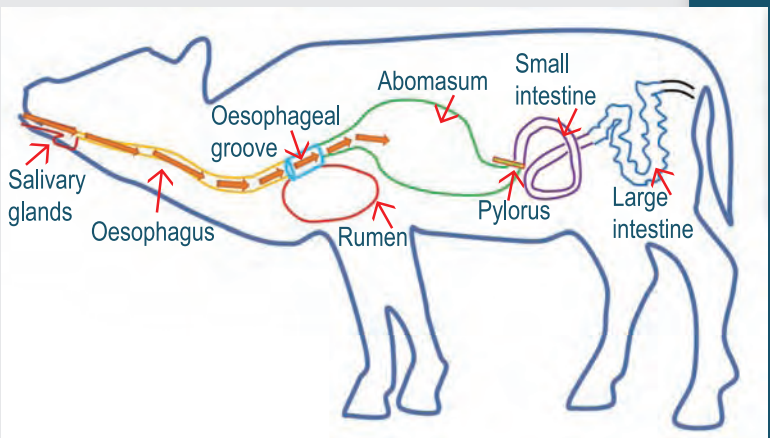
MILK BAR™
easy for you, healthy for them

The Range 2024

The calf's physiology

The calf's digestive system is geared to receive milk slowly from the cow.
When suckling, the calf's mouth creates both a positive (pushing down) and negative (sucking) pressure onto the teat. In this way, the calf can only swallow small sips of milk at a time.
An abundance of saliva is produced, vital to balance the pH in the abomasum for curding. Saliva is rich in lactoferrin-lactoperoxidase, an enzyme system with antioxidant and antimicrobial properties that boost the immunity and improves the protection of the calf.

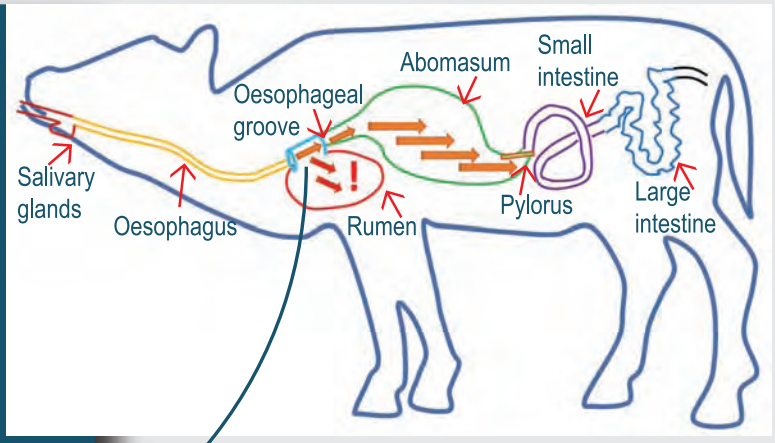
Feeding with a controlled milk flow (cow or Milk Bar™ Teat)

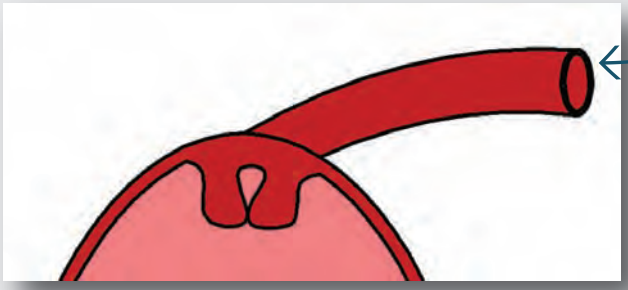


- Saliva is produced. Saliva boots immunity and contains pre gastric lipase for fat absorption.
- The milk and saliva mix and slowly enter the oesophagus.
- The controlled flow protects airways from milk.
- The oesophageal groove closes to protect the rumen from milk.
- The pH neutral mixture of milk and saliva enters the acidic abomasum and forms a curd.
- Lactose is absorbed into the bloodstream.
- The 'sugar free' curd passes into the intestines for nutrient absorption.
- With full nutrient, fat and sugar absorption, daily gains increase.
- The extended drinking time satisfies the **suckling instinct to reduce cross suckling.**

Feeding with a faster flow teat

- Milk enters the oesophagus at speed and can enter the airways (coughing when drinking).
- The oesophageal groove overflows and milk can enter the rumen (bloat, acidosis).
- With minimal saliva, the milk does not correctly curd and remains high in lactose (sugar).
- The excess lactose passes into the intestines and becomes a food source for bacteria (scours).
- The suckling instinct is unsatisfied and calves are hyperactive after feeding (cross suckling).





The Oesophageal Groove and the Abomasum.
When a calf suckles, the oesophageal groove closes and forms a small tube to direct the milk past the rumen and into the abomasum.
A fast flow of milk can cause oesophageal groove dysfunction where milk overflows into the rumen.

Research TIP! Controlling milk flow protects the rumen!

'It is vital to the health of the calf that all the milk goes into the abomasum.
If milk enters the rumen it can cause gut ache, as the enzymes in the rumen cannot digest milk.
Milk in the rumen is a key contributor to rumen acidosis and ill thrift.'
Source - Dr. Jim Quigley

Milk ferments in the rumen and produces excess gas (bloat).

The suckling instinct and cross suckling

To prevent starvation, the brain tells the calf how long to suckle for.
The gut and brain chemistry work in synergy, and after a period of time suckling, there is neurological feedback to the brain to tell the calf to stop suckling.
When a calf drinks her milk to quickly this communication fails. The milk is finished but the brain is telling her to keep suckling. She then tries to suckle on other calves or her surroundings, until the suckling urge switch's off.
This is commonly seen as **Cross Suckling.**
By controlling milk speed, the suckling instinct is satisfied so calves are quiet and content after feeding.

Note: Calfs fed on a low volume, concentrated milk system may not have time to produce adequate saliva which may result in some cross suckling.

Lactose absorption & nutritional diarrhoea

What causes it

- Nutritional scours can be linked to two major causes, poor digestion and stress.
- Digestive stress is a key factor. If the pH in the abomasum is not balanced and the acid secretion is reduced then the ability of the milk to clot is compromised as is the digestion of milk protein.
- **Cows that had contracted mild diarrhoea during their first 3 months of life had 344 kg lower ECM305 than those without diarrhoea.** *C. Svensson, J. Hultgren*
- Calves who suffer from nutritional diarrhoea have a reduced average daily gain which can impact future conception.

344 kg lower ECM305 is 31kg of milk solids!

31 x payout x herd size = a significant amount!

Nutritional diarrhoea (scours) is directly linked to feeding speed

'Diarrhoea can usually be traced back to a failure of adequate milk digestion in the abomasum. Nutritional diarrhoea is simply the end result of an oversupply of lactose in the intestines, caused by milk moving too rapidly out of the abomasum, so it cannot be broken down quickly enough. Nutritional diarrhoea often progress to infectious scours. Pathogens use excess lactose as a nutrient source to increase in numbers. *Source- Victoria Department of Primary Industries.*

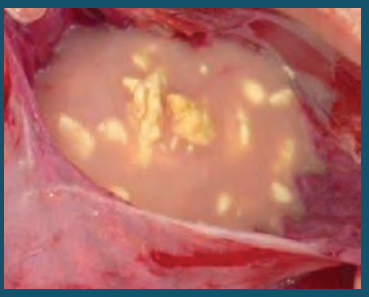
How to prevent it

- Calves must drink slowly enough to produce the saliva required to balance the pH in the abomasum for correct curd formation.
- Inadequate curding allows excess sugar (lactose) to enter the intestines, becoming a nutrient source for pathogens such as E.Coli.
- Milk Bar™ Teats are proven to increase lactose absorption.

Research: Reducing feeding speed reduces scours

Under farm conditions, slow release teat system (Milk Bar™ Teat) may reduce diarrhoea and other digestive problems in young calves during peak milk intake due to increased ileal digestion of nutrients, preventing undigested nutrient flow to the hind gut
Source - Journal of Applied Animal Nutrition

Calves fed with Milk Bar™ Teats had excellent curding. Only 3mg/gm of lactose remained two hours after feeding indicating more effective absorption into the bloodstream.*



Calves fed on a fast flow teat had inadequate curding. High lactose levels of 12mg/gm remained in the abomasum and high concentrates in the intestine and faeces.*

*Images taken from research published in the Journal of Applied Animal Nutrition.

Cross Suckling

What it looks like

- After feeding, calves suckle on their surroundings or each other and display hyperactive behavior.
- Calves with wet navels would have been sucked on. This can cause navel infections and in bull calves, 'pizzle drinkers'.
- Check calves udders for cross suckling damage. Cross suckling is directly linked to first lactation mastitis and blind quarters.

Cross suckling is directly linked to feeding speed

The calf's brain assumes she is suckling from a cow with a controlled, slow speed.
The gut and brain chemistry work in synergy, so when a calf drinks milk too quickly, there is a lack of neurological feedback to the brain. The suckling urge doesn't switch off and so calves will continue to try and suckle.

How to stop it

- The Milk Bar™ Teat controls the way calves suckle which satisfies the suckling instinct.
- With controlled delivery and lots of saliva, the digestive processes work so calves are calm.
- When a calf gulps milk quickly, with minimal saliva production, the digestive processes fail and cross suckling post feeding is common.

Research: The slower calves drink, the less they cross suckle.

'During the trial, it was observed that group-housed calves fed on the faster flow teats had a much greater incidence of hyperactivity immediately post feeding and were more likely to engage in non-nutritive sucking of each other's body parts (including muzzle, navel and udder). ' *Source - Journal of Applied Animal Nutrition*

Calves fed with Milk Bar™ Teats were settled and content after feeding. All calves had healthy, undamaged teats and the keratin plug remains intact to protect the teat canal. *

Calves fed from a faster flow teat cross-suckled vigorously after feeding. Cross-suckling damage and loss of the keratin plug was common. *

*Images taken from research published in the Journal of Applied Animal Nutrition.

Weight performance

Positive impacts on increasing ADG (average daily gain).

- 'Pre-weaning ADG had a significant positive effect on first-lactation performance: every **100 gm** of pre-weaning ADG was associated with **85 to 111.3 kg** more milk during the first lactation.'
  Source: Soberon et al., 2012
- Improved ADG is associated with better conception rates.

85 - 113.5 kg is 7.66 - 10kg of milk solids!

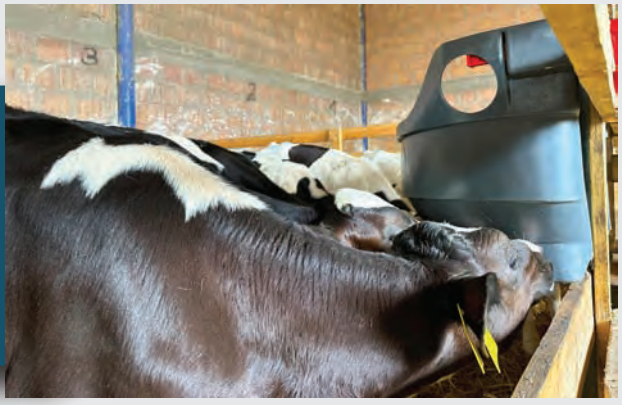
8.83 (avg) x payout x replacements = income!

Saliva production influences ADG

Improving lactose absorption is key for calves to fully benefit from good nutrition programmes. Lactose is released from the milk curd in the abomasum. It is broken down to glucose and galactose and these are absorbed into the bloodstream to form the major energy sources for young calves.

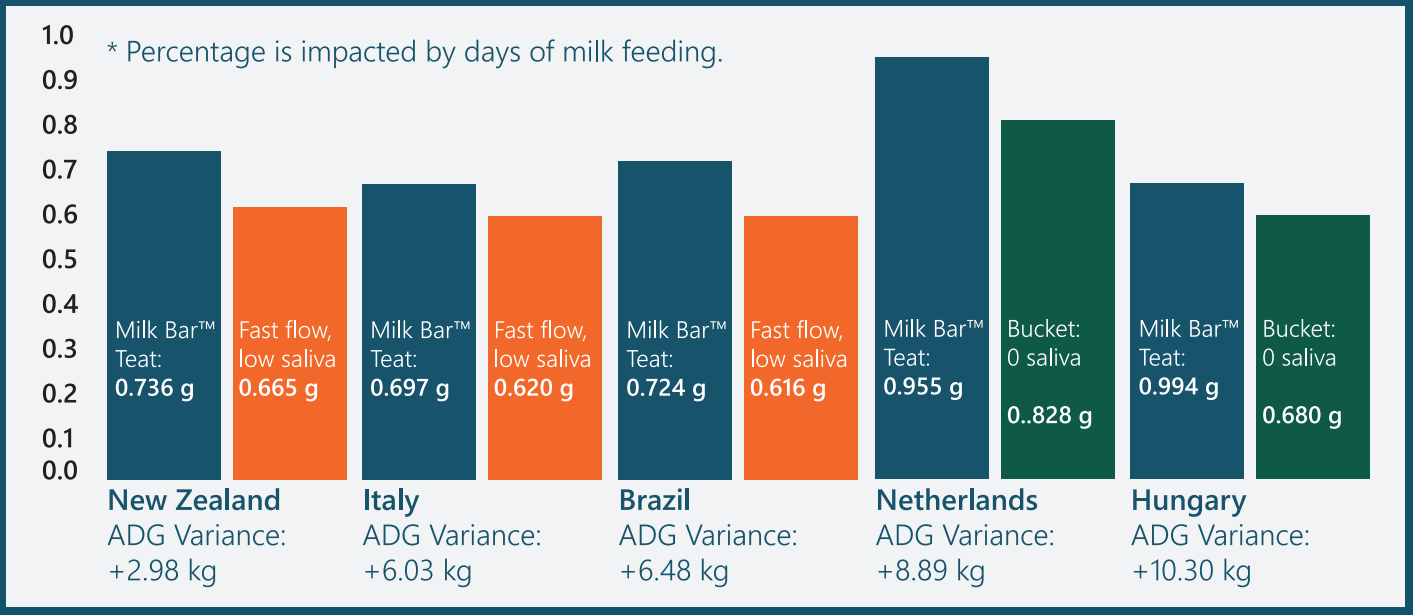
Helping improve ADG

- Feeding with a controlled flow, high saliva producing Milk Bar™ Teat significantly increases lactose absorption.
- Saliva contains pre gastric lipase for the digestion of fats. By controlling the flow of milk, the digestive system functions for maximum utilisation of feed and optimum growth.



Research: Controlled flow and high saliva production, positively impacts ADG

'Using slow flow rate teats to feed calves from day old to weaning appears to have an important impact on digestive processes in the immature gut.
Such improvements in digestion and rumen development in young calves may assist in the digestion of milk and other feeds, leading to improved growth performance. *Source: Journal of Applied Animal Nutrition*



Milk Bar™ Teat

For over 32 years the Milk Bar™ Teat has delivered specialised flow control to improve calf health.

Controlling the flow to 'cow speed' protects calves from the harmful effects of fast feeding.

The regulated drinking speed improves digestion to reduce scours and cross suckling.

Milk Bar™ Teats are made from a renewable resource. No oil or synthetic based rubber goes into our teats.

Milk Bar™ Teat
Quantity: 10 per pack Code 900100
Quantity: 50 per pack Code 900112
Quantity: 100 per pack Code 900113
Back Design: Rectangular hole
Feeder Type: All pull through feeders.

Milk Bar™ Teat - Round
Code 900100-R
Quantity: 10 per pack
Back Design: Round hole
Feeder Type: Feeders with tubes.

Use for drum tube feeders!
Tubes and connectors available:
30m roll of 6mm, non toxic tube: 910911
10 x Connectors: 929501

To reduce nutritional scours it's important that milk is delivered at '**Cow speed**'. Regular, organised teat changes protect calves from the effects of fast feeding.

How to use:
At the start of the season, place new Milk Bar™ Teats into your feeders. Remove after weaning.

When to replace: The Milk Bar™ Teat controls the flow for around 110 feeds or 8 weeks when used twice a day.
For best calf health results, replace after 110 feedings.

Cleaning: Rinse after use. Use a **non-chlorinated** detergent at least twice a week or according to your farm hygiene protocol.
Avoid detergents and sanitisers that contain chlorine, chloride, or any other harsh chemicals.
Using products with Chlorine reduces teat life by 60%

TIP!
Manage your calf teats like you manage your liners.
Note when you fit new teats and how many pens each feeder will do.
Diarise when that feeder needs new teats.
Allocating a feeder per pen reduces time in the shed and makes teat management easier.

Milk Bar™ Training Teat

Specifically formulated to support very young or weaker calves.

The teat design encourages the correct suckling action so enough saliva is produced for boosted immunity an improved digestion.

Use a bottle or feeder with a Milk Bar™ Training Teat for the first two or three days.

When calves are fully trained, move them to the Milk Bar™ Teat for optimum calf performance.

Milk Bar™ Training Teat
Code 900300
Quantity: 10 per pack
Back Design: Rectangular hole.
Round back available upon request.

Research TIP !
Saliva provides Pre-Gastric LIPASE which is necessary for the digestion of fats.
Fast feeding colostrum with no saliva production reduces nutrient uptake.

Getting the first few feeds right are critical. The calf needs to suckle properly to produce saliva. Saliva has antimicrobial properties and combined with the iGg in the colostrum, helps to boost immunity.

How to use:

1. Use for the first 2 - 3 days in a bottle or feeder.
2. After 2 - 3 days the calf will be strong enough to transition to the more controlled Milk Bar™ Teat.

When to replace: The Milk Bar™ Training Teat will train 16 - 20 calves before needing replacement.

Cleaning: Rinse after use. Use a **non-chlorinated** detergent at least twice a week or according to your farm hygiene protocol.
Avoid detergents and sanitisers that contain chlorine, chloride, or any other harsh chemicals.
Using products with Chlorine reduces teat life by 60%

TIP!
Fit a Milk Bar™ Training Teat to a feeder or bottle.
This feeder or bottle becomes your training feeder and is used with multiple calves.

Milk Bar™ Automatic Teat

Satisfies the suckling instinct so calves are calm and settled.

Controls the flow for 600 to 700L for improved calf performance.

Side wings to visually check teat alignment.

Maximum saliva production to boost immunity and aid digestion for increased weight gain.

Milk Bar™ Automatic Teat
Code 900600
Quantity: 10 per pack
Back Design: 32 mm
Feeder Type: Automatic Feeders

Milk Bar™ Automatic Teat Connector
Code 929505
Quantity: 10 per pack
Connects Automatic Teats to tubes.

How can I implement the Milk Bar™ Automatic Teat into my system?

How to use:

Days 1 - 3	Use a Milk Bar™ Training Teat.
Day 4 - 14	Use Milk Bar™ Teats in your group feeders for 10 days. The controlled flow develops a strong calf.
Day 15.	Transition the calves to the Automatic Feeder fitted with new a Milk Bar™ Automatic Teat.

When to replace: Replace teats when milk flow has increased or at around 700 L.

Cleaning: Rinse after use. Use a **non-chlorinated** detergent at least twice a week or according to your farm hygiene protocol.
Avoid detergents and sanitisers that contain chlorine, chloride, or any other harsh chemicals.
Using products with Chlorine reduces teat life by 60%

TIP!
Transfer young calves to the automatic feeder once a week.
On the same day new calves enter the group, install a new Milk Bar™Automatic Teat to the machine.

NZ Pat Appln 787055 PCT Patent Application PCT/NZ2020/050110
International Patents pending.

Milk Bar™ Feeders

Feeders come with either large cut out handles, or secure finger grips, or both.

Easy to clean with sleek lines and no threads or valves.

Low teat channel reduces milk waste.

Milk Bar™ feeders come fully assembled with teats fitted and ready to use.

No two farms are the same so we have different hook systems to suit all pens, gates or rails:

Ezi Lock Hooks
100% bunt proof and adjust to fit gates up to 75mm rails!
Feeders hang upside down to drain.
Replacement hook set available.

Ezi Lock Hook Set: Code 950200

Aluminium Hooks
Nicely curved to hold the feeder in place.
Pre-drilled to adjust the width.
Retro fit to other Milk Bar™ feeders.

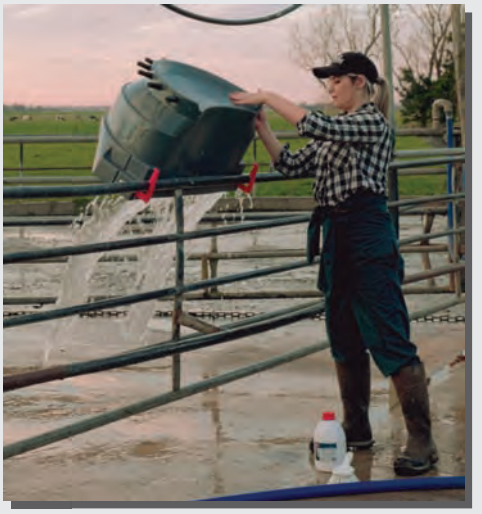
Reposition to suit your gates.

Moulded
Moulded into the feeder to fit 25, 45 or 50mm rails.

Replacement hooks available, call us for your needs on 0800 104 119

Feeders interstack to improve efficiency.

Light and durable to reduce user fatigue.



Functional and easy to clean.

Cleaning

Milk Bar™ Teats are made from a sustainable, natural rubber source which has the best 'bounce back' factor for optimum performance.

Once or twice a week, use a **non-chlorinated** detergent like Milk Bar™ Detergent, or a dish washing liquid. Do not use detergents and sanitisers that contain chlorine, chloride, or any other harsh chemicals.

Hygienic Milk Bar™ Teats have no valves. To clean, simply bend the teats over with your brush until you see a bubble pop back into the cleaning water. This forces milk out of the teat and allows the detergent to enter it.

Do not use Chlorinated Detergents! **Chlorine reduces teat life by 60%** Use a non-chlorinated detergent or sanitiser.

Milk Bar™ Trainer Bottle

Code 901100

Fitted with Milk Bar™ Training Teat for new born calves and to support weak calves.

Volume: 3 L
Weight: 600 gms Height: 150 mm
Length: 350 mm Width: 120 mm
Handle: Carry handle

Milk Bar™ 1

Code 910100

Self locking catch secures the feeder.
Use on rails of 25mm or less.
Extremely durable.

Volume: 3.2 L
Weight: 700 gms Height: 210 mm
Length: 210 mm Width: 210 mm
Hooks: Moulded 25mm

Milk Bar™ 1 4L

Code 910120

Marked gradients every 250 ml.
Use on rails 25 mm or less.

Volume: 4 L
Length: 210 mm Weight:
Width: 210 mm Height:
Hooks: Moulded 25 mm

Easy change teat attachment!


1.


2.


3.

Interstacks with teat fitted!

Milk Bar™ 5

Code 910200

Volume: 15 L
Weight: 2 kg
Length: 300 mm
Height: 360 mm
Width: 300 mm
Hooks: Moulded 25-40mm

Milk Bar™ 5EL

Code 910203

Volume: 36 L
Weight: 3 kg
Length: 700 mm
Height: 400 mm
Width: 300 mm
Hooks: Ezi Lock

Make light work of filling feeders this year!

Milk Bar™ Milk Kart 125L

Super easy to manoeuvre and stable even on uneven ground.
Fully insulated, double wall construction.
Moulded in sight glass with gradients.

Milk Kart Deluxe

Code 925200

Length: 1m
Height: 1175mm
Width: 700mm
Hose: 2.5m
Battery: 12V
Charger: Yes

Milk Kart Classic

Code 925100

Hose: No
Battery: No
Charger: No

Optional Power Whisk

Code 961100

Use a 10.8 volt battery drill to drive the Stainless steel whisk.

Milk Bar™ 6
Code 910300

Volume: 36 L
Weight: 3 kg
Length: 700 mm
Height: 400 mm
Width: 300 mm
Hooks: Ezi Lock

Milk Bar™ 10
Code 910400

Volume: 60 L
Weight: 5 kg
Length: 850 mm
Height: 430 mm
Width: 460 mm
Hooks: Ezi Lock

Milk Bar™ Eco 10
Code 927100

Volume: 60 L
Weight: 5 kg
Length: 850 mm
Height: 430 mm
Width: 460 mm
Hooks: Moulded 50mm

Milk Bar™ 12
Code 910500

Volume: 90 L
Weight: 8 kg
Length: 1.2 m
Height: 460 mm
Width: 430 mm
Hooks: Aluminium

Milk Bar™ 20
Code 910800

Volume: 120 L
Weight: 12 kg
Diameter: 900 mm
Height: 900 mm

Solid base stops calves pushing the feeder over.
Easy to assemble and clean.

Optional lid!
Code: 910802

If you're not sure what size feeder you need, it's a good idea to go up a size. You can always use a Milk Bar™ Plug to block off a teat space and if you unexpectedly have more calves, you can put a teat in to make a bigger group.

Milk Bar™ Plug
Product Code: 900109
Quantity: 10 per packet

Milk Bar™ Rail Pail

The Milk Bar™ Rail Pail is designed to reduce heavy lifting.
The spout sits through the rail and rests on the back of the feeder to take the weight of the milk.
Product Codes: Green 950100, Yellow 950101, Pink 950102

Milk Bar™ XL Range

These feeders have a wider teat spacing to accommodate larger breeds with wider heads or shoulders.

With a minimum volume of 7.5 L per calf, the Milk Bar™ XL Range is also a great solution for high volume systems.

The controlled flow of the Milk Bar™ Teat allows you to use a high volume system while minimising the risk of milk scours associated with higher volumes and fast feeding.

Milk Bar™ XL 2
Code 910179
Volume: 15 L
Weight: 2 kg
Length: 300 mm
Height: 360 mm
Width: 300 mm
Hooks: 25 - 40mm
Handle: Carry handle

Milk Bar™ XL 4
Code 910180
Volume: 36 L
Weight: 3 kg
Length: 700 mm
Height: 400 mm
Width: 300 mm
Hooks: Ezi Lock
Handle: Finger grips

Milk Bar™ XL 8
Code 910330
Volume: 60 L
Weight: 5 kg
Length: 850 mm
Height: 430 mm
Width: 460 mm
Hooks: Ezi Lock
Handle: Finger grips

Milk Bar™ XL 10
Code 910450
Volume: 90 L
Weight: 8 kg
Length: 1.2 m
Height: 460 mm
Width: 430 mm
Hooks: Aluminium
Handle: Finger grips

Milk Bar™ Lids - light weight lids with ergonomic handles.

962500 Milk Bar™ Training Bottle Lid
910103 Milk Bar™ 1 Lid (1 pcs)
910101 Milk Bar™ 1 Lid (5 pcs)
910201 Milk Bar™ 5 Lid (1 pcs)
910202 Milk Bar™ 5 Lid (5 pcs)
962501 Milk Bar™ Lid for Milk Bar™5 EL, Milk Bar™6 and XL4
962502 Milk Bar™ Lid for Milk Bar™ 10 and Milk Bar™ XL8
912101 Milk Bar™ Lid for Milk Bar™ 2 Compartment
912201 Milk Bar™ Lid for Milk Bar™ 3 Compartment
912251 Milk Bar™ Lid for Milk Bar™ 4 Compartment
912301 Milk Bar™ Lid for Milk Bar™ 5 Compartment

Milk Bar™ Compartments

Compartment feeders are a useful tool for sorting calves into groups.

Ideal for high concentrate, low volume systems.

The Milk Bar™ Teat evens out drinking speeds to reduce break away behaviour and bunting. Another great benefit of controlling the flow!

Compartments hold 2.5L and are easy to clean.

Milk Bar™ 2 Compartment

Code 912100

Volume:	2.5L ea.
Total Volume:	14 L
Weight:	2 kg
Length:	400 mm
Height:	400 mm
Width:	250 mm
Hooks:	Ezi Lock
Handle:	Finger grips

Milk Bar™ 3 Compartment

Code 912200

Volume:	2.5L ea
Total Volume:	19 L
Weight:	3 kg
Length:	500 mm
Height:	400 mm
Width:	250 mm
Hooks:	Ezi Lock
Handle:	Finger grips

Milk Bar™ 4 Compartment

Code 912250

Volume:	2.5L ea
Total Volume:	24 L
Weight:	3.5kg
Length:	660 mm
Height:	400 mm
Width:	300 mm
Hooks:	Ezi Lock
Handle:	Finger grips

Milk Bar™ 5 Compartment

Code 912300

Volume:	2.5L ea
Total Volume:	30 L
Weight:	4.5 kg
Length:	850 mm
Height:	390 mm
Width:	300 mm
Hooks:	Ezi Lock
Handle:	Finger grips

Milk Bar™ 10 Compartment

Code 912400

Volume:	2.5L ea
Total Volume:	70 L
Weight:	11 kg
Length:	1.13 m
Height:	430 mm
Width:	480 mm
Hooks:	Aluminium
Handle:	Finger grips and cut out handle

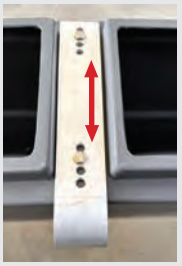
Milk Bar™ Straight Feeders

Straight line feeders are a great solution for larger groups of calves.

Ideally placed handles make these longer feeders easy to use and add strength.

Wide teat spacing accommodates calves shoulders.

Hooks are aluminium and are pre-drilled to easily adjust for different gate sizes.



Milk Bar™ 13
Product Code 910600
Volume:100L Height: 330mm
Weight: 10kg Width: 200mm
Length: 2.12m Handle: Two large moulded handles
Four aluminium hooks keep the feeder secure

Milk Bar™ 18
Product Code 910700
Volume:170L Height: 350mm
Weight: 16kg Width: 250mm
Length: 3.6m Handle: Five large moulded handles
Seven aluminium hooks keep the feeder secure

Milk Bar™ 15 Compartment
Product Code 912500
Volume: 2.5L ea Height: 350mm
Weight: 16kg Width: 210mm
Length: 3.3m Handle: Five large moulded handles
Seven aluminium hooks keep the feeder secure

User TIP!
Use a Milk Bar™ Teat Tool to make changing teats easy!
Product Code: 950400

Milk Bar™ Ad Lib 20

The new multi- use Ad Lib 20 feeder can be used as a gravity feeder for training and as a tube feeder for Ad Lib feeding!

A controlled milk flow in ad lib systems is critical to prevent nutritional scours.

Start young calves with the teats fitted at the bottom of the feeder. As the teats start to wear and the drinking speed increases, place the teats at the top and insert the tubes.

A perfect feeder for bobby calves!

Start young calves with new Milk Bar™ Teats fitted at the bottom of the feeder.

As the teats start to wear, transition the teats to the top of the feeder.
Put the blanking plugs to seal the bottom holes.

The lid keeps milk clean day and night.

Milk Bar™ Ad Lib 20
Code 910903
Volume: 120 L
Weight: 12 kg
Height: 900 mm
Width: 900 mm
Comes with Milk Bar™ Teats, blanking plugs, tubes, teat connectors, and a lid.

Cleaning:
Use Milk Bar™ Detergent or a dish washing detergent to remove the milk fat and protein build up. Once a week, remove the tubes and wash with hot water.

If you have homemade drum feeders, we have round back Milk Bar™ Teats, tubing and connectors available.
Call us on 0800 104 119 for more information!

Milk Bar™ Mobiles

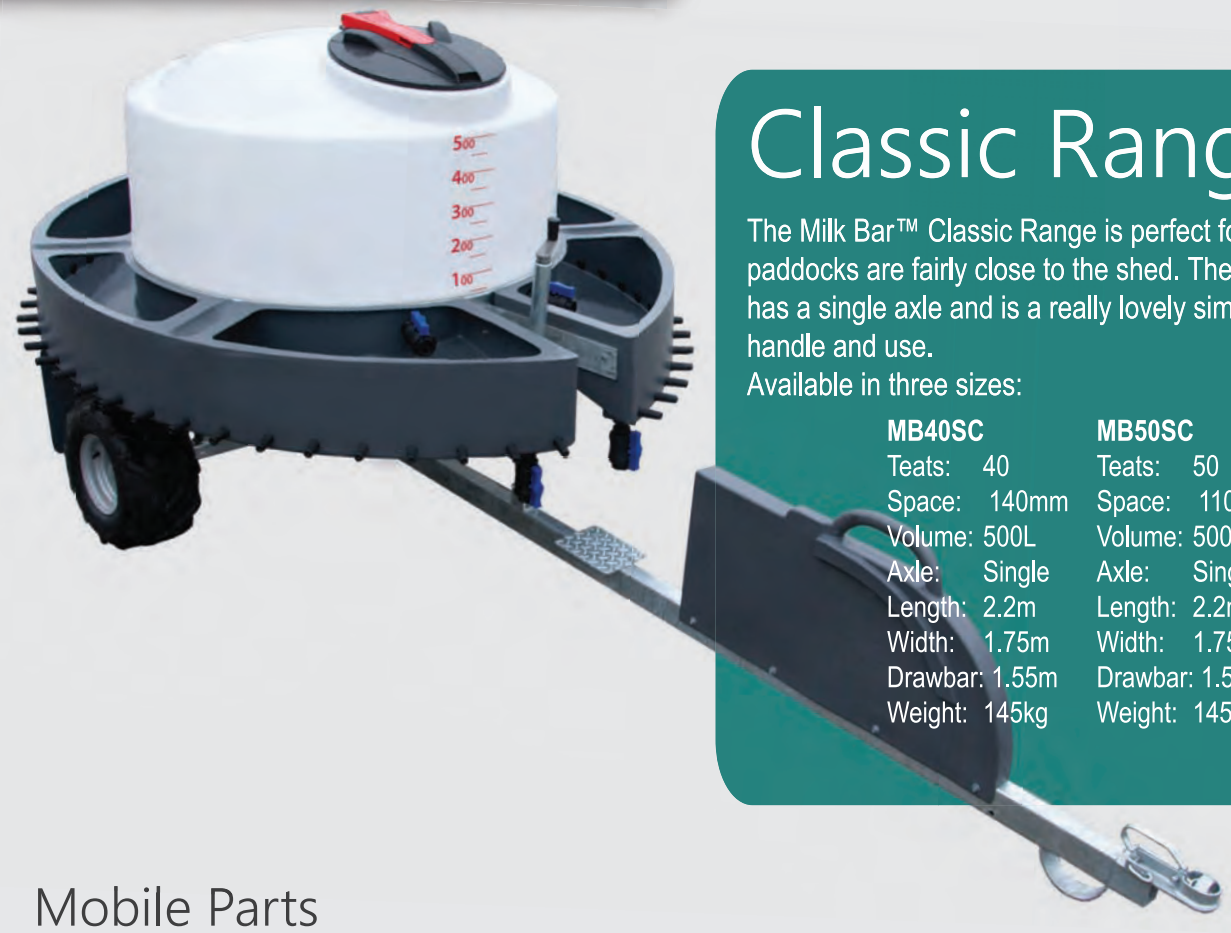
Opaque tank with gradients every 50 litres.

The manual leveller levels the tank and manifolds together, essential in uneven terrain.

Super hygienic with open manifolds.
No fiddly bits. No hard to clean pipes to connect the tank to the manifold.

Foot plate and easy access lid placement.

Round tank eliminates milk surge to improve stability.



Classic Range

The Milk Bar™ Classic Range is perfect for farms where calf paddocks are fairly close to the shed. The Classic Range has a single axle and is a really lovely simple feeder to handle and use.
Available in three sizes:

MB40SC	MB50SC	MB60SC
Teats: 40	Teats: 50	Teats: 60
Space: 140mm	Space: 110mm	Space: 110mm
Volume: 500L	Volume: 500L	Volume: 500L
Axle: Single	Axle: Single	Axle: Single
Length: 2.2m	Length: 2.2m	Length: 2.8m
Width: 1.75m	Width: 1.75m	Width: 2m
Drawbar: 1.55m	Drawbar: 1.55m	Drawbar: 1.25m
Weight: 145kg	Weight: 145kg	Weight: 150kg

Mobile Parts

Mobile Tanks
500L and 750L with marked gradients. 1.2m diameter. Taps not supplied.

Milk Bar™ Leveller
Replacement leveller for all models.

Rear Drawbar
Available for 50 and 60 teat feeders.

Mobile Manifolds
Available in: 25 Teats & 30 Teats

Ring Tokoroa Engineering for Milk Bar™ Mobiles, Milk Karts and Meal Savers! **0508 333 337**

Deluxe Range

Designed for longer distances and with a higher capacity.
Fitted with a set of large gauge springs for a more level tow and to minimise movement in uneven terrain.
The wheels climb over the top of sharp objects to reduce punctures.
Self lubricating and ultra durable centre bush.
Sideways levelling, drawbar handle, jockey wheel and an increased wheel base of 1.35m make the Deluxe Range up to the toughest job!

MB40SD
Teats: 40
Space: 140mm
Volume: 500L
Axle: Single
Length: 2.2m
Width: 1.75m
Drawbar: 1.55m
Weight: 145kg

MB40TD
Teats: 40
Space: 140mm
Volume: 500L
Axle: Tandem
Length: 2.2m
Width: 1.75m
Drawbar: 1.55m
Weight: 184kg

MB40T750D
Teats: 40
Space: 140mm
Volume: 750L
Axle: Tandem
Length: 2.2m
Width: 1.75m
Drawbar: 1.55m
Weight: 184kg

MB50SD
Teats: 50
Space: 110mm
Volume: 500L
Axle: Single
Length: 2.2m
Width: 1.75m
Drawbar: 1.55m
Weight: 145kg

MB50TD
Teats: 50
Space: 110mm
Volume: 500L
Axle: Tandem
Length: 2.2m
Width: 1.75m
Drawbar: 1.55m
Weight: 184kg

MB50T750D
Teats: 50
Space: 110mm
Volume: 750L
Axle: Tandem
Length: 2.2m
Width: 1.75m
Drawbar: 1.55m
Weight: 184kg

MB60SD
Teats: 60
Space: 110mm
Volume: 500L
Axle: Single
Length: 2.8m
Width: 2m
Drawbar: 1.25m
Weight: 157kg

MB60TD
Teats: 60
Space: 110mm
Volume: 500L
Axle: Tandem
Length: 2.8m
Width: 2m
Drawbar: 1.25m
Weight: 196kg

MB60T750D
Teats: 60
Space: 110mm
Volume: 750L
Axle: Tandem
Length: 2.8m
Width: 2m
Drawbar: 1.25m
Weight: 196kg

Cleaning

A few simple steps and your feeder is clean and ready to go.

1. Use the leveller to drain the tank and manifolds and rinse.
2. Level the mobile. Lightly scrub the tank and manifolds using hot water and a gentle, **non-chlorinated detergent**.
3. Clean the teats with a horizontal scrubbing action. This bends the teats, forcing water back and cleans the inside of the teat.
4. Rinse clean and you're done!

Super Deluxe Range

Large numbers of calves requires extra functionality such as a limitless steering axle and extra long drawbar to keep tractor wheels away from the manifolds when turning.
High spec 75 x 50mm box section steel chassis with suspension improves the ride and tandem axles at the rear give strength.
Front to back as well as sideways levelling gives all calves their share of milk.
Twin tanks holding 550L ea with marked gradients are connected with 50mm taps and plumbing.

Milk Bar™ 80

Teats:	80		
Volume:	1100L	Manifold Volume:	400L
Front Axle Track:	1.18m	Rear Axle Track:	1.58m
Length:	5.5m	Width:	1.8m
Height:	1.2m	Drawbar:	2m

Milk Bar™ 100

Teats:	100		
Volume:	1100L	Manifold Volume:	500L
Front Axle Track:	1.18m	Rear Axle Track:	1.58m
Length:	7.1m	Width:	1.8m
Height:	1.2m	Drawbar:	2m

Milk Kart 550L

The Milk Kart 550L is ideal for delivering milk to large numbers of calves.
45cm diameter opening and drain tap for easy cleaning.
550L tank with marked gradients and large carry tray.
Available in three options:
MBMK550C Milk Kart 550 Classic: Gravity outlet only.
MBMK550D Milk Kart 550 Deluxe: Complete with a 12 Volt submersible pump.
MBMIX550 Milk Kart Mixer: Complete with 2" poly electric start petrol pump.

Meal Saver

Weather and pest proof, the Meal Saver eliminates meal wastage!
It won't blow over in the wind and keeps meal dry and edible.
Calves easily lift the counterbalanced lids and training is easy.

Volume: 150kg	Length: 1.2m
Height: 730mm	Width: 800mm

NZ Pat # 585960

Ring Tokoroa Engineering for Milk Bar™ Mobiles, Milk Karts and Meal Savers! **0508 333 337**

Milk Bar™ Calf Covers

Absolute top quality, anatomically designed cover for calf safety and comfort.

Sturdy plastic clips and adjustable leg/ belly straps.

Extremely durable, 600 denier, waterproof and breathable material with a cosy 200 gm fill.

A rubber layer within the coat is a physical barrier that water cannot penetrate but has tiny holes that allows air to circulate so calves do not get damp.
Wash at 40 degrees between calves.

Using a Milk Bar™ Calf Cover helps the calf to stay warm without using valuable calories. When temperatures drop below 10 C, a young calf will start to feel cold and burn energy to maintain body temperature.
A study in the UK compared 40 Holstein calves reared from December through February. 20 received calf jackets from 2 to 12 weeks of age, and 20 did not. The researchers found that calves wearing jackets gained an average of 5.2 kg more weight!

Milk Bar™ Calf Cover
M Code 970010
L Code 970011
XL Code 970012
In a gorgeous teal, your calves will be warm and dry for years to come.

Size guide:
M - 24" to fit Jersey's
L - 28" to fit Holstein's
XL - 32" to fit large Holstein/ beef calves.

Who says functional has to be boring! Why not brighten up your winter feeding, your calves will not only be super warm and comfortable but will look utterly gorgeous in these designs!

Milk Bar™ Moolabelle
M Code 970013
L Code 970014
XL Code 970015

Milk Bar™ Festive Flora
M Code 970016
L Code 970017
XL Code 970018

Milk Bar™ Denim Daisy
M Code 970019
L Code 970020
XL Code 970021

While stocks last!

Milk Bar™ Waterers

Water helps development of the rumen and is essential for digestion and the metabolic function of the calf. Even slight dehydration will affect the metabolic function and reduce feed intake.

Milk Bar™ Waterers are fitted with the McInnes Float Valve which has a protected tongue.

Waterers have a smaller volume so water is constantly refilling for freshness.

All our waterers have a channeled drain point to make cleaning easy.

Milk Bar™ Pen Waterer 1
Product Code 935100
Volume: 8 L Height: 575mm
Weight: 3.5kg Width: 275mm
Length: 330mm Hooks: Screws to wall

Milk Bar™ Pen Waterer 3
Product Code 929001
Volume: 20 L Height: 610mm
Weight: 7kg Width: 300mm
Length: 910mm Hooks: 50mm hooks

Milk Bar™ Pen Waterer 6
Product Code 935500
Volume: 20 L Height: 610mm
Weight: 7kg Width: 300mm
Length: 910mm Hooks: 50mm hooks

The Milk Bar™ Pen Waterer Range keeps water free from dust, bird and animal poop. These waterers come with a 20mm riser to connect to your water supply. Especially good for calves, goats and kids!

Snack Water Trough
Product Code 935300
Volume: 15 L
Weight: 2.5k Length: 650mm
Height: 130mm Width: 200mm
Hooks: 25mm
Use between adjoining pens.

McInnes Float Valve
Product Code 935402
Weight: 600gms Length: 220mm
Height: 110mm Width: 100mml
PSI: 80psi 20mm male thread inlet.
The protected tongue stops calves flooding pens.

Milk Bar™ Meal Feeders

Growth rates are accelerated when calves have access to meal and water from day one.

The enzymes in grains stimulate and develop the rumen. From around six weeks, the rumen starts to contribute towards the calfs energy. At this point, if the calf is eating a kilo of meal, you can start to reduce milk.

Braden Start Bottle
Product Code 930100
Volume: 500gms
Weight: 2kg
Length: 200mm
Height: 300mm
Width: 200mm
Hooks: Plastic strap
Keeps grain fresh, dry and increases consumption.
Braden Start Bottle Replacement Nipple: Milk Bar Code 930200

Snack Bar
Product Code 930800
Volume: 8kg
Weight: 2kg
Length: 650mm
Height: 130mm
Width: 200mm
Hooks: Moulded 25mm

Munch Trough
Product Code 930700
Volume: 20kg
Weight: 4kg
Length: 800mm
Height: 530mm
Width: 300mm
Hooks: Moulded 50mm
High back and sides prevents spillage.
Ideal for horses!

Milk Bar™ Bird Proof
Product Code 930900
Volume: 40kg
Weight: 12kg
Length: 1m
Height: 850mm
Width: 300mm
Hooks: Aluminium
Cover keeps contents dry and the curtain keeps birds out.
Easy fill rear hatch. Feeds 30 calves ad lib inside or out.
Replacement curtain: Product Code 930910

Milk Bar™ Mineral Protector
Code 929002
Weight: 3 kg Length: 330 mm
Height: 575 mm Width: 275 mm
Hooks: Screws to wall
Holds a standard lick block or loose mix.
Sloping top prevents climbing.
Perfect for goats!!

Using Milk Bar™ as a preventative system

Feeding with a controlled milk flow is an important factor in growing calves to their full genetic potential.
Milk Bar™ Teats are specifically designed to control milk flow to improve calf health and in doing so, reduce time and costs. So, how to implement the system on your farm?

Equip your shed

Many farms are not properly equipped for the intense NZ season.
If you're having to wait for calves to finish drinking before moving feeders, you don't have enough feeders. Milk Bar™ feeders are extremely durable, often lasting in excess of 20 years. By taking into account your time/ staff wages, investing in a feeder per pen pays itself off before the end of the first season.

For example:
You have 6 pens of 10 calves. Each group of 10 will take around 15 minutes to drink at a healthy speed.
If you have 1 feeder for all the pens, that is 90 minutes of drinking time plus cleaning and filling.
If you have 1 feeder for each pen, that is 15 minutes of drinking time plus cleaning and filling.
If you add the cost of your time or wages, using 1 or 2 feeders for all pens is not cost effective.

	1 Feeder	2 Feeders	3 Feeders	4 Feeders	5 Feeders	6 Feeders
Time						
Average drinking time per group (minutes)	**15**	**15**	**15**	**15**	**15**	**15**
Number of groups	**6**	**6**	**6**	**6**	**6**	**6**
Total Drinking Time (minutes)	90	45	30	22.5	18	15
Cleaning time (minutes)	10	13	16	19	22	25
Total time per feeding (minutes)	100	58	46	42	40	40
Total time per day (minutes)	200	116	92	83	80	80
Cost						
Wages per day @ $35 per hour	$ 116.67	$ 67.67	$ 53.67	$ 48.42	$ 46.67	$ 46.67
Wages per week	$ 816.67	$ 473.67	$ 375.67	$ 338.92	$ 326.67	$ 326.67
Equipment						
Milk Bar 10 @ $295 each	$ 295.00	$ 590.00	$ 885.00	$ 1,180.00	$ 1,475.00	$ 1,770.00
Time to return investment						
Weekly labour savings		**$ 343.00**	**$ 441.00**	**$ 477.75**	**$ 490.00**	**$ 490.00**
Weeks to recoup feeder outlay		2	2	2	3	4

In this example, a fully equipped shed with 6 feeders, has a weekly savings in time of $490 p/w. Over the course of a season, the savings are significant: $490 x 10 weeks = $4900.
If you spread that over a conservative 15 year life of the feeder, the savings become influential.

Have dedicated training feeders

Using a couple of feeders fitted with Milk Bar™ Training Teats takes the hassle out of the first few feeds.
The teat is softer, but still controls flow and ensures young calves produce enough saliva.
Avoid using a fast flow teat at this vulnerable stage of a young calf's development.

Manage your teats to get the full benefit of the Milk Bar™ system!

The Milk Bar™ Teat works hard, allowing your calves to suckle longer and protecting them from the effects of fast flow feeding.

To manage calf health, Milk Bar™ Teats control the flow for around 110 feeds. After around 110 feeds, the teat will be well worn having been used for about 1650 minutes!
The rubber will have lost it's 'bounciness' and the slit will start to stay a little open causing it to drip.

The danger for your calves is that it will start to feed too quickly. When this happens, the problems that Milk Bar™ Teats are designed to reduce, start to emerge.

For example:
In a shed with 6 groups being fed with 1 feeder, teats will need to be replaced every 9 days. With a feeder per pen, teats will need to be replaced every 8 weeks.
The total amount of teats is the same, but the time replacing teats should be factored.

We use Milk Bar™ Teats to prevent our calves cross suckling. *Paula, Taupo*

When used correctly, Milk Bar™ Teats are a tool to manage your calves, and to prevent health problems from fast feeding.

		1 Feeders	2 Feeders	3 Feeders	4 Feeders	5 Feeders	6 Feeders
Number of groups	6						
Feeder use per day		12	6	4	3	2.4	2
Number of weeks with controlled flow		1.3	2.6	4	5	6.5	8

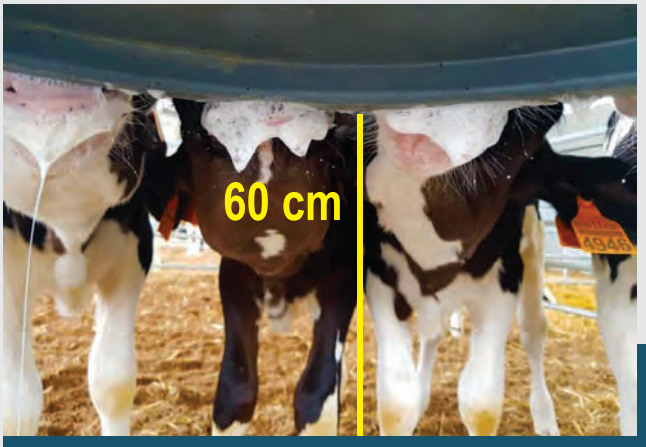
The easiest way to manage teat performance is to number your feeders and record when that feeder had new teats fitted.

- Number the feeders.
- Calculate how many times per day that feeder is used.
- Divide 110 by the number of feedings per day. This will tell you when you need to diarise teat replacements.

I don't have Milk Bar™ feeders but I want to control milk flow..

No problem, Milk Bar™ Screw Caps will fit onto feeders with caps. Just pull the Milk Bar™ Teat through, line up the slit and your good to go!

Milk Bar™ Screw Caps
Code 961200
Qty: 10



For the correct neck position, make sure teats are around udder height (60cm or knee height) from the bedding. This combined with a controlled milk flow protects the airways from milk overflowing into the trachea.

Producing high quality heifers vs a cheap calf

Studies are proving that feeding the traditionally accepted 10% of body weight is detrimental to developing a high quality heifer and that feeding 20% BW has numerous benefits such as improved first lactation performance, earlier conception and better immunity.
Further studies show that there is no negative impact of rumen development by feeding higher volumes of milk.

Restricted milk and increased grain is a cheap way to grow a beef calves, but does not support the growth required for future production heifers.

'In conclusion, MR feeding strategy (increased milk replacer) did not influence ruminal development. Feeding calves 6 L of MR/d over 60 d resulted in greater rate of weight gain without negative effects on starter intake or forestomach development.'
2014 American Dairy Science Association

We conclude that milk-fed dairy calves can safely ingest milk at approximately 20% of body weight (BW)/d.
Greater milk consumption supports greater BW gain, improved feed efficiency, reduced incidence of disease.
Growth factors in milk may also enhance the growth and maturation of the gastrointestinal tract.
Greater nutrient supply through increased amount of milk appears to improve immune function and long-term performance of heifer calves;
for example, reducing the age at first breeding and increasing first-lactation milk yield.
2011 American Dairy Science Association.

When feeding higher volumes, use the Milk Bar™ Teat as a tool to control the milk flow. This helps prevent an overflow of raw milk into the intestines and so reduces the risk of nutritional scours.

Developing the mammary glands

Stimulating mammary gland development of heifer calves, is key to future herd performance.
A study on the effects of increased nutrition pre-weaning on mammary gland development was carried out by the Virginia Polytechnic Institute and State University.

Study

Two groups of 18 Holstein heifer calves were housed individually with ad libitum access to water.
Control (CON) group: 454 g CMR @ 20% CP, 20% fat
Accelerated group (ACC): 1135 g of CMR @ 28% CP, 25% fat
Starter feed was introduced at week 5 and the amount of calf milk replacer fed in both groups was reduced to 50% to prepare calves for weaning at 8 weeks of age.
The calves teats were measured weekly and udders were examined through palpation and visual examination. At weaning, six calves per treatment were euthanised and the mammary glands were removed, weighed and dissected.

Results

Calves	ACC	CON	Calves	ACC	CON
Front teat length	1.3cm	0.9cm	Parenchyma	10.5gm	1.4gm
Rear teat length	1.2cm	0.8cm	Mammary fat pads	173gm	29gm
Udder weight	198gm	38gm			

Conclusion

The results of this study are in line with those of other researchers who found that elevating the pre-weaning plane of nutrition in dairy calves has a strong, positive impact on mammary gland development.

NZ Pat Appln 787055 PCT Patent Application PCT/NZ2020/050110
International Patents pending.

Milk Bar™ Lamb & Kid Teats

Milk Bar™ Lamb & Kid Teats work in harmony with the digestive system to improve animal health.

The specialised flow control helps saliva to form to boost immunity and strengthen digestion.

Improved digestion produces heavier, more robust lambs and kids.

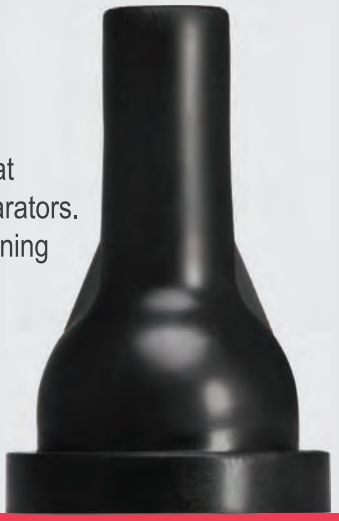
Controlled flow prevents gorging to reduce bloat.

Pull through design for greater hygiene.

Milk Bar™ Lamb/ Kid Training Teat
Code 900400
Quantity: 10 per pack
Specifically formulated to support young or weak animals. Use for the first few feeds. After a few days, move lambs & kids to the Milk Bar™ Teat for continued health benefits.

Milk Bar™ Lamb/ Kid Teat
Code 900200
Quantity: 10 per pack
Code 900210
Quantity: 100 per pack
For best results, insert new Milk Bar™ Lamb & Kid Teats into feeders at the start of the season.
Lambs and kids can then suckle at the correct speed until weaning to reduce bloat and scours.

Milk Bar™ Lamb/ Kid Automatic Training Teat
Code 900630
Quantity: 10 per pack
Fits typical automatic feeder teat stations and Milk Bar Teat Separators.
A softer compound to make training easier.



Milk Bar™ Lamb/ Kid Automatic Teat
Code 900620
Quantity: 10 per pack
Fits typical automatic feeder teat stations and Milk Bar Teat Separators.
Controls the flow for exceptional results.

Milk Bar™ Automatic Teat Connector
Code 929505
Quantity: 10 per pack
Connects Automatic Teats to tubes.

Saliva has antimicrobial properties that boosts immunity and is produced through suckling with a controlled flow of milk. The controlled flow allows the digestive system to function and the milk to correctly curd to reduce the problems of diarrhoea and bloat.

Milk Bar™ Lamb & Kid Feeders

Feeders come with either large cut out handles, or secure finger grips, or both.

Easy to clean with sleek lines. No threads, no valves to trap milk or interfere with milk flow.

Low teat channel reduces milk waste.

Milk Bar™ Lamb & Kid feeders come fully assembled with teats fitted and ready to use.

Milk Bar™ Lamb/ Kid Bottle

Code 928100

Volume: 3 L
Weight: 600 gms
Length: 350 mm
Height: 150 mm
Width: 120 mm
Handle: Carry handle

Milk Bar™ Lamb/ Kid 1

Code 928200

Volume: 3 L
Weight: 700 gms
Length: 210 mm
Height: 210 mm
Width: 210 mm
Hooks: Moulded 25mm
Handle: Finger grips
Lid available

Milk Bar™ Lamb/ Kid 3

Code 928300

Volume: 3 L
Weight: 700 gms
Length: 210 mm
Height: 210 mm
Width: 210 mm
Hooks: Moulded 25mm
Handle: Finger grips
Lid available

Milk Bar™ Lamb/ Kid 7

Code 928400

Volume: 15 L
Weight: 2 kg
Length: 300 mm
Height: 360 mm
Width: 300 mm
Hooks: Moulded 25-40mm
Handle: Carry handle

Milk Bar™ Lamb/ Kid 10

Code 928500

Volume: 36 L
Weight: 3 kg
Length: 700 mm
Height: 400 mm
Width: 300 mm
Hooks: Ezi Lock
Handle: Finger grips
Lid available

Milk Bar™ Lamb/ Kid 20

Code 928525

Volume: 100 L
Weight: 10 kg
Length: 2.12 m
Height: 330 mm
Width: 200 mm
Hooks: Four, adjustable aluminium hooks
Handle: Moulded handles

Milk Bar™ Lamb/ Kid 30

Code 928900

Volume: 120 L
Weight: 12 kg
Diameter: 900 mm
Height: 600 mm

Brilliant for large groups, the solid base keeps the feeder secure even with 30 animals pushing it around!

Optional extra lid! Code 928527
Sloped design stops lambs and kids climbing onto it.

Compartment Feeders

Milk Bar™ Lamb/ Kid 5 Compartment

Code 928600

Volume: 300 ml ea
Weight: 2 kg
Length: 680 mm
Height: 180 mm
Width: 170 mm
Hooks: Ezi Lock
Handle: Finger grips

Milk Bar™ Lamb/ Kid 10 Compartment

Code 928650

Volume: 300 ml ea
Weight: 3.4 kg
Length: 1.3 m
Height: 210 mm
Width: 170 mm
Hooks: Ezi Lock
Handle: Finger grips

Ad Lib Feeders

Small, frequent meals can be beneficial to lambs and kids, but leaving feeders in pens can be a problem as they love to bite the teats leading to milk loss. The higher teat placement stops teats leaking when they are bitten.

Milk Bar™ Lamb/ Kid Ad Lib 9

Code 929600

Volume: 15 L
Weight: 3 kg
Length: 700 mm
Height: 400 mm
Width: 300 mm
Hooks: Ezi Lock
Handle: Finger grips

Milk Bar™ Lamb/ Kid Ad Lib 27

Code 928526

Volume: 142 L
Weight: 9 kg
Diameter: 900 mm
Height: 600 mm

Stable base keeps it secure.
Comes fitted with teats, tubes and a lid.

User TIP! Kids have sharp teeth and like to bite teats causing damage and regular teat replacements. Choosing feeders with extra teat spaces reduces biting so the teats last longer.

Milk Bar™ Teat Separators

The Milk Bar™ Teat Separator connects Milk Bar™ Lamb/ Kid Automatic Teats to Automatic Feeders.

Controlled milk flow to reduce bloat ease digestive problems.

Adjustable teat height.

Teats are protected from biting to reduce teat replacements.

Slide the separators into place. Adjust the teat height so lambs & kids drink at the correct height and speed until weaning.

Attach the board to the side of the pen and connect the teats to the automatic feeder.

Teats are protected from biting and lambs have a secure channel to drink from.

Milk Bar™ Teat Separator *for Kids*

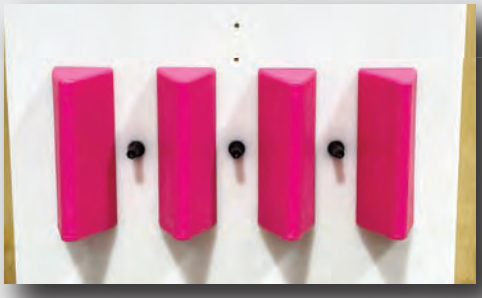
Available in 2, 3 or 4 teat stations, the Milk Bar™ Teat Separator for kids comes complete with fittings and teats.

2 Teats	3 Teats	4 Teats
Code: 929510	Code: 929500	Code: 929520

Milk Bar™ Teat Separator *for Lambs*

The Milk Bar™ Teat Separator for lambs has a wider channel to accommodate larger lambs heads.

2 Teats	3 Teats	4 Teats
Code: 929705	Code: 929700	Code: 929710



Easy to install, follow the QR to see the installation video!

Prevention is better than cure.
We only make teats that control milk flow.

MILK BAR™
easy for you, healthy for them

www.milkbar.co.nz
hello@milkbar.co.nz