

NEW TOOLS AND SHOP EQUIPMENT

Only Descriptions of New and Interesting Machines, Tools or Appliances Can Be Published. No Mere Write-Up Can be Used.

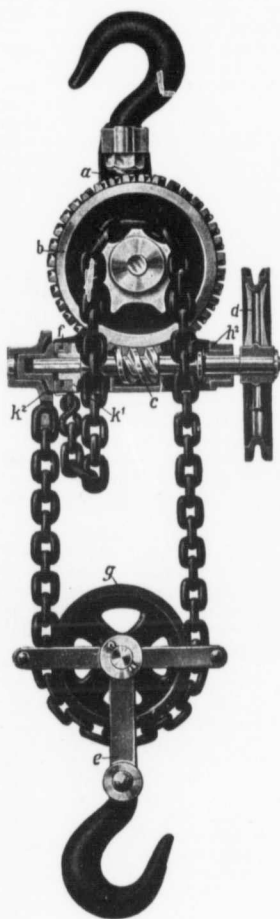


Fig. 1.

Atlas Worm Gear Chain Blocks

The accompanying illustrations show the construction of the Atlas worm gear chain blocks, which are equipped with an automatic brake. The features of this block as brought out in the following description should be of great interest to all users of chain blocks. The action of the brake is of chief interest. This is shown in Fig. 3.

In the brake action (Fig. 3), the worm spindle is fitted with the ratchet wheel "f," which is driven by a friction washer, between collar "k 1" and ratchet wheel "f." When the load is being lifted, the worm is pressed toward the hand chain wheel and the brake revolves loosely on the end of the shaft, but when the lifting ceases, the friction brake is thrown into action automatically. In lower-

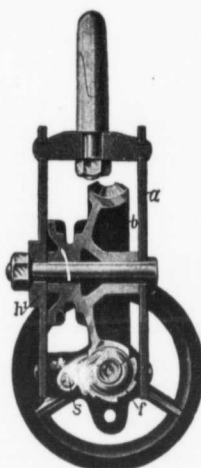


Fig. 2.

ing, the worm is pressed toward the bearing and under the reverse action of the worm-wheel the pressure between "k 1" and "k 2" increases. This arrangement secures a fric-

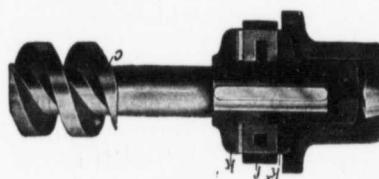


Fig. 3.

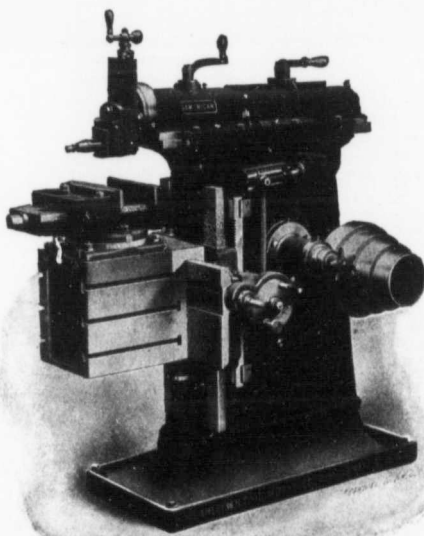
insuring a degree of safety absolutely necessary in hoisting appliances.

All blocks are tested before leaving the factory to at least 50 per cent. above their normal capacity. Moderate overloading, therefore, which frequently occurs when the block is in inexperienced hands, will not cause break downs.

These blocks are made by Schuchardt & Schutte, New York, and sold in Canada from the firm's offices at 91 Youville Sq., Montreal.

New Single-Geared Crank Shaper

Accompanying is an illustration of the new single-geared crank shaper just placed on the market by the American Tool Works Co.,



New Single-Geared Crank Shaper.

tion lowering gear, but the friction does not retard the raising of the load and hence the block works with the greatest ease.

The principal parts of Atlas chain blocks are constructed of steel and wrought iron,

Cincinnati, O. This machine was designed for heavy manufacturing purposes and the use of high speed steels. The column, the base, the ram, the head and other parts are of heavy and strong design. The cross feed