



MASSEY FERGUSON

1300 SERIES

DISC MOWER CONDITIONERS

Better hay starts with a more precise cut and condition.



Razoredge™ cutter bar redefines durability.

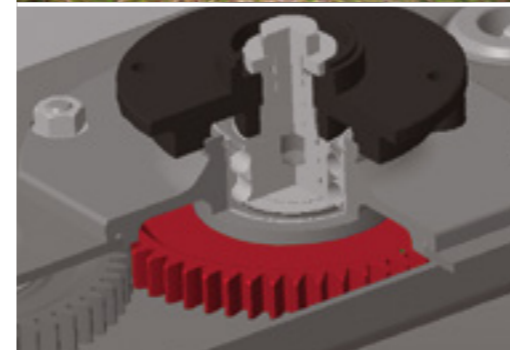


Other unique features of the RazorEdge:

- Adjustable windrow-forming shields and a swathboard allow you to tailor the windrow size and shape—as narrow as 40 inches—to your baling or harvesting needs.
- High-carbon steel knives available in a choice of degrees and bevels to match crop and field conditions.
- Counter-rotating discs with increased overlap that provide improved cut quality while minimizing crop streaking.
- Sloping disc hub mounts to help reduce debris and twine buildup.
- Ductile cast iron conditioner roll gearboxes for maximum durability and power transfer.
- Bolt on rock guards to provide replaceable cutterbar protection.
- Swivel gearbox and support arm that move with the tongue to keep the driveline components in-line, for exceptionally smooth operation.

THE MF1376

If you're looking for a commercial-grade disc mower conditioner, look no further than our MF 1376 model with our patented RazorEdge™ header. The modular, heavy-duty design is super durable, virtually eliminating costly downtime. Not only do the wide-profile teeth offer increased gear-to-gear contact, but the entire drivetrain is designed to handle maximum load at all times. An industry exclusive, the RazorEdge™ header's sealed bearings don't require constant lubrication, no matter the slope of the terrain. Should the worst happen, the gear spindle will shear outside the cutter bed, keeping contamination away from the gears.



The RazorEdge cutter bar's design allows each gear assembly and adjacent idler gear to be individually removed without disassembly of the cutter bar. The spur gear design also provides a thinner profile, allowing closer cutting with less scalping.

The internal spur gears offer 2.5 teeth contact at all times to transfer high torque and seamless power throughout the entire cutter bar. Gears are forged in house at the AGCO Power Foundry.

The high-clearance mainframe provides an exceptional header lift height of 20 inches for better clearance over headland windrows. The added height also allows the header to be easily carried over obstacles, ditches and waterways.

Disc mower speed meets center-pivot maneuverability.



A constant-velocity mechanical driveline, coupled with your choice of a three-point or drawbar-mounted swivel hitch, provides smooth power transfer and turn-on-a-dime maneuverability.



Hydraulic conditioning roll tension on the 1393 & 1316S. This is the first pull-type design to have this system.

The MF 1393 and 1316S:

Slice through tough, tangled crops at speeds that can only be attained with a rotary disc machine and the maneuverability that the MF 1300 Series center-pivot models can provide. Choose the MF 1393 with its 13-foot cutting width, or step up to the MF 1316S with its 16-foot cutter bed.

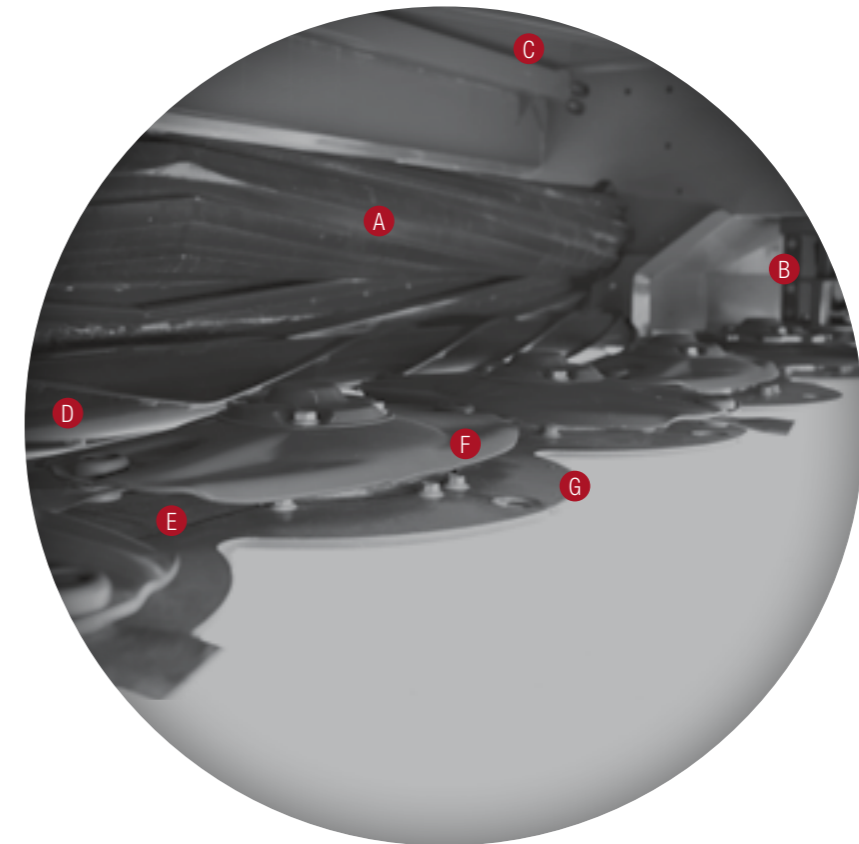
Both models feature industry-exclusive hydraulic conditioning roll tension, engineered to deliver consistent quality hay, resulting in a high-nutrient crop that's more palatable and more valuable. A heavy-duty rear arch frame provides exceptional support and header lift of 18 inches for better clearance over headland windrows as well as ditches and waterways. Everything about this rugged, high capacity mower series is designed to give commercial operators reliable, trouble-free performance season after season.

The herringbone steel-on-steel or rubber-on-steel conditioner rolls are powered by individual roll-drive shafts and an oil-lubricated drive gear case that reduces roll drive maintenance.

Add it all up and you've got unmatched reliability coupled with performance that is synonymous with the Massey Ferguson name.

Performance always comes standard.

No matter which MF 1300 Series center-pivot disc mower conditioner you choose, you can be assured of quality performance, thanks to impressive features you won't find on most competitive machines.



- A Herringbone conditioner rolls** Extra-wide, 110-inch conditioner rolls increase the capacity of the header and allow the crop to be distributed into a thinner mat for more uniform conditioning.
- B Cage crop conveyors** Rotating cages at each end of the cutter bed help convey crop material to the conditioner rolls while preventing crop material from wrapping on the cutter bed driveshaft.
- C Top shield protector** Tough poly panels on the underside of the header shields absorb the impact of rocks and debris to keep the sheet metal from being dented, scraped or exposed to rust.
- D Turbulence reduction roll** A turbulence reduction roll, or helper roll, located between the conditioner rolls and the cutter bed allows the conditioner rolls to be positioned farther back, improving performance in light crops and assisting crop flow in dense, heavier crops.
- E Pre lubricated, sealed bearings** Pre lubricated bearings provide a longer life, while substantially reducing maintenance, compared to cutter beds that require regular oil checks.
- F Cutter bar** High tooth-to-tooth contact at all times allows the cutter bar to evenly transfer power throughout the cutter bar and helps protect the cutter bar against foreign objects.
- G Rock guards** Smooth-profile rock guards, integrated into the cutter bed, reduce mud buildup, while protecting the disc and knives from rocks and other obstructions.



Steel-on-Steel Rolls Designed to meet the needs of custom and commercial operators, steel-on-steel rolls feature a herringbone pattern that provides long-lasting durability while evenly distributing crop material across the full width of the rolls. They're also the best option for alfalfa, since they crimp the stems, for faster drying while maintaining leaf quality.



Rubber-on-Steel Rolls These rubber-on-steel conditioner rolls are fully engaged to crimp plant stems along their entire length so stems dry at the same speed as the leaves.



Rubber-on-Rubber Rolls Featuring a herringbone tread pattern that helps improve windrow formation, our rubber-on-rubber rolls are designed for those who prefer more crushing-type conditioning action. The shallow lugs minimize leaf damage compared to deep-lug urethane rollers that tend to scuff the crop and damage the leaves.



Tine Conditioner A good choice for grass hay, the tine conditioner uses tines, spinning at high RPM, to effectively condition the crop and force it to rub against the conditioning panel. This, in turn, scuffs the waxy coating from the plant stems, allowing them to dry faster.

Customized performance

Massey Ferguson 1300 Series disc mower conditioners are built to handle nearly any type of material or challenge, but certain situations call for additional equipment. That's why we offer all the options you could ever need to match your specific cropping program.

These include:

- Topping skids and/or skid shoes for additional ground clearance.
- A hydraulic header tilt on select models for on-the-go cutter bar angle adjustment.
- Filler pan kit (1393–1316S only) for enhanced performance in tall-stalk or biomass crops.



MODEL	1376	1393	1316S
Dimensions and Weights			
Width of cut: ft. (m)	9.8 (3.0)	13 (3.9)	16 (4.8)
Overall width: ft. (m)	9.8 (3.0)	13.25 (4)	16.25 (4.9)
Weight: lbs. (kg.)	5,050 (2,291)	6,660 (3,020)	8,150 (3,697)
MAINFRAME AND HEADER			
Pull/Pivot	Center		
Header lift range: in. (mm)	20 (510)	18 (457)	
Header flotation Radial and vertical with adjustable springs	Radial and vertical with adjustable springs		
Tires	11L-15, 31 x 13.5-15 (Opt.)	31 x 13.5 x 15	
CUTTER BED			
Cutter bar design	Spur gear—RazorEdge		Spur gear—RazorEdge
Cutting height: in. (mm)	1.25 to 3 (32 to 76)		1.25 to 3 (32 to 76)
Cutter bar operating range	0° to 6°		0° to 6°
Number of discs	6	8	10
Number of knives	12 (2 per disc)	16 (2 per disc)	20 (2 per disc)
Drive	3B powerband/gearbox		2B banded belt
Disc speed: RPM	2,200		2,450
Knife tip speed: mph (km. / hr.)	163 (260.7)		178 (287)
Knives	Swing-away, reversible		Swing-away, reversible
CONDITIONER			
Roll type	Herringbone steel-on-steel, Tine conditioner		Herringbone steel-on-steel or rubber-on-steel
Length: in. (mm)	73 (1,854)		109.8 (2,790)
Speed: RPM	1,045		1,037 1,215
Drive	U-joint drivelines from gearbox		
DIAMETER			
Upr. Rubber-on-Steel roll: in. (mm)	NA		8 (203)
Upr./Lwr. Steel-on-Steel roll: in. (mm)	8.2 (209)		7.7 (196)
Rubber-on-Rubber roll: in. (mm)	8.0 (203)		NA
Roll Speed: RPM	1,045		1,037 1,215
Less conditioner Opt.	NA		Opt.
Tine conditioner Opt.	NA		Opt.
Tine conditioner diameter: in. (mm) 18 (462)	NA		18 (462)
Number of double tines 40	NA		40
Tine speed: RPM 1,056	NA		1,056
WINDROW WIDTH			
Windrow formation max.: in. (mm)	73 (1,854)		96 (2,438)
Windrow formation min.: in. (mm)	42 (1,067)		40 (1,016)
TRACTOR REQUIREMENTS			
Min. PTO: horsepower (kW)	75 (56)		100 (75) 120 (89)
PTO speed	540		1,000
Hydraulics	1 DAV; 1 SAV		2 DAV



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