

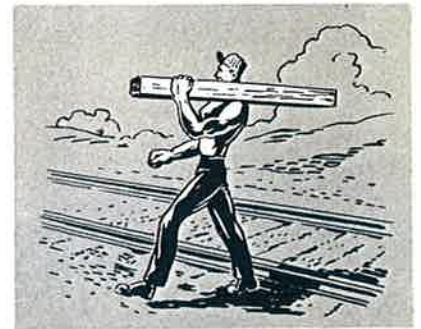
Again... Here's Another **NORDBERG** *First*



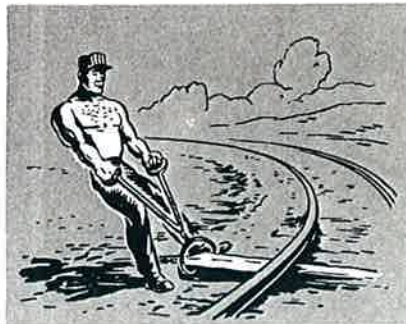
NORDBERG

GANDY

*"mechanical
muscles" for*



HAULING MATERIAL



REMOVING TIES



INSERTING TIES



MR

BULLETIN
201

*Look to
NORDBERG*

... for continually improved **TRACK MAINTENANCE MACHINERY**
to do a Better, Faster Maintenance Job at Lower Cost

NORDBERG MFG. CO., Milwaukee, Wisconsin

The **NORDBERG** **GANDY**

What is it?

● The Gandy is a multi-purpose machine; a Tie Puller, Tie Inserter and a Light Material Handling Crane. It is designed to perform these functions primarily in connection with out-of-face raising and tie renewal. It is used to pull out the old ties, pull in the new ties, pile or load the old ties, set machines weighing less than a ton on or off the track, and distribute new ties, including hauling them, to the location of work. Two men operate the Gandy which, because of its "mechanical muscles," removes the physical labor from each job and makes possible uniform production all day.

The Gandy is a welded structural frame mounted on four 16" flanged wheels. A 5 HP air cooled gasoline engine with hydraulic coupling drives the propulsion mechanism and a winch. The Gandy is self propelled in either direction at speeds up to 12 miles an hour. The frame carries a 17 ft. telescoping boom which is raised or lowered mechanically and swung manually in a 180° arc from a position over the center of the track in front, around to a position over the center of the track in the rear of the machine.

The **GANDY** AS A TIE PULLER



This photo shows the Gandy used to remove ties. The boom is lowered to a horizontal position and a pair of special tie tongs attached to the free end of the cable grabs the end of the tie and pulls it out of the track. The operator spots the machine so that the boom is over the tie to be removed. A brake and thrust member, controlled by the operator, holds the Gandy securely in position on the track while the tie is pulled.



The **GANDY** AS A TIE INSERTER



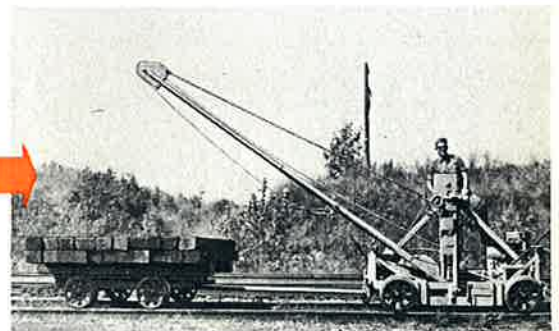
To insert ties, the boom is elevated about 45° as shown. An easily inserted pulley is placed in position in the frame. Then the free end of the cable is passed around this pulley, out over the head of the rail and attached to a special inserting tong. The operator spots the Gandy so the boom is over the new tie to be inserted as his helper places the special tong over the end of the tie. As the winch winds the cable in, the tie is pulled in and under the rails. The special tong permits the helper to control the direction and inclination of the tie.



The **GANDY** AS A MATERIAL HANDLING CRANE



The Gandy's telescoping boom can be adjusted to desired angle and length. It is manually swung with little effort because the boom is mounted on a vertical mast, supported at top and bottom in heavy ball bearings. Ties can be placed on outriggers on the engine side of the machine as counterweight. With the machine counterweighted with two ties and the boom at a 45° angle the Gandy can move along the track carrying a 700 pound load. With the boom telescoped to 10 ft. 4 in., the Gandy will carry 1000 pounds.



For loads of 1000 to 2000 pounds the Gandy is clamped to the track with a unique Lever-Setoff Roller-Clamp device. The close-up photo shows this device. Raising the Lever moves the Brackets, mounted on each corner of the frame, downward. When the Gandy is removed from the track, setoff rails are placed under the Brackets and across the track. Movement of the Lever raises the Gandy, carrying it on the Bracket Rollers which engage the setoff rails, and the Gandy is pushed into the clear. When handling heavy loads the same device is used with the Brackets contacting the underside of the head of the rail. A turntable is mounted on the underside of the frame for turning the Gandy to work on the opposite side of the track.



SPECIFICATIONS

Weight — 2300 lbs.
Draw bar pull — 500 lbs.
Boom length fully extended, — 17 ft.
Boom length fully telescoped, — 10 ft. 4 in.
Carrying capacity, full boom, no counterweight, — 400 lbs.
Carrying capacity, short boom and counterweight, — 1000 lbs.
Lifting capacity clamped to track, — 2000 lbs.