



Crop Professionals' Association®

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Re: generated twine

At last it's happened! A revolution in the world of farm plastics, new twine made from used, re-generated old twine!



The plan to reduce farm plastic has been a 'hot topic' for a decade or more. The word plastic has become 'poisonous' to some and its use in farming increasingly frowned upon. But it is not that plastics on farm are bad, it's their use only a single time before being re-cycled into 'end of life' plastic products, that mean more virgin plastic is required for future use.

We have all become used to separating our used crop baling and wrapping materials (netwrap, baler twine, stretch film and silage sheets etc.) making them available for collection and, ultimately, re-cycled for use somewhere else. This is known in the industry as 'open-loop', meaning they are re-used to make something else but not to make twine.

Re-generating or recycling used plastics is nothing new. Typically, used farm-plastics including twine, netwrap or stretchfilm are re-purposed into 'final state' products such as fence posts or cattle-slat flooring and these cannot be further re-processed. This brings no reduction in the need for 'new' plastic for farm consumables.

Some producers claim their products contain recycled material, though this is nothing more than 'in-house' waste created during production, like off-cuts of pastry when home-baking being re-incorporated back into the dough. This does nothing to reduce the use of 'on-farm' plastics.

In a unique and industry leading move, Tama Group have formed a partnership with Netherlands based company Healix, in which used twine and netwrap are re-generated back into high-grade PP and PE polymers that are then re-used in the manufacture of new Twine or Netwrap. Uniquely, taking old and used twine and re-generating it directly back into new product! Unlike the existing 'open-loop' situation of re-cycling old twine into an 'end-of life' plastic, the ability of using the material of the old, used product to make new product is called 'closed-loop'. This ground-breaking development is unique to Tama through their joint-development with Healix's patented technology which can transform what was once used baler twine, back into new PP resin of high quality suitable for use in

Scan for Tama website



This huge step forward significantly reduces farm-plastic 'waste' by re-generating old, into new, reducing the need for so much 'new plastic'. Naturally, re-generating new polymer from previously used twine has some implication on the visual appearance. This new segment of the market also brings a new and distinctive colour for the twine, to clearly identify it and show it as the 'genuine' re-generated

twine, reducing 'on-farm' plastic and helping to make farming better. This also makes any discarded twines much easier to see. This is nothing more than a colour change from the existing white, rust or yellow of LSB Long, Medium and Hay twine. The Cycle twine range maintains the same, renowned strength and high-performance knotting capability of Tama twine.

the manufacture of new twine, thus reducing the requirement for 'virgin' raw material resins.

As with any new development from Tama, the new twine has had a long birth, with extensive field trials in almost all major baling regions worldwide that proved beyond doubt its suitability for all baling conditions. Most importantly, the critical field work confirmed the laboratory and design expectations in that the twine matches the high strength and knotting performance of Tama's existing twine. This means Cycle twine can become part of your normal seasonal twine requirement, without any changes to operation and, remember, every spool used is a real and measurable reduction in the use of 'on-farm' plastics, as it



is re-using what was already made for 'on-farm' use. Tama Group continue to challenge old traditions, instead offering true solutions for end users. What could be more important at this time, than an ethical and truly sustainable option for on-farm plastic.

Winner Nova

scores points and takes the stage

Novatex is pleased to share with all farmers and contractors an important achievement, by upgrading Winner to "Winner Nova"!

The Winner identity is still living in Winner Nova, ensuring that farmers all over the world will be provided with a netwrap granting supreme quality and enhanced results in the field.

Let's see how Winner has passed the baton to Winner Nova, achieving more goals in this era of technological innovation and sustainability, maintaining high efficiency and performance as well as focussing on the environmental impact.

As most farmers already know, Winner has been a revolutionary net wrap which made history in being the first three-colour striped net wrap in the world. Strong identity and features were appreciated worldwide, as being made in Italy ensured excellent quality and top performances.

There can be no doubt: generations of farmers have had

the opportunity to use and appreciate this striking net wrap.

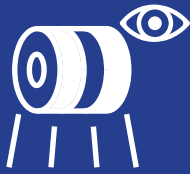
And now the very challenging question: how could it be possible to enhance this level of achievement?

Admittedly it is hard to improve perfection, but Novatex did it! Through innovative technology and high care for every single detail, Novatex has scored this ultimate goal and we are sure people will agree that the extraordinary success Winner Nova is enjoying in each continent proves that baling with Winner Nova is definitely worthwhile.

Thanks to its latest innovative technology, Novatex has launched a new family of net wraps with remarkable features:

- a) reduced environmental impact
- b) less plastic
- c) greater lightness still providing cutting edge performances in terms of ultimate strength and specific strength.

HIGHER VISIBILITY



LONGER ROLLS



HOOKS FASTER ON FORAGE



Then we come to another innovative feature. A new geometrical design of the mesh, with more spaced and reinforced chains, with these amazing advantages.

- Thanks to the wider angle of the thread, Winner Nova hooks fast and easily on the forage, assuring higher tension and compression of the external part of the bale. This last point enhances the capability of Winner Nova to protect forage from sudden rains, something we know all about in the UK!
- Winner Nova has been very impressive to farmers during the cutting phase, since the round bale cutters work better on thicker chains.
- The innovative mesh is technologically designed to be snag-free and easily removable from the bale when the operator is preparing the TMR, thus ensuring time-saving and less forage hooked to the net.
- Lighter net wraps allow operators to obtain longer rolls. This means that farmers in the field need to move fewer rolls to cover the same surface.
- Thanks to its 3850 metre-long rolls, Winner Nova actually enables longer working sessions, reducing the machine down-time normally required to change the rolls.
- Winner Nova presents wide three-colour stripes for enhanced visibility both on dark forage such as pasture, and lighter forage such as hay and straw.



“Good bale making” is a multi-phase process made up of various elements. That’s why it is so crucial for the operators to evaluate each step of the process, choose the best timing, resources and products to obtain the best results.

Winner Nova will certainly do its part and help farmers in doing their job easily, without wasting time and preserving the value of perfectly wrapped bales.

Choose the best net wrap to improve your business, upgrade your work tools to innovate your baling process and enjoy successful rewards with Novatex Winner Nova.

Visit our website:

www.agri-novatex.co.uk





George Saunders

in his own words

At the start of 2023 George Saunders and Tama joined forces to film his trip to see first-hand a unique process, that is enabling Tama to make crop baling products containing recycled materials. George has many followers online and you may have seen him at the Tama stand at the Lamma show this year, so we sat down with him and asked a few questions so you could get to know him a bit better.

What is your history in farming?

My initial jobs in agriculture revolved around dairying. After doing two years at Moulton agricultural college, my middle year work placement was working on a local dairy farm which I enjoyed so much that I didn't go back to college! Instead, I worked for a further two years on the farm until the herd was sold. I then moved onto a larger three hundred cow dairy herd and was there for a further three years. At the end of all that I was looking for a change and went to work for an agricultural and utilities contractor. This is where I first operated various types of baler, including conventional, round and big bale and I encountered Tama products for the first time as well. After about 11 years I then moved to another contractor that operated the latest equipment and used precision farming techniques, again I was using Tama products because of the performance and back-up that Tama offer. Most recently I have moved onto my wife's family mixed farm, comprising of a hundred and twenty cow dairy herd with approximately 120 hectares of arable ground. We operate a round baler that bales all of the cows' food and bedding, and we of course use Tama because it performs reliably time after time, helping to produce quality tight uniform bales.

How did you end up having a Youtube channel?

I have always had an interest in photography which evolved into taking videos about twenty years ago. With my interest in farming I started to film tractors and machines working and one day about ten years ago I thought I would upload a video to Youtube, as I thought it would be of interest to some people. Indeed it was and I got a few views, so I continued uploading and the channel has evolved from then on. Now it has over 62 million views, 110,000 subscribers and almost 1,000 videos! It has opened-up so many possibilities, including working with major manufactures like Tama, a company whose products I have used for many years so it seemed a natural fit.

What do you think about the future of farming and agriculture?

Farming is no doubt facing some serious challenges at the moment. I think becoming more efficient is going to be vital for all sizes of farm. Dealing ethically with by-products of farming such as gases and plastics will help the industry become more sustainable. Tama is leading the way in partnership with Healix in transforming used twine and netwrap into brand new virgin polymer, which is then used to create new twine and netwrap. I was able to see and video the processes at Healix which is well worth a watch if you haven't seen it. On the whole I am looking forward to the challenges ahead, it will certainly be interesting!

<https://youtu.be/ZZbSuA1QDoE>

George's Ford TW25, powering a Lely welger RP 235 profi round baler making silage



TOGETHER WE GROW FOR CHANGE



TAMA group is following their environmental strategy of Reduce – Reuse – Replace.

Over the years, Tama has already reduced and re-used waste from its own manufacturing sites.

Operations are looked at in every stage of plastic production to develop more sustainable netwrap and twines. TAMA is aware of the fact that plastic is an essential part of agriculture in general and the baling industry in particular. And we understand that agricultural plastic waste is a challenge that urgently needs to be addressed

Cooperation

Changing to more sustainable manufacturing methods will protect the land, so future generations of farmers will be able to grow the food we all depend on.

Tama has therefore implemented a collection and recycling process in cooperation with Adivalor in France and Healix in the Netherlands. This starts on the farms with the removal, shaking (i.e. cleaning) of netwrap and twine and the subsequent collection via Adivalor. The plastic waste is then taken to the Healix recycling plant in Maastricht, where it is further cleaned and re-processed

into high quality infinity polymers. These polymers are then repacked and shipped to Tama's factories and return to the fields as new crop baling products.

The new high-performance twines are used in significant percentages of recycled content, have been and are tested all over the world. "These products are compatible with all balers and definitely offer the same performance and quality as other Tama crop baling products.

Healix

Located in Maastricht in the Netherlands - HEALIX designed and set up their plant to clean and recycle fiber waste. Marcel Alberts is the founder of Healix and has been active in the fiber and technical textile industry for almost two decades. Healix transform used ropes and nets from fishing and farming to virgin-like polymers for the manufacturing supply chain. The proven techniques, process, and design of the recycling plant enable the creation of high-quality products. The plastic fiber waste is processed into granules in three steps. After big bales of used twines that comes from farms are shipped to Maastricht, the fibers are reduced in size. Then the small particle is washed and dried to make sure they are clean. In the third step, the particle is melted, filtered, and processed into granules for the global production chain.

The Virtues of 1800 metres roll length and innovating sleeve-packaging silage wrapping film

More and more baled silage contractors around the world are making the switch from what has been the traditional 1500m roll to a new advanced 1800m roll of silage bale wrapping film. With its added convenience and efficiency, this is no surprise.

Investment in new technology and out of the box thinking has made it possible to increase roll length from the traditional 1500m to 1800m. With this additional 300m length, contractors can wrap 20% more bales per reel, meaning less downtime to change reels, saving more time for the important things in life. Those who make the switch will also benefit from the film's enhanced oxygen barrier and UV protection for bales, whatever the weather, suitable for use on both round and square bales and on any type of crop and bale wrapping machinery.

The 1800m roll has been achieved by replacing the traditional box with innovative sleeve packaging, utilising wasted space allowing for this additional 300m per roll. This new packaging offers significant advantages for all users. Pallets are more stable for handling and transportation with less movement between the reels. The sleeve is ten times lighter than a standard cardboard

carton, this combined with the 20% longer length means that for every ten pallets of 1500m film the number of pallets required is reduced to just eight, resulting in an overall reduction of almost 45kg in packaging material used on every pallet.

The convenient sleeve packaging means that there are no bulky boxes to handle and dispose of and recycling is made easier as the sleeve packaging is made from the same material as the bale wrap. No separating of recycling materials is required. A further advantage of sleeve packaging is that it does not need to be removed until it is on the pre stretching unit of the wrapper, giving better protection to the film and quicker loading of new rolls. In addition, the water repellent cardboard core also gives protection against humidity and is recyclable. Offering significant time saving, the use of 1800m rolls results in 20% less handling, transportation and storage space required for users.

With these benefits, is it any wonder that farmers and contractors alike are ditching the box? Free up 20% more of your time with 1800m balewrap. Contact your local crop baling dealer today!

Customers of tama are now getting additional solutions for cereal and silage storage

Tama is proud that it is a company founded by people who live off the land. We are farmers ourselves, which is emphasised by our slogan "Farm Grown Solutions" and we try to provide people like us with the best solutions, products that have the most added value and make the already hard enough work of our customers easier.

For this reason, we decided to add grain and silo bags to our product range for storing cereals and silage, due to several benefits for customers. These products are also successfully used to store other raw materials and semi-finished products, such as spent grains or pulps. The solutions we offer in this area were introduced to the European market in cooperation with the highly regarded and world's largest manufacturer, Ipsesa. The choice of a partner is not accidental because the quality of the product and the safety of our customers' crops are always our priority, and Ipsesa products are known and recommended throughout the world.

Of course, it is worth explaining what the most important advantages of these bags are and what benefits the farmer receives from their use. Therefore, below we are going to describe the most important of them.

Bags are a very convenient, cost-effective and safe method of storage that ensures with little effort, a huge increase in the storage capacity of crops. Without the need for large construction projects you can temporarily

increase the capacity of your "warehouses" in an almost unlimited way. Sleeves only require a properly prepared surface and relatively small investment in machinery.

Another very important benefit for the end user is total flexibility and independence during harvesting. Using this solution speeds up work during harvesting, reduces crop losses, and allows a reduction of costs and the possibility of negotiating better prices for both transport and grain sales, because growers and farmers can sell, dry and



Store your crops wherever it is convenient for you with grain and silo bags

transport their goods at the most convenient time. Such flexibility makes it much easier to manage your business and achieve the best possible financial results.

Grainbags will hold grain for quite some time and can provide a home for grains with a slightly higher moisture content without losing any quality, as we can often see with silos. This is because the grainbags will create an anaerobic environment preventing growth of Mold, Fungus as well as killing off any bugs and pests.

Silobags can also be the ideal solution for silage crops too. Silobags can create an excellent alternative for bales or silage clamps:

- Expenditure related to the preparation of infrastructure is lower.

- Time is saved during production.
- Contamination of the silage with soil components can be reduced.
- Due to the width of the sleeves, there is also less feed loss around the edges.

All these benefits make bags an increasingly viable solution in Europe. In recent years, this method has become very popular in the eastern part of the continent due to the size of farms and limited investment in infrastructure to date. The advantages of this solution will also extend to Western European countries now, where companies from the agricultural industry and farmers will make use of this alternative type of product storage more and more often. Saving them time and money.

2023 – Less turmoil but think wisely on your buying decisions

Following the turmoil of last year's events in Ukraine and earlier issues of supply chain shortages, things now appear much more stable in 2023. The price increases we saw over the last two years have now slowed and we will see some calmness back in the market. However, this doesn't mean prices will fall and indeed may never go back to where they were.

The outlook for the coming year will likely see continued higher price across netwrap, twine and stretchfilm. It makes good business sense to shop around, of course, but be mindful and consider all elements when deciding

upon your chosen Crop Baling Products. Performance, product length, product coverage, ease of use, environmental impact, top-ups in the season and dealer support are all key factors in ensuring you get the best value from your purchases. Basing your decision solely on price is never a good business strategy, consider instead the value you are adding to preserve your crop, the time saved that trouble free baling and wrapping provides, the pride in creating better looking bales, or simply just the peace of mind that you have back-up and support when you need it.

Tama brings its Pallet Wrap knowledge to the UK

2022 was a challenging year for producers not just in the UK but across Europe as well.

Extreme heat and extended spells of dry weather left the UK produce growers with a real battle on their hands. But the challenge wasn't only with growing conditions. Storage and transport were affected as well ensuring the produce arrived at its destination in top condition.

Ed Leggett, Pallet Wraps Regional Sales Manager explains more.

"This year has driven producers to look at all aspects of their operation. With the extreme heat, reduced cropping in some areas and the increase in energy costs producers have been looking at ways to improve their operation. One that is often overlooked is how the pallet is wrapped and most importantly how it arrives at their customers.

Because of this there has been an increased demand for ventilated pallet wrapping that allows the pallets to breathe. Many producers have seen issues around condensation this season. Moving pallets from stores, packhouses and though the supply chain has exposed pallets to multiple temperature changes.

Walking the wholesale markets across the country in the early hours of the morning I noticed more producers having issues with condensation. Often causing damaged to paper

bag products as well as those in boxes. Potential customers would make a split-second judgement based on how the pallet looks and would often walk past to a pallet that had no condensation issues".

"Luckily, we have just the solution" said Ed. "Our range of ventilated pallet wraps in both machine application and hand rolls have helped many new customers reduced condensation on their pallets. Tama have been in the industry for 40+ years so we know a thing or two about making pallet wrap.

All our products are full of patented technology that allows for maximum ventilation as well as maximum support. Ed explains more. Often the key to a well wrapped pallet is to ensure its well supported, traditionally this means the pallet has more layers of wrapping applied. Which when you're looking for ventilation is a negative, the more wraps applied, the less amount of ventilation is achieved.

Our products are designed so you can use less wraps per pallet allowing for maximum ventilation compared to other products in the marketplace. Also, quicker wrapping times are achieved by simply having to spend less time wrapping.

Overall our advantages allow the producers product to arrive in the best possible condition to their customers which is the key factor".



Clwyd community heroes praised at national awards



A Clwyd Young Farmers' Club has been recognised for a national award for its efforts supporting its rural community during the Covid-19 pandemic.

Uwchaled YFC in Clywd was given the Community Spirit Award, sponsored by Tama, at The National Federation of Young Farmers' Clubs' (NFYFC) YFC Achiever Awards 2022, sponsored by Kärcher UK.

The annual YFC Achiever Awards recognise the achievements of members and clubs during the previous membership year. This year's event was held at the National Conference Centre in Birmingham on Saturday 11 February, and was introduced by NFYFC President and former international rugby referee Nigel Owens MBE.

Uwchaled YFC members were rewarded for their good deeds – delivering food, medicines and supplies to the vulnerable people of their community during the pandemic. Senior club members also volunteered to help the local GP surgery with stewarding on vaccination days.

During the first Christmas lockdown – when most events were cancelled due to restrictions – members were keen to raise spirits. They created 80 wreaths, which were left on doorsteps of the older people living on their own in the community with a note saying "Cyfarchion Stepen Drws", translating to "Door Step Greetings" in English.

The following Christmas, with restrictions lifted, the club celebrated by driving a tractor and trailer decorated in fairy lights around eight local villages, raising £1,200 for the Welsh Air Ambulance.

But it wasn't just their own local community that Uwchaled YFC supported. Following the invasion of Ukraine, members collected essential items such as clothes, shoes and coats and took them to a warehouse in Wrexham from where they were

sent on to Ukraine.

Club Chair Ceridwen Edwards said:

"We were in shock to find out we had won! We cried a lot of happy tears.

"We're doing so much for the community. We're a 100% Welsh language club and we're doing so much for the Welsh language in the community too. We're very proud and we're so grateful for winning this award."

The club's efforts impressed the judging panel, which consisted of Ellen Helliwell, the shepherdess from the first series of TV programme Clarkson's Farm, Olly Harrison, a farmer and YouTube blogger, and James Nixey, NFYFC's Membership and Marketing Group Vice Chair.

Tama is a proud sponsor of the Community Spirit Award 2022 and Warren Tatton, Tama UK Commercial Manager, said:

"Working with the NFYFC means a great deal to us. Tama, being farmer owned, understands what it takes to be a farmer and what it means to provide support and guidance to the next generation.

"We congratulate Uwchaled YFC in Clywd on their achievement of gaining the Community Spirit award. The actions taken during the pandemic by the club provided vital support to their community at a time of great need. Well done to all at Uwchaled YFC!"

The Community Spirit Award is one of eight award categories and all the winners were revealed during the YFC Achiever Awards event on 11 February 2023.



See more information about all five finalists of the Community Spirit Award at

www.nfyfc.org.uk/communityspiritfinalists22

More information about joining a local YFC can be found at

www.nfyfc.org.uk/Becomingamember/Becomingamember



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