



VARIABLE RATE SPREADER **MOD. 150 VRT** CLAUDIO PONTREMOLESI



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Variable rate spreader Mod. 150 VRT "Claudio Pontremolesi"

At a time when we are witnessing a steady decrease in the buying costs of telemeasured data, the new frontier in precision agriculture is represented by machines equipped with "Geographic Intelligence", i.e. able to differentiate the work they carry out in non-homogeneous areas of the vineyard. Differentiated distribution within the same plot of land must be based on information relating to localising areas with different requirements. Supply with differentiated volumes brings advantages both from an economic point of view and an environmental one, as well as attaining better uniformity within the vineyard, which is desirable for the quality of the end product and for better mechanised management of all farming operations, which benefit from situations where vegetation is homogeneous.

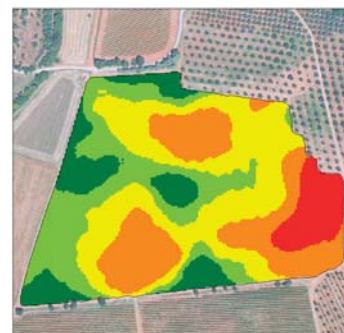
Our company has developed the variable rate fertilizer spreader for precision viticulture. In order to do this we propose to create georeferenced prescription maps relating to the variability of vigour factors attainable from telemeasuring (with the NDVI index). Having high resolution multispectral data at our disposal, it is possible to obtain a series of thematic maps relatively simply and economically, which allow us to understand the variability of the plot in detail. This solution is particularly appealing, given the fact that it is thought that raw data for processing into vigour maps will be available on the web at extremely low prices or even for free, in the next few years. Using special software, you can also obtain prescription maps quickly and flexibly, which serve as a veritable operative field program for variable rate machines. The thematic map obtained and processed on the reserve of collected data, must be inserted into the GIS (Geographic Information System) and the agronomist in charge of making decisions about fertilization will have to decide on the doses of fertilizer to assign to each prescription class.

The electronics of this machine use the new ISOBUS standard. This is the term used to refer to the ISO 11783 standard "tractors and machinery for agriculture and forestry: serial control and communications data network." Thanks to the ISOBUS system, a single graphic terminal (defined by the standard as a Virtual Terminal) placed on board the tractor can control all the compatible ISOBUS tools and handle variable rate maps, automatically sending the indications of change in dose to the ISOBUS part on the side of the machine, when the machine moves from one area to another with a different prescription. It is the first variable rate fertilizer spreader for vineyards in the world ever to be put on the market. The strong points of this project lie in the following three aspects:

Better agronomical practice because the land is treated according to its needs, with the aim of obtaining vegetative uniformity that favours mechanization and therefore a rise in quality and a reduction in costs at the same time. A direct reduction in costs because less fertilizer is used. Bearing this economy in mind, the cost of the equipment can be covered starting from roughly seventy hectares of vineyards. A low environmental-impact approach due to the drastic reduction of nitrogen fertilizers where they are not absolutely necessary to the crop.



Aerial photography



Prescription map

Class	Area
Low	- 0.56 ha
	- 1.84 ha
	- 2.46 ha
High	- 1.82 ha
	- 1.03 ha



DICKEY-john Virtual Terminal



SAME i-Monitor

TECHNICAL FEATURES

- Width: 1,60 m.
- Capacity: about 780 litres
- Localised surface distribution: under the two rows
- Weight: 120 Kg.
- Speed: 3/6 km/h

In order to improve the characteristics and performances of their equipment, SPEZIA s.r.l. reserves the right to changes the specifications without notice.

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