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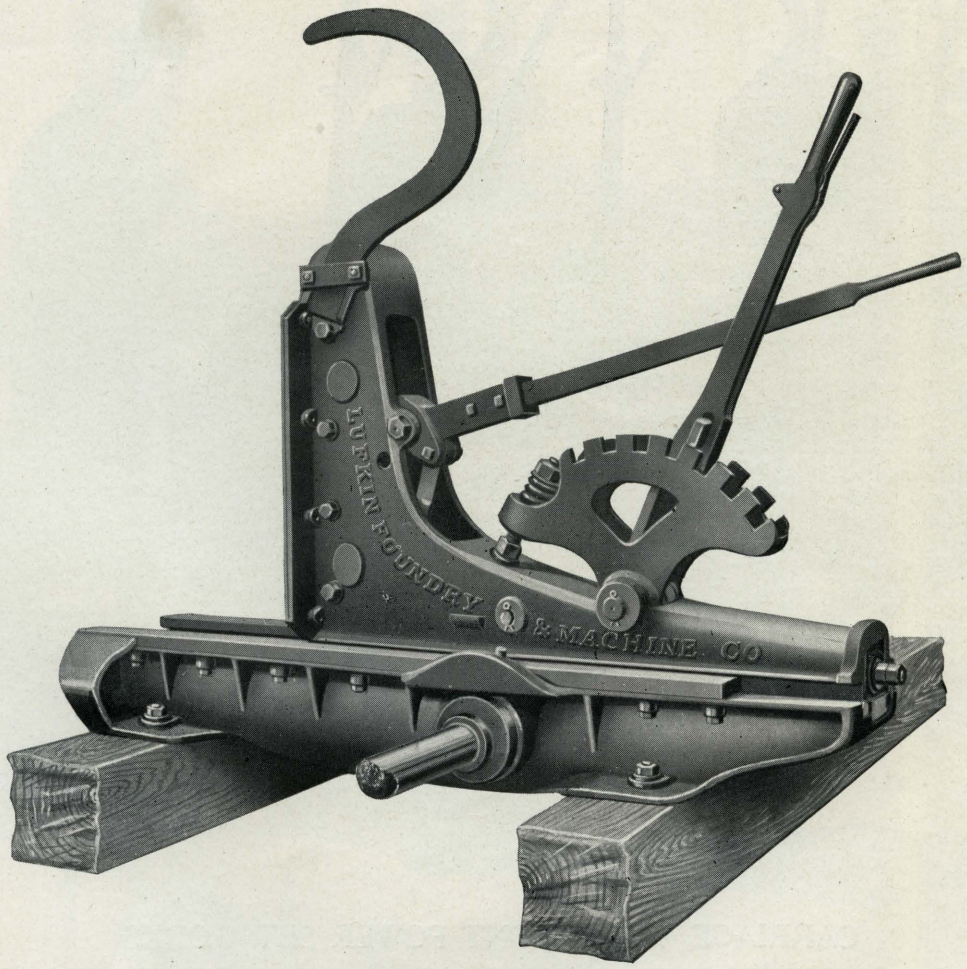
BULLETIN No. 8

LUFKIN FOUNDRY & MACHINE COMPANY

LUFKIN

Improved Steel Carriages

With Trout Power Set or Hand Set Works

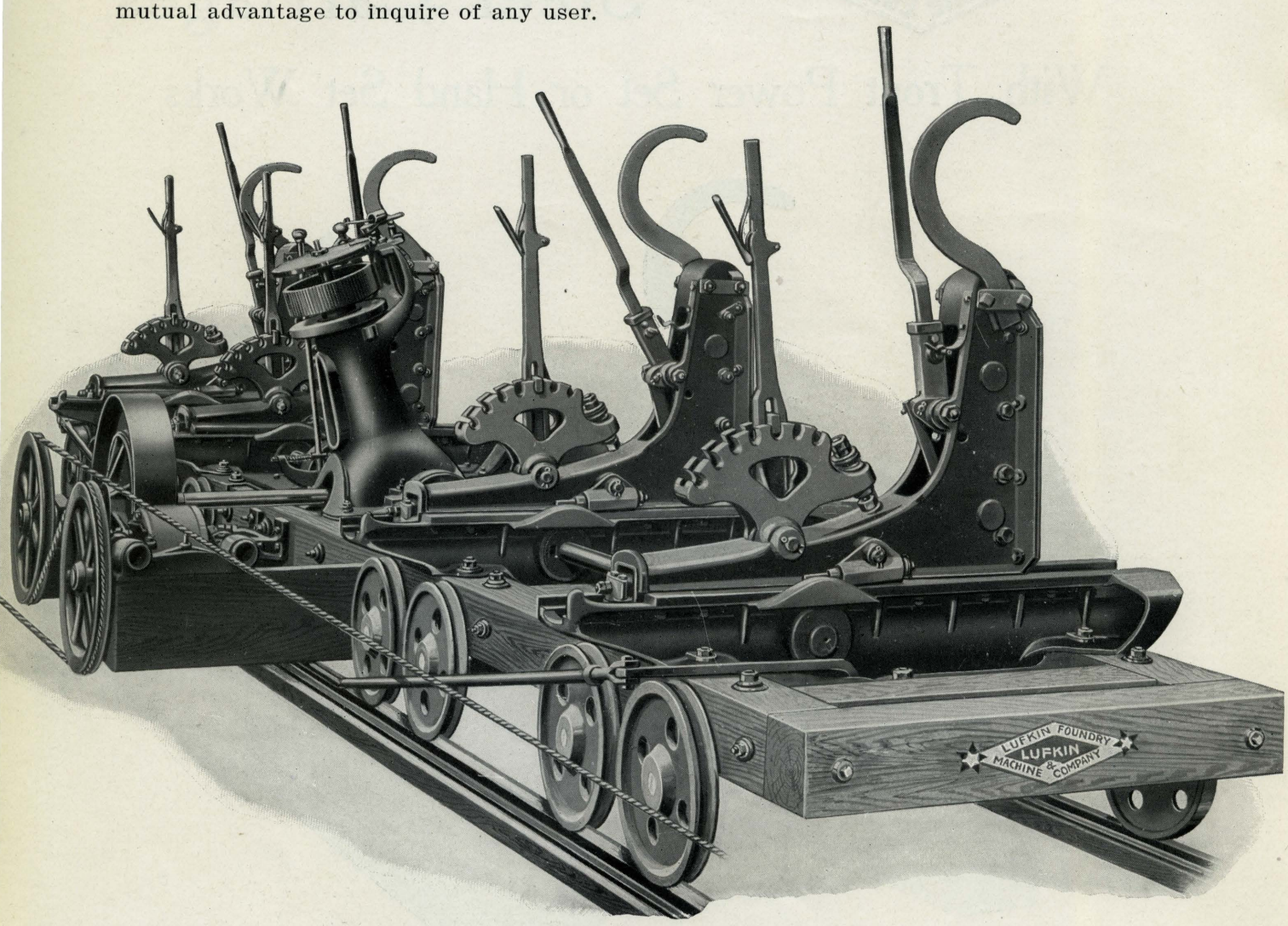


Our Blocks and Knees are made from genuine cast steel and are guaranteed agains breakage for three years. Racks and Pinions are machine cut from solid steel. We guarantee absolute accuracy in setting. It will pay you to investigate the merits of these Carriages—see following description.

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General Description

The accompanying illustrations represent what we believe is the acme of perfection in saw mill carriages. We now have a large number in successful operation, and if you are considering the purchase of a new carriage we are sure it will be to our mutual advantage to inquire of any user.



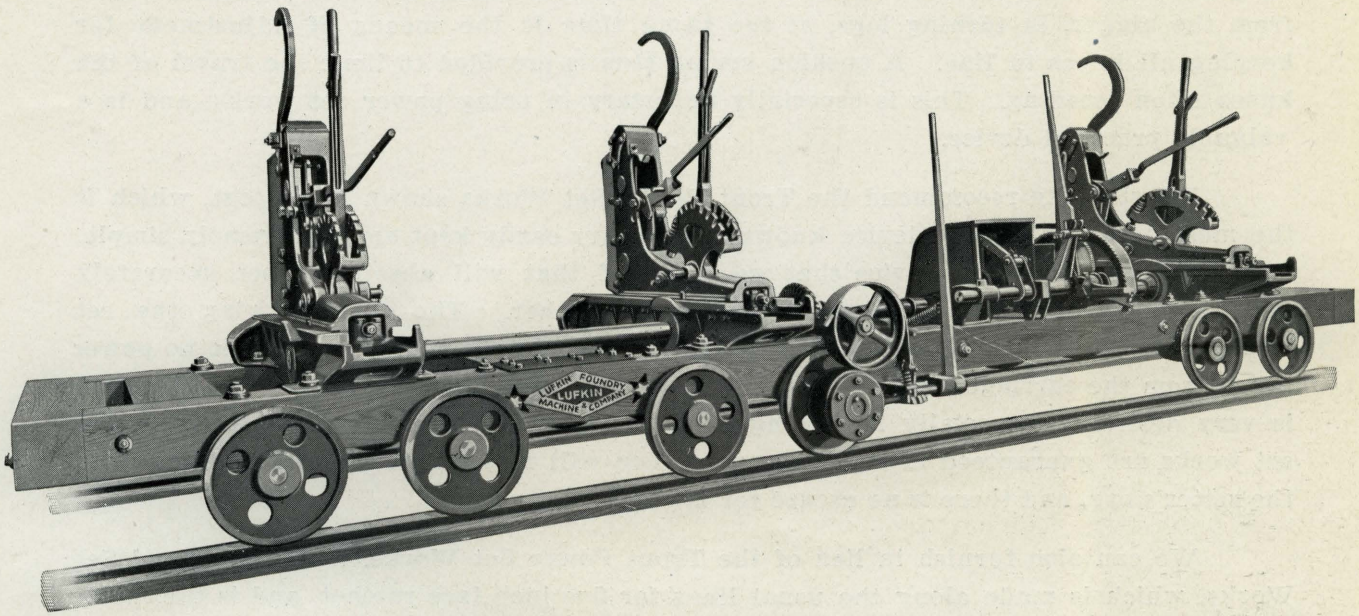
CARRIAGE WITH FRONT POWER SET WORKS

These carriages are built to standard sizes, such that will fit the track centers of any of the reputable make of carriages. They are also the same general style of other makes with no radical differences, but with a number of practical improvements suggested by actual operating mill managers, who are leaders in their line, and are looking for the best results, both in accuracy of the setting and reducing the cost of maintenance and expensive repairs.

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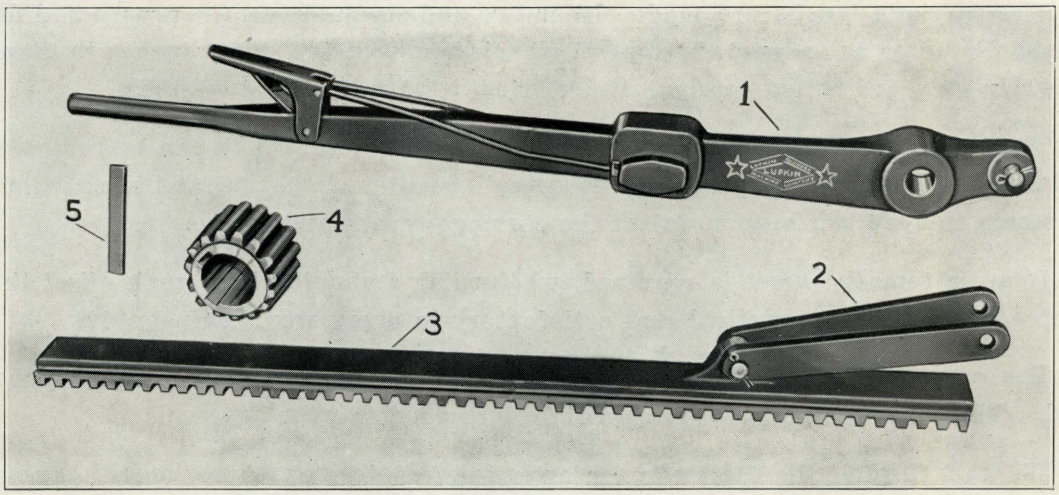
In designing our carriage we have carefully considered these points and can offer you a substantial machine, built to stand the severest service, capable of accurately setting for any thickness with ease of operation, and the minimum cost of up-keep.

All knees and blocks are of genuine **cast steel,** guaranteed against breakage for three years, all parts are of cast or forged steel (except dog teeth, which are made of the best tool steel), there being no cast iron used in their construction. The blocks or bases have extra large bearing on carriage frame, and are designed to withstand the greatest shocks from turning heavy timber. They are faced on top with reversible facing bars one and one-quarter inch thick, four inches wide, fastened to the blocks with turned bolts. The blocks are so made that the set shaft on the carriage can be readily taken out without removing the pinions.



CARRIAGE WITH HAND SET WORKS

The knees are also genuine cast steel and are fitted with McDonough type tool steel dogs, and are put in so that there is no chance for side motion, the dogs being held by strips on the front of the knees one-half inch thick, four inches wide, which are also bolted on to the knee casting; the teeth are standard size in shape; the dog lever socket is also cast steel.



DETAILS OF RACK, FORGED STEEL TAPER LEVER, ETC.

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The racks and pinions are cut out of solid machine steel (no cast teeth are used), and the teeth are so shaped in rack and pinion to absolutely prevent lost motion and insure accurate setting; at the same time provision is made to take up lost motion occasioned by wear. You will find that the set shaft racks and pinions and set shaft on this carriage will turn easier than any carriage you have ever used.

The taper lever is made of forged steel and the arches of cast steel and are fastened to the rack with the usual connections having extra large pins. At the same time you will notice on the taper arch a spring which takes up all the shock received from the nigger, in turning logs, at the same time is the means of adjustment for keeping all knees in line. A cushion spring stop is provided to limit the travel of the knees when receding. This is especially necessary in using power set works, and is a valuable practical device.

We strongly recommend the Trout Power Set Works shown in the cut, which is the most accurate setting device known. It is very easily kept up, is extremely simple, and is the only practical device that we know of that will absolutely set accurately and will not overthrow on both large and small timber. The ropes driving the set works run all the time, and is driven from below the floor, so that there is no power taken from the carriage trucks. You can move the knees ahead or recede at will, which is very desirable, especially in sawing cants for a gang, or in cutting long timber. The set works are guaranteed in every respect. You will notice that the dial is close up to the setter's eye, and there is no excuse for miscuts.

We can also furnish in lieu of the Trout Power Set Works, the Trout Hand Set Works, which is made along the usual lines for five inch face ratchet, and is the latest improved Hand Set Works; they are guaranteed in every respect.

The carriage frames are usually made of 8x8 Long Leaf Pine or Oak, as may be desired. Along on the front rail of carriage, if desired, we can place 6x6 angle iron running full length of carriage frame.

The carriage trucks are made either two and seven-sixteenths or two and fifteen-sixteenths diameter as ordered, with steel wheels fourteen to twenty inches in diameter, to fit either standard rolled carriage track or railroad rail planed to suit.

The truck boxes are made with renewable brass liners, which can be replaced in a few minutes. They are also provided with excellent oiling facilities, and in addition have attachments to keep lost motion out of the carriage trucks and frame.

If an automatic offset is required, we furnish a simple plain track offset that we guarantee to be simple, practical and satisfactory in every way, see page 40.

The carriage frame will be arranged to suit a steam or rope feed, as may be desired. That is, necessary timbers will be provided for the frame.

We can furnish the Hammer, or any make of dog, on these knees. Automatic coupling for coupled carriages as desired.

For Carriage Appliances see Bulletin No. 9, pages 37 to 40.