

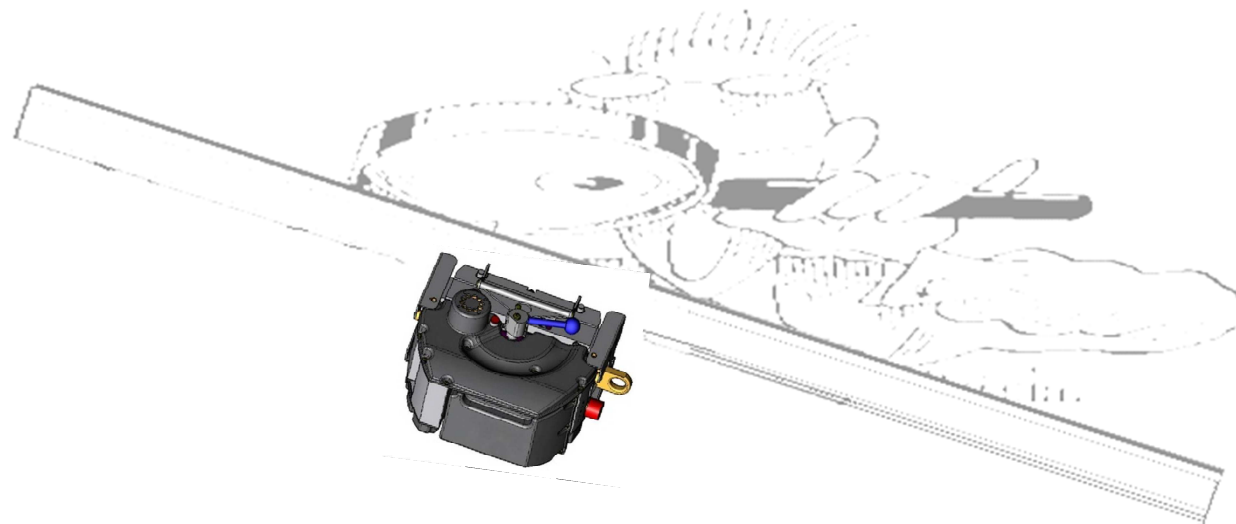


Ihr Partner in Sachen Sicherheit

Welcome to our Training Course

Using and Checking

HACA Clifters



Clifter_1219



Ihr Partner in Sachen Sicherheit

About our Company **HACA-LEITERN**

(Lorenz Hasenbach GmbH u. Co. KG)

Corporate form: Business Partnership
family owned

Directors: Mrs H. Hassler
Mr Dipl.-Ing. K. Alm

Industry: Ladder manufacturer
Certified acc. to: **DIN-ISO 9001-2015**

Standards activities since 1937

- Steps and ladders
- Portable fire ladders
- Stationary ladders
- Emergency ladders
- Climbing protection

Head office: Bad Camberg i/Ts.
Dieselstraße 12

Founding year: 1888

Agencies: 12 warehouses
and specialist dealers

Internetseite: www.haca.com
Email: hallo@haca.com

Tel. (0 64 34) 25-0

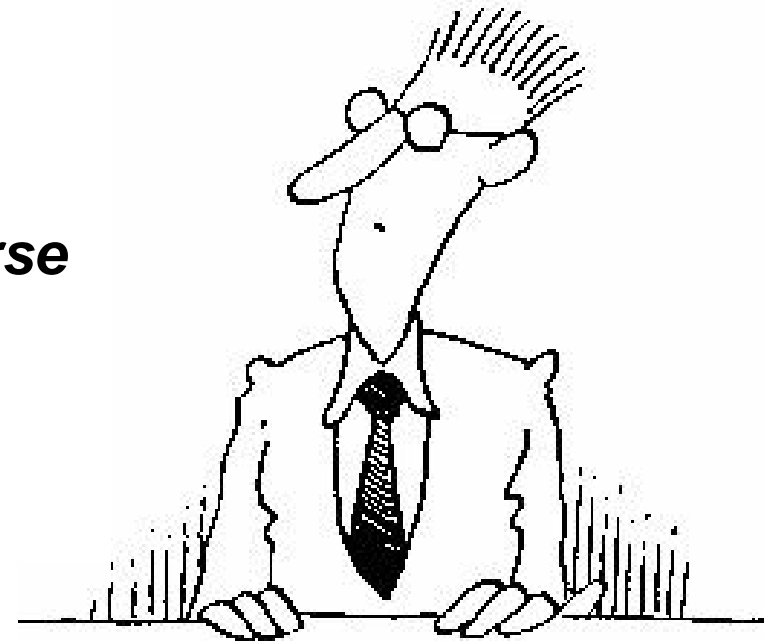
Fax (0 64 34) 25-500

Company philosophy:

We are partners in matters of safety!

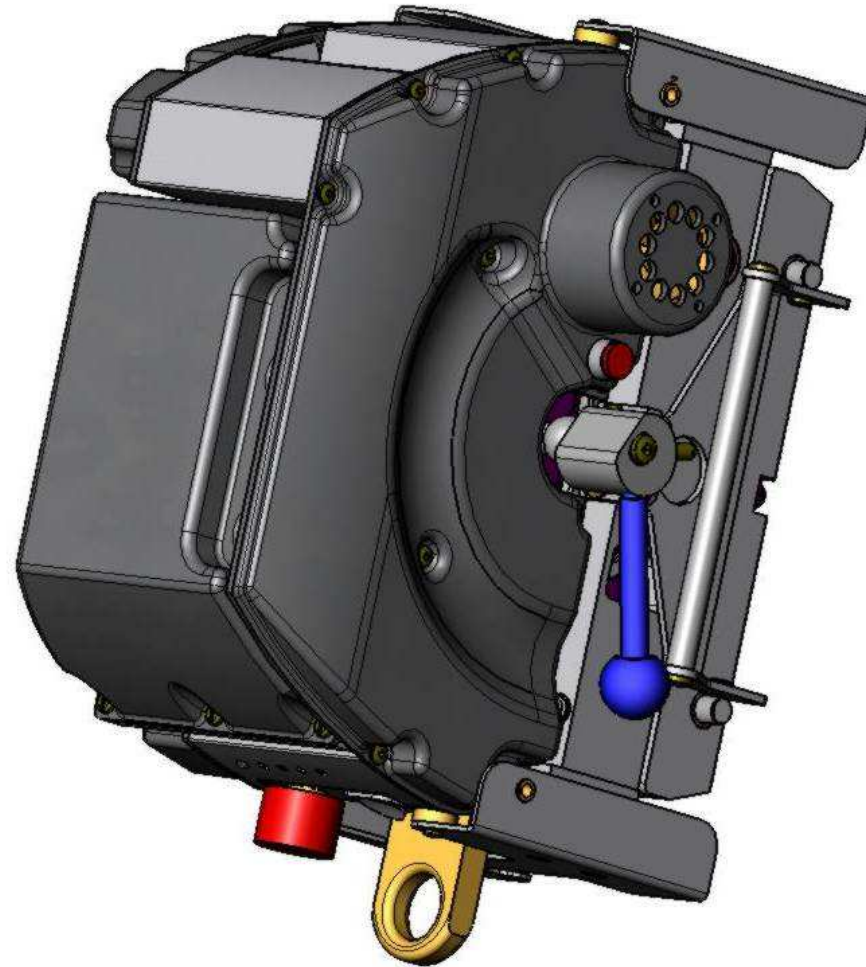
Round of Introductions

- ***First name***
- ***Surname***
- ***Occupation***
- ***Field of activity***
- ***Expectations of this course***
- ***Hobby***



Possible fields of application:

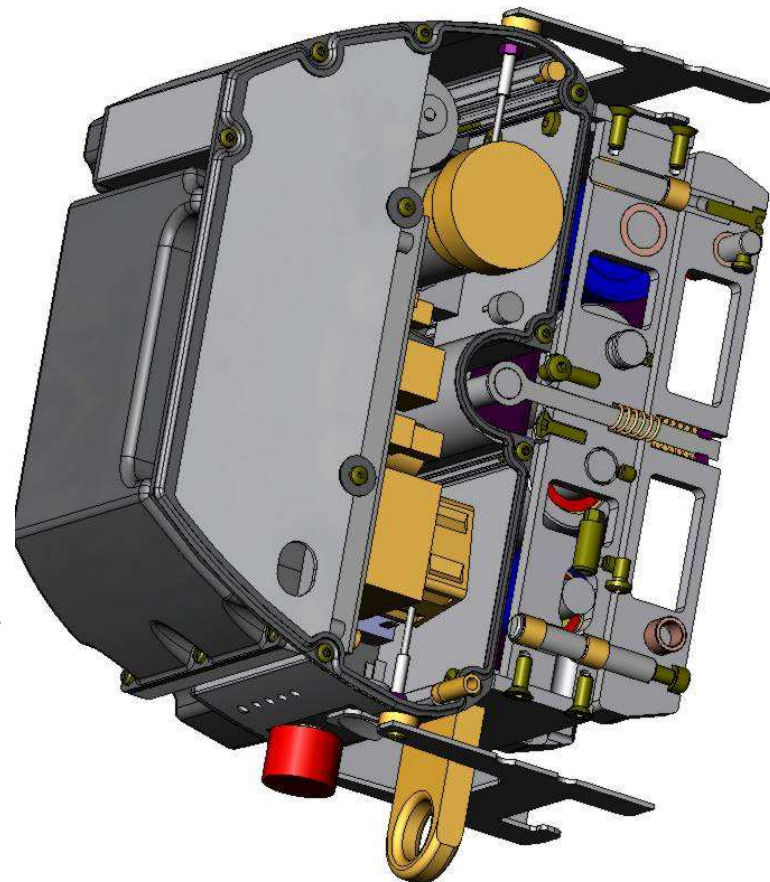
- Climbing methods with HACA fall protection
- Wind energy plants
- Pylons
- Chimneys
- Bridges
- Towers
- Silos
- Buildings



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Technical Data:

- Tractive output [1] 50kg [2] 70 kg
- Climb rate 400m (per battery charge)
- Velocity 30m/min
- Automatic speed adjustment to the climbing speed of the climber
- High-capacity Li-Ion battery
- Automatic shutoff at obstacles
- Automatic holding brake when [1] 50kg or [2] 70kg respectively is exceeded
- Weight kg 8,6 kg



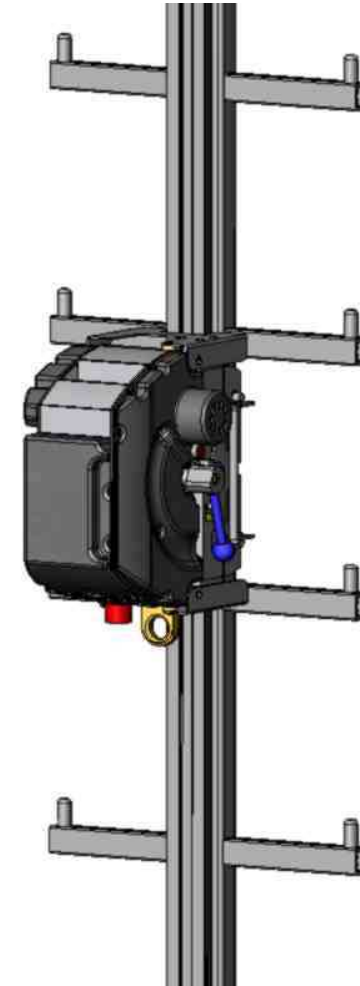


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Characteristics:

- Easy to maintain
- Versatile
- Battery can be exchanged and charged on the move
- Allows ergonomic climbing
- Automatic solo journeys possible, both upward and downward
- Emergency **STOP** on all switches and buttons when in operation
- The climbing aid switches off after 5 seconds standstill
- Is tested with Haca fall arresters 0529.7400, 7430 and 7450 and is integrated in the fall arrester certificate

! Transporting loads is strictly forbidden !



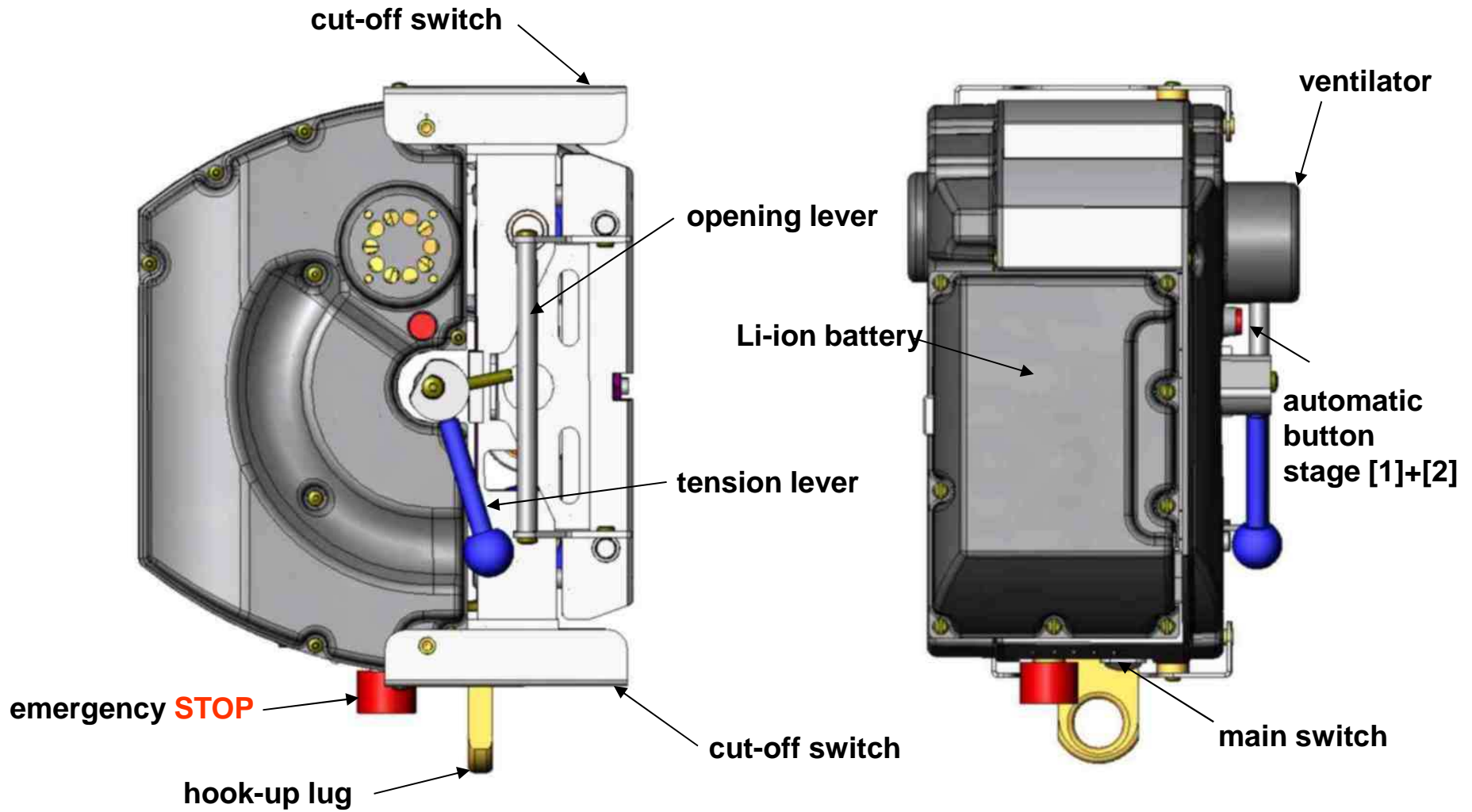
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Starting up:

- wear gloves
- wear head protection
- wear PPE



It is forbidden to transport materials with the Clifter!



Clifters may only be used on clean rails (oil, ice etc.).

! End stops ! Must be checked before using a Clifter – have they been fitted correctly?!



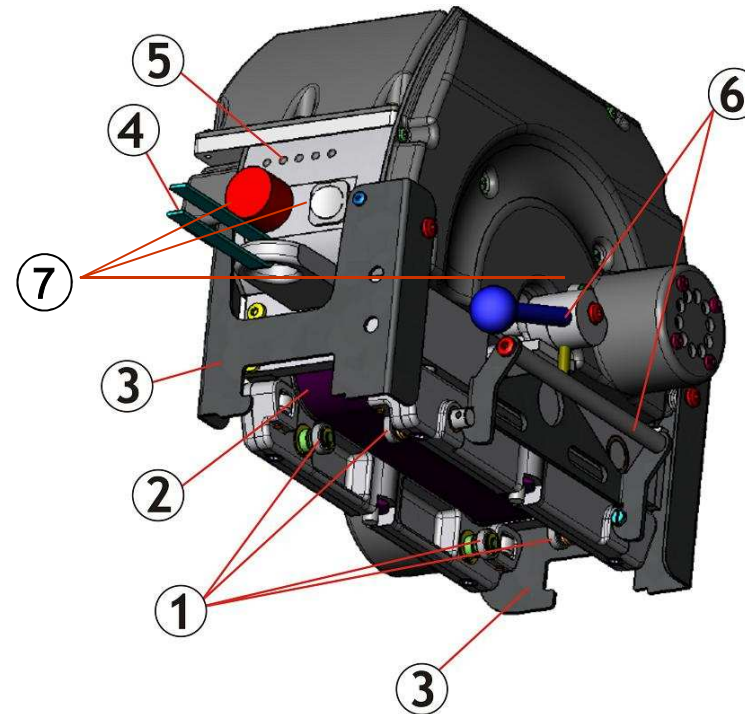
A visual check must be carried out before use



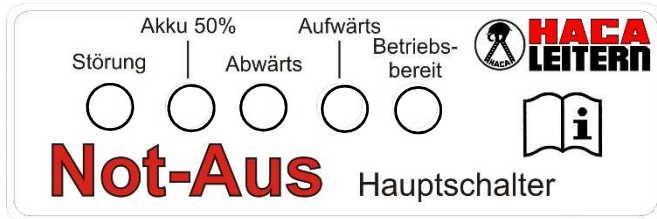
Visual check  carried out as follows in accordance with operating instructions:

Check the safe condition of ball bearings, belt, cut-off switches, holding rope and tension lever.

- ① Ball bearing
- ② Belt
- ③ Cut-off switches
- ④ Holding rope
- ⑤ LED display
- ⑥ Tension lever
- ⑦ Switches and buttons



Operating Mode Display



= Flashing
 = Off
 = Constant

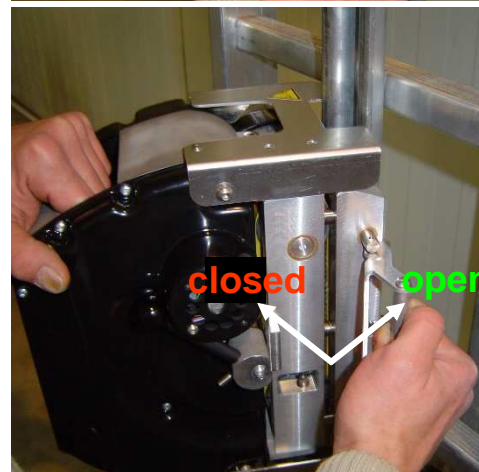
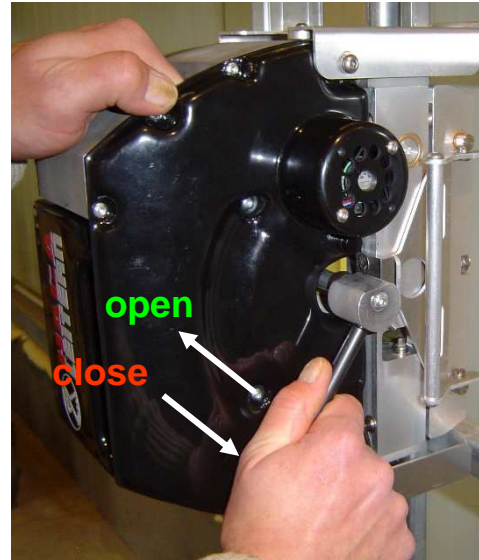
| | Störung | Akku 50 % | Abwärts | Aufwärts | Betriebs- bereit | |
|--|---------|-----------|---------|----------|---------------------|---|
| | rot | rot | gelb | gelb | grün | Device ready for operation -> battery charged 50 – 100 % |
| | rot | rot | gelb | gelb | grün | Device ready for operation -> battery charged < 50 % |
| | rot | rot | gelb | gelb | grün | If battery charge < 25 % the display flashes. At this point an upward journey of appr. 30 m is still possible |
| | rot | rot | gelb | gelb | grün | Upward journey (yellow LED flashes at stage 2) |
| | rot | rot | gelb | gelb | grün | Downward journey (downward climb) |
| | rot | rot | gelb | gelb | grün | Solo trip (downward without climber) |
| | rot | rot | gelb | gelb | grün | Upper cut-out switch is activated (yellow LED flashes) |
| | rot | rot | gelb | gelb | grün | Lower cut-out switch is activated (yellow LED flashes) |
| | rot | rot | gelb | gelb | grün | Overload! Activate cut-out switch and re-start using direction button |
| | rot | rot | gelb | gelb | grün | Shut-off flaps must be operated |
| | rot | rot | gelb | gelb | grün | Switch off and restart |

Mounting onto the Rail

1. Position the main switch to Off
 2. To open the tension lever [1] turn upwards.
 3. Turn the release lever [2] to the right to **open** and mount the climber onto the rail in breast height.
(This can only be done between two rungs.)
 4. Turn release lever [2] to the left to **close**.
 5. Close tension lever [1] by turning downwards.
- Check: [3] Bolt must be positioned above the release lever.
6. The climber must check that the Clifter is properly mounted to the rail!
 7. Ball bearings must be set correctly on the rail ! [4]

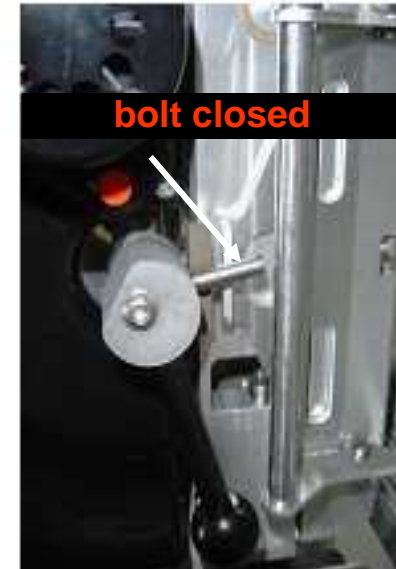
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Pic 1



Pic 2

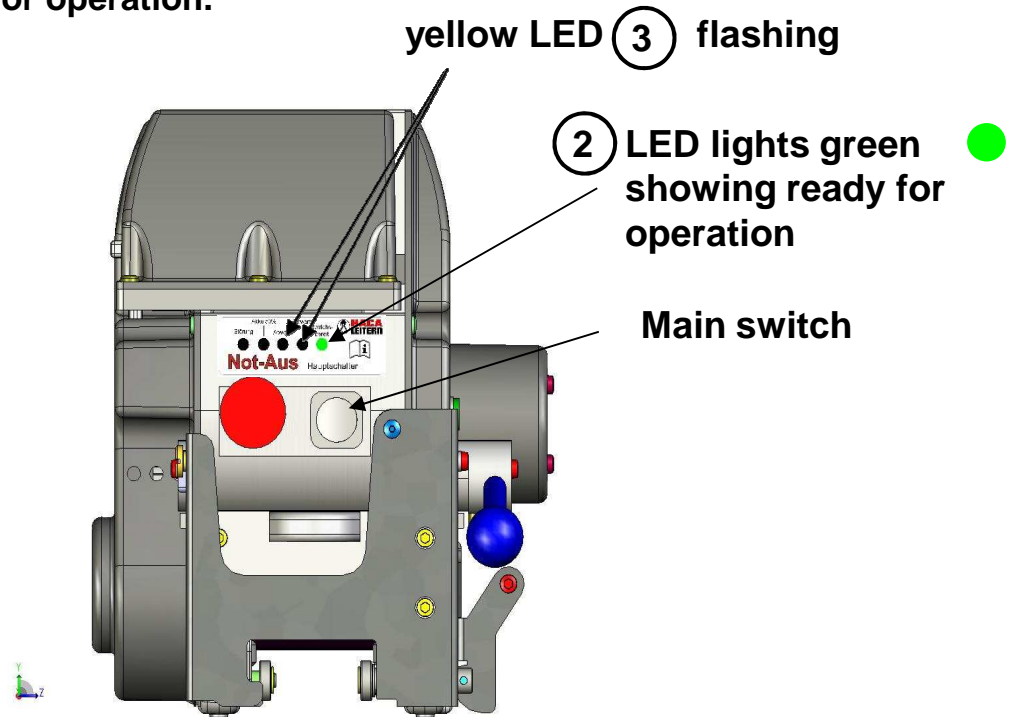
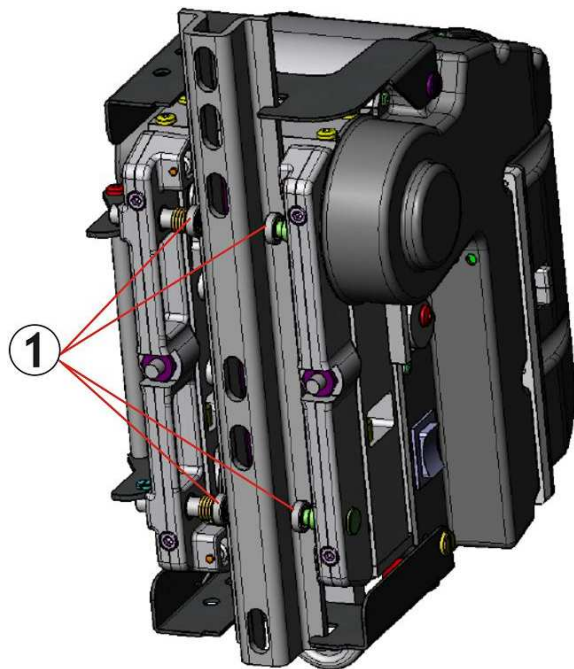
Pic 3



Pic 4

After mounting, check that it fits properly

1. After mounting the rail, check that the ball bearings are set on the rail properly. (1)
2. After switching on the main switch, the green LED (2) appears and the yellow LEDs (3) flash.
3. After actuating the shut-off flaps, only the green LED (2) lights up and the Clifter is ready for operation.



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Climbing Upward

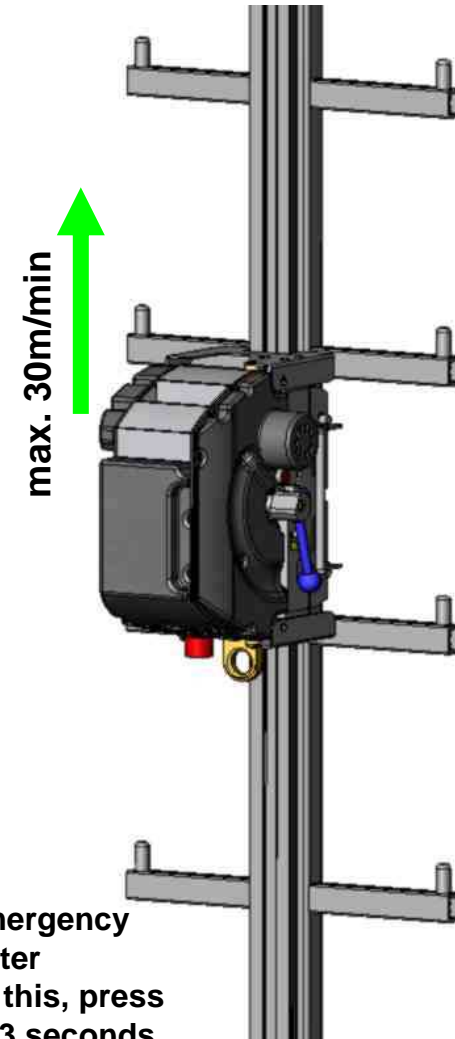
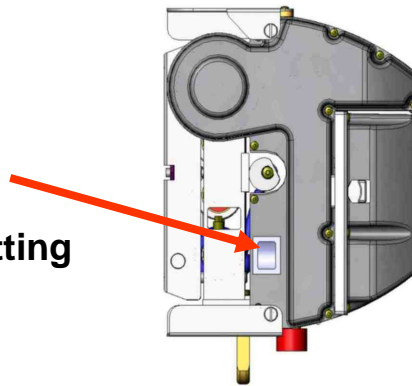
To climb upward the Clifter is to be set to upwards mode. The minimum weight of climber incl. Equipment must be more (+15 kg) than the max. traction power 50 kg (minimum weight of climber 65 kg); Traction power 70 kg (minimum weight of climber 85 kg). The maximum weight of the climber is limited by the ladder itself at.

Press button upward for 3 sec.

Lamp lights upwards (50kg)

Lamp flashes upwards (70kg)

! Attention ! Only starts off after letting go of the button.



The Clifter stops after pressing any button. If the main switch or the emergency stop are activated, the device has to be restarted. If overloaded the clifter automatically switches to disturbance and has to be reactivated. To do this, press the cut-off switch and the direction button for the desired direction for 3 seconds.

Downward Journey for Downward Climb

The Clifter is to be mounted onto the HACA rail.

The climber must secure himself with his personal protective equipment (PPE) against falling.

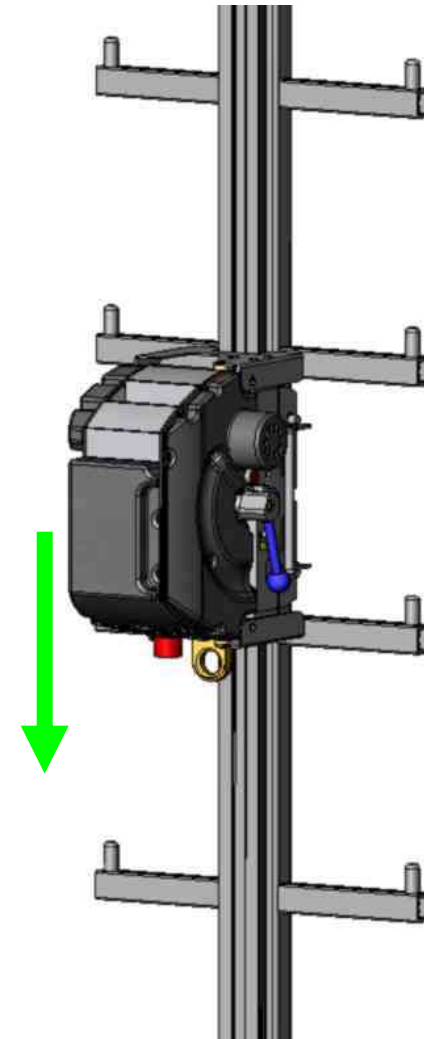
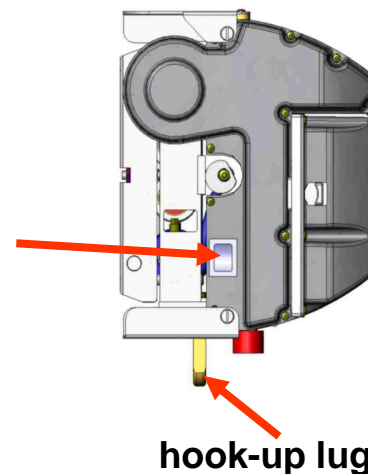
The lanyard is to be fixed to the hook-up lug on the Clifter and either to the stomach or breast eyelet on the harness.

Press button downward for 2 sec.

Lamp lights up downwards and Clifter moves appr. 15 mm downwards.

! Attention ! The clifter does not drive off it has to be pulled down by the climber nach unten gezogen werden.

By doing so pressure is taken off the body.



Downward Journey without Climber

The Clifter is to be mounted onto the HACA rail.

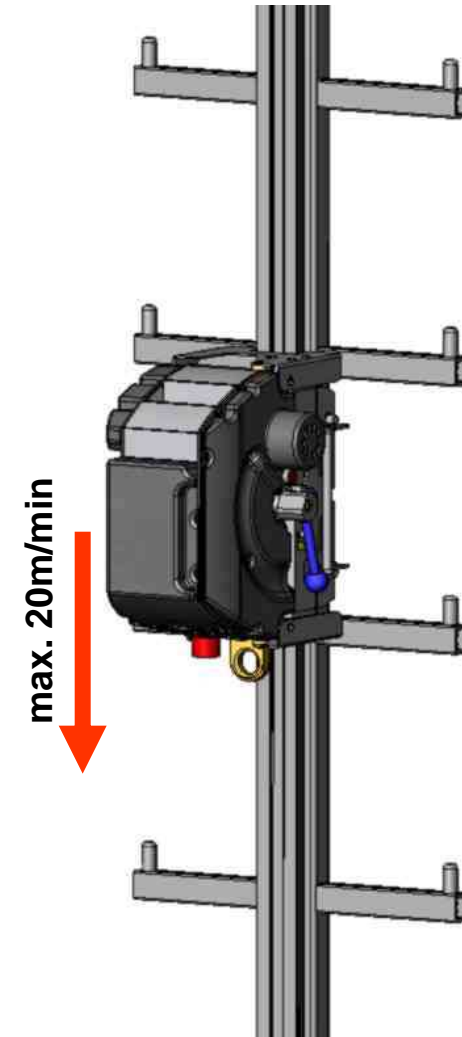
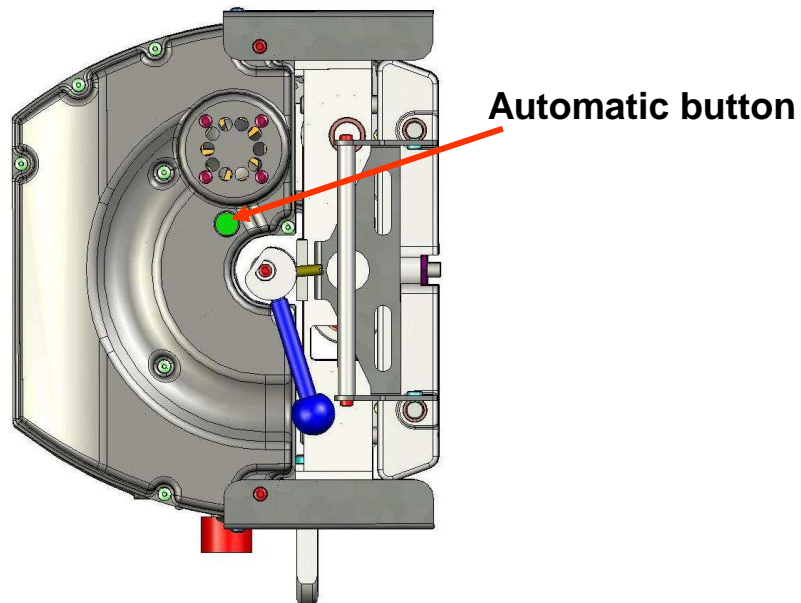
Be sure that there are no obstructions or persons on the ladder or on the rail. ⚠

Switch the main switch to **on** and operate the shut-off flaps.

Press downward button and automatic

button at the same time for 3 sec. Once released, the Clifter travels downwards.

Maximum velocity 20m/min.



Upward Journey without Climber

The Clifter is to be mounted onto the HACA rail.

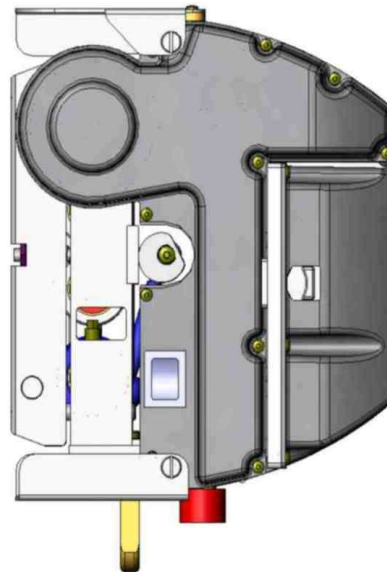
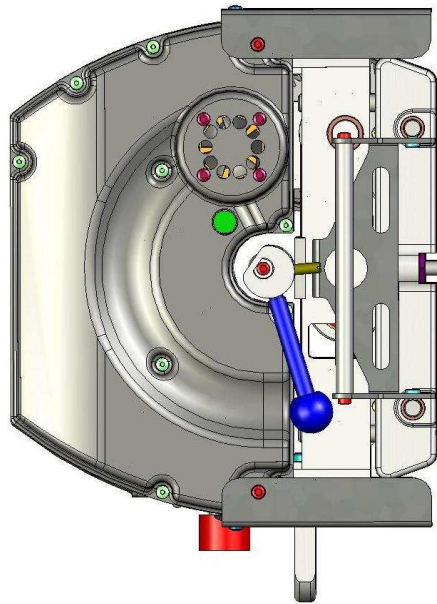
Be sure that there are no obstructions or persons on the ladder or on the rail. 

Switch main switch to **on** and operate the shut-off flaps.

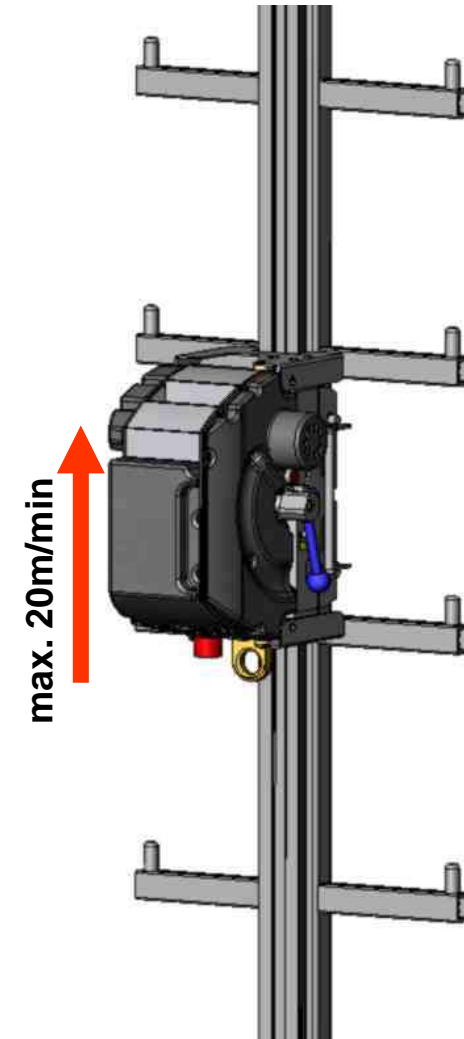
Press upward button and automatic

button at the same time for 3 sec. Once released the Clifter travels upwards.

Maximum velocity 20m/min.

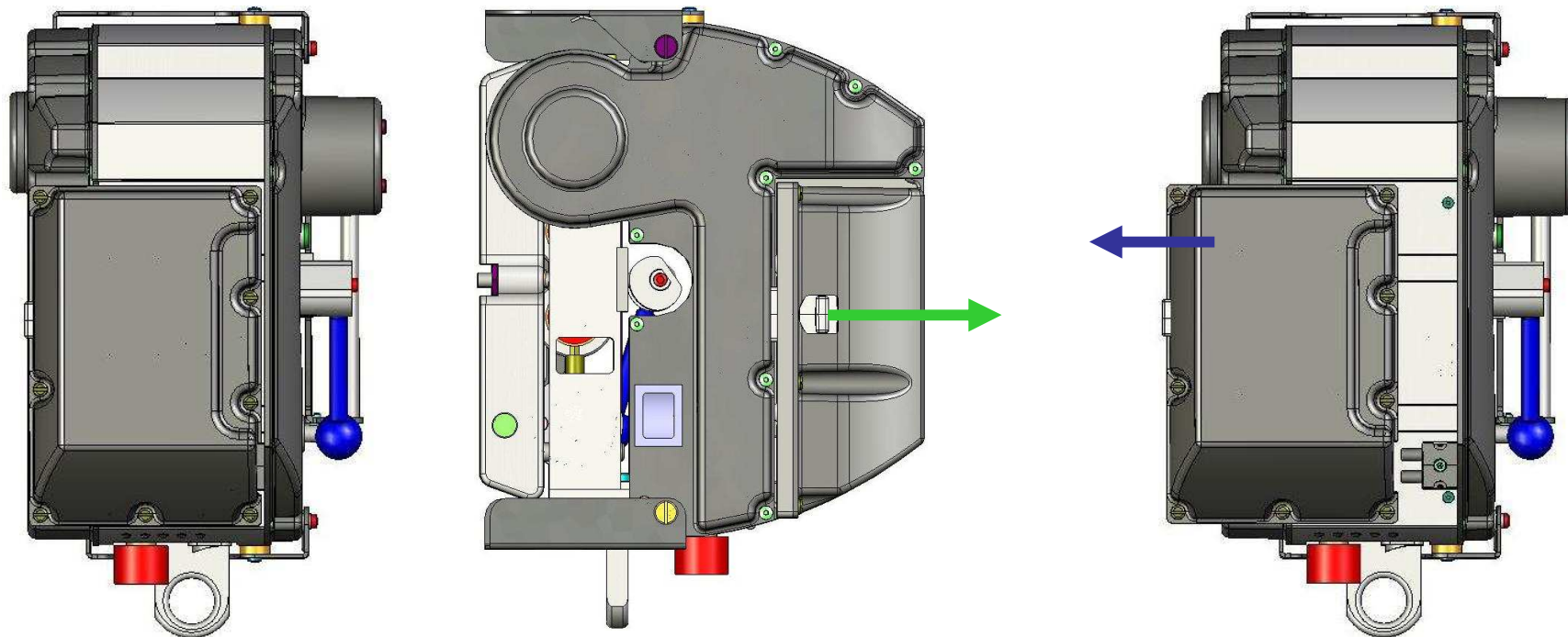


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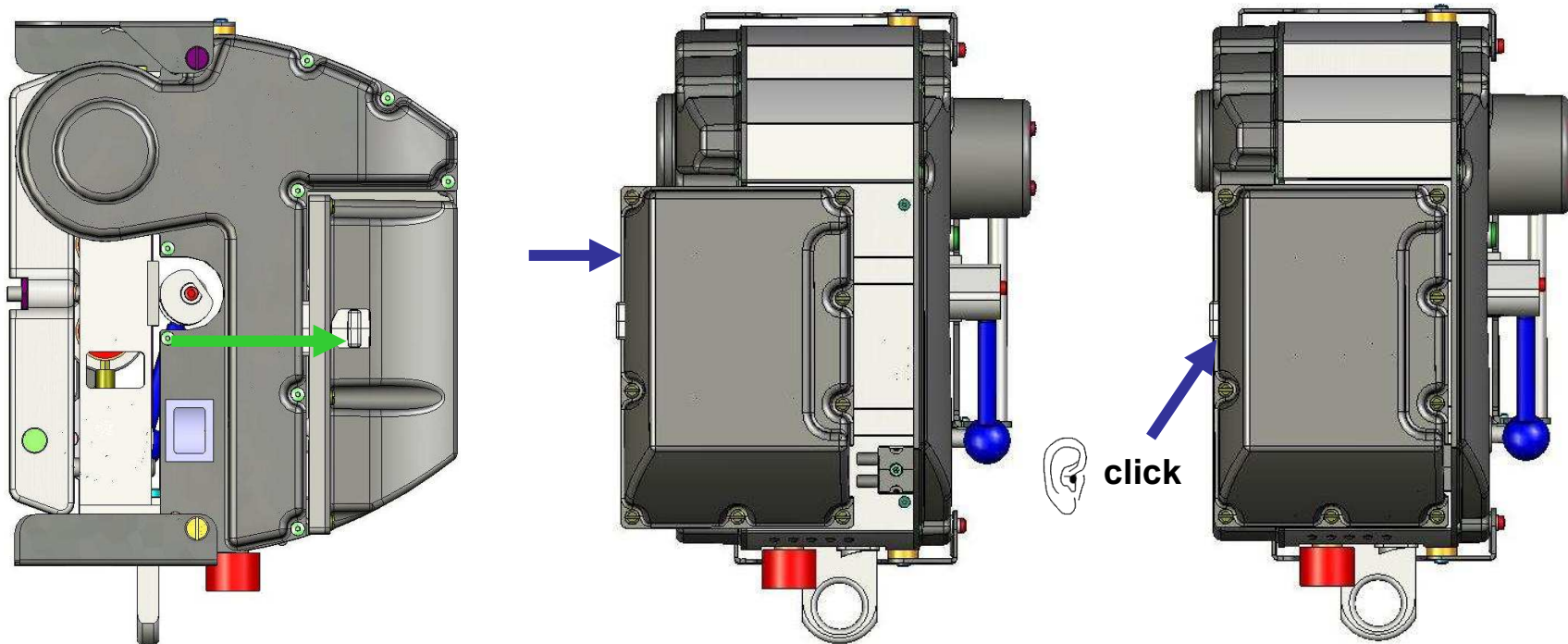
Changing the Battery (removal)

Push the unlocking mechanism forwards Unload the battery to the left



Changing the battery (installation)

locking device latches automatically !

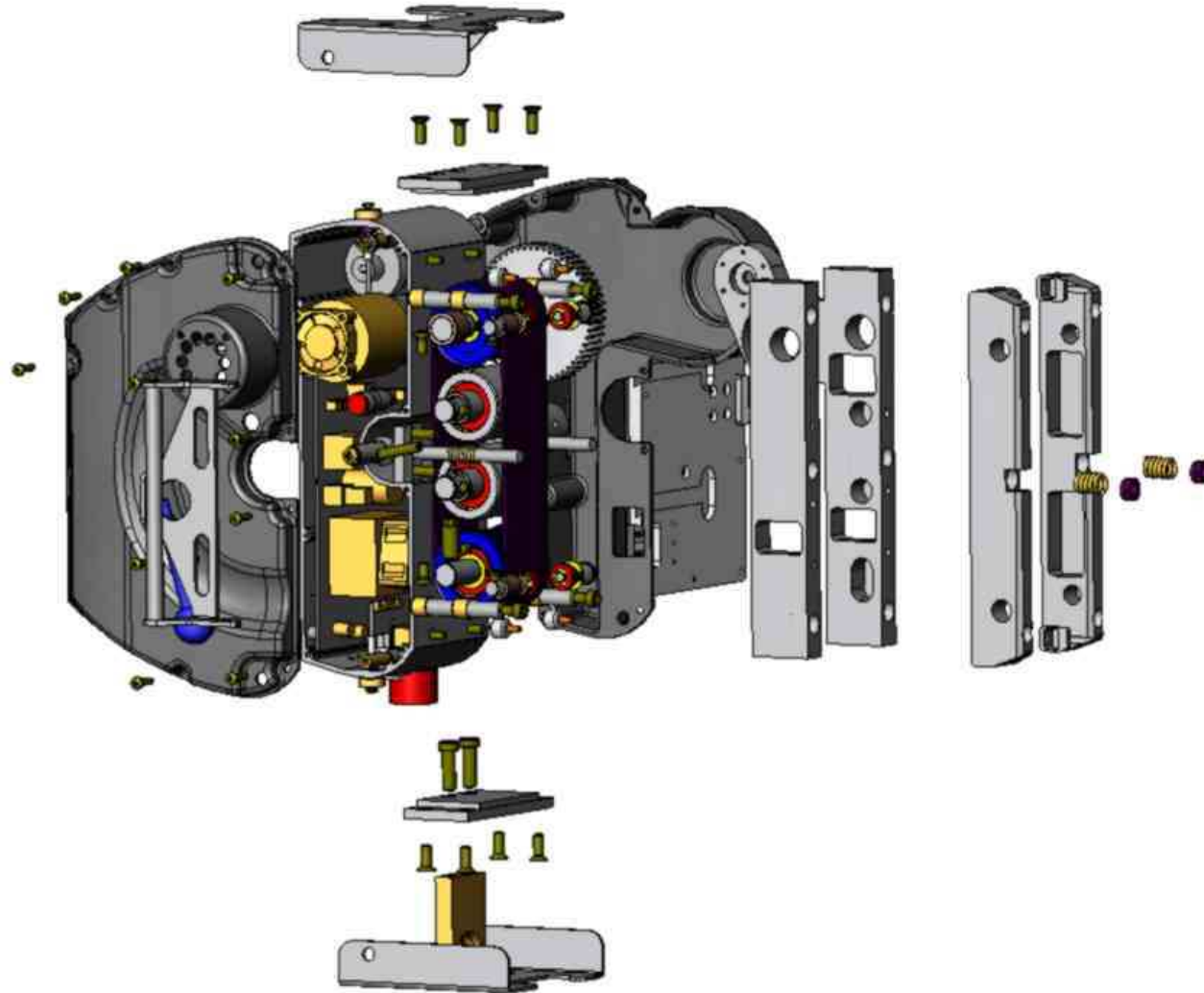




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19