

# Wheel Rakes

FRONTIER



WR30 • WR31 • WR12

# All-purpose raking for a broad variety of hay conditions.

Handle just about any hay condition with the **Frontier**

**WR30 Series Carted Wheel Rakes.** The WR30 Series is aggressive enough to pick up tough crop, but gentle enough to maintain the hay's nutritional value. You get full, nutrient-rich hay that's ready for baling. Available in 8-, 10-, and 12-wheel models, there's a hay rake perfect for your haymaking chores.

The WR3008 is equipped with 8 wheels and provides a 15- to 19-foot raking width to handle your small haymaking chores. And with an 8-foot 6-inch transport width, the WR3008 is easy to maneuver through narrow gates.

The WR3010 features a 10-wheel design and gives you an 18- to 22-foot raking width for increased productivity. This implement is great for owners whose land requires a bigger rake.

Or to cover even more acres, check out the WR3012 with a 20 to 24 foot raking width. Featuring 12 productive wheels, the WR3012 helps you make the most of your haymaking time.

The economical WR30 Series offers tremendous versatility to adapt to each job. Work over rough or uneven terrain. Collect hay from multiple types of crop. Get thick, consistent windrows for more compact bales. Tackle moist crops quickly and efficiently for faster drydown – these tools do it all. Hook the WR30 Series up to your tractor with a minimum of 30 horsepower and take advantage of superior raking.

The Frontier Carted Wheel Rakes are sold and supported by John Deere, a trusted name in farm, ranch and lawn equipment. To help you choose the right Frontier Carted Wheel Rake, talk to your local John Deere dealer, your exclusive source of Frontier Equipment.

## Right Rakes For The Job



The WR30 Series Carted Wheel Rakes feature 15 to 24 foot raking widths for gentle, efficient windrowing. Each model folds 9-feet 6-inches wide or less for easy transporting and convenient storage.



The WR30 Series comes in 8-, 10-, or 12-wheel options. With 55-inch wheel diameters and 40 rugged, steel tines per wheel, you get fluffier, more-even windrows for better quality bales.

## Details – WR30 Series Carted Wheel Rakes



5. With the adjustable rake wheel down-pressure spring, you can match the rake to your crop conditions. Use less down-pressure for light hay or more down-pressure for heavier hay. By minimizing down pressure, you extend the life of your rake tines and decrease the amount of debris collected in your windrow.



1. Standard clevis hitch-link allows you to adjust the rake to the drawbar height of your tractor. Maintaining a level frame provides uniform weight distribution on the front and back rake wheels for equal ground pressure. Safety chain comes standard.



2. Change your working width by sliding the rake beam in or out. Adjusting the working width also lets you easily adjust the width of the windrow for your baler.



3. Field adjusting the angle of the rake beam for varying hay conditions is simple thanks to this pin adjustment and turnbuckle screw. Angle the rake beam to collect a greater volume of hay.



4. Raise and lower the rake wings using the single-acting hydraulic cylinder – all from the convenience of your operator's seat.

# All-purpose raking for your crop conditions

Handle just about any hay condition with the **Frontier WR31 Series**

**High-Capacity Carted Wheel Rakes.** The WR31 Series will handle a wide variety of crop conditions, while maintaining your crop's nutritional value. You get full, nutrient-rich hay that's ready for baling. Available in 8-, 10-, and 12-wheel models, the WR31 Series gives producers exactly what they are looking for in a high-capacity rake.

- **"Kwik Pik" system.** This hydraulic system completely raises all rake wheels on both rake arms simultaneously when making a turn for a cleaner windrow all the way to the end for your baler and less crop left in the field.
- **Large raking wheels.** Standard 60 inch rake wheels turn more slowly and are more gentle on crops, reducing leaf loss.
- **Flexibility in the field.** The rake arm pivot joints and rake wheel pivot joints provide flexibility over uneven ground conditions.
- **Easy adjustments.** Field adjustments to windrow width and down pressure are easy to make with simple tools.

The WR3108 is equipped with 8 wheels and provides a raking width of 15 - 19 feet (4.57 – 5.79 m) to handle your smaller haymaking chores. And with a transport width of 10 feet (3.1 m), it's easy to maneuver through gates.

The WR3110 features a 10-wheel design and gives you a raking width of 18 – 22 feet (5.5 – 6.71 m) for owners who require a bigger rake.

Or to cover even more acres, check out the WR3112 with a raking width of 20 - 24 feet (6.1 – 7.32 m). Featuring 12 productive wheels, the WR3112 helps you make the most of your haymaking time.

The WR31 Series offers tremendous versatility to adapt to each job. Work over rough or uneven terrain. Tackle moist crops quickly and efficiently for fast drydown. Get fluffy, consistent windrows for making compact bales. These tools do it all.

The Frontier WR31 Series High-Capacity Carted Wheel Rakes are sold and supported by John Deere. To help you choose the right Frontier High-Capacity Carted Wheel Rake, talk to your local John Deere dealer, your exclusive source of Frontier Equipment.

## Take a closer look

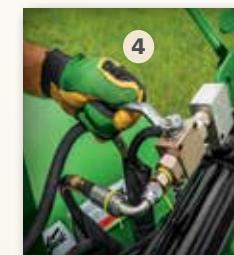
One glance at the WR31 Series High-Capacity Carted Wheel Rakes, with their 8, 10, or 12 high-capacity wheels, shows that Frontier means business. A closer look reveals design elements that may seem minor, but can have a major impact on raking speed, volume and convenience.



1. Choose 8, 10, or 12 rake wheels to match the capacity you need.
2. Operators can easily raise either the left or right side for one-arm raking. One side only raking is possible by folding both arms, locking one arm in transport position by closing its hydraulic lock-out valve, then lowering the other arm.
3. Transport widths from 10 to 12 feet (3.05 to 3.66 m), depending on model, provide easy transport and convenient storage.
4. For transport, just fold up both rake arms, secure the optional center kicker wheel and close the two hydraulic lock-out valves.
5. A 10-point adjustable hitch allows you to easily make the rake level with your tractor's drawbar.



6. Only one SCV is required to provide positive pressure for both raising and lowering the rake arms.



7. Ten width adjustment points are available on each rake beam.

8. Use the rake hitch jack to adjust windrow width. Place the jack on top of the rake beam as shown. Remove the pin and clip, use the hand crank to move the rake arm, and replace the pin and clip.



9. The rake wheel pivot joint provides flexibility for the rake wheels when working in uneven field conditions.



10. The rake arm pivot joint provides flexibility for the rake arm over uneven ground.



11. An easily adjusted fine tune spring varies the down pressure on each rake arm.



## Key features



The WR31 Series uses 60 inch rake wheels. The larger size allows the rake wheels to turn more slowly without diminishing ground speed. This slower raking action is gentler on your crop resulting in less leaf loss.



12. An optional center kicker wheel turns the center of the windrow for a fluffier, more even windrow, and helps speed drydown.



13. Two hydraulic cylinders provide positive pressure for raising and lowering both rake arms.

14. Each hydraulic lock-out valve is closed for transport, and opened to unfold into operation position.

## "Kwik Pik" System



Perhaps the most exciting feature on the WR31 Series is the "Kwik Pik" system that completely raises all the rake wheels on both rake arms simultaneously when making a turn. That means a cleaner windrow all the way to the end for your baler and less crop left in the field.



A dedicated hydraulic cylinder located under the rake cart provides the hydraulic lift for the "Kwik Pik" System. When engaged by the operator, it lifts the rake cart, and thus the rake arms, so all rake wheels clear the ground at the same time.

# Faster haymaking, higher-quality bales start with Frontier

**Frontier 12 Series Wheel Rakes** put your haymaking in high gear. Available in high-capacity models with 12, 14, and 16 wheels, there's a Frontier Wheel Rake that's just right for your acreage and haymaking demands.

Frontier Wheel Rakes give you greater hay-handling versatility. For example, a simple adjustment lets you increase windrow height for more air circulation and faster drydown. You'll get uniform windrows for better baler performance and more consistent bales.

With 40 teeth per wheel, these rakes handle crop gently with less leaf loss. What's more, Frontier Wheel Rakes have wide, stout teeth, making it easier to fluff and fold crops weighed down by rain or dew.

These Frontier Wheel Rakes are built with a heavy-duty frame reinforced with truss beams for durability. Each model folds to 8 feet (2.4 m) wide, allowing for easy transport and convenient storage.

Frontier Wheel Rakes are backed with a one-year warranty<sup>1</sup> and one of the best dealer networks in the industry – John Deere. To help you choose the right Frontier Wheel Rake, see your John Deere dealer, your exclusive source of Frontier Equipment.



Frontier High-Capacity Wheel Rakes effectively handle heavy crops on rough terrain. Choose models with 12, 14, or 16 wheels.



Frontier High-Capacity Rakes open and close hydraulically. Transport widths are 8 feet (2.4 m), making it easy to negotiate narrow roads and gates. Transport lights are standard on WR1214 and WR1216.

[www.BuyFrontier.com](http://www.BuyFrontier.com)

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<sup>1</sup> Hour and/or usage limitations may apply. See Warranty for new John Deere Agricultural Equipment or contact your local dealer for details.



4. A crank located at the rear of the rake makes it easy to adjust windrow width. If your operation outgrows your 14-wheel rake, additional wheels can be added to increase your raking width up to 32 feet.



5. Optional rake-wheel wind panel is available for all Frontier Wheel Rakes.



1. Rugged frame designed to eliminate frame twisting for long-lasting performance. It is reinforced with truss beams for greater rigidity, strength, and durability.



2. Rake wheels float independently for smooth raking. Offset tandem wheels provide a smooth ride, even over irrigation tracks (offset tandem wheels are standard on WR1214 and WR1216; optional on WR1212). An adjustable brake band on the front spindle keeps gauge wheels from spinning when raking rough ground (15 inch front rake-beam support wheels are optional on WR1214 and WR1216).



3. All high-capacity models have a wide-open rear frame that lets the largest windrows pass through with ease. Easily fine-tune your ground pressure to fit various raking demands.



## Specifications

### WR30 Series Carted Wheel Rakes

### WR31 Series Carted Wheel Rakes

### WR12 Series Wheel Rakes

Model	WR3008	WR3010	WR3012	WR3108	WR3110	WR3112	WR1212	WR1214	WR1216
Number of rake wheels	8	10	12	8	10	12	12	14	16
Wheel diameter	55 in. (139.7 cm)	55 in. (139.7 cm)	55 in. (139.7 cm)	60 in. (152.4 cm)	60 in. (152.4 cm)	60 in. (152.4 cm)	55 in. (140 cm)	55 in. (140 cm)	55 in. (140 cm)
Teeth per wheel	40	40	40	40	40	40	40	40	40
Tooth diameter	.28 in. (7 mm)	.28 in. (7 mm)	.28 in. (7 mm)	0.3 in. (7.5 mm)	0.3 in. (7.5 mm)	0.3 in. (7.5 mm)	0.28 in. (7 mm)	0.28 in. (7 mm)	0.28 in. (7 mm)
Raking wheel hubs	Tapered bearing	Tapered bearing	Tapered bearing	Tapered bearing	Tapered bearing	Tapered bearing	Tapered bearings	Roller bearings	Roller bearings
Transport width	8.6 ft. (2.62 m)	9.5 ft. (2.92 m)	9.5 ft. (2.92 m)	10 ft. (3.05 m)	10.66 ft. (3.25 m)	12 ft. (3.66 m)	8 ft. 1 in. (2.4 m)	8 ft. 6 in. (2.59 m)	8 ft. 6 in. (2.59 m)
Transport length	13 ft. (3.96 m)	15.5 ft. (4.75 m)	18 ft. (5.49 m)	17 ft. (5.18 m)	19 ft. (5.80 m)	21.5 ft. (6.55 m)	24 ft. 6 in. (7.5 m)	27 ft. 3 in. (8.3 m)	30 ft. 3 in. (9.2 m)
Windrow width adjustment	3 - 5 ft. (.91-1.52 m)	4 - 6 ft. (1.22 - 1.83 m)	4 - 6 ft. (1.22 - 1.83 m)	36 - 60 in. (91.44 - 152.4 cm)	48 - 72 in. (121.92 - 182.88 cm)	48 - 72 in. (121.92 - 182.88 cm)	38 - 58 in. (.97 - 1.47 m)	42 - 63 in. (1.07 - 1.6 m)	42 - 63 in. (1.1 - 1.6 m)
Raking width	15 - 19 ft. (4.57 - 5.79 m)	18 - 22 ft. (5.49 - 6.71 m)	20 - 24 ft. (6.10 - 7.32 m)	15 - 19 ft. (4.57 - 5.79 m)	18 - 22 ft. (5.49 - 6.71 m)	20 - 24 ft. (6.10 - 7.32 m)	Up to 24 ft. (7.32 m), hydraulically set	Up to 28.4 ft. (8.65 m) hydraulically set	Up to 34.4 ft. (9.87 m) hydraulically set
Number of wheels (tires)	2	2	2	2	2	2	4	6	6
Tires	ST175/80D13	ST175/80D13	ST175/80D13	205/75-15	205/75-15	205/75-15	6.7 x 15 in. (17 x 38 cm)	6.7 x 15 in. (17x38 cm)	6.7x15 in. (17x38 cm)
Hitch jack	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Center kicker wheels	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Gauge wheels	NA	NA	NA	NA	NA	NA	15 in. (38 cm)	15 in. (38 cm)	15 in. (38 cm)
Weight	1125 lb. (510 kg)	1275 lb. (578 kg)	1440 lb. (653 kg)	1400 lb. (635 kg)	1670 lb. (757 kg)	1860 lb. (844 kg)	3,500 lb. (1588 kg)	3,800 lb. (1724 kg)	4,200 lb. (1905 kg)
Hydraulic requirements	1 single acting remote for raising wing 1 double acting remote for optional 2nd hose kit			1 SCV	1 SCV	1 SCV	2 SCV	2 SCV	2 SCV

Note: models/items may not be exactly as shown. Hour and/or usage limitations may apply. See Warranty for new John Deere Agricultural Products or contact your local dealer for details.

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