

# McHale

ROUND BALE WRAPPER RANGE



991 L



991 HIGH SPEED



991 B



ORBITAL

[WWW.MCHALE.NET](http://WWW.MCHALE.NET)

The Professional Choice



# MCHALE ROUND BALE WRAPPER RANGE

McHale have been creating high quality agricultural equipment for over 30 years, and during that time a conscious decision has been made to concentrate on the strength and reliability of our products.

Today, McHale is a world leader in the production of high-output bale wrappers. Farmers, contractors and custom workers worldwide use the McHale range of round bale wrappers in the production of fodder.

Through a process of constant innovation, McHale have developed a range of round bale wrappers that consistently performs, delivering superior quality fodder and have earned a reputation for providing:

- HIGH OUTPUT
- EXCELLENT RELIABILITY
- OPERATOR COMFORT
- BEST RESALE VALUE







# CONTENTS

Introduction .....	1 - 2
<b>BALE WRAPPER RANGE</b> .....	<b>3 - 6</b>
<b>991 RANGE</b> .....	<b>7 - 20</b>
Intro to the Range .....	7 - 8
Inner Workings .....	9 - 10
Standard Features .....	11 - 12
991 L Range .....	13
991 B Range .....	14 - 18
991 High-Speed .....	19 - 20
<b>ORBITAL</b> .....	<b>21 - 26</b>
Patents .....	21 - 22
Inner Workings .....	23 - 24
Features .....	25
Control Console .....	26
<b>TECHNICAL TABLE</b> .....	<b>27 - 28</b>



# A FAMILY BUSINESS WITH A GLOBAL PRESENCE



*McHale was founded by Padraic and Martin McHale in the mid 1980s in the west of Ireland and since then has transformed into a **GLOBAL LEADER IN THE MANUFACTURE OF GRASSLAND EQUIPMENT.***

In 1976, Padraic established a farm machinery retail outlet and was later joined in this endeavour by his younger brother Martin. The manufacturing company subsequently evolved from this dealership which is still in existence today.

From the start, Padraic looked after product design and manufacturing while Martin looked after sales and marketing. Although the business has grown substantially since, both brothers are still actively involved in the business and still manage these areas.

Following on from producing blockcutters and a range of slurry pumping equipment, in 1987, McHale manufactured its first round bale wrapper. Martin then developed a dealer and importer network which has expanded to 55 countries around the world.

Over 90% of McHale machines produced are destined for the export market and many of these dealers and importers have been working with McHale for over 30 years.

McHale now produce a wide range of products with a particular focus on grassland machinery. The McHale product range now incorporates:

- **Mowers**
- **Tedders**
- **Rakes**
- **Integrated Baler Wrappers**
- **Fixed Chamber Balers**
- **Variable Chamber Balers**
- **Round Bale Wrappers**
- **Square Bale Wrappers**
- **Straw Blowers & Silage Feeders**
- **Bale Handling and Splitting Equipment**



Padraic and Martin McHale  
in 1990 (above) & 2019 (below)





## Global Manufacturing



Today McHale operate two advanced manufacturing facilities. **Both factories utilise the latest in laser, CNC and robotic technologies.** All products are coated using advanced E-Coat & Powder systems.

As the product is built on the assembly lines, rigorous quality checks are conducted. Every complete machine is run, calibrated and tested before being exported to one of over 55 countries around the world.



## Research & Development



The Research & Development department was established in 1994 and is still run by Padraic who has built a world class team of engineers around him.

All machines go through a **rigorous 3-year product development & testing cycle** before being launched. During the design and development stage all machines go through comprehensive testing with end users in various parts of the world.

Today, **over 10% of the workforce** are involved in new product development.

## Product Support



Our specially **trained team of service engineers** are on hand to help in a quick and precise manner in order to provide the solutions you and your business need.

We also empower the service engineers of our dealers and importers with theoretical and practical training to ensure you receive **high-quality expertise and care** for you, your machine and your business. Qualified and equipped with the necessary knowledge and tools, our aim is to keep your business going at all times.



## Spare Parts



With all parts in stock for McHale machines, our aim is to **supply original parts and components** that are specifically suited to your machine.

McHale stock a wide range of parts for machines produced up to 30 years ago as well as parts for the latest products in the range. These **parts are precisely manufactured** in order to meet the highest standards of performance and reliability.



# MCHALE ROUND BALE WRAPPERS

## 8 MODELS - A WRAPPER TO SUIT YOUR NEEDS

McHale's round bale wrapper range has been designed with the demands of today's **FARMER AND CONTRACTOR IN MIND**. This common-sense approach to design ensures that each machine's operation is **KEPT SIMPLE AND USER FRIENDLY**.

Farmers and contractors all over the world are under pressure to reduce costs and increase output. To help with this, McHale concentrate on features like the patented hydraulic ground supported bale damper system, patented high-speed transfer system, patented tip rollers,

hydraulically operated cut & hold system, 750mm dispensers and high specification components.

These features ensure long working life, reliability and a machine rugged enough to handle the toughest crops, heaviest bales and roughest ground conditions.

### UNFOLD TO VIEW THE RANGE

The McHale **round bale wrapper range** consists of 8 models in 4 categories;

- 01 **991 L Range** (3x options)
- 02 **991 B Range** (3x options)
- 03 **991 High-Speed**
- 04 **Orbital**





# 991 L

## SINGLE DISPENSER - LINKAGE RANGE

There are three machines in the static, linkage range. 1. The **McHale 991 LB** is a manual machine with lever controls. 2. The **McHale 991 LBER** is a remote controlled bale wrapper which can allow for a one man operation of the loading, bale wrapping and stacking functions. 3. The **McHale 991 TBER** is a remote controlled bale wrapper with a trailed chassis.

Bales per hour:  
**40-60\***



### BALE WRAP SIZES:

1 m  
(3'3")

1.52 m  
(5')

# 991 B

## SINGLE DISPENSER - TRAILED RANGE

The 991 B range is made up of three trailed machines. 1. The **McHale 991 BC** is a 4-lever cable controlled machine. 2. The **McHale 991 BJS** is single lever servo joystick machine which uses low-pressure hydraulics to give a smooth transition between functions. 3. The **McHale 991 BE** is an electronic control console machine which fully automates the bale wrapping operation.

Bales per hour:  
**50-60\***



### BALE WRAP SIZES:

1 m  
(3'3")

1.52 m  
(5')

# 991 | HIGH SPEED

## TWIN DISPENSER TRAILED WRAPPER

The McHale 991 High-Speed is a twin dispenser, trailed round bale wrapper, developed for customers who wish to maintain high levels of reliability but require more output. The 991 High-Speed is equipped with two dispensers and can wrap 50% more bales per hour than a standard 991 B machine. All functions on the McHale 991 High-Speed can be controlled from the Expert control console from the comfort of the tractor cab.



Expert Control Console  
(with Optional Radio Remote)



Bales per hour:  
**75-90\***



BALE WRAP SIZES:

**1 m**  
(3' 3")

**1.52 m**  
(5')





## HIGH-SPEED TWIN DISPENSER TRAILED WRAPPER

The McHale Orbital high-speed round bale wrapper harnesses the proven vertical wrapping ring technology used in the McHale Fusion such as the patented high-speed transfer system and the patented tip roller to deliver a high-output, low-maintenance wrapper which is capable of keeping up with multiple balers. These patents ensure high output and superior levels of forage quality are achieved.



**Expert Plus Control Console**  
(with Optional Radio Remote)



Bales per hour:  
**80-100\***





**High-Speed Wrapping System**

1.25m bale

	4 layers of film	.....	<b>18 seconds</b>
	6 layers of film	.....	<b>24 seconds</b>

*\* In standard working conditions with optimal oil flow*



### BALE WRAP SIZES:

**1.1 m**  
(3' 7")

**1.45 m**  
(4' 9")



# 991 RANGE

*The McHale 991 range of bale wrappers sets the pace for efficient and effective round bale wrapping.*

The 991 round bale wrapping range is comprised of three categories of machines. The **991 L range** are static wrapping, linkage machines, used primarily in farm yards after bales have been brought in.

The **991 B range** are our single dispenser, trailed wrappers that have been the backbone of our business since the mid 80's. The **991 High Speed** stands alone in the 991 range as the only twin dispenser machine and can wrap between 80-100, 1.25m (4') bales per hour.





Range	991 L RANGE			991 B RANGE			HIGH SPEED
Machine	991 LB	991 LBER	991 TBER	991 BC	991 BJS	991 BE	991 HIGH SPEED
Single Dispenser	✓	✓	✓	✓	✓	✓	○
Twin Dispenser	○	○	○	○	○	○	✓
Linkage	✓	✓	○	○	○	○	○
Trailed	○	○	✓	✓	✓	✓	✓
Lever/Cable Control	✓	○	○	✓	○	○	○
Servo Joystick	○	○	○	○	✓	○	○
Expert Control Console	○	✓	✓	○	○	✓	✓
Radio Remote	○	✓	✓	○	○	Optional	Optional

## 991 CONTROL OPTIONS



### LEVER CONTROL

Used on the base level machines, these simple levers control the functions on the wrappers. Used on both the 991 LB and the 991 BC, the levers control the lift arm (991 BC only), wrapping table, cut & hold and bale tip.



### SERVO JOYSTICK CONTROL

The 991 BJS is a single joystick servo controller, which uses low-pressure hydraulics, similar to telescopic loader controllers, to smoothly transition between the four functions: lift arm, wrapping table, cut & hold and bale tip.



### EXPERT CONTROL CONSOLE

The Expert electronic control console fully automates the wrapping process. When the auto start lift arm paddle is activated, the bale is lifted up to the wrapping table, wrapped and tipped, ready to start the process again.

### Radio Remote Control Kit for Static Wrapping

The radio remote control kit is used for static wrapping. An operator can load a bale using a loader and then activate an automatic cycle by using the radio remote. While the bale is wrapping, the operator can stack the previously wrapped bale and collect the next netted bale.

When the wrapping cycle is complete, the wrapped bale is automatically tipped. With this automatic remote, one operator can load, wrap and stack the bales, thus completing the entire job on their own. The new radio remote provides an instant action with superior range.





# 991 RANGE

## LINKAGE & TRAILED

THE MCHALE 991 *bale wrapper range sets the pace for efficient and effective round bale wrapping. The 991 range of bale wrappers feature PRACTICAL DESIGN, QUALITY COMPONENTS AND PRECISION ENGINEERING making the McHale bale wrapping range the first choice for contractors and farmers.*

### 01 Damper System BC BJS BE HS

The uniquely-designed McHale patented bale damper system gently lowers the bale to the ground, eliminating any damage and stress on the chassis of the machine.

### 02 Wrapping Table LB LBER TBER BC BJS BE HS

The wrapping table is constructed of four heavy-duty, endless belts that ensure smooth and consistent bale rotation, even when dealing with loose or poorly shaped bales.

### 03 Lights BC BJS BE HS TBER

All McHale 991 trailed bale wrappers are fitted with a new style of light and reflectors.

### 04 Tyres BC BJS BE HS

All McHale 991 B and 991 High-Speed machines come fitted with 340/55/16 tyres. The heavy-duty, 6-stud axle is designed to give greater ground clearance.

### 05 Heavy-Duty Lift Arm BC BJS BE HS

The lift arm on all 991 B & 991 High-Speed round bale wrappers have been strengthened with heavy-duty tubular steel.

### 06 Auto Load Function BE HS

The McHale 991 BE and 991 High-Speed wrappers come with a new auto load lift arm paddle. This paddle activates the wrapping process once a bale is pressed into it.

### 07 Heavy-Duty Gearbox LB LBER TBER BC BJS BE HS

All 991 wrappers are now driven by a heavier gearbox with wider gears and a larger tooth module, making them easier to drive. A new key way system also eliminates the possibility of a roll pin breaking or shearing.





## IN THIS RANGE:

991 LB

991 LBER

991 TBER

991 BC

991 BJS

991 BE

991 HIGH-SPEED

LB

LBER

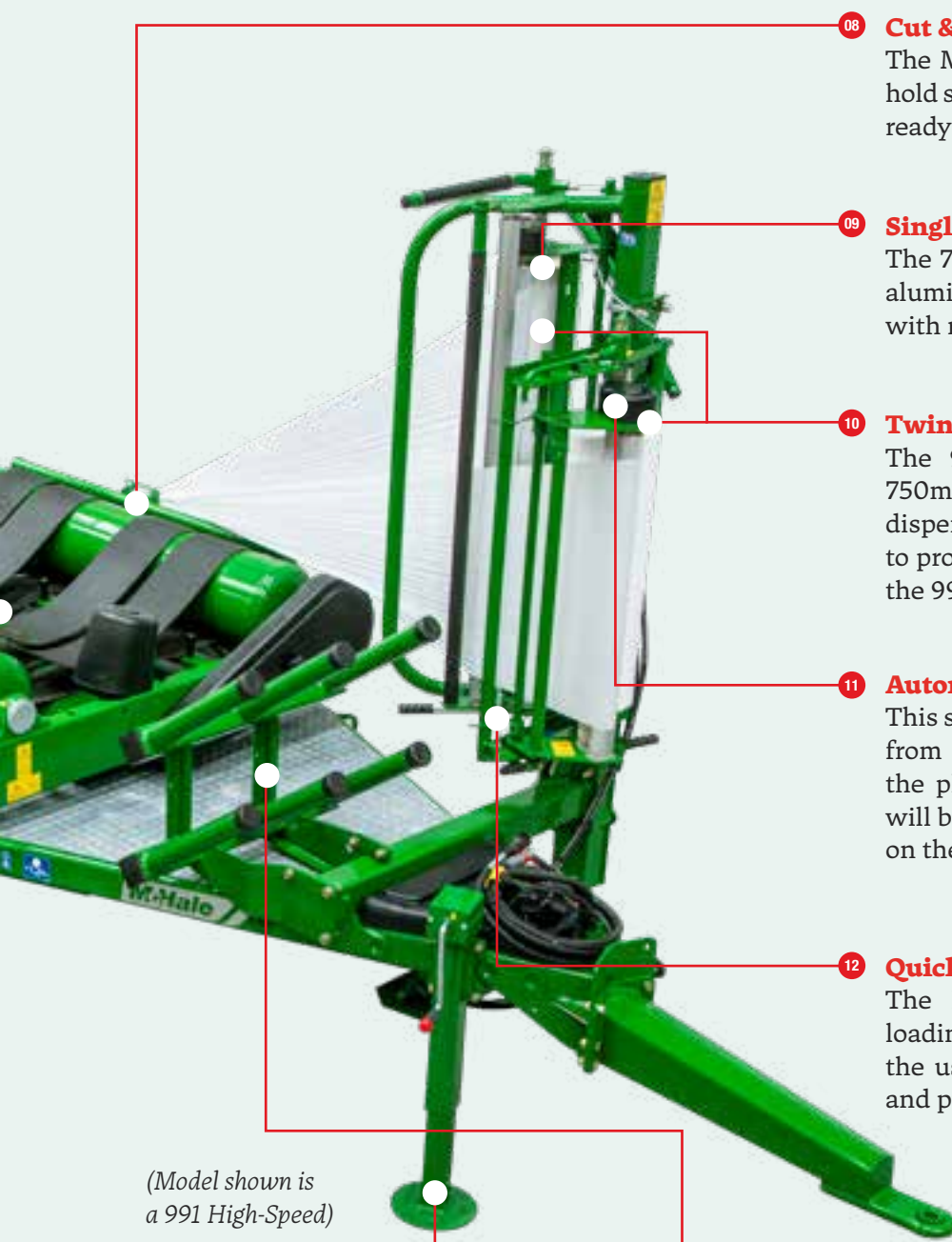
TBER

BC

BJS

BE

HS



(Model shown is a 991 High-Speed)

**08 Cut & Hold System** LB LBER TBER BC BJS BE HS

The McHale hydraulically-operated cut and hold system, cuts and holds the film in place, ready to wrap the next bale.

**09 Single Dispenser** LB LBER TBER BC BJS BE

The 750mm dispenser unit consists of two aluminium grip rollers, geared to each other with robust steel gears of different ratios.

**10 Twin Dispensers** HS

The 991 High-Speed is fitted with two 750mm aluminium dispensers. The two dispensers on the 991 High-Speed overlap to provide an increased output of 50% over the 991 BE.

**11 Automatic Film Break Sensors** LBER TBER BE HS

This sensor monitors the plastic as it passes from the dispenser onto the bale. Should the plastic break or run out, the operator will be notified with an out of film message on the control console.

**12 Quick Fit Dispensers** LB LBER TBER BC BJS BE HS

The lock and load system makes film loading convenient and easy by pushing up the used roll to lock the dispenser bobbin and pulling the cord to unlock it.

**13 Extra Film Storage with Easy Handling**

LB LBER TBER

**991 L range can carry 3 rolls of film:**  
1 roll (dispenser) + 2 rolls (film storage)

BC BJS BE

**991 B range can carry 7 rolls of film:**  
1 roll (dispenser) + 6 rolls (film storage)

HS

**991 High-Speed can carry 8 rolls of film:**  
2 rolls (dispensers) + 6 rolls (film storage)

**14 Jack Stand** BC BJS BE HS

A new heavy-duty side-handle jack stand has been fitted on all 991 B range & 991 High-Speed machines.



# 991 B RANGE STANDARD FEATURES



## 1. Ground Supported Damper System

The patented bale damper system gently lowers the bale to the ground while eliminating any stress on the chassis of the machine. When tipping a bale, the heavy-duty damper is also lifted to cradle it, while the second arm is lowered automatically to the ground. This allows the heaviest of bales to be gently lowered to the ground, eliminating any damage.



## 2. Lift Arm & Wrapping Table

The 991 BC and BJS lift arms are operated manually. On the 991 BE and High-Speed, the auto lift function places the bale on the wrapping table automatically.

The wrapping table has four heavy-duty belts, which ensure smooth and consistent bale rotation even when dealing with loose or asymmetric bales.



\*(Model shown is a 991 High-Speed)

## 3. Extra Film Storage with Easy Handling

**991 High-Speed can carry 8 rolls of film\*:** **HS**  
2 rolls (dispensers) + 6 rolls (film storage)

**991 B range can carry 7 rolls of film:** **BC BJS BE**  
1 roll (dispenser) + 6 rolls (film storage)

**991 L range can carry 3 rolls of film:** **LB LBER TBER**  
1 roll (dispenser) + 2 rolls (film storage)



## 4. Optional Side Tip

An optional side tip is available on all trailed machines to place bales on their ends after wrapping is complete. This helps by:

- *Tipping the bales onto where they have more plastic, thus reducing damage in stubby fields.*
- *Allowing round bales to hold their shape better.*
- *Stopping the bale from rolling when ejected on slopes.*

# 991 B & L RANGE STANDARD FEATURES



## 5. Cut & Hold System

At the end of the wrapping cycle, the hydraulically operated cut & hold system cuts and holds the film in position ready to wrap the next bale. Uniquely designed, this system works reliably and consistently in all weather conditions. The plastic is gathered to one point, cut and then pulled against the side of the bale so that tails are minimised.



## 6. Automatic Film Break Sensors LBER BE TBER HS

Automatic film break sensors monitor the plastic as it leaves the dispenser rollers. If plastic breaks or runs out, the machine will notify the operator via the control console. If needed, the 991 High-Speed automatically switches to single dispenser mode, where the machine compensates for the broken or empty roll and ensures the bale is wrapped correctly.



## 7. Easy Load Dispensers

The McHale lock and load system makes film loading quick and easy by locking the dispenser bobbin up when unloading and locking it back down by simply pulling the cable.

All machines are fitted with 750mm aluminium dispensers, which provide a 70% film stretch. Other film stretch options are available on request.



## 8. Shear Bolt Unit

A Shear Bolt protects the gearbox when wrapping poorly shaped bales. All machines are now driven by a heavier gearbox than previous models. The gears are wider in diameter and have a larger tooth module on them, making them easier to drive. This heavy-duty gearbox contains a new key way protection system, which replaces the old roll pin system.



# 991 L

## 991 L RANGE - LINKAGE ROUND BALE WRAPPER RANGE

**THE MCHALE 991 L** range of linkage round bale wrappers is the first choice for farmers and contractors who are interested in wrapping bales at the storage site.

The 991 L range offers the perfect blend of tried and tested technology with solid construction and reliable performance. There are three models in the 991 linkage round bale wrapper range;



The **991 LB** is a manually operated machine where four individual levers control all wrapping functions.

Powered by either a tractor or an independent power pack, the 991 LB control valve can either be mounted beside the dispenser post or just inside the tractor cab. The control unit measures the revolutions per minute and monitors the number of layers as they are being applied to the bale. The control unit enables the operator to change the number of film layers and store bale totals from different jobs.

The **991 LBER** is fully automatic and can be controlled via the control console.

The control console on the 991 LBER enables the operator to change the round bale wrapper settings and select the desired number of film layers. When set, one touch of the auto start button operates the complete cycle from start to finish. The wrapper applies the pre-set number of layers, then stops and tips the bale automatically.

The **991 TBER** is fully automatic and can be controlled via the control console.

The 991 TBER has a specifically adapted chassis which can be used for transportation and mounting of a hydraulic power pack. The 991 TBER can be transported by a small tractor or telehandler to and from the static wrapping site.

750mm aluminium dispenser that maintains a consistent film stretch, which maximises film usage

Quick Fit Dispenser

Hydraulically Operated  
Cut & Hold

A smooth wrapping seal is guaranteed as the machine delivers a 50% overlap

Wrapping table is constructed of four heavy-duty endless belts, which ensure smooth and consistent bale rotation

### Radio Remote Control Kit for Static Wrapping

With a radio remote control kit, an operator can load a bale and activate the automatic cycle remotely. While the bale is wrapping, the operator stacks the last wrapped bale and collects a netted bale to wrap next. The wrapped bale is automatically tipped and the netted bale is placed on the wrapping table to start the wrapping process again.



# 991 BC

## 991 BC - CABLE CONTROLLED TRAILED ROUND BALE WRAPPER



**THE MCHALE 991 BC round bale wrapper is the entry level machine in the 991 B range.** The McHale 991 BC uses four individual levers to control all wrapping functions. The cable-controlled levers on this round bale wrapper allow the operator to control:

- Lift Arm • Wrapping Table • Cut & Hold • Bale Tip

### WIZARD CONTROL SYSTEM

The balewrap monitor controls the number of layers of wrap being applied to the bale and keeps track of the number of bales wrapped. The 3.5m long cables feature an auto stop function which locks the rotation lever after 2 rotations and stops at the pre-set number of layer rotations.



4 Lever Control	750mm Film Dispenser	Hydraulically Operated Cut & Hold	Patented Ground Supported Damper
Film Roll Holders <i>Capacity to carry 7 rolls of film (6&amp;1)</i>	Bale Support Bobbins	3.5 Metre Cables <i>(Other lengths available)</i>	Shear Bolt Protection System
Auto Stop Function	Rotation lever locks in position after 2 rotations and stops at the pre-set number of layers		Quick Fit Film Dispensers



# 991 BJS

## 991 BJS - SERVO JOYSTICK CONTROLLED TRAILED ROUND BALE WRAPPER

**THE MCHALE 991 BJS** is a servo joystick machine which uses low pressure hydraulics to provide a smooth controlled transition between functions. This system is often favoured by high-end users as it allows full control over the functions of the machine.

Each wrapping function is controlled through a sequence of joystick movements. The servo joystick allows the operator to control the following functions:

Lift Arm • Wrapping Table • Cut & Hold • Bale Tip



Single Lever Servo Joystick Control

Hydraulically Operated Cut & Hold

750mm Film Dispenser

Patented Ground Supported Damper

Film Roll Holders  
Capacity to carry 7 rolls of film (6+1)

Bale Support Bobbins

Shear Bolt Protection System

Quick Fit Dispenser

### JOYSTICK CONTROL SYSTEM

The servo operated system on the 991 BJS uses low-pressure hydraulics, which provides a similar feel to the joystick used in telescopic loaders. On the 991 BJS the wizard control console allows the operator to select the following:

1. Set the number of layers to be applied
2. Set and monitor the revolutions per minute of the bale wrapping table
3. Store two job totals



# 991 BE

## 991 BE - FULLY AUTOMATIC ELECTRONIC TRAILED ROUND BALE WRAPPER

**THE MCHALE 991 BE** is the top of the range fully automatic, electronic, single dispenser machine in the 991 B Range.

The machine features an Auto Load function which automatically loads the bale on the wrapping table.

The fully automated Expert electronic control console allows the operator to select from 3 cycle options:

- A. Automatic Wrapping Cycle (Manual load & tip)
- B. Automatic Load and Wrap Cycle (Manual tip)
- C. Automatic Load – Wrap and Tip Cycle



Expert Control Console (Fully automatic cycle)	Auto Load Lift Arm Function	Film Break Sensor	750mm Quick Fit Film Dispenser
Automatic Cut & Hold System	McHale Patented Ground Supported Damper	Film Roll Holders Capacity to carry 7 rolls of film (6 & 1)	Ability to static wrap when using the optional remote control

### EXPERT CONTROL CONSOLE

The bale is loaded using the auto lift function. When the operator drives into the bale, the lift arm is activated and the bale is automatically lifted onto the wrapping table and wrapped.

This operation can also be done manually by the operator with the simple press of a button. Once the bale is loaded, the 991 BE bale wrapper will wrap the bale. Tipping can either be automatic, or in more testing conditions, can be switched to manual so the operator has full control.





# 991 | HIGH SPEED



## 991 HIGH-SPEED – TWIN DISPENSER ROUND BALE WRAPPER

**THE MCHALE 991 HIGH-SPEED** sets the pace for efficient and effective round bale wrapping by reducing wrapping time with its twin dispensers, hydraulically operated cut and hold system and its Patented Ground Supported Damper System.

The 991 High-Speed delivers tightly wrapped bales which seal and preserve the crop, with all its natural juices, ensuring increased nutritional value.

Expert Control Console (Fully automatic cycle)	Auto Load Lift Arm Function	Film Break Sensors	750mm Twin Film Dispensers
Automatic Cut & Hold System	Patented Ground Supported Damper	Film Roll Holders - Capacity to carry 8 rolls of film (6+2)	Quick Fit Dispenser Film Change

# STANDARD FEATURES



## TWIN DISPENSERS

Twin 750mm dispensers equipped with two aluminium rollers are paired to each other with robust steel gears of different ratios to maintain a consistent stretch and maximise film usage.

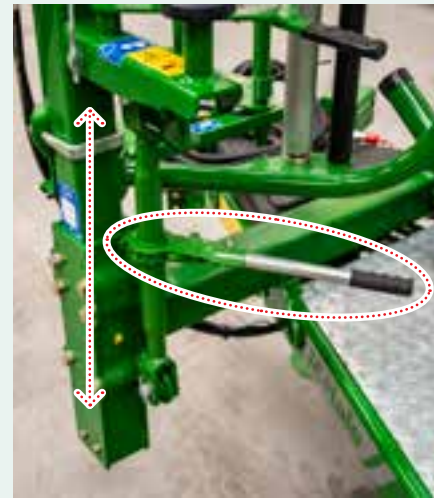
The twin dispensers are stepped to allow the two rolls of plastic to create an overlap and provide 50% more output compared with a McHale 991 BE.



## AUTOMATIC FILM BREAK SENSORS

Two automatic film break sensors monitor the plastic as it wraps the bale. If one roll breaks or runs out, the operator is notified on screen and the machine switches to single dispenser mode. It will automatically compensate to ensure bales are wrapped correctly.

If both rolls break or finish at the same time, the cycle will resume when the rolls are reset.



## WRAPPING WITH ONE ROLL OF FILM

The dispenser post height can be manually adjusted to maximum position using the height adjustment handle.

On the dispenser closest to the tractor, the plastic will be applied to the centre of the bale, ensuring the correct overlap. Select the "X1" button on the control console to operate it as a single dispenser machine.

## ELECTRONIC CONTROLS

This user-friendly control console provides access to all the functions of the machine without ever having to leave the comfort of the tractor seat.

**From the control console, an operator can select;**

- Auto bale load function.
- Auto bale tip function.
- The number of film layers to be applied to the bale.
- Single roll bale wrapping mode.

While the 991 High-Speed is fully automatic, the operator can select manual options to maximise control depending on their ground conditions.



Radio Remote Control  
(Optional for Static Wrapping)



\*50% more output compared with a McHale 991 BE.





## ORBITAL – HIGH-SPEED ROUND BALE WRAPPER

**THE MCHALE ORBITAL BALE WRAPPER** is a high-speed round bale wrapper. The McHale Orbital harnesses the proven vertical wrapping ring technology used

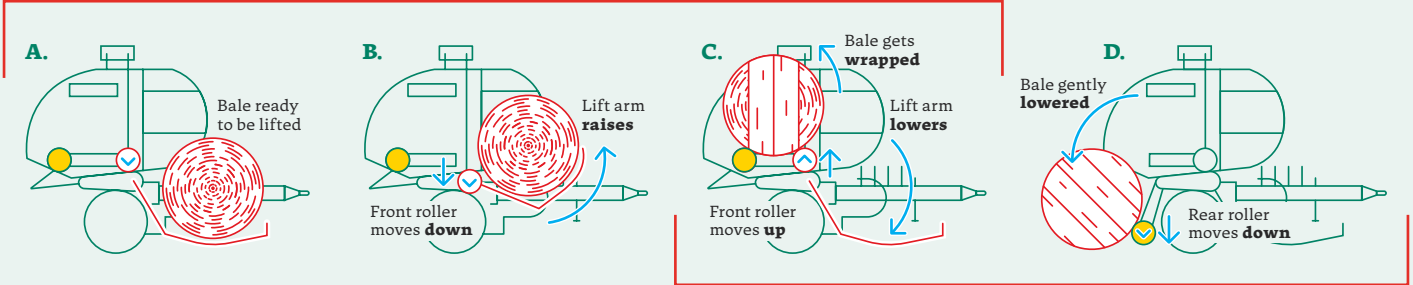
in the McHale Fusion to deliver a high-output, low maintenance bale wrapper capable of keeping up with multiple balers.



# UNIQUE MCHALE PATENTS

The McHale Orbital bale wrapper is a unique machine which uses two McHale patents:

## 1. McHale Patented High-Speed Transfer System



## 2. McHale Patented Tip Roller

### 1 McHale Patented High-Speed Transfer System

As the lift arm moves the bale onto the wrapping platform, the front roller pivots down to reduce the height the bale has to travel to the wrapping position. This design allows the bale to transition in a smooth and quick manner that is stress-free on the machine.

The lift arm also has the ability to carry a bale while another is being wrapped, delivering higher output.



### 2 McHale Patented Tip Roller

Through the use of the patented tip roller, the McHale Orbital bale wrapper can wrap bales from 1.1m up to 1.45m (3'7"–4'9") with ease. The patented tip roller adjusts its height in line with bale size to ensure that the wrapping ring always applies the plastic to the centre of the bale, regardless of the bale diameter. This ensures a correct and even overlap is always achieved.



# ORBITAL

## TRAILED

THE MCHALE ORBITAL is a high-speed round bale wrapper which delivers an even and consistent overlap and achieves optimum levels of fodder preservation and quality.

### 01 High-Speed Vertical Wrapping Ring

The high-speed vertical wrapping ring can apply four layers of film to a 1.25m (4') bale in approximately 18 seconds or six layers of film in 24 seconds.

### 02 Film Break Sensors

The automatic film break sensors monitor the film as it wraps and notifies the operator if a roll breaks or runs out.

### 03 Patented Tip Roller

The McHale Orbital wraps bales from 1.1m–1.45m (3'7"–4'9") by adjusting the tip roller's height to ensure the film is always applied to the centre of the bale and 50% film overlap is achieved.

### 04 Lights

The McHale Orbital comes fitted with LED lights. A work light is also positioned on the machine to enhance visibility when working late at night.

### 05 Wrapping Rollers

The wrapping table is constructed of two heavy-duty rollers, which ensure smooth and consistent bale rotation with all bale types.

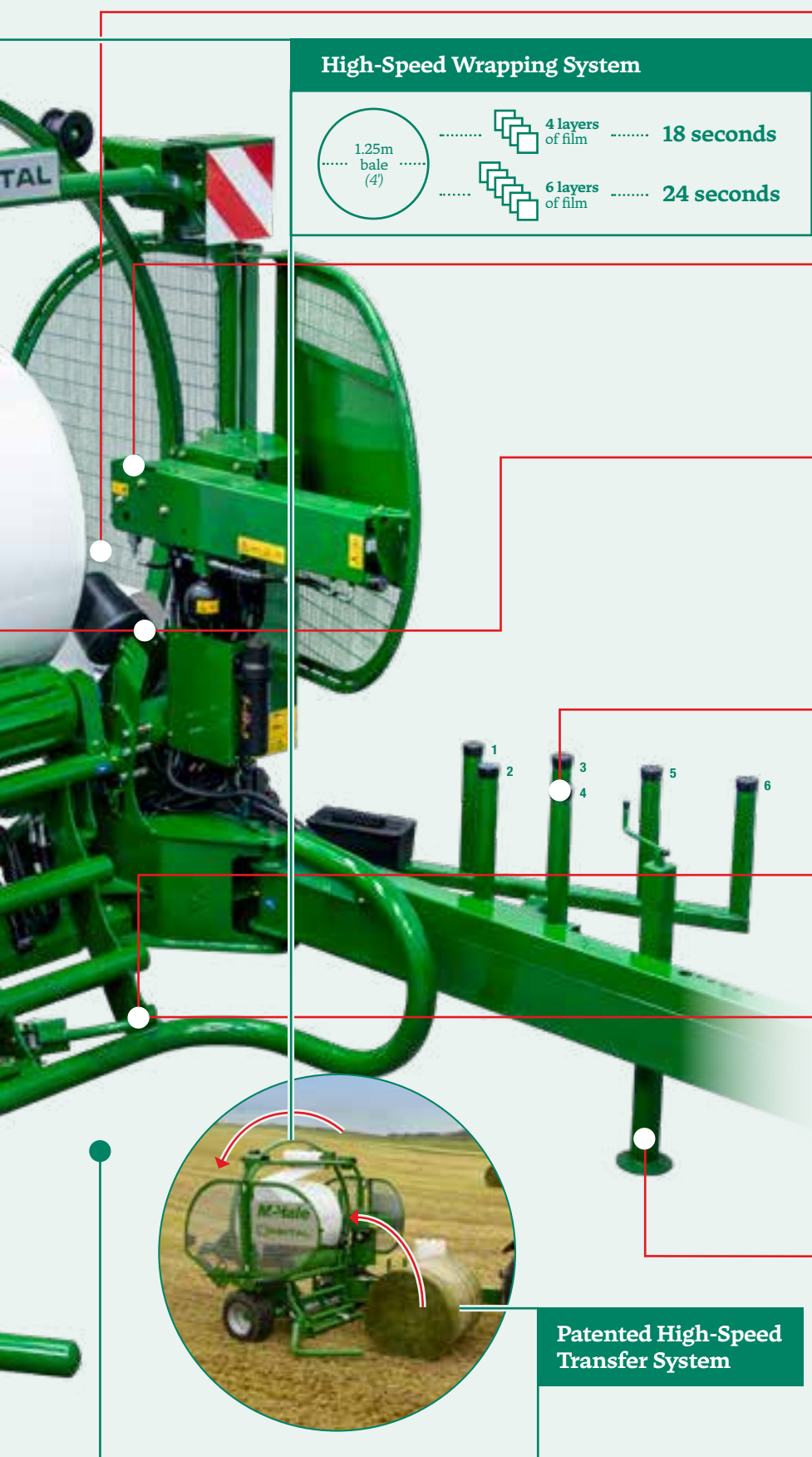
### 06 Tyres & Heavy-Duty Axle

The 380/55/17 tyres on the heavy-duty axle provides greater ground clearance and the 6-stud axle can stand up to the most testing ground conditions.

### 07 Patented High-Speed Transfer System

As the lift arm moves the bale towards the wrapping ring, the wrapping roller closest to the tractor moves out of the way, reducing the height the bale has to travel to get to the wrapper.





**High-Speed Wrapping System**

1.25m bale (4')	4 layers of film	18 seconds
	6 layers of film	24 seconds

**08 Easy Film Loading**

Both dispensers are easily loaded from the left side of the machine. When the first roll is loaded, an index button rotates the second dispenser around to the same location on the machine.

**09 Cut & Hold System**

The hydraulically operated cut and hold system, cuts and holds the film in position, ready to wrap the next bale.

**10 Twin Dispensers**

The vertical wrapping ring has two 750mm dispensers, which take approximately 18 seconds to apply 4 layers of film and 24 seconds to apply six layers of film to a 1.25m (4') bale.

**11 Extra Film Storage**

The McHale Orbital can carry 8 rolls of film: 2 rolls in the dispensers & 6 spare rolls in film storage.

**12 Auto Start Lift Function**

The auto start paddle, located on the lift arm, activates the loading process once the paddle is engaged and triggers the sensor.

**13 Heavy-Duty Lift Arm**

The heavy-duty lift arm also has the ability to carry a bale while another bale is being wrapped, delivering higher output.

**14 Jack Stand**

A new jack stand has been fitted to allow for the attaching and detaching of the wrapper to take place easily and safely.



**Patented High-Speed Transfer System**



# VERTICAL WRAPPING SYSTEM

## High-Speed Wrapping System

Once the bale is loaded onto the bale wrapper, the high-speed vertical wrapping ring can apply four layers of film to a 1.25m (4') bale in approximately 18 seconds or six layers of film in under 25 seconds.

The low-maintenance design, with consistent distance between the dispensers and the bale ensure an even overlap and reduces the likelihood of film breakages.

### WRAPPING RING FEATURES

- Fast Bale Wrapping
- Two 750mm Dispensers
- Film Break Sensors
- Easy Film Loading
- Reliable Cut and Hold



### VERTICAL WRAPPING RING



### RELIABLE CUT AND HOLDS



### EASY FILM LOADING



## Electronic Controls

The McHale Orbital High-Speed wrapper is a fully automatic machine.

The Expert Plus control console provides clear indicators of machine performance on its large graphic display and with the load sensing valve, makes the high-speed wrapping operation fully automatic.

From the control console the operator can adjust the number of wrap layers, bale diameter and select manual or automatic bale tip. The control console features film break sensing and can also record a number of bale totals for different jobs.



STANDARD SPECIFICATION	
Fully Automatic Operation	Patented High-Speed Bale Loading
High-Speed Vertical Wrapping Ring	Wrap Bales from 1.1m – 1.45m (3'7" to 4'9")
Proven and Reliable Cut & Hold System	Gentle Bale Tip after Wrapping
Film Break Sensors	Facility to Wrap with One Roll
Easy Film Loading	Expert Plus Control Console

### Bale Tip/ Side Tip (Optional)



When tipping off the bale, the rear wrapping roller moves downwards to gently place the tightly wrapped bale on the ground.

With the optional side tip, the bale can be rotated through 90° and placed on its end, thereby reducing stalk damage from crops such as Alfalfa.



# TECHNICAL TABLE

# SINGLE DISPENSER WRAPPERS

	991 LB	991 LBER	991 TBER	991 BC
<b>DIMENSIONS &amp; WEIGHT</b>				
Transport Length	2.8 m (9'2")	2.8 m (9'2")	4.5 m (14'9")	5.7 m (18'8")
Transport Width	1.65 m (5'5")	1.65 m (5'5")	2 m (6'7")	2.45 m (8')
Transport Height	1.94 m (6'4")	1.94 m (6'4")	2.05 m (6'9")	2.46 m (8'1")
Height to Top of Rollers	0.83 m (2'9")	0.83 m (2'9")	1.01 m (3'4")	1.25 m (4'1")
Weight (unladen)	800 kg (1764 lbs)	800 kg (1764 lbs)	1,090 kg (2403 lbs)	1870 kg (4123 lbs)
<b>WRAPPING</b>				
Bale Sizes	1–1.52 m (3'3"–5')	1–1.52 m (3'3"–5')	1–1.52 m (3'3"–5')	1–1.52 m (3'3"–5')
Aluminium Dispensers	1 x 750 mm (Optional 500 mm Kit)	1 x 750 mm (Optional 500 mm Kit)	1 x 750 mm (Optional 500 mm Kit)	1 x 750 mm (Optional 500 mm Kit)
Film Stretch	70% Standard (55% Optional)	70% Standard (55% Optional)	70% Standard (55% Optional)	70% Standard (55% Optional)
Wrapping Speed (up to)	30 rotations/min	30 rotations/min	30 rotations/min	30 rotations/min
Wrapping System	Turntable	Turntable	Turntable	Turntable
Protection Mechanism	Shear Bolt	Shear Bolt	Shear Bolt	Shear Bolt
Lift Capacity @ 170 bar	N/A	N/A	N/A	1100 kg (2425 lbs)
<b>EQUIPMENT ON EACH MODEL</b>				
Driver Control	3 Lever Cable Control (with Wizard Control)	Expert Control Console	Expert Control Console	4 Lever Cable Control (with Wizard Control)
Operation	Manual Only	Automatic & Manual	Automatic & Manual	Manual Only
Radio Remote Control	N/A	Standard	Standard	N/A
Film Roll Capacity	X 3 (1+2)	X 3 (1+2)	X 3 (1+2)	X 7 (1+6)
Cut & Hold	Yes	Yes	Yes	Yes
Bale Wrap Monitor	Yes	Yes	Yes	Yes
<b>OTHER</b>				
Road Lights	N/A	N/A	Yes	Yes
Greasing Points	11	11	11	19
Wheel Dimensions	N/A	N/A	20.5/8-10	340/55-16
Axle	N/A	N/A	5 Stud	6 Stud
<b>TRACTOR</b>				
Attachment to Tractor	3 Point Linkage	3 Point Linkage	Pin Hitch	Pin Hitch
Min. Hydraulic Requirements	20 l/min @ 180 bar	20 l/min @ 180 bar	20 l/min @ 180 bar	22 l/min @ 170 bar
Hydraulic Connections	2 x 1/2" QR's Open or Closed Centre	2 x 1/2" QR's Open or Closed Centre	2 x 1/2" QR's Open or Closed Centre	2 x 1/2" QR's Open or Closed Centre
Electrical Requirements	12v, 7A supply	12v Euro-plug, 20A or Direct from Battery	12v Euro-plug, 20A or Direct from Battery	12v Euro-plug, 7A or Direct from Battery
Minimum hp Requirement	45 kW / 60 hp	45 kW / 60 hp	35 kW / 47 hp	35 kW / 47 hp

● Single dispenser key feature

# TWIN DISPENSER WRAPPERS

## 991 BJS

## 991 BE

## 991 HIGH SPEED



5.7 m (18'8")	5.7 m (18'8")	5.7 m (18'8")	4.35 m (14'3")
2.45 m (8')	2.45 m (8')	2.45 m (8'1")	2.74 m (9')*
2.46 m (8'1")	2.46 m (8'1")	2.46 m (8'1")	3.0 m (9'3")
1.25 m (4'1")	1.25 m (4'1")	1.25 m (4'1")	N/A
1870 kg (4123 lbs)	1870 kg (4123 lbs)	1900 kg (4189 lbs)	2400 kg (5391 lbs)
1–1.52 m (3'3"–5')	1–1.52 m (3'3"–5')	1–1.52 m (3'3"–5')	1.1–1.48 m (3'7"–4'9")
1 x 750 mm (Optional 500 mm Kit)	1 x 750 mm (Optional 500 mm Kit)	<b>2 x 750 mm</b>	<b>2 x 750 mm</b>
70% Standard (55% Optional)	70% Standard (55% Optional)	70% Standard (55% Optional)	70% Standard (55% Optional)
30 rotations/min	30 rotations/min	30 rotations/min	<b>40 rotations/min</b>
Turntable	Turntable	Turntable	<b>Wrapping Ring (Fusion System)</b>
Shear Bolt	Shear Bolt	Shear Bolt	Relief Valve
1100 kg (2425 lbs)	1100 kg (2425 lbs)	1100 kg (2425 lbs)	1200 kg (2646 lbs)
Single lever joy stick (with Wizard Control)	<b>Expert Control Console</b>	<b>Expert Control Console</b>	<b>Expert Plus Control Console</b>
Manual Only	<b>Automatic &amp; Manual</b>	<b>Automatic &amp; Manual</b>	<b>Automatic &amp; Manual</b>
N/A	Optional	Optional	Optional
X 7 (1+6)	X 7 (1+6)	X 8 (2+6)	X 8 (2+6)
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
19	19	20	22
340/55-16	340/55-16	340/55-16	Standard: 380/55-17 Optional: 480/45-17
6 Stud	6 Stud	6 Stud	6 Stud
Pin Hitch	Pin Hitch	Pin Hitch	Pin Hitch
22 l/min @ 170 bar	22 l/min @ 170 bar	22 l/min @ 170 bar	35 l/min @ 170 bar
2 x 1/2" QR's Open or Closed Centre	2 x 1/2" QR's Open or Closed Centre	2 x 1/2" QR's Open or Closed Centre	2 x 1/2" QR's Open or Closed Centre or Load Sensing
12v Euro-plug, 7A or Direct from Battery	12v Euro-plug, 7A or Direct from Battery	12v Euro-plug, 7A or Direct from Battery	12v Euro-plug, 10A or Direct from Battery
35 kW / 47 hp	35 kW / 47 hp	35 kW / 47 hp	45 kW / 60 hp

Twin dispenser key feature

Unique feature to Orbital

\* Width will depend on tyre selection





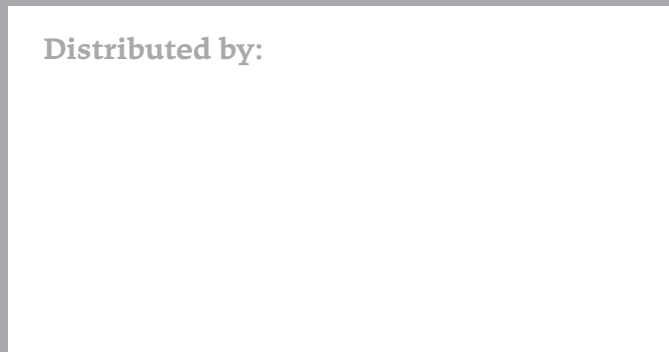
# M-Hale

Ballinrobe,  
Co. Mayo,  
Ireland

T. 353 (0) 94 95 20300  
F. 353 (0) 94 95 20356  
E. [sales@mchale.net](mailto:sales@mchale.net)

## WWW.MCHALE.NET

Distributed by:



**DISCLAIMER:** This literature is designed for worldwide circulation. Due to a continuing policy of product improvement, we reserve the right to alter specifications and constructions without notice. As machines are exported to many different countries, general information, pictures and descriptions are provided; these should be taken as approximate and may include optional equipment that is not part of the standard specification. Please consult your local dealer or distributor for further information.