



说明书材质要求：105g 有光铜版纸	说明书成品尺寸：105*143mm
Black（单色印刷）	
折叠方式：风琴折	备注：
特别注意：此页内容不印刷	

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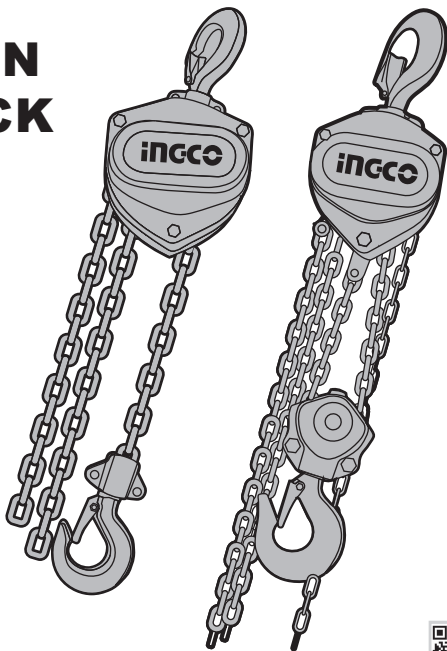
更改记录	1. 更新风格			更新公司名、地址		
	0423.V05	2023.4.12	Kitty	1223.V06	2023.12.28	CH
	版本号	日期	设计师	版本号	日期	设计师

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PRODUCT MANUAL

CHAIN BLOCK



HCBK0201 HCBK0202 HCBK0203 HCBK0205
HCBK0601 HCBK0602 HCBK0603 HCBK0605



SCAN FOR VIDEO

ADDITIONAL SAFETY WARNING**Safety instruction****⚠ Warning**

Be sure each person reads and understands this manual before operating or maintaining the hoist. the manual hoist must be properly operated and maintained at all times. Do not operate this hoist with any power devices.

- All persons involved must read this handbook and be completely familiar with all operating and maintenance procedure.
- Do not exceed the rated load limit. Overloading may cause hoist failure.
- Do not use power devices to operate the hoist, it is designed for manual operation only.
- Do not attempt to repair the chain. Replace it with new steel welded chain of the same size and strength.
- Lubricate the chain with good quality light oil or chain oil before use.
- Do not lubricate the internal braking surfaces. The brake must be kept dry.
- Make sure the load chain has no twists in the chain sprocket, guide, and the vertical hanging length. If there is a twist, disassemble and thread the chain through the guide and chain sprocket.
- Make sure the load chain is attached to the loose end pin before each use.
- Stand in the same plane or at the same angle as the wheel when pulling the hand chain. Do not pull at an oblique angle. Keep safe footing at all times.
- Do not lift loads over people. Do not allow anyone to walk under the load. Warning personnel before lifting a load.
- Do not use the hoist to lift people.
- Avoid off-center loading. Balance the weight evenly
- Pull the hand chain steadily and smoothly to prevent jerking or tangling.
- Seat the load firmly in the hook. Do not try to lift with the tip of the hook.
- Do not wrap the chain around the load. Balance the load weight evenly.
- Pull the lever handle steadily and smoothly to prevent jerking or tangling.
- Raise the load only enough to clear the support surface. Check for any malfunction or obstructions before continuing the lift.
- If the chain jams or the lever handle cannot be pulled any further, stop, inspect and correct the problem. Do not try to force the hoist.
- Do not leave the load suspended in the air.

- Do not lower the load beyond the usable chain length. Pulling the chain tight against the chain sprocket will cause damage.
- Do not allow the load to contact the hoist. This will block the swivel and may cause damage, twisted chains, or a jammed wheel.
- Perform periodic inspection and maintenance, replace all damaged or malfunctioning parts.
- Test the hoist function thoroughly in both with load or without load situation, before returning it to normal operation.
- Do not touch the selector switch when the hoist is in operation.

Thank you very much for selecting our manual hoist!

This instruction manual describes correct operating method to ensure prolonged service life. Please read and completely understand this manual before operating the Chain Block.

Always keep this manual at an appropriate place. If the manual or warning decal is missing, please contact your vender.

NOTE: All information reported herein is based on the data available at the time of printing. The factory reserves the right to modify its own products at any time without notice or incurring in any sanction. Please verify with the factory for possible updates.

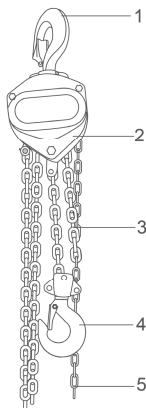
Preface

This Chain Block is a portable lifting device easily operated by hand chain. It's suitable for use in factories, mines, farms, construction sites, wharves, docks and warehouses for installation of equipment, as well as for loading and unloading goods. It's special advantageous for lifting work in open air grounds and places where no power supply is available. The manual hoist can be attached to a trolley of any type as traveling chain block. It is suitable to monorail overhead conveying system, hand traveling crane and jib crane.

INTENDED USE

The chain block has been designed for vertically lifting and lowering loads by hand under normal atmospheric conditions of work place. The block is prevalent in industrial settings. For construction and maintenance applications, lever tools may be used to secure loads during repair and positioning work. Special products such as spark-resistant hoist and trolley combinations are used in sensitive environments.

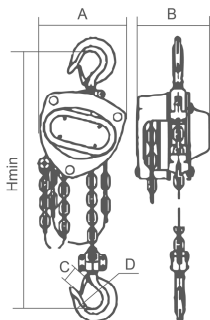
SPECIFICATIONS



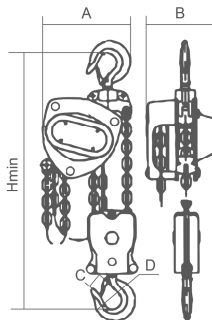
- 1. Top hook
- 2. Gear case
- 3. Load chain

- 4. Bottom hook
- 5. Hand chain

Main specification



HCBK0201 HCBK0202
HCBK0601 HCBK0602



HCBK0203 HCBK0205
HCBK0603 HCBK0605

Model No.	HC BK0201	HC BK0601	HC BK0202	HC BK0602
Capacity (kg)	1000	1000	2000	2000
Standard lift (m)	3	6	3	6
Load chain falls	1	1	1	1
Load chain (mm)	Φ 6×18	Φ 6×18	Φ 8×24	Φ 8×24
Effort force (N)	250	250	335	335
Dimensions (mm)	A	172	210	210
	B	151	175	175
	C	27	35	35
	D	40	50	50
	H min	376	470	470
Net weight (kg)	12.5	12.5	19.5	19.5

Model No.	HC BK0203	HC BK0603	HC BK0205	HC BK0605
Capacity (kg)	3000	3000	5000	5000
Standard lift (m)	3	6	3	6
Load chain falls	2	2	2	2
Load chain (mm)	Φ 7×21	Φ 7×21	Φ 9×27	Φ 9×27
Effort force (N)	290	290	360	360
Dimensions (mm)	A	230	280	280
	B	176	189	189
	C	39	45	45
	D	55	65	65
	H min	565	688	688
Net weight (kg)	29	29	41.3	41.3

OPERATION PICTURE

A1



Correct slinging: the coincides with the axle of the hook.

A2



A supporting structure or the sling is set on an improper point of the hook.

A3



Too wide slinging angle, it should be within 60 degrees.

A4



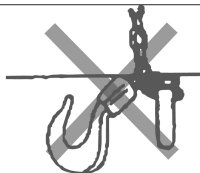
The safety latch doesn't properly function.

A5



Only the tip of hook cannot bear a load.

B



The chain which isn't twisted shows welded portions in the same direction.

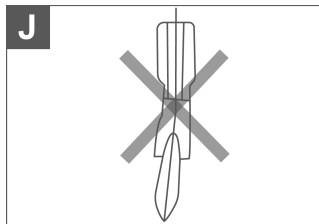
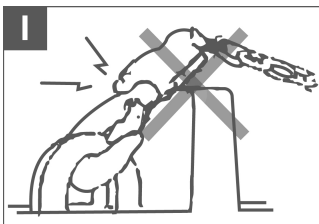
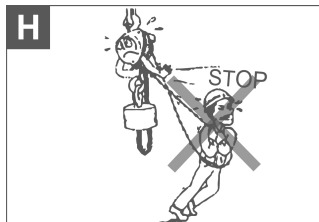
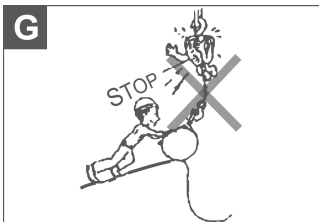
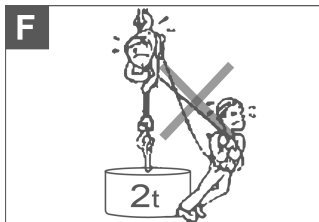
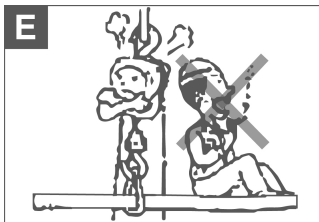
C



D



OPERATION PICTURE



OPERATION

Installation and operation

Installation the support (structure such as buildings) on which the hoist body is to bear 4 times of the rated load.

1. Proper handling and cautions singling method

- 1) How to apply a load to the hook incorrect singling, avoid the examples below: (see Figure A)
- 2) Never wind a load chain directly around a load regardless of its weight. It is quite dangerous, since the load chain may be broken. (see Figure C)
It is dangerous to wind the load chain around the hook of a chassis etc. because the strength of the chain will be reduced to 1/3 to 1/5 of the normal value. (see Figure B)
- 3) The load chain twisted should not be loaded. As the bearing capacity of the chain will be reduced in a twisted state. Be sure to bring the load chain into straight before applying a load. (see Figure D)
- 4) During operation, don't get on a load to be lifted and don't stay under a load lifted. It is prohibited by law to get on a load lifted by the chain hoist. (see Figure E)
- 5) Do not apply an overload to the chain hoist, that is, do not apply a load exceeding the number of tons (rated load) indicated on the nameplate. (see Figure F)
- 6) Do not give an impact to the chain hoist. Severe accident may happen, if a load suddenly falls regardless of the height and gives a shock to the chain hoist. (see Figure G)
- 7) Do not perform over-winding (see Figure H)
- 8) Do not apply a bending force to the hook of the chain hoist. Such handling ways as shown in Figure I are very dangerous and should be absolutely avoided. (see Figure I)
- 9) The hook clearly deformed as shown in Figure J should be scrapped and exchanged with a new and genuine one. (see Figure J)
- 10) Notice about the manipulation of the hand chain, it should be avoided that the hand chain will be abruptly jammed when it is manipulated with or without a load or a load is lifted by means of another power. Otherwise, the hand chain will be partially deformed or damaged.

Inspection and maintenance

1. Daily inspection

- For daily operation, be sure to carry out the following check prior to operation.
 - In case of any abnormality, stop operating the hoisting until and take proper counter-measure by a specialist possessing enough knowledge on the unit or by a dealer of our products.
 - Do not make continuous running under abnormal condition as it is very dangerous and might lead to an severe accident.
- 1) Check if the end of the load chain without hook is fixed correctly. Check also if the chain stopper pin is not deformed or rotates smoothly.
 - 2) Are firm connections made between the top hook and the hoist body, the body and the load chain, and the load chain and the bottom hook respectively?
 - 3) Are visually no deformations of the top and bottom hooks noticed?
 - 4) Are no parts missing? Are no severely deformed portions noticed?
 - 5) Is the load chain well lubricated? Does it show any remarkable damages or deformations?
 - 6) Check whether the hand chain runs easily and smoothly on operation and smooth ratchet sound is heard during lifting.

Warning

Immediately stop operating the chain hoist and make repair of it, when such abnormalities as mentioned above (item 1 through 6) are found.

2. Periodic inspection

In case of troubles and/or any abnormality, stop operating the hoisting unit and take proper counter-measures by a specialist possessing enough knowledge on the unit or by a dealer of our products. It may happen that the load chain and the hooks fall in a dangerous state even if they show no remarkable changes in their function. It is therefore indispensable to make a periodic measuring check based on "the Methods for Maintenance and Inspection" as stated below. The periodic inspection should be normally made once a month. Exchange damaged or deformed parts with new ones.

The Methods for Maintenance and Inspection

- Do not use parts and the chain hoist over the limit of use.
- If any wearing parts are found in excess of the standard limit of use as stated below in carrying out the daily and periodic voluntary inspections, they should

be replaced for sure. Daily and periodic voluntary inspections, they should be replaced for use.

- When replacing load chains, be sure to use the load chain manufactured by us. Load chains manufactured by any others are not applicable

1. Checking the load chain and its lifetime

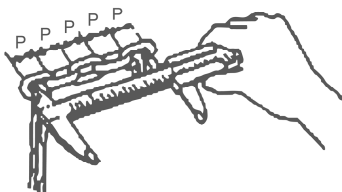
The load chain begins to be broken from even one piece of weak chain links and thus it is important to carefully inspect the whole chain. For checking the elongation, measure the inner length of 5 links with a Vernier caliper as the above sketch shows. It is normally sufficient to check the links in a distance of approx. Every 50cm but check them by making the measuring distance shorter when the elongation of the chain is close to the limitation for use stated in Table 2 so that none of them will exceed the limitation for use.

Exchange the load chain with a new one which is found by visual check to be clearly influenced by higher temperatures or to be clearly deformed. Furthermore, do not weld a load chain to the original one by users themselves.

Limitation of the deformed load chain for use (Table 2)

Table 2

Rated load (kg)	Link diameter P×5 (new chain) (mm)	Limitation of P×5 for use (mm)
250	Ø4×60	61.2
500	Ø5×75	76.5
1000	Ø6×80	81.6
1500	Ø7×105	107
2000	Ø8×120	122
3000	Ø10×140	142.8
3000	Ø7×105	107
5000	Ø10×150	152
7500		
10000		
15000		
20000	Ø10×150	152



2. Checking the hook and its lifetime

When the dimension shown by "A" in the sketch has exceeded the limitation as the limitation of the deformed hook for use (Table 3).

Table 3

Rated load (kg)	Value A on new hook (mm)	Limit value A (mm)
250	21	22
500	23	24.15
1000	27	28.35
1500	33	34.65
2000	35	40.9
3000	39	47.7
5000	45	47.25
7500	54	56.7
10000	54	56.7
15000	82	84
20000	82	84

The hook should be replaced with a new genuine one. Do not forget to set the split pin on re-assembling the stop bolt.



MAINTENANCE&MALFUNCTIONS

Criteria for Using and Checking Chain Block

1. Criteria for use

- 1) Make sure that the class of the chain hoist is fit for conditions of its use.
- 2) The chain hoist should not be used to lift a load exceeding the rated load except for testing purpose.
- 3) Do not use a bottom hook which is not equipped with a safety latch or of which latch has no safety effect.
- 4) Do not use chain block on which chain stoppers are missing.
- 5) Do not wind the load chain directly around a load.
- 6) Do not quickly pull the hand chain on lifting and lowering operation.
- 7) Do not perform over-lifting and over-lowering.
- 8) Avoid an operation of so-called earth lifting.
- 9) Before operation check the load chain for twisting or tangling. The chain hoist
- 10) Can be used only after such twisting and tangling are corrected.
- 11) When the chain hoist is used in special conditions such as lower or higher temperatures, or corrosive atmosphere, etc., consult us before use.
- 12) The chain hoist should not be modified by the users.
- 13) Do not leave the chain hoist for many hours with a load suspended.
- 14) Make a routine inspection before use.
- 15) Immediately stop operating the chain hoist when an abnormally big pulling for the hand chain is required.
- 16) Apply a lubricant to the load chain before use.
- 17) Use the chain hoist, applying lubricants to its gears, bearings, which are liable to wear.
- 18) Consult us whenever special usage of the chain hoist is required.

2. Criteria for check

- 1) Use the chain hoist by checking it daily and periodically.
- 2) Refer to Table 4 which gives check items, check methods and check criteria to be used in the daily check. However, items other than those specified should be also checked, when the checked, when the chain hoist is frequently used, or in special cases.
- 3) When the chain hoist is repaired, check it on periodic check items after its repair, and make notes.



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