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A sustainable environment... everyone has a role

Nobody ever said farming was easy, never without challenges and with far wider and ever-increasing importance to reduce the human impact on the environment. Tama's business, of manufacturing products for customers of seasonal crop baling and preservation, brings it into close contact with such challenges.

Our products already use less plastic per tonne of crop baled than those from any other manufacturer. A decade of development within Tama's Netwrap division brought about a more reliable and consistent net that was, importantly, lighter for the same strength, meaning less material to make the product. Similarly, a new higher-tenacity twine brought about a more compact product of less raw material, giving longer length spools for equivalent twine strength and spool weight. Customers using these products have already contributed massively in the reduction of 'farm plastic', moving the farming industry a long way forwards, perhaps without even realising it.

The challenge in every market is to find ways to dispose of waste plastic whilst at the same time lowering the amount of 'virgin' raw material used in manufacturing. This addresses governments' clearly stated agenda for a levy on 'single-use' plastics, a reduction in their use as well as greater collection and re-cycling of these plastics. Price levies are bound to increase, over time, as the look for alternatives becomes more pressing.

There is now a strong focus on the reduction of plastic use on the farm and a desire for reducing its use and cleaning up the market. By accepting the challenge of reducing the impact of on-farm plastics, dealers and end users must address the 'elephant in the room' and accept and embrace the use of re-cycled material in the goods.

All crop-baling products are re-cycleable. Some are easier to process than others, but all are certainly possible of cleaning and re-cycling back into usable raw material resins. In fact, twine and stretchfilm made from re-generated raw-material is already in use in some markets in Europe. There are two regimes of material re-cycling; 'open loop' – where material is collected and re-cycled for use in any other manufactured plastic product, or 'closed-loop' – where all farm plastics are collected and re-cycled back into their original use.

The aim, to achieve a fully 'closed-loop' situation, may seem a monumental task, however, technology is heading towards this being an achievable goal in the coming years. Currently, the quantity of used material collected is woefully short of the total used in farming each year. The difficulty facing all, is to ensure enough material to be able to 'close the loop', hence the need for greater efficiency and 'buy-in' to national collection schemes and material re-cycling.

"As the leading producer, we are keen to take a lead in this and already are a leading partner in many waste-material collections schemes, either regulatory or voluntary" says Mr Yair Arzi, Managing Director and CEO of Tama Group. "We are committed to reducing plastic waste, while recognising the importance of using and disposing of plastic properly, in order to ensure sustainable development and help our customers to become more effective in reducing their farm 'carbon footprint' and 'environmental impact'"



Netwrap example: - when making 5,000 bales 1.70m diameter round bales with 3 wraps, using TamaNet+ has a material saving of over 200kg compared with heavier, standard net types. Furthermore, the increased strength of the Tama Bale+ technology can reduce the number of wraps per bale in many cases.



Twine example: - an average Big Baler user producing 10,000 bales (1.2m x 0.9m x 2.4m) has a material saving of approximately 570kg, when using TamaTwine+. This means less plastic used for each bale comparing to equivalent twine (same crop, same size = TamaTwine up 25% less plastic).

CPA - ROYAL story TamaNet+ ROYAL

The road to any new product is, by its very nature, never straightforward or smooth. The long journey of development may bring disappointment, surprise and occasionally an unexpected and encouraging discovery.

Changing environment / Environmental factors

Tama Group R & D teams are constantly pushing boundaries in product development, often in areas that are far from obvious to the end user of the product. For example, the 2008/2009 Australian baling season brought exceptional conditions of longer un-interrupted sunshine and record temperatures that were more than many netwraps could take, creating failures for all netwrap producers. Tama's unique response was to set up two, huge-scale testing sites in Australia. At these, hundreds of bales were made with varying recipes of raw material resins and construction, to develop answers to this and help future proof Tama products, often as a consequence of other research. This test is still in operation, and now repeated in three other locations worldwide.

Evolving demands from the end user

Tamanet Royal is new Netwrap development from such advanced R & D actions, an answer to the needs of a demanding sector of the baling industry. Large scale stock farmers, dairy or beef, using bigger diameter round bales is a niche but a very important niche in the baling business. A growing range of much more powerful round balers have 'changed the conversation' in terms of round baled straw to "how many Kgs per cubic metre". Large round bales can now equal the weight of some traditional large-square bales and such extreme-high density bales have become more important, demanding ever greater density for the bale volume available.

Future proof

The future needs of farming must be set up to cater for hotter and drier summers, tougher and baling conditions and more difficulty harvesting shorter or un-stable crops. Such conditions usually mean application of more wraps of net to withhold the explosive nature of large diameter straw bales. However, Tama's creative and resourceful R & D mission has developed a 'future proof' Netwrap which can answer the needs of this niche part of the industry.

Through on-going and evolving development, the best was still able to be made better. TamaNet Royal is an answer to the niche of baling operation for the professional, large-scale round bale straw producer, with the ability to make a real impact on a business's bottom line. By using Royal Netwrap instead of normal netwrap types, extreme density, large diameter bales can now be made with fewer wraps than before.

As an example, if we consider an operator making 5,000, extreme-density 1.8m diameter bales, changing from TamaNet+ netwrap, with 4 wraps, to Royal using 2.5 wraps, brings immediate and obvious reductions of more than 6 hours to make 5,000 bales compared with traditional net. Such a change also brings a reduction in overall wraps on all the bales and an obvious, associated reduction in plastic use (down by over 500kg) and fuel consumption (down by more than 100 litres) in the making of 5,000 bales.

		Tamanet Royal 2.5 Wraps	Tamanet 4 Wraps	Tamanet+ 4.5 Wraps
Baling time	5000 Bales	10.2h	16.4h	18.48h
Material saving	5,000 Bales	870.4kg	1392.7kg	1566.7kg
Fuel saving*	5000 Bales	187.5L	300.0L	337.5L
Carbon footprint	5000 Bales	487.5 kg / co ²	780.0 kg / co ²	877.5 kg / co ²



Save Time



Save Money



Save the Environment



*based on average consumption of 18Ltr/hour

Novatex' net wraps improve their English

Novatex Italia, a leading and innovative net wrap company, will increase its commitment to the UK market through "Agri Novatex". This new branding will provide customers with a range of netwrap products to suit their individual needs, and provide the best "in the field" support to ensure farmers and contractors can maximise their baling.

Novatex Italia is one of the main manufacturers in the crop baling sector, the only company in the world that develops its own production technology 'in-house'. Unlike all other manufacturers, the knitting looms used are designed and built by Novatex themselves, to give them complete control over the manufacturing and quality control process.

Since 1977 Novatex Italia has been a driving force of innovation in the net wrap market for bale nets. The company has been well-known for manufacturing full-covering and rigorously tested netwraps, which have proven to be extremely reliable and efficient on all round balers throughout the market worldwide.

Despite a hugely challenging 2020, Novatex continued to push the boundaries by creating Agri Novatex UK, a brand to be completely focussed on the British market. Other Agri Novatex companies have been founded in Canada, Australia, South Africa, Poland and other countries, to ensure that each country has products specific to their climate, crops and baling conditions.

Agri Novatex UK will be distributing top quality netwraps. Most of these will be already known to the British farmers and contractors, thanks to the unique 2-knots manufacturing process that Novatex has developed. The range of products also offer full-coverage, due to its flexible mesh, which offers long lasting protection even after repeated handling. Most people will recognize the historical Novatex products such Winner, Westfalia, Bluebell and Easynet. For the UK market a new bale net, Youniverse, is also being launched. Youniverse represents the sum of all the best features of a premium netwrap to help retain, hold and protect forage until it's needed. Snag-free and easy to remove when ready to feed out the bale, it's the perfect way to wrap your bales!

Thanks to years of long farming and industrial experience, together with a close relationship with agricultural companies, all the technologies used by Novatex have been developed to meet specific baling needs. Meaning that Agri Novatex UK now has a netwrap to suit whatever challenges the farmer and contractor might face.

With their unique manufacturing methods and equipment, Novatex have for a long time brought a variation on

the 'traditional' netwrap style. Each netwrap type has a manufacturing method and specific descriptor in the name, as detailed below:

The traditional Novatex MS Tech

The Novatex MS - Narrow Mesh is softer than the standard netwraps available on the market. Thanks to the special design of the Novatex MS mesh, the edge-to-edge effect is enhanced and significantly improves the coverage of the bale. This kind of net provides bales with smooth and homogeneous surfaces, which is the best solution for bales that need to be covered by silage film.

ME Tech: stronger but lighter bale net

Through this technology Novatex has created a performing solution made of wider spaced chains with reinforced and thicker threads. Through the special knitting of the mesh the specific strength of this net is strongly increased, despite the reduction in the number of chains and, as a result, in the total amount of plastic. The product therefore not only provides great coverage and protection, but also has less of an impact on the environment.

Another benefit provided by Novatex ME net wraps is an optimal cling on the crops, and thanks to the wider angle of the weft the ME net wraps hook up fast and easily. This means ME spreads better and guarantees improved tension. ME is also much easier to remove from the bale.

The list goes on!

ME+: the improved medium mesh

A further technological evolution process Novatex has developed goes under the name ME+ Tech®, which allows for a further reduction of plastic in the manufacturing process. It also allows better efficiency with more metres per roll, keeping its features unchanged in terms of resistance (and of course maintaining full coverage).

Agri Novatex has launched in January 2021. More details can be found at www.agri-novatex.co.uk

Competition time!

Ensure bale quality with a crop preservative applicator and moisture sensor

Tama have teamed up with the Profitable Baling Company to give you a chance to win a preservative applicator system that includes a moisture sensor option, to help with your baling in the coming seasons!

We have two systems available to win, one for a Square Baler and one for a Round Baler.

The main benefits of this amazing system are below:

Applicator:

- Supplied with the optional baler specific tank and nozzle assemblies
- Tank capacity for round baler
- 100-220 litres depending on baler type
- Tank capacity for square baler
- 400-435 litres depending on baler type
- Front linkage tanks are optional equipment
- Single gear pump with up to 12 litre per minute capacity
- Designed for acids and water based inoculants
- Designed to keep up with the balers capacity
- PFC Agri Solutions control terminal
- Set time and bale weight
- Setting litres per minute is also possible
- Set litres per tonne to be applied
- Links to tractors 7 pin ISO plug to pause the pump when the tractor is stationary



To be in with a chance of winning this amazing prize, simply go to www.tama-uk.co.uk and complete your competition entry.

The winner will be drawn in June 2021 and will be contacted shortly after to arrange delivery.

Good luck!

Tama
FARM GROWN SOLUTIONS



Crop Professionals' Association®

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