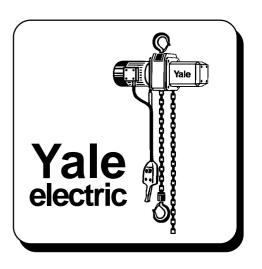
Yale

Electric Trolley Model VTE/F-U

with Shackle Suspension Capacity 1000 - 5000 kg



Operating and Maintenance Manual Spare Parts Catalog

Yale

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1. INTRODUCTION

Attention: All users must read these operating instructions carefully prior to initial operation. These instructions are intended to acquaint the user with the electric winch and enable him to use it to the full extent of its intended capabilities.

The operating instructions contain important information on how to handle the electric winch in a safe, correct and economic way. Acting in accordance with these instructions helps to avoid dangers, reduce repair costs and down time and to increase the reliability and lifetime of the electric winch. These operating instructions have to be always available at the place where the winch is used. Anyone involved in doing any of the following work with the electric winch must read the operating instructions and act accordingly:

- operation, including preparation, trouble shooting during operation and cleaning maintenance
- inspection and repair and / or
- transport

Apart from the operating instructions and the accident prevention act valid for the respective country and area where the winch is used, also the commonly accepted regulations for safe and professional work must be adhered to.

2. OPERATING INSTRUCTIONS

2.1 Correct operation

Maximum capacity

• The Yale electric chain hoist model CPE is designed to lift and lower loads up to the rated capacity. The lifting capacity indicated on the hoist / trolley is the maximum safe working load which must not be exceeded.



Danger zones

- Do not lift or transport loads while personnel are in the danger zone.
- Do not allow personnel to pass under a suspended load (see Fig. 2)
- After lifting or tensioning, a load must not be left unattended for a longer period of time.

Attaching the trolley

• The operator must ensure that the trolley is attached

correctly and can be operated in a manner that does not expose himself or other personnel to danger by the hoist, trolley, chain(s) or the load.

Temperature range

• The hoist / trolley can be operated in ambient temperatures between -10° C und +50° C. Consult the manufacturer in case of extreme working conditions.

Regulations

• The accident prevention act and/or safety regulations of the respective country for using manual and electric hoists must be strictly adhered to. In Germany these are VBG 8, VBG 9, VBG 9a, ZH 1/25, ZH 1/27, and VDE 0100 resp. VDE 0130.

Maintenance / Repair

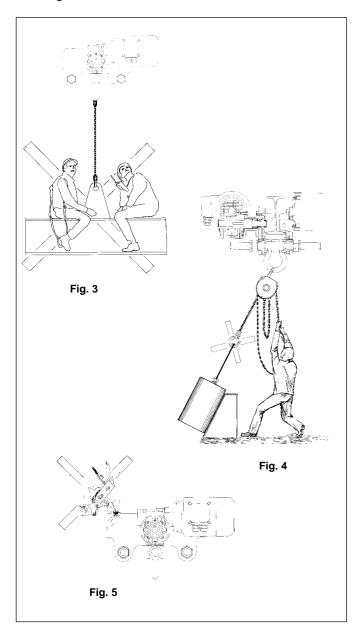
• In order to ensure correct operation, not only the operating instructions, but also the conditions for inspection and maintenance must be complied with. If defects are found stop using the hoist / trolley immediately.

Attention: Before starting work on electrical components switch OFF the main current switch and secure it against unintentionally being switched back on.



2.2 Incorrect operation

- Do not exceed the rated capacity of the trolley.
- Do not use the trolley for the transportation of people (Fig. 3)
- Welding on the trolley is strictly forbidden (Fig. 5).
- Avoid side pull, i.e. side load on either traverse or sideplate (Fig. 4).
- Do not throw the trolley down. Always place it properly on the ground.



2.3 Initial operation

Inspection before initial operation

Each trolley must be inspected prior to initial operation by a competent person and all irregularities rectified. The inspection is visual and functional and shall establish that the unit is safe and has not been damaged by incorrect transport or storage. In particular check that the roll-pins are correctly fitted (see page 4, fig. 6) Inspections should be made by a representative of the manufacturer or the supplier although the company can assign its own suitably trained personnel. Inspections are instigated by the user.

• Inspection before starting work

Before starting work, inspect the electric trolley and all load bearing constructions visual every time for obvious defects. Furthermore, check that the trolley, hoist and load are correctly seated. The selection and calculation of a suitable suspension point is the responsibility of the user.

Inspection of traverse

Check the structure for correct assembly and visually check for external defects, deformations, superficial cracks, wear or signs of corrosion.

• Check trolley width adjustment

Check that the clearance between the trolley wheel flange and the beam outer edge is equal on both sides and within the tolerances (see 2.5). Enlarging the clearances, e.g. to enable the trolley to negotiate tighter curves, is forbidden.

2.4 Electrical connections

Attention:

Work on electrical components and systems may only be carried out by trained craftsmen. All loal regulations are to be adhered to e.g. DIN 7100 / VDE 0100 and DIN 57133 / VDE 0113.

Preparation

- Before beginning work on electrical components the mains current switch must be switched **OFF** and secured against unintentionally being switched on.
- Before connection, ensure that the electrical data on the nameplate matches the local supply specifications.
- The mains supply cable must be an insulated cable with four flexible leads. The ground (earth) lead must be longer than the live leads. Use sleeved on all the lead ends.
- The length of the pendant control cable is determined by working conditions. Attach the support wire in a manner that the pendant control cable hangs load-free.
- Wiring and terminal connecting diagrams are shown on the inside of the terminal box cover.

2.5 Function/operation

Assembly instruction

The trolleys are supplied pre-assembled for beam widths A or B (see technical data on page 1). This is shown on the nameplate. Before installation, ensure that the trolley width is correct for the intended carrying beam.

- 1.) Unscrew the locking and securing nuts (see Fig. 6, page 4) and remove the sideplates from the traverses.
- 2.) Measure the flange width "b" of the beam (see Fig. 6, page 4).
- 3. Adjust the measurement "B" between the shoulders of the round nuts on the threaded traverses (see Fig. 6). Ensure that the 4 bores in the round nuts face towards the outside. Adjust the measurement "B" to equal the measurement "b" plus 4 mm. The measurement "A" must be 2 mm and the suspension traverse must be centred between the shoulders of the round nuts.
- 4. Replace one sideplate ensuring that the roll pins in the sideplate engage into the bores in the round nuts. To achieve this it may be necessary to rotate the round nuts slightly.
- 5. Replace the washers and tighten the securing nuts. Screw on the locknuts fingertight and tighten a further 1/4 to 1/2 turn.

Attention: The locknuts must always be fitted.

- 6. Loosely replace second sideplate on the traverse. The washers, nuts and locknuts can be fitted loosely.
- 7. Raise the complete pre-assembled trolley to the carrying beam.



- 8.) Engage the second sideplate ensuring that the roll pins in the sideplates engage into the bores in the round nuts. To achieve this it may be necessary to rotate the round nuts slightly.
- 9.) Tighten the securing nuts on the second sideplate. Tighten the locknuts fingertight and then a further 1/4 to 1/2 turn.

Attention: The locknuts must always be fitted.

- 10.) By traversing the trolley check following:
- that a clearance of 2 mm on each side between the trolley wheel flanges and beam edge is maintained.
- the centre traverse is centred below the beam.
- that all locknuts are fitted and secured.

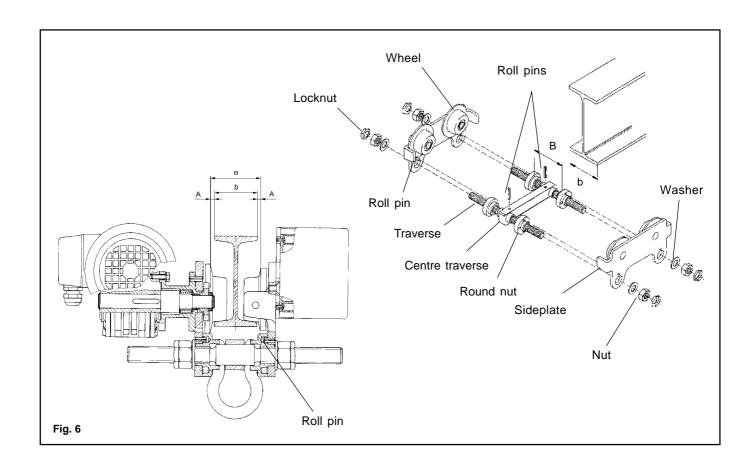
2.6 Traversing the trolley

The trolley is traversed by pressing the appropriate button on the pendant control. If the trolley malfunctions it must be taken out of operation immediately.

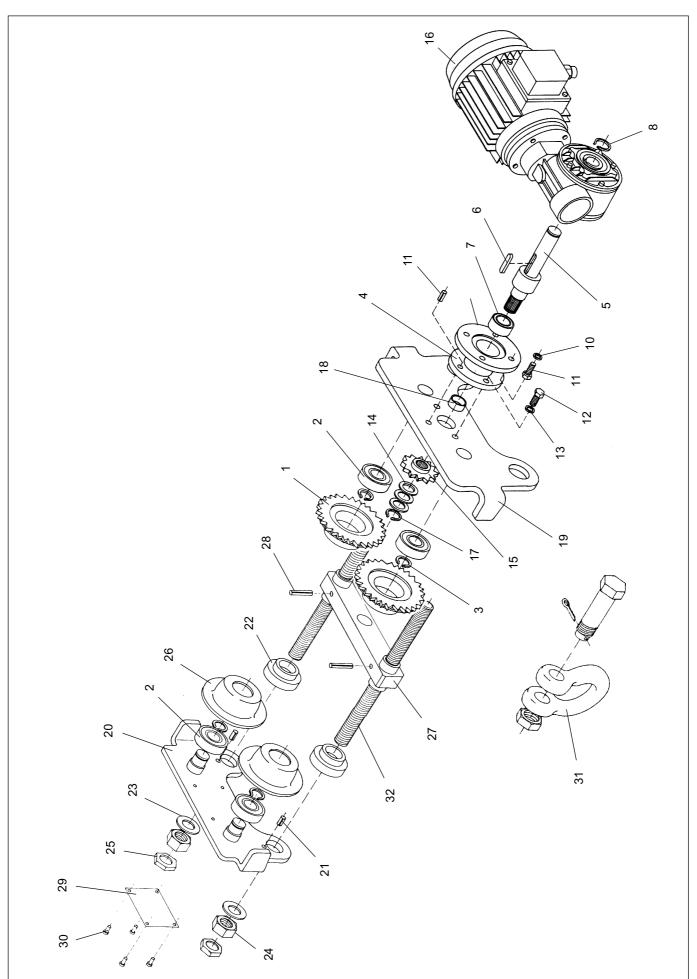
2.7 Inspection / service

Regular inspections

To ensure that the trolley remains in safe working condition it is to be subjected to regular inspections by a competent person. Inspections are to be annual unless adverse working conditions dictate shorter periods. The components of the trolley are to be inspected for damage, wear, corrosion or other irregularities and all safety devices are to be checked for completeness and effectiveness. To check for worn parts it may be necessary to disassemble the trolley. Repairs may only be carries out by a specialist workshop that uses original Yale spare parts. Inspections are instigated by the user.









* 3000 kg and 5000 kg only

				Yale P	Yale Part No.	
Item No.	Description	Q. Ş.	1000 kg	2000 kg	3000 kg	5000 kg
- 0 x 4 r	Geared trolley wheel Ball bearing Snap ring Flange Drive shaft	2 4 4 7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00508211 09151074 09129029 00719601	00508212 09151011 09129025 00719601	00508213 09151046 09129002 00719371 00719372	00508214 09151079 09129003 00719371 00719372
6 8 9 10	Fitting key Needle bearing Snap ring Hex. screw Lockwasher	4 4	09131071 09153077 09129028 09101170	09131071 09153077 09129028 09101170	09131072 09153077 09129016 09101170	09131072 09153077 09129016 09101170
<u> </u>	Roll pin Hex. screw Lockwasher Spacer Pinion	-407-	09134057 09101013 09122004 09121215	09134057 09101013 09122004 09121215 00719622	09134054 09101014 09122004 09121215 00719373	09134080 09101014 09122004 09121215 00719373
16	Drive unit - single speed 18 m/min - dual speed 18/4,5 m/min - single speed 11 m/min - dual speed 11/2,8 m/min Snap ring		00719624 00719763 00710005 00710006	00719624 00719763 00710005 00710006 09123038	- 00710007 00710008 09123038	- 00710007 00710008 09123038
18 20 21 22	Bushing Sideplate Sideplate Roll pin Round nut	44	00719870 00559096 00559089 09134055 00559090	00719870 00559142 00559140 09134057 00559146	00719870 00559152 00559154 09134054 00559157	00719870 00559165 00559167 09134120 00559168
23 24 25 26 27	Washer Hex. nut Locking nut Trolley wheel Centre traverse	4440-	09121021 09115089 09115152 00508207 00719619	09121146 09115803 09115153 00508208 00719618	09121016 09115090 09115154 00508209 00719938	09121213 09115156 09115155 00508210
28 33 32 32	Roll pin Indentity plate Grooved nail Shackle assy. Crossbar - beam range A	0 - 4 - 0 0	09134001 00719679 09128004 42000063 00559091 00559092	09134084 00719679 09128004 42000063 00559144 00559145	09134003 00719679 09128004 42000064 00559158 00559159	09134002 00719679 09128004 42000065 00559169 00559170



EC DECLARATION OF CONFORMITY

in accordance with Machinery Directive 98/37/EEC, Appendix II A

We,

Yale Industrial Products GmbH D- 42549 Velbert, Am Lindenkamp 31

hereby declare that the design, construction and commercialized execution of the below mentioned machine complies with the essential health and safety requirements of the EC Machinery Directive. The validity of this declaration will cease in case of any modification or supplement not being agreed with us previously. Furthermore, validity of this declaration will cease in case that the machine will not be operated correctly and in accordance with the operating instructions and/or not be inspected regularly.

Machine description: Model VTE/F1-A-18/U, VTE/F1-B-18/U

Model VTE/F2-A-18/U, VTE/F2-B-18/U Model VTEF/3-A-18/U, VTE/F3-B-18/U Model VTEF/5-A-14/U, VTE/F5-B-14/U

Machine type: Electric trolley

Serial number: from manufacturing year 09/95

(Serial numbers for the individual capacities / models are registered in the production book with the remark CE-sign)

Relevant CE Directives: EC Machinery Directive 98/37/EEC

Transposed harmonised EN 292, part 1 (safety of machines) **standards, in particular:** EN 292, part 2 (safety of machines)

EN 349 (safety of machines)

Transposed (either complete or in extracts) national standards and technical specifications, in particular: FEM 9.681 (Fahrmotoren)
FEM 9.681 (Fahrmotoren)
FEM 9.755 (Betriebsdauer)
FEM 9.511 (Triebwerkseinstufung)
DIN 15018 (Krane)

DIN 15070 (Laufräder) DIN 15085 (Laufräder)

VDE 0100 / Teil 726; VDE 0113 / EN 60204 VBG 8 (Winden, Hub- und Zuggeräte)

VBG 9 (Krane)

VBG 9.a (Lastaufnahmemittel) ZH 1/27 (Prüfung von Kranen)

DIN 82101 (Schäkel)

Quality assurance: DIN/ISO 9001 resp. DIN/EN 29001, module H

acc. to EC Directive 90/683 EEC

Date / Manufactuer's

authorized signature: 24-04-2001 Called --

Identification of signee: Quality Assurance Manager