



## ***CableTrac-Rope Pullers***

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**Type 808 - Capacity (WLL) 800 daN**

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**Type 816 - Capacity (WLL) 1600 daN**

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**Type 832 - Capacity (WLL) 3200 daN**

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**Translated  
version of the  
original-  
operating  
instructions**

**WADRA**

Vom Hofe Group

# **CableTrac-Rope Puller Type 808 / 816 / 832**

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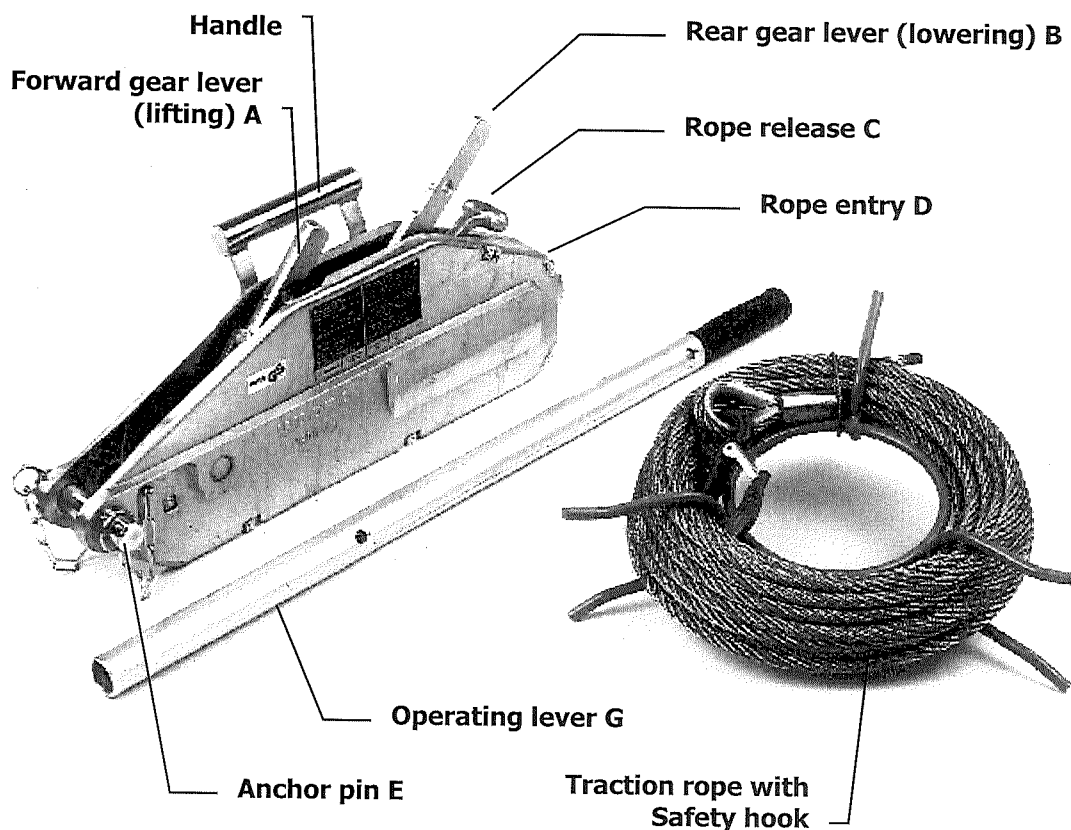
These Operating Instructions must be studied carefully prior to first operation. They shall facilitate to understand the machine and maintain an appropriate knowledge about its regular operation. These instructions contain important information to operate the machines in a safe, proper and economic manner. Their utilisation helps to avoid risks, damages and down-time and to increase the reliability and the lifetime of the machine. These instructions must always be kept with the machine. They must be read and used by any person using the machine for operation, trouble-shooting, maintenance and transport.

Besides these instructions and the local workplace safety and health instructions the accepted rules for a safe and efficient operation are binding.

## 1. PRODUCT AND FUNCTIONAL DESCRIPTION

### 1.1 Description *CableTrac*

- WADRA-*CableTracs* Type 808, 816 and 832 are used for pulling, lifting, lowering, tensioning and securing of cargo.
- Two pairs of parallel clamps that can be operated via a forward gear lever and a rear gear lever, pull the load with the traction rope in the required direction and secure the traction rope during standstills. This will avoid a relief of the traction rope and of the load.
- A shear pin located in the forward gear lever shears off at an overload of approx. 25%. In addition the operating lever tube is designed to bend at its plug end at an overload of approx. 50%. The shear pin can be replaced under full load i.e. without the machine being relieved of the load.



# CableTrac-Rope Puller Type 808 / 816 / 832

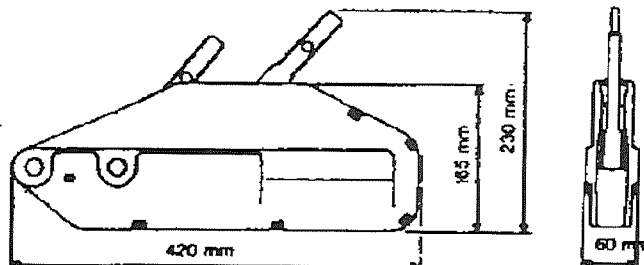
## 1.2 Technical data

### Type 808

**Lifting capacity 800 daN**

**Technical data:**

Lifting capacity .....	800	daN
Operating energy .....	24	kg
Advance per double stroke, unloaded .....	63	mm
at nominal load .....	55	mm
Rope diameter .....	8,4	mm
Weight without rope .....	6	kg

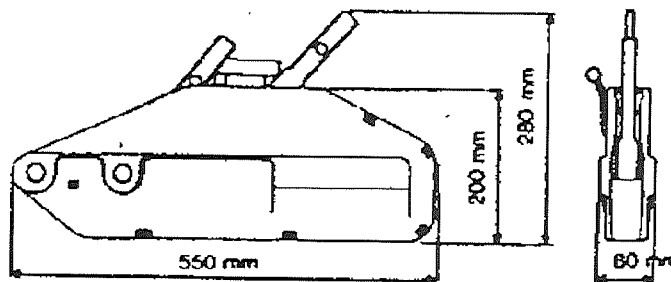


### Type 816

**Lifting capacity 1600 daN**

**Technical data:**

Lifting capacity .....	1600	daN
Operating energy .....	30	kg
Advance per double stroke, unloaded .....	60	mm
at nominal load .....	54	mm
Rope diameter .....	11,5	mm
Weight without rope .....	11	kg

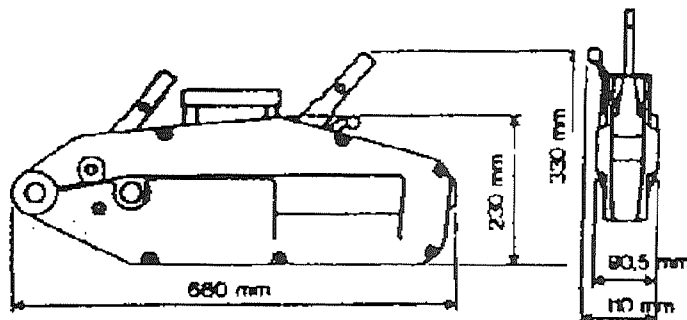


### Type 832

**Lifting capacity 3200 daN**

**Technical data:**

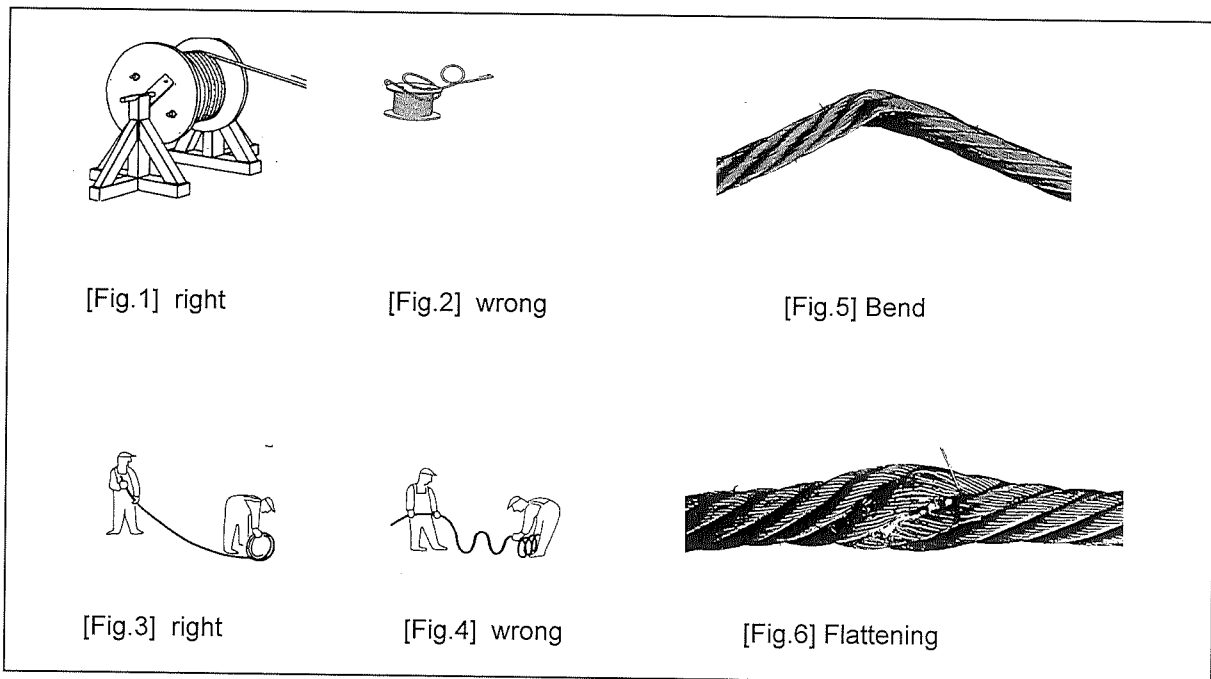
Lifting capacity .....	3200	daN
Operating energy .....	50	kg
Advance per double stroke, unloaded .....	40	mm
at nominal load .....	34	mm
Rope diameter .....	16,0	mm
Weight without rope .....	21	kg



**1.3 Description Traction Rope**

<p><b><u>Traction Rope Ø 8.4 mm similar EN 12385-4 with steel-core</u></b></p> <p>Surface: <b>galvanized</b>                  Calc. breaking force: <b>56 kN</b>                  Min. breaking force: <b>45 kN</b>                  Steel wire: <b>EN 10264-2</b>                  Press connection: <b>EN13411-3 type A</b>                  Wadra-Safety hook: <b>0.8 to, grade 8, red</b></p>		<p>Rope</p> <p>Ferrule</p> <p>Thimble</p> <p>Wadra-Safety hook</p>
<p><b><u>Traction Rope Ø 11.5 mm similar EN 12385-4 with steel-core</u></b></p> <p>Surface: <b>galvanized</b>                  Calc. breaking force: <b>109 kN</b>                  Min. breaking force: <b>87 kN</b>                  Steel wire: <b>EN 10264-2</b>                  Press connection: <b>EN 13411-3 type A</b>                  Wadra-Safety hook: <b>1.6 to, grade 8, red</b></p>		
<p><b><u>Traction Rope Ø 16.0 mm similar EN 12385-4 with steel-core</u></b></p> <p>Surface: <b>galvanized</b>                  Calc. breaking force: <b>206 kN</b>                  Min. breaking force: <b>165 kN</b>                  Steel wire: <b>EN 10264-2</b>                  Press connection: <b>EN 13411-3 type A</b>                  Wadra-Safety hook: <b>3.2 to, grade 8, red</b></p>		

After attaching the anchor sling (never use the traction rope as sling) make sure that the *CableTrac* can adjust itself freely in the working direction. Never pull tensioned traction rope i.e. under load over edges. This can effect permanent damages of the rope. It is absolutely important that no torsion will be build-up during preparation and operation of the rope. Damages as shown in Fig.5 and Fig.6 can initiate malfunctions and permanent damages of the *CableTrac*. Broken and loose wires may effect injuries while handling the rope and the machine.



## 2. OPERATING INSTRUCTION

### 2.1 PROPER OPERATION / UTILIZATION

#### Maximum capacity

- The *CableTrac* is designed for pulling, lifting, lowering, tensioning and securing of loads up to the indicated **lifting capacity (rated load)**. The **breaking strength** is a result of the appropriate traction rope used and the utilisation mode.

Dependent on the very special use of the WADRA-Cable-Trac step-by-step-carrier please look to safety-relevant and application-technical advices for the regulations prEN 1808 and ZH1/461.



IMPROPER hoist use could result in death or serious injury.

TO avoid these hazards:

- **NEVER** lift or pull loads as long as people are near the hazardous area of the load.
- **NEVER** lift or transport loads over or near people. Don't leave loads for a longer time or uninspected in lifted or tensioned position.
- **NEVER** operate the machine prior to assuring that the load is attached safely and that nobody is in the hazardous range of the machine and the load.

#### Attachment of the *CableTracs*:

- For attachment of the machine make sure that the machine can be operated without any risks for the operator that may occur through the anchoring device or the load.
- Attach *CableTrac* between load and anchoring point in such a manner that the machine can adjust itself freely in the direction of the traction rope and the traction rope runs centrally to the direction of the force into the *CableTrac*.
- Turning around of the traction rope only with functionable and appropriate cable blocks.
- While using load lock hooks and/or lifting slings or lifting chains make sure that the breaking strength is not lower than the capacity of the *CableTrac*.
- Make sure that the anchor pin is completely locked in and secured with the spring plug.

#### Temperatures:

- The *CableTracs* can be operated in environmental temperatures between -10° C and +50° C. For operation under extreme conditions contact manufacturer for advice.
- **NOTE:** When operating the machines under a temperature of 0°C check brake and traction rope for icing.

#### Regulations:

- The local regulations for the prevention of accidents and safety regulations for manually-operated lifting devices must be observed.

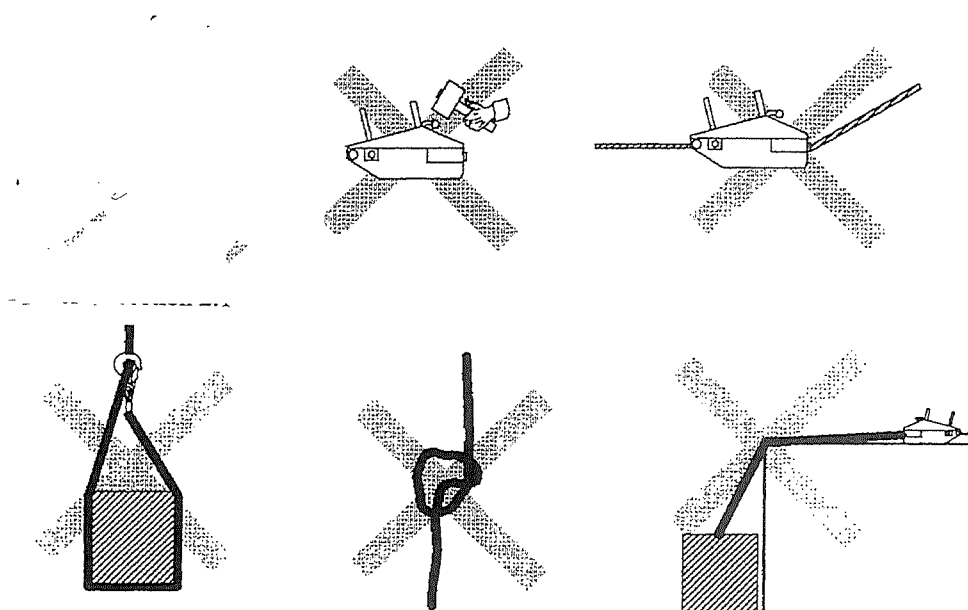
#### Maintenance/Repairs:

- The proper utilisation of the *CableTrac* includes the observation of the operating instructions as well as the inspection and maintenance regulations.
- NEVER operate a *CableTrac* if damaged or malfunctioning.



### 2.2 IMPROPER/PROPER UTILISATION:

- NEVER lift more than rated load (nominal load).
- NEVER use a hammer or similar devices to initiate rope release lever - push only by hand.
- NEVER attach anchor slings into pin bores directly.
- NEVER use traction rope as lifting sling.
- NEVER twist or bend traction rope or use a twisted, kinked, damaged or stretched rope.
- NEVER pull traction rope over edges.
- NEVER turn loads around the rope axis („bird cages“).
- NEVER remove the safety latches of the load lock hooks.
- NEVER let *CableTrac* fall down from height.
- ALWAYS use original telescopic operating levers and shear pins.
- ALWAYS use original anchor pins.
- ALWAYS operate in straight line between load hook and anchor pin.



### 2.3 START-UP

- **Checking prior to first utilisation:**

Prior to the first utilisation the *CableTracs* must be inspected by an expert and any defect must be removed. This inspection is a visual and functionality test. This test shall ensure that the *CableTrac* is in a safe condition and that defects or damages that might have occurred through impertinent transport or storage are identified and removed.

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An expert is e.g. the service engineer of the manufacturer or supplier. The operator can commission his own trained employees with the testing. The test must be arranged by the operator. For certified expert training courses for operator's employees please contact the manufacturer.

- **Checking prior to each utilisation:**

Prior to every start-up the *CableTrac* including the traction rope, the slings, accessories and the abutment must be checked for obvious damages or failures. Furthermore the functionality of the clamps and the correct anchoring of the *CableTrac* and of the load must be tested. Therefore lift, pull or tension the *CableTrac* over a short distance and release again.

- **Checking of traction rope:**

Visual test for external defects, deformations, bends, breaks of strands, crushings, corrosion, overheating and diminutions of the rope cross-section.

**Use only original Wadra-Traction Ropes !  
Wadra-Traction Ropes have an orange coloured identification strand.**

**Make sure that traction rope diameter corresponds with the appropriate *CableTrac*.**



Type	Capacity	Rope diameter
808	800 daN	8.4 mm
816	1600 daN	11.5 mm
832	3200 daN	16.0 mm

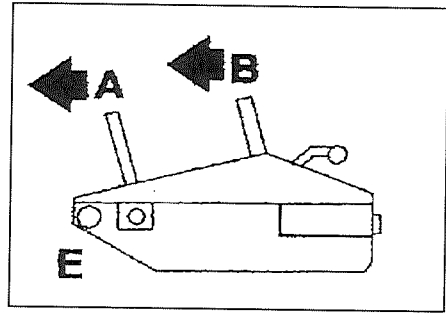
- **Checking of load hooks:**

Checking of load hooks for deformations, damages, cracks, wear and corrosion.



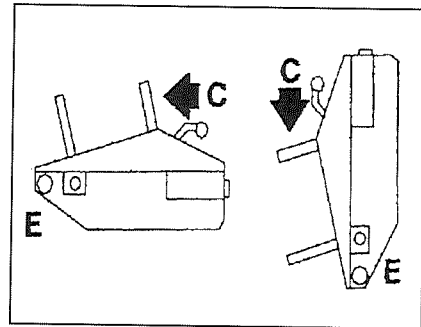
## 2.4 FUNCTION / OPERATION

1. **Introduction of traction rope:** Move the forward lever A and the reverse lever B into the direction of the anchor pin E.

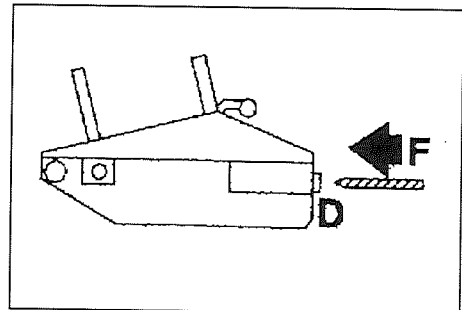


1. Push rope release lever C into direction shown so that it glides over the top of the housing and locks into the end position (clamps opened).

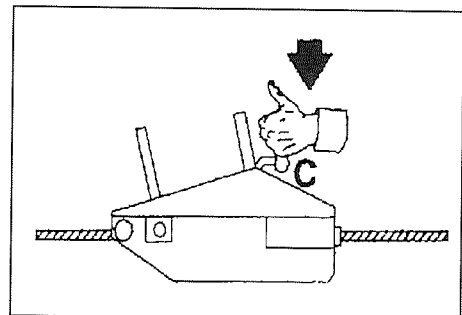
**This is easier when the *CableTrac* is positioned vertically on the anchor pin E and the lever C is pushed downwards (do not use a hammer, but push vigorous).**



1. Introduce the pointed end of the appropriate traction rope into the rope entry bushing D and push through the clamp system until it exits over the anchor pin. Make sure that the rope is completely pushed through the CableTrac and it moves freely.



4. Unlock rope release lever C with a slight vertical hit - the lever bounds back in its initial position (clamps closed). The *CableTrac* is now ready for operation.



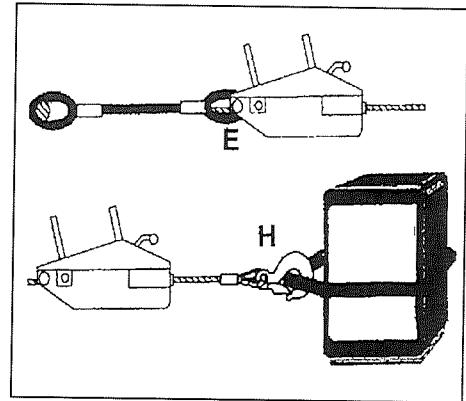
## CableTrac-Rope Puller Type 808 / 816 / 832

- **Attaching of loads:**

Retain *CableTrac* at the anchor pin E with a rope or any alternative suitable device to an appropriate abutment.

Install *CableTrac* between load and abutment in such a manner that it can freely adjust itself in the direction of the rope and the traction rope runs centrally to the direction of force into the *CableTrac*.

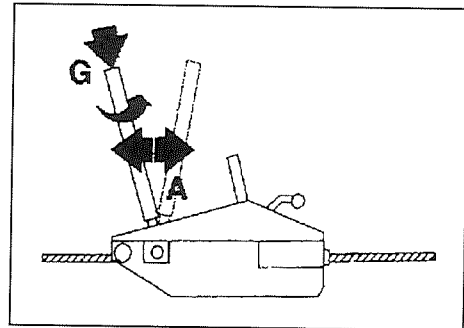
**Attach load always in the center of the hook.**



The traction rope must be attached to the load by using the safety hook H.

- **Pulling and lifting:**

1. Plug operating lever respectively telescopic operating lever G onto forward lever A and lock by turning.
2. Move forward lever back and fro and use maximum stroke.



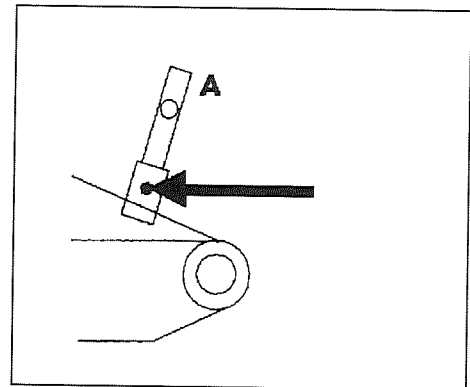
- **Overload protection:**

The shear pin in the forward lever A shears off at high overload. New shear pin (in the operating lever or the handle) can be replaced under load.

**Attention:**

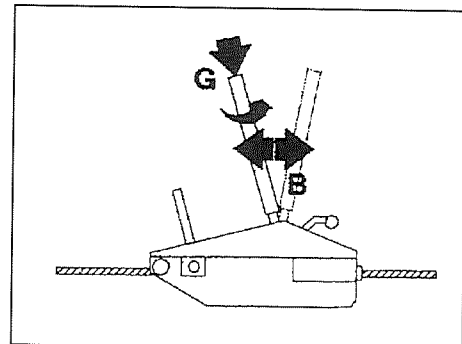
**When shearing off, it's possible that the operation lever will be released abruptly. You can be stumbling or falling!**

**Pay attention for absolutely safe standing**



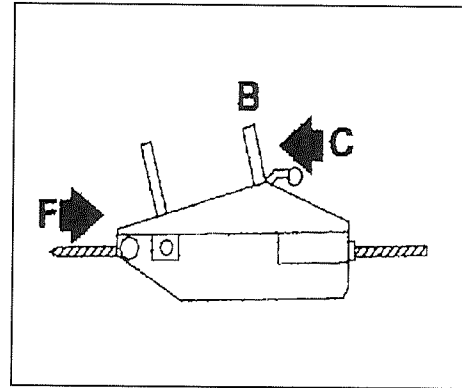
- **Releasing and lowering:**

1. Plug operating lever respectively telescopic operating lever G onto reverse lever B and lock by turning.
2. Move reverse lever back and fro and use maximum stroke..



### 2.5 SHUT-OFF

The traction rope will be completely released by operating the reverse lever B. The rope release lever C must be pushed back as done during start-up. The clamps will be opened. Now the traction rope can be pulled out of the *CableTrac*.



### 2.6 INSPECTION / MAINTENANCE

- **Regular inspections:**

By means of regular inspections/testing through an expert it must be ensured that the lifting devices are kept in a safe condition. These inspections must be carried out at least once per year, if operating the lifting devices under severe conditions, the intervals have to be shortened.

Basically these inspections are visual checks and functionality tests. Hereby, the condition of the components regarding damages, wear, corrosion etc. will be evaluated as well as the completeness and functionality of the safety devices. To evaluate the clamps a proof load in the range of the nominal capacity is required. To evaluate wear parts a disassembly of the lifting device might be required. **Please note:** Repairs only through authorized repair shops using **original Wadra-spare parts**.

The inspections/testing must be arranged by the operator.

- **Regular maintenance:**

Clean soiled devices with water flush and grease internal system with motor oil e.g. SAE/EP 90,SAE/EP 140 or SAE 40 from top opening thereafter.

If soiled heavily please clean as follows:

1. Remove housing.
2. Clean internal system as a complete unit in petrol bath and grease with motor oil as indicated above thereafter.
3. Reassembly *CableTrac* and carry out function and load test.

### 2.7 STOCKING

For longterm stocking move the rope release lever C into its initial position to ensure that the pressure springs are not activated.

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For further information and help our technical service  
is available at any time

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**DECLARATION OF CONFORMITY  
as per EEC Directive Maschinen 2006/42/EG**

We,

**Wadra GmbH  
Tecklenborn 49, D-44143 Dortmund**

hereby certify, that the products has been designed and manufactured in accordance with the following harmonized and national standards.

This declaration is valid only unless modified without prior approval.

**Designation of machine:** **Wadra-CableTrac**  
**Typ 808, Zugkraft (WLL) 800 daN**  
**Typ 816, Zugkraft (WLL) 1600 daN**  
**Typ 832, Zugkraft (WLL) 3200 daN**  
**[Type of machine:**  
Hand-powered lifting device (Lifting- and pulling device)

**Serial number:** as of 01/95  
(Serial numbers for each unit will be documented in the production book an market „CE“)

**Applicable EC-directive:** EEC Directive Maschinen (2006/42/EG)

**Applicable harmonized standards, especially:** DIN EN ISO 12100 (Safety of machines)

**Applicable national standards and technical specifications, especially:**  
EN 13157 ( Hand powered lifting equipment)  
excluded 5.2.6  
EN 12385-4 (Steel wire ropes)  
EN 1677-2 (Large-eye hooks)  
EN 13411-1 (Shaped steel thimbles for wire ropes)  
EN 13411-3 (Wrought aluminium alloy ferrules)

**Handling of documents:** Wadra GmbH, Dortmund

**Date / Manufacturer's signature:** 30.05.2018

**Position:** Torsten Schneider, Managing Director

