



2018 RAKES

Vermeer



**EQUIPPED TO
DO MORE.**

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-engineering its full line of high-capacity and carted wheel rakes (VR-series) and high-performance twin basket rakes (R-series) with innovations and upgrades to meet tomorrow's challenges. Our focus and solutions are inspired by four key objectives — high-capacity performance, speed, durability and operator conveniences. This produced improvements that 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 very 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 easily. 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 give you the performance you need, including hydraulically-controlled raking widths, windrow widths, basket lift (R2800) and fold/unfold functions. Optional powered splitters rake the center of the swath, so you can sweep 100 percent of the rake width and get maximum consistency throughout the windrow.

Maximum raking widths:

R2300 – 23 ft (7.0 m)

R2800 – 28 ft (8.5 m)

R2300/R2800 TWIN BASKET RAKES



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



2 Fast and easy 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 your hay gets turned and windrowed. Optional powered splitters spread hay in the center of the swath, allowing you to combine it with the rest of the crop and create better 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 to keep running and to keep value long after other models have been retired. In fact, they can actually help produce better bales because they prepare clean, box-style windrows matched to the pickup — regardless of the type of baler you operate.

Take the Vermeer R2300, for example, it's built for higher capacities with 18 ft-23 ft (5.5 m-7.0 m) raking widths and adjustable windrow widths from 3 ft-6 ft (0.9 m-1.8 m) and is designed for speed, efficiency and convenience. It can get you in and out of the field quicker, 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 maximize raking efficiency and custom-shape the windrows to your baler pickup. Optional basket speed control (available on the R2300) also allows you to adjust the raking action of the baskets for different crops and conditions.



- 2** Customize your windrows. Simply 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** Easy to maintain. Rugged, reinforced frames with round cross-section toolbars and grease-free windrow width slide adjustments. More production in the field. Less to maintain.
- 4** Bigger capacities. Six-bar baskets on the R2300 (seven-bar on the R2800) mean better sweeping action, especially in high-volume conditions. Rubber-mounted tines can reduce replacement costs and service time.

Want more capacity, more 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 combine streamlined design and functionality with simple, 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 stronger 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 easy. Simply 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 superior 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 superior vertical travel capabilities and increased flex. The VR1428 flexes 36 in (91.4 cm) down or 48 in (121.9 cm) up.

Tired of replacing wheel rakes after just a couple of years? Raise your expectations with the VR-series carted wheel rakes from Vermeer, and get the extra 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 that make it easy to set up and adjust. Patented rubber torsion suspension design allows you to simply 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 excellent 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 simple.

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 easily raised and lowered when turning tight corners.



- 2** User-friendly adjustments. No tools needed. Industry-wide, many other rakes require tools to make these same adjustments. Adjust windrow widths and arm angles by simply 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 reduces wear and tear on raking tines. Again, no tools are needed to handle the simple pin-setting adjustments.
- 4** Transport made easy. Flat-folding rake wheels reduce height and center folding toolbars reduce width. Hydraulic locks secure the frame. Dual hydraulic lift cylinder pick up arms. Greaseable, tapered roller bearings on both rake wheels and transport wheels help extend bearing life.
- 5** Single-side raking. No problem. Select left- or right-side raking configurations. Enable this feature in seconds without using any tools.

Rake faster and more efficiently, in wet or dry hay, with the all-new 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 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.



RR140 ROTARY RAKE

- 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 (0.9 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 help ensure operators can get up and over windrows and minimize ash content getting 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 down narrow roads and through gate openings.

R2300/R2800 SPECIFICATIONS

DIMENSIONS AND WEIGHTS	R2300	R2800
Raking width minimum	18 ft (5.5 m)	19 ft (5.8 m)
Raking width maximum	23 ft (7.0 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 (1.70 m)	6.9 ft (2.1 m)
Total weight	3220 lb (1461 kg)	4540 lb (2059 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 kW)	70 hp (52 kW)
Hydraulics type	2 double acting	2 double acting
Hydraulic pressure	1800 psi (124 bar)	1800 psi (124 bar)
Hydraulic flow rate	8 gpm (30 lpm)	8 gpm (30 lpm)

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 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 kg)	6780 lb (3075 kg)
Tongue weight	1300 lb (590 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 (30 kW)	60 hp (45 kW)
Hydraulics	3 double acting	3 double acting
Hydraulic pressure	1800 psi (124 bar)	1800 psi (124 bar)
Hydraulic flow rate	5 gpm (19 lpm)	5 gpm (19 lpm)
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 - 0.3 in (0.7 cm)
- ▶ SMV sign
- ▶ Highway lights

OPTIONAL FEATURES

- ▶ Rake wheel wind discs
- ▶ Center splitter - 2 wheel
- ▶ 10,000 lb (4536 kg) safety chains
- ▶ Electric/hydraulic control kit

VR820/VR1022/VR1224 SPECIFICATIONS

DIMENSIONS AND WEIGHTS	VR820	VR1022	VR1224
Raking width minimum	16.6 ft (5.05 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 (3.1 m)
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 kg)	1520 lb (689 kg)	1812 lb (822 kg)
Tongue weight	200 lb (91 kg)	300 lb (136 kg)	230 lb (104 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 kW)	30 hp (22 kW)	30 hp (22 kW)
Hydraulics type	1 double acting	1 double acting	1 double acting
Hydraulic pressure	1500 psi (103 bar)	1500 psi (103 bar)	1500 psi (103 bar)
Hydraulic flow rate	5 gpm (19 lpm)	5 gpm (19 lpm)	5 gpm (19 lpm)

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 - 0.3 in (0.7 cm)
- ▶ SMV sign

OPTIONAL FEATURES

- ▶ Rake wheel wind discs
- ▶ Center splitter - 2 wheel
- ▶ 10,000 lb (4536 kg) safety chains

RR140 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)
Hydraulics type	1 single acting
Hydraulics pressure	1500 psi (103.4 bar)
Hydraulics flow rate	8 gpm (30 lpm)

STANDARD DETAILS

- ▶ SMV sign

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POST-SEASON MAINTENANCE

We know that you count on your equipment to perform day in and day out. Let us help you maintain that high performance with our post-season maintenance programs. Check with your local Vermeer Dealer for exclusive offers each fall including maintenance checks and performance adjustments so you will be ready to go at the start of the next hay season! Programs are offered on select models and vary annually.



HERITAGE

Founded in 1948, Vermeer Corporation is family-owned and markets approximately 100 different agricultural and industrial products worldwide. Come visit and tour our manufacturing operation headquartered in America's heartland, Pella, Iowa.



PARTS

When it's time to make hay, it's time to make hay. That's why we operate on the premise that parts and service support doesn't help tomorrow when you're in the field today. And we support it with one of the most sophisticated and responsive parts centers in the industry.



SERVICE

Expect top service from our independent authorized dealers backed by factory product support service teams. Our mission is to provide you with a level of experience and expertise that goes far beyond product knowledge, sales training and financing programs.



FINANCING

Through Vermeer Credit Corporation you and your dealer can determine a payment structure that fits your budget, schedule and needs. For more information on financing options or retail incentives, visit Vermeer.com or contact your local dealer.

2018 RAKES

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