

R1 FR Front Mount Rotary Disc

MacDon®

Agenda

- Overview
- Position
- Key Features
- Field Feedback
- Frame
- Lift Linkage
- Float
- Forming shields
- Technical specs



Product Overview

Objective:

This program aims to provide a diversified hay product in a niche market by leveraging our current R1 cutting platform to mount to a tractor's front 3-point hitch.



Product Positioning

Why R1 over R2?

- To match with R1 PT in performance, serviceability and manufacturability
- R1 is already mechanically driven – easier to integrate
- R1 is lighter and provides c of g closer to the tractor

Will provide a unique offering to new and existing markets.

1. **Dryland hay and forage customers (FR/PT)**
 - Currently primarily using windrowers and trialling triples
 - Niche solution for customers to increase productivity while maintaining cutting width and spacing
 - Heavy duty option and retention of resale value
2. **Small – Medium hay and forage customers (FR or FR/PT)**
 - Currently using pull types or old windrowers
 - Value in lower cost alternative to expensive windrower
 - Single front mount or front mount with PT
3. **Front mount fits with current PT customers (FR)**
 - Currently using PTs
 - Customers can add a front mount to increase productivity
 - A cheaper alternative to investment of a triple

Benefit for commonality with their current operational set up on 16ft cut width

- It fits with the current border and pivot track spacing.
- Matches windrow spacing to SPW for easier raking and merging logistics
- Consistent dry-down with steel conditioners



Key Features

- It provides an option for multiple markets to increase productivity at a lower cost.
- Modularity and heavy-duty design for NA conditions and retention of resale value over competition.
- Matches current production systems of 16' cut width for easier raking and merging logistics.
- Consistent dry down with steel conditioner option.
- This product enables MacDon to move into other areas of larger header widths.



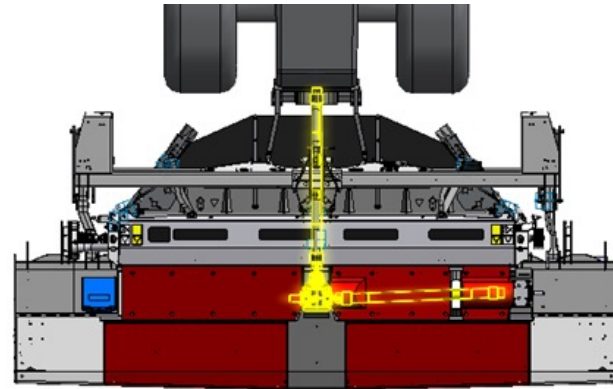
Field Feedback

- To date R1 FR has operated with 15 customers in 9 states/provinces throughout 3 separate field test seasons.
- Survey conducted to operators and customers to compile feedback.
 - Like the same cut widths as their windrowers.
 - Provides versatility in logistics for harvest to maintain spacing.
 - Like build quality and steel conditioner option.
 - Front and back mower commonality is a positive.
 - Option for resale and retained value.
- Issues identified and addressed to date:
 - Ease of operation – front control system logic.
 - This has been improved to operate off one remote and improve robustness of design



Frame

- Carrier frame designed to mount R1 similar to R1 PT
- PTO driven
- Compatible with category 2, 3 and 3N tractors
- Mechanical tilt or hydraulic tilt is optional



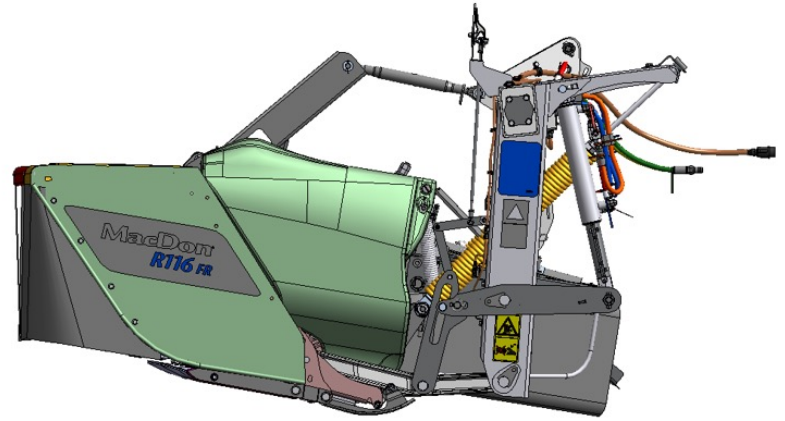
Lift linkage

- Primary lift function performed with tractors 3pt
- Hydraulically controlled auxiliary lift
- Designed to eliminate header sagging on float down stops - Provides slight additional lift
- Automatically controlled with proximity sensors
- Requires one time set up of tractor remotes
 - Auxiliary lift remote flow on
 - 3pt linkage raise lower timed to lower carrier frame to 3.5 – 5.5 inches off ground



Float

- Header float geometry matches PT
- Setting float adjustments matches PT
- Lifts back and up for improved ground following capabilities
- Float indicator to display ground force in cab



Forming shield and curtains

- Baffle and forming shields to adjust windrow size
- Forming curtain across shields to reduce crop build-up and debris on tractor rad
- Adjustments to make narrow windrow down to 5'
- Fits under most tractor tire widths (crop dependent)



Technical specs

Drives		
Gearbox and driveline		
Conditioner Drive - 4HB		
1.375 in. dia. 21 T. PTO	O _b	O _b
1.375 in. dia. 6 T. PTO	O _b	O _b
1.75 in. dia. 20 T. PTO	O _b	O _b
Hydraulic Header Angle Kit		
Double acting cylinder (2 nd hydraulic remote required)	O _b	O _b
Mechanical turbuckle (installed in shipping configuration)	S	S
Transport Lights: two red c/w 7 pole connector	S	S
Transport Width Including header (w/out conditioner or other optional kits)	160 (4063)	198 (5027)
Attachments & Accessories		
Tractor Requirements:		
Power:	75 kW (100 Hp)	93 kW (125 Hp)
Hydraulic Capacity:	2000 psi (13714 kPa)	2000 psi (13714 kPa)
Hydraulic Front Couplers (pairs)		
Base model header (float lockout):	1	1
Base plus hydraulic header angle	2	2
<i>NOTE: TRACTOR MUST BE EQUIPPED WITH A TRAILER CONNECTOR WITH 12V POWER</i>		
<i>NOTE: TRACTOR MUST BE EQUIPPED WITH A CAB</i>		
<i>** Note for Front Rotary and Pull Type double the HP requirement.</i>		

Thank You!

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