Combine Harvester VECTOR 425

VECTOR 425 specifications

Headers	
Power Stream[1] Grain Header, m	5/6/7/9
Float Stream Header with flexible cutterbar, m	5/6/7
Swa Pick 342/432 Windrow pickup, m	3.4/4.3
Corn headers, rows	6/8
Sunflower headers, rows	6/8
Reel-to-ground speed synchronisation system	●
Level Glide[2] system	●
Hydraulic multicoupler	●
Crop lifters	○
Autohitch for cart	●
Feeder house	
Feeder house	chain transporter
Threshing	
Threshing unit width, mm	1,200
Drum diameter, mm	800
Drum speed, rpm	420–945
Built-in drum underdrive gearbox	○
Drum rotational speed with underdrive gearbox, rpm	200–450
Concave coverage angle, degrees	130
Concave area, sq. m.	1.10
Concave adjustment	Electrical drive controlled from the cab
Jam Control[3] device	●
Number of straw walkers	4
Straw walker area, sq. m.	5.00
Area of sieves, sq. m.	3.59
Fan speed, rpm	380–1,085
Autonomous rotary type finish-threshing device	●

Grain bunker with unloading device	
Grain bunker capacity, liters	6,000
Unloading speed (not less), l/s	50
Unloading height, mm	3,500
Residue processing	chopper-spreader with swather
Cab	
Comfort Cab II[4] set	●
Agrotronic remote monitoring system	○
Chassis	
Transmission type	Hydraulic GST-112
Transport speed, km/h	0–25
Front wheels tire size	28LR26 (620/70R30 for 3.5m width)
Rear wheels tire size	18,4R24 (480/70R24)
Turning radius, mm	8,900
Engine	
Manufacturer	Cummins/QSB 6.7 (Stage IV)/ B6.7 (Stage V)
Nominal power, kW/hp	168 (228) / 173 (232)
Fuel tank capacity, liters	510
Fuel consumption control system	●
Air compressor	●
Dimensions and mass	
Length/width/height (without header in transport position), mm	8,557/3,560 (3,500)/3,912
Weight (basic model with chopper, without header, no fuel), kg	11,390 ± 340

● – standard, ○ – option

[1] **Power Stream** – universal grain header with increased table, hydraulic reel drive, reaping parts reverse controlled from cabin, reel speed synchronization with the harvester moving speed.

[2] **Level Glide** – spring cushion terrain control in longitudinal and lateral directions.

[3] **Jam control** – system which eliminates the crop flow drum blockage by concave deep release.

[4] **Comfort Cab II** – leaf-spring equipped, pressurized, double-seat cabin with audio system (ready to install), reinforced noise insulation, equipped with air conditioner, heater and cooling box.

Rostselmash reserves the right to improve the individual characteristics of technics without prior notice to market participants

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Combine harvester VECTOR 425

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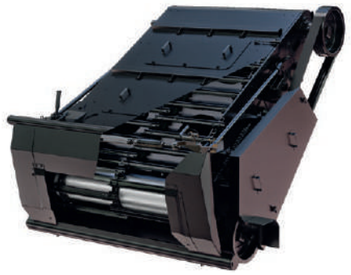
1. Power Stream header

Power Stream header guarantees improved performance by reducing losses and optimal crop gain. This header proved in practice that due to its original cutterbar with a planetary drive minimizes shattering losses and ensures consistent uniform feeding whatever harvesting conditions may be. The reel hydraulic drive featuring a synchrodrive automatically adjusts the reel speed to match the ground speed.

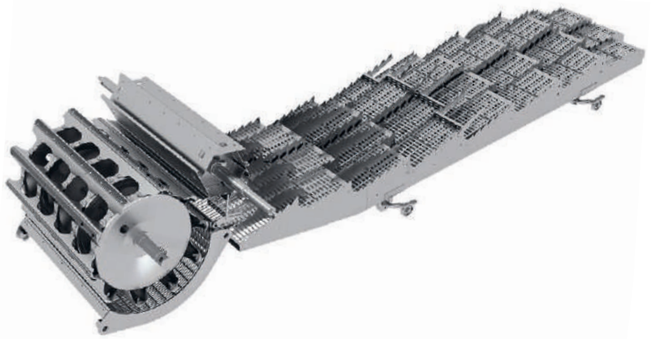
2. Extended feeder house

The new **extended feeder house** has several advantages: a better view of the cutting device, more simple operation for harvesting row crops due to the absence of the intake beater, and a possibility to work with wide angle adapters (for example, 8-row maize header). Hydraulic multicoupler provides fast and easy header attach.



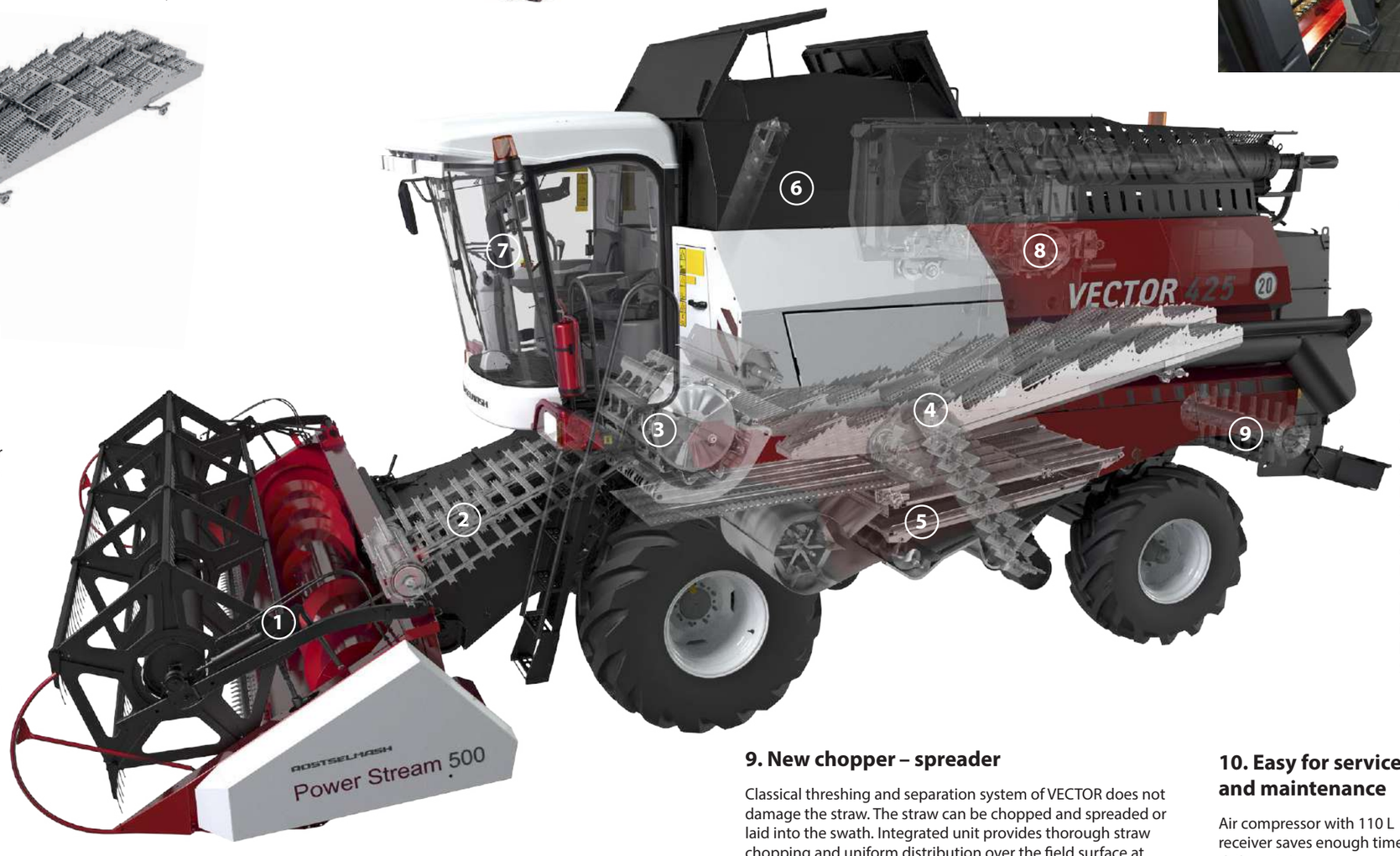
7. Comfort Cab II cabin with Adviser III information system

VECTOR 425 has the Comfort Cab II which was designed for long operating days. A large glass panoramic screens create an excellent view of the header during harvesting.
A standard training seat, cooler, air-conditioner and sun visor are incorporated for the operator comfort.
Information system Adviser III with voice notification controls all main elements to ensure the best productivity.



3. 800mm drum and conventional straw walker

800 mm main drum (largest in the world) and huge concave doubled with four straw walkers (seven steps per walker) provides the best separation of any crops. Autonomous rethresher will care about losses. Specially selected walkers shaft provides maximum separation by its unique shape.



8. Cummins engine 228 hp

VECTOR is equipped with Cummins QSB 6.7 (Stage IV) turbo-diesel engine, L6, displacement 6.7 L, 228 hp (168 kW at 2000 RPM). Operator can control engine RPM easily with button-type switch from the cabin control panel. Torque reserve is up to 20%. Engine electronics fully controls its operation and supplies the fuel amount required by harvester's load (minimum fuel consumption is obtained). The specific fuel consumption has been reduced for 3% in comparison with Stage IIIB engine.

4. Autonomous final threshing device

Usage of rotor type autonomous final threshing device improves threshing and also reduces the load on the main drum. Thus, the harvester high capacity is provided.

5. Effective cleaning

Double-sieved cleaning is used for finest result. Huge gap between finger-equipped preparation sieve and upper sieve substantially improves the main process. Total sieve area comprises 3.59 sq.m. Upper sieve has a technology of "waiving" – combs have different sizes. This patented decision provides more uniform distribution of air flow and prevents sticking of high-awn ears on sieves. The cleaning system uses six-blade fan. Fan speed is regulated from the cabin and displayed on the control panel.

6. Large grain bunker 6 000 L

High-speed unloading device allows to discharge the whole bunker for 2 minutes. For the purpose of wet grain unloading, hydraulic pulsators are installed to exclude the hanging up of the grain.

9. New chopper – spreader

Classical threshing and separation system of VECTOR does not damage the straw. The straw can be chopped and spreaded or laid into the swath. Integrated unit provides thorough straw chopping and uniform distribution over the field surface at the header width as a fertilizer. Chopper»s knives with wear-resistant edges are installed with self-sharpening feature.

10. Easy for service and maintenance

Air compressor with 110 L receiver saves enough time for daily maintenance, especially in field conditions when the service support is not available. In order to reduce maintenance labor hours, the harvester could be optionally equipped with centralized lubricating system, which supplies more than 30 points.