

The **NORDBERG GAGING TEAM**

A Winner on Any

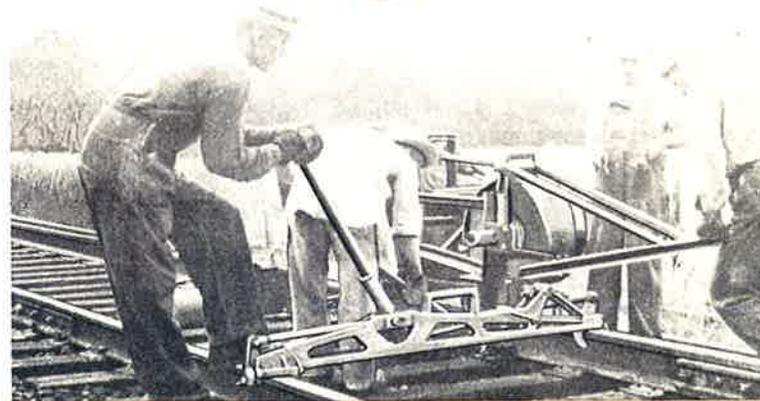
Rail-Laying Job

● Here is another Nordberg development which takes its place with other contributions made by Nordberg in mechanizing the job of laying rail. The economy, improved quality and increased production made possible by such Nordberg machines as the Spike Puller, Tie Adzer, Power Wrench and Spike Hammer are accepted facts in the field of track maintenance. The Spike Hammer which drives all spikes straight and at a big saving in labor over hand driving has made possible the mechanization of another phase of the rail laying operation.

Hand gaging has always been slow, laborious work. Because spikes are often bent when driven by hand, and also because the rail is often tilted when held against a hand gage by means of a lining bar placed under its base, the resulting track gage has not been as accurate as desired. Recognizing these facts Nordberg has perfected the *Trakgager* which, when used with the *Nordberg Spike Hammer*, forms the *Nordberg Gaging Team*.

The team consists of one man operating the *Trakgager*, one man operating the *Spike Hammer*, and two men with *Spike Holders* placing the spikes for driving. These four men will gage as much track as three teams of 3 men each gaging by hand. Thus, the *Nordberg Gaging Team* of four men will replace a hand gaging crew of nine men.

Gage produced by the *Nordberg Gaging Team* is exceptionally accurate. Variation from correct gage is much less than is possible with other methods. This is because of the sliding action of the fork and also because the rail is securely held while it is being spiked. Accurate gage is a "must" for good riding track.



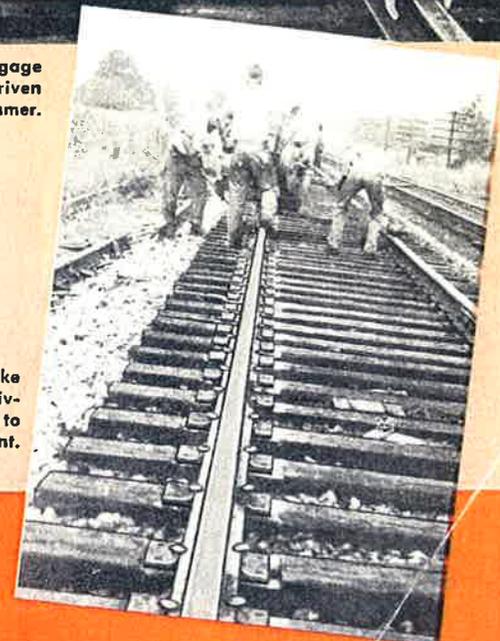
A four man Nordberg Gaging Team consisting of *Trakgager* operator, *Spike Hammer* operator and two men with *Spike Holders* placing spikes for driving.



Trakgager holds rail in gage while gage spikes are driven with *Nordberg Spike Hammer*.

A *Nordberg Gaging Team* in the foreground followed by men hand spiking at joints and a *Nordberg Spike Hammer* doing the final spiking.

View of rail back of *Spike Hammer* doing the final driving. All spikes are driven to same depth — none are bent.



NORDBERG MFG. CO., Milwaukee 7, Wisconsin

The Famous Line of Nordberg Track Maintenance Machinery
SPIKE HAMMER • POWER WRENCH • SPIKE PULLER • TIE ADZER
POWER JACK • RAIL DRILL • RAIL GRINDERS • TRACK SHIFTER

Greater Accuracy with Big Saving in Man Hours

The Trakgager is a lever system in an aluminum frame. It firmly grips the head of the fully spiked rail and moves the rail being spiked to correct gage by means of a *fork* acting against the web near the neutral axis of the rail section. The fork *slides* the rail and the tie plates on which the rail rests, instead of *tilting* the rail as is the case when lining bars are used. The Trakgager holds the track to desired gage while the Spike Hammer drives the gage spikes. The device is a simply operated tool weighing 47 pounds. It is readily adjusted in the range between 4' 8 $\frac{1}{4}$ " and 4' 8 $\frac{3}{4}$ " and can be locked to the desired gage.

In action, the Nordberg Gaging Team performs the gaging operation as follows:

1. The Spike Hammer is worked in reverse, that is, the operator pulls the Hammer along instead of pushing it.
2. The Trakgager is placed across the rails, above the tie ahead of the one to be spiked.
3. The man handling the Trakgager squares it across the track and pushes the handle toward the rail being spiked. This moves the rail outward and permits the gage stops to fall inside the rail. Red Gage Stop Indicators drop when the gage stops are inside the rails and the operator then pulls the handle back or away from the rail being gaged so that the outside jaw of the *fork* moves the rail inward, firmly holding the rail to desired gage.
4. The man handling the Trakgager continues to apply pressure to the handle and thus holds the track to correct gage, while two helpers using Spike Holders place the spikes for driving by the Spike Hammer.
5. When spikes are driven the Team moves to the next point to be gaged.

