

**BERTHOUD®**

**RACER**

**classic**

berjust 2000 - dp control

dpa - dp tronic

**20**

**25**

**32**

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# 3 20-25-32



- efficiency and profitability for the “MANAGERIAL” FARMER

- “precision” and “simplicity” for COMPETITIVE FARMING

# WITH THE “classic” RACERS, TAKE CARE OF :

- your crops,
- your safety,
- the environment.



## DRAWBAR



## TECHNICAL AREA



The RACER is equipped with a rigid drawbar as standard. OPTIONAL configurations :

- Drawbar adjustable in height.
- A hydraulic steering drawbar for sloped terrain (with boom controlled by ED).
- A tracking drawbar with automatic reset for reducing damage to row crops.

**GAUGE**



**MANHOLE**

Hinged, 1/4 turn cover

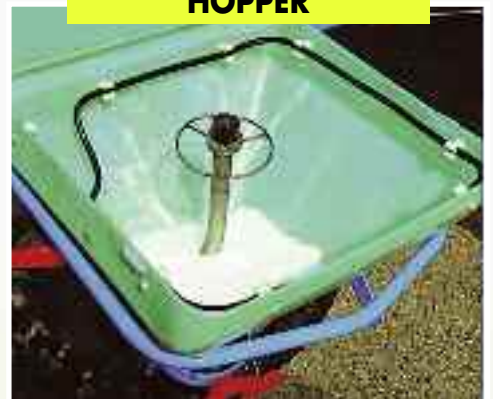
**15 litres HAND WASH**



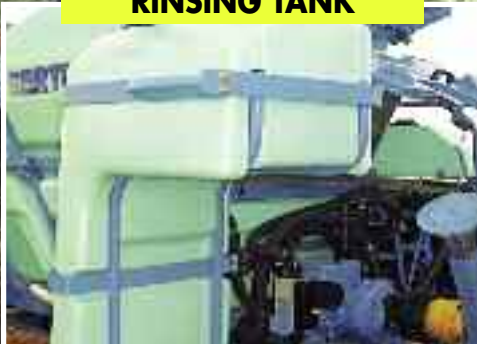
**CONTAINER RINSE**



**HOPPER**



**RINSING TANK**



120 litres capacity as standard, 280 litres optional.

**BERLOGIC**



Ergonomic workstation on RACER D.P. TRONIC.

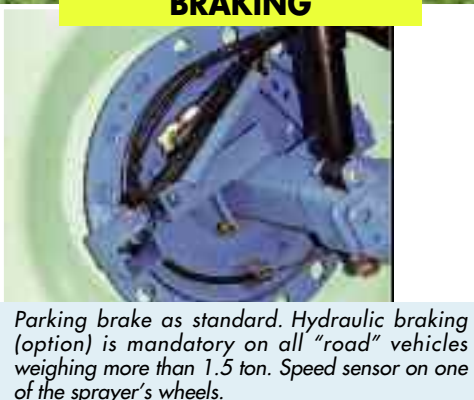
**TANK WASH**



**PLATFORM ACCESS**



**BRAKING**



Parking brake as standard. Hydraulic braking (option) is mandatory on all "road" vehicles weighing more than 1.5 ton. Speed sensor on one of the sprayer's wheels.

**NITROGEN SHOCK ABSORBER**



Mounted on the boom pantograph as standard.

# THROUGH ITS RANGE OF

● volumes : 2,000, 2,500 or 3,200 litres.

● control modules : Berjust 2000, D.P. CONTROL, DPA, D.P. TRONIC.

● and booms : RCSI 24, AXIALE 24, 28 et 30 meters.

# BERTHOUD anticipates your requirements

## BOOMS

The RACER can be equipped with 2 boom types (depending on model and capacity) :

- **RCSI 24 meter booms** with SELF-STABILISING suspension, 2 control rods, and opening/closing by S.E.H. (Electro-Hydraulic function selector).

- **"AXIALE" 24 - 28 et 30 meter booms** with axial suspension at the boom mass' centre of gravity.

Opening/closing, tilt or geometry control can be made by S.E.H. (Electro-Hydraulic function selector) or by E.D. (Electrodistributor).

In all cases, the controls are grouped together on the control box which also includes, amongst others, the spraying controls.



The Racer "Classic" is equipped with a **mechanical DPA**.

Just a single setting is needed to obtain the volume/hectare by the VOLUX metering pump, driven by the sprayer's wheel.

Volume/hectare is controlled by varying the piston travel of the VOLUX pump.



### BERJUST 2000

A spray controller featuring the spray and boom controls on a single unit by electro-hydraulic selector or simply by electro-hydraulic distributor.

Volume/hectare, speed, hectares treated, litres sprayed... the four functions available on the BERJUST 2000 which uses a flowmeter.

(Refer to the BERJUST 2000 documentation)

## CONTROLLERS



### BERTRONIC

A new range of electronic controls which are comprehensive, accurate, informative, user-friendly and adaptable.

- **D.P. CONTROL** : a true spray monitor/control by flowmeter.

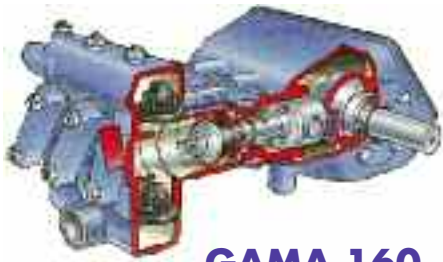
- **D.P. TRONIC** : second generation of electronic spray control by pressure sensor.

In both cases, you have the choice between total simplicity or managing 10 different plots in terms of the following cumulative data :

litres sprayed, actual number of hectares treated, distance travelled. Both the D.P. CONTROL and D.P. TRONIC feature the spray and boom operation controls. These operations are relayed either by electro-hydraulic selector (S.E.H.) or by electro-distributors (E.D.).

(Refer to the BERTRONIC documentation)

## PUMPS



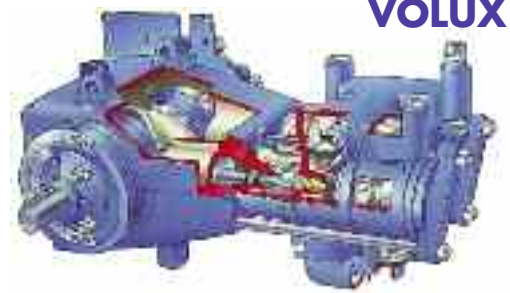
**GAMA 160**

High performance positive displacement pump. GAMA pumps guarantee the precision of your manual or assisted D.P.M. control. The oil bath mechanism, and stainless steel valves offer easy maintenance and thus reliability.



**DELTA**

Dual-turbine rotary pump (2 stages) with a single circuit for all treatment types up to 8 bar (namely in the case where air injection nozzles are used) by maintaining a sufficient output at the boom and constant slurry agitation.



**VOLUX**

Positive-displacement pump with 2 dual-action pistons. Driven mechanically by the sprayer's wheel, it meters the quantity of slurry required according to the volume/hectare selected. Regardless of the ground speed, the gear ratio, slurry viscosity, the volume/hectare remains constant irrespective of nozzle characteristics and tank return.

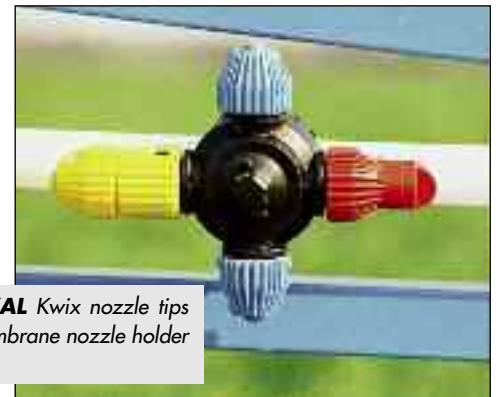
## VALVES AND FITTINGS



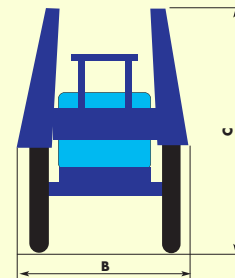
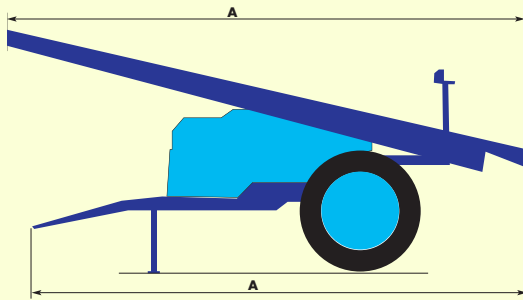
**Electrically-controlled valves** : electrically-controlled valves are used to control the spraying sections. General shut-off is ensured by shutting all the sections. In the case of DPM and DPA controls, the electrically-controlled valves feature a calibrated tank return. Valve controls are grouped together on BERJUST 2000, D.P. CONTROL and D.P. TRONIC controllers.

A complete line of 1/8 turn **NOZAL** Kwix nozzle tips completes the QUADRIX blocjet membrane nozzle holder assembly.

## NOZAL NOZZLES



## DIMENSIONS AND WEIGHT



Model	RACER 2000		RACER 2500		RACER 3200	
<b>Boom</b>	RCSI 24	AXIALE 24	AXIALE 24	AXIALE 28	AXIALE 24	AXIALE 28
Overall length (A)	6,10 m	6,10 m	6,10 m	7,10 m	6,10 m	7,10 m
Overall width (B)	2,50 m	2,55 m	2,55 m	2,55 m	2,55 m	2,55 m
Overall height (C)	3,00 m	3,30 m	3,36 m	3,77 m	3,36 m	3,77 m
Unladen weight	2210 Kg	2260 Kg	2520 Kg	2620 Kg	2570 Kg	2670 Kg

Dimensions and average weights are given in terms of standard equipment, options and tyres.

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