

## Exhibition

### **Ernst Herbst Prüftechnik e.K. - Plant protection equipment, test engineering, agricultural technology**

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#### **Summary**

Ernst Herbst Prüftechnik e.K. is the leading manufacturer of test equipment for testing sprayers in Europe. Measurement devices for every kind of plant protecting equipment is produced and delivered worldwide using a network of distribution partners. On the occasion of SPISE 3 the Company Ernst Herbst Prüftechnik e.K. was showing some devices of its test equipment program.

#### **Products**

- The company Herbst is producing following equipment:
- Sprayertest 1000 horizontal distribution test equipment 1 m working width (figure 1)
- Sprayertest 2000, horizontal distribution test equipment 2 m working width
- ED20/900EL, single nozzle test bench electronic
- ED16/2L-K, single nozzle test bench mechanical
- ROT-650/16/10, pump test device from 7,5 up to 1200 l/min (figure 2)
- ROT-650/60/40/10, pump test device from 7,5 up to 1200 l/min
- ROT-1200/10/10 pump test device from 7,5 up to 1200 l/min
- VV3000, vertical distribution test equipment (figure 3)
- VV3500. vertical distribution test equipment
- For manometers testing or pressure testing Herbst is the only manufacturer worldwide who delivers an electronic measuring device gauged according to the German law of gauging with a measuring range from 0 up to 60 bar and an accuracy of 0,01 bar.
- For testing nozzles according to the French guidelines, Herbst is offering a measuring device with a measuring range from 0,3 l/min up to 7 l/min. The device is equipped with a water tank and a special pump. This pump is able to create a pressure of up to 10 bar with an absolutely constant discharge. An electronic pressure measurement with automatic measuring function is standard extend of delivery. This device is able to save the results automatically and transfer to the computer wireless.

All test equipment from Herbst meets the conditions of EN 13790. Test equipment, which is used for the official sprayer inspection, is approved by JKI. For the pressure measurement the display device is easily removable and by adapters connected to the sprayer which is tested. The French Institute CRODIP checked the accuracy of this measuring device and it is admitted for the use in France.

To all electronic test equipment Herbst is delivering a complete operating and protocol software. The printable test reports are according to the demands of EN 13790 and it is no problem to adapt it to special demands of different countries.

The software is multilingual and is to be delivered in the wished national language. For manufacturer of sprayers the software can be delivered in a changeable language format. Optional the test reports can be printed in the language the customer wants to. In this case the tester always is working in his native language and for the print, he is able to select in a list between different languages. Even it is possible to print one test report in different languages.

Also for manufacturer of sprayers Herbst is offering an expanded data base to save all components of one unit.

To make the work easier for the tester Herbst is offering a software module for fast selection of test reports according testing time or sticker. The function form letter makes it possible to write invitations to customer for the next testing sprayers.

To make the national controlling of the sprayer testing easier, Herbst is offering the online transfer of the test results directly of the test station towards a central server.

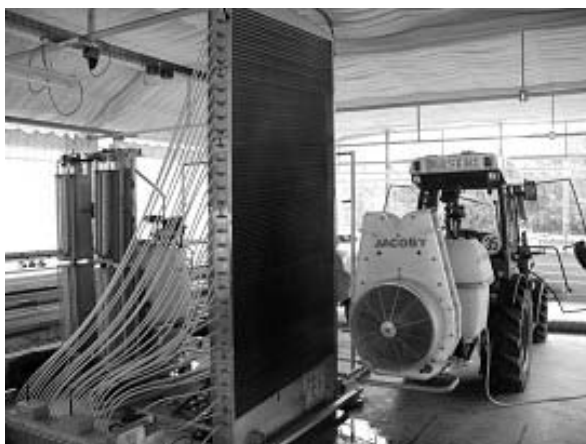
The controlling authority has got an internet access to this data base and is able, by an analysis software, to make special selections. Already in 1995 this online version was developed for the Beratungsring Südtirol (Italy) and is also used by German test stations in Bavaria, North Rhine-Westphalia, Hessen and Thuringia. This proceeding was introduced during the SPISE workshop in an own lecture.



**Fig. 1** Sprayertest 1000 at work



**Fig. 2** Little presentation of testing devices in Brno.



**Fig. 3** Testing an atomizing sprayer with a vertical distribution test bench.

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