



2019 *RAKES*



It's a simple fact — the better you rake, the better you bale. That means shaping the best possible baler-ready windrows to attain the best possible moisture level and consistency, top-to-bottom and side-to-side.

But that's only part of the solution. As demand for high-production hay harvesting continues to grow, many hay producers face the challenge of managing larger farms with fewer operators in the midst of varying weather conditions. As a result, in many instances the window of opportunity for hay harvesting has never been smaller.

Because of that, Vermeer has spent the last decade reshaping and re-designing its full line of high-capacity and carted wheel rakes (VR-series) and high-efficiency twin basket rakes (R-series) with innovations and upgrades to meet tomorrow's challenges. Inspired by four key objectives — high-capacity performance, speed, durability and operator conveniences, these solutions are not only innovative but also practical and cost-effective.



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The Vermeer R-series twin basket rakes (R2300 and R2800) are for customers who need to cover a lot of acres in a short period of time. Built for performance and durability, these machines help achieve faster dry down and make tightly rolled bales that preserve quality, shed water and transport more conveniently. They're designed to rake heavy and wet crops while introducing less ash content into the new windrow. From the millions of acres they have raked, these machines have a track record of strong resale values.

From end to end, every design detail was devised to help give you the performance you need, including hydraulically controlled raking widths, windrow widths, basket lift (R2300 twin basket rake) and fold/unfold functions. Optional powered splitters rake the center of the swath, so you can sweep the whole rake width and get maximum consistency throughout the windrow.

Maximum raking widths:

R2300 – 23 ft (7 m)

R2800 – 28 ft (8.5 m)

- 1** R2300 and R2800 twin-basket rakes are equipped with rubber-mounted teeth that are known for their strength and durability.



R2300/R2800 TWIN BASKET RAKES



- 2** Fast and convenient transport. Hydraulic control from the cab allows you to navigate narrow gate openings and country roads with transport widths of 8.4 ft (2.6 m) on the R2300 and 8.5 ft (2.6 m) on the R2800.
- 3** All of your hay can get turned and windrowed with the optional powered splitters that spread hay in the center of the swath, allowing you to combine it with the rest of the crop. This helps improve moisture control and consistency throughout the entire windrow.

Whether you're baling 500 acres or 5,000 acres, Vermeer R-series twin basket rakes are built for durability and to help hold value. In fact, they can help produce better bales because they prepare clean, box-style windrows matched to the baler pickup — regardless of the type of baler you operate.

Take the Vermeer R2300 twin basket rake, for example, it's built for high capacities with 18 ft - 23 ft (5.5 m - 7 m) raking widths and adjustable windrow widths from 3 ft - 6 ft (.9 m - 1.8 m) and is designed for speed, efficiency and convenience. It can help get you in and out of the field quickly, because you don't have to leave the tractor when it's time to fold or unfold the twin baskets — or to adjust raking widths or windrow widths.

R2300/R2800 TWIN BASKET RAKES



1 Change rake/windrow widths hydraulically to help maximize raking efficiency and custom-shape the windrows to your baler pickup. Optional basket speed control (only available on the R2300) also allows you to adjust the raking action of the baskets for different crops and conditions.



- 2 Customize your windrows. Angle the baskets and adapt to your raking environment by producing tight windrows to slow dry down — or create loose, fluffy windrows and increase airflow to quicken dry down.
- 3 East of maintenance. Rugged, reinforced frames with round cross-section toolbars and grease-free windrow width slide adjustments. Optimized production in the field. Convenient to maintain.
- 4 Big capacities. Six bar baskets on the R2300 (seven bar on the R2800) mean more sweeping action, especially in high-volume conditions. Rubber-mounted tines can help reduce maintenance and service time.

Want high capacity, speed and the reliability to handle more acres in less time, all with fewer maintenance issues? Check out the VR1428 and VR2040 high-capacity wheel rakes from Vermeer. These are the rakes you need, especially at the height of the haying season — when crops are heavier, windows of opportunity are tighter and the pressure to perform is greater.

The VR1428/VR2040 high-capacity wheel rakes combine streamlined design and functionality with tool-free adjustments. And with the VR2040 unique center splitter attachment, you are now able to cover the entire swath up to 40 ft (12.2 m) wide.

Bigger rakes also need to be strong rakes. Check out the non-telescoping, non-bolted joint straight tongue; the three-pivot rear toolbar and one-piece rake arms; and the patented rake wheel lift and suspension system. It all means more time in the field and less to worry about when you're in the middle of hay season. The Vermeer VR1428/VR2040 — this is what high-capacity and high-performance raking is all about.

Maximum raking widths:
VR1428 – 28 ft (8.5 m)
VR2040 – 40 ft (12.2 m)

VR1428/VR2040 HIGH-CAPACITY WHEEL RAKES

With a lift/suspension cylinder on each wheel and the nitrogen-charged accumulator, adjusting rake wheel pressure is efficient. Change pressure settings using a valve. This suspension system minimizes weight changes through the wheel float range. It also means less wear and tear on rake wheel teeth and less dirt and rocks in your hay.



1 With automatic field transport locks, the operator can engage and disengage the transport lock without leaving the tractor. The field transport locks will automatically lock when folding in, and can be disengaged by pulling a rope from the tractor seat.



- 2 Unique rake design featuring one-piece rake arms in conjunction with hydraulic suspension on each rake wheel provides rake flexibility with less maintenance than similar-sized rakes that require a pivot joint and additional caster wheel in the middle of the rake arm.
- 3 Just because they are larger, doesn't mean they are necessarily harder to maneuver. The VR1428/VR2040 handle like many smaller-capacity rakes because of the way the rear wheels are closely positioned to the tractor when operating in the raking position.
- 4 The frame design of the VR2040 gives operators the ability to flex 40 in (101.6 cm) down or 66 in (167.6 cm) up, equating to a range of motion of over 8 ft (2.4 m), offering maximized vertical travel capabilities and flex. The VR1428 flexes 36 in (91.4 cm) down or 48 in (121.9 cm) up.

Raise your wheel rake expectations with the VR-series carted wheel rakes from Vermeer, and get the strength, wide-stance balance, reliability and versatility you need for a heavy diet of haying, starting with the very first cutting.

Select an 8- 10- or 12-wheel size to fit your operation and capacity needs. Each one features tool-free adjustments for user-friendly setup and adjustment. Patented rubber torsion suspension design allows you to change pin settings to handle different crops and conditions — the same is true when it’s time to reset windrow widths. High-clearance frames and toolbars allow you to handle heavy, high-volume crops while also creating maximum clearance for the tires in all rake width settings. And, when it’s time to set raking/ windrow widths, the rake angle toolbars make it quick and convenient.

Plus, with Vermeer VR-series rakes, you’re able to turn the swath using a uniquely designed center splitter attachment (optional). This not only helps you accelerate dry down, it also creates consistent moisture levels throughout the entire windrow.

VR820/VR1022/VR1224 **CARTED WHEEL RAKES**

High-clearance frames keep you in the cab by allowing heavy crops to pass under the toolbar for smooth, consistent, hassle-free raking. Specially designed J-tubes support each wheel pair and are bent upward to accommodate bulky, first cuttings.



1 The optional center splitter’s dual, angled, ground-driven rake wheels gently lift and turn the crop in the center. If the center crop does build up, the splitter’s rake wheels push up and back to allow the crop to pass through. The splitter also lifts and locks for transport and can be conveniently raised and lowered when turning tight corners.



2



3



4



5

- 2** Vermeer wheel rakes offer user-friendly adjustments without tools needed. Where as many other rakes, industry-wide, require tools to make those same adjustments. Adjust windrow widths and arm angles by resetting pin positions. Adjustments do not need to match on both sides of the rake. You can customize your raking angles and windrow widths.
- 3** Rubber torsion toolbar suspension lets you adjust rake wheel down pressure to match crop volume and conditions. This feature helps create clean, better-defined windrows and reduce wear and tear on raking tines. Again, no tools are needed to handle the simple pin-setting adjustments.
- 4** Transport made convenient. Flat-folding rake wheels reduce height and center folding toolbars reduce width. Hydraulic locks secure the frame. Dual hydraulic lift cylinder pickup arms. Greaseable, tapered roller bearings on both rake wheels and transport wheels help extend bearing life.
- 5** Single-side raking. Select left- or right-side raking configurations. Enable this feature in seconds without using any tools.

Rake fast and efficiently, in wet or dry hay, with the RR140 rotary rake from Vermeer. This versatile, side-delivery rotary rake is designed for operators focused on both speed and hay quality in a variety of crops, and who want a light, fluffy windrow with minimal crop roping. The RR140 rotary rake has a maximum raking width of 13.8 ft (4.2 m) with a low 40 hp (29.8 kW) tractor requirement, making it ideal for small and mid-size operations.

Each of the 11 arms are equipped with four double tines, providing uniform raking actions that gently stir the hay for faster drying times, without the loss of foliage to maintain the nutritional value of the crop. Hydraulic adjustments keep the tines off the ground, minimizing ash content in the windrow, all from the seat of the cab.



- 1

The RR140 rotary rake is capable of making windrows at a minimum of 16 in (40.6 cm) wide and up to 3 ft (.9 m) wide, depending on the volume of the crop. With 11 arms, each equipped with four double tines, the RR140 is gentle on the crop and allows for air flow through the windrows for quicker dry down.
- 2

Hydraulic lift and rake adjustments allow operators in getting up and over windrows and minimize ash content that gets raked into the windrow. Two lift cylinders work off of the same circuit to allow the operator to adjust raking height from the seat of the tractor. There is also a manual crank that allows you to set the rake pitch.
- 3

With a transport width of 6.9 ft (2.1 m), the RR140's perimeter guarding on both sides folds directly up and the 11 arms hook into storage locations on the tongue. This provides ability to transport on narrow roads and through gate openings.

R2300/R2800 TWIN BASKET RAKE SPECIFICATIONS

DIMENSIONS AND WEIGHTS	R2300	R2800
Raking width minimum	18 ft (5.5 m)	19 ft (5.8 m)
Raking width maximum	23 ft (7 m)	28 ft (8.5 m)
Windrow width minimum	36 in (91.4 cm)	30 in (76.2 cm)
Windrow width maximum	72 in (182.9 cm)	84 in (213.4 cm)
Transport width	8.4 ft (2.6 m)	8.5 ft (2.6 m)
Transport length	21.8 ft (6.6 m)	24.8 ft (7.5 m)
Transport height	5.9 ft (1.8 m)	6.9 ft (2.1 m)
Total weight	3220 lb (1460.6 kg)	4540 lb (2059.3 kg)
Tongue weight	1400 lb (635 kg)	1960 lb (889 kg)
Transport wheel size	205/75R14	11L-15
Gauge wheel size	205/75R14	27 x 9.5-15
Drive	Hydraulic	Hydraulic
Tines per basket	120	182
Bars per basket	6	7
Basket length	9.5 ft (2.9 m)	12 ft (3.7 m)
Maximum speed	10 mph (16.1 km/h)	10 mph (16.1 km/h)

TRACTOR REQUIREMENTS		
Minimum tractor horsepower	35 hp (26.1 kW)	70 hp (52 kW)
Hydraulics type	2 double-acting	2 double-acting
Hydraulic pressure	1800 psi (124.1 bar)	1800 psi (124.1 bar)
Hydraulic flow rate	8 gpm (30.3 L/min)	8 gpm (30.3 L/min)

STANDARD DETAILS

- ▶ Handheld controller
- ▶ SMV sign

OPTIONAL FEATURES

- ▶ Highway lights
- ▶ Highway towing safety chain
- ▶ Powered splitters
- ▶ Extended limited warranty
- ▶ Single-side raking (R2800)
- ▶ Basket speed control (R2300)

VR1428/VR2040 HIGH-CAPACITY WHEEL RAKE SPECIFICATIONS

DIMENSIONS AND WEIGHTS	VR1428	VR2040
Raking width minimum	22 ft (6.7 m)	25 ft (7.6 m)
Raking width maximum	28 ft (8.5 m)	40 ft (12.2 m)
Windrow width minimum	36 in (91.4 cm)	36 in (91.4 cm)
Windrow width maximum	72 in (182.9 cm)	72 in (182.9 cm)
Transport width	10.5 ft (3.2 m)	12 ft (3.7 m)
Transport length	31.1 ft (9.5 m)	38 ft (11.6 m)
Transport height	6.3 ft (1.9 m)	6.3 ft (1.9 m)
Total weight	5040 lb (2286.1 kg)	6780 lb (3075.4 kg)
Tongue weight	1300 lb (589.7 kg)	1840 lb (834.6 kg)
Transport wheel size	11L-15	14L x 16.1
Gauge wheel size	11L-15	11L-15
Rake wheel flotation	Hydraulic	Hydraulic
Rake wheel quantity	14	20
Maximum speed	14 mph (22.5 km/h)	14 mph (22.5 km/h)

TRACTOR REQUIREMENTS		
Minimum tractor horsepower	40 hp (29.8 kW)	60 hp (44.7 kW)
Hydraulics	3 double-acting	3 double-acting
Hydraulic pressure	1800 psi (124.1 bar)	1800 psi (124.1 bar)
Hydraulic flow rate	5 gpm (18.9 L/min)	5 gpm (18.9 L/min)
Hydraulic ports	3	3

STANDARD DETAILS

- ▶ Greaseable tapered roller bearings on rake wheels and transport wheels
- ▶ Adjustable hitch
- ▶ 40 teeth per wheel
- ▶ Rake wheel diameter - 55 in (139.7 cm)
- ▶ Rake wheel tooth diameter - .3 in (.7 cm)
- ▶ SMV sign
- ▶ Highway lights

OPTIONAL FEATURES

- ▶ Rake wheel wind discs
- ▶ Center splitter - 2 wheel
- ▶ 10,000 lb (4535.9 kg) safety chains
- ▶ Electric/Hydraulic control kit

VR820/VR1022/VR1224 WHEEL RAKE SPECIFICATIONS

DIMENSIONS AND WEIGHTS	VR820	VR1022	VR1224
Raking width minimum	16.6 ft (5.1 m)	19 ft (5.8 m)	19.91 ft (6.1 m)
Raking width maximum	19 ft (5.8 m)	22.60 ft (6.9 m)	24.40 ft (7.4 m)
Windrow width minimum	31 in (78.7 cm)	19 in (48.3 cm)	21 in (53.3 cm)
Windrow width maximum	80 in (203.2 cm)	82 in (208.3 cm)	98 in (248.9 cm)
Transport width	10 ft (3.1 m)	10 ft (3.1 m)	10.2 ft (3.1m)
Transport length	20.2 ft (6.2 m)	20.17 ft (6.2 m)	23 ft (7 m)
Transport height	9.4 ft (2.9 m)	9.4 ft (2.9 m)	8.5 ft (2.6 m)
Total weight	1370 lb (621.4 kg)	1520 lb (689.5 kg)	1812 lb (821.9 kg)
Tongue weight	200 lb (90.7 kg)	300 lb (136.1 kg)	230 lb (104.3 kg)
Transport wheel size	ST205/75D15	ST205/75D15	ST205/75D15
Toolbar flotation	Rubber torsion	Rubber torsion	Rubber torsion
Rake wheel quantity	8	10	12
Single-side raking	Standard left- or right-side capable	Standard left- or right-side capable	Standard left- or right-side capable
Maximum speed	14 mph (22.5 km/h)	14 mph (22.5 km/h)	14 mph (22.5 km/h)
TRACTOR REQUIREMENTS			
Minimum tractor horsepower	30 hp (22.3 kW)	30 hp (22.3 kW)	30 hp (22.3 kW)
Hydraulic type	1 double-acting	1 double-acting	1 double-acting
Hydraulic pressure	1500 psi (103.4 bar)	1500 psi (103.4 bar)	1500 psi (103.4 bar)
Hydraulic flow rate	5 gpm (18.9 L/min)	5 gpm (18.9 L/min)	5 gpm (18.9 L/min)

STANDARD DETAILS

- ▶ Two 2.5 in x 16 in (6.4 cm x 40.6 cm) lift cylinders
- ▶ Patented rubber torsion toolbar suspension (no tools required)
- ▶ High-clearance frame height
- ▶ Greaseable tapered roller bearings on rake wheels and transport wheels
- ▶ Adjustable hitch
- ▶ Rake angle toolbars for adjustable windrow and raking width
- ▶ Transport lock system - hydraulic locks on cylinders
- ▶ 40 teeth per wheel
- ▶ Rake wheel diameter - 55 in (139.7 cm)
- ▶ Rake wheel tooth diameter - .3 in (.7 cm)
- ▶ SMV sign

OPTIONAL FEATURES

- ▶ Rake wheel wind discs
- ▶ Center splitter - 2 wheel
- ▶ 10,000 lb (4535.9 kg) safety chains

RR140 ROTARY RAKE SPECIFICATIONS

DIMENSIONS AND WEIGHTS	RR140
Raking width minimum	13.8 ft (4.2 m)
Raking width maximum	13.8 ft (4.2 m)
Windrow width minimum	16 in (40.6 cm)
Windrow width maximum	36 in (91.4 cm)
Transport width	6.9 ft (2 m)
Transport length	16.4 ft (5 m)
Transport height	8.5 ft (2.6 m)
Total weight	1800 lb (816.5 kg)
Tongue weight	100 lb (45.4 kg)
Tire size	18 x 8.5-8
Maximum speed	7.7 mph (12.4 km/h)
TRACTOR REQUIREMENTS	
Minimum PTO horsepower	40 hp (29.8 kW)
Hydraulic type	1 single-acting
Hydraulic pressure	1500 psi (103.4 bar)
Hydraulic flow rate	8 gpm (30.3 L/min)

STANDARD DETAILS

- ▶ SMV sign

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