

# Original operating manual

Version: 01



## Reel drive 4

00395\_Reel drive 4, 3x400V 50Hz  
10001118\_Reel drive 4, 1x230V 50Hz



## Prüfzertifikat

Wir bestätigen, dass die genannte Maschine geprüft wurde und den Auftragsanforderungen, Spezifikationen, Zeichnungen sowie gültigen Normen und Vorschriften in jeder Hinsicht entspricht.

Haspelantrieb 4

## Certificat d'inspection

Nous déclarons que le produit faisant l'objet du certificat a été contrôlé et est conforme aux exigences de la commande, aux spécifications, aux dessins ainsi qu'aux normes et prescriptions en vigueur à tout point de vue.

Bobineuse motorisé 4

## Test certificate

We hereby confirm that the machine described below was tested and satisfies the requirements posed in the order, specifications, drawings as well as the relevant valid standards and regulations in all respects.

Reel drive 4

Geräte Nr. / N° de la machine / Machine no.: .....

Art. Nr./ N° art./ Art. no.: .....

Motor-Nr. / N° du moteur / Motor no.: .....

Datum/Date/Date: .....

Unterschrift/Visa/Visa: .....

## Content

|     |                                                   |    |
|-----|---------------------------------------------------|----|
| 1   | General description .....                         | 6  |
| 1.1 | Drive .....                                       | 6  |
| 1.2 | Friction clutch .....                             | 6  |
| 2   | Design and function .....                         | 7  |
| 3   | Safety instructions.....                          | 8  |
| 3.1 | Intended use.....                                 | 8  |
| 3.2 | Safety information in this operation manual ..... | 8  |
| 3.3 | General safety information .....                  | 9  |
| 3.4 | Authorized operators .....                        | 9  |
| 3.5 | Warranty and liability .....                      | 9  |
| 3.6 | Behavior in an emergency situation .....          | 9  |
| 4   | Technical specifications.....                     | 10 |
| 5   | Operation .....                                   | 11 |
| 5.1 | Preparation.....                                  | 11 |
| 5.2 | Operation .....                                   | 11 |
| 5.3 | Pulling out rope .....                            | 11 |
| 6   | Faults .....                                      | 11 |
| 7   | Maintenance .....                                 | 12 |
| 8   | Spare parts .....                                 | 12 |
| 9   | Disposal .....                                    | 12 |

## Warranty and liability

Habegger warrants the replacement as well as installation and removal of parts which have become demonstrably unusable as a result of material or manufacturing defects.

The warranty period (guarantee term) is 12 months.

Warranty and liability claims for injury to persons or damage property are excluded if they are due to one or more of the following:

- use of the reel drive other than intended use;
- improper operation and maintenance of the reel drive;
- Failure to comply with the information in the operation manual regarding operation and maintenance of the reel drive;
- independent modifications to the reel drive;
- poor monitoring of machine parts which are subject to wear;
- repairs carried out improperly;
- Catastrophic failures due to foreign objects and force majeure;
- The use of third party spare parts, if these are not designed and manufactured according to the loading or safety requirements.
- We recommend that you only use HABEGGER spare parts.

## Preface

You made a good choice when you selected the HABEGGER reel drive 4. This reel drive allows you to wind up untensioned ropes. Operation and maintenance are very simple and with correct handling ensure trouble-free and reliable operation. It may be that you already know how your recently purchased reel drive functions.

However, at HABEGGER we recommend:

Read this operating manual carefully before first commissioning! It contains all essential information you require for the reel drive.

Important information in the operation manual help you:

- To avoid hazards,
- to keep repair costs and downtimes to a minimum and
- to increase the reliability and service life of your reel drive.

Always keep this operation manual at the place where the reel drive is used, and make sure that anyone who uses it reads and applies the information in the manual. It must be available for all operation personnel, to avoid errors during handling. As well as the operating manual and the locally applicable accident prevention regulations, the recognized specialist rules for safe and proper working must be complied with.

We wish you every success and enjoyment using your product from HABEGGER.

## EC declaration of conformity



We

HABEGGER Maschinenfabrik AG Thun  
Mittlere Strasse 66  
CH-3600 Thun

hereby declare that the

### Reel drive 4

conforms to the health and safety requirements of the EC Machinery Directives in its conception and design, as well as in the version placed on the market by us.

In the event of improper use, as well as modifications or changes which are unauthorised by us, this statement loses its validity.

This declaration of conformity also loses its validity if the relevant user guide and maintenance manual are not followed or are violated.

Applicable EC Directive:

**EC Machinery Directive 2006/42/EC**

Applicable harmonized standards:

**EN ISO 12100: 2011-01**

Place:

Thun

Date:

1. April 2020

**Head of Engineering**

Thomas Gerber

**CEO**

Urs Schneider

## 1 General description

The reel drive 4 is designed to wind up the untensioned rope exiting from the HIT-TRAC motorized rope pulling machine. The reel drive does not have a winding device. This means that the winding process must be observed and corrected if required.

The complete reel drive stands on two wheels and a support. It can be moved by the drawbar like a trailer. To do so, the drawbar can be swiveled outwards after pulling out the locking fixture. When not used, the drawbar can be swiveled in. Using the lifting eye, the reel drive can be lifted with a lifting device. Naturally, other ropes can also be wound up.

### 1.1 Drive

Drive is provided using an electric motor via gears and chains.

The motor acts on the reel like an infinitely long spring. If the resistance on the rope becomes greater than the spring force (motor), the reel stops.

### 1.2 Friction clutch

A friction clutch connects the reel with the drive and prevents unwanted rolling back of the reel.

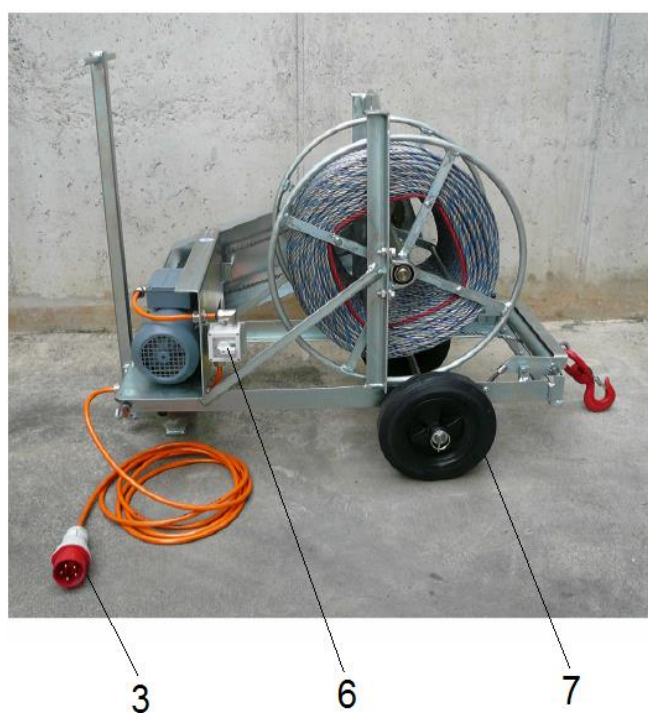
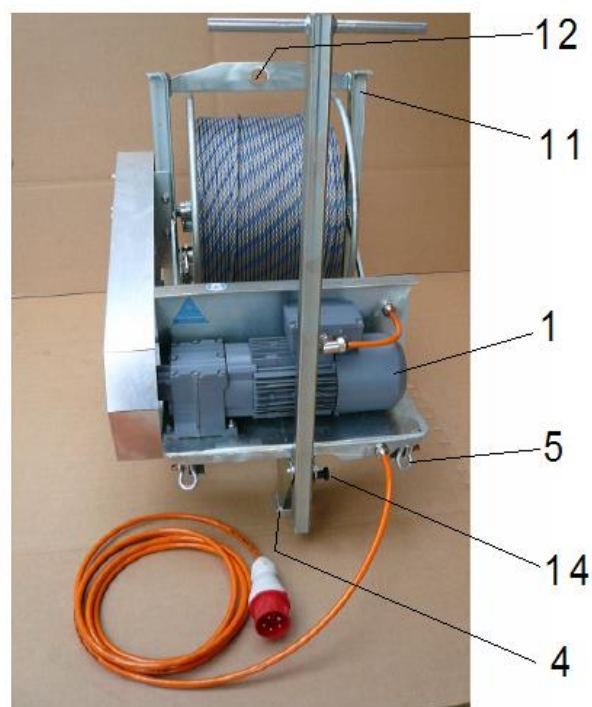
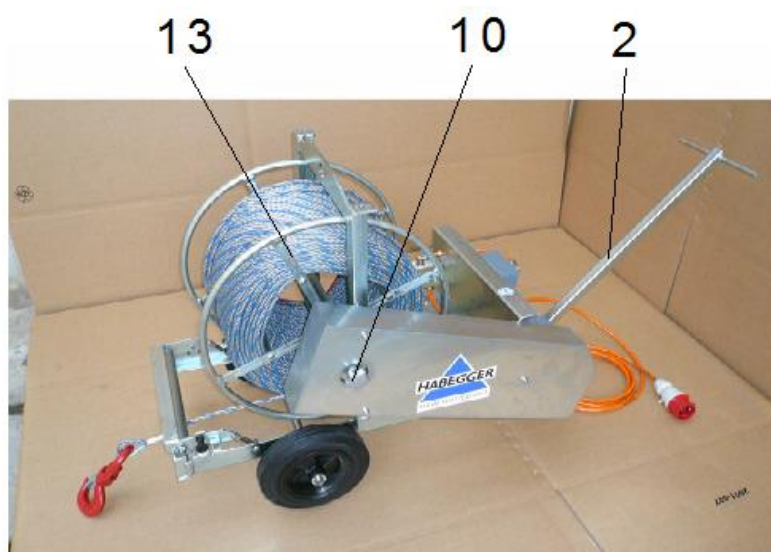
The friction clutch acts as a spring-loaded brake when rope is pulled out. When doing so, the reel is turned against the brake resistance. This prevents the reel running on once the pulling out procedure is stopped. The braking force can be reduced with the star handle.

For special applications, a longer control cable or a radio control can be attached. Within these applications, the rope pulling device must be monitored particularly when tensioning and lowering. Entry and exit of the idle rope must be ensured.

## 2 Design and function

- 1 Gear motor
- 2 Drawbar
- 3 Plug
- 4 Support foot
- 5 Shackle for attachment
- 6 Switch
- 7 Wheel
- 8 Bolt for cap

- 9 Flap for rope guidance (open)
- 10 Star handle
- 11 Bar supports
- 12 Eye supports
- 13 Reel with rope
- 14 Drawbar lock
- 15 Rope guide



### 3 Safety instructions



The HABEGGER Reel drive 4 conforms to the current state of the art. Due to its function, it has an open design.

To protect against accidents, it is equipped with effective safety devices according to the recognized technical safety standards, guidelines and laws.

However: Laws, regulations and safety devices do not offer protection against carelessness and negligence!

Only use the reel drive in perfect condition, complying with the operation manual.

Before you work with the reel drive, you must carefully read and comply with the safety information below.

**This is for your safety!**

#### 3.1 Intended use

The reel drive is designed to wind up ropes.

#### 3.2 Safety information in this operation manual

For hazards, notes and important information, the following symbols and descriptions are used:



- Notices are particularly important information which you must comply with when operating the equipment for its intended use



- Caution! Note indicates hazard for the machine, machine parts and the environment.



- Danger! Note referring to hazards to health and the life of the operator and other persons.

### 3.3 General safety information

#### Location

- When working always make sure you have a firm and safe location to stand in.
- Always stand outside the hazard area of moving parts.
- You need sufficient room to move. Therefore, make sure you have a sufficiently large area to stand in.
- Do not use ladders as a standing area.
- If your location is unsuitable: Install deflection roller and select a better location.



- When installing the machine take care that no external hazards can act on the reel drive, the traction rope, the load and the operator personnel. (e.g. falling objects, passing vehicles, electrical overhead lines, and so on)

#### Operation

The reel only rotates slowly and with limited force. Nevertheless, make sure that nothing enters the open spokes.



- Danger! Do not stand in the hazard area of loads, deflection rollers and ropes!
- Do not reach into rotating parts. Risk of injury.



- Caution! As soon as the red end of the rope emerges: Stop the machine immediately.

### 3.4 Authorized operators

The reel drive 4 must only be used by a specialist person who is authorized. As the operating company for the reel drive, make sure that the operation manual is made accessible to the operator and ensure that they have read and understood it.

### 3.5 Warranty and liability

Warranty and liability claims for injury to persons or damage property are excluded if they are due to one or more of the following.

### 3.6 Behavior in an emergency situation

Before starting work, always inform yourself whether and where there is mobile phone reception or where a traditional telephone is available. Check the availability of a first-aid box.

## 4 Technical specifications

|                                     |                                                                                     |
|-------------------------------------|-------------------------------------------------------------------------------------|
| Pulling force:                      | approx. 20 kg                                                                       |
| Winding speed                       | 0 – 10 m/min                                                                        |
| Rope capacity                       | Rope Ø8.2 mm 600 m<br>Rope Ø11.2 mm 300 m<br>Rope Ø16 mm 200 m<br>Rope Ø20 mm 100 m |
| Dimensions Width / Length / Height: | 592 mm / 831 mm / 940 mm                                                            |
| Own weight                          | 70 kg                                                                               |
| Drive motor 3x400V:                 | Three-phase gear motor<br>SEW R17MT80N8/BMG/HF<br>0.2 A, 50 Hz, IP 54               |
| Transmission oil                    | 0.25L, CLP 220                                                                      |
| Power plug                          | CEE 16 16A (3xL+N+PE)                                                               |
| Drive motor 1x230V:                 | Gear motor<br>PAE 180M2<br>0.68 A, 50 Hz, IP 65                                     |
| Power plug                          | T12 (1xL+N+PE)                                                                      |

## 5 Operation

### 5.1 Preparation

Set up and attach reel drive approx. 6.5 m from the fixed point of the rope at a right angle to it. The attachment does not need to withstand large forces, however it must ensure that the reel drive is not pulled against the machine on smooth bases.

If the distance to the fixed point cannot be maintained, the rope is only wound onto the reel at one point. This means achieving an even distribution of the rope on the reel must be done using additional measures such as e.g. moving the rope with a piece of wood.

### 5.2 Operation

The rope must be pulled out actively, i.e. with a machine or manually.

As soon as the motor is switched on, the reel drive winds up the rope again, until the rope resistance becomes greater than the pulling force of the reel. This pulling force depends on the amount of rope wound on the reel. With longer lengths of rope, meaning a larger diameter of the reel, it reduces.

The motor can remain switched on throughout. This means the rope is either pulled off or wound up depending on the force acting on the rope.

Observe winding process and watch out for the end of the rope!

### 5.3 Pulling out rope

With the motor switched off, the rope can be pulled out by hand. When doing so, if the resistance is too high, the braking resistance can be reduced by undoing the star handle (turn anticlockwise). Only turn star handle to the stop.

To wind up, the star handle must be screwed in fully once more.

## 6 Faults

| Faults                                                                          | Possible cause                        | Measures                                    |
|---------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------|
| Reel does not turn, once the motor is switched on and the rope is not tensioned | No power                              | Check supply cable and fuse                 |
|                                                                                 | Motor rotation direction incorrect    | Change phases (possibly on extension cable) |
|                                                                                 | Friction clutch (brake) undone        | Screw in star handle                        |
|                                                                                 | Friction clutch (brake) set too loose | Have friction clutch readjusted             |
|                                                                                 | Rope jammed                           | Release rope                                |
| Pulling off rope too hard                                                       | Friction clutch (brake) set too tight | Have friction clutch readjusted             |

## 7 Maintenance

The following items of inspection and maintenance work must be carried out:

| Work                           | At the start of work | As required | Comments      |
|--------------------------------|----------------------|-------------|---------------|
| General visual inspection:     | X                    |             |               |
| Lubricate shaft bearing points |                      | X           |               |
| Replace gear oil               |                      |             | every 3 years |

## 8 Spare parts

The spare parts are provided on a separate list. This can be requested from HABEGGER.

## 9 Disposal

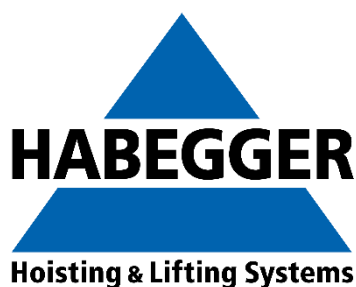
Please comply with the local regulations on disposal.

Fully drain your gearbox of oil.

Please dispose of even the smallest quantities of oil properly or bring them to a responsible location.

When dismantling, separate material types as far as possible, to allow recycling: Keep metal and plastic parts separate and send for recycling.

Please bear in mind that protecting the environment and re-use of materials benefits everybody.



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