

**MacDon**<sup>®</sup> *The Harvesting Specialists.*

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**Full Line**

**Full Line**

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## Harvesting performance

MacDon is a world leader in technology, innovation, and manufacturing of high-performance harvesting equipment. Our products are distributed and supported worldwide from offices in Canada, the United States, Australia, Russia, Brazil and Europe. Our relentless pursuit for improvement is driven by the desire to make harvesting easier and more productive for farmers.

We work directly with producers and custom harvesters like you to design, develop, and test our machines in the most demanding field conditions around the world. That's our way of ensuring that your MacDon-built equipment will deliver worry-free harvesting performance. We are proud of our worldwide reputation of excellence and take our position as the Harvesting Specialists seriously because at the end of the day, our equipment is harvesting the crops that help producers feed the world.



**MacDon**® *The Harvesting Specialists.*

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# The History of Harvesting Performance

1949

MacDon begins as Killbery Industries Ltd., specializing in mounted sprayers and other farm implements.



Killbery produces one of North America's first self-propelled windrowers under the Grain-Saver brand name.

1951

1971

Joe MacDonald purchased Killbery Industries Ltd., the name was changed to MacDon Industries Ltd. in 1975.



MacDon establishes a US Dealer Network.

1986

1988

The MacDon Harvest Header is introduced to the market, this is the first MacDon Draper for combines.



On November 1st, MacDon celebrates its 100,000<sup>th</sup> machine off the assembly line, a MacDon 9300 self-propelled windrower tractor  
MacDon, Inc. opens in Kansas City, Missouri, U.S.A.

1996



MacDon Australia Pty. Ltd. opens in Melbourne, Australia.

1997

2003

MacDon introduces the FlexDraper® to the market. It is the first flexible draper header for combines.



LLC MacDon Russia Ltd. opens in Moscow, Russia.

2008

2012

MacDon acquires Westward Parts Services Ltd.



Opening of MacDon Brasil Agribusiness Ltda. Office in Curitiba, Paraná, Brazil.

2014

2015

MacDon Enterprises, Inc. opens in Madison , Wisconsin, U.S.A.  
Parts Distribution Centre opens in Winnipeg, Manitoba.  
Opening of MacDon Australia Parts Distribution Centre.



MacDon Europe GmbH established in Frankfurt, Germany.

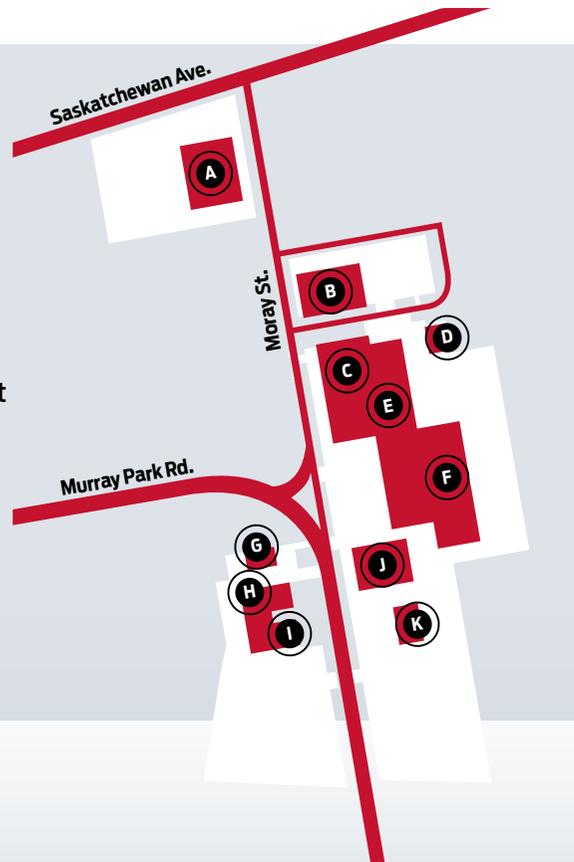
2017

## Built from the ground up

Every MacDon machine gets designed and manufactured at our headquarters in Winnipeg Manitoba, Canada. This operation includes facilities for R&D, Engineering, Quality Control, Parts, Manufacturing, and Supporting Departments. MacDon combines nearly 70 years of experience with the latest manufacturing techniques and technology, including: CNC Laser Cutters, CNC Lathes, Robotics, and one of the largest Powder Coating facilities in North America. It is from this location that we supply equipment to dealers and customers around the world.

### MacDon Winnipeg, Canada

- A. Parts Distribution Centre
- B. Warehouse
- C. Head Office
- D. Product Support
- E. 680 Manufacturing/Assembly Plant
- F. Powder Coat Paint Facility
- G. Accounting Offices
- H. Credit & Marketing Offices
- I. 590 Assembly Plant
- J. Engineering R&D
- K. Shipping (Logistics) Centre



### Powder Coating





**Fabrication**



**Welding**



**Assembly**



## Innovation in the field

Our goal is to build reliable machines that make harvesting easier and more productive. That's why we work directly with producers and custom harvesters in the toughest real-world conditions. It's our relationship with these folks that guide MacDon to pioneer industry-leading innovations like the FlexDraper®.

In recognition of the creativity and energy MacDon's engineers bring to the job every day in their efforts to make better equipment, MacDon has been awarded six AE50 Awards since 2004.



**2004**  
**974 FlexDraper**



**2007**  
**M Series**  
**Windrower**



**2007**  
**FD70 FlexDraper**



**2008**

**R80 Pull Type  
Disc Mower**



**2012**

**R85 Pull Type  
Disc Mower**



**2016**

**R1 Series Pull  
Type Disc Mower**



M Series Windrowers



## Outstanding windrower performance.

MacDon continues our tradition of speed and innovation in windrower performance, we've got you covered for all your windrowing needs. A quick header switch takes you from draper, to rotary, to auger. And thanks to MacDon's patented Dual Direction® technology you'll go from field speeds of up to 26 km/h (16 mph) to road speeds of up to 37 km/h (23 mph). Comfort features and MacDon reliability keep you cutting all day long, harvest after harvest.

### **A TIER 4 WITHOUT COMPROMISE**

**Power:** With 155 HP tuned for performance to handle fluctuating loads in less-than-ideal harvesting conditions.

**Better Fuel Economy:** A highly efficient engine with diesel exhaust fluid (DEF) consumption as low as 3% of fuel. Our DEF tank has been sized to provide up to 75 hours of use between fills.

**Proven Reliability:** A proven Cummins engine with single turbo delivers reliable performance you can count on.

**Less Complicated:** Our Tier 4 diesels have no Diesel Particulate Filter (DPF) making this a low maintenance Tier 4 system.

**Less Noise:** Our new Tier 4 engines run smoothly and quietly.

### **5 YEAR (3000 HOUR) TIER 4 COMPONENT WARRANTY**

Our 5 Year (3000 hour) parts and labour Tier 4 component warranty covers: Exhaust canisters and related wiring, after-treatment piping, clamps, the DEF system, and the charge air cooler.

### **B COOL RUNNING**

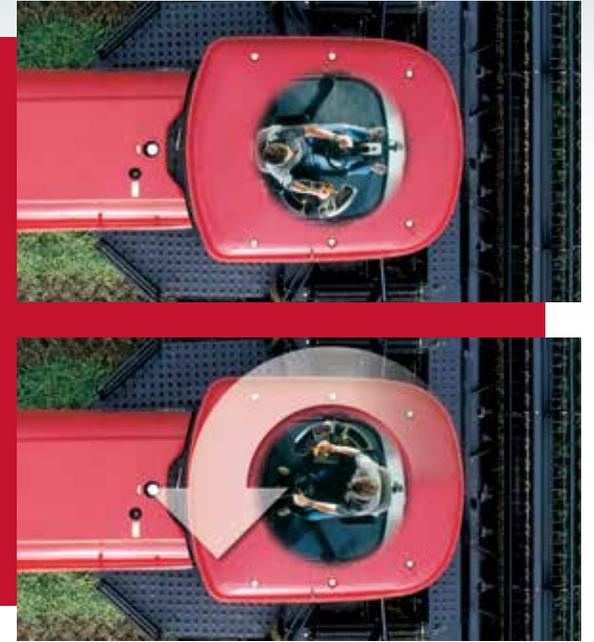
A new, larger radiator and fan keeps things cooler under the hood, increasing the overall engine efficiency and decreasing fuel consumption. Cooler hydraulics put less of a strain on the system, improving its reliability for the long-term.



C



 DUAL  
DIRECTION®



D



**C FASTER IN AND BETWEEN FIELDS**

Thanks to MacDon's patented Dual Direction<sup>®</sup>, you can switch to road travel mode in seconds and travel at speeds of up to 23 mph (37 km/h). In most cases, there's no need to detach the header, saving you time and labour when moving from field to field. Wide D Series Draper Headers can be easily transported with MacDon Windrowers using our Slow Speed Transport system. The Slow Speed Transport also allows you to tow your D Series Draper using a pickup-truck. Either way, you'll be spending less time in transport and more time cutting.

**D EXCEPTIONAL CROP CLEARANCE**

The M Series frame features a wide wheel stance and an unobstructed, unmatched 45.7" (1160 mm) below-frame clearance, ideal for cutting thick, bushy crops.

**E INCREASED COMFORT MEANS INCREASED PRODUCTIVITY**

MacDon's Ultra Glide<sup>®</sup> cab has a four-corner independent gas shock suspension system, featuring stabilization to prevent cab roll for the smoothest ride you've ever had in a windrower. The cab's forward design and curved glass provides unmatched visibility of the cutterbar and field conditions. The ergonomic cab design is ideal for operator comfort and control, reducing operator fatigue to keep you cutting all day long.

**F MORE STANDARD EQUIPMENT**

The Hydraulic Center Link and Warning Beacons come standard on all M155E4 Windrowers. The Hydraulic Center Link allows for on-the-go adjustments of the header angle, allowing you to instantly adapt to changing field conditions for optimal performance.



**G THE CUTTING CONTROL OF HARVEST MANAGER PRO**

M Series Windrowers come with a fully computerized monitoring and header control system, providing real time readouts of the header's cutting performance and other critical information. You'll enjoy simple, intuitive fingertip control of all header functions, including MacDon's popular "Return-To-Cut" feature, which returns the header to its previous cut settings after it has been lifted.

**UNPLUG ON THE GO**

MacDon's optional Hydraulic Header Reverser lets you easily unplug any bunching that may occur with an auger header or unplug the knife on a draper header without leaving the comfort of the operator's seat.

**H EASY MAINTENANCE**

All regular engine and hydraulic maintenance points are within easy reach thanks to MacDon's patented movable rail platform. The cooling system easily slides and swings out for fast cleaning, and your tools are kept nearby in the large easy access toolbox.

**H**





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D Series Draper Headers (Windrower)



## When the going gets tough, the tough keep cutting.

Low podding, downed, tangled, or lodged crops. Whatever the situation, MacDon D Series Draper Headers deliver outstanding harvesting performance. The D Series is a true multi-crop harvesting solution, perfect for harvesting cereals, oil seeds, grass seeds, or beans. With MacDon's HC10 Hay Conditioner this draper can handle up to 30' (9.1m) of hay and forage crops in one pass. This "Can Do" attitude delivered with MacDon reliability and performance, is the reason why MacDon Draper Headers are a great fit for so many of today's operations.

### **A** AMAZING REEL PERFORMANCE

MacDon's patented pick-up reel has been engineered to deliver outstanding performance. The unique movement of our reel confidently picks up and gently places crop onto the draper. Along with 4 cam positions, header tilt control, and fore-aft reel positioning, this reel can be adjusted to meet the toughest harvesting challenges.

### **B** ADVANCED DRAPER TECHNOLOGY

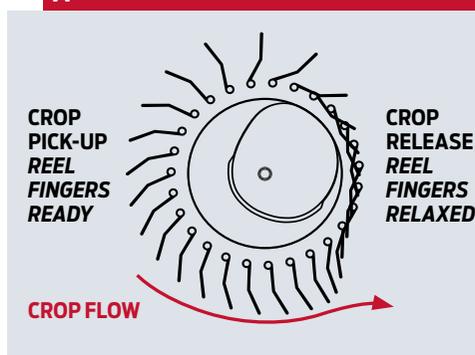
MacDon's draper system features heavy-duty drive components designed to handle the heaviest crop loads. Large capacity motors and tungsten carbide ribs on the steel drive rollers provide serious conveying power. The double V-guides keep the drapers tracking perfectly, and makes them reversible for twice the amount of in-field use.

### **C** A CONSISTENTLY CLOSE SHAVE

MacDon's patented C-shaped low profile cutter bar design allows ground level cutting for the most consistently close shave of your fields. Featuring the proven reliability of MacDon's Wobble Box knife drive, the self-contained hydraulic system gives you more control with an optional knife reverser, and standard knife speed control that can be adjusted on-the-go to match harvesting conditions.



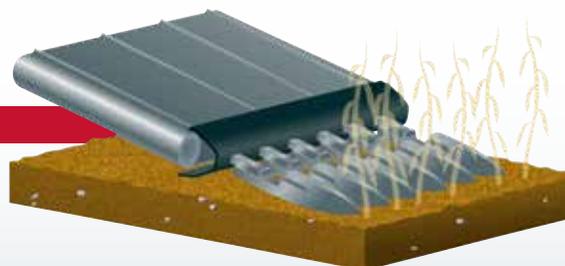
**A**



**B**



**C**



### **D** EXCELLENT FOR HAY AND FORAGE (A MULTI-CROP HARVESTING SOLUTION)

MacDon's optional HC10 Hay Conditioner transforms D Series Headers into high performance hay and forage harvesting machines. Add on MacDon's optional Double Windrow Attachment to place up to three passes of the header into a single windrow. This translates into significant time and fuel savings.

### **E** MORE PERFORMANCE OPTIONS

**Upper Cross Auger:** Attached in front of the back tube, the upper cross auger improves feeding of crop to the center in heavy, bushy, and high volume crop conditions.

**Cutterbar Wear Plate:** For wet harvesting conditions with soft ground, these poly skids guide the cutterbar over the field reducing mud build-up.

**Stub Guards:** Stub guards mount directly to the cutterbar to improve cutting performance in tough, stringy grass type crops, and crops that need to be cut close to the ground.



**E**



**D**



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**R Series Rotary Disc Headers**

## Make hay!

When it comes to rotary disc headers it's all about speed, precision, and durability. That's exactly what you get with MacDon R Series Rotary Disc Headers. Cut alfalfa at speeds up to 16 mph (26 km/h), power through 12' (3.6 m) sudan grass or 20 ton/acre heavy winter forage. Our strong frame and outstanding spring flotation system allows you to run the machine fast over rough terrain while still maintaining a smooth clean cut. With the addition of MacDon's Double Windrow Attachment you can place up to 48' (14.6 m) of well conditioned crop into a single windrow by combining three 16' (4.9 m) windrows. Altogether, that's MacDon performance you can rely on to get the job done in record time.

### **A** CLEAN CUT

The key to a clean disc cut is pairing a flat cutterbar angle with a low profile, the R85 has been engineered with both. Combined with a strong frame and an excellent spring flotation system this machine can run fast over rough uneven terrain while still maintaining a consistently clean cut.

### **3 YEAR CUTTERBAR WARRANTY**

Our cutterbar is backed by MacDon's 3 Year Cutterbar Warranty. That's our way of ensuring worry-free harvesting performance.

### **IMPROVED CAPACITY AND CROP HANDLING**

The R85's discs run in an optimized disc rotation pattern. The 5 crop stream promotes better crop flow in thick and tangled crop. Working together with the crop accelerators and an efficient overshoot auger means serious cutting capacity and improved windrow formation in tough conditions and high volume crops.

### **B** SERIOUS CONDITIONING

R Series headers are equipped with wide steel on steel rolls (118"/3000 mm). These wide rolls increase the amount of crop contact, improving crimping performance and ensuring thorough conditioning of the plant stem. These conditioning rolls also feature an "N" bar profile which more aggressively pulls crop away from the cutting discs assisting with overall capacity.





### **D BUILT TOUGH FOR DURABILITY**

Our engineers have substantially strengthened the R Series header frame by making sure that the top link, lower lift arms and all header parts are anchored or bolted to sturdy frame members. The replaceable inner skin on the access hoods helps to reduce damage to the outer cover for improved resale value.

### **OVERLOAD PROTECTION**

Each of the discs on the R Series cutterbar feature a shear key. This key is designed to shear if the disc comes in contact with an object large enough to stop its movement, preventing any serious damage to the cutterbar. The key can be replaced in the field allowing operators to quickly get back to cutting.

### **EASY MAINTENANCE**

Operators will appreciate the lower maintenance requirements. Our disc system has fewer moving parts than mechanical drive designs, and greasing happens at 25 and 50 hour intervals.

### **E DOUBLE WINDROW ATTACHMENT**

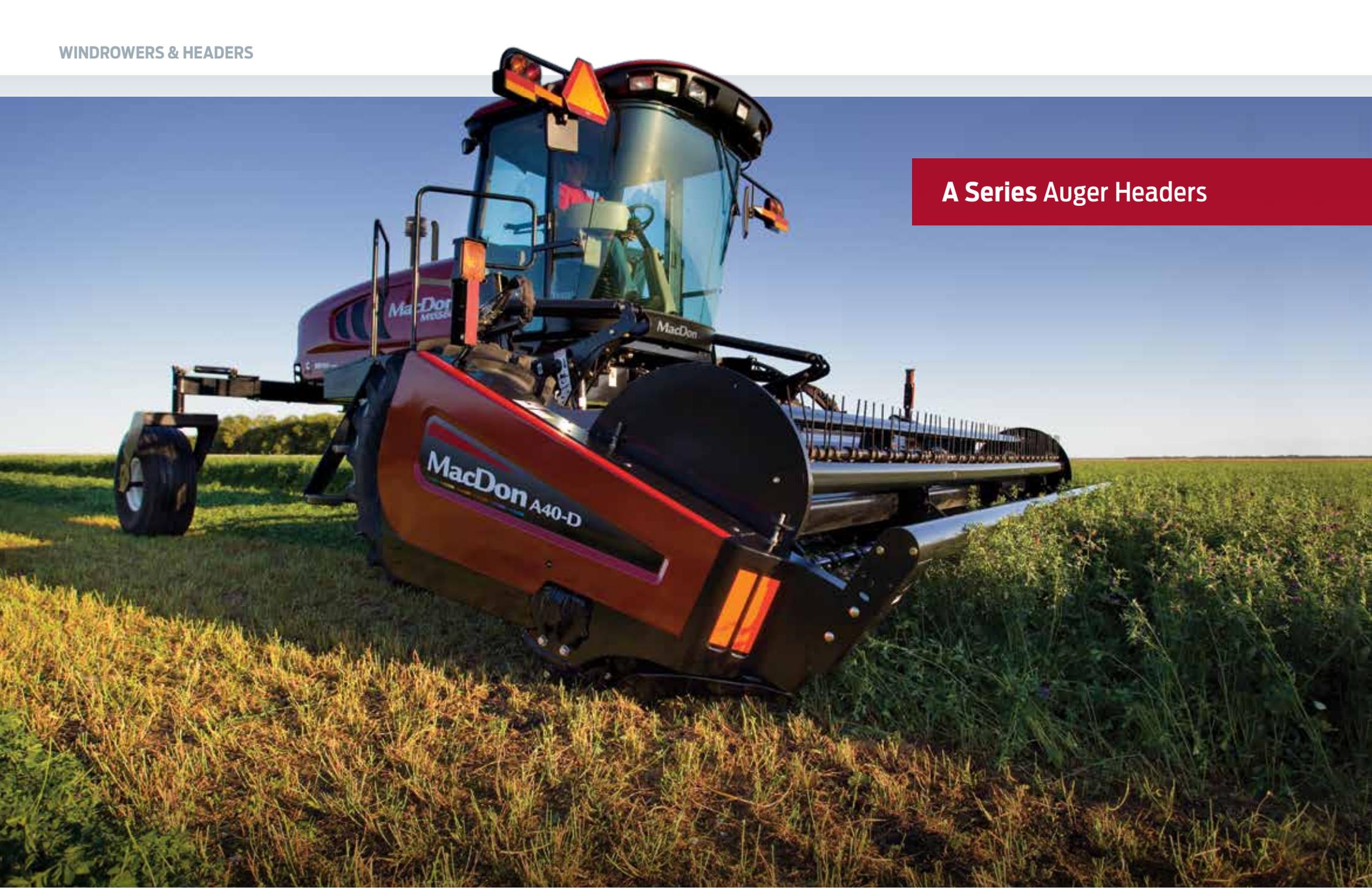
MacDon's Double Windrow Attachment allows you to place up to 48' (14.6 m) of crop into a single windrow by combining three 16' (4.9 m) conditioned windrows. Ideal for today's large forage harvesters, adding this option can translate into significant time and fuel savings in the field.





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**A Series Auger Headers**



## Tried, tested, and true performance.

A clean cut, smooth flow, and excellent conditioning, that's what you get from MacDon A Series Auger Headers. Like all MacDon harvesting machines, our A Series is designed to perform in the toughest conditions while providing exceptional durability. From the heavy-duty cutterbar, to the cast housing of the dual Wobble Boxes and rugged internal components of the knife drive system, the A Series is a commercial quality machine that high acreage producers rely on to deliver proven harvesting performance and reliability.

### **BUILT TOUGH TO DELIVER A CLEAN CUT**

We've made the cutterbar exceptionally strong with its Z-shaped profile and rectangular reinforcements. With a cast housing for the dual Wobble Boxes and rugged internal components of the knife drive system the A Series delivers a consistent clean cut in a wide range of crop conditions.

### **SMOOTH CROP FLOW**

On-the-go adjustment of the hydraulic drive reel, sickle, auger, and conditioner, allows the operator to be in full control of all aspects of hay and forage harvesting from the operator's seat. Crop flow happens smoothly, even under adverse conditions thanks to the combination of MacDon's poly feed pan design, progressive feed paddles, and stripper bar arrangement.

### **A SERIOUS CONDITIONING**

A Series Auger Headers are equipped with wide conditioner rolls for increased crop contact, improving crimping performance and ensuring thorough conditioning of the plant stem. The steel on steel inter-meshing roll design helps retain leaves which is important for high protein values and making high quality feed.

### **B DOUBLE WINDROW ATTACHMENT**

MacDon's Double Windrow Attachment (DWA) allows you to place up to 54' (16.45 m) of crop into a single windrow by combining three 18' (5.5 m) conditioned windrows. Ideal for today's large forage harvesters. Adding this option can translate into significant time and fuel savings in the field.



**SPECIFICATIONS PAGE 46**



ANY CROP  
ANY CONDITION  
ANY COMBINE

**D1 & FD1 Series Draper Header Performance**

# Any Crop. Any Condition. Any Combine.

Most combine headers perform well in perfect harvesting conditions, but when was the last time you had perfect conditions? MacDon FlexDraper® and Draper Headers are designed to maximize productivity in the most challenging harvesting situations, from our Active Float System that keeps our headers true-to-the-ground, to the outstanding performance of our reel. Available in sizes up to 13.7 m (45'), MacDon combine drapers are built tough to deliver worry-free harvesting performance with any crop, in any, any condition, and on any combine.

## A ACTIVE FLOAT SYSTEM

MacDon's Active Float System reacts instantly to changing ground conditions. This immediate float response means you can cut extremely close to the ground without pushing soil. Two sets of coil springs on the FM100 Float Module support up to 97% of the header weight. The instant float response provides 4.8 degrees of lateral float and 178 mm (7") of vertical float independent of the combine feeder house. MacDon's Active Float System keeps our headers true to the ground for a clean, even cut every time.

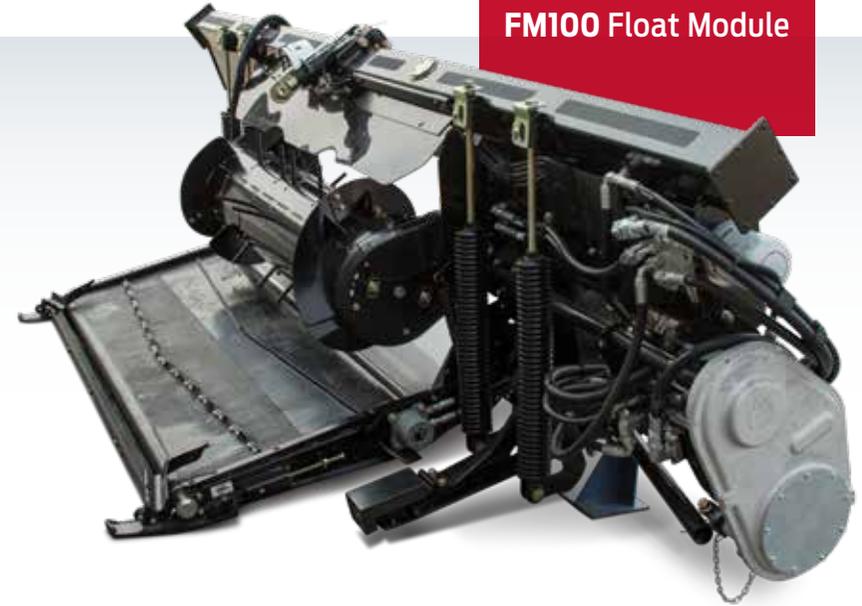


## COMBINE INTERCHANGEABILITY

Thanks to the FM100, MacDon Draper Headers are designed to fit on most major brand combines with an easy-to-install completion package. This multi-brand compatibility means your investment will hold its value until it's time to update your header.



FM100 Float Module



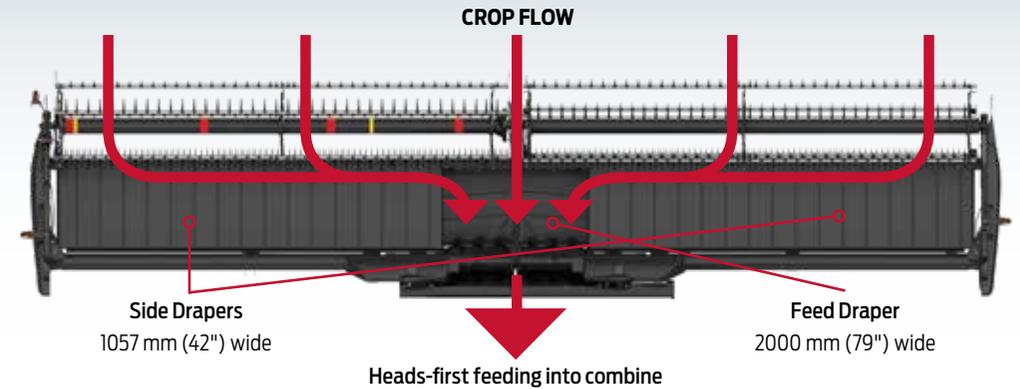
## LATERAL & VERTICAL FLOAT

HEADER SIZE	LATERAL FLOAT (1)	VERTICAL FLOAT (2)
9.1 m (30')	@ 4.8° = 411 mm (16")	178 mm (7")
10.6 m (35')	@ 4.8° = 505 mm (20")	178 mm (7")
12.2 m (40')	@ 4.8° = 549 mm (21.5")	178 mm (7")
13.7 m (45')	@ 4.8° = 617 mm (24")	178 mm (7")



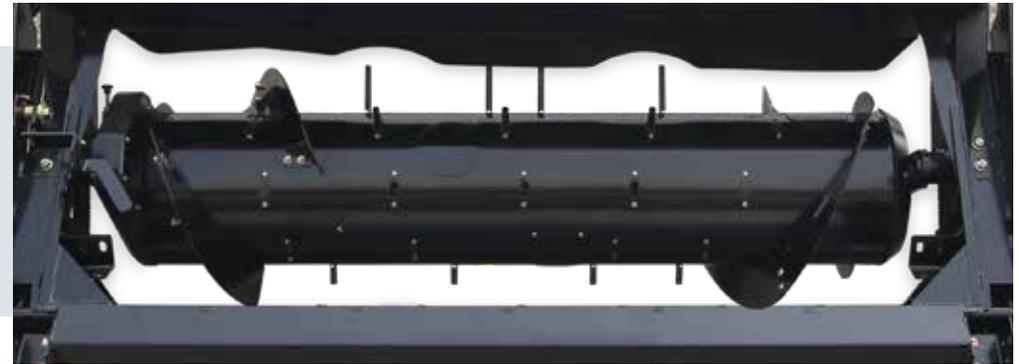
### **B ACTIVE CROP FLOW**

Upgrading from a traditional auger platform to a MacDon Draper increases productivity during harvest. MacDon's Active Crop Flow gently places crop on the side drapers heads-first and swiftly moves it onto the feed draper, where it's scooped up into the combine's feeder house. Heads-first feeding promotes peak combine efficiency by saving fuel, improving threshing action, creating better straw distribution, and allowing for a more productive harvest overall. Because this harvesting method is more efficient in damp and moist conditions, you can start earlier and work later into the evening.



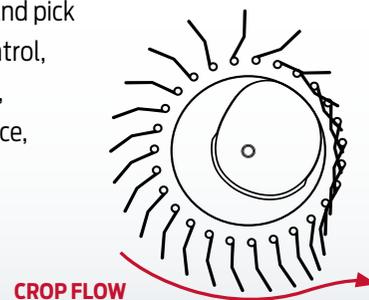
### **C OPTIMIZED FEEDING FOR SERIOUS CAPACITY**

The Retracting Tine Drum (RTD) of the FM100 has been engineered to maximize crop feeding. Adjustable tine timing and long (154 mm (6")) tine extension, aggressively engage high volumes of crop. The in-feed crop width can be tailored to match specific combine feeder houses.



### **D AMAZING REEL PERFORMANCE**

Unlike other headers, the movement of our heavy-duty reel picks up and gently places crop onto the drapers. The reel features a uniquely shaped cam, which allows the fingers to get underneath lodged crop and pick it up before it's cut. Along with the header tilt control, which hydraulically angles the knife from the cab, and fore-aft reel positioning, our headers can reduce, or altogether eliminate, the need for crop lifters.



B



### E MULTI-CROP HARVESTING SOLUTION

MacDon's D1 and FD1 Series headers are true multi-crop headers that are able to take down cereals, oil seeds, beans – just about any crop in any condition. The FD1 FlexDraper® switches easily from flex to a solid frame with the quick flip of a lever, giving you the ultimate flexibility to move from one crop-type to another. Any crop, any condition, MacDon Drapers are the ultimate performance upgrade for your combine.

### F ON-THE-GO CONTROL

Automatic Header Height controls allow the operator to choose ground pressure, cutting height, and header tilt, all right from the operator's seat. When used with the optional Stabilizer Wheels, it allows for automatic cut heights of 30-560 mm (1-22").

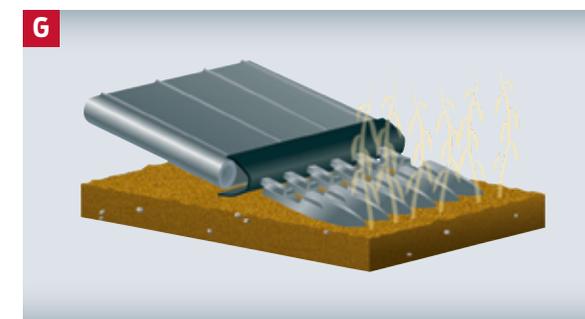


### G A CONSISTENTLY CLOSE SHAVE

MacDon's patented C-shaped low profile cutter bar design allows ground-level cutting for the most consistently close shave of your fields. Featuring a heavy-duty knife drive and in-cab knife angle control, this cutting system allows you to match any harvest conditions. The ultra-smooth ground-facing surface of our cutterbar helps our headers glide along the ground for a smooth close cut every time.

### H FULL HEADER WIDTH UPPER CROSS AUGER

The optional upper cross auger is attached in front of the back tube and runs the full width of the header, on sizes ranging from 7.6 m (25') to 12.2 m (40'). The upper cross auger helps to move heavy, bushy, high-volume crops like oilseed rape and peas, to the center of the header for smooth feeding.





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   ANY CROP  
ANY CONDITION  
ANY COMBINE



## FD1 Series FlexDraper® Headers



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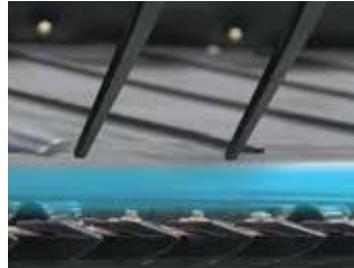
# Ground following like never before

Featuring MacDon Flex-Float Technology™, FDI Series FlexDraper® continue to advance harvesting innovation. The flex advantage comes from a fixed reel-to-cutterbar relationship, which maintains a small gap between the reel fingers and cutterbar, while the Active Float System allows for instant lateral and vertical float response over rolling and uneven terrain. The result of our Flex-Float Technology™ is smooth, consistent, heads-first feeding that significantly boosts combine productivity.



## A CLOSE REEL-TO-CUTTERBAR RELATIONSHIP

The MacDon FDI FlexDraper® features a fixed reel-to-cutterbar relationship. A small gap between the reel fingers and the cutterbar is maintained at all times, even at extreme flex, ensuring smooth, consistent, heads-first feeding of the crop over the entire width of the FlexDraper®.



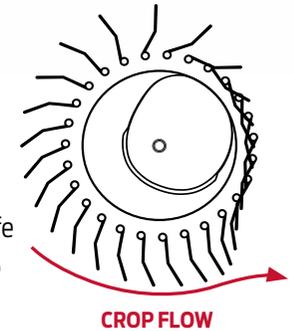
## B ACTIVE FLOAT SYSTEM

MacDon's Active Float System reacts instantly to changing ground conditions. This immediate float response means you can cut extremely close to the ground without pushing soil. Two sets of coil springs on the FM100 Float Module support up to 97% of the header weight. The instant float response provides 4.8 degrees of lateral float and 178 mm (7") of vertical float, independent of the combine feeder house. MacDon's Active Float System keeps our headers true-to-the-ground for a clean, even cut every time.



## C REEL PERFORMANCE

Unlike other headers, the movement of our heavy-duty reel picks up and gently places crop onto the drapers. The reel features a uniquely shaped cam, which allows the fingers to get underneath lodged crop and pick it up before it's cut. Along with the header tilt control, which hydraulically angles the knife from the cab, and fore-aft reel positioning, our headers can be adjusted for the toughest harvesting challenges.



## D TRUE GROUND FOLLOWING

The MacDon FDI FlexDraper® is a floating, three-section flexible header with a split reel. This allows the entire header frame, cutterbar, and reel to follow ground contours as a unit, flexing up to 245 mm (10") on either end, while maintaining a close reel-to-cutterbar relationship. This unique three-section design lets the FDI FlexDraper® deliver smooth, consistent, heads-first feeding to the combine, even at extreme flex.



PW8 Pick-Up Headers



## Set it and forget it.

Our engineers worked hard to make the PW8 as user friendly as possible. From easy installation to time saving innovations, it all adds up to harvesting performance you can count on. MacDon PW8 Pick-Up Headers are the smartest choice on the market.

### **A** SERIOUS PICK-UP CAPACITY IN ANY CROP CONDITION

A strengthened auger tube and robust chain drive allow the PW8 to easily handle high capacity loads. Hydraulic motors run both draper decks independently. The drapers are kept on track by MacDon's patented V-guide roller groove tracking system. Together these systems allow the PW8 to process the heaviest swaths with ease.

### **ON-THE-GO CONTROL**

The PW8 works with the combine's Automatic Header Height and Lateral Tilt System.

### **B** SIMPLE ADJUSTMENTS

A simple draper tensioning system, easy to see draper tension indicators, and common all metric hardware allow adjustments to be made in a flash.

### **DROP-AND-GO FLOAT PERFORMANCE**

Our simple and effective spring-over-shock floatation system provides a ground following 18" (45.7 cm) of wheel float, and requires no adjustment during operation or lockout during transport. Float indicator numbers are clearly visible on both sides of the machine, letting you know the PW8 is operating at an optimum float position.

### **BRAND COMPATIBILITY**

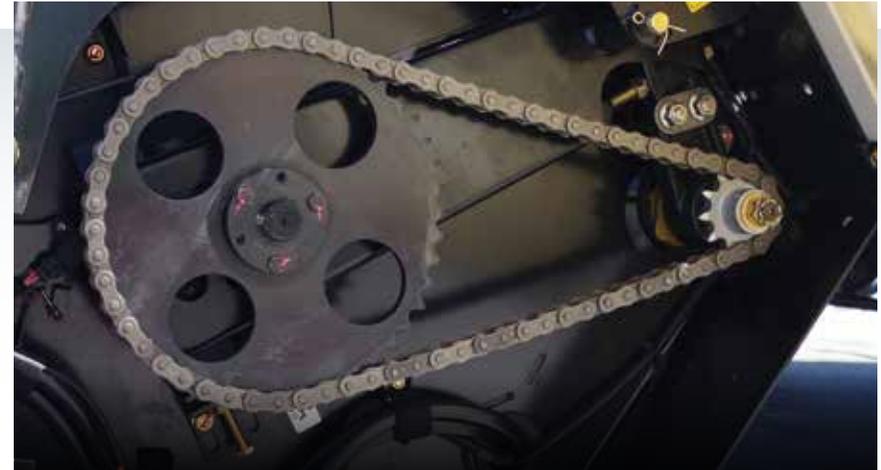
Switch combine brands with MacDon PW8 completion packages. These packages make it easy to switch between combine brands which increases resale value down the road.

### **C** GREAT SEED RETENTION

Tight draper connectors and seals, along with a deep overlap of front and rear draper decks ensure that more seed is making its way into the combine for better yields.

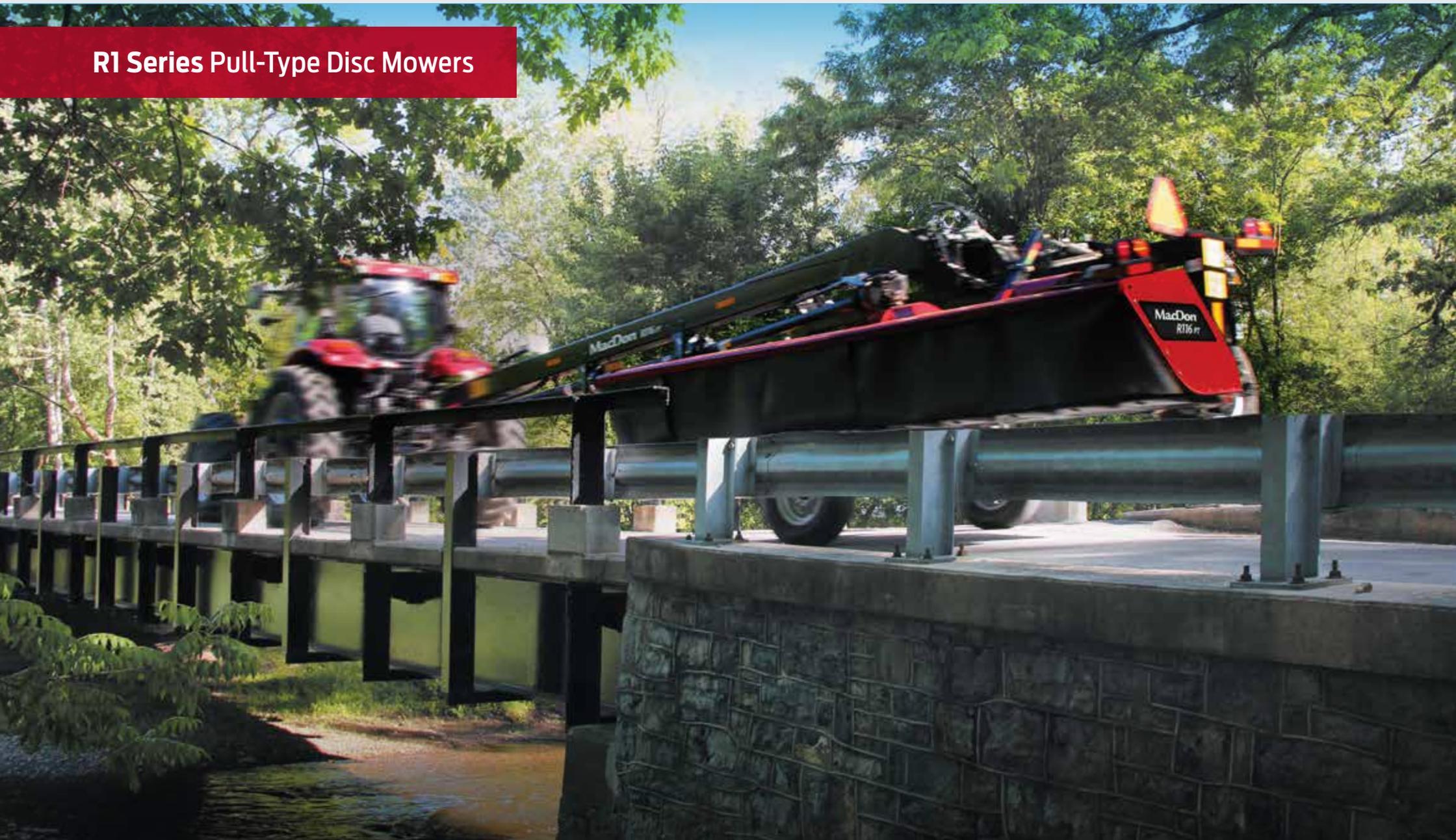
### **EASY MAINTENANCE**

Five 100 hour grease points make for quick and easy maintenance of this machine.



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R1 Series Pull-Type Disc Mowers



## Quick in the field, quick on the road.

Don't be limited by transport width. In just 30 seconds, our Road Friendly Transport™ option transforms both our 13' (4 m) and 16' (4.9 m) R1 Pull-Types to a narrow 9' (2.75 m) wide transport. This allows for quick, safe travel to, from, and between fields. The all-new, forward-mounted cutterbar design provides a cleaner, smoother cut than ever before, and it's backed by a 3 year cutterbar warranty. No matter what the harvest situation or conditioning need, the R1 Series lays down well-formed, well-conditioned windrows with the industry's widest rolls of 129" (328 cm), and four interchangeable conditioning options. Don't limit your harvesting possibilities; find out why more top producers trust MacDon for their harvest.

### A 9' WIDE ROAD FRIENDLY TRANSPORT (OPTIONAL)

Our Road-Friendly Transport™ option is available on both models and transforms the R1 into a road-friendly 9' (2.75 m) wide transport. Switch from field to transport in 30 seconds, for quick, safe travel to, from, and between fields. Moving from a 10' to a 16' mower can increase productivity by 60%, making this option ideal for operations in which width restrictions are a limiting factor.

### B CLEAN CUT

Our low-profile, forward-mounted cutting discs provide a flat header angle, resulting in a cleaner, smoother cut.

### 3 YEAR CUTTERBAR WARRANTY

Our new cutterbar design is backed by MacDon's 3-Year cutterbar warranty. That's just our way of ensuring worry-free harvesting performance.

### C OVERLOAD PROTECTION

Each of the discs on the R1 Series cutterbar features a shear pin. These pins are designed to shear if the disc comes into contact with any object that is large enough to stop its movement. The disc then moves up and out of the path of the obstruction, preventing any serious damage to the cutterbar. The shear pin can be replaced in-field, allowing operators to quickly get back to cutting.

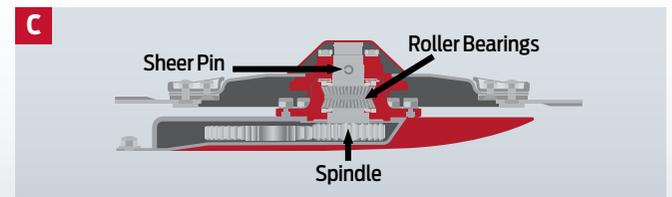


#### AE50 AWARD WINNER!

The R1 Series Pull-Type Disc Mowers received a 2016 AE50 Outstanding Innovation Award for the revolutionary Road-Friendly Transport™ package.



Switch from field to transport in 30 seconds



**D SERIOUS CONDITIONING**

Featuring the industry's widest conditioning roll at 129" (328 cm), and 4 interchangeable conditioning options. Choose from Steel Inter-Meshing, Polyurethane Inter-Meshing, Finger Conditioner, or No Conditioner option. The R1 lays down well-formed, well-conditioned wide to narrow windrows to suit a variety of conditioning needs.



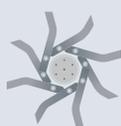
**Steel Inter-Meshing Rolls:**

This crimp style is especially effective for stiff or solid plant stem material. It produces well conditioned windrows over a wide range of widths. Ideal for high volume crops where aggressive feeding through the header is required. In smooth stemmed crops the steel inter-meshing roll action promotes even plant dry down by creating uniform crimps on the plant stem without bruising the delicate leaves. Steel rolls are extremely durable and require minimal maintenance.



**Polyurethane Inter-Meshing Rolls:**

Polyurethane delivers a combination crimp and crush action while being more gentle on plant leaves. The crushing action of the 129" (328 cm) wide polyurethane rolls produce a windrow that promotes quick even dry down of crops like alfalfa and alfalfa grass mixes. The polyurethane is also very effective on fine stemmed plants with solid stems like native hay, timothy, and Bermuda grass.



**Finger Conditioner:**

The Finger Conditioner is ideal for wiping stem wax from plant stems. It creates a fluffy windrow best suited to promote dry down of crops like coastal grass and other mixed forages. The finger conditioner requires the least amount of horsepower of our conditioning options.

**No Conditioner:**

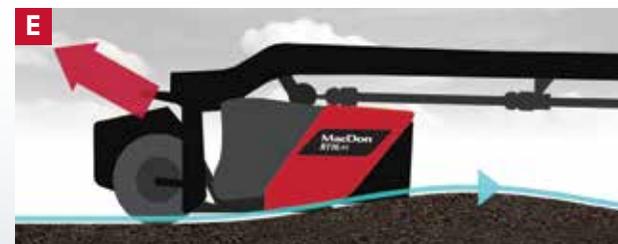
Not using a conditioner is ideal in crop conditions where laying out a wide loose windrow is enough to reduce moisture levels for baling or chopping.

**E UNIQUE RESPONSIVE FLOAT**

Using minimal ground pressure, our Responsive Float System moves the R1 "Up and Back" as it encounters bumps in the field. This unique movement results in true, even ground following and helps ensure a clean, smooth cut.

**LOW HORSE POWER REQUIREMENTS**

Requires only 100 hp for 13' and 125 hp for 16' model. Available with either 1000 pto 1 1/8" (35mm), 21 spline or 1 3/4" (45mm), 20 spline pto drive shaft options. Less horsepower means lower fuel consumption.





SPECIFICATIONS PAGE 47

## SPECIFICATIONS

### FDI FLEXDRAPER® SPECIFICATIONS (PAGE 26)

Size	30' (9.1 m)	35' (10.6 m)	40' (12.2 m)	45' (13.7 m)
Weight* Single Knife Drive with FM100	3384 kg (7460 lb)	3520 kg (7760 lb)	3733 kg (8230 lb)	-
Weight* Double Knife Drive with FM100	-	-	3797 kg (8370 lb)	3992 kg (8800 lb)
Knife: Type / Drive / Speed / Guards	Single or double knife / Hydraulic, MacDon design enclosed oil bath wobble box(es) / 1050 to 1400 spm, varies depending on header size / Pointed DHT (double heat-treated), strong, mud resistant profile			
Reel: Type / Drive / Speed / Fingers	Pick-up reel, 2-piece (double), flip-over design, cam-leading finger control / Hydraulic / 0 to 67 rpm varies depending on combine model / 279 mm (11") length, wear-resistant HD plastic, 102 mm (4") spacing			
Conveyor: Type / Drive / Speed	1057 mm (41.6") width, reversible 680.4 g (24 oz) rubber skim-coated drapers, double V-guide with tracking, integral seal on leading edge / Hydraulic / 0 to 194 m/min (0 to 636 ft/min) (Depending on combine model)			
Standard Features	Adapters for most current model combines, hydraulic fore-aft reel positioner, hydraulic header tilt, cutterbar poly wear plates, auto-header height with header angle and ground pressure indicators			
Field-Installed Options	Upper cross auger, stabilizer wheels, and other specialty option kits			

*\*All listed weights are approximations and will vary depending on header configuration. Check with your dealer for combine ratings. Weight includes FM100 Float Module. The FM100 Float Module weighs approximately 1089kg (2400 lbs); this number varies by combine model.*

### D1 DRAPER HEADER SPECIFICATIONS (PAGE 26)

Size	25' (7.6 m)	30' (9.1 m)	35' (10.6 m)	40' (12.2 m)	45' (13.7 m)
Weight* Single Knife Drive with FM100	2830 kg (6240 lb)	3270 kg (7210 lb)	3490 kg (7695 lb)	-	-
Weight* Double Knife Drive with FM100	-	-	-	3706 kg (8170 lb)	3837 kg (8460 lb)
Knife: Type / Drive / Speed	Single or double knife (depending on size and application) / Hydraulic, MacDon design enclosed oil bath Wobble Box(es) / Single knife combine 1050 to 1400 spm, double knife combine 1100 to 1700 spm (speed varies depending on header size, faster knife speed on smaller headers or double knife headers)				
Guard Types Available	Pointed DHT (double heat-treated), stub SM (sheet metal hold-down, forged bottom guard), stub F (forged top and bottom)				
Reel: Type / Drive / Speed / Fingers	Pick-up reel, five or six bat, two-piece (double) or single, flip-over design, cam-leading finger control / Hydraulic / Combine 0 to 67 rpm (varies depending on combine model) / HD plastic, 152 mm (6") spacing, 279 mm (11") length				
Conveyor: Type / Drive / Speed / Delivery	1057 mm (41.6") wide 680.4 g (24 oz) rubber skim-coated drapers, reversible double V-guide with tracking, integral seal on leading edge / Combine 0 to 194 m/min (0 to 636 ft/min) / Mechanical deck shift, opening width 1539 mm (60.6") to 1948 mm (76.7")				
Field-Installed Options	Upper cross auger, stabilizer wheels, and other specialty option kits				

*\*All listed weights are approximations and will vary depending on header configuration. Check with your dealer for combine ratings. Weight includes FM100 Float Module. The FM100 Float Module weighs approximately 1089kg (2400 lbs); this number varies by combine model.*

### FM100 FLOAT MODULE SPECIFICATIONS (PAGE 27)

Size	Center Draper	Feed Auger
Weight	2000 mm (78.7") width	1660 mm (65.3") width
Type	Approximately 1089 kg (2400 lb), varies by combine model	
Speed	Self-tracking, rubber-coated polyester fabric feed draper with rubber slats, hydraulic drive (reversible)	Floating auger, mechanical drive (reversible), removable retracting fingers with full-retraction when reversing
Header Flotation: Type / Vertical Range / Lateral Range (tilt)	107-122 m/min (350 to 400 ft/min)	185-206 rpm, varies with combine model
	Two pairs of coil springs, independent adjustment, transport lock-out / 178 mm (7") / 4.8 degrees	
<i>Fits most current model combines.</i>		



## SPECIFICATIONS

### M SERIES SPECIFICATIONS (PAGE 10)

Model	M155E4
Engine	Cummins 4.5 L (275 cu in), 4 cylinder, turbo
Horsepower	Rated 155 HP (116 kW) @2200 RPM
Weight*	9810 lb (4450 kg)
Batteries / Alternator	2, 12-volt / 160 AMP
Fuel Tank	97 U.S. gal (367 L)
Front Tread Width	134.25" (3410 mm)
Rear Tread Width	Adjustable from 96.4" (2448 mm) to 135.7" (3448 mm)
Wheel Base	158.3" (4020 mm) field position
Crop Clearance	45.7" (1160 mm)
Drive Wheels	18.4 x 26 bar or turf, 23.1 x 26 turf or 600/65 R28 radial bar
Tail Wheels	7.5 - 16 SL or 10 x 16 formed casters, 10 x 16 or 16.5L - 16.1 forked casters
Transmission	Hydrostatic, 3-speed electric shift motors
Field Speed	0-16 mph (26 km/h)
Road Speed	0-23 mph (37 km/h)
Final Drive	Planetary gearbox
Cab Equipment	Dual Direction® operator station, Ultra Glide® cab suspension
Operator Station	Deluxe multi-adjustable air ride seat, fold away trainer seat, windshield wipers, air conditioner/heater, tilt steering, egress lighting on cab
Instrumentation and Monitor System	Harvest Manager Pro: ground speed, engine speed, header height, header angle, header float, knife SPM or disc RPM, reel speed, conveyer speed, hydraulic oil temperature, reel and conveyor index
Options	Windshield shades (front and rear), weight box for towing header (required), lighting and marking kit for cab forward travel (required), reverser valve and plumbing, double windrow attachment, pressure sensor kit (for enhanced monitoring of header), booster springs. Compatible with most GPS systems

\*Add approximately 1150 lb (522 kg) to weight for tire package.



## SPECIFICATIONS

### D65 DRAPER HEADER SPECIFICATIONS (PAGE 16)

Size	15' (4.6 m)	20' (6.1 m)	25' (7.6 m)	30' (9.1 m)	35' (10.6 m)	40' (12.2 m)
Weight* Single Knife Drive	2780 lb (1258 kg)	3265 lb (1484 kg)	3667 lb (1660 kg)	4370 lb (1981 kg)	4808 lb (2181 kg)	5197 lb (2352 kg)
Weight* Double Knife Drive	-	-	3872 lb (1753 kg)	4812 lb (2178 kg)	5019 lb (2277 kg)	5704 lb (2593 kg)
Knife: Type / Drive / Speed	Single or double knife (depending on size and application) / Hydraulic, MacDon design enclosed oil bath Wobble Box(es) / Single knife windrower 1300 to 1500 spm, double knife windrower 1500 to 1900 spm, single knife combine 1050 to 1400 spm, double knife combine 1100 to 1700 spm (speed varies depending on header size, faster knife speed on smaller headers or double knife headers)					
Guard Types Available	Pointed DHT (double heat-treated), pointed CH (case-hardened), stub SM (sheet metal hold-down, forged bottom guard), stub F (forged top and bottom)					
Reel: Type / Drive / Speed / Fingers	Model pick-up reel, 5 or 6 bat, 2 piece (double) or single, flip-over design, cam-leading finger control / Hydraulic / SP windrower 0 to 85 rpm, combine 0 to 67 rpm (varies depending on combine model) / HD plastic, 6" (152 mm) spacing, 11" (279 mm) length					
Conveyor: Type / Drive / Speed / Delivery	41.6" (1057 mm) wide 24 oz (680.4 g) rubber skim-coated drapers, reversible double V-guide with tracking, integral seal on leading edge / Hydraulic / Windrower 0 to 742 ft/min, combine 0 to 464 ft/min / Mechanical or hydraulic deck shift (SP windrower only), opening width 60.6" (1539 mm) to 76.7" (1948 mm)					
Field Installed Options	Upper cross auger, stabilizer wheels, and other specialty option kits					

\*All listed weights are approximations and will vary depending on header configuration.

### R SERIES ROTARY DISC HEADER SPECIFICATIONS (PAGE 20)

Size	13' (4 m)
Weight	3000 lb (1360 kg)
Drive (Maximum Hydraulic Power)	130 hp (97 kW)
Cutting Speed / Knife Tip Speed	1800 to 2600 rpm / 131 mph (210.8 km/h) to 189 mph (304 km/h)
Cutting Angle Range	0-8° below horizontal
Number of Cutting Discs / Blades	8 / 2
Hay Conditioner Roll: Type / Length	Inter-meshing steel / 118" (3000 mm)
Gear Train Protection	Shear key in each spindle
Options	Tall crop divider, gauge roller (only available for 16' (4.9 m) model), adjustable skid shoes, double windrow attachment, hydraulic couplers for quick attachment

### A SERIES AUGER HEADER SPECIFICATIONS (PAGE 24)

Size	16' (4.9 m)	18' (5.5 m)
Weight	5058 lb (2295 kg)	5248 lb (2381 kg)
Sickle: Type / Drive / Speed / Stroke / Guards / Sickle Sections	Double knife / Hydraulic, dual MacDon Wobble Boxes / Variable 1450 to 1900 SPM / 3" (76 mm) / Pointed DHT (double heat-treated) / 3" (76 mm) over-serrated, bolt-on	
Reel: Type / Drive / Speed (optional sprockets) / Fingers*	6 bat, oval closed bats with end caps, sectioned bar with greaseable ball bearings / Hydraulic, motor to enclosed gearbox / Variable from cab 51 to 85 rpm / Steel	
Conveyor (Auger): Type / Drive / Speed (optional sprockets) / Delivery Width	20" (508 mm) undershot, center-feed auger over replaceable, high-density polyethylene auger pans, rubber feed fingers / Hydraulic, direct-mounted motor / Variable from cab 230 to 320 rpm / 95.7" (2430 mm)	
Conditioner: Type / Roll Length / Outside Dimension / Drive / Speed	Non-contact, steel N-bar, intermeshing crimping rolls, header-mounted rolls and forming shields / 102" (2590 mm) / 9.17" (233 mm) / Hydraulic motor to enclosed gearbox / Variable 601 to 790 rpm	

\*Max speeds will be dependent upon Windrower model

## PW8 PICK-UP HEADER SPECIFICATIONS (PAGE 36)

Weight	3200 lbs (1452 kg)
Overall Width	18' 6" (566 cm)
Effective Picking Width	14' 8" (452 cm) between divider lugs
Overall Depth	96.9" (246 cm)
Auger Diameter	24" (61 cm)
Auger Fingers	Factory set for 18, qty to match specific combine feeder house
Auger Speed	0-200 rpm (Depending on combine model)
Auger Drive Chain	Endless # 80 chain
Drive Shaft	Heavy duty, 1.375" diameter, fully shielded with built in clutch
Draper Belts	Each deck consists of (4) 44.3" (1125 mm) wide drapers joined and equipped with patented tracking V-guide on right end
Draper Speed	0-35 ft/min (10.7 m/min) (Depending on combine model)
Draper Fingers	5" Plastic
Draper Rollers	Large 5" (127 mm) drive and 4" (102 mm) idler roller (same on both decks) with V-Groove on right hand side to ensure proper draper tracking and reduced slippage
Draper Drive	Two, 5.9 CID (97 cc) hydraulic motors
Gauge Wheels	18.5/8.50-8, adjustable height
Header Float	Spring-Over-Shock System requires no adjustment or lock-out for transport and provides 18 inches of wheel float

## R1 SERIES PULL-TYPE DISC MOWER SPECIFICATIONS (PAGE 38)

Size	13' (4 m)	16' (4.9 m)
Number of Cutting Discs / Blades	8 / 2	10 / 2
Horse Power Requirements	100 hp	125 hp
PTO	1000 RPM PTO 1 3/8" (35 mm) / 21 spline or 1 3/4" (45 mm) / 20 spline	
Weight (Steel Conditioner)	5300 lb (2404 kg)	6040 lb (2740 kg)
Weight (Steel Conditioner with Road Friendly Transport)	6800 lb (3085 kg)	7540 lb (3421 kg)
Length (without Road Friendly Transport)	280" (711 cm)	338" (858 cm)
Length (with Road Friendly Transport)	328" (833 cm)	386" (985 cm)
Transport Width (without Road Friendly Transport)	160" (406 cm)	198" (502 cm)
Transport Width (with Road Friendly Transport)	106" (269 cm)	106" (269 cm)
Tractor Hydraulic Capacity (psi)	2000 psi	
Tractor Hydraulic Remotes	Requires 2 remotes, 3 with Hydraulic Header Angle Adjustment option.	
Gear Train Protection (Cutter Bar)	Shear pin in each spindle	
Hay Conditioner Options: Type / Length	Inter-meshing steel and Polyurethane rolls and Finger Type / 129" (328 cm) / No Conditioner	
Hitch Type	Drawbar or Cat. II 2-Point Hitch (Quick Hitch Adaptable)	
Header Angle Adjustment	Manual standard, hydraulic optional.	
Mower Configuration	Center Pivot	
Field Tires	31-13.5 R15 8ply	
Transport Tires (optional)	235-80 R16	
Options	Tall crop divider, and Hydraulic header angle adjustment, Road Friendly Transport	

# Keep your MacDon at peak performance with MacDon Performance Parts.

If you own a MacDon, it's probably because you wanted a machine with a high level of performance, reliability, and overall quality. To keep your MacDon running at its peak performance, insist on MacDon Performance Parts. Parts are designed to meet MacDon's demanding performance specifications. They are tested in the toughest real-world conditions, ensuring the worry-free harvesting performance you've come to rely on with MacDon.

***Demand the best for your harvest.***

Ask for MacDon Performance Parts at your local MacDon Dealer parts counter.

**MacDon<sup>®</sup>** *Performance Parts*

