

Engineering office **Kragten Design**

For the development of small wind turbines and KD-reports about wind energy

December 2017



Wind turbine type VIRYA-1.8

Kragten Design is a one man engineering office founded in 1989 and directed by ing. (B.Sc.) Adriaan Kragten. A C.V. is available on request. At this moment I am 70 years old and I am retired for about five years now. During the last four years almost no commercial activities were performed so in December 2017 I decided to completely stop the commercial activities. This means that I will no longer accept paid engineering work and that the licences of my bigger wind turbines for which a licence fee was asked, are no longer available. I am also no longer a wind energy PUM-expert and will therefore no longer visit PUM-projects.

However, Kragten Design still exists and certain activities will be continued as long as possible. The focus is now on the distribution of the KD-reports about different technical aspects of small wind turbines. 62 reports can be copied for free from my website at the menu KD-reports. A folder with all the public KD-reports and a folder "Sequence of KD-reports for self-study" are given at the top of the menu KD-reports. Several manuals are given at the bottom of this menu.

Seven small free VIRYA designs are available without paying for a licence. An extended specification and a folder of these VIRYA wind turbines are given on the website at the menu VIRYA-folders.



Free wind turbine VIRYA-1.04

Adriaan Kragten worked from 1975 until 1990 as a mechanical designer in the Wind Energy Group of the Faculty of Physics of the University of Technology Eindhoven, member of CWD, Consultancy services Wind energy Developing countries. CWD focused on water pumping windmills but many reports from that time are no longer available. Four options how water can be pumped with a windmill are given in the public report KD 490. For every option there are several KD-reports with detailed information.

Kragten Design (KD)

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