Wrapping square bales

Wrapping square bales poses much more of a challenge than round bales, as the bale cross-section is continually changing relative to the plane of the film web coming from the film roll.

The ever changing bale surface shape the film is being applied to, as the bale turns, creates varying degrees of tension to the film web. When wrapping over corners this can create uneven film stretch against the bale, resulting in areas of thinner, overstretched film at the point of greatest stress that can easily lead to tearing and film breaks.

Owing to the differing height of some bales compared to their width, the bale may not turn uniformly on the wrapper, causing extreme variation in the film coverage of the bale and exerting increased tension on the film at certain times of the wrapping cycle. As a consequence it is recommended that the bale be wrapped as if applying 2 more film layers than required.

Ideally, for the best quality silage all bales should have AT LEAST 6 film layers, all over the bale. As noted above, to guarantee this might require extra turns of the bale, producing up to 8 layers in some places. For higher Dry Matter forage, this should be the MINIMUM application, with possibly more as required.

The Tama Twine Range

- Fine 22,300′
- Hay 10,000′
- Medium 12,000′
- Big Bale 7,200′
- Big Bale 8,600′

Packs per Pallet	Fine	Medium	Hay	7,200	8,600
	150	80	80	56	56

Trust your valuable crops to Tama

The **Tama** name is a byword for quality in Crop Packaging around the world.
Tama Twine is the best option to secure your valuable crop.

- High strength and consistent.
  High quality twine will help you to maximise baler productivity.
- Smooth running yarn ensures higher output

Tama UAT

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Tama Twine

Premium Baler Twine

Tama Twine

Baling with large rectangular balers continues to increase year on year. With this increase in popularity has come a demand from contractors and large scale farmers to be able to produce ever more dense and compact bales, to maximise the output of the baler.

To satisfy the close tolerances on bale density, weight and bale shape required by the customer, there is a need for a strong baler twine capable of delivering the high performance necessary from such demanding baling conditions.

Tama Big Bale twine is able to offer the high knot strength needed when baling either the heaviest silage bale or the most dense barley straw bales, without letting you or the baler down. Produced under a Quality Assurance System, the exceptional quality and strength of Tama Big Bale twine is derived from a combination of top grade raw materials and manufacturing expertise; taking the highest quality resins and extruding the raw material under closely controlled manufacturing tolerances, to produce the finest yarns from which to make top class baler twine.

Large rectangular straw baling

Very careful attention should be paid to the bale pressure depending upon the type and condition of crop being baled. For instance, during periods of extended dry and hot weather the baler may produce bales with lower density and of significantly less weight than in more humid conditions, with the same baler pressure settings. Increasing the bale density setting, in an effort to produce heavier weight bales, will exert greater tension on the twine and could lead to potential twine failures. In such circumstances it may be advisable to suspend baling until later in the day, when temperatures have dropped and humidity levels increased slightly.

Large rectangular silage baling

For baling good quality large rectangular silage bales, it is important to follow a few simple guidelines:

- Ensure the crop has wilted to a minimum of 40 - 50% dry matter (DM), which will produce well formed bales as well as allowing excellent fermentation.
- Ensure the twine tension is reduced as much as possible, as twine friction experienced between silage bales during baling is much greater than when baling straw.
- Eliminate as much air as possible from the crop when baling, as it is essential that sufficient crop is packed into the top of the bale to avoid misshapen bales being formed, which may be difficult for an automatic bale-wrapper to handle properly. A reduction in forward speed will help to achieve this by increasing the number of wads per bale.

Approximate twine useage

Baler	Packs required for 1,000 bales	Packs required for 5,000 bales	Packs required for 1,000 bales	Packs required for 5,000 bales
	1.5m (5') length bale		2.4m (8') length bale	
Massey Ferguson 2150	9	45	12	60
Massey Ferguson 2160	12	60	17	85
Massey Ferguson 2170	14	70	18	90
Massey Ferguson 2190	16	80	20	100
New Holland BB 9060	9	45	12	60
New Holland BB 9080	14	70	18	90
Claas Quadrant 1150	8	40	11	55
Claas Quadrant 2100	9	45	12	60
Claas Quadrant 3200	13	65	17	85
Krone BigPack 890	9	45	12	60
Krone BigPack 1270	12	60	17	85
Krone BigPack 1290	14	70	18	90
Vicon LB8020	9	45	12	60
Vicon LB1270	12	60	17	85
Vicon LB1290	14	70	18	90
Welger 4060	9	45	12	60
Welger 6060	12	60	17	85

These figures are approximate and are supplied as a guide to assist in baling. Actual numbers may vary slightly.