

Thomson Engineering Design Ltd  
**Cable Yoke**



**Operator's Instructions**

**Original Document in English Language**

**Issue 1  
August 2013**



# Introduction

*The Thomson Engineering Design Cable Yoke has been designed for the lifting and de-coiling of cable on wooden drums .*

The device requires no hydraulic, electrical or pneumatic feed.

This document is designed to give operators and crane controllers the information necessary to use the Cable Yoke in a safe and efficient manner. It includes routine daily checks which would normally be carried out by operators but attention is drawn to the maintenance plan for this attachment which gives more details of these operations.

The Cable Yoke Maintenance Plan is available a separate document number CY-maint-01.

## **Warning**

**The Thomson Engineering Design Cable Yoke must not be used for any purpose or in any way not described within this document. Using the Thomson Engineering Design Cable Yoke for any purpose not described in this document could be dangerous and may invalidate the manufacturer's warranty.**

## **Warning**

**The maximum load which may be applied to the Cable Yoke is marked on the manufacturer's plate.**

**It is extremely dangerous to overload any lifting device and doing so may lead to severe injury.**

The tare weight of the Cable Yoke must be taken into account when planning lifting operations.



The Thomson Engineering Design CableYoke is proudly designed and made in the United Kingdom.

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## Specifications

This manual covers all sizes of Cable Yoke. For individual specifications consult the manufacturer's data plate affixed to each unit.

## Issue Record

Issue 1

August 2013

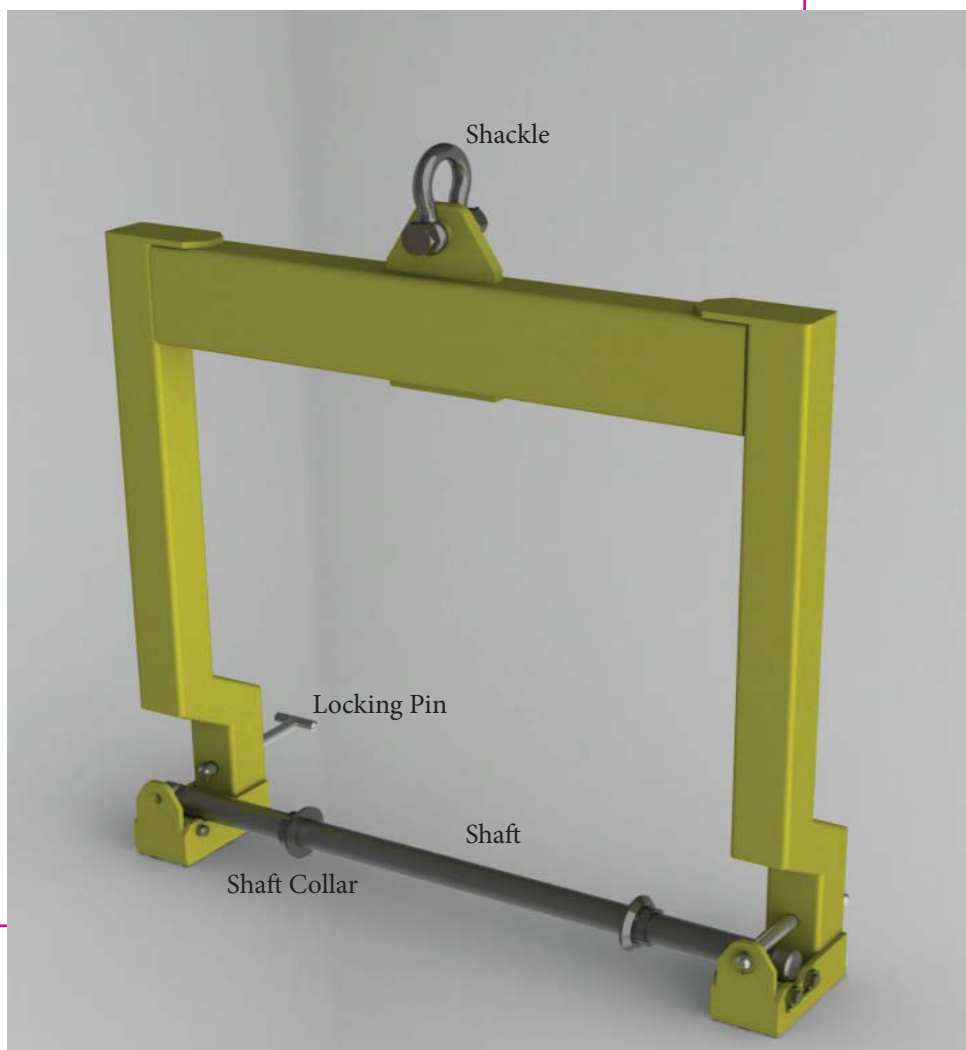
# Description of the Cable Yoke

*The main parts of the Thomson Engineering Design Cable Yoke are illustrated below.*

The device consists of a fabricated steel frame fitted with a lifting shackle at the top for connection to the crane and rollers at the bottom of each leg.

The rollers are used to support a specially made drum shaft which carries two removeable collars. The collars are fixed in position on the shaft by clamp bolts.

To prevent the shaft from coming out of the frame locking pins are provided at each end. The locking pins are secured with Spring Clips.

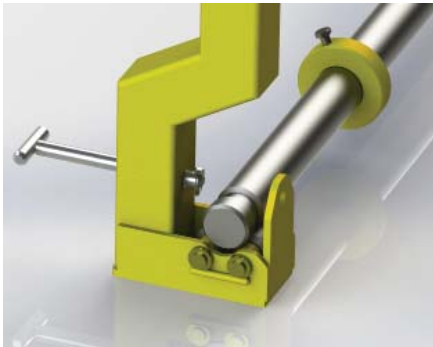


# Daily Checks and Maintenance

*D*aily checks of the Cable Yoke are designed to ensure that it is fit for use.

The following is a list of the relevant daily checks. These should be carried out at the start of the shift before putting the CableYoke into service. If the CableYoke is used for an extended period then these checks and maintenance operations should be repeated every eight to twelve hours of use.

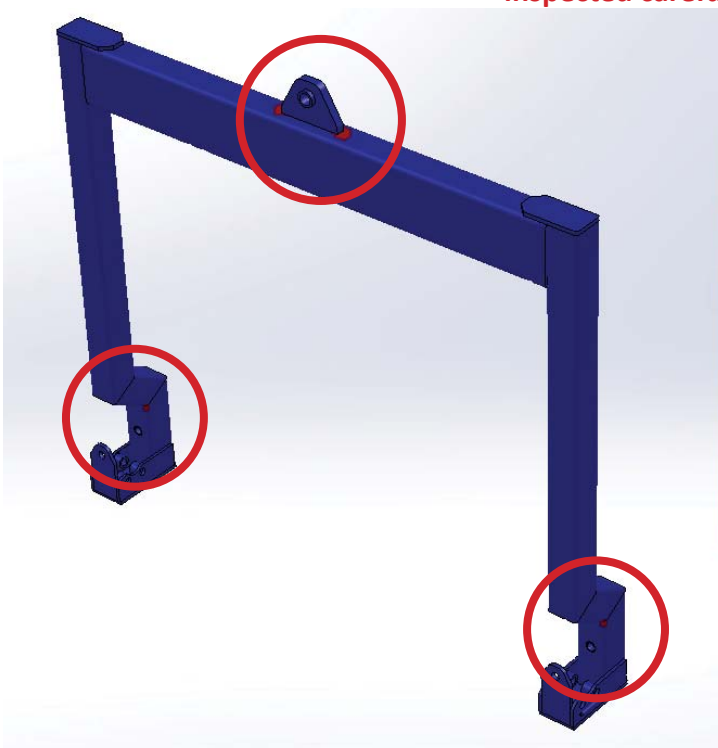
Each of these operations is described in detail in the Cable Yoke Maintenance Plan.



Check that the Locking pin moves freely and that the spring clip is fitted.

- Shackle is in good condition and securely fitted
- Locking Pins in good condition and Spring Clips secure
- Shaft revolves freely on rollers
- Roller bushes not excessively worn
- Frame is free of cracks and distortion
- Loler certificate is in date
- Manufacturer's plate is fitted and legible

**Note: the illustrations indicate the most likely areas where stress cracks might occur in the event of repeated overloading of the beam however damage in transit and abuse of the CableYoke may lead to cracking at any point and the entire structure should be inspected carefully each time it is used.**



The areas in red indicate the parts of the beam most vulnerable to stress fracture in the event of overloading or abuse.

# Attaching and Connecting the Cable Yoke

## *Suspending the Cable Yoke from the Host Machine*

Connect the shackle point of the Cable Yoke to the lifting point of the host machine using a short length of chain and a swivel hook.

**It is important that the connection is secure.**

## *Handling the Cable Yoke*

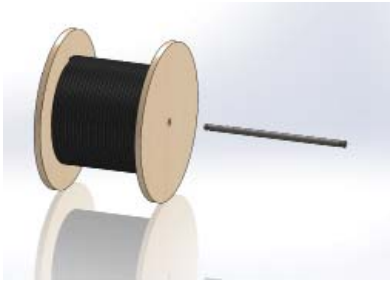
The Cable Yoke should always be lifted and handled using the shackle.

**Never lift by any other part of the Cable Yoke as to do so may distort or damage the frame.**

**BEFORE USING THE CableYoke ENSURE THAT A LIFTING PLAN IS PROPERLY PREPARED AND BRIEFED TO ALL PERSONNEL. ENSURE THAT THE LIFTING PLAN TAKES INTO ACCOUNT THE TARE WEIGHT OF THE BEAM AND THE TANDEM LIFT DUTY CHART OF THE HOST MACHINE.**

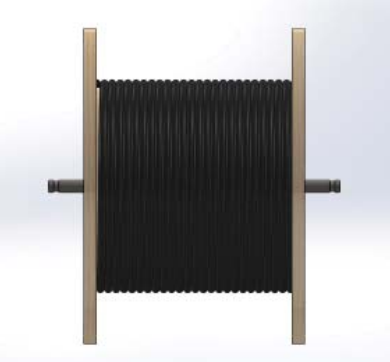


# Using the Cable Yoke



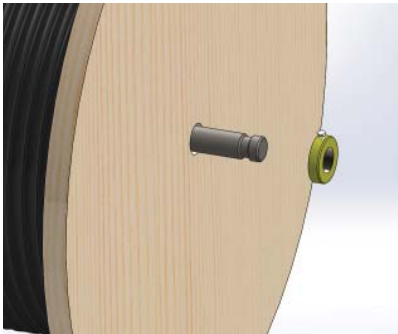
1.

Insert the shaft into the cable drum.



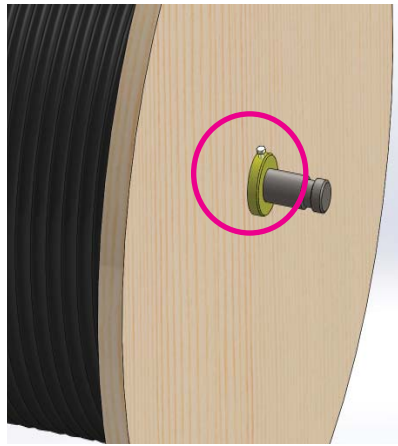
2.

Centralise the shaft so that the same amount of shaft is visible at each end of the drum



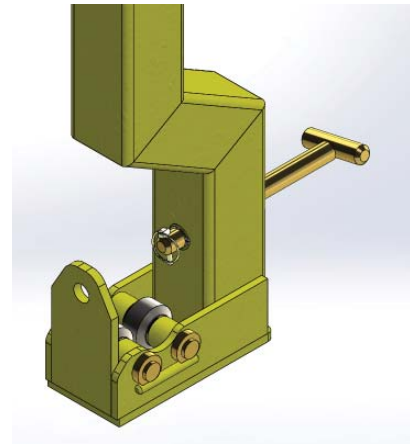
3.

Fit the collars to both ends of the shaft



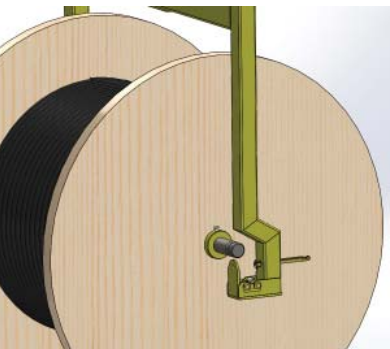
4.

Press the collars against the drum and tighten the clamp bolts



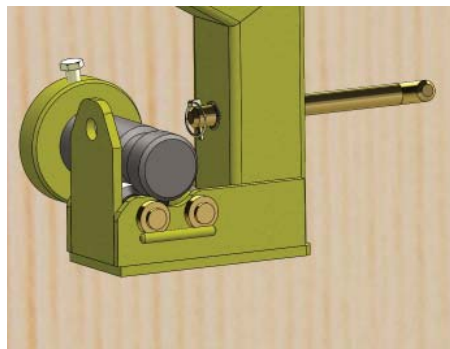
5.

Withdraw the locking pins



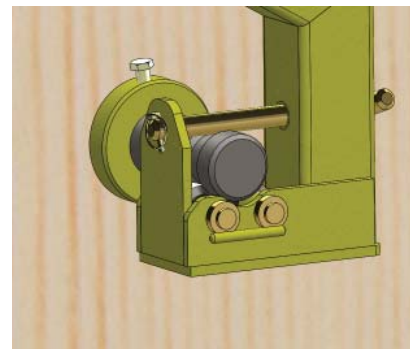
6.

Lift the frame into position so that the shaft ends pass into the forks



7.

Ensure that the grooves in the shaft seat firmly on the rollers



8.

Push locking pins into place and secure with spring clips.

## Fitting the Cable Yoke to a Cable Drum

To fit the Cable Yoke to a cable drum follow the pictorial instructions on this page.

First fit the shaft to the drum. Ensuring that the drum is in the middle of the shaft fit the collars with the chamfered edge outwards and tighten the collar clamp bolts.

The shaft and drum can now be lifted using the frame.

**IT IS VITAL THAT THE LOCKING PINS ARE FITTED AND CLIPPED AS SHOWN IN FIGURE 8 BELOW BEFORE LIFTING OR DE-COILING CABLE**

# Disconnecting and Transporting the Cable Yoke

*Once the lifting operation is complete the used drum should be removed and the shaft re-fitted in the frame.*

Do not leave the Cable Yoke or attempt to transport the Cable Yoke standing upright unless securely tethered.





# Warnings

## WARNING

DRUM LIFTING IS A LIFTING OPERATION.

ALL LIFTING OPERATIONS MUST BE CAREFULLY PLANNED TAKING INTO ACCOUNT THE DUTY CHART OF THE HOST MACHINE TO ENSURE THAT NEITHER THE CableYoke NOR THE HOST MACHINE CAN BECOME OVERLOADED.

OVERLOADING OF THE CableYoke OR THE HOST MACHINE MAY LEAD TO SERIOUS INJURY OR DEATH.

## WARNING

NEVER LIFT OR MOVE CABLE DRUMS UNTIL YOU ARE SURE THAT THE WORK AREA IS CLEAR OF ALL PERSONNEL.

WORK SLOWLY AND SAFELY AT ALL TIMES.

NEVER STAND BENEATH ANY SUSPENDED LOAD

## WARNING

ONLY TRAINED AND COMPETENT OPERATORS SHOULD USE THE CableYoke .

DO NOT ATTEMPT TO USE THE CableYoke UNTIL YOU HAVE READ AND UNDERSTOOD THIS OPERATORS' MANUAL.

ALWAYS COMPLETE THE DAILY CHECKS BEFORE USING THE CableYoke .

## WARNING

THE CableYoke IS DESIGNED FOR HANDLING CABLE DRUMS. IT MUST NOT BE USED FOR ANY OTHER PURPOSE.

THE USE OF THE CableYoke FOR ANY OTHER PURPOSE MAY LEAD TO SEVERE INJURY TO PERSONS AND DAMAGE TO THE DEVICE.

*If any part of this Operators' Instruction document is unclear or for any technical advice please contact the manufacturer.*

Manufacturer's contact details can be found on Page 10.

# Contacting the Manufacturer

*The Thomson Engineering Design Cable Yoke is manufactured in the United Kingdom by:*

**Thomson Engineering Design Ltd**  
**Valley Road**  
**Cinderford**  
**Gloucestershire**  
**England**  
**GL14 2NZ**

**Tel: +44 (0) 1594 82 66 11**

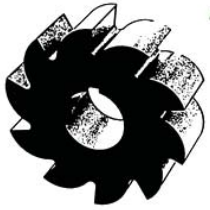
**Fax: +44 (0) 1594 82 55 60**

**Email: [sales@thomsondesignuk.com](mailto:sales@thomsondesignuk.com)**

All spare parts, technical, training and sales enquiries should be directed to the manufacturer.

Please note that outside normal business hours all calls are diverted to an on-call technical advisor.





THOMSON ENGINEERING DESIGN LTD

RAIL PRODUCTS

## Certificate of Conformity

WE:

THOMSON ENGINEERING DESIGN LTD

Valley Road

Cinderford

Gloucestershire

GL14 2NZ

Declare under our sole responsibility that the product known as:

CABLE YOKE

To which this declaration relates is in conformity with the following standards:

2006/42/EC

Authorised signatory:

David Thomson BSc CEng MIMechE

August 2013

