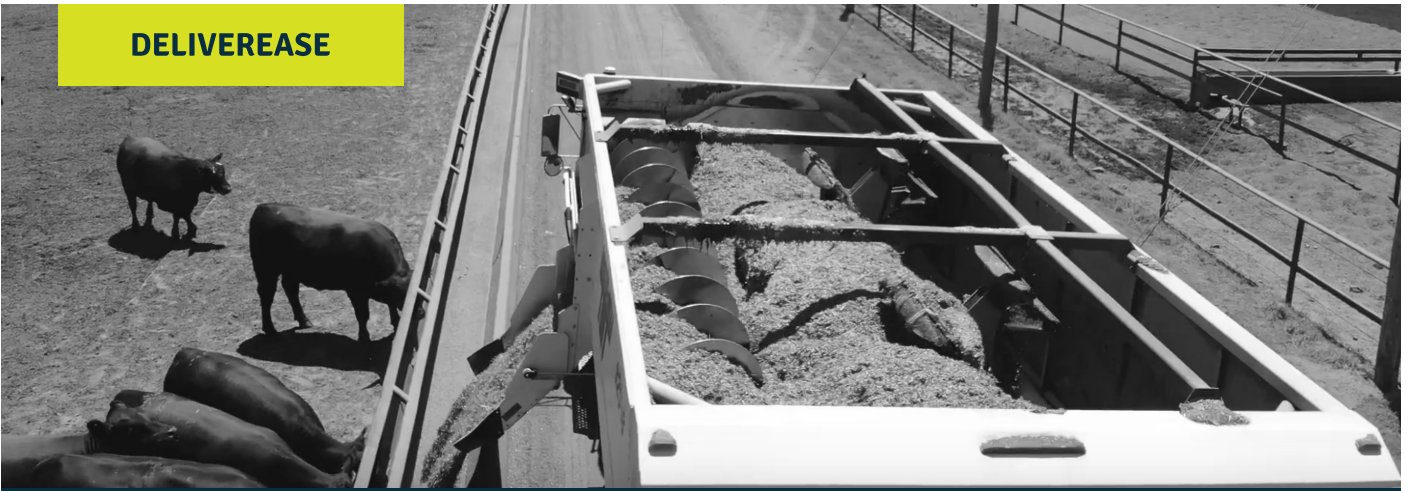


DELIVEREASE



Introducing a retrofittable auto-delivery system, DeliverEase: feeding accurately and efficiently.

Feedlots may now benefit from significant productivity improvements, enabled through an integration of appropriate and affordable technologies.

Feed delivery to bunks requires consistency, and key indicators include delivery duration, accuracy, and uniformity of feed distribution across the maximum bunk length. The delivery process is very labour-intensive, requiring several parallel activities to be completed with high proficiency, including normal truck controls, feed flow control for even delivery along a pen bunk length, and delivery accuracy.

Advancements in robotics technologies means that it is now feasible to automate feed delivery. With MLA's investment, Manabotix has developed a world first automatic delivery system retrofittable to the mixer bins of commercial grade delivery vehicles. Through an agreed validation protocol evaluating the prototype and human operators under normal operating conditions, it has been demonstrated that the prototype system provided more accurate and faster first pass and final deliveries than manual operation.

MANABOTIX DELIVEREASE OFFERS THE FOLLOWING KEY FEATURES

- + Interlock preventing feeding errors if the feed truck arrives at the incorrect pen.
- + High accuracy, evenness, and bunk utilisation to achieve allocation for target pen.
- + Enables inexperienced operators to deliver feed with high performances.
- + Adaptive algorithms learn delivery enhancements and respond to ration changes.



SYSTEM SPECIFICATIONS

ENVIRONMENTAL

Suitable for all feedlots, all bunk designs, all pen lengths, all road conditions, and all rations

Suitable for all ambient operating conditions

DELIVERY PERFORMANCES[†]

Accuracy : < 3kg for all feed masses and rations

Rate: Up to 20% faster feeding in pens.

OPERATIONAL

Manual override available

Integrates with most commercial scale heads

Evaluations show the system is more accurate, more precise, and faster than manual operation.

INPUTS

- + Target pen
- + Ration and delivery mass
- + Truck and feed gate pose

SOLUTION

Manabotix DeliverEase

OUTPUTS

- + Active control of output flow mechanisms
- + More accurate, even, and faster feed deliveries
- + Flexible design suitable for different feed delivery vehicles, appropriate for use in different environmental conditions
- + Live data may be viewed, and all delivery results published over-the-air (technology options available) in an efficient, simple, and intuitive format via web application; historian functionalities enable drill-down of performances and behaviours

