

General Instructions and Maintenance Manual for Hook-blocks

Introduction

This warning and application are meant for all hook blocks, manufactured by “De Haan Special Equipment B.V.” The purchaser or end-user is responsible for the proper and safe use of the products.

Warning notices

The terms **DANGER** and **WARNING** used in this Application, is meant for all who are using or are in close contact with our products, in order to make them aware of the possible dangers.

Warning sign	Signal Word	Explanation
	Danger	Indicates a hazardous situation that death or serious injury will result if it is not avoided.

Further information

The term **Information**, used in this manual should draw the attention to all the persons who are working with or are nearby the products, and will show useful information and tips.

Sign	Signal word	Explanation
	Information	Indicates useful information and tips

DANGER

Risk of death due to improper handling!
Incorrect operation of products can result in death or serious injury!

- ▶ Only authorized or qualified personnel are permitted to work with our products!

All the technical information, delivered with the products, for example Instructions or additions to the manual, must be observed.

Failure:

-  Failure of the product can occur due to improper use or misapplication.

-  Also, improper maintenance is a risk of failure. Failure of the product can result in falling or damaged load, which can result in serious injury or even death.

For repairs, the owner or user should contact:

De Haan Special Equipment BV,

dehaan@dehaan-se.com

Tel. +31(0)599613300

Working Load Limit:

The “working load limit WLL” or “safe working load SWL”, which is mentioned on each product, may never be exceeded.

-  Overloading of this WLL / SWL can result in serious injury or even death.

General:

During operation, all safety measures applicable to the use of lifting and lashing need to be observed.

-  These instructions must be read before working with the “hook blocks”!

De Haan-SE is not responsible for the use of wire ropes, which are not suitable for the specific hook block.

- Hook-blocks are designed for lifting operations and designed in cooperation with the customer or end user.
- Wire rope diameter must be suitable for the specific sheave.
- The Safe Working Load (SWL) or Working Load Limit (WLL) is mentioned on the Identification-plate, mounted on the hook block, or mentioned with hard stamped marking.

Maintenance and Inspection:

The frequency of inspection and lubrication depends upon frequency, period of product use as well as environmental conditions and a correct judgement of the user.

-  Not following these guidelines, can result in failure of the product.

Assuming normal product use, the following guideline are to be followed:

INSPECTION:

The hook block must be regular, but at least yearly be inspected on the points below:

- Wear on side plates, rope grooves, axles, pins, bushing or bearings.
- Deformation in hook block parts; (check of “y” dimension of hook, acc. material certificate)
- Misalignment or wobble in sheaves.

- Securing of nuts, bolts and other locking methods.
- Corrosion.
- Weld-cracking
- Function of safety latch in hook

The owner or end user should contact the below manufacturer for repair:

De Haan Special Equipment BV,
dehaan@dehaan-se.com
 Tel. +31(0)599613300

LUBRICATION:

Grease spec: "Shell Gadus S5 V220C 2"
 or equivalent

Sheave Bearings:

Roller bearings: Roller bearings are filled with "lifetime" greasing. In case of wear the bearing needs to be replaced with same type of bearing with lifetime greasing. If sheave or shaft is equipped with a greasing point, this must be greased together with the axial bearing.

Bronze Bushings: Every 8 hours of continuous operation or every 14 days of intermittent operation.

Hook Bearings: The hook must be regular rotated during lubrication!

Axial bearing: Every 14 days of continuous operation or monthly for infrequent swiveling.

Bronze bearing: Every 24 hours for frequent swiveling or every 14 days for infrequent swiveling.

- ▶ Hook must support the load; the load must never be supported by the latch.
- ▶ Every hook must be equipped with safety latch, this latch must be closed during lifting operations.
- ▶ The load shall not restrict the closure of the latch.
- ▶ Max. load on a becket = SWL/WLL : number of reeves.
- ▶ Welding on products is not permitted, only with written permission.
- ▶ Keep hands and body away from movable parts during lifting or lashing.
- ▶ Workers should wear proper safety gear in, or nearby areas where loads are moved or supported with the hook block.
- ▶ Safety latches acc. OSHA rules "29 CFR 1926.550 Cranes and Derricks" must be used on hook, in combination with Man Basket operations.
- ▶ See further "ASME B30.10-200X" rules for additional hook information.
- ▶ Demountable weights are strictly prohibited on hook blocks, in use at cranes on barges.
- ▶ Vibro-hammers are strictly prohibited in direct connection to the hook. Special slings are required for this specific type of job.
- ▶ It is recommended not to drive the crane with demountable weights attached to the reeved hook block.

Warranty conditions:



Warranty conditions of the products, during normal use according "General Instructions" are:

- ▶ 18 months after delivery
- ▶ 12 months after use
- ▶ Or agreed otherwise.

Warnings:

- ▶ Side load must be avoided, load must be straight loaded with one sling, or with a maximum angle of 2x45° during use of two slings; (see Fig. 1)
- ▶ Load must be applied gradually.
- ▶ Ramshorn hooks must be loaded equally at both sides. (see Fig. 2)

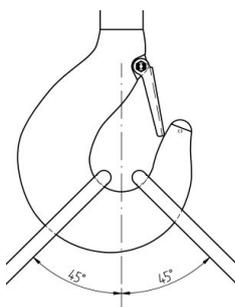


Fig. 1

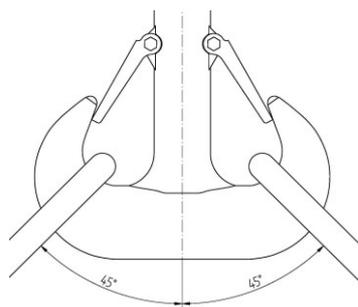


Fig. 2