

# McHale

## F5 Baler Range



*The Professional Choice*

# *F5 Baler Range*

*designed with the demands of today's farmer and contractor in mind...*

Built to last and developed on some of the world's most rugged terrain, the McHale product range is known throughout the world for durability, reliability, innovation and value for money.

As with all McHale machines, the F5 fixed chamber baler range has been designed with the demands of today's farmer and contractor in mind.

This common sense approach to design ensures that machine operation is kept simple and user friendly.

Features like progressive greasing and oiling and the drop floor unblocking system, when combined with high specification components, ensures long life, reliability and a machine that is rugged enough to handle the toughest of crops and ground conditions.





# Our Specification

## 1. Split Drive Gear Box

The left hand side of the gearbox drives the rollers in the bale chamber, while the pick up and chopper unit are driven from the right hand side of the machine. This system ensures direct short transfer paths and optimal power distribution.

## 2. Pick Up

The 2 metre galvanised pick up lifts even the shortest of crop. The pick up is fitted with lateral feed augers that smoothly guide the crop into the chopping unit.

The pick up cam bearings are double raced to stand up to the most testing of conditions.

## 3. Pick Up Cam Inspection Port

The cam is fitted with a side inspection port that allows the operator to quickly check and change the cam bearings, if necessary.

## 4. Rotor Design

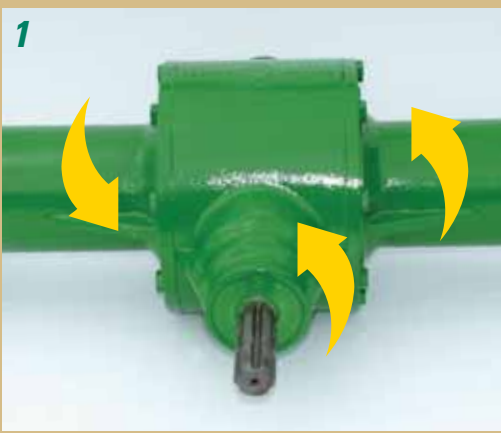
As crop enters the spiral rotor, pairs of rotating tines feed the crop through the chopping unit. The double tines on the rotor ensure high output, while the spiral layout reduces load peaks as the machine works in heavy swarths. The rotor design encourages a uniform crop flow, which reduces the risk of blockages, thus maximising output.

## 5. Chopper Unit

The knives in the chopping unit of the F550 and F560 can be engaged and disengaged from the tractor cab. When engaged, the knives extend into the spine of the rotor which ensures a consistent cut quality. Knives have hydraulic protection ensuring that if a foreign object enters the chopping unit, the knives can drop out of the way.

The knives in the chopping unit are made from hardened tool steel, which ensures long life and maximum productivity, through reducing the downtime associated with knife sharpening.

1



2



3



4



5





# 3 Simple Steps to Removing a Blockage

As baling conditions are not always ideal, uneven swarths can occur which can lead to blockages. The McHale F5 Baler Range is fitted with a drop floor unblocking system, which means blockages can be fed through in three simple steps.

## 1. Drop the Floor



Should a blockage occur the sound of the slip clutch alerts the operator who can hydraulically lower the floor from the tractor cab.

## 2. Re-engage the PTO



This widens the feed channel and on re-engaging the PTO the blockage can be fed through.

## 3. Reset the Floor



The floor can then be reset and baling can resume.





6



7



8

## 6. Bale Chamber

At the heart of this machine is the 18 roller high density bale chamber. The rollers are formed from high-grade tubular steel and have heavy duty 50mm forged shafts. This combination gives maximum strength and ensures a long working life.

## 7. Roller Design & Sealing

The roller ends are fitted with high performance self cleaning seals. The seals prevent the grease around the bearings from becoming contaminated by crop.

## 8. Chamber Bearings & Chains

The rollers are fitted with 50mm bearings on the drive and non-drive side. Drive side rollers, which experience the most load are fitted with double raced bearings.

Heavy-duty drive chains and sprockets are fitted.

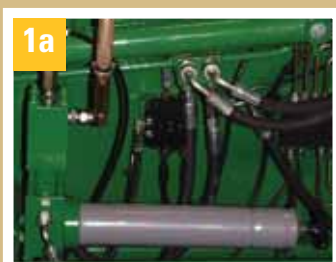
- Drive side chains are 1-1/4" (20B)
- Rotor chain is 1" duplex (16B-2)
- Pick up chains are 3/4" (60H)

## Progressive Greasing & Oiling

The bearings are supported by a **PROGRESSIVE GREASING SYSTEM** which ensures a **MEASURED** amount of **PRESSURISED** grease is forced into the bearings.

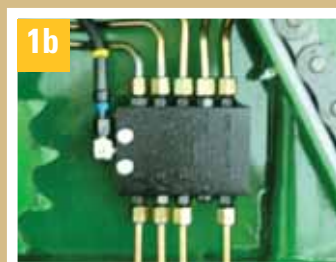
1. Through this system, pressurised grease is distributed to the;

- Bale Chamber Drive Side (18 Bearings)
- Bale Chamber Non Drive Side (18 Bearings)
- Rotor Bearings (Drive and Non Drive Side)
- Pick Up Drive Gears



1a

Grease line



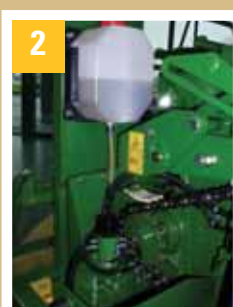
1b



1c



1c



2

Oil lines



2. The **CONTINUOUS OILING SYSTEM** on the machine is driven off the gearbox and it ensures the following chains, all receive adequate amounts of oil;

- Chamber Drive Side Chains
- Rotor Drive Chain
- Pick Up Drive Chains
- Pick Up Cam Track



# Net Stretch System

1



After the bale full alarm sounds on the control box, the net tension bars pivot forward allowing the net to feed into the bale chamber unrestricted.

2



As the net comes into contact with the bale the net tension bars pivot back, applying maximum pressure. This ensures efficient net usage and that a tight layer of net is applied to the bale.

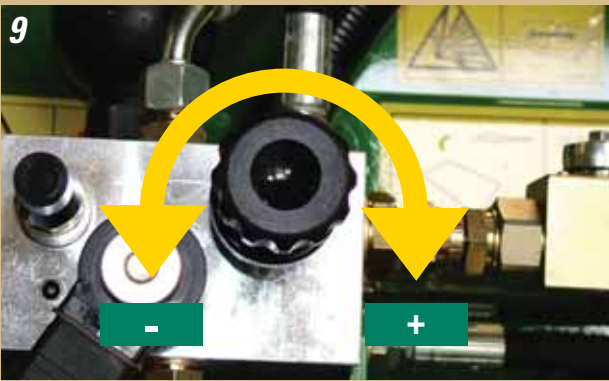
3



The operator can easily adjust the amount of net being applied by simply moving the adjustment handle on the netter.



9



### **9. F550 Density Control**

On the F550, the chamber pre charge pressure can be easily adjusted on the density control valve. By adjusting the handle in a clockwise direction density can be increased, while rotating the handle in the opposite direction reduces density.

10



### **10. Pressure Gauge**

The top pressure gauge on the front of the machine shows the pre-charge pressure on the bale chamber. The gauge also indicates to the operator when the bale in the chamber is almost full.

The bottom pressure gauge on the machine shows the knife pressure.

11



### **11. Net Loading & Storage**

A spare roll of net wrap can be conveniently stored and secured on the front of the machine. When needed, the spare roll can be easily loaded into the net stretch system.

12



### **12. Bale Kicker & Netted Bale**

When the finished bale is released from the chamber, the heavy duty bale kicker ensures a clean separation between the machine and the netted bale.

As the net is applied tightly to the bale, it ensures that bales hold their shape well, which makes bale wrapping easier, resulting in better quality forage.

13



### **13. F550 Control Box**

The F550 cab-mounted control box is the operator's link to this efficient machine. Its features include;

- Automatic and Manual Net Cycles
- Lube Check Alarm
- Drop Floor Activation
- Bale Count
- Knife Activation



# F560 - Offering You More!

The McHale F560 is fitted with a servo operated load sensing control valve, which make the baling process fully automatic.

Once the bale is formed, net is automatically applied; the tailgate then automatically opens releasing the bale, the tailgate then automatically closes and pressurises.

In more testing ground conditions the tailgate operation can be adjusted in the control box so the netted bale will be held in the chamber until the operator presses a button on the control box. When the button is pressed the tailgate will open to eject

the bale and then it will automatically close and pressurise. This allows the operator to drop the bale in a location where it will not roll away.

The machine comes standard with all the high specification features of the F550 but also benefits from;

- An Expert Plus Control Console with a Large Graphic Display
- A High Capacity 23 Knife Rotor
- Automatic Tailgate Operation
- Drop Floor Unblocking Cycle
- Bale Kicker Indicator





# F560 *Expert Plus Control Console*



The F560 is controlled with an Expert Plus Control Console, which features a large graphic display, this allows the operator to monitor the baling process graphically from the control console. It also features;

- In Cab Net Adjustment
- In Cab Density Adjustment
- Knife Display
- Door Position Display
- Drop Floor Control
- Bale Kicker Sensor
- Lube Alarm
- Volume Control



## **1. High Capacity Rotor**

The F560 is equipped with a high capacity 23 knife chopper unit and rotor. The rotor design maximises output by encouraging a uniform crop flow, which reduces the risk of blockages.



## **2. Automatic Tailgate Operation**

Once the bale is netted in the chamber. The tailgate of the baler automatically opens, allowing the high density bale to be ejected. Once the bale has passed over the bale kicker the tailgate automatically closes, allowing the operator to continue baling.



## **3. Bale Kicker Sensor**

The F560 has a sensor on the bale kicker, which ensures that the bale has been ejected from the chamber before the tailgate closes.

# F5 - Baler Comparisons

<i>Specification</i>	<i>Machine</i>	<i>F550</i>	<i>F560</i>
<b>Operation</b>		Semi Automatic	Fully Automatic
<b>Control Box</b>		Wizard Box	Expert Plus
<b>Control Box Display</b>		4 Digit Interface	Large Graphic Display
<b>Net Adjustment</b>		Manual on Baler	In Cab
<b>Density Adjustment</b>		Manual on Baler Valve	In Cab
<b>Rotor</b>		15 Knife Baler Rotor	High Capacity Fusion Rotor
<b>Number of Knives</b>		15	23
<b>Theoretical Chop Length</b>		65mm	50mm
<b>Standard Tyres</b>		500/50-17	500/50-22.5





# Technical Specifications

Dimensions & Weight	F550	F560	
Length	4.05m	4.05m	
Width	2.55/2.58m*	2.58m	
Height	2.45m	2.45m	
Weight	3550kg	3635kg	
<b>Pick Up</b>			
Working width	2000mm	2000mm	
Tine Bars	4	4	
Tine Spacing	70mm	70mm	
Short Crop Guard	Standard	Standard	
Crop Roller	Optional	Optional	
Pick Up Lift	Hydraulic	Hydraulic	
Pick Up Guide Wheels (pneumatic)	Standard	Standard	
<b>Chopper Unit</b>			
Max No. of Knives	15	23	
Theoretical Chop Length	65mm	50mm	
Knife Protection	Hydraulic	Hydraulic	
Knife Deactivation	Hydraulic from Cab	Hydraulic from Cab	
Unblocking System	Drop Floor	Drop Floor	
<b>Bale Chamber</b>			
Diameter (m)	1.25	1.25	
Width (m)	1.23	1.23	
Bale Chamber feed	Baler Rotor	Fusion Rotor	
Number of rollers	18	18	
Bearings	50mm**	50mm**	
Greasing	Progressive (Standard)	Progressive (Standard)	
<b>Net Wrap</b>			
Control Net System	Manual or Automatic	Manual or Automatic	
Net Roll Capacity	Pivot Stretch	Pivot Stretch	
Net Adjustment	1+1 Storage	1+1 Storage	
	Manual on Baler	In Cab	
<b>Drives</b>			
Gearbox	Split Drive	Split Drive	
Main Drive Protection	Cam Clutch	Cam Clutch	
Pick Up Protection	Slip Clutch	Slip Clutch	
Chain Lubrication	Continuous	Continuous	
<b>Control</b>			
Control System	Wizard	Expert Plus	
Operation	Semi Automatic	Automatic	
Density Adjustment	On Baler Valve	In Cab	
<b>Other</b>			
Axle	8 Stud	8 Stud	
Tyres Standard	500/50-17	500/50-22.5	
Tyres Optional	500/50-22.5		
Bale Kicker Indicator	Not Available	Standard	
Road Lights	Standard	Standard	
<b>Tractor</b>			
Minimum Power Requirement	60kW (80hp)	60kW (80hp)	
Hydraulics	2 double acting spools	2 double acting spools	
	1 free flow return	1 free flow return	

\*Width will depend on tyre selection \*\*Bearings are double raced on the main load points



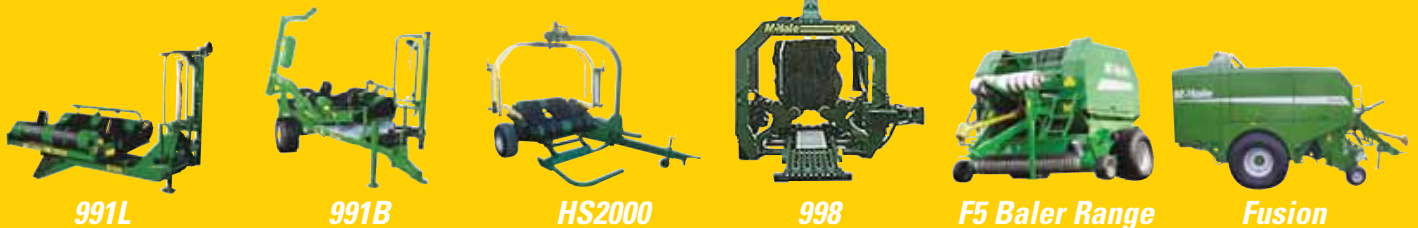
McHale has evolved from a farm machinery retail outlet, which is still in existence today. This background has provided an excellent foundation for the design and manufacture of farm machinery, due to direct contact with the end user.

Manufacturing takes place in a purpose built facility, which utilises the latest in laser and robotics manufacturing technology and operates to ISO 9001/2000 accreditation.

All research and development is conducted in-house using leading edge technologies. Machines go through rigorous testing during the product development process and machine performance is constantly monitored.

As a result, this ensures that product of the highest quality, specification and design are delivered to you. Which explains why a McHale product is truly "an investment in the future".

## F5 Baler Range



991L

991B

HS2000

998

F5 Baler Range

Fusion

[www.mchale.net](http://www.mchale.net)

# McHale

Castlebar Road, Ballinrobe,  
Co. Mayo, Ireland.

Tel: 353 94 95 20300

Fax: 353 94 95 20356

Email: [sales@mchale.net](mailto:sales@mchale.net)

Web: [www.mchale.net](http://www.mchale.net)



SUPPLIED BY: