



BALING GUIDE

BALING TWINE SELECTION GUIDE



Let's start →

7 QUESTIONS TO ASK THE END-USER

TOP 3 QUESTIONS TO ASK

| Question | Possible Answers | Please note |
|---|---|---|
| <p>1</p> <p>Which brand and model number baler(s) do you use?</p> | <p>Standard density balers</p> <p>High density balers</p> <p>Single knotter balers</p> <p>Ultra-High density balers</p> | <p>Require a lower strength twine.</p> <p>Require a higher strength twine.</p> <p>Typically require a higher strength twine due to friction.</p> <p>Require the highest strength twine on the market in most conditions.</p> |
| <p>2</p> <p>What type of crops do you primarily bale?</p> | <p>Alfalfa, silage and some grass hays</p> <p>Timothy, Sudan, Rye and Teff grass hays</p> <p>Grain hay – Barley, Oats, Wheat, Triticale</p> <p>Straw and Cornstalks</p> | <p>Typically do not require the strongest twine for each baler model.</p> <p>Require a bit more twine strength due to their moderately springy nature.</p> <p>React very similar in the baler compared to straw. For these crops it is suggested to use the higher end of twine recommendations per model.</p> <p>Most types of straw typically require the strongest twine per baler model, but it also depends on the end-user's operating preference and target bale weight.</p> |
| <p>3</p> <p>What are your typical baling conditions?</p> | <p>Moderate conditions</p> <p>Hot, dry and extreme conditions</p> | <p>May only require lower to medium range of twine for their baling needs depending on the crop being baled.</p> <p>Often require the strongest twine per application and baler model.</p> |

New Holland Twines Selling Points

When you purchase twine from New Holland, you're not just getting a product. You're getting a solution that offers you these benefits:

- Longer, stronger and more reliable than any other twines on the market.
- Specifically developed to get the most out of your equipment.
- Super Long Length Large Square series provides increased productivity with even longer length spools, meaning fewer spool changes and less waste throughout the season.

Please note that your customers often are aware of the right twine for their operations, but the answers to these key questions can help guide them towards other options that may increase their productivity and efficiency in the field.

| Question | Possible Answers | Please note |
|---|--|--|
| <p>4 What's your preferred driving speed while baling?</p> | <p>Lower driving speeds (2 – 6mph)</p> <p>High driving speeds (6 – 12mph+)</p> | <p>Offer more suitable conditions for the lower strength twines per model.</p> <p>Require higher strength twines, depending on the type and volume of crop being baled.</p> |
| <p>5 How many flakes per bale do you prefer?</p> | <p>45+ flakes per bale</p> <p>36 – 44 flakes per bale</p> <p>Lower flake counts per bale (35 flakes per bale or less)</p> | <p>High flake counts reduce the stress on the twine, but may cause additional baler wear.</p> <p>The ideal range for most large square balers and helps to better compress the bale in the chamber and reduces stress on the twine.</p> <p>Puts a greater stress on the twine leading to a faster rate of expansion of the bale when leaving the chamber, therefore requiring a higher strength twine per baler model.</p> |
| <p>6 What's your ideal bale weight?</p> | <p>This is especially important information to know for the end-users who are baling grass crops and straw. The higher the bale weight per model that they are targeting, the higher the strength of twine is needed to maintain the bale integrity.</p> | |
| <p>7 Which do you prefer?</p> | <p>Highest efficiency</p> <p>Highest strength & heaviest bales</p> | <p>A smaller twine diameter will perform better in the knotters, with less misties and fewer adjustments/maintenance.</p> <p>The highest demanding operations which prefer the heaviest bales require the strongest twine on the market, but in some cases may require more knotter maintenance throughout the season.</p> |

- Fully validated by New Holland engineering for total reliability and efficiency in the field across a wide range of crops and conditions.
- All New Holland Twines exceed stated length and strength.
- Unrivaled knot performance.
- Spool identification on every spool for maximum traceability.
- Special UV light inhibitors to withstand intense exposure over long periods.
- All Large Square and HD twines are proudly made in the USA.



| MANUFACTURER MODEL # | BALE SIZE | # OF KNOTTERS | KNOTTER TYPE | BALE DENSITY | Twine Type for FORAGE bales | Twine Type for STRAW or CEREAL bales |
|------------------------|-----------|---------------|--------------|--------------|-----------------------------|--------------------------------------|
| 590 | 3 X 3 | 4 | Double | Standard | 350/400/440 | 400/440/450/500 |
| BB 230 | 2 X 3 | 4 | Double | Standard | 350/400/440 | 400/440/450/500 |
| BB 940 | 3 X 3 | 4 | Double | Standard | 350/400/440 | 400/440/450/500 |
| BB 960 | 3 X 4 | 6 | Double | Standard | 350/400/440 | 400/440/450/500 |
| BB 980 | 4 X 4 | 6 | Double | Standard | 350/400/440 | 400/440/450/500 |
| BB 9060 | 3 X 3 | 5 | Double | Standard | 350/400/440 | 400/440/450/500 |
| BB 9080 | 3 X 4 | 6 | Double | Standard | 350/400/440/500 | 400/440/450/500 |
| BB 330 | 3 X 3 | 4 | Double | Standard | 350/400/440 | 400/440/450/500 |
| BB 330 PLUS | 3 X 3 | 4 | Double | Intermediate | 350/400/440 | 400/440/450/500 |
| BB 340 | 3 X 4 | 6 | Double | Standard | 350/400/440 | 400/440/450/500 |
| BB 340 PLUS | 3 X 4 | 6 | Double | Intermediate | 400/440/500 | 400/440/450/500 |
| BB 340 HD LOOPMASTER * | 3 X 4 | 6 | Double | High | 400/440/450/500/550 | 450/500/550/600 |

* Can fit XL spools (14"- Super Long Length Large Square)



| MANUFACTURER MODEL # | BALE SIZE | # OF KNOTTERS | KNOTTER TYPE | BALE DENSITY | Twine Type for FORAGE bales | Twine Type for STRAW or CEREAL bales |
|----------------------|-----------|---------------|--------------|--------------|-----------------------------|--------------------------------------|
| 8575 | 3 X 3 | 4 | Double | Standard | 350/400/440 | 400/440/450 |
| 8585 | 3 X 4 | 6 | Double | Standard | 350/400/440/450 | 400/440/450/500 |
| 8580 | 4 X 4 | 6 | Double | Standard | 350/400/440 | 400/440/450 |
| LB 332 | 3 X 3 | 4 | Double | Standard | 350/400/440 | 400/440/450 |
| LB 333 | 3 X 3 | 4 | Double | Standard | 350/400/440 | 400/440/450 |
| LB 431 | 3 X 4 | 6 | Double | Standard | 400/440/450 | 400/440/450/500 |
| LB 432 | 3 X 4 | 6 | Double | Standard | 400/440/450 | 400/440/450/500 |
| LB 334 | 3 X 3 | 4 | Double | Standard | 400/440/450 | 400/440/450/500 |
| LB 434 | 3 X 4 | 6 | Double | Standard | 400/440/450 | 440/450/500/550 |
| LB 434 XL * | 3 X 4 | 6 | Double | Intermediate | 400/440/450/500 | 440/450/500/550 |
| LB 436 HD * | 3 X 4 | 6 | Double | High | 400/440/450/500/550 | 500/550/600 |

* Can fit XL spools (14"- Super Long Length Large Square)

JOHN DEERE

| MANUFACTURER MODEL # | BALE SIZE | # OF KNOTTERS | KNOTTER TYPE | BALE DENSITY | Twine Type for FORAGE bales | Twine Type for STRAW or CEREAL bales |
|----------------------|-----------|---------------|--------------|--------------|-----------------------------|--------------------------------------|
| 100 | 3 X 3 | 4 | Single | Standard | 350/400/440 | 400/440/450 |
| L330 | 3 X 3 | 4 | Double | Standard | 350/400/440 | 400/440/450/500 |
| L340 | 3 X 4 | 6 | Double | Intermediate | 400/440/450 | 440/450/500/550 |
| L331 * | 3 X 3 | 4 | Double | Standard | 350/400/440/450/500 | 400/440/450/500/550 |
| L341 * | 3 X 4 | 6 | Double | Intermediate | 350/400/440/450/500 | 440/450/500/550/600 |

* Can fit XL spools (14"- Super Long Length Large Square)

KRONE

| MANUFACTURER MODEL # | BALE SIZE | # OF KNOTTERS | KNOTTER TYPE | BALE DENSITY | Twine Type for FORAGE bales | Twine Type for STRAW or CEREAL bales |
|------------------------------|-----------|---------------|--------------|--------------|-----------------------------|--------------------------------------|
| 870 HDP MULTIBALE | 2 X 2.5 | 5 | Double | High | 450/500 | 450/500/550 |
| 890 | 3 X 3 | 4 | Double | Standard | 350/400/440 | 400/440/450/500 |
| 1270 | 2 x 4 | 6 | Double | Standard | 350/400/440 | 400/440/450/500 |
| 1290 * | 3 X 4 | 6 | Double | Standard | 400/440/450/500 | 440/450/500/550 |
| 1290 HDP (XC & HIGH SPEED) * | 3 X 4 | 6 | Double | High | 500/550/600 | 550/600/700 |
| 1290 HDP II * | 3 X 4 | 8 | Double | High | 500/550 | 500/550/600 |
| BIG PACK 4X4 * | 4 X 4 | 6 | Double | Intermediate | 400/440/450/500 | 440/450/500/550 |

* Can fit XL spools (14"- Super Long Length Large Square)

KUHN

| MANUFACTURER MODEL # | BALE SIZE | # OF KNOTTERS | KNOTTER TYPE | BALE DENSITY | Twine Type for FORAGE bales | Twine Type for STRAW or CEREAL bales |
|----------------------|-----------|---------------|--------------|--------------|-----------------------------|--------------------------------------|
| LSB 870 | 2 X 3 | 4 | Single | Standard | 440/450/500 | 450/500 |
| LSB 890 | 3 X 3 | 4 | Single | Standard | 440/450/500 | 450/500 |
| LSB 1270 | 2 X 4 | 4 | Single | Standard | 440/450/500 | 450/500 |
| LSB 1290 DX * | 3 X 4 | 6 | Single | High | 500/550/600 | 550/600/700 |
| SB 870 | 2 X 3 | 4 | Double | Standard | 350/400/440 | 400/440/450/500 |
| SB 890 | 3 X 3 | 4 | Double | Intermediate | 350/400/440 | 400/440/450/500 |
| SB 1270 | 2 X 4 | 6 | Double | Standard | 350/400/440 | 400/440/450/500 |
| SB 1270X | 2 X 4 | 6 | Double | High | 440/450/500 | 450/500/550 |
| SB 1290 * | 3 X 4 | 6 | Double | Intermediate | 400/440/450/500 | 440/450/500/550 |
| SB1290 ID * | 3 X 4 | 6 | Double | High | 500/550/600 | 500/550/600 |

* Can fit XL spools (14"- Super Long Length Large Square)

MASSEY FERGUSON | HESSTON | AGCO | CHALLENGER

| MANUFACTURER MODEL # | BALE SIZE | # OF KNOTTERS | KNOTTER TYPE | BALE DENSITY | Twine Type for FORAGE bales | Twine Type for STRAW or CEREAL bales |
|----------------------|-----------|---------------|--------------|--------------|-----------------------------|--------------------------------------|
| 4755 | 3 X 3 | 4 | Double | Standard | 350/400/440 | 400/440/450/500 |
| 4760 | 3 X 3 | 4 | Double | Standard | 350/400/440 | 400/440/450/500 |
| 4790 | 3 X 4 | 6 | Double | Standard | 400/440/450 | 400/440/450/500 |
| 4900 | 4 X 4 | 6 | Double | Standard | 350/400/440/450 | 400/440/450/500 |
| 4910 | 4 X 4 | 6 | Double | Standard | 350/400/440/450 | 400/440/450/500 |
| 7433 * | 3 X 3 | 4 | Double | Standard | 350/400/440 | 400/440/450/500 |
| 7434 * | 3 X 4 | 6 | Double | Intermediate | 350/400/440/450 | 400/440/450/500/600 |
| 7444 * | 4 X 4 | 6 | Double | Standard | 400/440/450/500 | 440/450/500/550 |
| 2150 * | 3 X 3 | 4 | Double | Standard | 350/400/440 | 400/440/450/500 |
| 2170 * | 3 X 4 | 6 | Double | Intermediate | 400/440/450/500 | 400/440/450/500/550 |
| 2170 XD * | 3 X 4 | 6 | Double | High | 400/440/500/550 | 450/500/550/600 |
| 2190 * | 4 X 4 | 6 | Double | Standard | 350/400/440/450/500 | 440/450/500/550 |
| 2250 * | 3 X 3 | 4 | Double | Standard | 350/400/440 | 400/440/450/500/550 |
| 2270 * | 3 X 4 | 6 | Double | Intermediate | 400/440/450/500 | 400/440/450/500/550 |
| 2270 XD * | 3 X 4 | 6 | Double | High | 400/440/450/500/550 | 450/500/550/600 |
| 2370 ULTRA * | 3 X 4 | 6 | Double | Ultra High | TBD | TBD |
| 2290 * | 4 X 4 | 6 | Double | Intermediate | 350/400/440/450/500 | 440/450/500/550 |

* Can fit XL spools (14"- Super Long Length Large Square)

CLAAS

| MANUFACTURER MODEL # | BALE SIZE | # OF KNOTTERS | KNOTTER TYPE | BALE DENSITY | Twine Type for FORAGE bales | Twine Type for STRAW or CEREAL bales |
|----------------------|-----------|---------------|--------------|--------------|-----------------------------|--------------------------------------|
| 2100 | 3 X 3 | 4 | Single | Standard | 440/450/500 | 450/500 |
| 2200 | 3 X 4 | 6 | Single | Standard | 440/450/500 | 450/500 |
| 3300 | 3 X 4 | 6 | Single | Standard | 440/450/500 | 450/500 |
| 5300 * | 3 X 4 | 6 | Single | High | 500/550/600 | 550/600/700 |

* Can fit XL spools (14"- Super Long Length Large Square)

New Holland North America Product Range



| Small Square | Minimum Knot Strength | Spools per Bale | Bales Per Pallet | Standard Color+ |
|---|-----------------------|-----------------|------------------|--------------------|
| 9,000 boxed | 130 | 2 | 60 | Rust, Blue |
| 7,200 boxed | 170 | 2 | 50 | Rust, Blue |
| 7,200 SS | 190 | 1 | 60 | Rust, Blue |
| 9,600 boxed | 170 | 2 | 40 | Rust, Blue |
| 9,600 boxed | 210 | 2 | 40 | Rust, Blue |
| Medium Square / 3-Tie | | | | |
| 5,000 SS/BA | 210 | 1 | 80 | Rust, Blue |
| 6,500 SS/BA | 210 | 1 | 48 | Rust, Blue |
| 6,500 SS/BA | 240 | 1 | 48 | Rust, Blue, Yellow |
| Stampede® 8,500 SS/BA | 245 | 1 | 48 | Rust, Blue |
| 7,400 SS/BA | 250 | 1 | 48 | Rust, Blue |
| 7,000 SS/BA | 280 | 1 | 48 | Rust, Blue |
| Large Square  | | | | |
| 4,000 SS | 350 | 1 | 48 | Rust, Blue |
| 4,850 SS | 350 | 1 | 48 | Rust, Blue |
| 4,000 SS | 400 | 1 | 48 | Rust, Blue |
| 4,750 SS | 400 | 1 | 48 | Rust, Blue |
| 4,000 SS | 440 | 1 | 48 | Rust, Blue, Yellow |
| 4,000 SS | 450 | 1 | 48 | Rust, Blue |
| 4,000 SS | 500 | 1 | 48 | Rust, Blue |
| HD 4,000 SS | 550 | 1 | 48 | Rust, Blue |
| HD 4,900 SS* NEW | 550 | 1 | 36 | Rust, Blue |
| HD 3,500 SS | 700 | 1 | 48 | Rust, Blue |
| Super Long Length Large Square*  | | | | |
| 6,200 SS | 350 | 1 | 48 | Rust, Blue |
| 5,830 SS | 400 | 1 | 48 | Rust, Blue |
| 5,400 SS | 440 | 1 | 48 | Rust, Blue |
| 5,000 SS | 500 | 1 | 48 | Rust, Blue |
| HD 4,400 SS | 600 | 1 | 48 | Rust, Blue |
| Slit Film Round | | | | |
| 20,000 SS/BA | 110** | 1 | 80 | Rust, Blue, Yellow |
| 20,000 boxed | 110** | 2 | 50 | Rust, Blue |
| 20,000 boxed | 130** | 2 | 50 | Rust, Blue |
| 20,000 boxed | 150** | 2 | 50 | Rust, Blue |
| Clearfield 20,000 | 110** | 1 | 80 | Light Green |
| Monofilament Round | | | | |
| Sidewinder™ 20,000 boxed | 110** | 2 | 50 | Red/Clear |
| Stinger® 20,000 boxed | 140** | 2 | 50 | Blue/Clear |

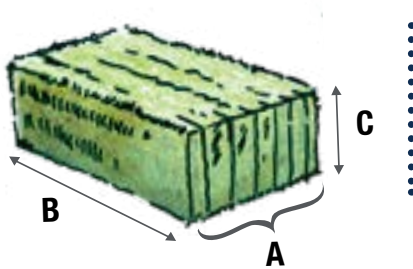
* Tall Spool: 14"
** Tensile Strength

SS: Single Spool | BA: Box Available

Other colors available upon request

All Large Square and HD twines are proudly made in USA

How many bales can be produced from one spool of twine?



A = Number of Knotters (4/6/8)
 B = Bale length (Example: 8ft)
 C = Bale height (Example: 3ft)



1. Calculate how much twine is needed to produce one bale:

- Determine the size of the bale
 (in the example the bale is 3 X 4 X 8 OR 3 ft high by 4 ft wide by 8 ft long)
- Determine the number of knotters (in the example there are 6)

| Length | + | Height | x | 2 | x | Number of knotters | = | Feet of Twine/ Bale |
|--------|---|--------|---|---|---|--------------------|---|------------------------|
| (8 | + | 3) | x | 2 | x | 6 | = | 132 Feet of Twine/Bale |

2. Calculate how many bales you can make from 1 spool:

- Divide the length of the spool by how much twine you need to produce 1 bale.

| Length of Spool | ÷ | Twine to make 1 Bale | = | # of Bales per Spool |
|-----------------|---|----------------------|---|----------------------|
| 4,000 | ÷ | 132 ft | = | 30 bales |
| 5,400 | ÷ | 132 ft | = | 41 bales |

3. Calculate how many spools of twine are needed for the season:

- Divide the approximate number of bales per year by the number of bales that can be made from 1 spool
 In this example an operator makes 6,000 bales per year and is currently using 4,000' / 440 twine

| # of Bales per Season | ÷ | # of Bales per Spool | = | spools needed for the season |
|-----------------------|---|----------------------|---|------------------------------|
| 6,000 | ÷ | 30 | = | 200 |

- Round the number to the nearest pallet quantity - For example the nearest 48 spool pallet quantity for 200 spools is slightly more than 4 pallets. Round up to 5 pallets to have a buffer for changes through the season.