightening torque 40 Nm.



7 Service plan

Intervals	Component	Activity
Annually	Rope guard	▷ Check the clearance of 2 mm to 3 mm to the ropes. The ropes must not touch the rope guard.
	Nip guard	▷ Check the clearance of 2 mm to 3 mm to the ropes. The ropes must not touch the nip guard.

8 Disposal



- ▷ Dispose of the product professionally and in an environmentally friendly way in accordance with the respective national legal stipulations.
- ▷ Separate the materials by type and in an environmentally-friendly way.
- ▷ If necessary, employ a specialised contractor to handle the disposal.

9 Certificates

9.1 Calculation proof

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STATIC CALCULATION

for ZAframe MK4850A

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Editor **Ingenieurbüro Berberich GmbH**
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The necessary static calculations for the ZAframe MK4850A was carried out by the editor in accordance with the specification version V03 from May 15, 2025. In the course of these calculations, the most highly stressed areas were identified and subsequently verified by ZIEHL-ABEGG SE using additional suitable calculation methods.

Dimensions, materials, profile cross-sections and fasteners (welds, screws with tightening torques) can be found in the following construction drawings from Ziehl-Abegg SE:

- A-M-6831 000
- A-00-865-0071 001
- A-00-869-0087 000
- A-00-869-0090 002
- A-20-100-0079 000
- A-00-800-0013 001
- A-00-866-0018 000
- A-00-869-0088 001
- A-00-869-0091 000
- A-M-6823 000
- A-00-865-0070 000
- A-00-866-0019 001
- A-00-869-0089 001
- A-00-869-0092 000

The construction was calculated for the following static load:

→ max. resulting axle load on the drive 47.600 N
→ max. rope forces on cabin side 23.800 N
→ max. rope forces on counterweight side 23.800 N

Calculation details and conditions can be found detailed in our static calculation from June 4, 2025 (Our project number 25-006). This is available from Ziehl-Abegg SE.

Created: Wertheim - June 4, 2025

M.Eng. B.Eng. Felix Berberich
Freiwilliges Mitglied Nr. 6232
Ingenieurkammer Baden-Württemberg
Sachverständiger nach § 15 (3) 1 LBOAVO Standsicherheit

Felix Berberich, M.Eng. (IWE)

mb-Viewer Version 2025 - Copyright 2024 - mb AEC Software GmbH

10 Technical data

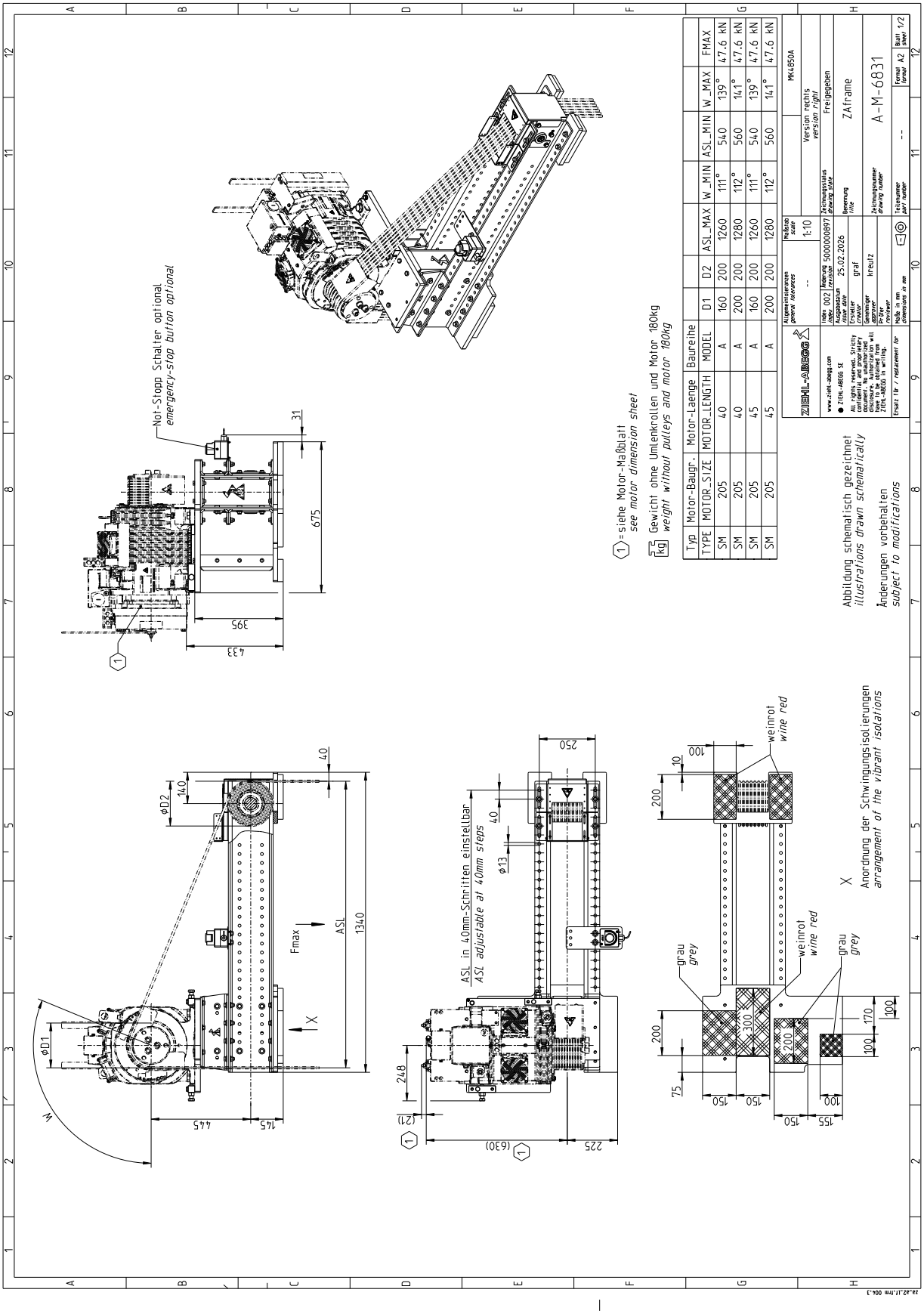
10.1 Screw tightening torques

Bolt size – Quality	Tightening torque
M4 - 8.8	2.8 Nm
M6 - 8.8	9.5 Nm
M8 - 8.8	23 Nm
M10 - 8.8	46 Nm
M12 - 8.8	79 Nm
M12 - Hexagon head safety screw	120 Nm
M20 - 8.8	390 Nm

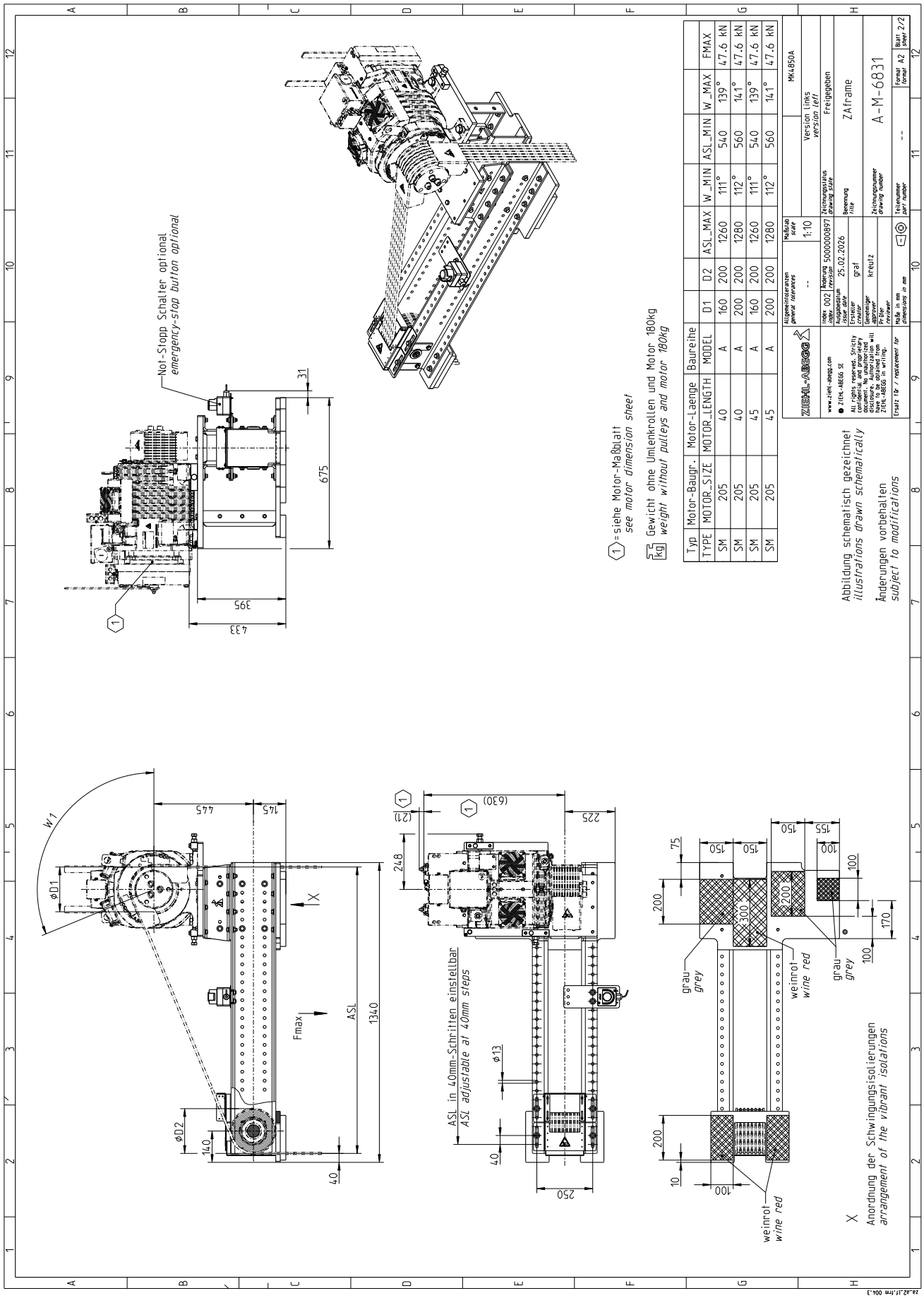
10.2 Technical data for the emergency stop switch

Contact	NC contact
Degree of protection	IP54
Cable length	10 m
Version	With pull release and protective collar

10.3 Dimension sheet



Typ	Motor-Baugr.	Motor-Laenge	Baureihe								
TYPE	MOTOR_SIZE	MOTOR_LENGTH	MODEL	D1	D2	ASL_MAX	W_MIN	ASL_MIN	W_MAX	FMAX
SM	205	40	A	160	200	1260	111°	540	139°	47.6 kN
SM	205	40	A	200	200	1280	112°	560	141°	47.6 kN
SM	205	45	A	160	200	1260	111°	540	139°	47.6 kN
SM	205	45	A	200	200	1280	112°	560	141°	47.6 kN


Not-Stopp Schalter optional
emergency-stop button optional
1 = siehe Motor-Maßblatt
see motor dimension sheet
Gewicht ohne Umlenkrollen und Motor 180kg
weight without pulleys and motor 180kg
Typ TYPE | Motor-Baugr. MOTOR_SIZE | Motor-Laenge MOTOR_LENGTH | Baureihe MODEL | D1 | D2 | ASL_MAX | W_MIN | ASL_MIN | W_MAX | FMAX
SM 205 40 A 160 200 1260 111° 540 139° 47.6 kN
SM 205 40 A 200 200 1280 112° 560 141° 47.6 kN
SM 205 45 A 160 200 1260 111° 540 139° 47.6 kN
SM 205 45 A 200 200 1280 112° 560 141° 47.6 kN
ZIEHL-ABEGG
MK4850A
Version links
version left
Freigegeben
ZAframe
A-M-6831
Abbildung schematisch gezeichnet
illustrations drawn schematically
Änderungen vorbehalten
subject to modifications
ASL in 40mm-Schritten einstellbar
ASL adjustable at 40mm steps
Anordnung der Schwingungsisolierungen
arrangement of the vibrant isolations
grau grey
weinrot wine red

10.4 Legend for dimension sheet

1	*See motor dimension sheet*
	ASL can be adjusted in 40 mm increments
X	*Arrangement of the vibration insulation*
	Grey
	Burgundy
	Emergency stop switch, optional
	Weight without deflection pulley and elevator machine, 180 kg
	Figure schematically drawn
	Subject to changes

Notes

Service

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