



## **CONTENTS**

0	4	Harvesting Performance
		Tidi vestilig i citorifiance

Of Draper History

08 Follow

**20** Cut

28 Feed

**40** Ease

48 More

**56** Specifications

**58** Performance Parts





## HARVESTING PERFORMANCE

For over 70 years MacDon has been a world leader in technology, innovation, and manufacturing of high-performance harvesting equipment. Our harvesting history is rooted deep in the rich prairie heritage of Winnipeg, Manitoba, Canada. MacDon products are distributed and supported worldwide from offices in Canada, the United States, Australia, Russia, Brazil, and Germany.

MacDon's relentless pursuit of improvement is driven by the desire to make harvesting easier and more productive for farmers. Working directly with producers and custom harvesters in the toughest real-world conditions guides MacDon to pioneer industry-leading innovations like the FlexDraper®. MacDon has a worldwide reputation for excellence as *The Harvesting Specialists* and we are proud to make equipment that help producers harvest the crops that feed the world.





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- MacDon Head Office & Manufacturing
- MacDon Offices
- MacDon Products are Sold

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



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## DRAPER HISTORY

1949

Our Draper history stretches all the way back to 1949. Known then as Killbery Industries Ltd., we produced one of North America's first selfpropelled windrowers under the Grain-Saver brand name.

## HARVEST HEADER

1988

In 1988 we started a revolution with the MacDon Harvest Header, this innovative product was the first Draper Header produced to be used with a combine.



# 974 FlexDraper®

2004

In 2004 we bent the rules, literally, with the invention of the FlexDraper®.

The 974 FlexDraper® changed the harvesting landscape once again by adding Flex and Float to combine Draper Headers.

# FD2 2021

Turning the industry upside down again, the FD2 delivers more of everything you need for harvesting performance. More Capacity, More Speed, More Flex, from the company that brought you the Original FlexDraper®.

# FOLLOW

## A Ground Following Dream.

MacDon's legendary ground-following ability continues with the FD2. MacDon's Active Float System gets coupled with up to 70%\* more flex for a harvesting experience like never before. Flex-Float Technology® gets turned up with MacDon's optional ContourMax<sup>TM</sup> Contour Wheels. These wheels allow the header to follow the field's contours, leaving a consistent stubble height while cutting from 1 to 18 inches¹ off the ground.

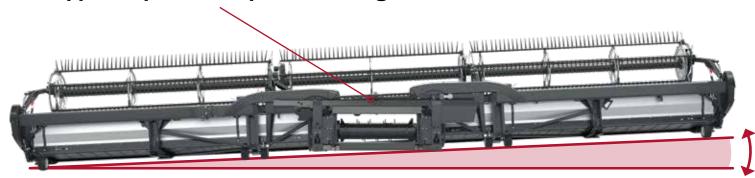
+2.5 cm (1") / 45.7 cm (18") \*Compared to previous model.







## Supports up to 97% of header's weight







## **FOLLOW**

#### **More Flex**

With the FD2, you get up to 70% more flex from the one and only FlexDraper®\*. The FD2 is a floating three-section flexible header with double and triple reel configurations; this allows the entire header frame, cutterbar, and reel to follow ground contours as a unit, flexing up to 17 inches⁺ on either end while maintaining a close reel-to-cutterbar relationship. This unique flexing action allows the FD2 to follow the ground and deliver smooth, consistent, heads-first feeding to the combine, even at extreme flex.

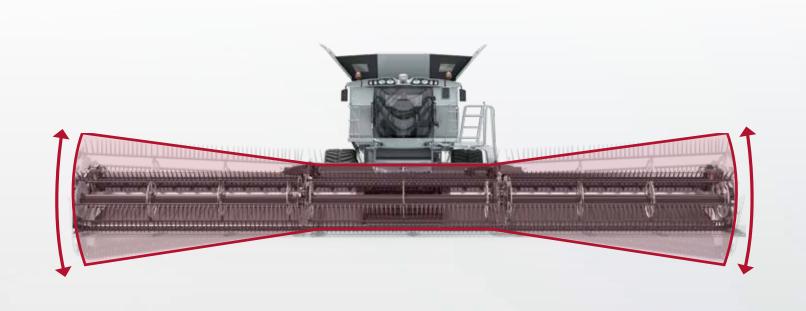
\*43.2 cm (17") \*Compared to previous model.



#### FD2 FLEX RANGE

	Standard (Factory) Range	Increased Range**
FD230	165 mm [6.5"] up & 130 mm [5"] down	165 mm [6.5"] up & 165 mm [6.5"] down
FD235	205 mm [8"] up & 130 mm [5"] down	205 mm [8"] up & 205 mm [8"] down
FD240 Double Reel	205 mm [8"] up & 130 mm [5"] down	205 mm [8"] up & 205 mm [8"] down
FD241	205 mm [8"] up & 130 mm [5"] down	205 mm [8"] up & 205 mm [8"] down
FD240 Triple Reel	205 mm [8"] up & 205 mm [8"] down	
FD245	216 mm [8.5"] up & 216 mm [8.5"] down	
FD250	216 mm [8.5"] up & 216 mm [8.5"] down	

<sup>\*\*</sup>The flex range can be increased by removing the flex limiter, however a greater reel to cutter bar clearance is required. This is a customer configuration; instructions in Op Manual









## **Close Reel-to-Cutterbar Relationship**

The FD2 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 length of the FlexDraper®.



## **Multi-Crop Harvesting Solution**

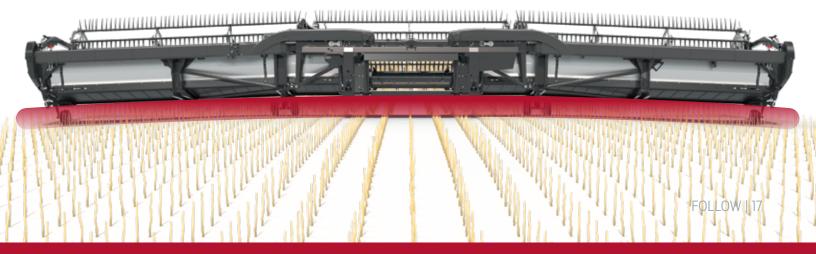
The MacDon FD2 FlexDraper® is a multi-crop harvesting machine. Switch the FD2 easily from a flex to a rigid frame header with the simple flip of a lever, giving you the versatility to move from one crop type to another. Cereals, oilseeds, beans, just about any crop in any condition; another reason why the FD2 is the ultimate performance upgrade for your combine.











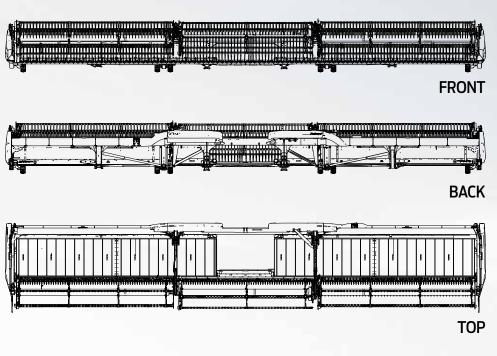
## **FOLLOW**

## **Triple Reel**

New for the FD2 is a triple reel option. Three reel sections now mirror the flexing points of the header, delivering an even closer reel-to-cutterbar relationship for smooth, consistent, heads-first feeding. Triple reels are optional on 40 foot and standard on 45 and 50 foot FD2 models<sup>+</sup>.

<sup>+</sup>12.2 m (40'), 13.7 m (45'), 15.2 m (50')











## **Cut Cleaner. Cut Faster. Cut More.**

MacDon's ClearCut™ High-Speed Cutting System delivers just that; clean cutting at up to 30% faster speeds\*. Helping you get there is MacDon's improved knife drive with more power and new knife section geometry with 25% more cutting surface. A smooth close shave comes from two unique ClearCut Knife Guards; choose between Pointed Knife Guards or PlugFree™ Knife Guards that resist plugging even in the nastiest conditions.

\*Compared to previous model.



## **ClearCut™ High-Speed Cutting System**

MacDon's ClearCut High-Speed Cutting System delivers just that; a clean cut at faster speeds. This high-speed system is delivered with two unique knife guards, more power from MacDon's improved knife drive and over 25% more cutting surface from an increased knife and guard geometry. Altogether, these improvements allow the FD2 FlexDraper® to provide a clean, even cut every time.





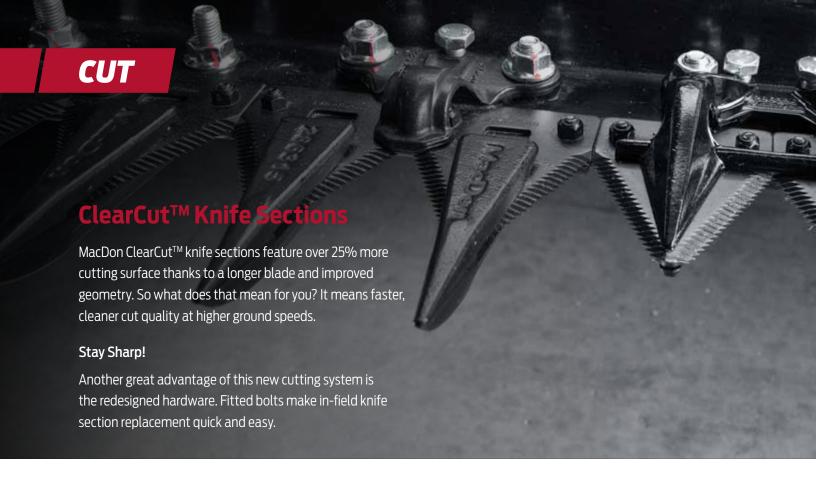


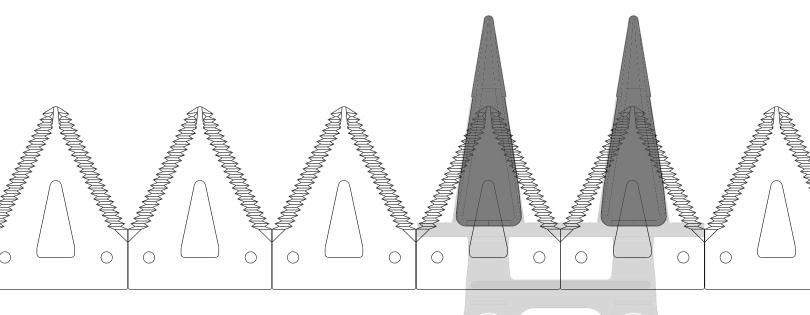




## **ClearCut™ High-Speed Knife Drive**

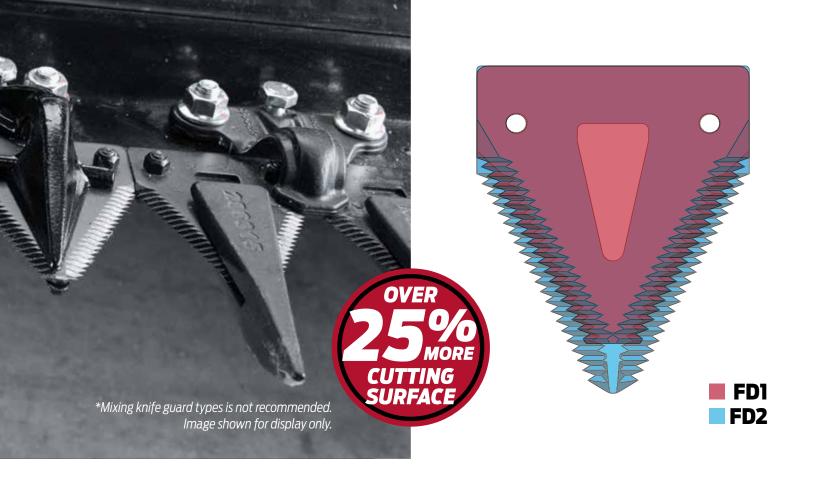
Your need for speed is satisfied with MacDon's improved knife drive, providing more torque to power through the most challenging cutting conditions. Featuring a larger output shaft, a flywheel for smooth operation, and a direct hydraulic drive, it's the heart of MacDon's ClearCut<sup>TM</sup> High-Speed Cutting System.

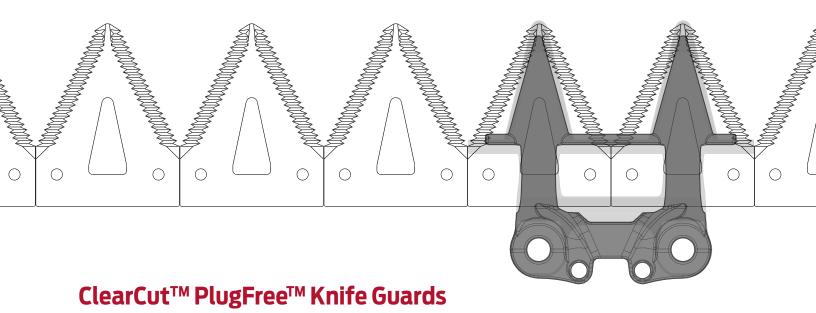




## ClearCut™ Pointed Knife Guards

ClearCut<sup>™</sup> Pointed Knife Guards are multi-purpose knife guards designed to glide along the surface at high cutting speeds for a clean, even cut every time.





This guard design gets the knife as close to the ground as possible while still protecting the blade from damaging debris in the field. ClearCut PlugFree Knife Guards resist plugging even in the nastiest conditions providing the closest cleanest possible shave of the ground.



## **A Consistently Close Shave**

On the FD2, MacDon's low-profile cutterbar improves on an already good thing; the knife's distance to the draper is shorter, meaning less chance of seed loss at the cutterbar. In-cab header tilt control adjusts the knife angle to match any harvest condition, and the ultra-smooth ground-facing surface of the cutterbar helps it glide along the ground for a smooth close shave every time.



#### VertiBlade™ Vertical Knives

A performance option worth mentioning for anyone cutting in messy crops. The MacDon VertiBlade™ vertical knife reduces seed loss in tangled, shatter-prone crops like canola (rapeseed). The VertiBlade integrates seamlessly into the header design and is easy to install. Just hook on and connect in one move, hydraulics and all, with MacDon's Quick Latch End Divider System.











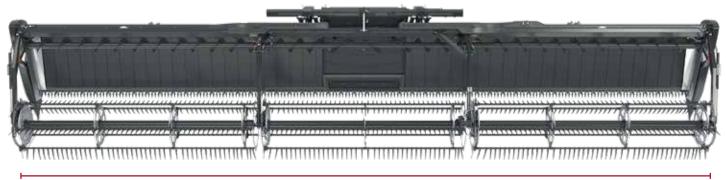
## High Volume Heads-First Feeding.

The FD2's all-new frame features an ultra-deep deck with 50 inch deep drapers and is now available in 30 to 50 foot configurations. The FD2 delivers up to 20%\* more capacity of smooth heads-first feeding in the tallest bushiest crops it can get its reel fingers on. No matter what type of combine you mount it to, the FeedMax<sup>TM</sup> Crop Feeding System optimizes performance. Along with active crop flow, patented reel movement, and new ShatterGuard reel positioning, the FD2 is ready for action\*.

<sup>+</sup> 127 cm (50"), 9.1 m (30') to 15.2 m (50') \*Compared to previous model.

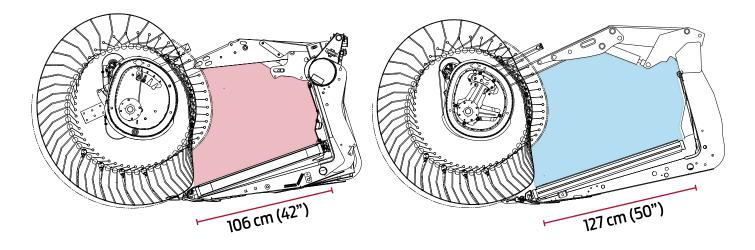






15.2 m (50')





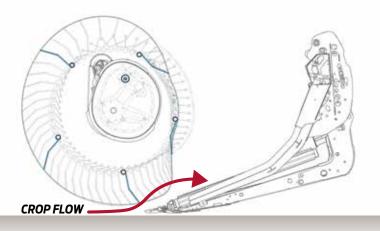
FD1 FlexDraper®

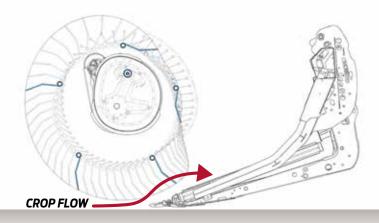
FD2 FlexDraper®

## **Amazing Reel Performance**

The unique movement of the FD2 reel picks up and gently places crop onto the drapers. This patented reel features a uniquely shaped cam that allows the fingers to get underneath lodged crop and pick it up before it's cut. Aluminum reel ends and sectors help reduce overall weight and improve efficiency. The FD2 header and reel are highly adjustable from the cab for optimal performance. Header tilt control adjusting the draper and knife angle, and fore-aft reel positioning lets you set the FD2 for the most challenging real-world harvesting conditions.

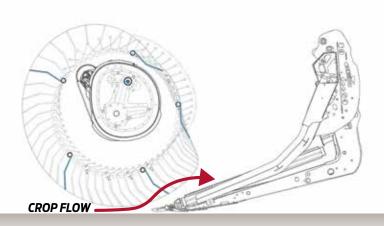




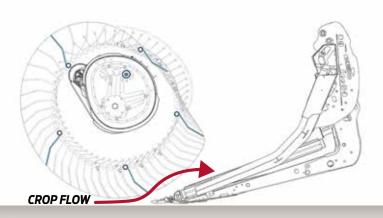


Cam Position 1

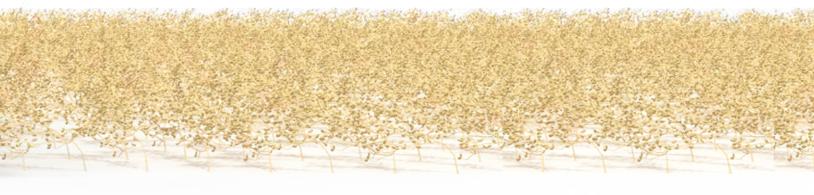
**Cam Position 2** 







Cam Position 4









## **ShatterGuard Reel Positioning**

Introducing MacDon's ShatterGuard Reel Positioning. Using MacDon's Set-It-Right Multi-Tool, this quick, simple adjustment to the reel comes standard on all FD2 models. ShatterGuard Reel Positioning is designed with tall brittle bushy crops like canola in mind. This adjustment sets the reel further back on the header, preventing shatter on the ground, keeping crop on the drapers where you want it.

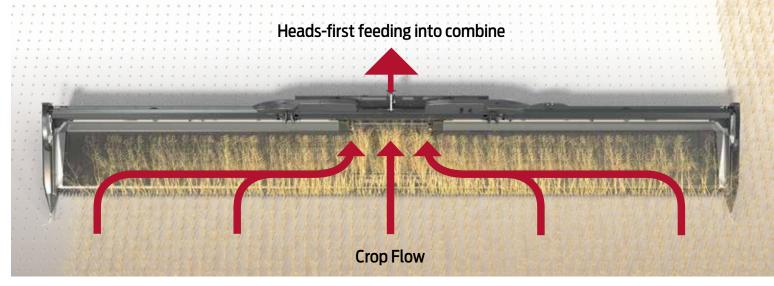




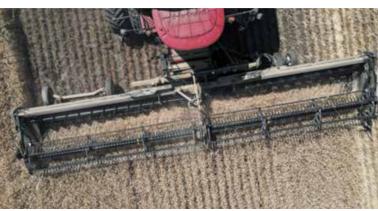
## **Heads-First Active Crop Flow**

Once the crop gets on the drapers, MacDon's Active Crop Flow takes over, swiftly moving the crop heads-first down the side drapers and into the combine's feeder house. Now standard on the FD2, the in-cab side draper speed control allows on-the-go adjustment. Heads-first feeding promotes peak combine efficiency by improving threshing action, creating better straw distribution, and providing an overall more productive fuel-saving harvest. What's more, MacDon's Active Crop Flow is more efficient in damp and moist conditions, meaning you can start earlier and work later into the evening.















#### **Full-Length Upper Cross Auger**

A performance option worth considering for anyone harvesting big bushy, high-volume crops, like canola (rapeseed), peas, and mustard, is the Upper Cross Auger. The auger keeps bushy crops on the draper as they move to the center of the header, where twin pitch flighting actively and aggressively drives the crop down onto the feed auger. This option runs the full length of the header and is available on all sizes of the FD2 FlexDraper®.



#### FeedMax<sup>™</sup> Crop Feeding System

Big, small, new, old, the FeedMax<sup>™</sup> Crop Feeding System has an aggressive feeding action and can be custom configured to match any combine's performance. Featuring combine-tailored speed control and customizable auger flighting to fit any combine's feeder house opening, the FeedMax Crop Feeding System upgrades and optimizes any combine's performance.









# Purposefully Designed to Make Harvest Easy.

We all know harvest time is go time, and with the FD2, you won't waste time messing around. The FD2 lets you get the job done without the struggle: easy set-up, easy operation, easy upgrades. From the quick set-up of the EasyMove<sup>TM</sup> Transport to seamless combine integration, the FD2 is always ready for action!



#### **Any Combine**

The FD2 FlexDraper® fits all major brand combines\* with a completion package that integrates seamlessly with your combine for the best possible user experience. This multi-brand compatibility and interchangeability means your investment will hold its value when you decide to update.

\*See your MacDon Dealer to find out if the FD2 will fit to your combine.











#### ▲ Set-It-Right Multi-Tool

The Set-It-Right Multi-Tool is all you need to get the FD2 dialed in for harvesting success. Conveniently stored onboard the header, this one tool gets the FD2 ready for your unique harvesting conditions.

The Set-It-Right Multi-Tool lets you make the following adjustments:

- · Set and adjust the header flex and float.
- · Set the ShatterGuard reel positioning.
- · Adjust the reel finger positioning and reel drive chain tension.
- · Add and remove end divider cones.

#### **B** Easy Adjustments

You'll be ready to go as soon as the crop is with the FD2's easy adjustments.

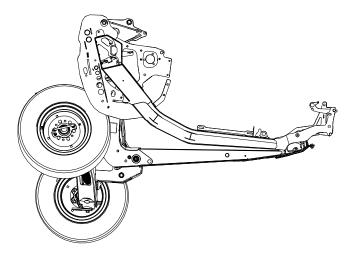
Easy adjustments include:

- Easy to follow decals and adjustments to set the flex and float.
- Easy access to the reel drive chain tensioner; just flip off the cover and use the Set-It-Right Multi-Tool to adjust.
- Now standard for the FD2, in-cab on-the-go side draper speed control.
- Easily switch from a flex to a rigid frame header with the flip of a lever.

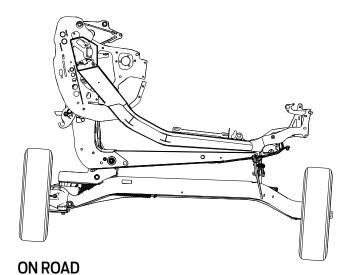
#### Quick Latch End Divider System

MacDon's Quick Latch End Divider System allows you to hook and connect your divider in one move, whether you're using standard rod dividers, rice dividers, or  $VertiBlade^{TM}$  Vertical Knives. The standard divider rods store onboard, and there is an optional onboard divider cone storage available too.

### **EASE**



#### **IN-FIELD**



#### **EasyMove™ Transport**

MacDon's EasyMove<sup>™</sup> Transport System makes it faster than ever to move your FD2 Series FlexDraper® from field to field. This Performance Option is entirely self-contained on the header and allows transport at speeds up to 32 km/h (20 mph)\*\*. Machines equipped with this option can also use the transport wheels in-field to stabilize the header.

- \*Some products and/or options may not be available in all markets. See your MacDon Dealer for availability.
- \*\*Always follow local traffic laws and regulations.





# MORE

# **Get Ready for More.**

The FD2 FlexDraper® is the evolution of the ground following innovation MacDon first brought to market almost 20 years ago. Like we did then, we listen to and work with you, the farmer, in the most challenging real-world conditions. What does that mean for you? More. More sizes, more durability, more harvesting innovations. So, in case you're not convinced yet, here are a few more reasons why the FD2 is the right investment for your operation!





# MORE

#### **The Right Size for Your Operation**

New for the FD2 is a 50 foot header size, making the FD250 the highest capacity FlexDraper® yet, but the new offerings don't stop there; controlled traffic farms are covered with the 41 foot double reel FD2\*.































#### **Aluminum Components**

From a glance, the most noticeable design cue on the FD2 is the addition of aluminum components. Aluminum features include reel endshields, reel sectors, and backsheets. But these components aren't just for looking good; they help reduce the overall weight of the header, improving efficiency without compromising strength.

#### **Clean Sweep Crop Keeper System**

You can't be the harvesting specialists without being serious about harvesting; that's why MacDon added a bunch of little extras onto each FD2 to keep the crop moving in the right direction, into the combine and onto your bottom line.

Standard on all FD2 models, the Clean Sweep Crop Keeper System includes:

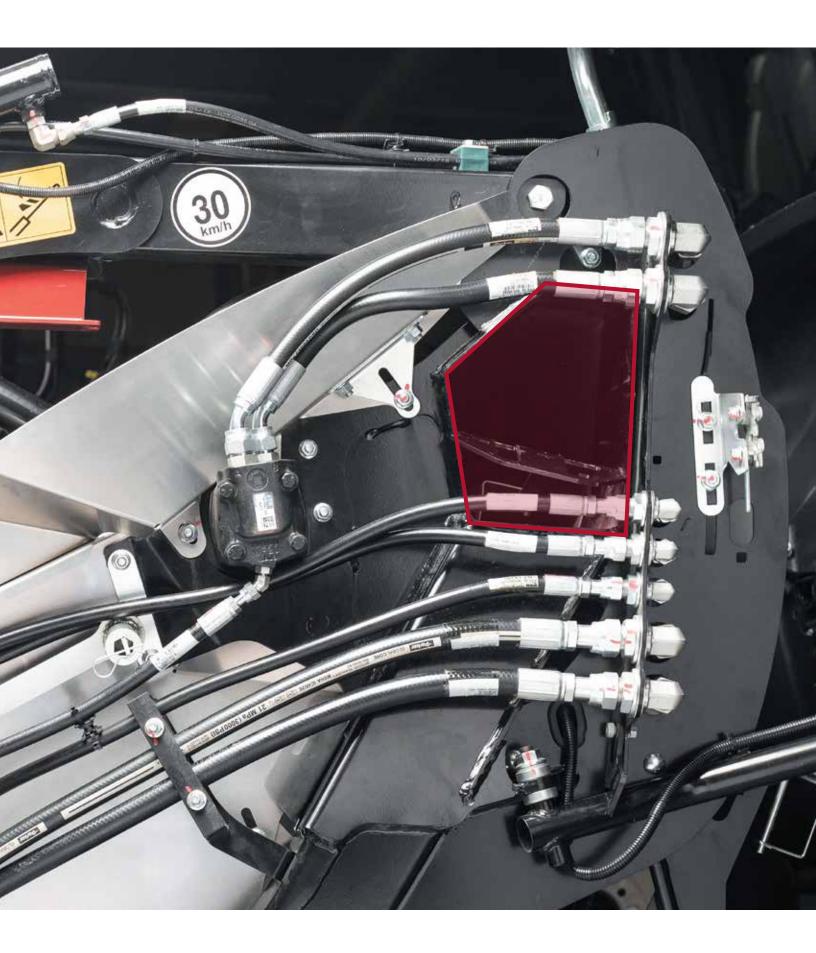
- Angled reel fingers and tines on the reel ends.
- B Reel endshield crop paddles.
- Reel endshield crop deflectors.
- Inner endshield crop deflector fingers.



#### **Durability**

The MacDon brand always has and always will stand for reliability; that's what makes MacDon the preferred choice of more custom harvesters and high-volume operations around the world. Engineering rock-solid products is how we ensure this reliability, and the FD2 carries that tradition forward. The FD2 boasts an all-new frame that features a super structured five-sided back tube. This solid backbone creates a durable platform to handle the increased capacity needs from 50 inch deep drapers\*.

<sup>+</sup> 127 cm (50")



# **SPECIFICATIONS**

FD2 FLEXDRAPER® SPECIFICATIONS						
Size*	9.1 m (30')	10.6 m (35')	12.2 m (40')	12.5 m (41')	13.7 m (45')	15.2 m (50')
Weight** Single Knife Drive	3701 kg (8160 lb)	2900 kg (8600 lb)	4050 kg (8928 lb)	-	-	-
Weight** Double Knife Drive	-	3985 kg (8786 lb)	4133 kg (9113 lb)	4328 kg (9542 lb)	-	-
Weight ** Double Knife Drive with Triple Reel	-	-	4283 kg (9442 lb)	-	4635 kg (10218 lb)	4853 kg (10699 lb)
Knife: Type / Drive / Speed/ Guards	Single or Double knife / Hydraulic, MacDon design enclosed oil bath knife drive box(es) / 1200-1400/1500 spm, varies depending on header size / ClearCut™ Pointed Guards - Forged and Double Heat Treated (DHT) with Forged, Single Bolt Adjustment Hold-Down; ClearCut™ PlugFree™ Short Guards - Forged and Double Heat Treated (DHT) with Forged, Dual Bolt Adjustment Hold-Down					
Reel: Type / Drive / Speed / Fingers	Pick-up reel, five bats, two-piece (double) or three-piece (triple), 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	1270 mm (50") deep, reversible, rubber skim-coated drapers, double V-guide with tracking, integral seal on leading edge / 0 to 209 m/min (0 to 687 ft/min)					
Standard Features	Fits most current model combines, hydraulic fore-aft reel positioner, hydraulic header tilt, in-cab side draper speed control, cutterbar poly wear plates, auto-header height with header angle and ground pressure indicators					
Field-Installed Options	EasyMove™ Transport System, ContourMax™ Contour Wheels, Upper Cross Auger, VertiBlade™ Vertical Knife, stabilizer wheels, lateral tilt, automatic header height control					

<sup>\*</sup>Product size availability varies by market. \*\*All listed weights are approximations and will vary depending on options installed. Check with your dealer for combine ratings.

Weight includes FM200 Float Module. The FM200 Float Module weighs approximately 1029kg (2270 lb); this number varies by combine model

#### FM200 FLOAT MODULE SPECIFICATIONS

	Center Draper	Feed Auger	
Weight	Approximately 1029 kg (2270 lb), varies by combine configuration		
Size	2000 mm (78.7") width	1630 mm (64.1") width	
Туре	Hydraulic drive (reversible), self tracking rubber coated polyester fabric feed draper with rubber slats	Mechanical drive (reversible), removable retracting fingers with bolt on flighting	
Speed	107-122 m/min (350-400 ft/min), varies with combine brand	191 - 195 rpm, varies with combine brand	
Header Floatation: Type/ Vertical Range/Lateral Range (Tilt)	2 pairs of coil springs, independent adjustment, transport lock-out / 178 mm (7") / 4.8 degrees		

#### FD2 FLEX RANGE

	Standard (Factory) Range	Increased Range**
FD230	165 mm [6.5"] up & 130 mm [5"] down	165 mm [6.5"] up & 165 mm [6.5"] down
FD235	205 mm [8"] up & 130 mm [5"] down	205 mm [8"] up & 205 mm [8"] down
FD240 Double Reel	205 mm [8"] up & 130 mm [5"] down	205 mm [8"] up & 205 mm [8"] down
FD241	205 mm [8"] up & 130 mm [5"] down	205 mm [8"] up & 205 mm [8"] down
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FD245	216 mm [8.5"] up & 216 mm [8.5"] down	
FD250	216 mm [8.5"] up & 216 mm [8.5"] down	

<sup>\*\*</sup>The flex range can be increased by removing the flex limiter, however a greater reel to cutter bar clearance is required. This is a customer configuration; instructions in Op Manual



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

# **GET MORE!**with Performance Parts.

The FD2 FlexDraper® gives you more harvesting performance than ever before, and the best way to keep it performing like a champ is with MacDon Performance Parts! This all-new lineup of MacDon Performance Parts is specifically designed to work with and enhance your FD2's performance. To keep you going in the field, our FD2 Customer Convenience Kits are easy all in one parts kits designed to maximize your uptime.

Check out the newest FD2 Customer Convenience Kits from MacDon Performance Parts...

MORE Performance!

MORE Up-Time!

MORE Convenience!

GET MORE with MacDon Performance Parts!



Scan the QR Code to get your FD2 Performance Parts Guide!



#### **Draper Header Service Kits**

Available in both PlugFree™, and Pointed Guard Versions, Draper Header Service Kits from MacDon are a convenient "First Aid Kit" for your header. These kits contain a selection of high wear parts such as guards, sections, and hardware, and are ideal to have on hand at all times.

See FD2 Performance Parts Guide for full kit contents.

PART#	DESCRIPTION
311789	FD2 POINTED GUARD SERVICE KIT
311790	FD2 PLUGFREE™ GUARD SERVICE KIT

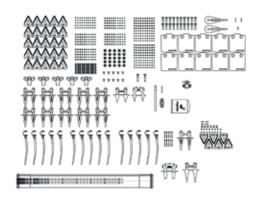


#### Service Kit Plus -

An expanded kit of common wear parts and repair kits, ideal for customers operating multiple FD2 headers, or those who want to maximize uptime. Available for single and double knife drive headers configured with Pointed Guards.

See FD2 Performance Parts Guide for full kit contents.

PART#	DESCRIPTION
340492	POINTED GUARD, SINGLE KNIFE DRIVE
340493	POINTED GUARD, DOUBLE KNIFE DRIVE



#### Knife Assembly Kits

Provides all necessary knife segments and splice kits required to replace the complete knife on a header. Come packaged in 1 box for ease of transportation from dealership to field.

See FD2 Performance Parts Guide for full kit contents.



#### **Guard Kits**

Convenient kits, containing all guards needed for a complete replacement. Come packaged on a small pallet for ease of transportation from dealership to field.

See FD2 Performance Parts Guide for full kit contents.







Trademarks of products are the marks of their respective manufacturers and/or distributors. Specifications and options subject to change without notice. Products subject to availability. Products featured may include available options. **MD-1000H4 FD2 - Documents - Brochure - 2021 - V-04-07-22 Part# 215706**