

# Morris Air Cart (Model 7130)

**Introducing Morris Air Cart (Model 7130), the most recent addition to the range of Canadian built equipment by Morris Industries that Plucks Engineering sell in New Zealand.**

This Air Cart has been sold into the Waimakariri area to a farmer (Bob Bennett) who has been farming for over 40 years and liked the idea of being able to use bulk amounts of grain and fertiliser to do his drilling. What the Air Cart allows Bob to do is single handedly load five tonnes of grain and fertiliser into two separate tanks on the Air Cart and using our CP721 Cultivator set up with what are called Gumbo Boot point ground openers. Bob can drill his fertiliser down the centre of the two seed rows each point creates, which are about three to four inches apart. The fertiliser

can be drilled not only between the seed rows, but at a depth that suits the seed eg. from one inch to about three inches below the seed drill depth.

The Air Cart that Bob has is a duel chute model which means it has two completely separate seed/fertiliser delivery systems, both driven by a 17 inch air fan on the back of the Air Cart. Both the seed and fertiliser have their own metering bodies which once set by Bob at the rate he requires for the paddock, meter the seed/fertiliser into the air stream. The metering bodies are ground driven by the rear wheel on the Air Cart and monitored by an electronic flow censoring system that tells Bob not only what rates are being drilled, but that all the shafts are still turning, tank levels, fan speed and most importantly if there are any blockages in the air distribution system.



As you can see from the photo the Air Cart has its own auger which is used to load seed/fertiliser into either tank or one product into both tanks if required. The auger can also reverse to clear itself out once a tank is full, so there is no cross contamination of product from one tank to the next. The auger can swing under the metering bodies to clean out the tanks if required at the end of the paddock.

If required the Air Cart can be quickly detached from the Cultivator/drill. The Air Cart has two large flange type manifolds carrying the main delivery hoses that quickly connect to matching manifolds on the Cultivator. The hydraulic hoses for the auger and air fan are also on quick release connections and the draw bar that tows the Air Cart is made up of RHS steel and can be easily dismantled one part at a time while still connected to both the Air Cart and Cultivator. The same applies for hooking back together the Air Cart to Cultivator/Drill, the RHS steel towing beams are telescopic, so Bob doesn't even need

to be very accurate with how close he parks the two machines to each other ready for hook up.

With Bob's set up being duel chute this also allows him to very quickly change over to single chute and blow both seed and fertiliser into one drill tube per leg or use both tanks to hold seed only or fertiliser only, and again drill down one hose per leg. What this gives Bob is the option to carry twice as much of one product, so therefore far longer times and hectares between fill ups.

Bob's Cultivator is a Morris built CP721 (21 foot wide) which has 27 tines at nine inch centres, with four row finger harrows on

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