

# Vertical Auger Feeder

V7, V10, V12, V14, V16, T14, T16, T20, T24, T27 Models



The Hi-Spec range of Vertical Diet Feeders is ideal for the farmer who wishes to incorporate complete bales into his feed mix.

The Hi-Spec Vertical Feeders use a central mixing and chopping auger to produce a market leading quality mix in a machine that is simple to maintain, has a low horsepower requirement and an exceptional reliability record. Exclusive to the Hi-Spec range of Vertical Feeders is the availability of a discharge roller system which can provide a very consistent feed discharge rate.

Features of the Vertical Feeder include a low pitched auger designed to produce a faster and better mix with a consistent feedout rates, faster cutting of bales due to the adjustable arrangement of high quality self-sharpening knives, an electronic weighing system for accurate mixing and our unique hinged bale ring which helps prevent spillages.

Hi-Spec Vertical Feeders are robust, user friendly machines which improve farm profitability.



## Benefits of Complete Diet Feeding

- Improved milk yields
- Better liveweight gain
- Improved health and fertility
- Lower feed costs
- Better use of homegrown feeds
- Precise knowledge of what's in your ration
- Less labour required



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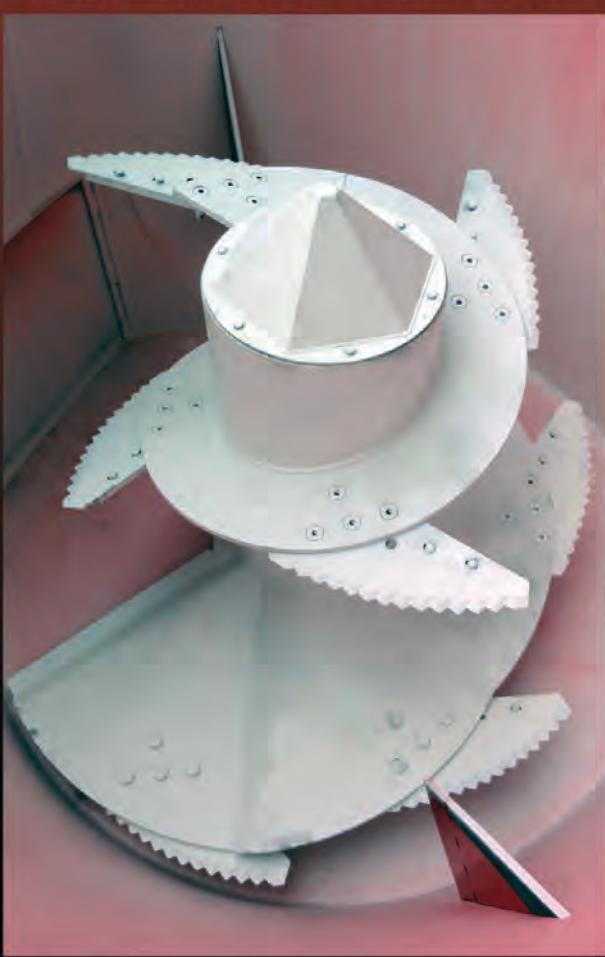
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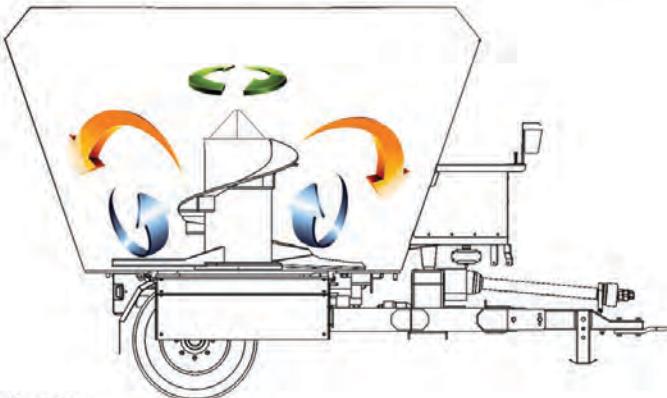
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# Mixing Principles

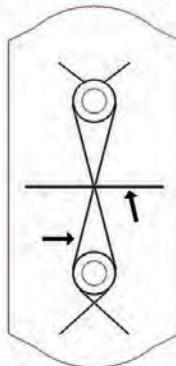


The Hi-Spec Vertical Diet Feeder works by using a central auger to carry out both the mixing and chopping functions. The auger does this in a very simple cycle action, drawing the feed up and then allowing it to fall to the outside of the diet feeder and be drawn back down for the cycle to begin again. The auger is fitted with self sharpening chopping knives and during this auger mixing cycle the feed is being constantly chopped. The end result is a feed which is thoroughly mixed and has a length of 5 - 10cm depending on the operators desired result.



## Advantages

- Unique auger design produces faster and better mix
- Faster cutting of bales because of unique knife arrangement
- Lower horsepower requirement because of auger design
- Complete emptying of feed from the body
- Only two double acting spool valves are required to carry out all hydraulic functions - no extra valves are required even with an elevator or cross conveyor
- Direct mounting of the auger to the heavy duty planetary gearbox for easy maintenance and excellent reliability
- Easily accessible gearbox oil reservoir fitted as standard
- High quality self sharpening knives
- Knives mounted on 15mm steel plate brackets for added strength
- Knives are adjustable to 3 positions for added flexibility
- Curved in top section of body to prevent feed spillages when mixing while giving added strength to the body
- High quality steel used through-out; 8mm plate in the outer body, 15mm plate for the mixing auger and 20mm plate in the floor, complete with reinforcing as seen below



# Nutritional Advice

Purchasing a Hi-Spec Vertical Auger Feeder gives you instant access to experienced nutritional advice from Dr. Alan McIlmoyle BAgri (Hons) PhD FBIAC, a highly qualified Nutritionist who has over 40 years of experience in both ruminant research and nutrition.

Feeding a Totally Mixed Ration (TMR) to ruminants is regarded as an important step in achieving optimum performance - be that as increased milk yield/improved milk quality or increased liveweight gain in beef cattle or lambs.

Many livestock farmers have come to rely on the years of experience built up by nutritionists working in association with feed compounders to produce a high quality compound ration to complement home grown forage.

However, following the purchase of a diet feeder, many farmers leave aside this experience, opting instead to put together their own rations or fail to change their diets to suit the changes from year to year in silage quality or, equally important, to recognise the annual improvement in animal performance, due to genetic improvement.

As an independent, self-employed Nutrition Consultant, who set up McIlmoyle & Associates ([www.mcilmoyleassociates.co.uk](http://www.mcilmoyleassociates.co.uk)) over 20 years ago, he is there to ensure that livestock farmers operating a TMR system, meet their objectives in terms of optimum performance at minimal cost. This will normally involve the utilisation of home grown feeds and forage, ensuring that the diet is properly balanced for energy source, protein quality and minerals. Ensuring that the correct diet is fed will help meet your objectives for performance and the genetic potential of your stock.



Dr Alan McIlmoyle



## VHD Conveyor (optional)

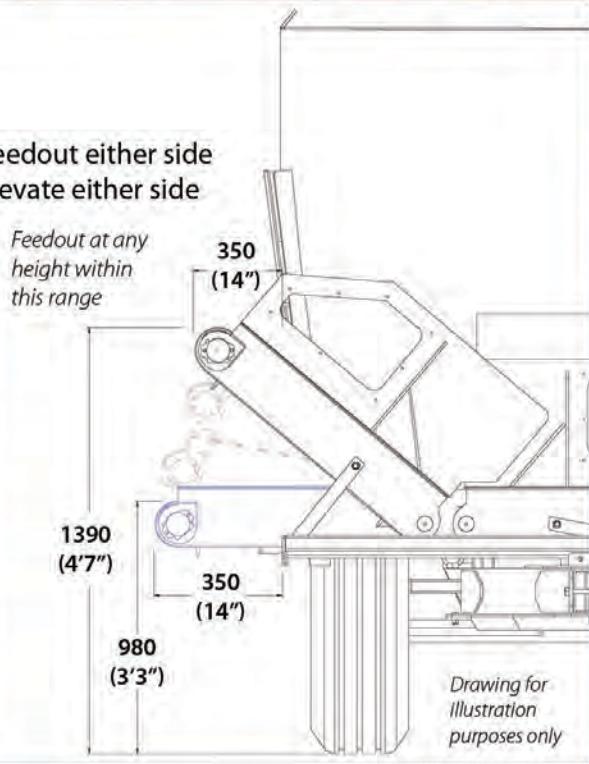
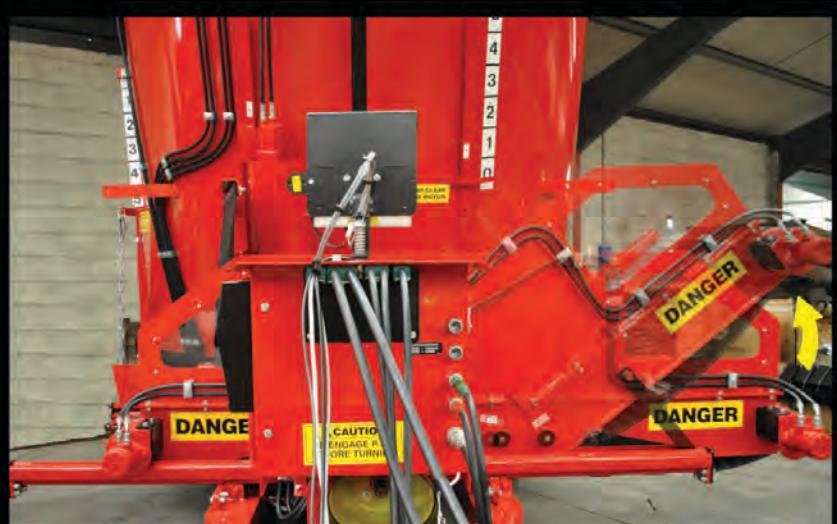
Variable Height Discharge

### Features

- Modular belt system

- Discharge heights to suit your needs
- No expensive elevator attachment

- Feedout either side
- Elevate either side



# Features



**Inspection Ladder**  
Folds in for transport



**Electric Hand Controls** Standard on feeders with VHD conveyors & straw blowers, optional on all other models



**Adjustable Counter Knives**



**Adjustable Self Sharpening Chopping Knives**



**Chute Discharge** Guillotine door complete with chute discharge



**Gearbox Oil Reservoir**



**Bale Ring** Unique hinged bale ring helps prevent spillages and reduces horsepower requirements



**Weighing System** Easy to use programmable weighing system, with herd count facility, allows up to 200 different ingredients to be recorded.

# Optional Extras



**Beet Chopping Knives**

**TMR Tracker** is a feed management system that provides livestock farmers with a total solution to manage feed costs, promote efficiency and improve production



**Tandem Axle** Both bogie and sprung type available



**Discharge Elevator**

Our unique patented elevator moves from the working position at the side of the machine to the transport position at the front of the machine. This prevents elevator damage when in transit and also reduces the overall width of the machine. Available in lengths up to 1.2m. Elevators are also available from 1.2m to 1.6m, these are fixed in the door position and cannot be moved to the front of the machine.

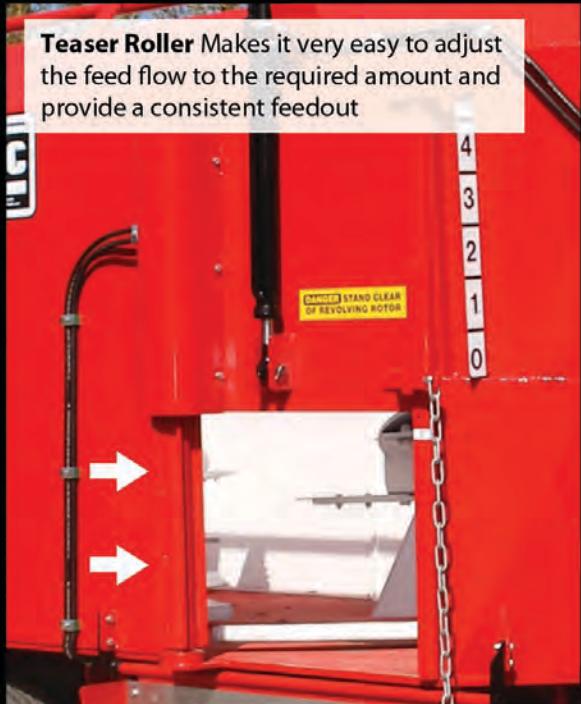


**Hydraulic Counter Knife**



**Hydraulic Chute**

**Teaser Roller** Makes it very easy to adjust the feed flow to the required amount and provide a consistent feedout



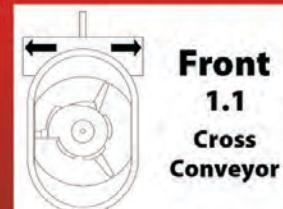
# Optional Extras

# Discharge Options

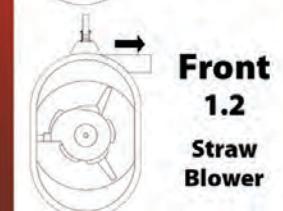


## Single Auger Door Options

## Twin Auger Door Options



**Front**  
**1.1**  
Cross  
Conveyor



**Front**  
**1.2**  
Straw  
Blower



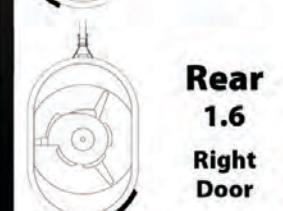
**Left**  
**1.3**  
Side  
Door



**Right**  
**1.4**  
Side  
Door



**Rear**  
**1.5**  
Left  
Door



**Rear**  
**1.6**  
Right  
Door



**Rear**  
**1.7**  
Centre  
Door

For single auger models -  
1 discharge door  
comes as standard

For twin auger models -  
1 discharge doors  
come as standard

**Front**  
**2.1**  
Cross  
Conveyor

**Front**  
**2.2**  
Straw  
Blower

**Left**  
**2.3**  
Front  
Door

**Right**  
**2.4**  
Front  
Door

**Left**  
**2.5**  
Rear  
Door

**Right**  
**2.6**  
Rear  
Door

**Rear**  
**2.7**  
Left  
Door

**Rear**  
**2.8**  
Right  
Door

**Rear**  
**2.9**  
Centre  
Door

# Straw Blower

The Vertical Auger Feeder Straw Blower attachment can be used for the bedding of loose and cubicle sheds. It will blow straw up to 22 metres from the machine. Accurate spreading can be obtained by adjusting the hydraulically operated chute. All shapes and sizes of baled material can be used.

The Blower is quite versatile and can also be used for feeding into high troughs, round feeders or over high walls. The feeder fitted with the blower equipment also has a standard discharge door for floor or low trough feeding. It is fitted with a two-speed gearbox - low speed for feeding and high speed for straw blowing.

The machine requires a tractor with a 1000rpm PTO speed for straw blowing.



## Optional Rear Doors



Single Centre Rear Door  
(ref: discharge options 1.7 or 2.9)



Twin Rear Doors with Straight  
Discharge Chutes  
(ref: discharge options 1.5/1.6 or 2.7/2.8)

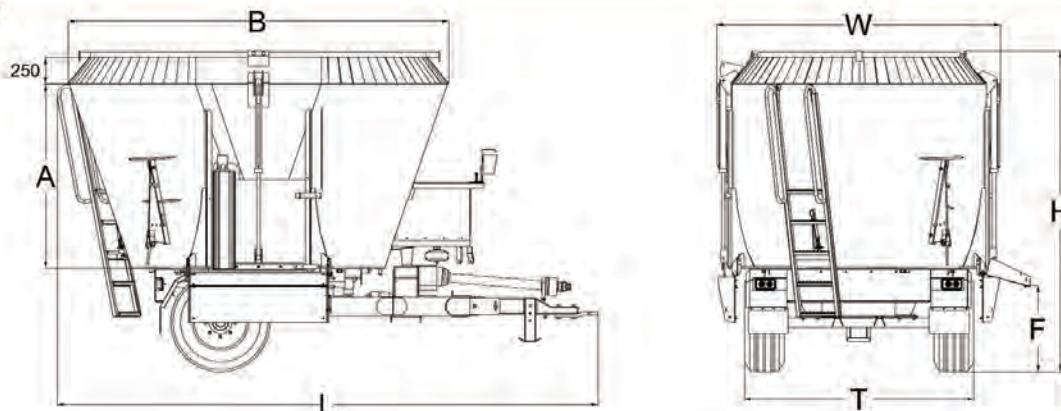


Twin Rear Doors with Side  
Discharge Chutes  
(ref: discharge options 1.5/1.6 or 2.7/2.8)



# Technical Data

## Single Auger



Model	Capacity	Height (H)	Width (W)	Length (L)	Body Height (A)	Body Length (B)	Track Width (T)	Feedout Height (F)	Unladen Weight	Wheel Size
<b>Single Auger</b>										
V7	7	2610 (8'6")	2220 (7'3")	4280	1800	2940	1685	610	3600	30x11.5-R14.5
V10	10	2910 (9'7")	2620 (8'7")	5110	1600	3500	2190	800	4700	355/50-22.5
V12	12	3060 (10')	2620 (8'7")	5160	1750	3600	2190	800	5000	355/50-22.5
V14	14	2910 (9'7")	3020 (9'11")	5550	1600	3900	2540	800	5900	355/50-22.5
V16	16	3110 (10'2")	3020 (9'11")	5600	1800	4000	2540	800	6400	355/50-22.5
<b>Twin Auger</b>										
T14	14	2700 (8'9")	2220 (7'3")	6520	1550	5070	1940	675	6000	235X75-R17.5
T16	16	2975 (9'9")	2220 (7'3")	6570	1800	5210	1940	675	6500	235X75-R17.5
T20	20	2820 (9'3")	2620 (8'7")	7330	1600	5850	2400	675	7260	235X75-R17.5
T24	24	3020 (9'11")	2620 (8'7")	7530	1750	6050	2400	675	7660	235X75-R17.5
T27	27	3400 (11'2")	2860 (9'5")	7640	1980	6130	2400	825	8660	385/55 R19.5

**Note:** Without side door, overall width can be reduced by 220mm per side - total 440mm

On Single Auger models - for 235/75 R17.5 tyres reduce overall height by 125mm or 5"

- for 30x11.5-14.5 tyres reduce overall height by 170mm or 7"

## Twin Auger

