



**Double Lever Blocks** HSH-A SERIES 3/4 - 6 TON.



**CONSTRUCTION**

HSH-A Series Double Lever Block is equipped with a transmission mechanism of two - step gears and with a spring clutch system. Its main principle of operation is described as follows.

• Use of Free Gearing System

When hooking nothing, the selector lever (40) is set to the "C" (central) position. The spring sets the clutch disengaged, and allowing the load chain to be pulled easily and the lower hook to be adjusted at any desired position.

• Lifting Load

Set the selector lever to "Up" position and turn right the lever handle to press the friction plates (20) and ratchet disk (13) tightly against the brake seat (33), thus causing these parts to rotate in unison. Then drive the driving shaft (11), disk gear (2), pinion shaft (4), splined gear (3), load chain and the lever handle to lift the load smoothly. (See Fig. 1).

**APPLICATION**

HSH - A Series Double Lever Block is a kind of highly efficient and versatile hand operated hoisting appliance, which is capable of being widely applied in shipbuilding, power plants, transport, construction-sites, mines, post and telecommunication for installing machines, lifting goods and dragging loads ect.. It is particularly used in the narrow places, the open air and overhead places for pulling and stretching work at any angle.

**FEATURES**

The main parts of HSH - A Double Series Lever Block are made of superior steel, which has the following characteristics in design and service:

1. Safe, reliable and durable in use.
2. Excellent performance and minimum maintenance.
3. Small volume, light weight and portable in size.
4. Light handpull and high efficiency.
5. Advanced structure and attractive appearance.

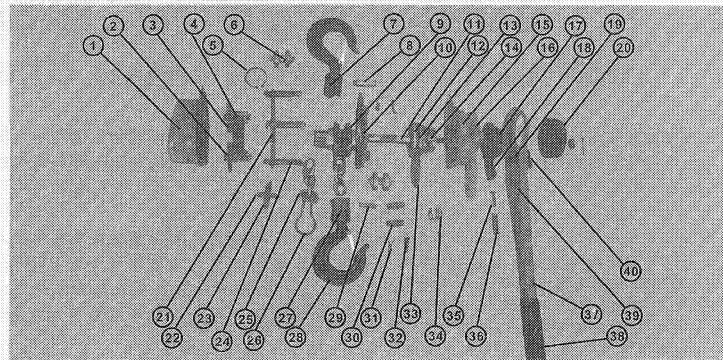
**OPERATION INSTRUCTIONS**

1. Do not overload.
2. Do not motorize - Lever block is designed for hand operation only.
3. All moving parts should always be kept well lubricated. Before operating, see that the various parts have no damage and idle motion is in good condition.
4. Before lifting, inspect the hook to see whether it is securely attached. Do not suspend a load at hook tip. Load chain must not be twisted to ensure safety.
5. Stop operating immediately in case the lever handle force exceeds that of normal operation. Check as follows:
  - a. Whether there is anything entangled with the load.
  - b. Whether there is any trouble with the parts of block.

**MAINTENANCE**

1. After use, clean off the dirt on the block, and grease its parts. Keep it in a dry place.
2. Maintenance and inspection should be made by skilled hand. Never allow any layman to disassemble or assemble the block.
3. When assembling align the "0" marks of two gears (2) as shown on Fig.(2) and Fig.(3).
4. While the lever handle (20) is pressing the friction plates (13) and the ratchet disk (33), the distance between the lever handle (20) and the ends of hexagon slotted nut should be controlled within 0.2mm - 0.5mm.
5. After cleaning and repairing, the lever block should be subjected to a no-load test and a heavy load test per ANSI B30.21 specifications to ensure reliability and safety in use. The lever block can be put into operation after it has been tested and found in good condition.

**Details of Spare Parts for HSH-A Series Double Lever Blocks**



1. Gear case	6. Guide roller	11. Driving shaft	16. Handle casing	21. Side plate B	26. Chain end link	31. Pawl spring	36. Chang-over spring
2. Disk gear	7. Top hook hold	12. Brake seat	17. Chang-over wheel	22. Stripper pin	27. Bottom hook block	32. Pawl	37. Lever handle
3. Splined gear	8. Top pin	13. Friction plate	18. Chang-over pawl	23. Stripper	28. Hook	33. Ratchet disk	38. Handle rubber grip
4. Pinion shaft	9. Chain sprocket	14. Female thread disk	19. Selector Lever pin	24. Stay bolt	29. Chain pin	34. Braks spring	39. Spring seat
5. Snap ring	10. Side plate A	15. Brake cover	20. Free Knob	25. Load chain	30. Ring	35. Spring shaft	40. Selector Lever