

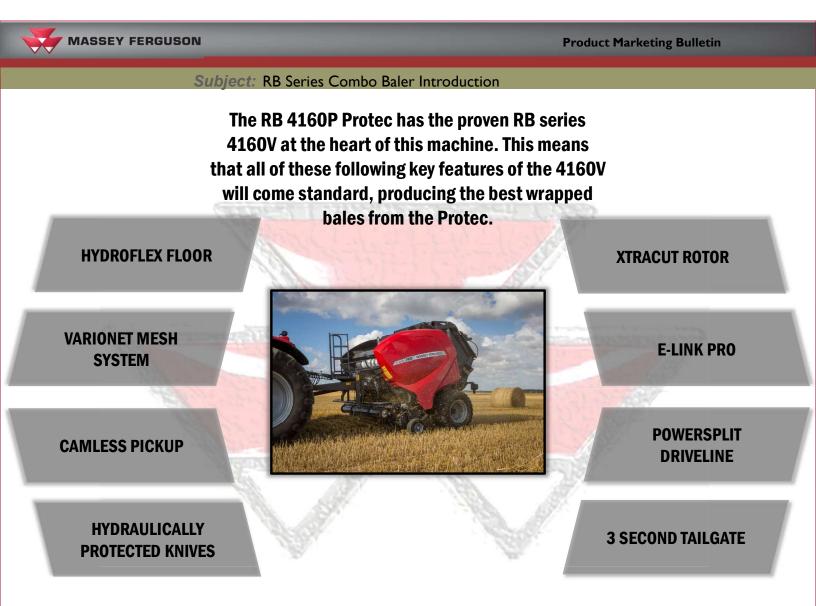
RB 4160P Protec

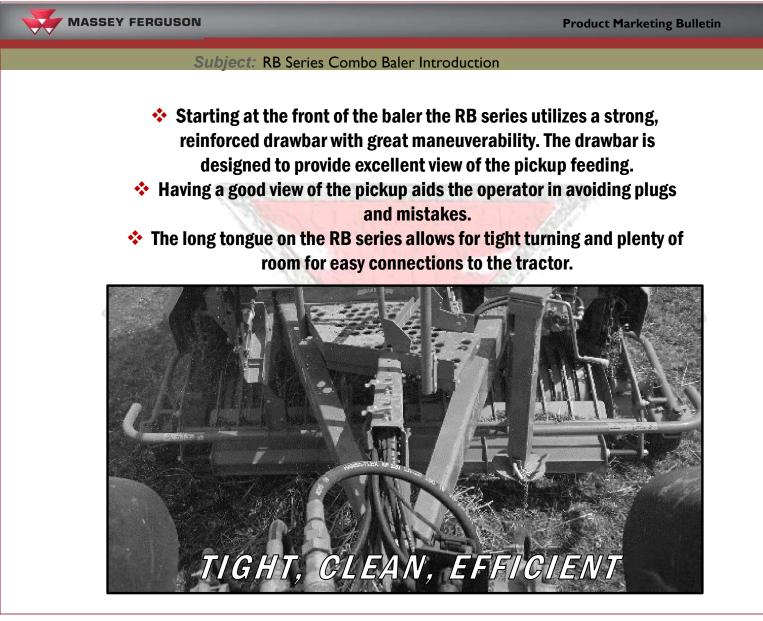
Date:March 20, 2020Bulletin:MF20-16 PMBSubject:MF RB 4160P Protec Wrapper Combo Baler Introduction

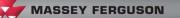


RB 4160P Protec Combo Baler

Massey Ferguson is proud to announce the next model of balers to compliment an already stellar line up from the RB series and Hesston series. The new RB 4160P Protec will immediately be an industry leader in making high quality baleage.







Subject: RB Series Combo Baler Introduction

The 4160P Protec show cases brand new shielding to provide a stylish look and important safety features.

No dust accumulation thanks to smooth door surface. No dust shower.



Protection of spare film rolls from rain and sun.



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Subject: RB Series Combo Baler Introduction



The carefully engineered design of the wrapping unit represents a unique feature of the combination baler.

- Compact 'non-work position'
 - Less parking space needed
 - Easy maneuverability
- Good ground clearance
 - No damage from 'touchdowns'
- Outstanding versatility
 - Compatible with a wide range of materials



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The Protec baler comes standard with one camera to view the wrapping ring during operation. This allows the operator a clear view of:

Bale Transfer
 Unloading
 Driving in reverse







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BALE TRANSFER

A key feature that will set the Protec apart from the competition is the reliable bale transfer system. This short and efficient bale transfer from the bale chamber to the wrapping ring prevents bales from 'jumping off' even in slopes. The transfer wastes no time, as the entire transfer process is only *9 seconds*.







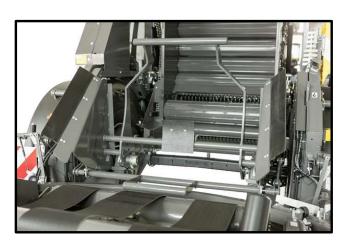


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BALE TRANSFER

Subject: RB Series Combo Baler Introduction





The Protec bale transfer system is a completely automated process where the transfer arm is perfectly synchronized. Film wrapping starts even before the tailgate is closed. The Protec is quick and efficient, putting on 6 layers of wrap in 30 seconds. This is a wrapping speed of 35 rpm.

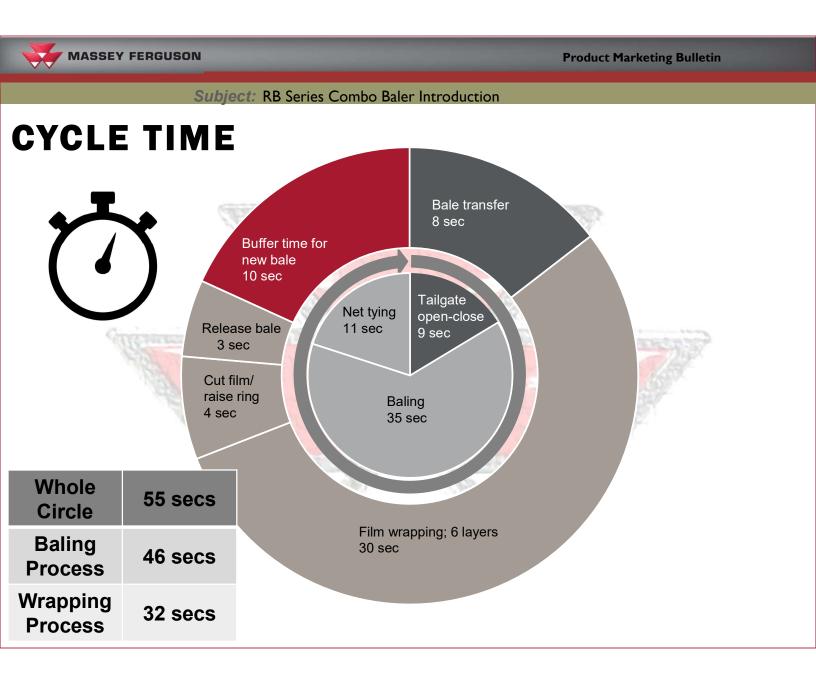
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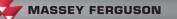


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Slope safety mode protects the bale during transfer on slopes and steep hillsides. The semi-high position to catch fast bales while baling up hillsing remains briefly in the semi-high position to catch fast bales while bales are guided from the actively moving side plates right to the wrapping table is moved into a steeper 'receiving-position.'





WRAPPING

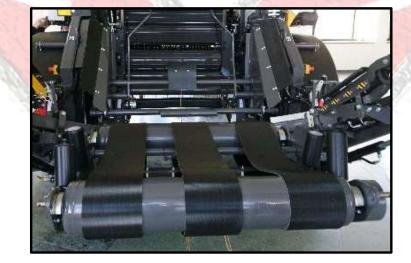
TABLE

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Two rollers and three belts carry and roll the bale.

- Hydraulically driven
 - Automatic adaptively adjusting speed of bale rotation according to the bale diameter and overlap.
- Welded table frame → Robust Linkages
 - Reliable
 - Low maintenance
 - Endless grip belts for perfect rotation
 - Turning edge-limiting cones

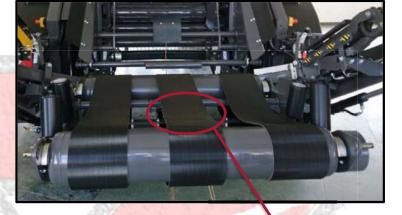






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WRAPPING TABLE



The sensor arm controls the arrival of the bale and measures the speed of the bale rotation with a small sprocket.

- Perfect overlap as the speed of the belts are continuously controlled, able to detect slippage.
 - Consistent overlap on each bale
 - Perfect close-up to exclude oxygen
 - Ideal for fermentation
 - Contributes largely to a well organized monitoring and control process.



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Reliable

Parts

Low

Slippage



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Quiet & Smooth

- Wrapping ring runs between two hydraulically driven rubber rollers
- 11 rubber wheels guide the ring
- High speed (40rpm) can be reached
- Special spring loaded brakes slow down the ring smoothly
 - Disengaged by small hydraulic
 cylinders during the wrapping process
 - Required for accurate and fast wrapping



Durable

& Solid





WRAPPING

RING

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Reliable

Parts

Low

Slippage

Durable

& Solid

Parallel arms with only one double acting ram without hydraulic accumulators
The clamps fix any type of film, this is due to perfect timing and correct lifting range
High operational safety
No stand time due to film not dissolving from the wrapped bale

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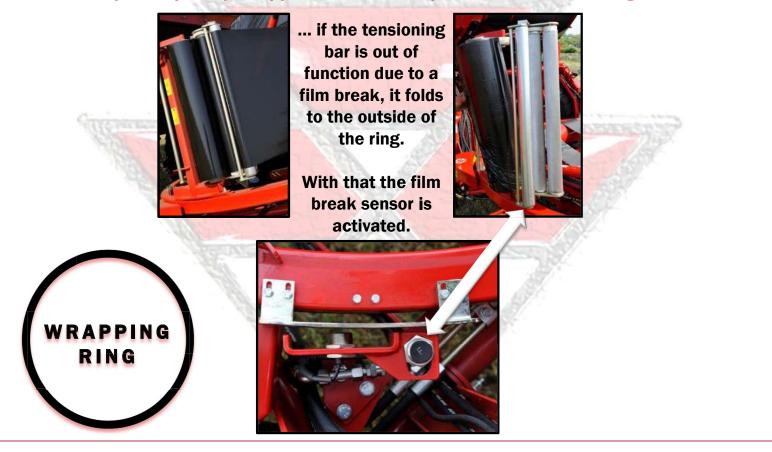
Quiet & Smooth

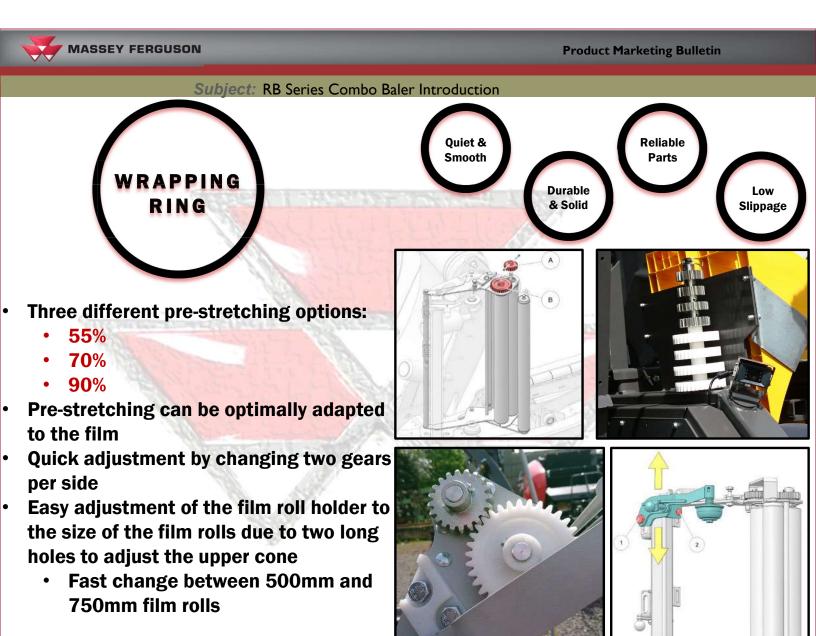
 ✓ Inserting film for the first bale steerable via rear control box



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- Automatic film break sensing
- · Detects if film breaks or if a roll has run out
- Bale rotation slows down and the number of ring rotations is increased
 - \checkmark Always completely wrapped bales even if you have a film breakage or run out of film





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- Rear Control Unit
 - Second control unit makes it possible to control the tailgate, bale transfer, and wrapping unit at the rear of the machine

Buttons	Result
1 + 2	Open tailgate
1 + 3	Tilt bale transfer towards wrapping table
1 + 4	Tilt wrapping table to transport position
1 + 5	Rotate wrapping ring
1 + 7	Lift wrapping ring to transport position
1 + 8	Open film collector
6 + 2	Close tailgate
6 + 3	Tilt bale transfer towards tailgate
6 + 4	Tilt wrapping table to unload position
6 + 5	Rotate wrapping ring
6 + 7	Lower wrapping ring to wrapping position
6 + 8	Close film collector
1 + 4 + 6	Wrapping table moves to wrapping position and stops
1 + 5 + 6	Wrapping ring rotates to home position and stops



NO

5

DO

8

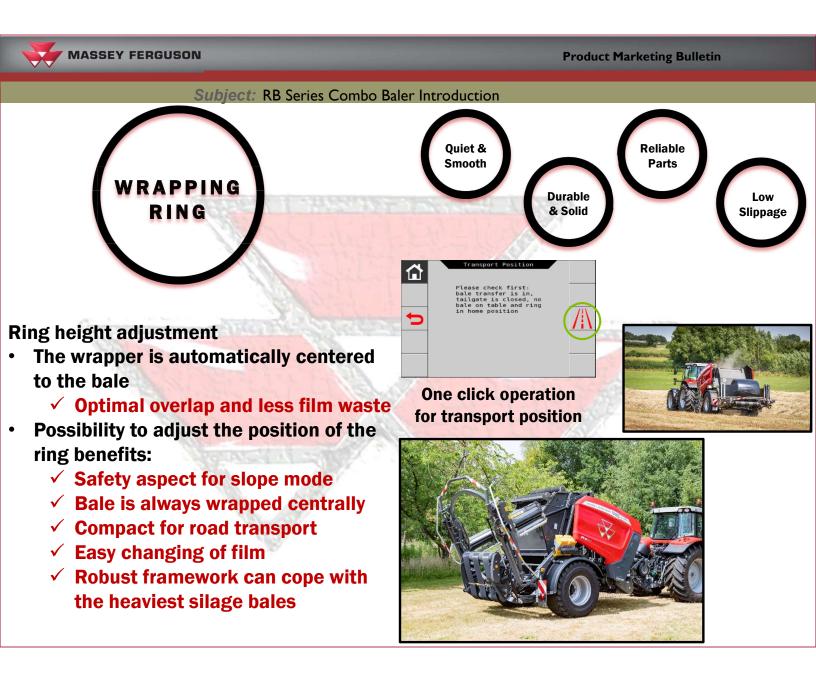
6

2

7

3

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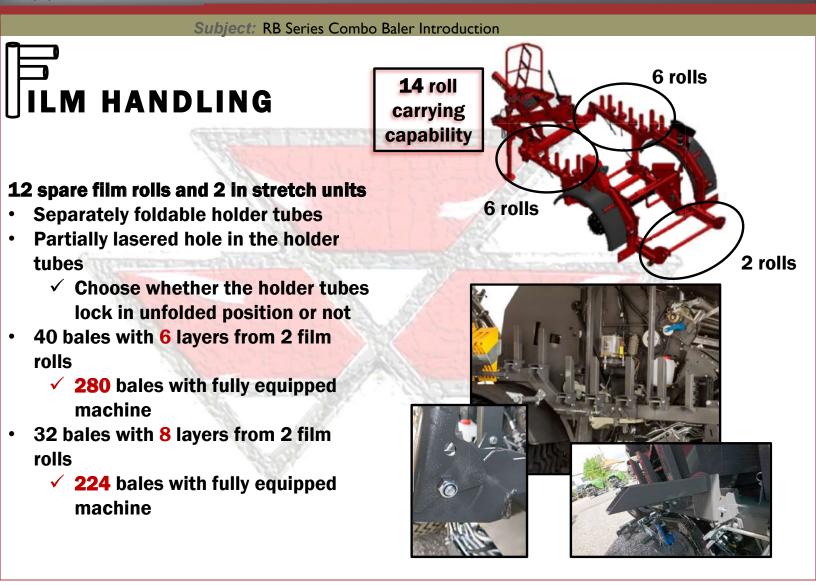
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Perfectly wrapped bales need to be dropped gently to avoid damage to the film

- Low ground clearance for discharge
- Low rolling speed to avoid film damage
 - ✓ No damage to bale wrap due to rough unloading
 - ✓ No air entering the material unintentionally
 - ✓ Shape stability No "egg effect"
 - ✓ Automatic or manual unloading
- Works well with bale tipper option!



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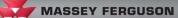
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Quick and easy changing of film rolls

- 1. Open film clamps using rear control box
- 2. Take spare roll from foldable holder
- 3. Place film roll on the bottom cone
- 4. Clamp the roll using the spring loaded lever on top of the stretch unit
- 5. Insert the film in the outlined track
- 6. Fix the film at the film clamps
- 7. Close the clamps using the rear control box
- 8. Continue baling!







Subject: RB Series Combo Baler Introduction

SPECIFICATIONS

MF	RB 4160P Protec
Chamber	Variable
Transport height	124 in / 3.15m
Transport width	114 in / 2.90m
Transport length	232 in / 5.90m
Pickup width	89 in / 2.25m
Tine to tine width	73 in / 1.86m
Chamber dimensions	35 in / 0.90m – 63 in / 1.60m x 48 in / 1.23m
Power requirement	140 hp / 103 kW
Control Unit	E-link Pro / ISO
Cutting unit	XtraCUT 17 knives
Approx. weight	14,440 lbs / 6,550kg