

320HP MILKING CLUSTER



ALL ROUND BETTER MILKING

ERGONOMICALLY DESIGNED FOR OPTIMUM FIT AND HEALTHIER UDDERS with the complete 320HP MILKING CLUSTER, to help grow the value of your dairy.

ERGONOMICALLY DESIGNED

FOR OPTIMUM FIT AND ANIMAL COMFORT

The 320HP Milking Cluster allows for an all round better, more efficient milking.

The 320HP Milking Cluster has been ergonomically designed to provide a reduced cluster weight, minimising operator fatigue. Teat condition and udder health is improved for teats of all sizes. The perfect fit of the vented liner provides you with unsurpassed milk extraction and even milk flow from all quarters.



Weighs only
1.3kg



320ml Claw Bowl



Impact Resistant



Narrow Profile

Improves cluster attachment between the rear legs



Ergonomically designed

For the optimum fit for teats of all sizes, animal comfort, and easy handling for operators of all hand-sizes



High performance

The 320HP Milking Cluster achieves best-in-class teat end and vacuum performance



Enhanced flow rates

Higher capacity ensures peak flow rate performance and enhanced flow rates when combined with the specified liner and shell combination



Reduces Repetitive Strain Injuries

The 320HP Milking Cluster is super lightweight, significantly reducing the operator's risk of RSI

Best suited for latest cow genetics

The unique design of the claw is suited for all the latest cow genetics, with narrow rear inlets to improve milk flow through the teat canal and a high-capacity 19mm outlet to effectively and efficiently move milk away from the teat end during liner closure. With the specified liner and system setup, the 320HP Milking Cluster design ensures, maximum milk flow while minimising vacuum level changes during the opening and closing of the liners. Optimum teat health is promoted through innovative liner design.

With its robust, lightweight and ergonomic design, the 320HP Milking Cluster allows the vacuum, pulsation, liner, and the milking unit to work together to optimise the milk harvesting process.

The complete high performance cluster system



Shorter milking time

Immediate let down and continuous fast milk flow is encouraged through the triangular liner design. The air vent in the liner tail rapidly moves the milk away from the teat end. As a result, the milking time is reduced.



Reduced cup-slip

Cup slip and fall-off is significantly reduced with the triangular liner design. Less cup slip improves teat condition and adds to milking speed. A slipping cluster leaves the cow uncomfortable and may result in lower milk quality.



Reduced cluster weight

Reduced cluster weight is beneficial for both cows and operators. Cows' benefit from having better udder health, through improved milking performance, while lighter clusters contribute to reducing the leading cause of on-farm repetitive strain injuries in operators.



Better teat alignment

The narrow rear claw nipple spacing fits the natural placement of the teats. Faster milk flow is promoted as the teat canal is not restricted. Better alignment also means less liner slip.

TRIANGULAR LINER BORE

IMPACT RESISTANT PLASTIC

VENTED LINER TAIL

NARROW REAR NIPPLE PLACEMENT

320ML CAPACITY

STAINLESS CLAW BASE UNVENTED

HIGH VISIBILITY TO MILK FLOW

AUTOMATIC SHUT-OFF VALVES AVAILABLE

TRIANGULAR BORE

Relaxed

Collapsed



x4



x4



x4

HP1 Liner

With cows and operator in mind we combined many outstanding features into a high performing milking liner.

- The vented liner tail quickly transports the milk away from the teat end and results in a more stable teat end vacuum. This largely eliminates backsplash and cross contamination of the teats. The reduced splash back aids with froth reduction.
- The triangular bore has a superior massaging effect on the teat. A gentle massage leads to better milk flow by relieving teat congestion. Unlike round liners, triangular liners do not pinch the teats.
- The collapsed liner allows vacuum to bleed into the reduced vacuum chamber in the liner head. Liner slips, fall-off and squawking are virtually eliminated. The reduced vacuum chamber promotes animal comfort and health through less ringing of teats.
- The 22mm mouthpiece is a perfect fit for a large range of teat sizes
- The anti-twist alignment feature prevents teat damage through wrongly installed liners.



TRIANGULAR BORE

Gently massages teats. Better fit for a large range of teat sizes

TRIANGULAR BORE

Triangular bore reduces liner slip and squawking. Improves milking speed

SHUT OFF RELIEF

Shut-off groove for positive vacuum shut off. No unnecessary vacuum inlet during cluster attachment

VENTED LINER TAIL

Vented liner tail improves milking speed and reduces cross contamination

REDUCED VACUUM CHAMBER

Better animal comfort and teat health

22MM MOUTHPIECE

22mm mouthpiece for optimal teat fit

HP Plastic Shell

The smaller internal volume of the shell improves the pulsation performance. The liner ant-twist feature prevents teats being damaged from misaligned liners. The extremely durable material withstands even the harshest treatment, while being lightweight and comfortable for the operator.



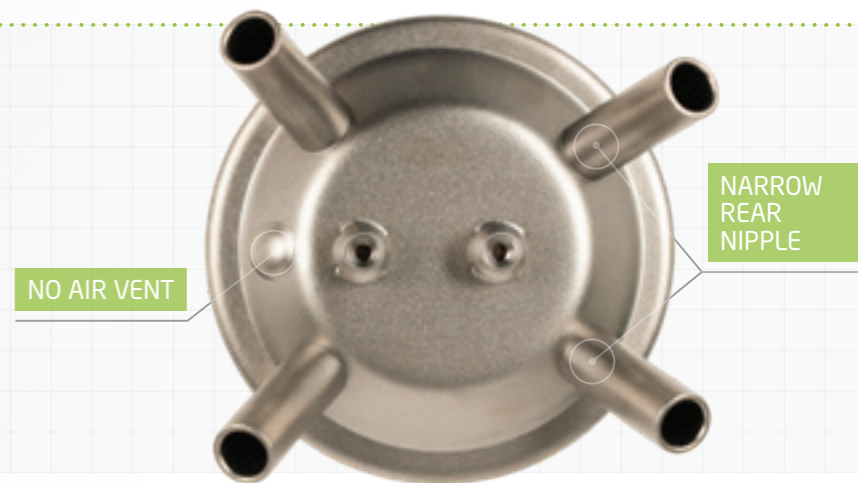
REDUCED VOLUME

LIGHTWEIGHT

DURABLE

HP Claw Base

The narrow rear nipple arrangement on the claw base aligns much better with the rear teat placement on the cow. This significantly reduces sideways tension on the teats and allow for improved milking performance and better teat health.



NO AIR VENT

NARROW REAR NIPPLE

320HP MILKING CLUSTER Series

Product Name	Outlet Size (OD)	Pulsation Type	Vacuum Shut-off Valve
MC5500	19mm	2x2	Yes
MC5510	19mm	2x2	No
MC5520	19mm	SmartD-TECT	No

Reducing operator fatigue, while improving teat condition and health

When Fraser Storey redeveloped the infrastructure on his farm and replaced his two older rotaries with one 70-point Orbit Concrete Rotary Milking System, it was the perfect opportunity to trial the new Waikato 320HP Milking Cluster.

Fraser had heard about the new lightweight cluster during the construction of his new rotary and contacted Waikato Milking Systems, saying "The clusters we had in the old sheds were the Waikato 320 model which are still current and very similar, however the biggest difference is the weight". With the new cluster being 1.1kg lighter, the feedback from staff has been positive with Fraser saying "Over the course of milking there's a lot less fatigue on the operator".

It was noticeable in the old sheds that his staff were tired from working with the heavier clusters, and they had to work harder to get through milking. "Whereas

now, I can see that it's so much easier for our staff" says Fraser, who has noticed his staff were happier at the end of each milking session. While it took a little time to adapt to applying the new clusters, "The lightweight nature of the cluster makes it easier to cup the cows and in turn makes it easier on staff, and lowers the stress on their bodies at milking time".

“
... we've had a lot less cup slip than we did with the heavier clusters.

”
The new clusters have also had a positive effect on Fraser's animals as the vented liner minimises milk backwash, which helps to improve teat health. Cup alignment, good teat condition and how well cows are

“
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”
Fraser Storey
Farm Owner

milked out "were the top factors farmers would always look for from a high-performing cluster" says Fraser. "The other real positive about the 320HP is that we've had a lot less cup slip than we did with the heavier clusters".

As well as being designed to be lightweight, the Waikato 320HP Milking Cluster has also been constructed to be strong and robust enough to handle the knocks at milking time. "Occasionally a cow will stand on it, or catch the ACR rope as she backs off, but we haven't had any issues with the shells or the cluster at all".

Fraser recommends the Waikato 320HP to other farmers looking for advantages around milking time. "In terms of the new shells, liners and clusters, they've been a positive addition and I would recommend them.

Farm name:
Longreach Dairies

Owner:
Fraser Storey

System type:
70-point Orbit Concrete Rotary
Milking System

Herd size:
1020

Location:
Te Awamutu, Waikato, NZ





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Growing the value of dairy