



# ROTARY FEED SYSTEMS



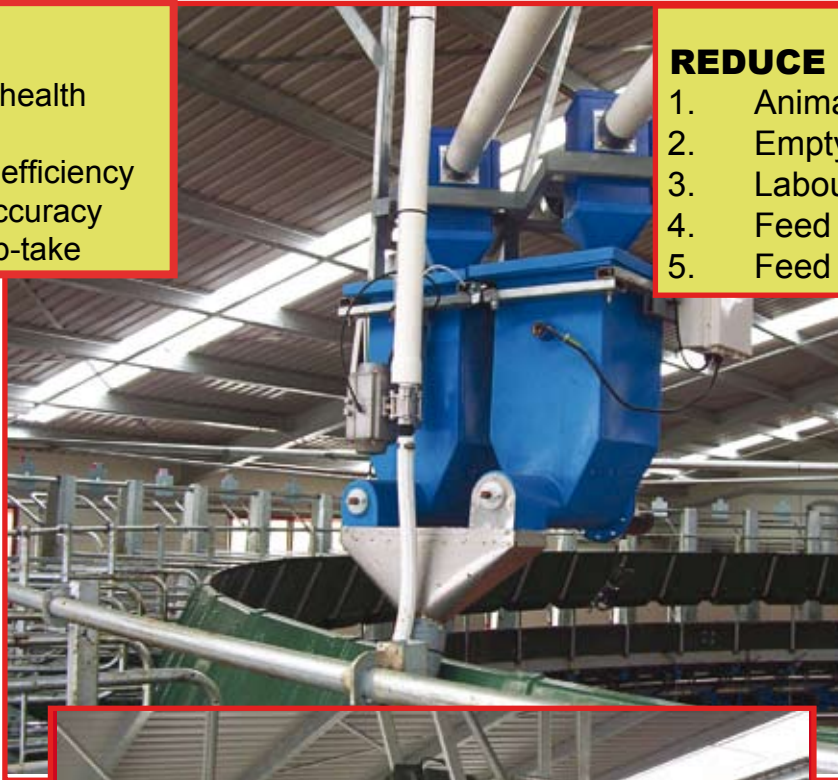
PPP manufactured & installed New Zealand's first dairy feed system in 1967

### IMPROVE

- 1. Animal health
- 2. Fertility
- 3. Labour efficiency
- 4. Feed accuracy
- 5. Feed up-take

### REDUCE

- 1. Animal health costs
- 2. Empty rates
- 3. Labour costs
- 4. Feed out costs
- 5. Feed wastage



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**Our aim is to help New Zealand farmers achieve greater profitability  
While still having time to enjoy the good things in life**

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# A little history about us...

PPP Industries Ltd was formed in 1962 and was originally set-up as a poultry equipment manufacturer and parts supply company. In the early 1970's the technology used in the poultry industry was adapted, combined with some good kiwi ingenuity, and New Zealand's first commercial in-shed dairy feeding systems were created.

Since the 70's the systems which we have supplied have constantly evolved whilst maintaining a focus on being user-friendly and cost effective. Dairy in-shed feed systems are now our main product and we are focused on providing systems which meet the demands of New Zealand farmers.

From time to time we service systems which were installed in the 70's and 80's and it's great for farmers to know that when they need service work or upgrades in the future, that we will be there to back our products. As testament to that longevity PPP have three staff members who have been with the company since day one!

**Save time and money with a PPP in-shed dairy feed system**



**SUPPLEMENTARY FEEDING OF MEAL IS A RECOGNISED MANAGEMENT TOOL IN IMPROVING ANIMAL HEALTH, AND THEREFORE PRODUCTIVITY.**

**HAVING A PPP AUTOMATIC MEAL FEEDING SYSTEM IN YOUR SHED REDUCES LABOUR AND GIVES YOU QUIETER AND HAPPIER COWS DURING MILKING.**

# A Why choose a PPP feed systems?

Investment in R&D has ensured today's modern dairy farmers using PPP feed systems are meeting the demands placed on them.

Simple to use with virtually no labour in-put  
Very low maintenance requirements  
Very low running costs  
In-built safety features  
Very accurate feed drops for each cow every time  
Individual feed drops  
Stainless steel feed trays or individual feed bins  
Molasses & water injection options available  
Mineral additive options available  
Silo sizes to suit different farms  
A system that can handle a wide range of feed

## Why are farmers installing PPP feed systems?

Accurate & individual dispensing ensures costs are controlled  
Grass silage costs approximately 3.37cMJME  
Meal options range in price from 2.60 c MJME – 3.00 c MJME  
Typical wastage for silage varies between 10% - 30% - meal is 1% - 2%  
Grain is more consistent in quality than silage  
Less grass substitution occurs with grain than with silage and hay  
Capital investment for feed systems is lower than a silage feed out set up  
Grain is more efficient at putting on cow condition than maize silage  
Silage ties up capital in a bunker and meal is purchased when required

### **NATIONWIDE COVERAGE OFFERING**

Installation agents and after sales back-up in the following regions;

- Northland
- Tuakau – PPP offering coverage over all the Waikato region
- Matamata
- Reperoa
- Bay of Plenty
- Hawkes Bay
- Manuwatu
- Taranaki
- Wairarapa
- Nelson
- Canterbury
- West Coast
- Otago
- Southland



# PPP rotary feed system

## A PPP Rotary Feed System offers many unique features for farmers:

1. PLC (programmable logic control) control unit which allows greater controls on what the farmer can do and hence feed to cows.
2. Greater feeding accuracy
3. Ability to feed a wide variety of different feeds
4. Mineral dispensing
5. Molasses dispensing
6. Water injection
7. Automated system that doesn't dispense feed into empty bales
8. Automated system that doesn't feed meal to cows doing a 2nd lap on the platform\*
9. Optional individual feed bins or stainless steel trays
10. Multiply feed lines that can feed more than one type of feed into the shed
11. Direct drive units that offer less maintenance and are quite when operating
12. Very easy feed adjustment rates to match herd requirements
13. Fully integrated with RFID herd management systems



Attached to the bottom of a silo is a coreless auger driven by a single phase direct drive unit



The coreless auger delivers feed to a feed dispenser  
The feed dispenser is fitted with a variable speed industrial rated motor and attached to this motor is an auger.  
The feed dispenser motor is the motor that turns on/off for every cow

Feed is dispensed either into individual feed bins or stainless steel feed trays



# How does a PPP feed system work?

- Feed is conveyed from the silo into the shed via a coreless auger.
- The coreless auger is driven by a direct drive unit.
- The direct drive unit is mounted above the feed dispenser and drops feed into this dispenser.
- The feed dispenser with its industrial variable speed motor rations feed out to each cow – this is the motor that will turn on/off for every cow.
- When the feed dispenser is getting low in feed a capacitive sensor fitted into the dispenser sends a signal to the cross auger motor to start up and will turn off automatically when the feed dispenser is full
- As each bale passes by the feed dispenser feed is rationed out to the cow
- Detection sensors pick up empty bales and cows doing double laps on the platform and will automatically not feed meal - SAVING MONEY!
- If molasses and water injection are added on as options, these are controlled by the PLC unit so all the features with the feed system will also be applied to the additional equipment fitted.
- The touch screen control unit allows the farmer to very easily make feed rate adjustments and importantly allows a very high degree of accuracy compared to anything else on the market – such as simple cross auger system delivering feed to the cow.



# PPP Rotary feed dispenser



## **Feed Dispenser**

Single Unit – single coreless auger line delivering feed  
Double Unit – double line delivering 2 x different feed types



## **Control Panel**

A touch screen control panels enables a farmer to make quick & easy feed adjustments and allows a very high degree of accuracy as to match feed dispensed to cow demand.

## **Standard Features**

- PLC control panel – allowing for additional inputs
- Touch screen for easy adjustment rates
- Individual feed bins or Stainless steel trays
- Silo size to match cows numbers
- In-line direct drive units
- Reliable flexi-auger
- Low maintenance
- Auto miss feed for reversing platform

## **Additional Features**

- Auto miss-feed to empty bail
- Auto miss-feed for cow round twice
- Molasses injection
- Water injection

## **Simple Cross Auger Feed Systems**

- PPP also offer a simple cross auger system with a timer control box
- This system is very simple and is cheaper but it does not have the feed saving advantages of the PLC feed dispenser



# PPP Feed System Options

## Silos

– *where feed is stored, standard silo is 25m<sup>3</sup> approx. 14 tonnes pelletised feed*

- Single Silo
- Double Silo in-line (same feed)
- Double Silo – side/side (2 x different feed)

## Feed Auger line

– *connected to outside silos*

- Single auger line – can be used for one or more silos in-line
- Double auger line – is connected to 2 x separate silo with different types of feed

## Dispenser & Control Unit Options

- *PLC (programmable logic control) to control feed going to every cow*

- Single Feed Dispenser PLC control – single auger line connected to one or more silos
- Double Feed Dispenser PLC control – double auger line 2 x separate silos
- Feed auger line PLC control – simple auger line but with all the features of PLC control
- Feed Auger line less PLC control with simple timer on/off per bale

## Feed Trays

- *from where cows will eat feed*

- High sided feed bins – complete with “U” bale dividers
- Stainless Steel Trays – complete with “P” bale dividers

## Optional Extras

- Cow detection sensors
- Water injection
- Molasses injection
- In-Line mineral dispenser
- Load cells
- Grain Milling systems



# PPP Rotary Molasses Systems

## Feed dispenser with molasses injection



Feed dispenser with water injection  
(different to molasses valve)

## ROTARY MOLASSES SYSTEM

Molasses is delivered into the shed via a high pressure density PVC line with a specialised molasses pump.



# PPP Mineral Additive Systems

**In-Line Mineral Additive Dispenser**  
Allows minerals to be added to feed



**Platform Mineral Additive Dispenser**  
Allows minerals to be added to feed



## **ROTARY PLATFORM MINERAL DISPENSER**

A small hopper or silo outside the shed supplies minerals via an auger line to the mineral platform dispenser - totally automated.



## **ROTARY IN-LINE MINERAL DISPENSER**

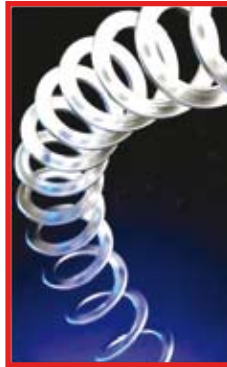
The advantage in having an in line mineral dispenser or mineral dispenser on the platform it allows you the farmer to purchase the cheapest grain on the market and you then add in your minerals.

The commonest product dispensed is causmag but there are advantages in having special brews mixed to meet your particular herd needs.

# PPP augers



PPP coreless augers used on in shed feed systems

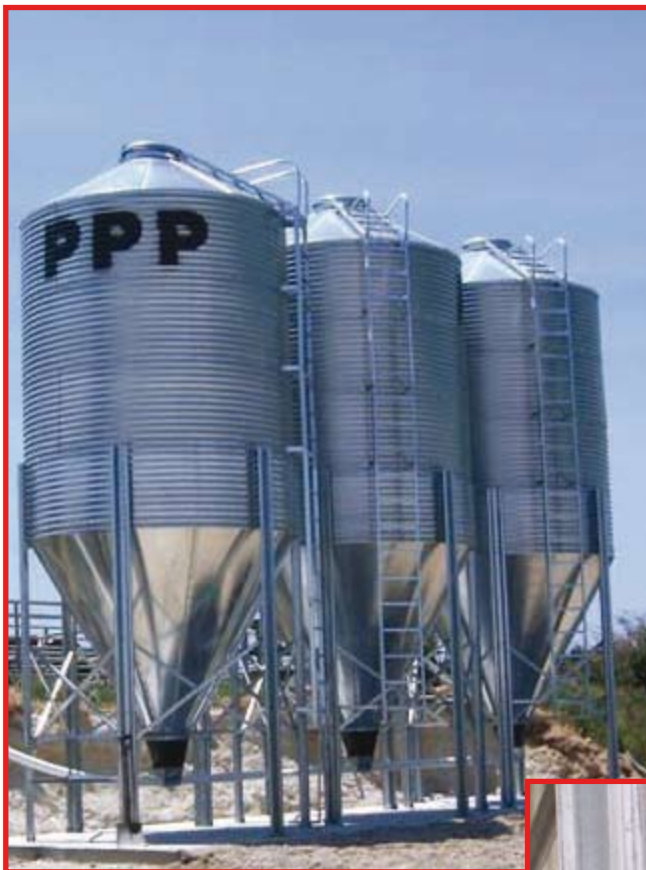


PPP auger options for filling bulk grain orders directly from trucks



PPP unloader utility augers for removing grain from silos into silage feed out wagons or other applications

# PPP silo options



Bag out chute

PPP silos typically hold 25m<sup>3</sup> of feed or about 16 tonnes of wheat and 14 tonnes of pelletised feed.

A typically auger feed truck holds 12 tonnes of feed

Silos are delivered assembled and bolted onto concrete silo pads Each silo comes complete with a ladder, ground operated lid opener and a bag out chute to remove small amounts of feed.

## CONCRETE SILO PAD FOUNDATIONS

9 ft (2.74 m) diameter X 4 ring (6.8 meters high) - standard PPP feed system silo  
3.3 meters square x 250 mm thick steel reinforced with 665 mesh  
- these meet NZ building codes

# PPP CONTACT DETAILS

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## MISSION STATEMENT

PPP Industries is a New Zealand owned and based leading provider and distributor of livestock equipment specifically designed to increase farm profitability.

The company was formed in 1962 to manufacture equipment for the local market and since the early 1970's has also been supplying solutions outside New Zealand.

