



Automatic Cup Removers

Intelligent interface, robust design, and uncompromised functionality

The CR-1 Automatic Cup Removers (ACR) deliver “simply clever” innovation for Australian dairymen.

Retrofittable to any system – the CR-1 is changing lives with meaningful, customised features.

The CR-1 has been jointly designed and manufactured by Daviesway and New Zealand’s MilktechNZ® using the best industry science and Australasian understanding.

It showcases the next generation of milking automation, which is robust, easy to operate, and simple to programme.

This is what technology is meant to do. To make life easier for you, and more comfortable for your cows.



The CR-1 cup remover system is made up of four **COMPONENTS**

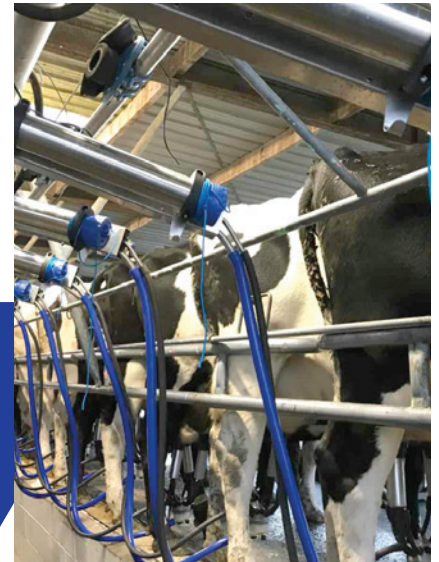


CONTROLLER

A remote mounted control board encased in a water-resistant body for reliable performance in demanding dairy environments.

RAM

A robust 76mm stainless steel ram body with a “lift to start”, rapid vent, and adjustable retraction speed.



The CR-1 can also control optional milking components:

- **IN BAIL TEAT SPRAY**
- **RETENTION RAM**
- **PULSATOR**



LED USER SWITCH

The water-proof switch with bright, multi-coloured LEDs allows intuitive milking operation, and gives immediate and obvious feedback on current milking status.



FREE-FLOW MILK SENSOR

A free-flow milk sensor (with built-in milk line vacuum shut-off) is designed to ensure stable claw vacuum. It operates in a ‘normally closed’ position to improve milking system start-up.



“The CR-1 Cup Removers were originally designed for Australian conditions by myself and Bruce Treble [Daviesway]. ACRs had been in milking systems for 30 years, but the last innovation had been stagnant for 20. We designed the CR-1 from scratch using today’s technology and by listening to our customers and our distributors.”

Gustavo Garza, MilktechNZ® CEO

"The control box can also be retrofitted on an existing system. So, for the systems out there where the control box is failing – or the circuit boards are getting old but some of the hardware is okay – we can put the CR-1 control box over the top of them and give the system the new CR-1 functionality."

Bruce Treble, Daviesway Capital Works Sales Manager.



FEATURES



USER SWITCH WITH MILKING STATUS LED

A robust, intuitive push button switch with multi-coloured LED lights makes it easy to operate the cup remover, and see the status of the milking at a glance. The electronics are encased in waterproof epoxy resin to guarantee a long operational life.



LIFT TO START MILKING PROCESS

The cluster starts milking as soon as you lift it - no need to reach for a start switch. This feature significantly reduces milking time and operator fatigue.



GLOBAL WASH

A single switch automatically puts all the milking points into 'wash mode'. Another time saver, this feature also makes sure all the cups are washed correctly every time.



MAX MILKING TIME

Automatically stops milking regardless of the milk flow – so there is no more waiting for the slowest cow in the run. It can also be set to stop milking, even when animals are milked in 'manual mode' (to protect against accidentally over-milking).



KICK OFF ALERT

If the cups are kicked off, the CR-1 will raise an alarm.



COW RETENTION CONTROL

The CR-1 can independently control a retention bar to retain a cow which has kicked her cups off/is still milking at the rotary exit and needs to be re-presented to the milking operator. This function can be set to only operate at the rotary exit, reducing wear and maintenance costs on the retention system.



CLUSTER DROP

The CR-1 can be set to lower the cluster so it travels underneath the bridge, and gives unrestricted access for the cows as they enter/exit the rotary.



TAKE OFF BY POSITION

Stops milking at a fixed position on the rotary regardless of milk flow. This makes sure each cow completes only one rotation, and reduces overall milking time.



PULSATION CONTROL

The CR-1 can control pulsators, which lowers vacuum consumption (pulsator only operates while cups are attached to a cow). It gives old pulsation systems a new lease of life by replacing the pulsation controller and wiring looms.



IN BAIL TEAT SPRAY

Teat spray every cow, every time – eliminating the need for an extra person in the dairy. A better teat coverage is achieved by spraying from below the cow, rather than from behind.



PROGRAMME FROM YOUR PHONE

The milking settings can be controlled through your smartphone while you milk. The milking settings can be accessed and modified through a web app using wireless communication.



WIFI ENABLED

Communication for each device is achieved with a wireless network – ensuring a stable, reliable connection to manage milking settings.



"It took me two weeks to trust the CR-1s, but you have to have faith in them. When the upgrade got commissioned, we were in peak production and I've never been able to take cups off as early as they were starting to come off, but the machines were saying they were milked out."

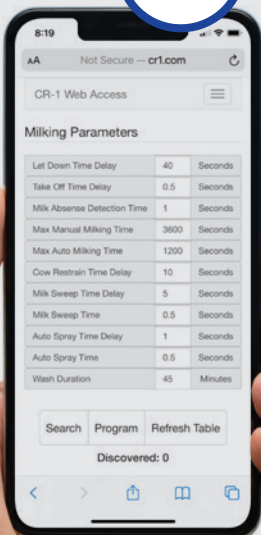
"I love all of it, but two of my favourite things are the "cluster drop" and the "lift to start". Once you've had the "cluster drop", you wouldn't not have it. With the "lift to start", all you do is take the weight of the cluster, and it starts. It's pretty cool."

Aaron Thomas, manager Mumford Farms, 450 cows, 50-stand rotary (Won Wron, East Gippsland).



*"They are simple, and they work. When I pull off the cups off the jettors and turn the plant on all the clusters just lift, and I'm ready to go. **None of that running along to every set of cups.** I also love the 'global wash' function, which transfers all the milking points from milk-to-wash mode with a single switch."*

Peter West, 320 cows, 22-a-side herringbone (Korumburra, Victoria).



SIMPLE TO USE

CR-1 automatic cup removers bring the latest wireless LoRa communication protocols together with the ability to change its parameters from your Smart Phone or any WIFI-enabled device. It also includes the opportunity to upgrade its software with the latest features in real time.

For more information
daviesway.com.au • 1800 666 269

Est. 1911
DAVIESWAY
 IDEAS TO FARM. EVERYDAY.

