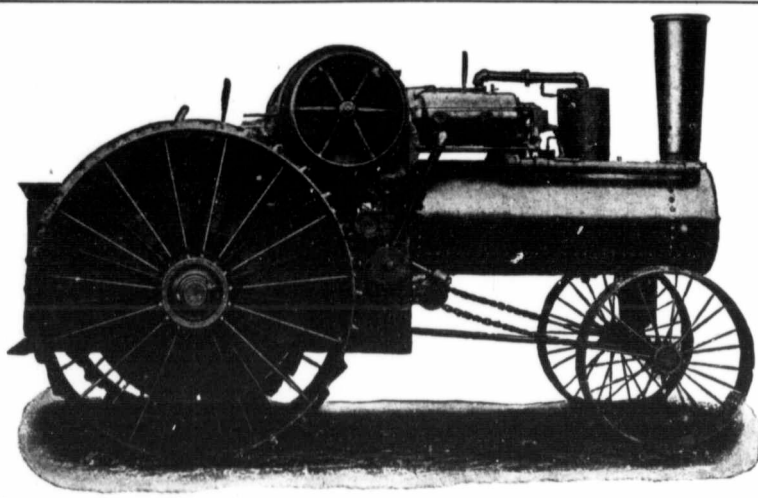


No! This is NOT a Steam Engine!



TOWNSEND TWIN CYLINDER KEROSENE TRACTOR, 10-20 H.P. and 12-25 H.P.

Note the combined Frame and Radiator—a patented feature—Biggest achievement ever attained in Farm Tractor Building. Weight 10-20 h.p. 5500 lbs. Write for full particulars of the Townsend at once.

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Note That Strong Frame

Imagine a cylindrical shell of thick boiler plate, strongly rivetted and reinforced with heavy heads and boiler tubes. It positively cannot strain out of shape. Affords an ideal radiator—holds water for several days—no thin metal to corrode—no weak joints to leak—no dirt or scale can clog, plus many other advantages which we have not room to mention here.

Also BURNS KEROSENE

—the cheapest fuel. The Townsend does this perfectly—at all loads because it was built to burn Kerosene—not made over for that purpose. Saves you fuel bills.

The Townsend has a Throttling Governor Twin Cylinder Motor, runs smoothly, steadily, quietly.

Other Strong Points of the Townsend

Strong Shafts, Large Bearings, Heavy Wide-faced Gears, unparallelled system of cooling, large Drive Wheels, enclosed gearing, perfect lubrication, no frozen water jackets—these and scores of others. The Townsend is a dependable Tractor that will measure up to your hardest task, and is sold by a firm the reputation of which is beyond question.

cut its own width and does away with side draft. But a small 8-16 tractor pulling two plows will not plow out more than one-third its width. Consequently, there is a pull on one side of the tractor and not in the middle. This has been overcome by some by using high narrow wheels, but this made the machine too high and required a high hitch. A large number of tractors use a single drive wheel in front of the plow; some have this wheel in the furrow and others have it run out on the land. The disadvantage of this plan is that in soft ground, if this one

wheel slips, the tractor is stalled.

A tractor should be capable of developing a maximum draw bar pull equal to 65 per cent of its weight. The average weight of 22 makes of two plow tractors is 4,440 pounds, and the average weight of 20 three plow machines is 5,820. The average pull of a tractor should be considerably less than 65 per cent. To be conservative, one should figure on a load of 1,000 pounds per bottom. It is not often that such a heavy pull will be required, but there are times when it is a good thing to have the power at hand. The usual speeds in miles per hour for small tractors is 2½.

A Strong Rigid Frame

One of the essentials of small tractors is a strong frame. It is subject to extremely severe service and consequently has to be made very rigid. A frame should be riveted very securely, or if not made of built-up construction, should be cast. The vibrations that come on a tractor frame are different from any on any other machine. The vibration is more of a shiver and the combination with the draw bar pull makes the design of a frame very difficult.

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