

BERTHOUD®

MAJOR

25

32

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Efficiency, reliability, profitability

for the **Manager Farmer**

The **MAJOR** 2500 and 3200 litres perfect your spraying while taking care of:

-  **your CROPS**
-  **your SAFETY**
-  **your COMFORT**
-  **the ENVIRONMENT**
-  **your INVESTMENT**



The MAJOR receives the "AXIALE" boom range of 24, 28 and 30 metres. (see leaflet AXIALE BOOM).



1 - The lid of 400 mm diameter manhole is fixed on a hinge, and so cannot be lost. Also it eliminates all potential risk of pollution due to tank overflow through this orifice.



2 - Floating level gauge with direct read-out, visible from the tractor and from the filling point. Optionally, and notably with the Gestronic, the MAJORs can accommodate the Nivelec electronic gauge.



3 - In order to rinse out the tank after every application, a "Lav'ton" system is standard equipment on your sprayer. Do not forget to rinse out your tank between each spraying session.



4 - As standard equipment, the MAJORs are supplied with a protective under-sheet so that, in periods of late spraying, the vegetation may slide easily under your sprayer.



5 - On all the hydraulic functions, flow limiters enable the sprayer to be adapted easily to the oil flow and pressure of your tractor's hydraulic circuit.

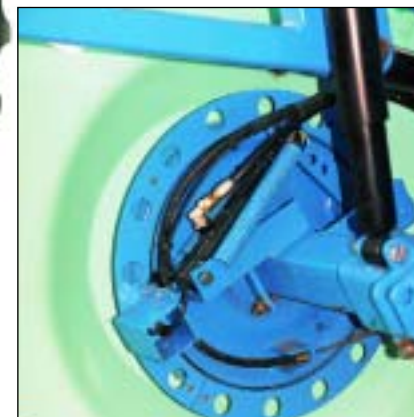
What is the use of a suspension system, even the best ...

... without the best CROP SPRAYING MACHINE ?



D.P. TRONIC

Electronic regulation by the second generation, D.P. TRONIC keeps you constantly informed of the conditions of your spraying: volume/hectare, ground speed, pressure at the boom, volume sprayed.



6 - As optional equipment, your sprayer can be equipped with a hydraulic braking system. Parking brake is standard. Input of information concerning ground speed is carried out on one of the wheels by a 16 impulse proximity sensor in order to obtain more accurate data.



7 - 1/4 turn stainless steel motorised ball valves to resist inclement weather and the various chemical products applied, including, specifically, liquid fertilisers.



8 - In order to facilitate the maintenance of your sprayer, BERTHOUD recommends only one filter, 1/4 turn, at return to tank. As an option, if you wish, each section can receive an additional filter.

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1 - Retractable chemical hopper, which is at man height at the time it is used and does not damage the vegetation during spraying; The hopper has a system which rinses chemical containers with a rinsing circuit. At the bottom a grill eliminates any blockage problems caused by caps and packaging.



3 - Hand wash tank with a capacity of 18 litres, as per the European Community directives. It enables the operator to rinse himself in case of contamination by chemical products.

2 - A retractable ladder with non-slip steps enables access to the manhole in total security.



5 - Berlogic: Simplicity, ergonomics, reliability, for this start-up aid for your sprayer. A general chart groups together the operations that can be carried out: you just need position each valve on the number of the desired operation.

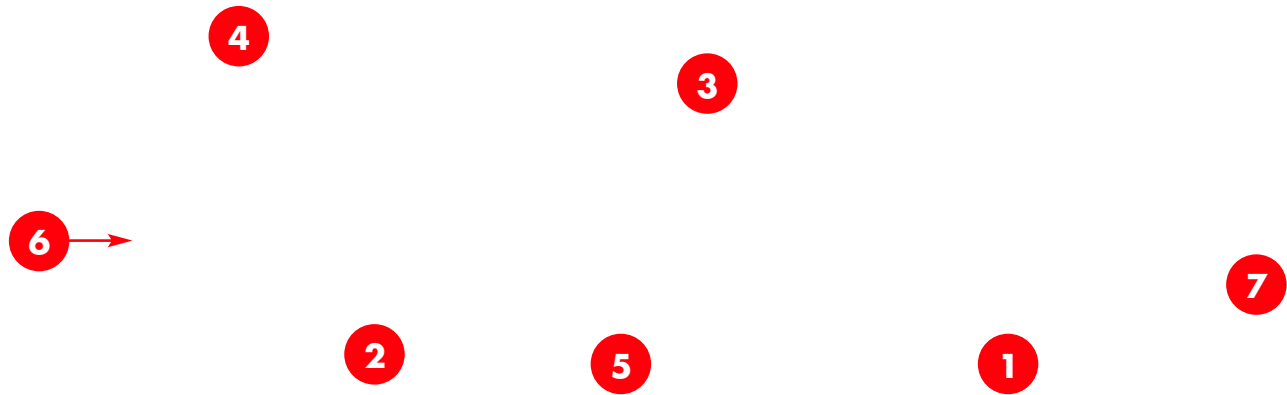
4 - A 280 litres rinse tank is standard equipment on the MAJOR. This capacity enables the circuit to be rinsed out immediately after spraying and before carrying out a thorough cleaning at the farm chemical store.



6 - Technical area:

Maintenance and after sales service are essential operations throughout the life of your sprayer.

In order to facilitate the operations, the technical area at the front of your MAJOR is totally accessible.



The basic MAJOR has a rigid drawbar. On OPTION, you have the choice between:
 - A drawbar with variable height adjustment.
 - A hydraulic drawbar with and without reset to zero (see mounting procedure on attached sheet)
 - A tracking drawbar with reset to zero for MAJOR equipped with AXIALE ED boom.

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BERTHOUD has thought of everything which concerns you: **ROBUSTNESS, RELIABILITY, ERGONOMY, PRECISION, SPRAYING ENVIRONMENT, SAFETY.**



Monobloc type chassis ensuring, by its rigidity, great integrity for the total machine. All the steel parts of the sprayer are protected by a U.H.R. (Ultra High Resistance) coating after shot blasting, phosphate coating, and furnace treatment of the steel elements.

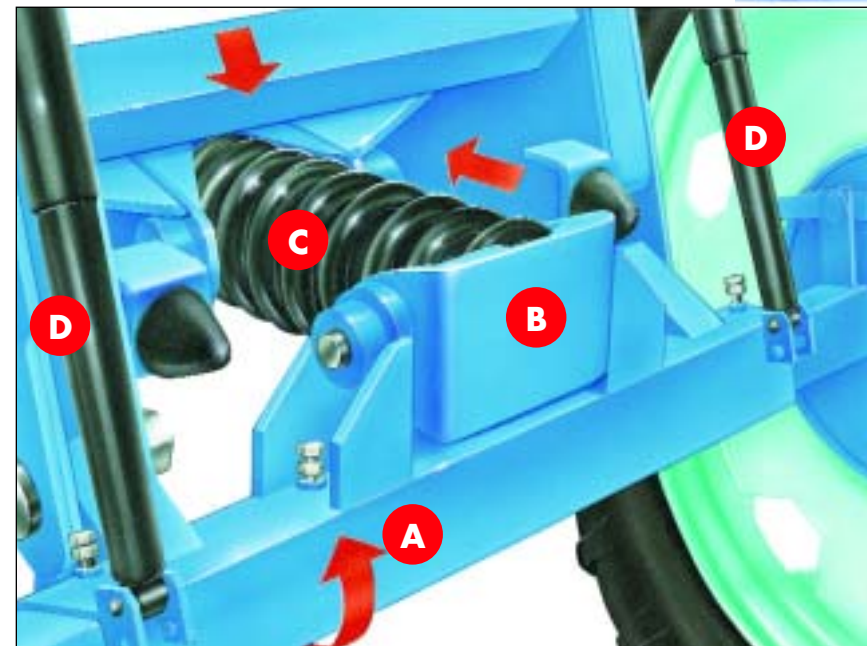
Fixed drawbar fitted with standard hitching. Optional steering and tracking drawbar..

Full road lighting to conform with the current standards.

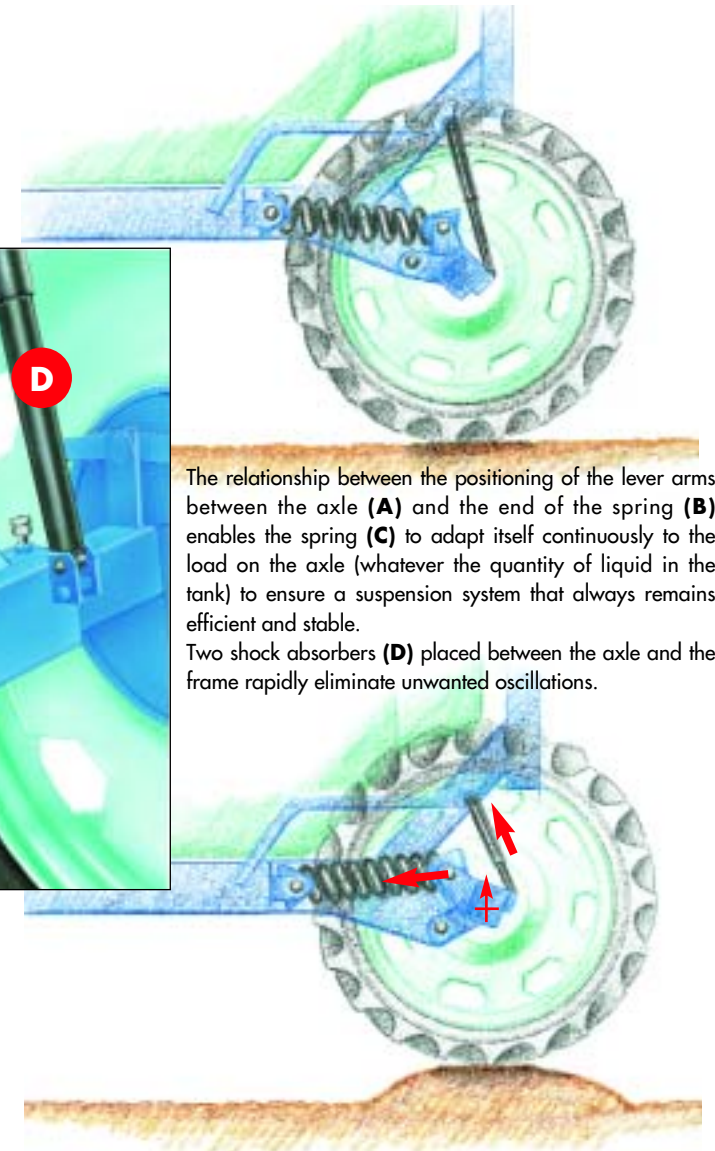
Main tank of 2500 or 3200 litres (+ 5%) is, as the rinse and hand wash tanks, made in high density polyethylene.

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ACTIFLEX Suspension



Patented, "ACTIFLEX" is the first suspension of its kind, utilising non-proportional spring reaction to obtain variable response according to the load and the constraints applied to the axle. A lever arm between the axle and the end of the spring enables the spring to continuously adapt to the load and maintain optimum suspension.

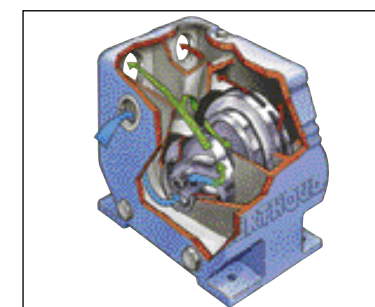


The relationship between the positioning of the lever arms between the axle (A) and the end of the spring (B) enables the spring (C) to adapt itself continuously to the load on the axle (whatever the quantity of liquid in the tank) to ensure a suspension system that always remains efficient and stable. Two shock absorbers (D) placed between the axle and the frame rapidly eliminate unwanted oscillations.



GESTRONIC

The GESTRONIC provides you also with a means of managing, both cumulatively and also individually, your applications by date, product, and field.



DELTA Pump

A rotary twin-turbine pump with double output. Low pressure for the functions of filling and agitation. Medium to high pressure for all spraying functions.



NOZAL Nozzles

QUADRIX nozzle bodies with membrane anti-drip device, accept a comprehensive range of KWIX Bayonet Fit. (ISO standard nozzles)

TECHNICAL SPECIFICATIONS

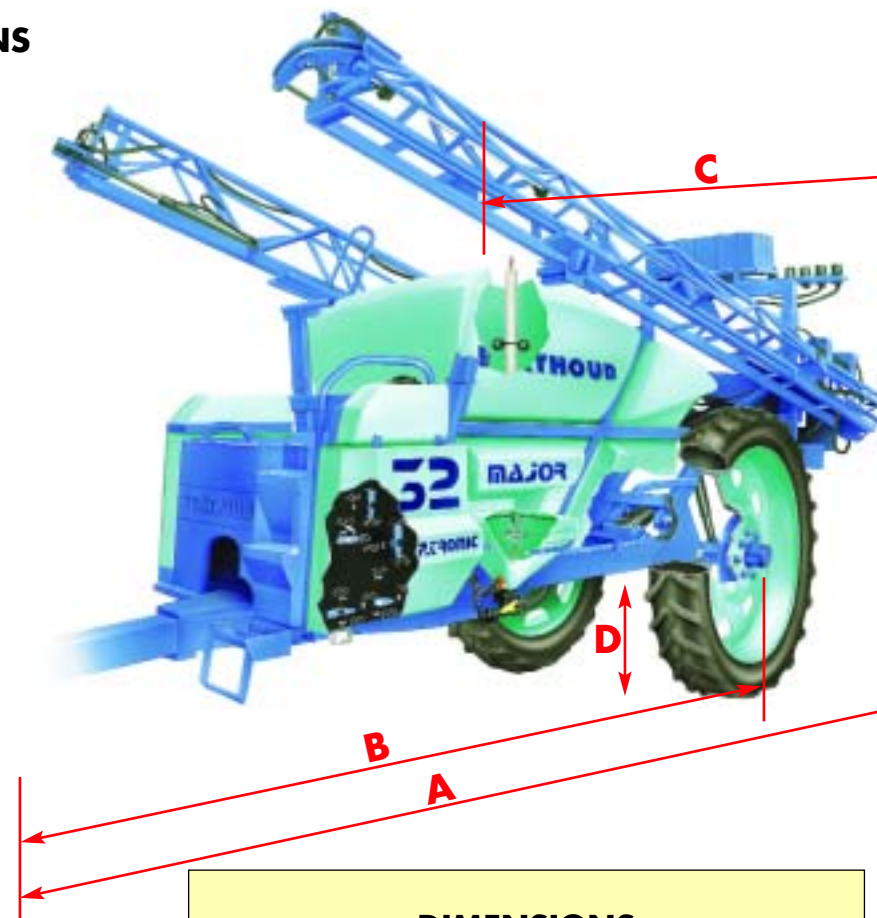
- ACTIFLEX suspension
- Fixed drawbar
- Tanks:
 - Main tank of 2500 or 3200 litres
 - 18 litres hand wash tank
 - 280 litres rinse tank
- Under tank protective sheet
- DELTA pump
- BERLOGIC control panel start-up aid
- Section motorised valves
- D.P. TRONIC regulation
- "Lav-ton" internal tank rinsing
- Floating gauge
- OPTIONAL EQUIPMENT
 - GESTRONIC spraying management
 - NIVELEC electronic gauge
 - Steering drawbar
 - Tracking drawbar
 - Independent hydraulic feed
 - Hydraulic brakes

● Tyres:

	2500	3200
9,5 x 44	X	
9,5 x 48	X	X
13,6 x 38	X	X
11,2 x 48	X	X
12,4 x 46	X	X
16,9 x 38	X	X

● Spraying booms:

	D.P.Elec Berjust 2000	DPA Télévolux	D.P TRONIC
AXIALE 24/12 SEH	X	X	X
AXIALE 28/14 SEH	X	X	X
AXIALE 24/12 GV - ED	X		
AXIALE 24/12 GV - ED	X		
AXIALE 24/18/12 - ED		X	X
AXIALE 28/21/14 - ED		X	X
AXIALE 24/18/12 GV - ED		X	X
AXIALE 28/11/14 GV - ED		X	X
AXIALE 30/23/17 GV - ED		X	X



DIMENSIONS

- Total length **(A)** = 5865 mm
- Axle/drawbar end length **(B)** = 4335 mm
- Overall width with folded boom **(C)**:
 - AXIALE 24 or 28 metres boom = < 2500 mm
 - AXIALE 30 metres boom = < 3000 mm
- Under frame clearance **(D)** = 750 mm (+/-50 mm)
- Track width:

	mini	maxi
9,5x44 - 9,5x48 - 11,2x48	1550 mm	2100 mm
13,6x38 - 16,9x38	1700 mm	2100 mm
- Under nozzle clearance:

	mini	maxi
	650 mm (+/-50 mm)	2300 mm (+/-50 mm)

WEIGHTS

- | | 2500 | 3200 |
|--------------------------|---------|---------|
| ● Without boom | 1965 kg | 2025 kg |
| ● With AXIALE 24 GV boom | 2690 kg | 2750 kg |
| ● With AXIALE 30 GV boom | 2970 kg | 3030 kg |



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