

Characteristics of the tractor to pull the Delfino3 plough of the Vallerani System:

A 240 hp wheel tractor is needed to pull the Delfino3 plough (weights 2 Tons).

The tractor must be fitted with:

- **6 spline PTO and 1000 r.p.m.**
- **Mono-polar socket 12 VDC**
- **3 couples of auxiliary double effect distributors**
- **Maximum ballast (total weight must achieve 10 Tons)**
- If it is planned to work sloping land (possible up to 25%) it is important to have **hubs to enlarge the track**
- The tractor (without plow) must achieve a **minimum weight of 10 Tons** (achieved also through the ballast).
If the tractor is lighter, during plowing the wheels can spin on the ground or be lifted from the soil. So the tractor and the plough won't work well and the tires wear out very quickly.
This problem would not only occur while ploughing but especially when the two ripper go deeper than the ploughshare to make the water harvesting pocket. During this movement the plough and the tractor make, even in rather sandy soil, a big effort.
- The long field experience has shown that the "air operated trailer brakes" that can be taken as an accessory to the tractor is very useful for both: servicing of the tractor and the plow and solving problems related to tires drillings.

To ensure continuity of work we recommend to order the amount of spare parts needed for the planned hectares of work for each year. This amount is based on expected labor, soil characteristics, care and diligence (see list). However at the purchase of the tractor we recommend an amount equal to about 5% of its cost.