

Comfortable cows produce more milk, but cows can only be comfortable if they are comfortable with their diet – an optimally formulated, well-mixed, properly delivered ration. Proper wagon maintenance and mixing can ensure that you are getting a consistent feed mix and maximising the effects of your dairy cattle nutrition programme. Learn how to get the best results from your mixing wagon with these five-by-five top tips.

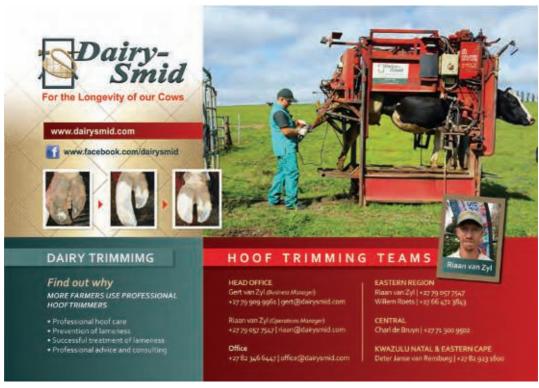
TRACE MINERALS AND ADDITIVES

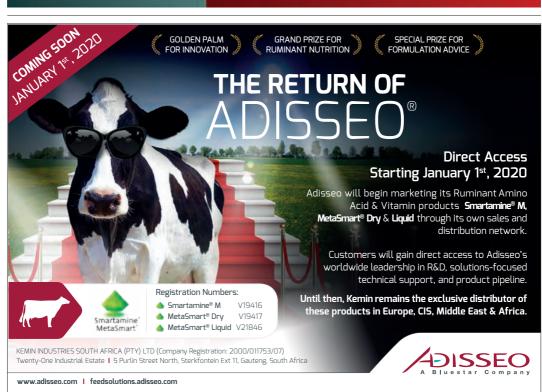
Adding performance trace minerals and other additives to your dairy cattle nutrition programme is an important step in boosting animal performance and productivity, but it is equally important to ensure that all of the feed components are consistently being mixed into the feed ration. Most large,

6 Effective wagon mixing strives for accurate blending of the ration to match what your operation's nutritionist has formulated. ●

modern dairy operations use vertical or horizontal mixer wagons. Vertical mixer wagons are the most popular, especially for those dairy operations that are feeding dry hay that needs to be processed.

Effective wagon mixing strives for accurate blending of the ration to match what your operation's nutritionist has formulated. If you're not getting a consistent mix of the feed, you will see sorting in the feed bunk. This can lead to the cattle consuming less fibre and more concentrates than expected,





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thereby lowering the rumen pH. Furthermore, all animals may not be getting adequate levels of trace nutrients due to inconsistent mixing.

All mixer wagons work as intended when they are new. It is important to remember that

the internal components will wear out and require periodic servicing or replacement. The bottom line is this: after six months, don't expect the wagon to perform the way it did the day it arrived.



1. LOOK INSIDE THE EMPTY MIXER

Check for feed left inside after the last feeding, count the knives and look at their condition, observe the kicker plate and notice any excessive wear, and check placement of baffles.

2. LOOK INSIDE THE MIXER WHEN MIXING

Safely climb on a platform and observe when the mixer is one-third full, half full, and full. Look for mixing action above the auger, at the tub divider, and around the discharge door, and notice the location of any dead feed areas.

3. WATCH THE MIXER DURING UNLOADING

Do a ride-along, or use a GoPro camera to determine whether feed inside the mixer is unloading evenly. Even with a front discharge door, the feed level in each tub should be close to equal.

4. MONITOR LOADING TECHNIQUE

Keep the mixer turning while loading the ration. When loading ingredients with small inclusion rates, or a small load, it's best to load down the side wall of the wagon instead of dumping the ingredient directly over the augers. Use a spreader bar for loading liquid ingredients. Load ingredients on a level surface and allow at least five minutes of mixing time after adding the last ingredient.

5. UNLOADING

Correctly distribute feed along the bunk (close enough to avoid cows reaching) and use correct tractor revolutions per minute (RPM), speed, and door opening to provide even flow of feed and level feed-out.









The Revolutionary Free Flow 4 Auger System: Counter cutting bars produces a sharp cut of the roughage, reducing mixing time and saving costs.



The rear loader makes it possible to load any shape of silage or roughage by hand.



The reverse gear allows for qiuck release of any obstructions resulting · in less down time



The closed hydrualic system reduces hydraulic oil contamination to the



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POINTS TO REMEMBER TO GET THE BEST MIX



- Regular maintenance.
- Mix on a level surface.
- 3. Keep the mixer wagon running while adding the feed components.
- 4. Smaller loads require special attention.
- 5. Remember the proper mixing order.*

*First, add feed components that will require particle size reduction, such as dry hay or lucerne, to break down the forage length. If the total mixed ration (TMR) includes highmoisture grass silage (>70%), place this forage in the mixer first, especially if it's in bale form. Allow time for this ingredient to break apart and level out in the mixer before adding other feed components.

Add concentrates and minerals second. It's important to add these down the inside wall of a vertical mixer wagon to ensure they do not stick to the top of the screws. This is also a good time to add molasses to the mixing wagon to give it additional time to consistently mix with the other feed components. Finally, add any silage that will make up the final part of the mixing order, followed by liquids, including whey and water.

SIGNS OF AN INCONSISTENT MIX

- 1. Dead spots in the mixer.
- 2. Uneven feed levels from the front to the back of the mixer
- 3. If feed in the feed bunk looks wavy, this may indicate that the augers are not keeping up with each other to push the feed out in a uniform manner.
- 4. Unmixed or inconsistently mixed feed.
- 5. Worn kicker plates will also affect the consistency of the TMR.



CONCLUSION

Proper observation and maintenance enable us to catch problems before they affect the cows, keeping our cows comfortable and optimally productive.mpo