

The **NORDBERG SPIKE HAMMER**

Saves Time and Labor — Drives Spikes Straight

The Nordberg Spike Hammer affords a fast, easy method for driving spikes. Like the other power driven maintenance tools developed by Nordberg, this machine also has the advantages of saving time, reducing man-power and doing a better job than is possible with hand methods.

Drives Spikes Straight

In addition to these advantages the outstanding feature of the Spike Hammer is that spikes are driven straight and vertical to the tie. They must be driven straight or not at all. From the illustrations in figures 1, 2 and 3 it can readily be seen how straight driving is accomplished. Spikes are held vertically in the spike holder until the spike is partially driven. Then the spike holder is released and the driving completed. Starting the spike and releasing the spike from the holder takes place during the continuous driving action.

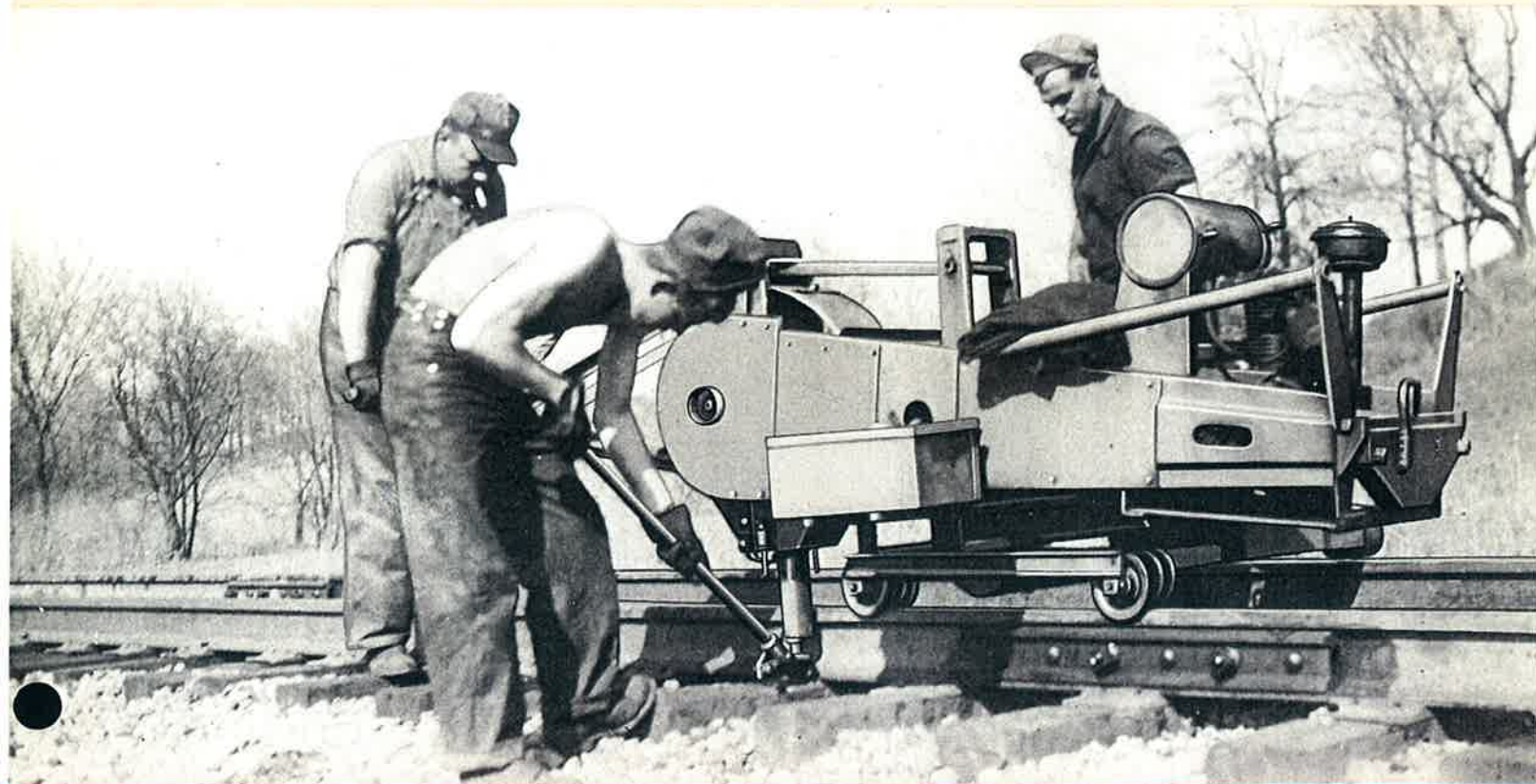
Another feature of the Spike Hammer is that every spike is driven to the correct depth and cannot be

over-driven with resulting damage to the base of the rail.

Easily Operated

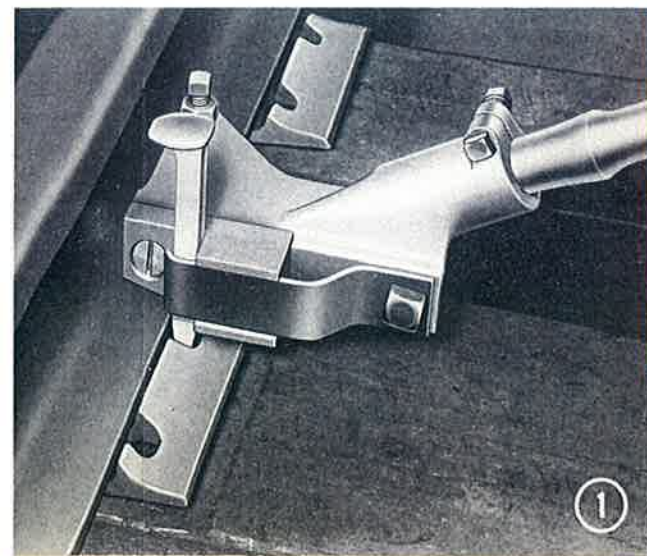
Three men are required, one for operating the machine and two helpers to hold the spikes in position until they are started. These two helpers work at either side of the rail. As one helper holds the spike being driven on the inside of the rail, the helper on the outside sets his spike ready for driving. After the inside spike has been driven home, the operator raises the operating handle slightly and swings the machine to bring the hammer in contact with the spike on the outside of the rail. After this spike has been driven, the operator pushes the machine to the next tie and the process is repeated. One machine with a properly organized crew can drive about 800 spikes an hour, 400 on either side of the rail. Driving spikes with the Nordberg Spike Hammer is one of the easiest jobs on the rail laying gang. Very little effort is required on the part of the operator and the vibration of the driving action is not transmitted to the operator's hands.

A Nordberg Spike Hammer will drive about 800 spikes an hour.

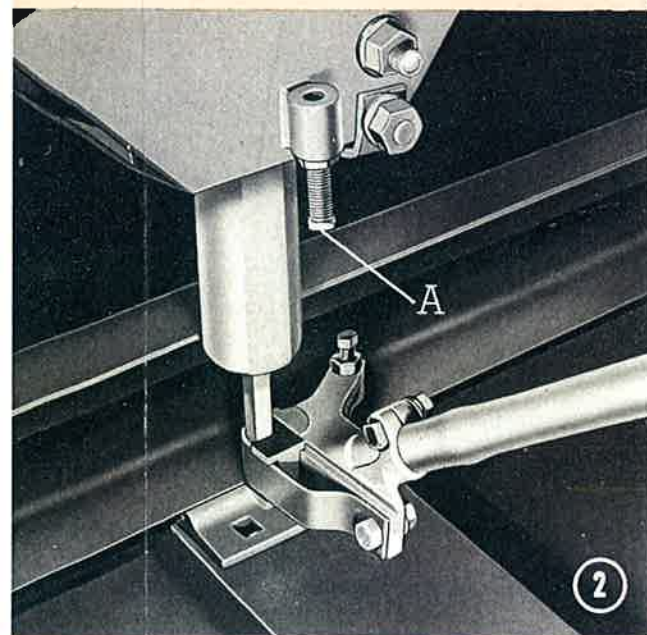


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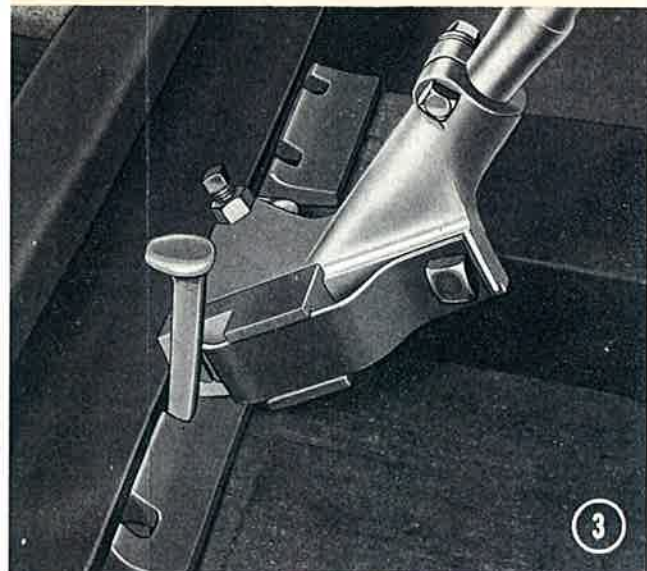
NORDBERG MFG. CO., MILWAUKEE, WIS.



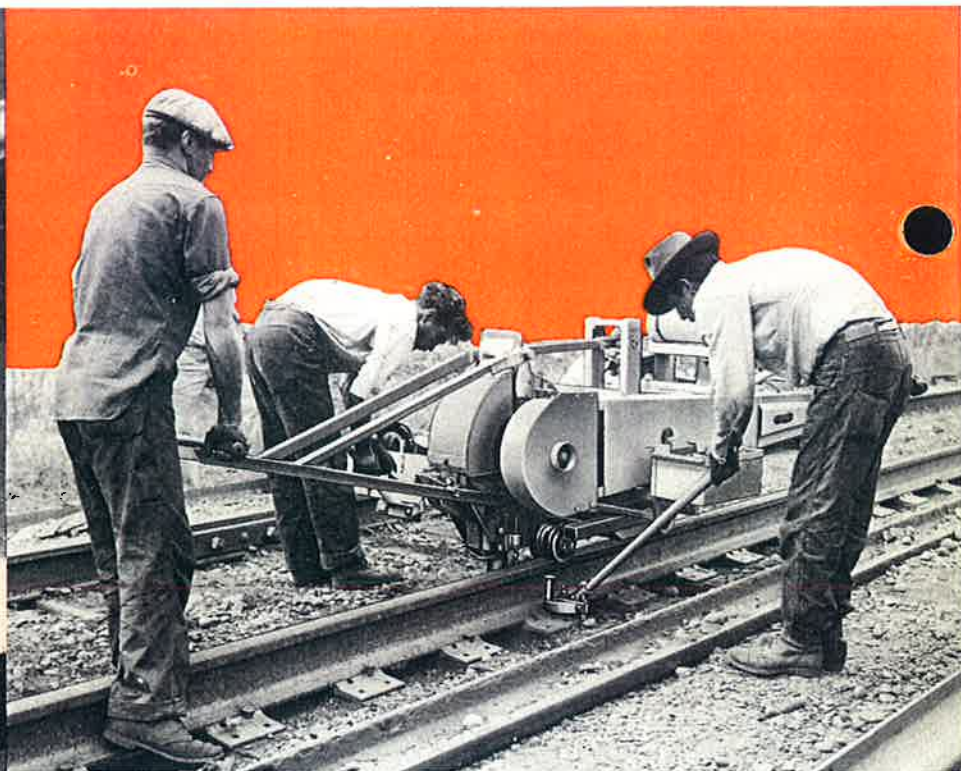
A spring clip grips the spike in the holder, keeping it vertical to the tie.



Here the spike is partially driven. When the adjustable stop screws "A" at either side of the anvil guide contact the ball of the rail, further driving action is stopped.



The handle has been raised releasing the spike. The driving action is then completed.



The helper at the inside of the rail is holding the spike being driven while the helper at the outside is placing his spike in position when the driving mechanism is shifted over to drive the spike on the outside of the rail.

The Spike Hammer also has the advantage of safety since it eliminates the possibility of accidents frequently associated with hand driving.

Spikes Easily Set

Spike holders are of light weight construction and require minimum effort to set and release the spike. The spike supply is carried in metal baskets at either side of the machine. It is not necessary to stoop and pick up spikes distributed along the track.

General Description

The Spike Hammer is a self contained unit powered by a single cylinder, air cooled gasoline engine. It consists essentially of a beam supported by a carriage riding on flanged rollers on one rail with a stabilizing bar to the other rail. The beam is balanced with the driving mechanism at one end, the engine at the other. This beam is pivoted at its center so that it can be rotated to drive spikes to the inside and outside of the rail. Very little effort is required either to rotate the beam or to move the machine along the track in either direction as the driving progresses. The driving mechanism consists of a rotating spider, belt driven from the engine and in which is mounted two identical cylindrically shaped blocks of steel, one being used as a hammer for driving, the other serving as a balance weight. Below the spider is the driving anvil, so located that the hammer in its circular path, strikes the anvil to give it an upward and downward sliding action. When the anvil is pushed down onto the head of the spike, the anvil moves upward into the path of the rotating hammer and the driving action at the rate of 1100 blows per minute is thus transmitted to the spike.

Suitable handles are provided for lifting the machine on and off the track.