

a self-contained motor-plough, the cost being £75. The petrol engine is of 4 b.h.p., it is water-cooled, magneto ignition. The weight of the whole single-furrow implement is 6 cwt. It is driven through a metal cone clutch, with chain and spur-wheels to the driving-wheels proper. The engine is so governed that the attendant has to operate only the clutch, the adjustment of the driving-wheel regulating the depth. The designer has ingeniously provided for the necessary adjustment of the two driving-wheels independently of each other. The frame is constructed to admit of the direct attachment of implements for harrowing, drilling, hoeing, &c.

At a public demonstration in England the 4-horse-power motor-plough cut a furrow of 6 in. It travelled at a speed of over three miles per hour. The first furrow was opened with the wheels level. The steering was simple. The plough was quickly turned on the narrowest of headlands. The furrow-wheel was readily adjusted, and the implement started on its return. When the land was opened out the implement was permitted to proceed unattended. The adjustment and balance were so complete that a straight and even course was maintained to the end of the furrow. Inequalities of the surface and differences in the texture of the soil were easily overcome. It was estimated that in ordinary ploughing and with reasonable conditions of soil this implement consumed 2 gallons of petrol per acre. This particular demonstration was performed under unfavourable weather-conditions, the soil being in a sodden state. It was, however, completed to the eminent satisfaction of the interested observers.

The same makers exhibited a still smaller implement for use in root crops, or orchards, or gardens. This is hand-guided, the driving-wheels being adjustable laterally. It operates as a cultivator or hoe through trees or rows of plants where horses are inadmissible and where manual work would be both tedious and costly.

The small agrimotors should rapidly secure favourable attention. The cost is within the capacity of even small orchardists or market-gardeners. With these, used in the orchard and the market garden, the horse can be entirely displaced. The weight is light. They are easily operated. They can even work on land that the horse could not traverse, and they are reliable. This implement can be equipped with a belt-pulley. With this other machinery can be used, and the farmer can thus be provided with an agrimotor and a stationary power-outfit.

The agricultural land of New Zealand has reached a high price. Increased production is necessary to maintain our prosperity. Our farmers must avail themselves of the most modern appliances of cultivation, and of these the most valuable may be the agrimotor.