



VFF



Robust performance

**Heavy-duty offset
disc harrows**

**For tractors from
100 to 300 HP**

GRÉGOIRE  BESSON



The VFF concept

Designed with North-American working conditions in mind, heavy duty VFF disc harrows are first class soil and crop residue management tools. The VFF is an excellent choice of tillage tool for primary tillage operations: the unique patented flail discs chop and bury even the heaviest crop residue, while mixing and moving soil uniformly across the whole width of the machine. The VFF is designed to work efficiently in all soil types, with exceptional performances in lighter soils.



Hydraulic drawbar compensation

Heavy-duty VFF discs are equipped with a hydraulic drawbar compensation system (standard equipment). This system has many functions:

- allows to **level the machine front to rear** for an optimum depth adjustment of the front and rear disc gangs;
- **transfers** some of the machine's **weight to the rear tractor tires**; traction is improved and efficiency increases.
- **absorbs shocks** by working in combination with rubber shock absorbers.



Hydraulic drawbar alignment

Every VFF offset disc harrow is equipped with a **standard hydraulic drawbar alignment system**. The hydraulic ram allows the operator to offset the machine behind the tractor to maintain a straight working line and optimize traction force.



Ideal primary tillage

The aggressive work angle of the disc gangs, combined to the unique flail discs design (patent: Javerlhac) produce a high quality job, even in high residue conditions (grain corn) or when dealing with compacted soils. The VFF chops crop residue and mixes it uniformly. The disc shape **reduces the risk of creating a hardpan** and reduces power requirements compared to conventional offset disc harrows.



Disc gang angle adjustment



Front and rear disc gangs angle can easily be adjusted to adapt to varying soil conditions. Front and rear adjustments are independent. **No tool is required and these adjustments can be carried out directly in the field.**

To change the gang angle, simply loosen the two gang handles (1), remove the gang pin (2) and modify the angle with the turnbuckle (3)



Sturdy frame

All VFF disc harrows are built around a **sturdy welded chassis** (2 beams on 8'-10'-12' models and 3 beams on 14'-16'-18' models) to ensure an optimum level of reliability.

Model	Frame size
'8' - 10' - 12'	6" x 4" (150 mm x 100 mm) beams
14' - 16'	7" 3/4 x 4" (200 mm x 100 mm) beams
18'	10" x 6" (250 mm x 150 mm) beams

The disc gangs are mounted on 7" 3/4 x 4" (200 mm x 100 mm) beams.



Patented discs for North-American conditions

Standard equipment on VFF offset disc harrows are **patented flail discs**. These innovative discs are made of a steel treated with manganese and boron to reduce wear and increase durability. The flail disc concept improves residue cutting and mixing. These discs can penetrate even the hardest soils, but require less weight and power than conventional spherical discs. The standard disc spacing is 13" (350 mm).

Type	Diameter	Thickness
Flail (patent: Javerlhac)	32" (810 mm)	3/8" (10 mm)



To ensure a quality finish regardless of operating speed or soil conditions, VFF are equipped from the factory with an **anti-projection disc** on the front gang and a **lobed eraser disc** on the rear gang. Ridges and furrows will no longer be a problem.



Anti-projection disc (front)



Lobed eraser disc (rear)

Built for extreme conditions



The steel bearings are mounted with **2 conical bearing protected by 2 seals**. The seals are designed to evacuate the excess grease. **Maintenance on bearings is minimal** and can be done

in just a few minutes. The discs are mounted on a 2" (50 mm) square shaft and are **bolted for added strength**. Discs are mounted in a spiral pattern which improves soil movement and increases penetration of hard and compacted soils.

A rugged undercarriage

The VFF's undercarriage is **designed and built to North American standards** to simplify maintenance.

Axes	Cap: 8000 lbs	US standard
Hubs	8 holes, greasable	US standard

Many tire options are available on VFF disc harrows: bar thread tires are standard for a good traction and self-cleaning action; implement type tires are available as an option to suit each application and operator's needs.



Tire	Diameter	Width
16.5L 16.1 Bar 10 ply	41" (1040 mm)	16" (410 mm)
16.5L 16.1 Implement 14 ply	41" (1040 mm)	16" (410 mm)



VFF

Standard equipments

- Hydraulic drawbar alignment (1);
- Hydraulic drawbar compensation (2);
- Rubber shock absorbers (3);
- Scrapers;
- Front anti-projection disc;
- Rear lobed eraser disc;
- Clevis for straight tractor drawbar.



Attachements and options

- Turning ring hitch for drawbar hammerstrap (1);
- Parking jack;
- Additional gang bearings;
- Bearing wear guards;
- Weight frame (tractor type);
- Mechanical drawbar alignment;
- Deflectors (2).



Specifications

Model	 X		 Kg		Gang bearings		
					Approximative	Front	
VFF 240	14 + 1 (eraser)	8' / 2.40 m	6600 lbs / 3000 kg	2	2	2	From 100 HP
VFF 300	18 + 1 (eraser)	10' / 3.00 m	8100 lbs / 3680 kg	2	3	2	From 120 HP
VFF 360	22 + 1 (eraser)	12' / 3.60 m	9200 lbs / 4180 kg	2	4	4	From 150 HP
VFF 430	26 + 1 (eraser)	14' / 4.30 m	13200 lbs / 6000 kg	4	6	4	From 170 HP
VFF 490	30 + 1 (eraser)	16' / 4.90 m	13700 lbs / 6220 kg	4	6	4	From 190 HP
VFF 540	32 + 1 (eraser)	18' / 5.40 m	14700 lbs / 6700 kg	4	6	6	From 220 HP

Grégoire-Besson has a policy of continuous product improvement. The company reserves the right to modify the design, materials or specifications of its machines at any time, without notice and without the obligation to implement these modifications on machines already sold.

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