



Operating Instructions for the Safe Use of Pulley Blocks



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INSTRUCTIONS FOR THE SAFE USE OF BLOCKS

This document is issued in accordance with the requirements SI 1992 No. 3073 Health & Safety Machinery Directive “The supply of machinery (Safety) Regulations 1992 and amendment SI 1994 No: 2063”.

It should be read in conjunction with the requirements for lifting appliances for general purposes and any other specific instructions issued by the supplier and the employer.

This information is of a general nature only, covering the main points for the safe use of lifting equipment.

SELECTING CORRECT BLOCKS:

Pulley Blocks are available in a variety of types and sizes. Making them suitable for both temporary and permanent applications.

When selecting the correct block the following points should always be considered:

- (1) Details of block required i.e. capacity, rope type, how many falls, type of head fitting.
- (2) Environmental conditions indoor or outdoor, if outdoor ensure block is suitable for this application.
- (3) Never tamper or modify the blocks unless advised by the manufacturer to do so.

OPERATIVE TRAINING:

Lifting Equipment should only be used by operatives who have received training in their use and that of the associated equipment used when lifting.

INSTALLATION & COMMISSIONING:

The installation of lifting equipment should be carried out in accordance with the supplier's instructions.

Paying attention to the following:

- (1) Prior to installation, inspect the equipment to ensure no damage has occurred in transit.
- (2) Ensure that the support structure is adequate for the loads that will be imposed (in the case of Pulley Blocks this will also include effort), including an allowance for dynamic loading, has been proof tested & marked with SWL. Additionally where this forms a part of, or is, attached to the building structure, ensure that the suitability of the building members for this purpose has been confirmed by a qualified person.
- (3) When suspending appliances by a hook ensure the support fits freely into the seat of the hook and does not exact any side thrust upon the point or latch.
- (4) Product welding can be hazardous and should not be implemented without first seeking instructions from the supplier / manufacturer.

SAFE USE OF LIFTING APPLIANCES:

The basic objectives of any lifting operation is to move the load to the desired location and land it safely, efficiently and without damage to the load, plant etc. (in addition the following general points should be observed):

- (1) **NEVER** attempt any lifting operation unless you have been trained in the use of the equipment concerned

- (2) **NEVER** attempt to lift / lower more than the marked SWL.
- (3) **NEVER** impose sudden or shock load.
- (4) **NEVER** leave suspended loads unattended, unless in an emergency then ensure that the area is cordoned off.
- (5) **NEVER** use chain or wire to sling the load.
- (6) **NEVER** lift on the point of the hook.
- (7) **NEVER** force manual equipment to operate, if an abnormally high effort is required this is an indication of a fault or too high a load, check the load and appliance.
- (8) **ENSURE** the load is directly in line with the appliance, **DO NOT** sideload the equipment.
- (9) **ALWAYS** keep clear of the load and **DO NOT** pass under or ride on the load, **DO NOT** lift persons unless designed to do so.
- (10) **ALWAYS** avoid swinging loads which can be caused by sudden movement or travel motion or undue effort in pushing the load.
- (11) **ALWAYS** keep fingers and toes clear to ensure they do not become trapped.

IN SERVICE INSPECTION AND MAINTENANCE:

It is a Health & Safety requirement that lifting equipment is properly maintained at all times, this is an ongoing duty that falls on the user, and a planned routine maintenance programme will be necessary. Regular in-service inspections should be made by the responsible person to identify faults and damage that might result during service.

- (1) The maintenance programme must meet the requirements of the manufacturer's maintenance instructions in addition to any special requirements due to the conditions of service.
- (2) The maintenance programme may be combined with that of other equipment used in association with the appliance.
- (3) As a daily routine, the user should visually inspect the block and its associated equipment for obvious signs of damage and report these to the responsible person.
- (4) It is a further requirement that lifting equipment is thoroughly examined by a competent person at periodic intervals. It should be noted to the Employer any defects found during the thorough examination.
- (5) All lifting gear should be inspected at least every six months, after any repair, and always before taken into use.
- (6) When inspecting block tackle for wear check head fitting for deformation gouges, cuts and sharp edges, and any damage which may produce additional stress conditions. Check for excessive wear in pins, side plates, grooves, bushes or bearings. Check security of bolts, nuts and any other locking method, and ensure that during continuing usage cannot vibrate loose. If any defect is found the equipment **MUST** be withdrawn from service.

LUBRICATION:

Lubrication depends on the type of frequency usage as well as environmental conditions, assuming normal usage conditions, as a general guide, the following schedule must be used:

(1) **Phosphor Bronze Bearing or Bush.**

Every eight hours of continuous use or every fourteen days of intermittent operation.

(2) **Ball Bearings.**

Every twenty-four hours of continuous use or every fourteen days of intermittent operation.

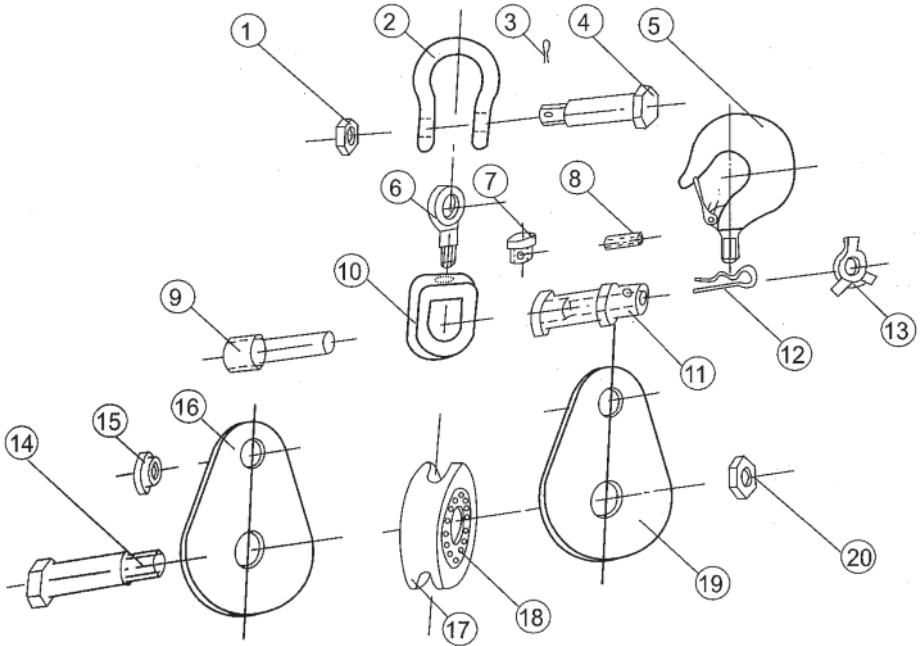
(3) **Taper Roller Bearings.**

Every forty hours of continuous use or every thirty-six days of intermittent operation.

(4) **Head Fitting Grease Points.**

Every fourteen days.

We cannot accept responsibility for misuse of equipment.



Part#	Description	Qty
1	Nut	1
2	Shackle	1
3	Split Pin	1
4	Shackle Pin	1
5	Hook	1
6	Round Eye	1
7	Hook (eye) Nut	1
8	Spring Pin	1
9	Lift Pin	1
10	Swing Eye	1

Part#	Description	Qty
11	Lift Pin Bushing	1
12	Spring	1
13	Handle Sheave	1
14	Middle Axle	1
15	Plate Nut	1
16	Lift Side Plate	1
17	Sheave	1
18	Roller Bearing	1
19	Right Side Plate	1
20	Middle Axle Nut	1