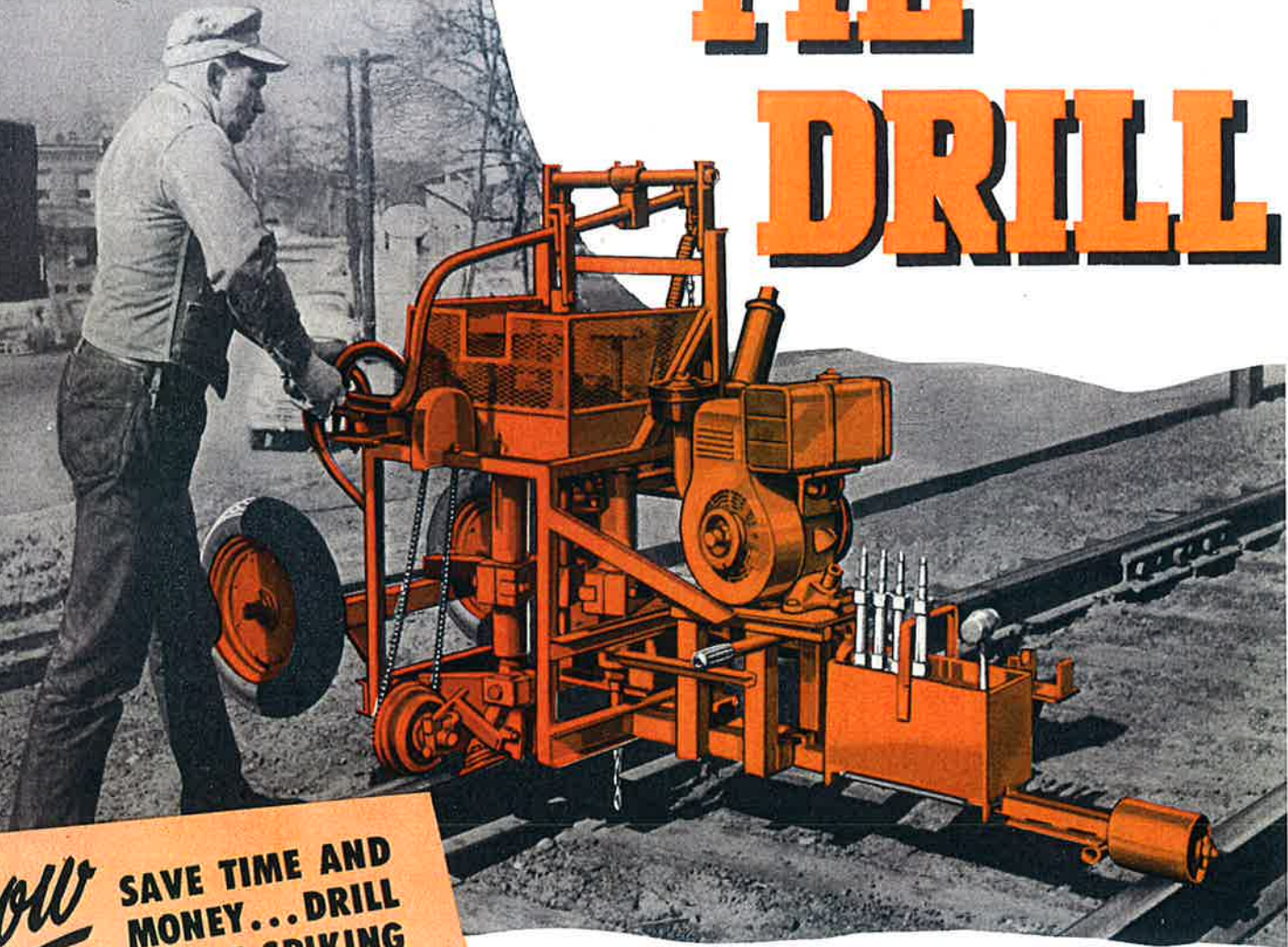


# NORDBERG TIE DRILL



**Now** SAVE TIME AND MONEY... DRILL TIES BEFORE SPIKING

Look at these advantages of pre-drilling ties . . .

- Tie life is considerably extended.
- Driving spikes is quicker, easier, and cheaper.
- Spikes are driven straighter and have greater holding power.

The Nordberg Tie Drill is outstanding . . . with two spindles, it drills two holes at once and it is by far the fastest tie drill on the market. It is operated entirely by one man who can spot and drill 48 holes in the 24 ties of one rail length in just 2½ minutes. That's less than three seconds to drill each hole . . . and it doesn't matter whether the holes are being drilled for rail holding spikes or plate fastening spikes. With the Nordberg Tie Drill, field drilling costs can be cut about 75%. Speedy drilling is assured with a Nordberg

Fast, accurate, and versatile machine **CUTS COSTS OF TIE DRILLING, SPEEDS RAIL LAYING, AND LENGTHENS TIE LIFE**

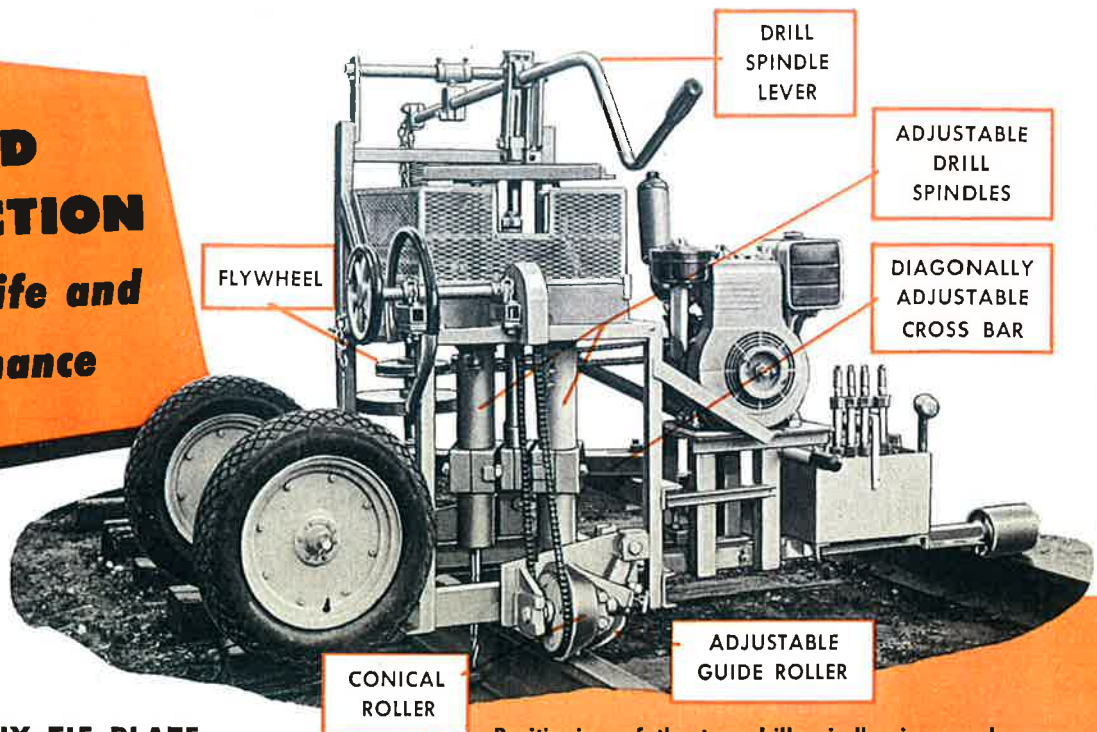
Tie Drill because the drills, powered by a 5¼ HP air-cooled engine, turn at 1600 to 1700 RPM.

**ALWAYS DRILLS HOLES AT RIGHT ANGLES TO TIE**

Even with its speed, the Nordberg Tie Drill will always drill holes perpendicular to the tie — whether the rails are the same height or not.



**RUGGED  
CONSTRUCTION**  
*assures long life and  
low maintenance*



FLYWHEEL

DRILL  
SPINDLE  
LEVER

ADJUSTABLE  
DRILL  
SPINDLES

DIAGONALLY  
ADJUSTABLE  
CROSS BAR

CONICAL  
ROLLER

ADJUSTABLE  
GUIDE ROLLER

### ADJUSTABLE TO FIT ANY TIE PLATE

Drilling is done through the tie plate holes. The spindles are adjustable to fit any tie plate, and once they are set, the operator moves along the track sighting and spotting only one of the two drills; the other is spotted automatically. The depth to which the holes will be drilled can be set and maintained. The Nordberg Tie Drill will also drill the rail spike holes at joints except where track bolts interfere. To clear obstructions, the drills can be raised above the top of the rail quickly by releasing a snap lock.

### SPECIAL FEATURES SPEED SETTING AND CHANGING DRILLS

For real convenience, each machine is furnished with four spare drills and chucks and a tool basket equipped with special pockets for carrying them. To facilitate speed, all the drills can be pre-set in the chucks to drill the depth of hole desired. Drills are set with the aid of a fixture mounted on the tool basket. It is a very simple matter to replace dulled drill bits because the drill bit and chuck are replaced in the spindle as one unit . . . in 10 to 15 seconds.

**NORDBERG MFG. CO.**  
MILWAUKEE 1, WISCONSIN

Positioning of the two drill spindles is easy because they are adjustable on a cross bar which, in turn, is adjustable diagonally. Shown here, too, is the flywheel which provides a smoother, more positive drive to the spindles. To drill holes, operator uses merely one hand to press down on drill spindle lever. The spindles are lubricated by sight feed oilers. The conical rollers and adjustable guide rollers on each end of the machine maintain position of drilled holes in relation to the gage line of the rail.

Operator uses hand wheel — chain connected to track roller — for quick and accurate spotting. The drill is always automatically spotted in relation to the gage side of the rail. Operator spots in one direction only — along the rail.



Two men can quickly set the Nordberg Tie Drill on or off the track on two pneumatic rubber-tired wheels, which can be lowered for that purpose. The complete machine weighs 775 pounds.



Use Nordberg "Mechanical Muscles" to do a better, faster maintenance job at lower cost.

ADZING MACHINE • CRIBEX® • BALLASTEX® • SCREENEX® • GANDY-TIE PULLER AND INSERTER • POWER JACK  
POWER WRENCH • RAIL DRILL • RAIL GRINDERS • SPIKE PULLER • TRACK SHIFTER • TIE DRILL • DSL YARD CLEANER  
DUN-RITE GAGING MACHINE • SPIKE HAMMER



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