

# PPP

## HERRINGBONE FEED SYSTEM

HARDY, LOW MAINTENANCE, RELIABLE FEED SYSTEM



# PPP

*Innovative Agriculture Equipment*

Designers & Manufacturers of Innovative Agriculture Equipment

0800 901 902

***pppindustries.co.nz***

PPP have been designing, manufacturing and installing innovative agriculture equipment since 1962. Based on this experience, PPP can offer you a superior feed system, delivering exact quantities of feed coupled with the knowledge that our commitment to you is for the lifetime of your shed with our system. PPP have a nation-wide installation and after-sales dealership network, from Kaitia in the North Island down to Invercargill in the South Island, ensuring you obtain prompt after-sales support.

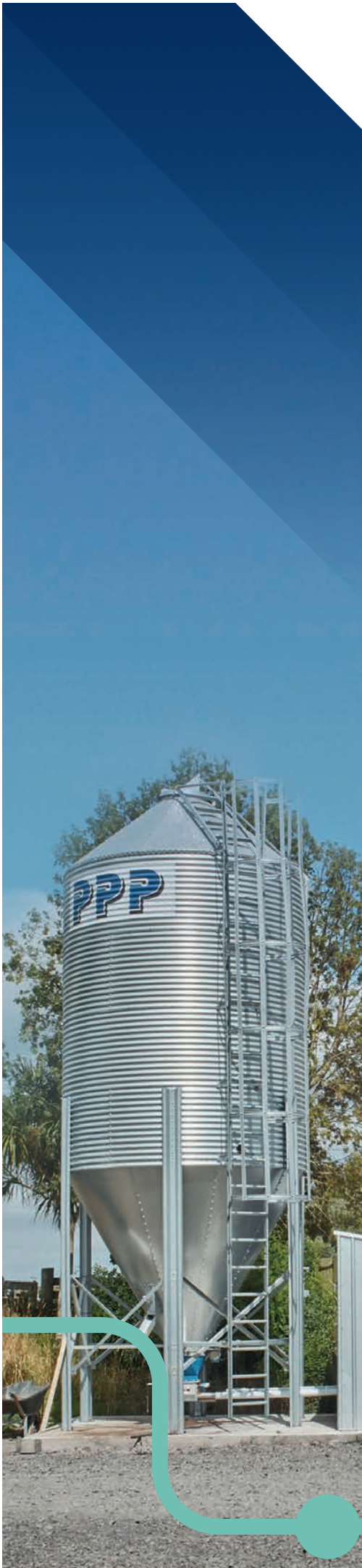
**SALES@PPPINDUSTRIES.CO.NZ - TUAKAU, NEW ZEALAND**

# PPP INDUSTRIES

**PPP** are based in North Waikato, and have been manufacturing innovative agricultural equipment since 1962.

Ever since PPP put the first feed system into a New Zealand shed way back in 1967, we have been continually growing our company's reach and products to where we are today.

We now have over 4,000 feed systems around the country and continue to be industry leaders in supplying and installing quality feed systems to every region across NZ.





# TODAY,

we combine a wealth of knowledge and experience, from 60 years of business with world-class products and kiwi ingenuity. We apply new ways of thinking and high-quality components from all over the world to produce systems that suit individual clients' needs, are reliable, user friendly, and have a proven reputation. This results in PPP supplying systems that allow the end-user to experience the highest level of confidence and peace of mind.

**PPP INDUSTRIES** are so confident in our gear that we provide a **two year warranty** on your feed system and **twelve months** on electrical. We also back it up with top notch after-sales service and technical support.



# PPP

## HERRINGBONE FEED SYSTEM

### THE DISPENSER

#### ● **MULTI-USE LARGE INLET HOLE.**

(60mmx50mm)

This allows for easier flow of PKE and large nuts into the dispenser. The dispenser is also able to be used on 75mm and 90mm auger tube.

#### ● **PULLEY FOR DROP BALL**

Built-in pulley system minimizes the pull cord cutting into dispenser.

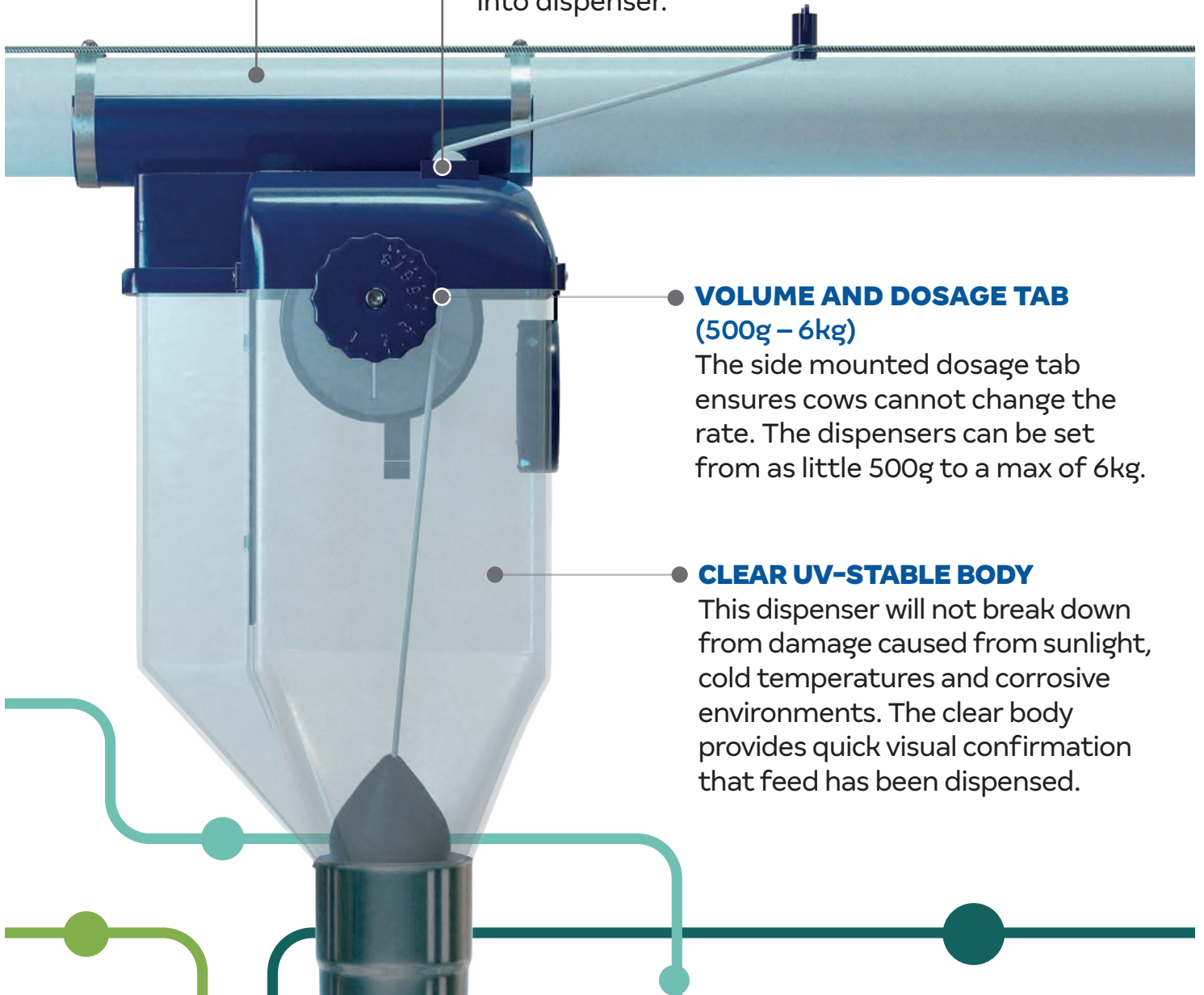
#### ● **VOLUME AND DOSAGE TAB**

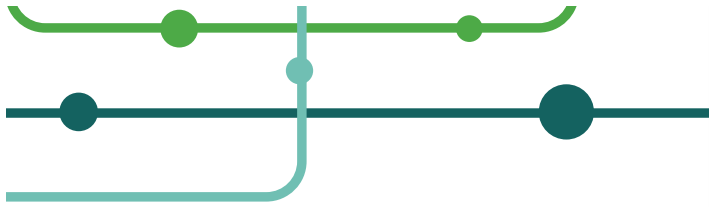
(500g – 6kg)

The side mounted dosage tab ensures cows cannot change the rate. The dispensers can be set from as little 500g to a max of 6kg.

#### ● **CLEAR UV-STABLE BODY**

This dispenser will not break down from damage caused from sunlight, cold temperatures and corrosive environments. The clear body provides quick visual confirmation that feed has been dispensed.





### **65° ANGLE SINGLE BASE CONE**

Improves flowability of difficult mixes such as PKE. Dispenses with a lesser angle base are prone to bridging.

### **TEAR DROP SHAPED DROP BALL**

Seals off the bottom of the dispenser at any angle it falls at due to the round base. The pointed top also pulls up through feed easily.

### **LARGE OUTLET (77mm)**

Improves product flow and reduces bridging issues meaning you can use 100% Palm Kernel.

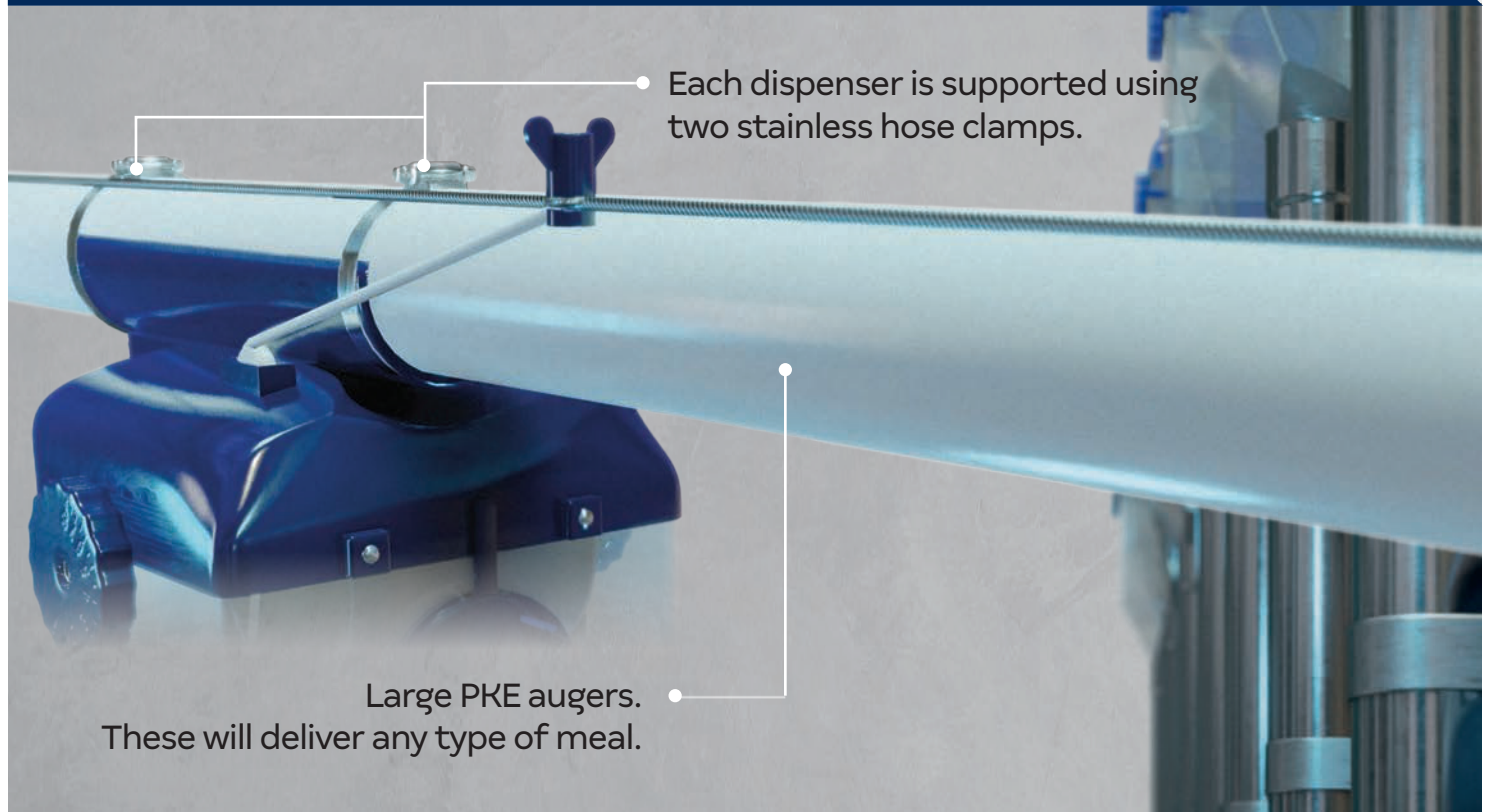
### **STAINLESS-STEEL DROP TUBES**

This stops cows from breaking your drop tube and provides a strong, clean, rust resistant finish.





# INSIDE THE SHED



• Each dispenser is supported using two stainless hose clamps.

• Large PKE augers.  
These will deliver any type of meal.

**PPP's** tray design creates a very strong continuous stainless steel tray with end cap and safety lip. We use large sheets of stainless to give the trays a high back so cows don't spill meal over the back of tray.

**PPP** also Supply  
Molasses/Liquid/Proliq  
feeding systems.



One dispenser is used per bail with individual shut off. This means that feed is dropped in front of each cow but can also be turned off if not being used.

We have a clear multi feature dispenser to deal with PKE type feeds that you can visually see the feed in the dispenser from the pit.



Bracket support for the UV stable plastic dispenser, being supported by 25x50 RHS down the shed.

Tightly fitting flared stainless steel drop tubes.

Each dispenser supported in three places for extra strength.

Heavy duty stainless steel saddle strap.





# INSIDE THE SHED

## PULL CORDS



**ONE OF THE MOST COMMON WEAR POINTS IN FEED SYSTEMS AROUND NZ ARE THE PULL CORDS AND PULL CORD HANDLES.**

For this reason **PPP** only uses 4mm stainless steel wire rope coupled with galvanized pipe pull levers and heavy duty pulleys.

By using stainless steel, rusting is eliminated meaning you have a much cleaner and longer lasting system.

The way we are doing our pull cords also means that even a small person is able to dispense a full row of full dispensers through the 1 to 3 ratio pull lever.

**OUR HEAVY DUTY 90MM PULLEYS ALSO MEAN THAT YOU WON'T HAVE ANY CABLE WEARING INTO THEM LIKE A SMALLER LASER QUALITY PULLEY WOULD.**





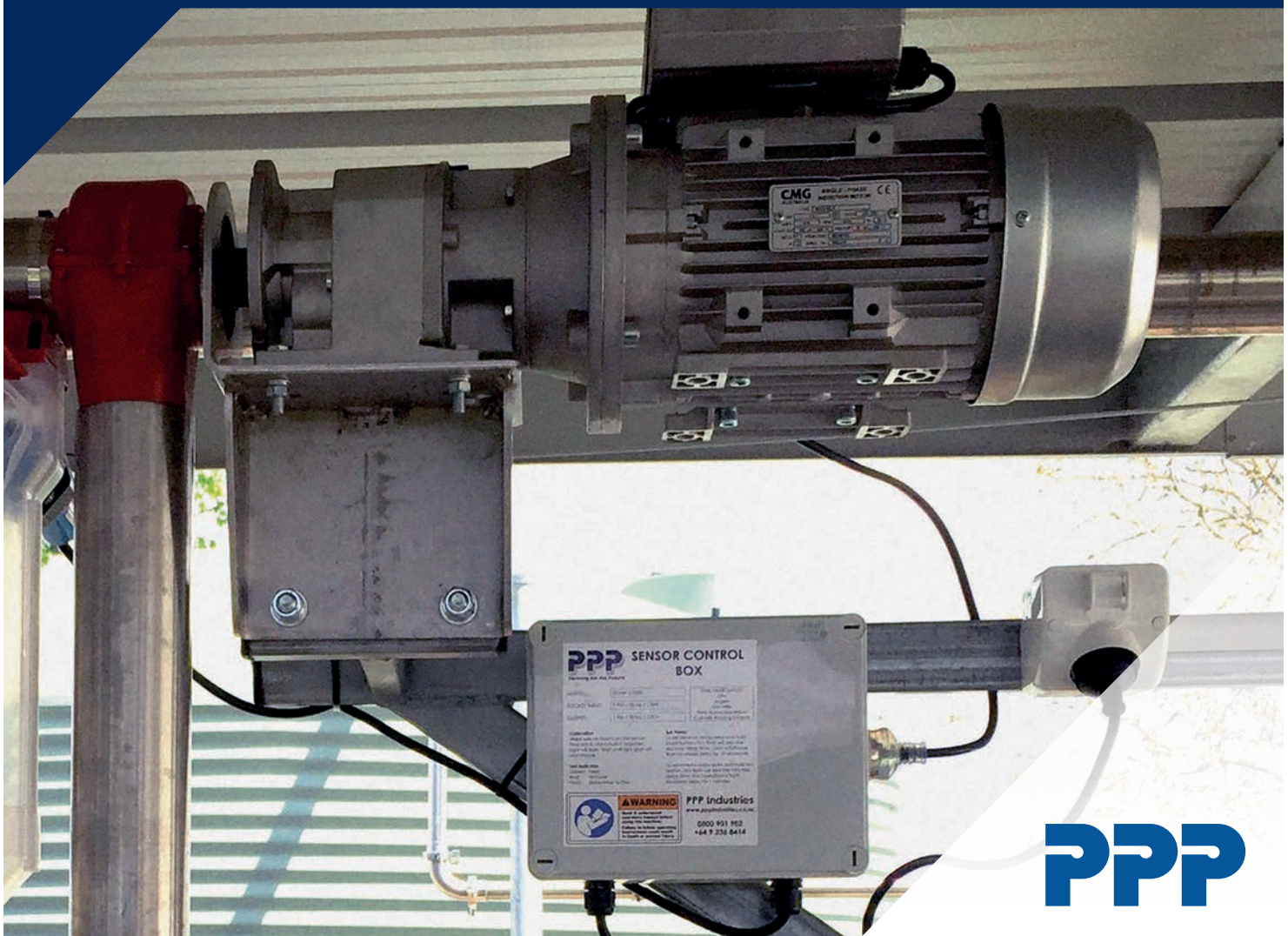
# DRIVE UNITS / CONTROL BOXES

The drive units we use with our feed systems are large 1.5kw (2hp) motors, with German made Nord direct drive reduction gearboxes.

We couple this with specially made stainless steel motor mounts. We do this as part of the feed system that is the most important to make sure there is smooth hassle-free running. By using stainless steel motor mounts it ensures that the high-wearing, business end of the system runs as it should. Every **PPP** feed system comes standard

with a New Zealand made control box and a high quality proximity sensor for each side of the shed. This means that the electrician will only need to supply power to each side via a three pin single phase wall plug.

These control boxes reliably control the starting and stopping of the auger line with a built in adjustable delay to ensure accurate refilling. The sensors can also be disconnected and the motors run manually if needed.



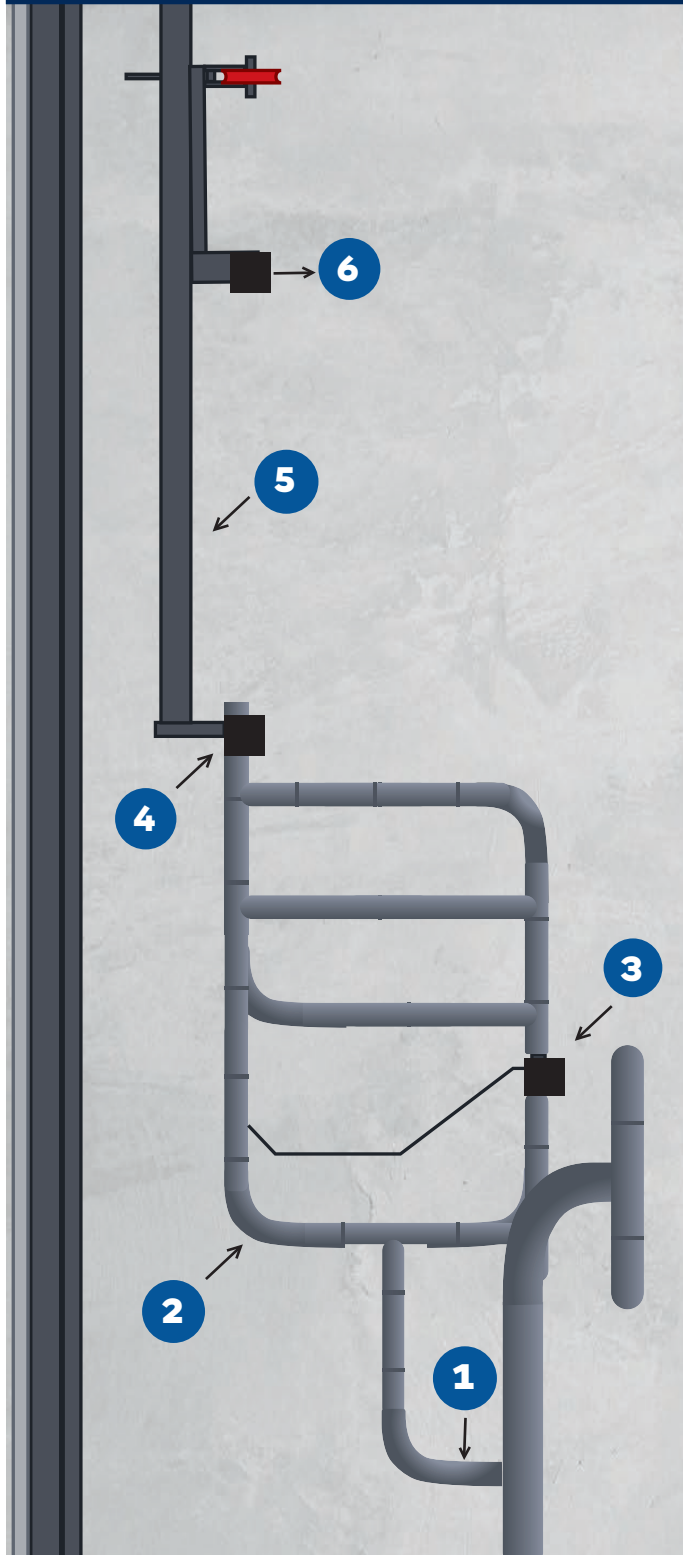
**PPP**

# INSIDE THE SHED

## SCHEMATICS

### STARTING FROM THE BOTTOM OF THE PICTURE

- 1** To support our dispensers and trays we generally weld to the fixed bottom part of the breast rail with a hockey stick.
- 2** This hockey stick is then welded to a profile.
- 3** This profile is supported at the front and the back with 25x50 RHS steel running along the length of the shed.
- 4** We then run a support to the rafter where it is either bolted or welded on.
- 5** On this upright is where we weld our 25x50 RHS steel support for our dispensers that also runs the length of the shed.





# OUTSIDE THE SHED

## AUGER

**PPP INDUSTRIES** auger tube is specially made PVC with formed hardened feed system bends imported from Germany. This compounded PVC, makes it resistant to ultraviolet light and resistant to wear.

Our flexible feed auger also has higher tensile strength than competitive auger (Hardness **40-43 ± 1.5 HRc**). Meaning more durability and dependable performance! This auger is designed to be highly energy-efficient, long-wearing and trouble-free.

These quality components prolong the life of the biggest wear point in a feed system.

All Auger over the yard will be braced with **25x50 RHS** under the line and supported using stainless steel auger clamps. This stops bullying cows damaging the auger line across the yard.





# OUTSIDE THE SHED

## MINERAL DISPENSER

**OVER THE PAST 20 YEARS PPP INDUSTRIES HAVE BEEN CONTINUOUSLY DEVELOPING OUR MINERAL DISPENSER TO THE PRODUCT WE HAVE TODAY.**



PPP mineral dispensers are designed with ease of use coupled with the knowledge of what works and what doesn't work. This means that the design we have today ensures that there is no bridging of minerals and accurate feeding. They can be used with Powders (such as causmag), Prills, and Pellets.

It is recommended that they are ideally put inside a small shelter but



Our mineral dispensers are NZ made for the products and conditions that we have here.

Herringbone mineral dispensers come standard with two 35kg hopper (one for each side of the shed), A mini vibrator for each hopper and its own Control Box. This means that the electrician will only have to supply power and a signal wire to the unit, therefore no large unexpected bill to make their own control box.



# SILO

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## ACCESSORIES

### SILO VIBRATOR



**PPP Silo Vibrators** come standard with their own control box, meaning less wiring costs for the sparky as it only needs to be supplied power. They also come standard with two proximity sensors for each silo. We use two as there needs to be a sensor over each auger line to make sure it picks up small bridges in the silo.

The Control box also means that the vibrator only goes when needed. If the vibrator ran unnecessarily then they will cause more harm than good (compacting meal, rattling bolts loose).

If the vibrator runs for longer than two minutes then it automatically shuts off. It does this because the control box has a built in function to shut off the vibrator when the silo is empty.

### BAG OUT CHUTE



**Bag Out Chute** for getting meal out for calves and or sick cows etc.

PPP silos have the optional ability to get a hopper valve or bag out chute for accessing small amounts of meal for cows or calves.

# SILO

**PPP INDUSTRIES** import our silos from the largest silo manufacturing company in Europe. The silos are built to withstand coastal conditions as well as snow, sandstorms, high wind speed and humidity. The end result is that **PPP** silos are built NZ-tough, with thick legs and panels, and thick galvanizing ideal for NZ conditions.

**PPP** silos have 650 gr/m<sup>2</sup> galvanized sidewall sheets at total on both surface compared to our competitors who are only around 275 – 350 gr. / M<sup>2</sup>. Each bolt also has a high density polyethylene conical gasket, so that sealing is kept at the highest level.

**PPP** silo sidewall sheets have the most narrow corrugation in the world which is 65 mm compared to other companies 70 – 100mm. This creates a strong silo ideal for NZ conditions.

**PPP** silo roll-formed legs provide significantly greater strength over simple angle iron legs and the double cross bracing ensures that the load is evenly spread providing greater strength, stability, and support.

All silos come standard with a certified ladder and ladder cage as per NZ regulations for ladders exceeding 6m in height. Each ladder has dimpled non-skid rungs that provide convenient access to the top if needed.





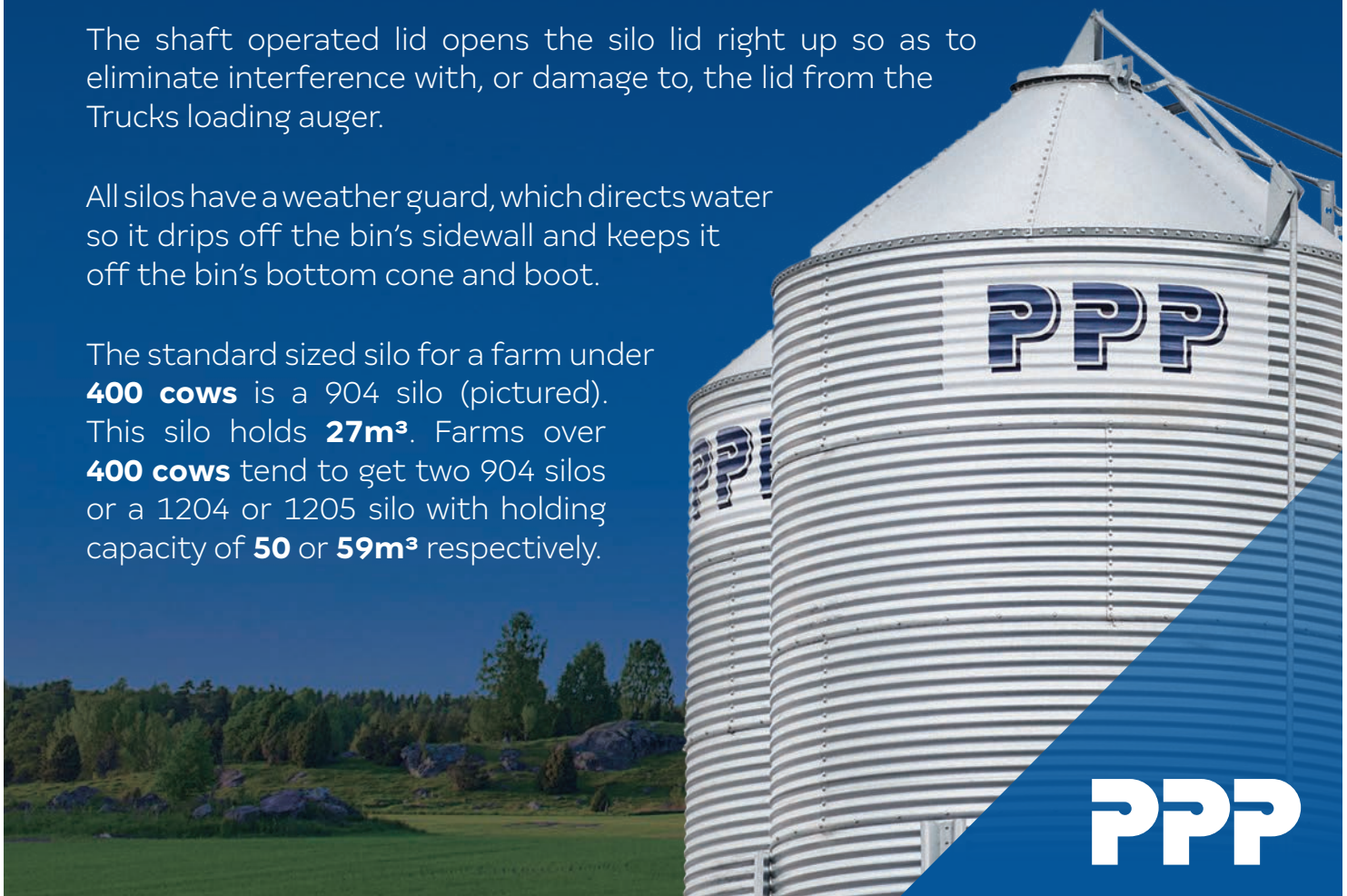
- ▶ **PPP SILOS HAVE 40° ROOFS, THIS MATCHES THE NATURAL INCLINE ANGLE OF REPOSE FOR STORED FEED. THIS MAXIMIZES USABLE FEED STORAGE CAPACITY.**
- ▶ **THE ADDITIONAL HEIGHT HELPS THE TRUCK DRIVER TO SEE THE FILL HOLE MORE EASILY SO ASSISTS THEM IN POSITIONING THE FILL AUGER PROPERLY.**
- ▶ **ANOTHER BENEFIT OF THE 40° ROOF IS THAT THEY HAVE MORE CAPACITY THAN STANDARD 30° SILO ROOFS (2 CUBIC METERS MORE).**
- ▶ **A CLEAR SIGHT GLASS COMES AS STANDARD WITH EACH 9FT SILO.**

**PPP** silos support a shaft operated lid opener. This means that the silo lid can only be in open or closed position. This means that the user will have no worries of spring operated lids rusting at the hinge like other systems.

The shaft operated lid opens the silo lid right up so as to eliminate interference with, or damage to, the lid from the Trucks loading auger.

All silos have a weather guard, which directs water so it drips off the bin's sidewall and keeps it off the bin's bottom cone and boot.

The standard sized silo for a farm under **400 cows** is a 904 silo (pictured). This silo holds **27m<sup>3</sup>**. Farms over **400 cows** tend to get two 904 silos or a 1204 or 1205 silo with holding capacity of **50** or **59m<sup>3</sup>** respectively.



**PPP**





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*Innovative Agriculture Equipment*

60  
YEARS  
EST 1962



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