

# Yale<sup>®</sup>

## Yalelift

### Manual chain hoist

Model Yalelift capacity 2000kg

Model Yalelift capacity 3000kg

Model Yalelift capacity 5000kg

Model Yalelift capacity 10000kg



# Maintenance manual

(Additional to the operating manual)

Concern the hoist :

Yalelift 2000KG – 1 chain fall with 6 meters Reference **AEROYL2T-1B6M**

Yalelift 2000KG – 1 chain fall with 4 meters Reference **AEROYL2TM-1B4M**

Yalelift 3000KG – 1 chain fall with 3 meters Reference **AEROYL3T-1B3M**

Yalelift 5000KG – 2 chains falls with 4 meters Reference **AEROYL5TMM-2B4M**

Yalelift 10000KG – 3 chains falls with 6 meters Reference **AEROYL10T-3B6M**

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C O R P O R A T I O N



## Yale, manual chain hoist, Yalelift type



### Technical features :



| Technical features               | Yalelift type |       |           |           |        |
|----------------------------------|---------------|-------|-----------|-----------|--------|
|                                  |               |       |           |           |        |
| Capacity                         | [kg]          | 2000  | 3000      | 5000      | 10000  |
| Standard lift                    | [m]           | 4m/6m | 3m        | 4m        | 6m     |
| Number of chain falls            |               | 1     | 1         | 2         | 3      |
| Chain dimensions                 | [mm]          | 8x24T | 10x30T    | 10x30T    | 10x30T |
| Hand chain overhaul for 1m lift  | [m]           | 71    | 87        | 174       | 261    |
| Length between hooks             | [mm]          | 370   | 450 / 530 | 530 / 620 | 620    |
| Hand pull at rated load          | [daN]         | 32    | 38        | 34        | 44     |
| Net weight at standart lift (3m) | [kg]          | 20    | 29        | 38        | 71     |



## Yale, manual chain hoist, Yalelift type



### Summery

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### 1. Introduction

In order to make sure that the hoist unit is in a good working order, a complete inspection must be carried out every six months. This inspection is designed to check that the unit is in a proper state and to detect any damage that could bring the unit to a dangerous situation.

This control will concern the following points :

- The brake unit,
- The hoist pulley blocks (if fitted),
- The load chain,
- The hand lever,
- The load hook and the top hook.

This control includes a detailed visual control complemented with a functional control.

**In case of no proper use or if signs of component failure occur, the unit must be brought back to the manufacturer, or to a specialist workshop, that uses original CMCO spare parts.**



## Yale, manual chain hoist, Yalelift type



### DETAILED INSPECTION PROCEDURE OF THE UNIT

#### 2. Inspection of hoist body

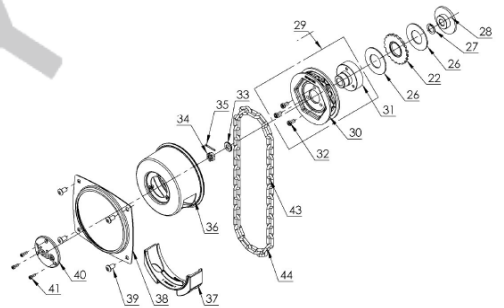
This first step means checking the condition of the braking parts.

- Make sure the brake is not jammed. In case of jammed brake operate handling chain (lowering position) to unjam brake.
- Dismantle handling wheel housing 36.
- Remove handling chain 43 by driving it over the handling wheel.
- Check handling chain condition.
- Remove pin 35.
- Remove nut 34.
- Remove handling wheel 30 by turning it anticlockwise.
- Remove first friction disk 26.

One must check that :

- The disk is not glazed.
- The disk is not spoiled with oil.
- It is better to replace it when controlled (safety measure).
- Remove and check condition of ratchet disk 22. It must show no defect (superficial crack, spoiled teeth...) and its surface must be clean.
- Remove and check second friction disk 26. Same checking as for the first disk.
- Check brake disk 28 condition. It must show no defect (superficial crack) and its surface must be clean.
- Check all pieces good condition.
- Replace all defective parts with CMCO spare parts only.

Note: marks may change according with each hoist type. See attached exploded view to each hoist.



Pict 1 : Yalelift exploded view

Reassemble brake unit : use dismantling reverse order.

Brake adjustment :

- Reassemble handling wheel 30 by turning clockwise until it goes to a stop.
- Turn nut 34 until it comes in touch with handling wheel (position A).
- Unscrew slightly nut 34 in order to put pin 35 in place (Position B).

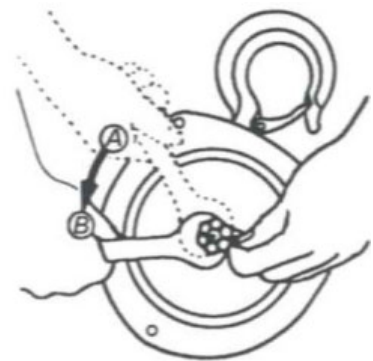


Fig. 2 : brake adjustment



## Yale, manual chain hoist, Yalelift type



### **3. Inspection of load hook bottom block**

(Concerns only 5000kg and 10000kg hoists fitted with bottom blocks)

#### Visual inspection

- Presence of cracks,
- Unusual wears.

### **4. Inspection of hoist hooks**

#### *4.1 Inspection of the unit top hook*

(or inspection of the suspension part, only in case of hoist fitted with a spindle)

#### Visual inspection

- Check that the hook 44 is undamaged :
  - Warpings,
  - Marks of torsion,
  - Abnormal opening,
  - Cracks,
  - Presence of the safety latch 45. Check that the latch is in good condition.

#### *4.2 Inspection of the load hook*

#### Visual inspection

- Check that the hook 44 is undamaged :
  - Warpings,
  - Marks of torsion,
  - Abnormal opening,
  - Cracks,
  - Presence of the safety latch 45. Check that the latch is in good condition..

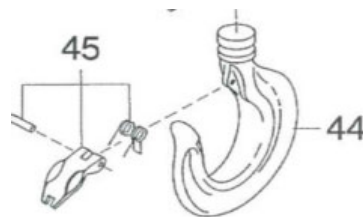


Fig. 3 : checking hook

### **5. Inspection of load body hoist components**

#### Visual inspection

- Presence of cracks
- Unusual wears.



## Yale, manual chain hoist, Yalelift type



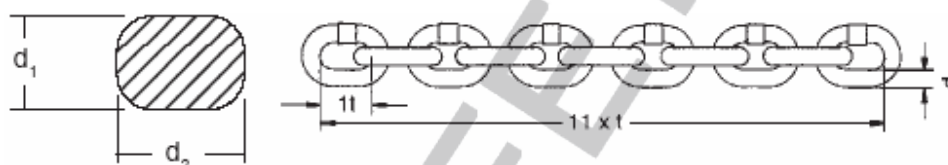
### 6. Inspection of load chain

#### Visual inspection

- Clean chain if necessary (use solvent) before inspection. (Important : never use an hydrogen-based product, **very strong, may damage the chain mecanical characteristics**).
- Release chain and inspect all points of contact between two surfaces in order to detect excessive wears.
- Inspect the whole chain carefully to detect any possible flaw:
  - Slots,
  - Gougings,
  - Welding projections,
  - Corrosion marks,
  - Bended links,
  - Control chain : use below table.



Pict. 4 : wear of a chain



$d$  = Chain nominal thickness

$d_1, d_2$  = Measured value

$$dm = \frac{d_1 + d_2}{2} \leq 0,9 d$$

Pict. 5 : links chain

| Yalelift                    | 2000Kg   | 3000Kg    | 5000Kg    | 10000Kg   |
|-----------------------------|----------|-----------|-----------|-----------|
| Links chain                 | 8 x 24 T | 10 x 30 T | 10 x 30 T | 10 x 30 T |
| Norm. thickness D Norm. mm  | 8        | 10        | 10        | 10        |
| Nominal thickness D Mini mm | 7,70     | 9,60      | 9,60      | 9,60      |
| Inside link t Norm. mm      | 24       | 30        | 30        | 30        |
| Inside link t Max. mm       | 24,30    | 30,35     | 30,35     | 30,35     |
| Lenght Maxi 11 t Norm. mm   | 264      | 330       | 330       | 330       |
| Lenght Maxi 11 t Max. mm    | 264,80   | 331       | 331       | 331       |



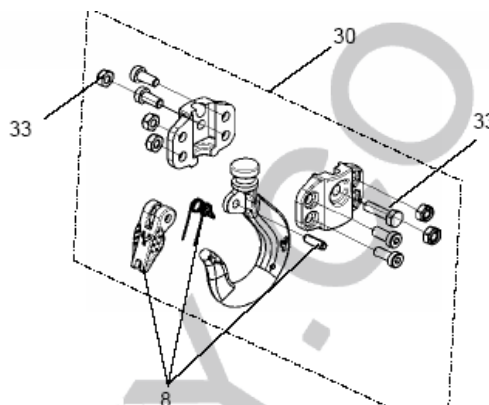
## Yale, manual chain hoist, Yalelift type



### Chain replacement :

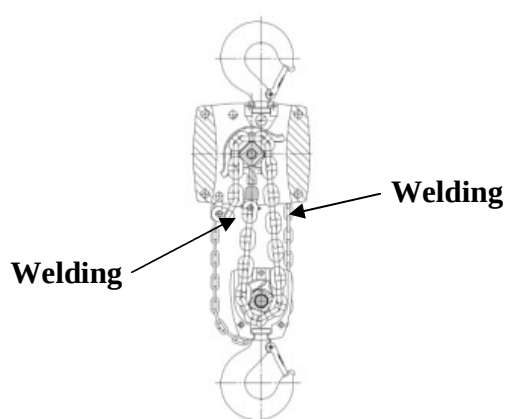
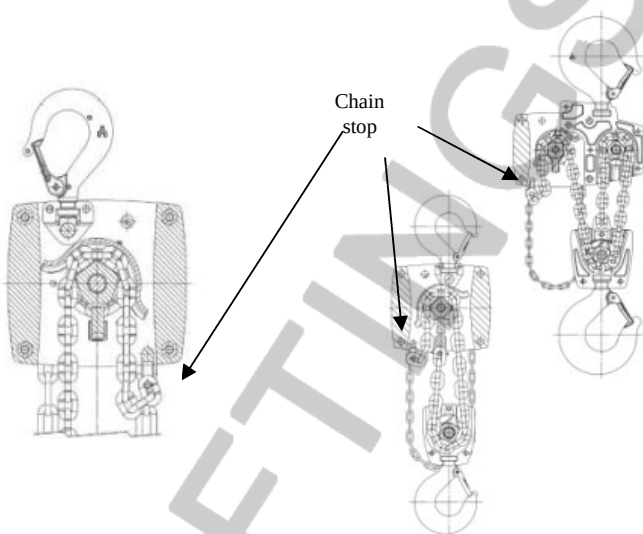
**The load chain must be changed as soon as a defect is to be seen.**

- Dismantling of the load hook :
  - Unscrew chain stops with nuts.
  - Remove chain.
  - Check parts good condition.



Pict. 6 : Dismantling of the hook

- Hook reassembly :
    - Replace defective parts and reassemble parts (use dismantling reverse order).
  - Replacing the chain :
    - Remove stop chain off the in-place chain.
    - Put the new chain in place. Conform to the position of the hook on the right fall. Mind the chain assembly direction.
    - Put the new chain stop in place.
- Important note : The links welding must appear on the external side of the hoist.**
- Concerning hoists fitted with a bottom block : do not twist chain.







## Yale, manual chain hoist, Yalelift type



### **7. Detailed control of the hoist**

Pict 7 : replacement of the chain

See attached exploded view, corresponding to the concerned hoist type (Yalelift 2000 3000 5000kg et 10000kg)

- Open the body of the speed reducer.
- Check all parts, gear wheels, gears, bearings.
- Lubrification : IMPORTANT NOTE : use only high temperature grease.
- **(CMCO recommends: "GLEITMO 805").**
- Reassembly the whole unit by conforming to the order indicated on the related exploded view (see Pict. 1)

### **8. No load unit test**

- Watch carefully that the chain correctly goes on the sheaves.
- The chain must go regularly, in a gentle way, jolt free.

### **9. Running tests**

Test the on load hoist unit.

- Watch carefully whether the chain correctly goes on the load sheave.
- The chain must go regularly, in a gentle way, jolt free.
- Make sure that the identification sheet and the load sheet are well in place.

**IMPORTANT NOTE : to ensure that the hoist remains in safe working order, all control or repairing operations must be carried out by competent persons.**

**Use only original CMCO spare parts.**

**(See annex document : spare parts hand books).**





## ANNEXES

### Annex 1

Blow-up view ratchet lever hoist Yalelift 2000KG

- AEROYL2TM-1B4M
- AEROYL2T-1B6M

### Annex 2

Parts list ratchet lever hoist Yalelift 2000KG

- AEROYL2TM-1B4M
- AEROYL2T-1B6M

### Annex 3

Blow-up view ratchet lever hoist Yalelift 3000KG

- AEROYL3T-1B3M

### Annexe 4

Parts list ratchet lever hoist Yalelift 3000KG

- AEROYL3T-1B3M

### Annex 5

Blow-up view ratchet lever hoist Yalelift 5000KG

- AEROYL5TMM-2B4M

### Annex 6

Parts list ratchet lever hoist Yalelift 5000KG

- AEROYL5TMM-2B4M

### Annex 7

Blow-up view ratchet lever hoist Yalelift 10000KG

- AEROYL10T-3B6M

### Annex 8

Parts list ratchet lever hoist Yalelift 10000KG

- AEROYL10T-3B6M

### Annex 9

Representative list yale in the word.

Yalelift Exploded view

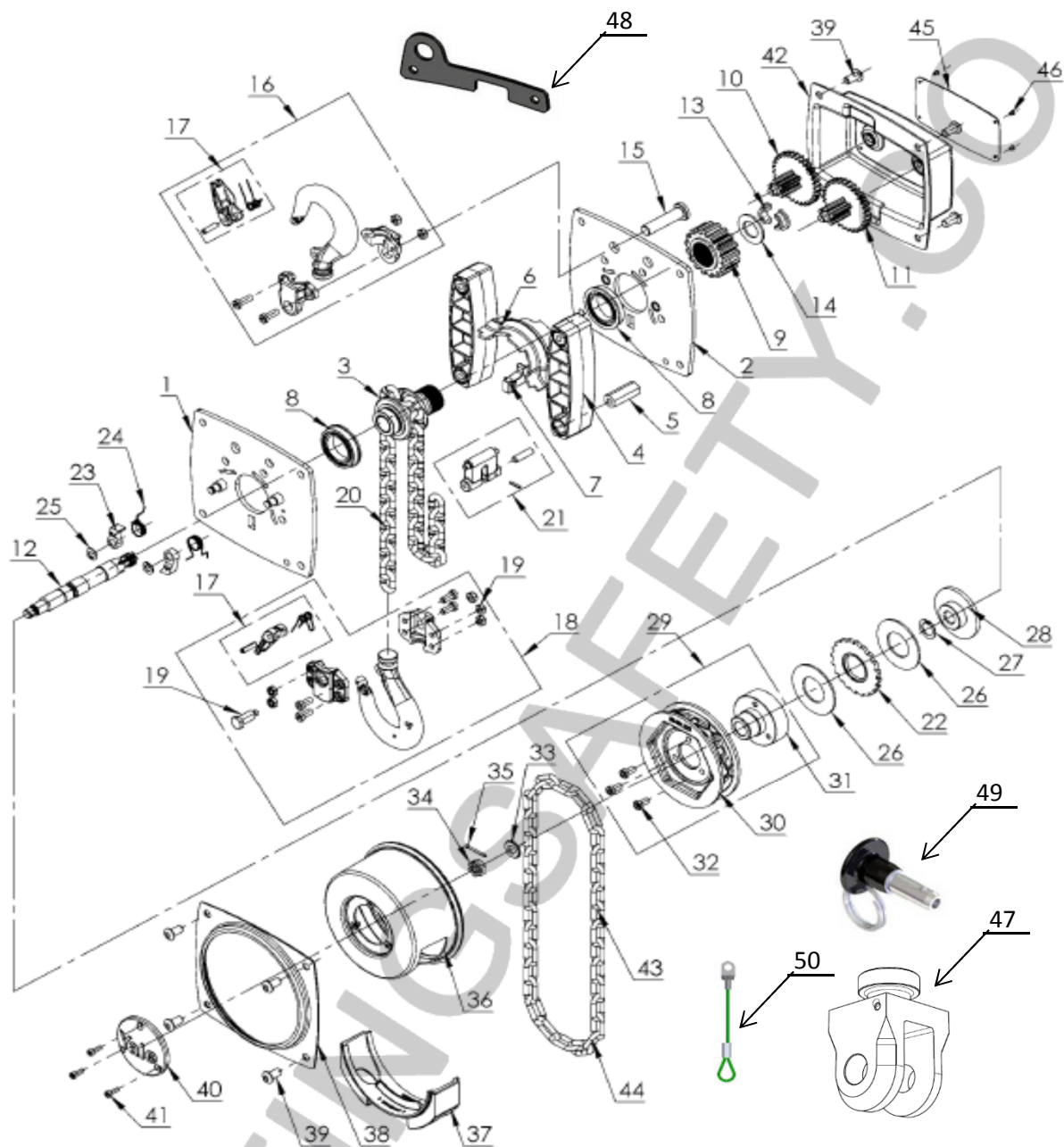
Reference :

Yalelift 2T 1 chain fall

Yalelift 2T 1 chain fall

**AEROYL2T-1B6M**

**AEROYL2TM-1B4M**



## Yalelift 2000KG 1 Brin

Référence : **AEROYL2T-1B6M**

Référence : **AEROYL2TM-1B4M**

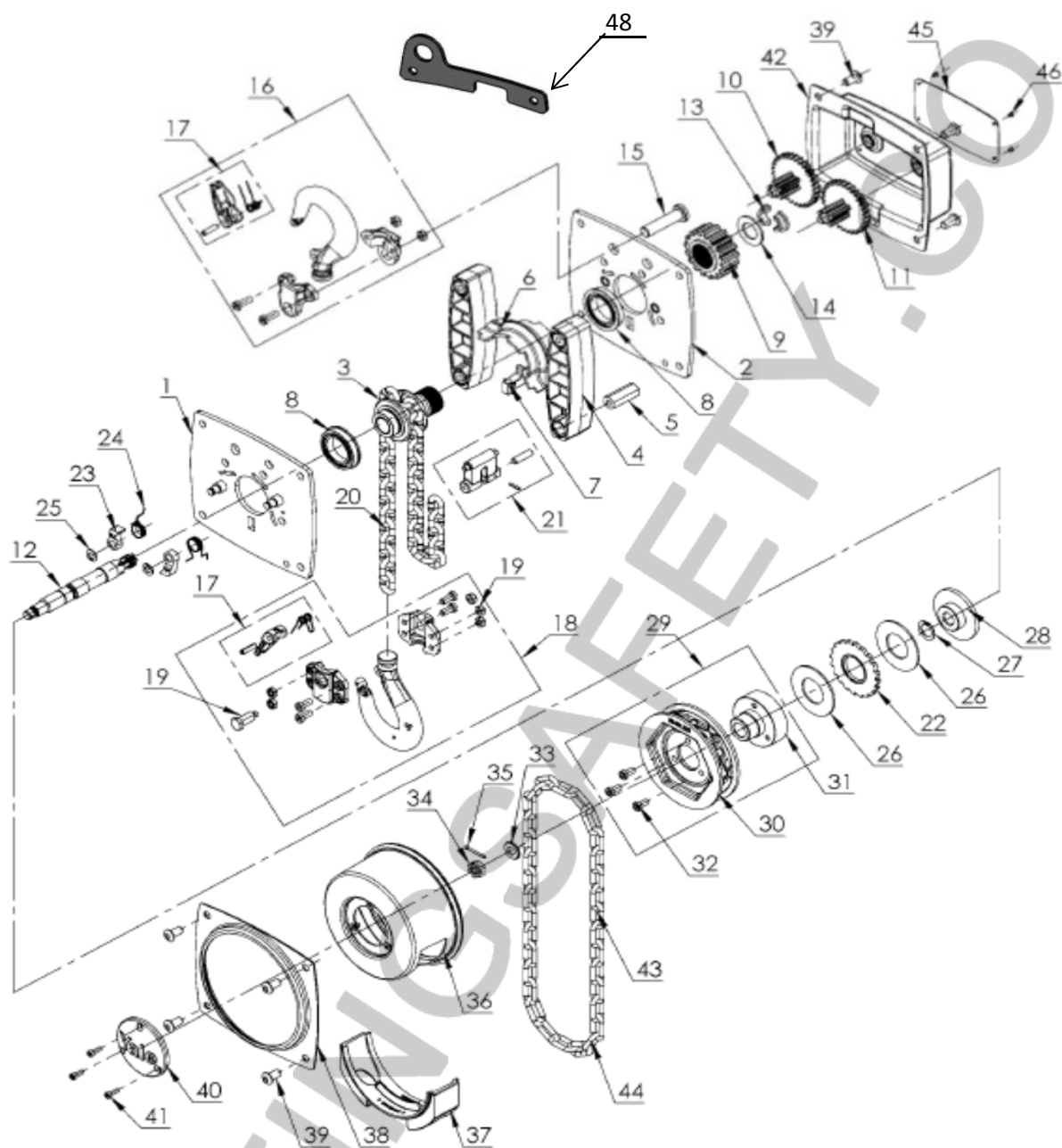
| POS | REFERENCE | DESIGNATION               | Qté  |
|-----|-----------|---------------------------|------|
| 1   | 401246    | Side Plate, assy. (left)  | 1    |
| 2   | 400300    | Side Plate, assy. (right) | 1    |
| 3   | 401250    | Load Sheave, assy.        | 1    |
| 4   | 400305    | End cover                 | 2    |
| 5   | 400269    | Distance bolt             | 4    |
| 6   | 400287    | Chain Guide               | 1    |
| 7   | 400280    | Stripper                  | 1    |
| 8   | 9151109   | Bearing                   | 2    |
| 9   | 400278    | Gear Z4                   | 1    |
| 10  | *00400298 | Gear A, assy.             | 1/2* |
| 11  | ---       | Gear B, assy.             | 1    |
| 12  | 401245    | Drive Pinion              | 1    |
| 13  | 401242    | Locating ring             | 2    |
| 14  | 401243    | Washer                    | 1    |
| 15  | 400307    | Suspension Bolt           | 1    |
| 16  | 400281    | upper Hook, assy          | 1    |
| 17  | 400451    | Safety Latch Kit          | 2    |
| 18  | 400309    | Bottom Block, assy.       | 1    |
| 19  | 400436    | Chain Bolt with Nut       | 1    |
| 20  | 4307642   | Load Chain                | 1    |
| 21  | 400294    | Chain End Stop, assy.     | 1    |
| 22  | 401315    | Ratchet Disc, assy.       | 1    |
| 23  | 401239    | Pawl                      | 2    |
| 24  | 401241    | Spring                    | 2    |
| 25  | 9129042   | Retaining Ring            | 2    |
| 26  | 400462    | Friction Disc             | 2    |
| 27  | 9129008   | Retaining Ring            | 1    |
| 28  | 401238    | Disc Hub                  | 1    |
| 29  | 401348    | Hand Chain Wheel, assy.   | 1    |
| 30  | 401347    | Hand Chain Wheel          | 1    |
| 31  | 401346    | Hub                       | 1    |
| 32  | 9102197   | Screw                     | 3    |
| 33  | 9121006   | Washer                    | 1    |
| 34  | 9117058   | Castle Nut                | 1    |
| 35  | 9125069   | Cotter Pin                | 1    |
| 36  | 401344    | Hand Chain Wheel Cover    | 1    |
| 37  | 400301    | Hand Chain Guide          | 1    |
| 38  | 400304    | Supporting plate          | 1    |
| 39  | 400438    | Screw                     | 8    |
| 40  | 401331    | Cap                       | 1    |
| 41  | 9102219   | Screw                     | 3    |
| 42  | 400855    | Gear cover, assy.         | 1    |
| 43  | 4307654   | Hand Chain                | 1    |
| 44  | 404733    | Connecting link           | 1    |
| 45  | 400542    | Name Plate                | 1    |
| 46  | 9128008   | Grooved Nail              | 4    |
| 47  | 00401533  | End fitting               | 1    |
| 48  | 00401535  | Support                   | 1    |
| 49  | 00610168  | Quick Release PIN         | 1    |
| 50  | 00610167  | Wire rope w. hook         | 1    |

Yalelift Exploded view

Reference :

Yalelift 3T 1 chain fall

**AEROYL3T-1B3M**



## Yalelift 3000KG 1 Brin

Référence : **AEROYL3T-1B3M**

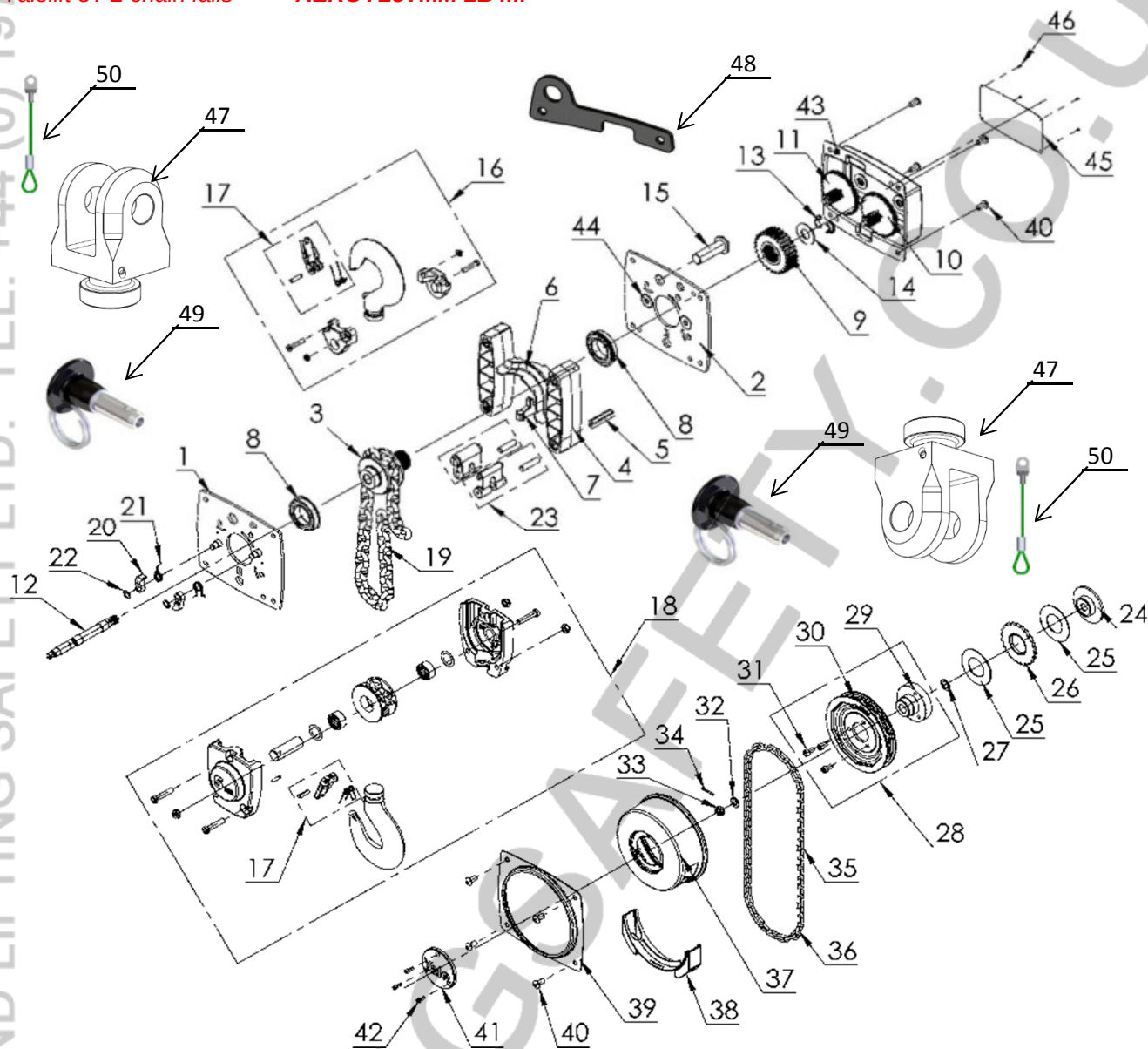
| POS | REFERENCE | DESIGNATION               | Qté |
|-----|-----------|---------------------------|-----|
| 1   | 401259    | Side Plate, assy. (left)  | 1   |
| 2   | 400454    | Side Plate, assy. (right) | 1   |
| 3   | 401266    | Load Sheave, assy.        | 1   |
| 4   | 400472    | End cover                 | 2   |
| 5   | 400471    | Distance bolt             | 4   |
| 6   | 400453    | Chain Guide               | 1   |
| 7   | 400465    | Stripper                  | 1   |
| 8   | 9151121   | Bearing                   | 2   |
| 9   | 400456    | Gear Z4                   | 1   |
| 10  | 400475    | Gear A, assy.             | 1   |
| 11  | 400476    | Gear B, assy.             | 1   |
| 12  | 401260    | Drive Pinion              | 1   |
| 13  | 401261    | Locating ring             | 2   |
| 14  | 401255    | Washer                    | 1   |
| 15  | 400482    | Suspension Bolt           | 1   |
| 16  | 400478    | upper Hook, assy          | 1   |
| 17  | 400647    | Safety Latch Kit          | 2   |
| 18  | 400480    | Bottom Block, assy.       | 1   |
| 19  | 400828    | Chain Bolt with Nut       | 1   |
| 20  | 4307647   | Load Chain                | 1   |
| 21  | 400481    | Chain End Stop, assy.     | 1   |
| 22  | 401313    | Ratchet Disc, assy.       | 1   |
| 23  | 401252    | Pawl                      | 2   |
| 24  | 401264    | Spring                    | 2   |
| 25  | 9129038   | Retaining Ring            | 2   |
| 26  | 404732    | Friction Disc             | 2   |
| 27  | 9129024   | Retaining Ring            | 1   |
| 28  | 401267    | Disc Hub                  | 1   |
| 29  | 401357    | Hand Chain Wheel, assy.   | 1   |
| 30  | 401352    | Hand Chain Wheel          | 1   |
| 31  | 401351    | Hub                       | 1   |
| 32  | 9102197   | Screw                     | 3   |
| 33  | 9121010   | Washer                    | 1   |
| 34  | 9117057   | Castle Nut                | 1   |
| 35  | 9125042   | Cotter Pin                | 1   |
| 36  | 401349    | Hand Chain Wheel Cover    | 1   |
| 37  | 400468    | Hand Chain Guide          | 1   |
| 38  | 400470    | Supporting plate          | 1   |
| 39  | 400649    | Screw                     | 8   |
| 40  | 401338    | Cap                       | 1   |
| 41  | 9102199   | Screw                     | 3   |
| 42  | 400489    | Gear cover, assy.         | 1   |
| 43  | 4307654   | Hand Chain                | 1   |
| 44  | 404733    | Connecting link           | 1   |
| 45  | 400543    | Name Plate                | 1   |
| 46  | 9128008   | Grooved Nail              | 4   |
| 48  | 00401593  | Anneau support            | 1   |

Yalelift Exploded view

Reference :

Yalelift 5T 2 chain falls

**AEROYL5TMM-2B4M**





## Yalelift 5000KG 2 Brins

Référence : **AEROYL5TMM-2B4M**

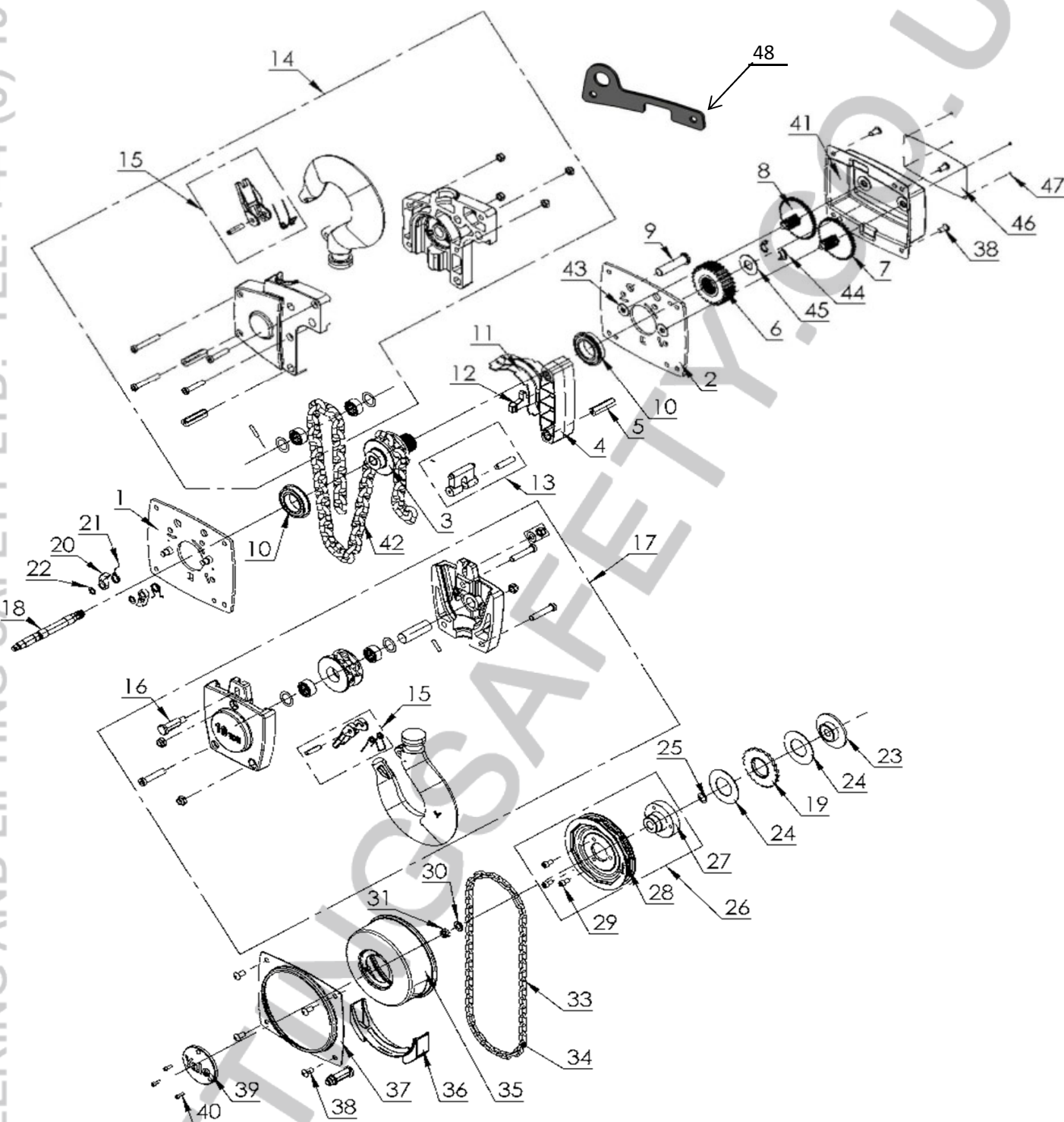
| POS | REFERENCE | DESIGNATION                  | Qté |
|-----|-----------|------------------------------|-----|
| 1   | 401270    | Side Plate, assy. (left)     | 1   |
| 2   | 400502    | Side Plate, assy. (right)    | 1   |
| 3   | 401266    | Load Sheave, assy.           | 1   |
| 4   | 400472    | End cover                    | 2   |
| 5   | 400471    | Distance bolt                | 4   |
| 6   | 400453    | Chain Guide                  | 1   |
| 7   | 400465    | Stripper                     | 1   |
| 8   | 9151121   | Bearing                      | 2   |
| 9   | 400456    | Gear Z4                      | 1   |
| 10  | 400475    | Gear A, assy.                | 1   |
| 11  | 400476    | Gear B, assy.                | 1   |
| 12  | 401260    | Drive Pinion                 | 1   |
| 13  | 401261    | Locating ring                | 2   |
| 14  | 401255    | Washer                       | 1   |
| 15  | 400514    | Suspension Bolt              | 1   |
| 16  | 400512    | upper Hook, assy             | 1   |
| 17  | 400955    | Safety Latch Kit             | 2   |
| 18  | 400499    | Bottom Block, assy.          | 1   |
| 19  | 4307647   | Load Chain                   | 1   |
| 20  | 401252    | Pawl                         | 2   |
| 21  | 401264    | Spring                       | 2   |
| 22  | 9129038   | Retaining Ring               | 2   |
| 23  | 400481    | Chain End Stop, assy.        | 2   |
| 24  | 401267    | Disc Hub                     | 1   |
| 25  | 404732    | Friction Disc                | 2   |
| 26  | 401313    | Ratchet Disc, assy.          | 1   |
| 27  | 9129038   | Retaining Ring               | 1   |
| 28  | 401357    | Hand Chain Wheel, assy.      | 1   |
| 29  | 401351    | Hub                          | 1   |
| 30  | 401352    | Hand Chain Wheel             | 1   |
| 31  | 9102199   | Screw                        | 3   |
| 32  | 9121010   | Washer                       | 1   |
| 33  | 9117057   | Castle Nut                   | 1   |
| 34  | 9125042   | Cotter Pin                   | 1   |
| 35  | 4307654   | Hand Chain                   | 1   |
| 36  | 404733    | Connecting link              | 1   |
| 37  | 401349    | Hand Chain Wheel Cover       | 1   |
| 38  | 400468    | Hand Chain Guide             | 1   |
| 39  | 400470    | Supporting plate             | 1   |
| 40  | 400649    | Screw                        | 8   |
| 41  | 401338    | Cap                          | 1   |
| 42  | 9102199   | Screw                        | 3   |
| 43  | 400489    | Gear cover, assy.            | 1   |
| 44  | 400756    | Roller Set                   | 1   |
| 45  | 400544    | Name Plate                   | 1   |
| 46  | 9128008   | Grooved Nail                 | 4   |
| 47  | 00401471  | Chape                        | 2   |
| 48  | 00401501  | Support w. anti twist device | 1   |
| 49  | 00610168  | Quick Release PIN            | 2   |
| 50  | 00610167  | Wire rope w. hook            | 2   |

Yalelift Exploded view

Reference :

Yalelift 10T 3 chain falls

**AEROYL10T-3B6M**



## Yalelift 10000KG 3 Brins

Référence : **AEROYL10T-3B6M**

| POS | REFERENCE | DESIGNATION               | Qté |
|-----|-----------|---------------------------|-----|
| 1   | 401259    | Side Plate, assy. (left)  | 1   |
| 2   | 400454    | Side Plate, assy. (right) | 1   |
| 3   | 401266    | Load Sheave, assy.        | 1   |
| 4   | 400472    | End cover                 | 1   |
| 5   | 400471    | Distance bolt             | 2   |
| 6   | 400456    | Gear Z4                   | 1   |
| 7   | 400475    | Gear A, assy.             | 1   |
| 8   | 400476    | Gear B, assy.             | 1   |
| 9   | 400482    | Suspension Bolt           | 1   |
| 10  | 9151121   | Bearing                   | 2   |
| 11  | 400453    | Chain Guide               | 1   |
| 12  | 400465    | Stripper                  | 1   |
| 13  | 400481    | Chain End Stop, assy.     | 1   |
| 14  | 400524    | upper Hook, assy          | 1   |
| 15  | 400958    | Safety Latch Kit          | 2   |
| 16  | 400961    | Chain Bolt, assy.         | 1   |
| 17  | 400517    | Bottom Block, assy.       | 1   |
| 18  | 401260    | Drive Pinion              | 1   |
| 19  | 401313    | Ratchet Disc, assy.       | 1   |
| 20  | 401252    | Pawl                      | 2   |
| 21  | 401264    | Spring                    | 2   |
| 22  | 9129038   | Retaining Ring            | 1   |
| 23  | 401267    | Disc Hub                  | 1   |
| 24  | 404732    | Friction Disc             | 2   |
| 25  | 9129038   | Retaining Ring            | 1   |
| 26  | 401357    | Hand Chain Wheel, assy.   | 1   |
| 27  | 401351    | Hub                       | 1   |
| 28  | 401352    | Hand Chain Wheel          | 1   |
| 29  | 9102199   | Screw                     | 3   |
| 30  | 9121010   | Washer                    | 1   |
| 31  | 9117057   | Castle Nut                | 1   |
| 32  | 9125042   | Cotter Pin                | 1   |
| 33  | 4307654   | Hand Chain                | 1   |
| 34  | 404733    | Connecting link           | 1   |
| 35  | 401349    | Hand Chain Wheel Cover    | 1   |
| 36  | 400468    | Hand Chain Guide          | 1   |
| 37  | 400470    | Supporting plate          | 1   |
| 38  | 400649    | Screw                     | 8   |
| 39  | 401338    | Cap                       | 1   |
| 40  | 9102199   | Screw                     | 3   |
| 41  | 400489    | Gear cover, assy.         | 1   |
| 42  | 4300013   | Load Chain                | 1   |
| 43  | 400756    | Roller Set                | 1   |
| 44  | 401261    | Locating ring             | 2   |
| 45  | 401255    | Washer                    | 1   |
| 46  | 400545    | Name Plate                | 1   |
| 47  | 401261    | Grooved Nail              | 4   |
| 48  | 00401593  | Support                   | 1   |

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