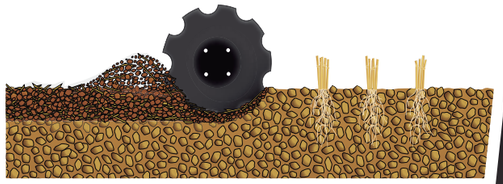
MULTI-PROPOSE DISC HARROWS

When performance is important

High productivity, lower fuel consumption, low maintenance and an adequate preparation of the worked surface are the strengths of Bernardin's line of multi-propose disc harrows.

These equipments are suitable for working at high speeds, low depth and where it is necessary to incorporate large quantities of stubble, straw without problems of clogging between the discs, in a work of preparation for the seedbed or doing mechanical fallow.

The range of multi-propose disc harrows includes mounted and trailed models, in working widths ranging from 2.5m to 6m, with multiple options that can be combined to adapt the equipment to the conditions that each farmer demands.

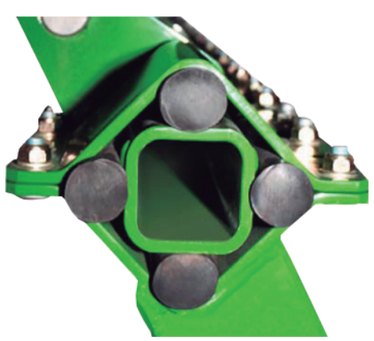


Our main advantages

- Complete program of suspended equipment from 3 to 4m, and trailed models between 4 and 6m.
- Maintenance-free disc bearings
- Optimum capacity for seedbed preparation.
- High productivity due to operating speeds of up to 18 km/h
- Discs designed to incorporate large quantities of green matter
- A wide variety of rear rollers to suit all soil conditions
- Working capacity with minimum fuel consumption and low power requirement
- Rubber buffers on each individual disc for better soil copying
- Optional hydraulic depth adjustment with scale showing the working depth
- Possibility of equipping the 3-6m wide working models with the cover crop planter
- Possibility to set the crossing between disc rows to achieve a good soil tillage, even under the most arduous conditions.

Discs with individual suspension

All harrows models have an individual protection system with four rubber pads whose main advantage is to allow each of the discs to copy evenly. The individual suspension of the discs makes it possible for large quantities of organic mass to move between the disc lines without clogging compared to the arrangement and suspension of the discs in pairs, and is also maintenance free.

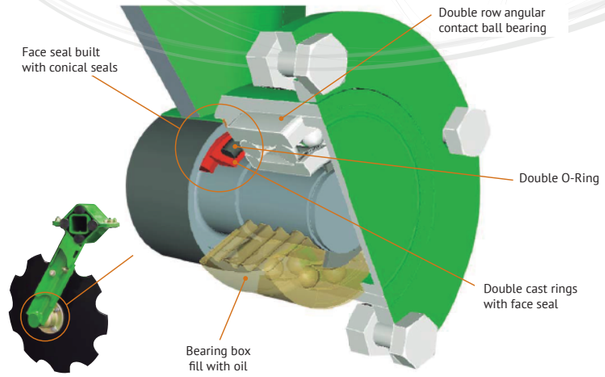


Optimal adjustment of the disc row

Thanks to the compact and simple structure, the adjustment work on the equipment is minimal. In case of extreme conditions of use, it is possible to adapt the position of the rows of discs according to the needs of the moment.
Thus, if the soil is not tilled over its entire surface, you can optimize the displacement and wear of the discs by moving the support plates of the disc packs against the chassis, or by means of a threaded register in the case of the TITAN model.

Maintenance-free disc bearings

No greasing of the disc bearings is required, which greatly reduces the overall maintenance work. Slip ring seals have been used for decades in the rolling machinery of tracked vehicles with total reliability, even under extreme conditions.



Stubble management as active crop care

A shallow pass over the stubble crop encourages weed seeds to germinate. At the same time, chopped straw, stubble or roots still in the field are incorporated and mixed with the soil to promote rapid decomposition.
During dry summers, stubble cultivation offers another benefit: it loosens the topsoil, breaking capillary action and reducing evaporation to retain moisture in the soil. The first pass of stubble cultivation is sometimes followed by a deeper pass, which serves to mechanically control emerging cereals and weeds.
Organic or granular fertilizers can be incorporated at the same time, prior to planting. This soil management is an active form of crop care, as it reduces the use of chemicals in the next crop. Bernardin disc harrow are a reliable partner in complete soil management, even when working with lodged cereal sprouts, corn straw or crops with large green plant mass. While the vast majority of growers, especially those with short row spacing, soon reach their limits in this type of environment, Bernardin products ensure intensive mixing of soil and regrowth, even in the most difficult conditions.

Tubular roller

Roller 500mm all-purpose roller. Best suited to light, non-stony soils in dry conditions. Ensures a seedbed for a predefined working depth. By leaving the soil loose, it generates excellent conditions for seeding.

V-ring roller

Especially recommended for very hard soils.
The construction of the rings works the soil leaving in its path strips that favor infiltration.
The cutting ring sections guarantee the work by breaking up the soil clods.

Flat Bars Rollers

Similar to the tubular construction. Its design consists of flat bars fixed transversely with a flat edge. It is distinguished by its good conditions of lump removal and smoothing of the surface layer.

U-ring rolo

It has very similar properties to the V-ring. Its advantage is the filling of the space in the ring profile, which protects it from excessive contact with the soil and protects it against rapid wear. A beam with scrapers can be used to prevent the roller from clogging with soil.

Technical specification

Double line of discs - Individual arms with rubber shock absorbers - Registrable side screens

Working width	3.0 mts	3,5 mts	4.0 mts
Weight	1400 Kg	1500 Kg	1750 Kg
Quantity of discs	24	28	32
Power requirement	90-120 Hp	100-130 Hp	120-180 Hp

Working width	4.0 mts	4,5 mts	5.0 mts	6.0 mts
Hydraulic cylinders	4	4	4	6
Weight	2300 Kg	2500 Kg	2800 Kg	3100 Kg
Quantity of discs	32	36	40	48
Power requirement	130-160 Hp	140-160 Hp	150-190 Hp	170-200 Hp

Working width	5.0 mts	6.0 mts
Weight	3800 Kg	4100 Kg
Quantity of discs	40	48
Power requirement	150-180 Hp	180-210 Hp

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DISTRIBUTOR

Multi-propose disc harrows