

# KEENAN<sup>®</sup>

an **Alltech** company

Handcrafted in Ireland  
using cutting-edge  
engineering



**Driving global farm  
profits through  
precision nutrition**

## Green on the outside - even greener on the inside

Established in 1978, and a member of the Alltech family of companies since April 2016, KEENAN is a respected leader in sustainable and profitable farming solutions, focused on maximising feed efficiency. Over the course of more than four decades in business, KEENAN has earned a particularly strong reputation for manufacturing quality diet feeders, delivering unparalleled results on farms all over the world.

KEENAN prides itself on continuous investment into new technology for the benefit of its customers globally. The company has evolved throughout the years, combining cutting-edge technological developments with breakthrough nutritional expertise.

A keen advocate for environmental sustainability, KEENAN has developed a range of solutions to enable farmers to overcome agricultural production challenges and improve rumen health and feed efficiency.

These commitments were rubber stamped in 2019 when the Carbon Trust validated the KEENAN green machine. Having investigated the output from the KEENAN diet feeder and reviewed data from the KEENAN controller, the Carbon Trust established that the improved FCE (Feed Conversion Efficiency) with the KEENAN machine can reduce methane emissions on farm.

### About Alltech

Founded in 1980 by Irish entrepreneur and scientist Dr. Pearse Lyons, Alltech improves the health and performance of people, animals and plants through nutrition and scientific innovation. With nearly 100 manufacturing sites globally, Alltech is a leading producer and processor of yeast and organic trace minerals.

The company's guiding Planet of Plenty™ principle seeks to develop solutions that are safe for the Animal, Consumer and the Environment and is actively supported by close to 5,000 team members worldwide.

Headquartered just outside of Lexington, Kentucky, USA, Alltech has a strong presence in all regions of the world.

*For further information, visit [www.alltech.com](http://www.alltech.com)*



*KEENAN Factory, Borris,  
Co. Carlow, Ireland.*



*Alltech Corporate Headquarters,  
Lexington, Kentucky.*

# The MechFiber Difference

KEENAN machines are unique in the proven nutritional benefits they deliver. Each KEENAN is engineered to use a gentle mixing action to produce evenly, thoroughly mixed, light, fluffy feed which is never over or under mixed. We call this optimal mix 'MechFiber'. The KEENAN controller, which is synced with the InTouch feed management platform ensures all feed ingredients are consistently added in the same order and ratios.

Independent trials have consistently shown that MechFiber retains the fibre structure to stimulate rumination, allows greater absorption of energy and maximised feed conversion efficiency.

## Scientific Results - MechFiber Research

Numerous scientific studies\* have corroborated what KEENAN has known for decades - the MechFiber fed rumen is healthier and as a result animals are more productive.

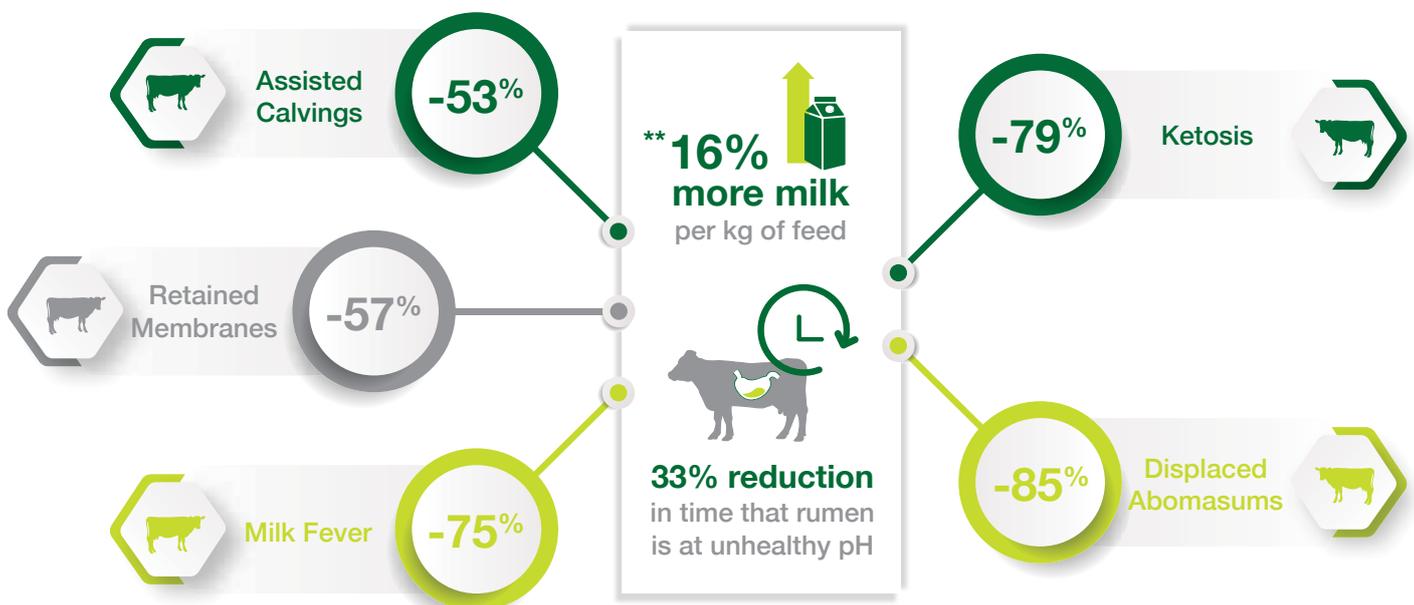
RESEARCH MONITORING 24,450 DRY COWS ACROSS 277 FARMS SHOWED A REDUCTION IN THE FOLLOWING:



**THE MECHFIBER MIX - FORAGE WITH STRUCTURE AS NATURE INTENDED**

Professor Drackley of University of Illinois also found "Substantial gains in animal health" in the form of:

- More consistent intakes
- Less fluctuation in body condition
- Increased lactation persistency
- Less liver fat accumulation

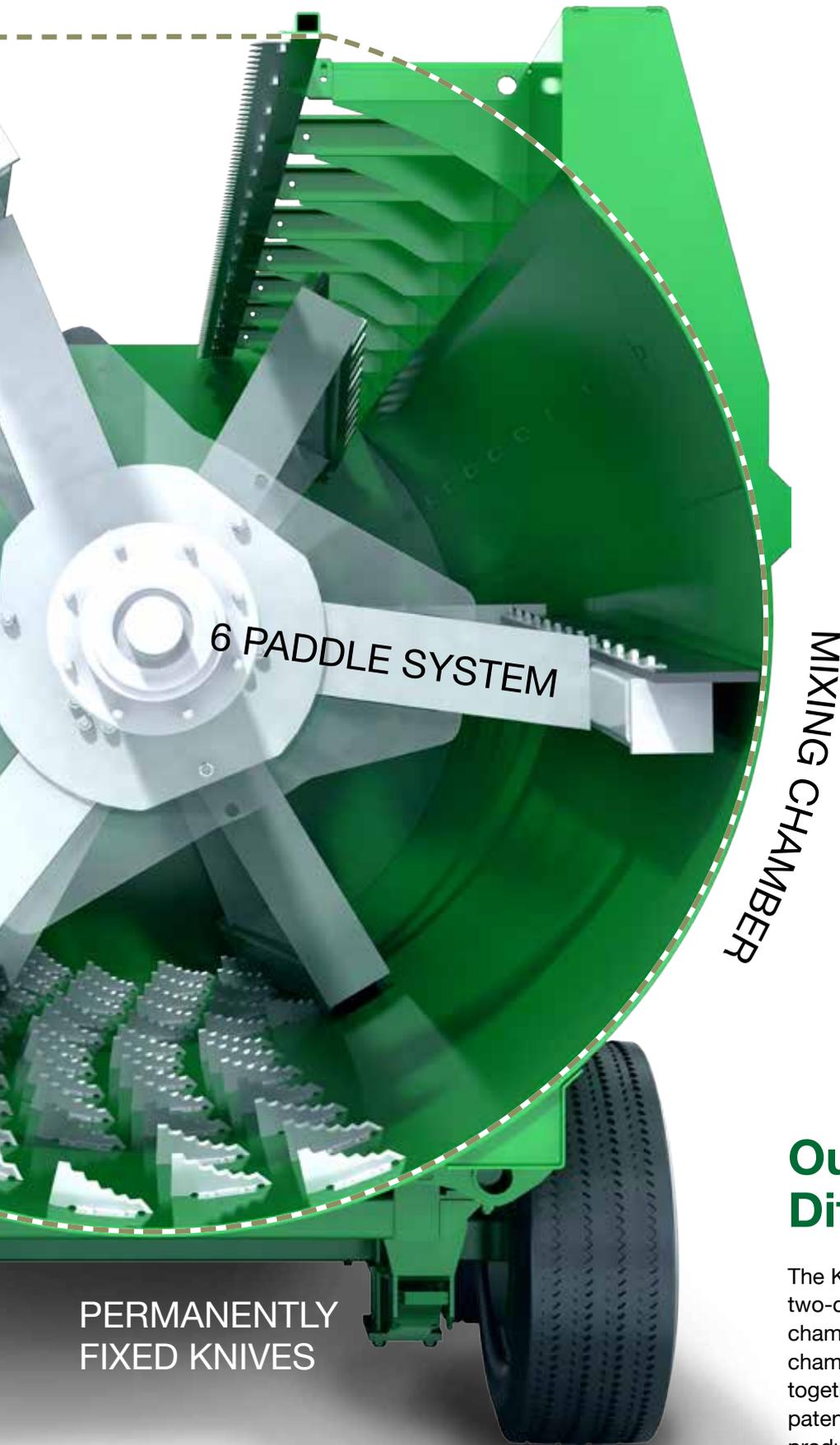


\* University of Illinois 2008, University of Reading 2008 & Colman et al, 2011. Professional Animal Scientist, 27, 505-17  
 \*\* "Subtle changes in rumen conditions had major effects on feed efficiency" Professor Jim Drackley

- Mixing chamber containing 6-paddle reel with fixed mounted knives at the bottom
- The paddles gently lift and tumble the added materials across the blades ensuring feedstuff is cut to an optimal length without destroying the quality of the fibre. This is to create a mix with the correct chop length and structure for optimum rumen health
- The two chambers are separated by an exit door which opens when the feed is mixed and ready to be fed out through the discharge chamber
- The auger is housed in the discharge chamber to evenly dispense feed to the animals. Traditional diet feeders house the auger inside the mixing chamber, which can lead to physical damage to the feed, compromising the mix quality
- InTouch Controller is connected via the internet to our InTouch monitoring software. This records and communicates ingredient weights, diets, rotations, mixing speed and mixing accuracy. Our advisors monitor this information daily to safeguard against problems on-farm

## DISCHARGE CHAMBER





6 PADDLE SYSTEM

MIXING CHAMBER

PERMANENTLY  
FIXED KNIVES

## Our Engineering Difference

The KEENAN diet feeder has a unique two-chamber system - both a mixing chamber and a separate discharge chamber. The two-chamber system, together with the 6-paddle reel and our patented fixed knives system is how we produce MechFiber - the open fluffy mix that is unique to KEENAN.

A QUALITY OF MIX THAT  
BENEFITS BOTH YOU  
AND YOUR ANIMALS.

# KEENAN Controller

The KEENAN controller is synced with the InTouch feed management platform. This allows farmers to easily measure, monitor and manage feed accuracy and efficiency. It also provides farmers with information on herd performance, feed costs, dry matter intake and refusals.

#### KEENAN Controller:

- Gives clear instructions on order and weight of ingredients
- Leads to a maximised ration quality and consistency

#### Instant Revolutions & AutoStop:

- Prevents over or under mixing of feed ingredients
- Ensures a consistent Total Mixed Ration (TMR) in every load
- Delivers a balanced ration with every bite of feed

#### Automated Data Sharing:

- Ability to send ration changes straight from the InTouch feed management platform directly to the farmer
- Simplifies communication between the farmer, employees and trusted advisors
- Reduces time delays/labour in implementing ration changes

#### InTouch Platform – A Real Time Performance Measuring & Support Service That:

- Monitors exact inclusion rates of ration ingredients
- Audits KEENAN feeder performance
- Measures daily feed efficiency and over 20+ key performance indicators



Helping almost 2,000 farmers and animal nutritionists globally.



Feeding almost 300,000 animals.



Detailed graphs and reports on ingredients used, feed costs, herd productivity and feeding accuracy.



Real time wireless transfer of animal diets and mixing revolutions.



Global presence - Call centres in Ireland, France, New Zealand and Australia.



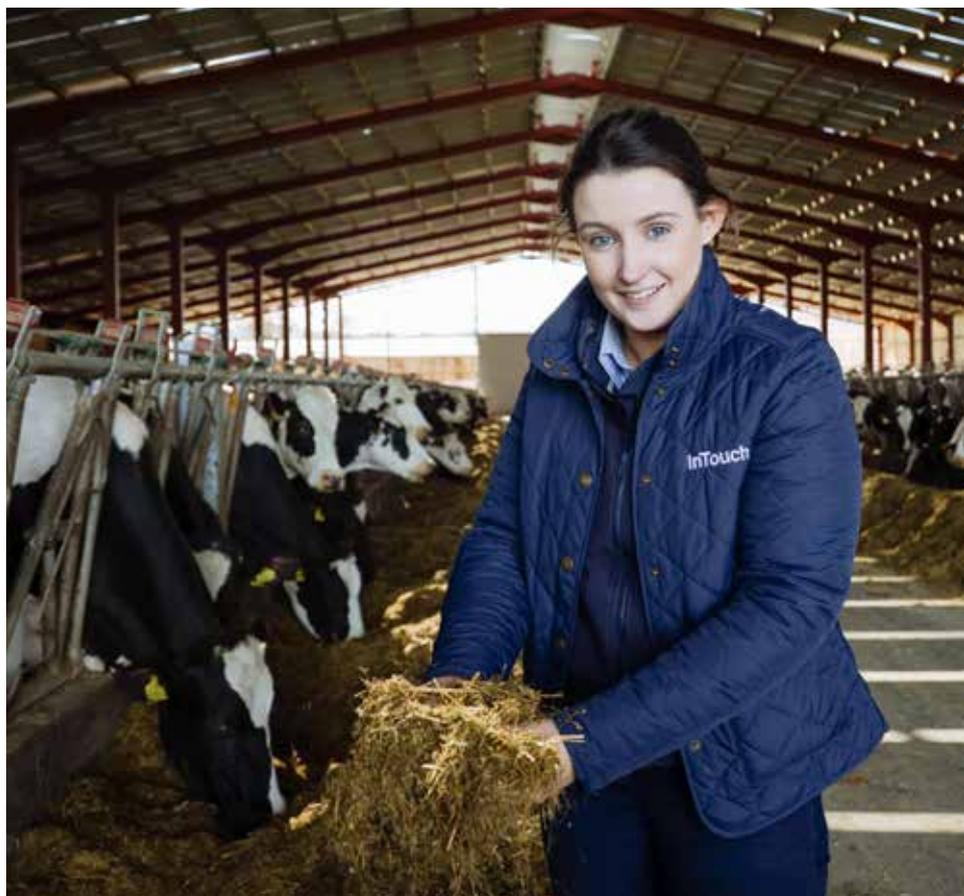
Providing the farmer with control, accuracy and real-time feed advice.



The InTouch App on your mobile device acts as a second screen in the cab when loading

## Benefits of using the KEENAN controller and InTouch feed management:

- Provides accurate feed advice and ration formulation
- Delivers consistency in both feed and mixing
- Improves milk yields and milk solids
- Assists in finishing cattle quicker
- Improves herd health
- Monitors and controls feed costs
- Improves ewe & lamb feedlot ration consistency





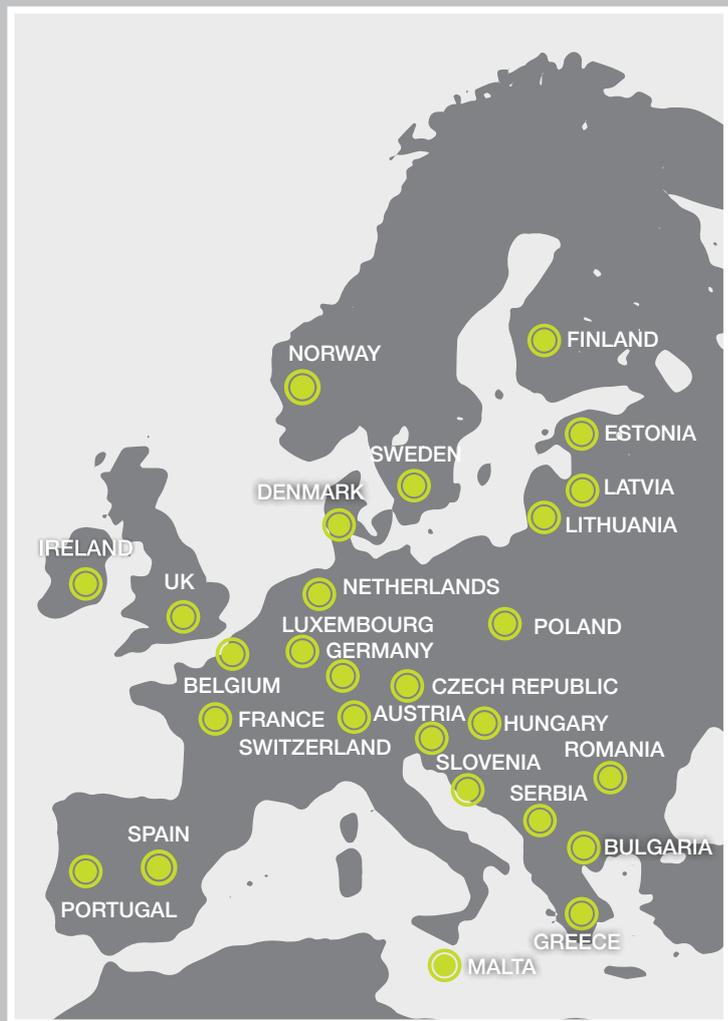
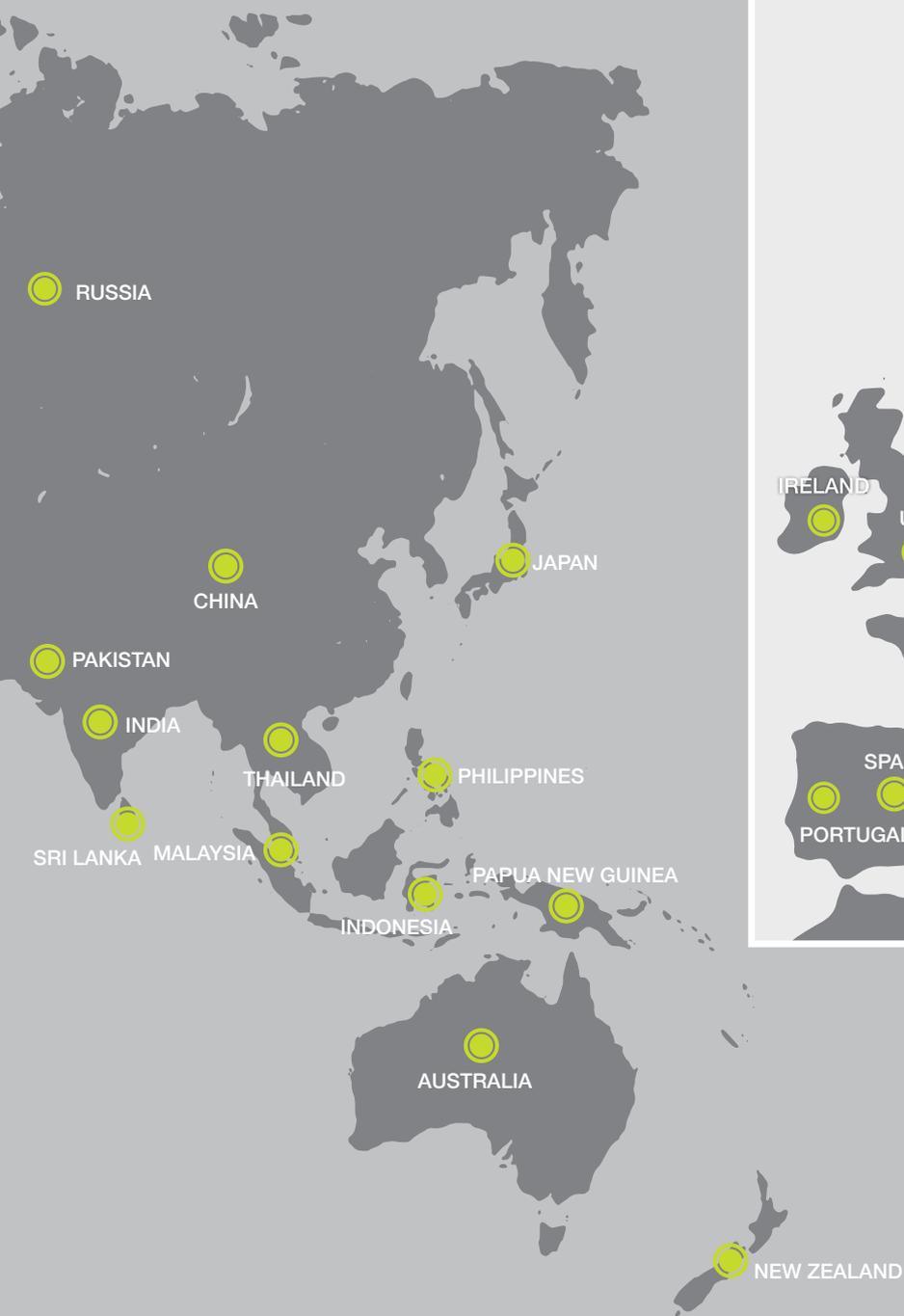
## Global Spread of KEENAN Machines

IRELAND  
FRANCE  
UK  
DENMARK  
NORWAY  
SWEDEN  
GERMANY  
NETHERLANDS

BELGIUM  
SPAIN  
PORTUGAL  
ROMANIA  
BULGARIA  
HUNGARY  
CZECH REPUBLIC  
SWITZERLAND

SLOVENIA  
POLAND  
ESTONIA  
LATVIA  
MOROCCO  
CANADA  
USA  
MEXICO

VENEZUELA  
PERU  
CHILE  
ARGENTINA  
BRAZIL  
CHINA  
INDIA  
JAPAN



MALAYSIA  
 INDONESIA  
 AUSTRALIA  
 NEW ZEALAND  
 SOUTH AFRICA  
 ZIMBABWE  
 BOTSWANA  
 KENYA

TURKEY  
 RUSSIA  
 ICELAND  
 ZAMBIA  
 LITHUANIA  
 MALTA  
 CYPRUS  
 GREECE

FINLAND  
 SRI LANKA  
 PHILIPPINES  
 SAUDI ARABIA  
 UAE  
 OMAN  
 YEMEN  
 COLOMBIA

MAURITIUS  
 SENEGAL  
 SURINAME  
 SUDAN  
 PAKISTAN  
 NAMIBIA  
 THAILAND  
 AUSTRIA

HONDURAS  
 LUXEMBOURG  
 PAPUA NEW GUINEA  
 SERBIA  
 UGANDA

# Australian Standard Machine Features for MechFiber Range



## BALE HANDLER

Bale handler ensures a fast, even and consistent intake of round and square bales of all forage types.



## TRAY MAGNETS

The feed out tray is fitted with industrial strength magnets. These permanent magnets are bolted into the tray and help catch metal debris which may exit in the feed.

The KEENAN MechFiber range of machines has the following features as standard for the Australian market and conditions. Each machine is handcrafted using our cutting edge technology, in our world class manufacturing facility in Borris, Co. Carlow, Ireland. Machines are built to order, allowing for specific customisation of each machine to suit the individual farm needs. Other standard features include **Tandem Sprung Axle**, **Hydraulic Brakes** and a **Hydraulic Jack** on the drawbar of the machine. Machines can be provided either as a trailed unit, a truck mounted unit or as a stationary fixed unit driven by an electric motor. The MechFiber diet feeders come in a range of sizes from 8 cubic meter to 28 cubic meter capacities.



### KEENAN CONTROLLER WITH INTOUCH TECHNOLOGY

Allows farmers to easily measure, monitor and manage feed accuracy/efficiency, herd performance, feed costs, dry matter intake and refusals.



### 50 MM LIQUID ACCESS POINT

A 50 mm camlock fitting allows any liquid supplement to be easily added to the ration.



### WIDE ANGLED PTO

The wide angled PTO gives flexibility with the operation of the machine during loading and feeding out in the paddock.



### AUTOMATIC OILER / OILBATHS

The MF345, MF365, MF380 & MF400 have an oilbath. All other MechFiber machines will have an automatic oiler to improve chain life longevity.

# Optional Extras for MechFiber Range

New machines  
can be  
customised to  
suit your own  
particular farm  
needs.



## REAR STEERING AXLE

Rear steering axles suit farm situations where the tandem axle machine has to work on a feedpad with a small turning circle. The diet feeder can also be built with a single axle configuration.



## BLADE/ TOP KNIVES CONFIGURATION UPGRADE

Extra blades can be fitted to a machine where extra fine forage processing is required, particularly for small animals. All the knives can be upgraded to heavy duty (including the top knives) for situations where a lot of hay and tougher forages are being processed.



## ELEVATORS

Elevators can be customised to your machine varying in length from 0.6m to 4.5m. This gives access to fill in over high feed barriers or into paddock feed bins, for cattle or sheep enterprises.



## THREE FUNCTION ELECTRO-HYDRAULIC SPOOL VALVE BLOCK

Allows for operation of 3 hydraulic functions via in-cab mounted control panel. Control panel requires 12V connection.  
Note: Only one function may be operated at any time.



## REMOTE DISPLAY

Option for second screen display showing weight, ingredients etc. mounted in tractor cab or elsewhere on machine.



## CENTRALISED GREASING

Front-mounted bank of greasing points in one location. Access all grease points for driveline in one place for ease of maintenance.

# Machine Specification

		MACHINE	HEIGHT MM	WIDTH MM
Page 16		MechFiber400	3,565	3,009
Page 17		MechFiber380	3,407	2,819
Page 18		MechFiber365	3,163	2,769
Page 19		MechFiber345	3,119	2,769
Page 20		MechFiber320	2,884	2,569
		MechFiber300	2,853	2,493
		MechFiber270	2,749	2,541

\*Payload = Maximum design payload. Number of animals/load is dependent on ration composition & dry matter of materials being loaded.

<sup>1</sup>Feeding 1-2 loads per day.

	<b>LENGTH MM</b>	<b>PAYLOAD KG*</b>	<b>MIX CAPACITY M<sup>3</sup></b>	<b>HORSEPOWER</b>	<b>DAIRY HERD SIZE PMR<sup>1</sup></b>	<b>BEEF FINISHERS /LOAD<sup>1</sup></b>
	7,600	10,000	28	120	600+	650+
	7,600	9,000	24	115	500 - 600	500 - 600
	7,250	8,000	20	105	400 - 500	350 - 500
	6,250	6,000	16	90	200 - 300	150 - 250
	6,250	3,800	14	80	Up to 200	Up to 150
	6,250	3,800	12	80	TBA	TBA
	4,850	3,000	10	70	TBA	TBA

# KEENAN<sup>®</sup> MechFiber400



The largest paddle diet feeder in the KEENAN range, the KEENAN MechFiber400 sets new standards for mixing. Its heavy duty four chain drive system allows for high work rates, durability and trouble free operation. The heavy duty chassis with spring mounted drawbar is designed to improve weight transference and stability when driving.

# KEENAN<sup>®</sup> MechFiber380



The KEENAN MechFiber380 is designed for the farmer who wants to feed large numbers of animals in a short period of time. Aesthetically closer to the KEENAN MechFiber400, it retains the manoeuvrability of the smaller KEENAN MechFiber365. The two front doors ensure easy access to the sealed oil-bath unit for maintenance.

# KEENAN<sup>®</sup> MechFiber365



The KEENAN MechFiber365 is the first machine of the medium sized range to be designed with a heavy duty sealed oil-bath drive system. The two chain driveline is self-lubricating, reducing the loading on the chains and sprockets and increasing their working life. A central greasing manifold allows all front bearings to be greased from one location.

# KEENAN<sup>®</sup> MechFiber345



The KEENAN MechFiber345 has a similar footprint to the KEENAN MechFiber320, offering a bigger mixing capacity (up to 35% greater) and featuring an enlarged mixing chamber. It features an oil bath two chain driveline with automatic chain lubrication system, for easy maintenance reducing the loading on the chains and sprockets and increasing their working life. A central greasing manifold allows all front bearings to be greased from one location.

# KEENAN<sup>®</sup> MechFiber320



The KEENAN MechFiber320 is a highly versatile machine and adaptable to most feeding operations. Like all KEENAN diet feeders, it will produce as high a quality MechFiber ration with 500kgs as at full capacity. The machine can discharge over 1,181mm (46.5") without additional modifications.

# KEENAN<sup>®</sup> ProMix

The KEENAN ProMix is an industrial machine developed for high throughput industrial applications. It incorporates patented mixing, management and control technologies. Preserving the original KEENAN philosophy of simplicity in design and ease of use and maintenance, the KEENAN ProMix has the flexibility to be built for multiple applications.



# KEENAN® MechFiber Truck Mounted

Truck mounted diet feeders are increasingly popular in the market, where the operator is looking to feed-out large amounts at a faster pace. KEENAN MechFiber machines can be supplied ready for truck mounting due to their high strength, durability and low loading height. The feeder body is supplied on a temporary chassis ready for mounting directly onto a truck.

The most common pitfall in truck mounts is the under sizing of the truck and of the truck drive system. Buying exactly the right truck for the job will save a lot of money in the long run and ensure the whole system lives up to expectations. Your KEENAN representative will have a detailed knowledge to help you select the correct truck and their advice will be essential in buying the most suitable one for your application. Truck mounts are quite straightforward once the basic guidelines are followed.



# KEENAN<sup>®</sup> OrbitalSpreader

The KEENAN OrbitalSpreader is a heavy duty versatile muck spreader. It is capable of high work rates, with trouble-free spreading of a wide range of farm and commercial wastes. It delivers a uniform spread pattern up to 20 meters wide. Material is pushed to the front for discharge ensuring better weight transfer minimising soil compaction.

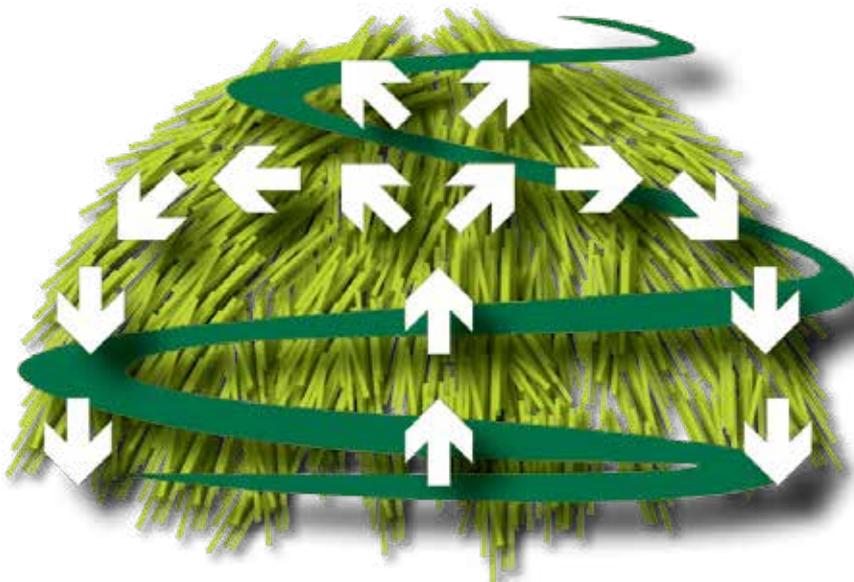
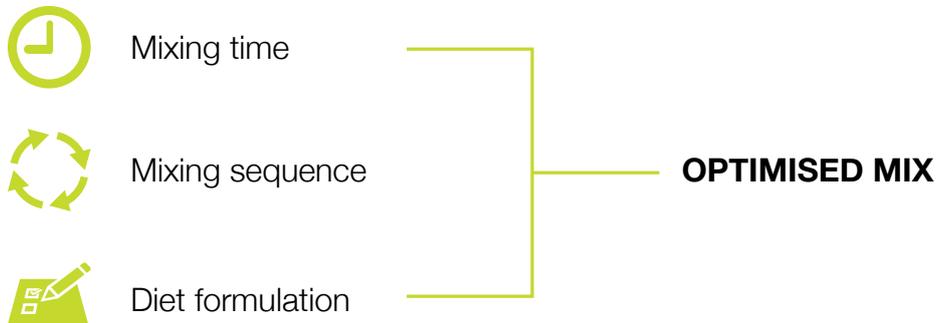


# KEENAN® Vertical Models

KEENAN have always been proponents of the unique quality of the MechFiber mix produced by our paddle diet feeders. However, in Italian manufacturer Storti we have found the best vertical machine in the market and have successfully enhanced the output from this machine with the addition of our InTouch technology. These machines are ideally suited for the farmer who is looking for extra capacity – but within a small footprint.

These vertical auger machines do not produce our world renowned MechFiber mix; however, the nutritional output they can now produce has been greatly optimised thanks to implementing our unique algorithms for the exact mixing order, speed and rotations.

## KEENAN InTouch Algorithm + Nutrition Advice



The new vertical models uphold the KEENAN values of machine reliability as well as low power and maintenance requirements. Engineered to optimise the use of space, the KEENAN VA2 and KEENAN VA3 machines allow materials to be rapidly and efficiently mixed into the overall total mixed ration.

### SPEED

Materials are rapidly and efficiently mixed into the overall TMR (total mixed ration).

### CAPACITY

Efficient use of space to maximise capacity.

### FOOTPRINT AND HANDLING

Extremely manoeuvrable.

### HEAVY DUTY CHASSIS

Mounted on custom-built heavy duty chassis to ensure durability under the toughest conditions.

### SPRINT PADDLES

Sprint paddles help to speed up feed-out. One is fitted to each auger ensuring a constant rate of discharge of material.

### HEAVY DUTY AUGER AND BLADES

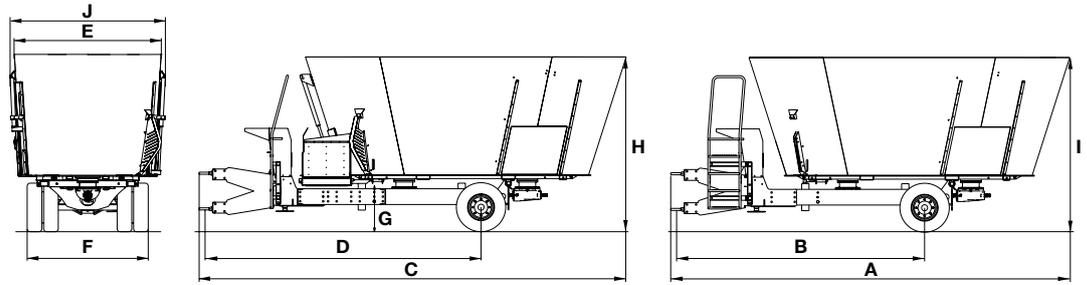
Fitted with heavy duty augers as standard. Triangular blades fitted with tungsten coating to increase longevity.

### TWO-SPEED GEARBOX

The two-speed gearbox means that when using low speed the power requirement from the tractor to start up a load is greatly reduced; while high speed can be used to ensure rapid, more even emptying.

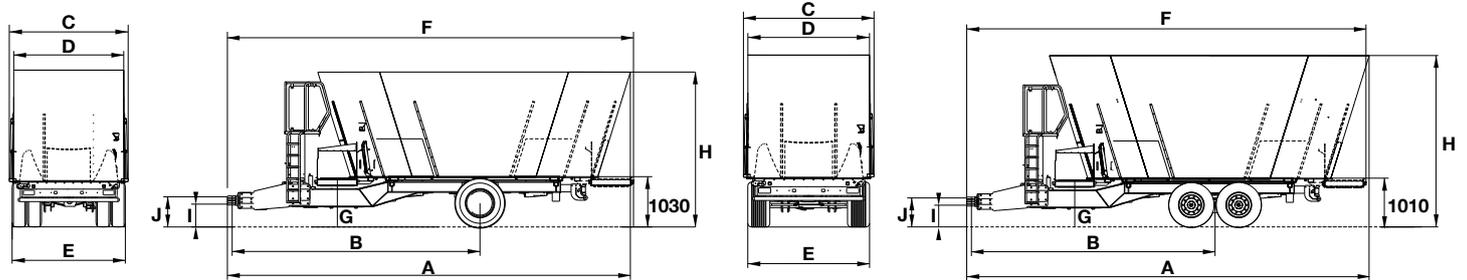


## KEENAN VA2-18, KEENAN VA2-21



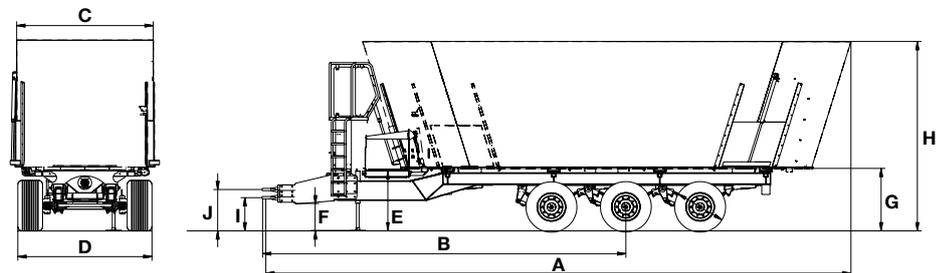
		A	B	C	D	E	F	G	H	I	J	Required Power**
	m <sup>3</sup>	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kW-HP
KEENAN VA2-18	18	6,960	4,480	7,430	4,850	2,440	2,025	800	2,980	2,900	2,570	81
KEENAN VA2-21	21	7,120	4,480	7,760	5,010	2,450	2,180	875	3,160	3,080	2,590	90

## KEENAN VA2-24L, KEENAN VA2-27, KEENAN VA2-30, KEENAN VA2-33



		A	B	C	D	E	F	G	H	I	J	Required Power*
	m <sup>3</sup>	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kW-HP
KEENAN VA2-24L	24	8,360	5,330	2,700	2,500	2,510	8,360	820	2,940	465	610	120
KEENAN VA2-27	27	8,430	5,330	2,700	2,500	2,510	8,430	820	3,150	465	610	130
KEENAN VA2-30	30	8,490	5,330	2,700	2,500	2,510	8,490	810	3,330	450	600	140
KEENAN VA2-33	33	8,560	5,330	2,700	2,500	2,510	8,560	810	3,560	450	600	150

## KEENAN VA3-36, KEENAN VA3-40, KEENAN VA3-44



		A	B	C	D	E	F	G	H	I	J	Required Power*
	m <sup>3</sup>	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kW-HP
KEENAN VA3-36	36	10,580	6,650	2,500	2,510	1,110	500	1,150	3,100	610	760	210
KEENAN VA3-40	40	10,650	6,650	2,500	2,510	1,110	500	1,150	3,310	610	760	210
KEENAN VA3-44	44	10,700	6,650	2,500	2,510	1,110	500	1,150	3,490	610	760	210

\*Power requirement dependent on loaded products.

\*\*Approximate weight. Actual weight subject to options fitted to the machine.

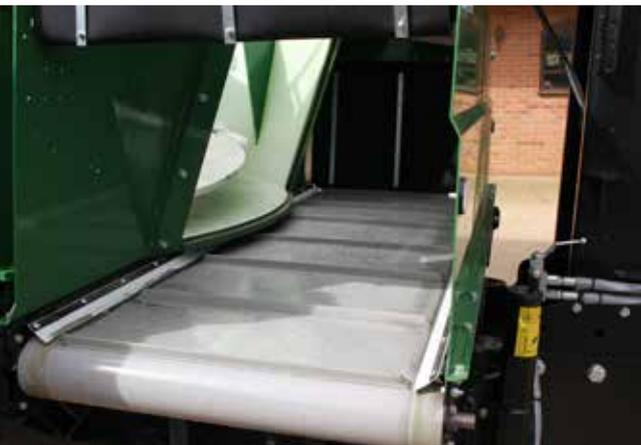
# KEENAN<sup>®</sup>

## VA2-18



The KEENAN VA2-18 is the smallest machine in the KEENAN VA range. With a lower footprint, the KEENAN VA2-18 affords greater mobility. The Mixing chamber, augers and components of the KEENAN VA2-18 are manufactured using the same quality, strength and thickness of steel as the larger machines in the KEENAN VA range.

# KEENAN<sup>®</sup> VA2-24L



The KEENAN VA2-24L is a longer option in the KEENAN VA range of machines. It is mounted on a heavy duty chassis and features a robust gearbox.

Feed delivery is at the front onto a cross conveyor allowing feed out to the left or right.

# KEENAN<sup>®</sup>

## VA2-30



The KEENAN VA2-30 is a heavy-duty machine with the capacity to feed large herds quickly. Multiple feed-out options to suit a variety of feeding situations are available with this machine. This applies to the full range of the KEENAN VA machines.

# KEENAN Accredited Service and Genuine Spare Parts



## **Why KEENAN Accredited Service?**

No one knows more about your machines than our skilled KEENAN service engineers. We are committed to ensuring that you are 100% satisfied with your KEENAN machine at the point of purchase and any day after – our established KEENAN network is there to help.

## **Why KEENAN Genuine Spare Parts?**

Only KEENAN genuine spare parts are used by our KEENAN engineers. These are specifically designed for KEENAN – tried and tested, having stood the test of time in all of our KEENAN machines worldwide. Ensuring maximum reliability and delivery of the proven nutritional benefits that are associated with a KEENAN.

## **We are here to help**

Our sales, aftersales and parts centre provide you with the very best products, service, advice and customer care. Get in touch to ensure your machine will give you a long, trouble-free life and retains its re-sale value. We provide a 24-hour emergency machine back-up service 365 days per year.

**To find your local service agent,  
please call 1800 KEENAN**



**KEENAN-trained  
Service Engineers**



**KEENAN Genuine  
Spare Parts**



**Service support  
when you need it most**

**NEVER MISS A FEED!**



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**Phone: 1800 KEENAN (533 626)**

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