opTex- Weave densities

Software for the weaving product development

Product description

OpTex- Weave densities is a collection of applications, which many well-known in practice and summarizes calculations used. The results can be compared with those from **WeaveStruct** and own experiences.

The application contains the following elements:

1. Weave density after Walz-Luibrand (Fig. 2):

The parameters used here are fiber fibrous / substrate in the warp and weft thread densities, a selection of bindings (weaves) and yarn counts. The calculated fabric density is, however, no direct information on the actual max. weaving. It can be compared only to see which design is set denser or less dense.

2. Sultex Weave-heaviness (Fig. 2):

In addition to the under 1 used parameters you will also find the reed width are processed.

3. Benchmark density after Flück (Fig. 3):

This formula is focused exclusively on cotton fabric or similar structures. A limited selection of bindings (weaves) is available to calculate.

4. Cover factor (Fig. 4):

It covers only cotton fabrics or appropriate designs for a limited selection of bindings (weave) but also the weaving width.

5. Optex-Leno weave (Fig. 5):

Here you can often relied on various leno weave (2-thread, Multithreaded, single weft, multi weft, mixed-weft) will be used for density calculations, both for flat gauze strips as well as tie-off. Gradually allows the yarn density and yarn count change in weft, to immediately obtain a result.

(The most accurate weave density calculation, however, is only in weaving **WeaveStruct**. There are introduced all the relevant data.:

- fiber / substrate,
- yarn density in warp and weft,
- yarn count, even in mixed use,
- flexibility (stiffness) of the yarns used,
- Air content of the yarns / threads,
- All bindings terms of choice, even multi-layer structures with or without a bond,
- yarn density ratios warp / weft,
- different stresses / tensile forces, etc.

The program can be used both as a separate application a s well integrated in **WeaveStruct**. In the latter case, the application is called by **WeaveStruct** and all relevant yarn data are transmitted automatically.

System requirements

OpTex-weave density is a 32-bit programming for the (IBM compatible) PC created and runs under Windows XP, Vista and 7. The application is installed as a single user.

The program is designed for a screen resolution of1280 x 1024or above .An adaptation from a high resolution is recommended. The color depth to 32bit(true color) set.
What is needed is to install a CD-ROM drive as well as a mouse pointing device

Subject to change

Development - Copyright

Prof. Martin Kienbaum
Nürnberger Str. 34
D-95448 Bayreuth
Tel. +49 921/50705955
Fax +49 921/50705956
www.Kienbaum-Webereitechnik.de
www.Kienbaum-Gewebebindungen

Sales - Distribution
CH-Consulting
Breslauer Str. 6
D-95497 Goldkronach
Tel. +49 9273 574 913
Mob +49 176 24 969 867
www.weavestruct.de
E-Mail: weavestruct@gmail.com

Regional Agent 區域代理:
A&A Consultant 香港A&A諮詢
www: www.hkaac.net
@: info@hkaac.net ☎: +852-9023 4800
PO Box 143,Tung Chung, HONG KONG (香港)

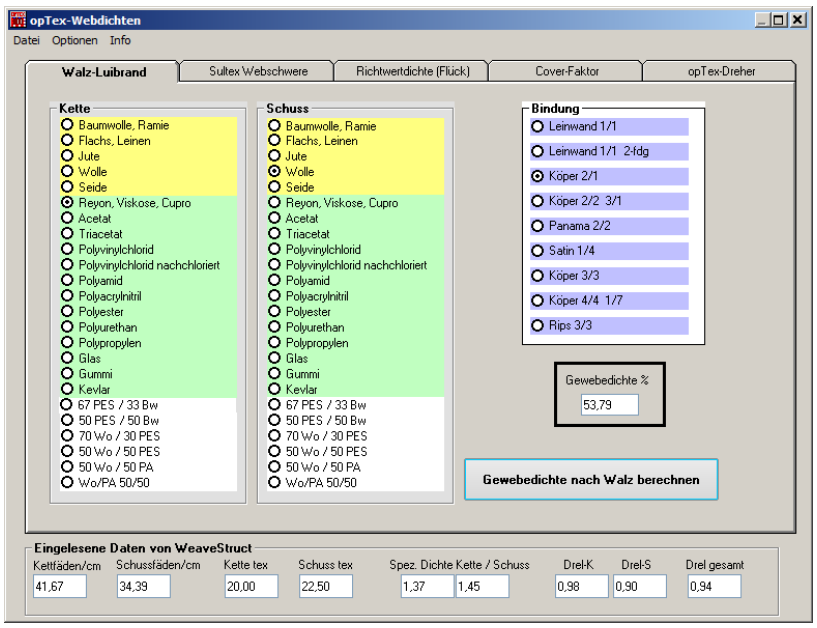

Abb. 1: Calculation of fabric density after Walz-Luibrand

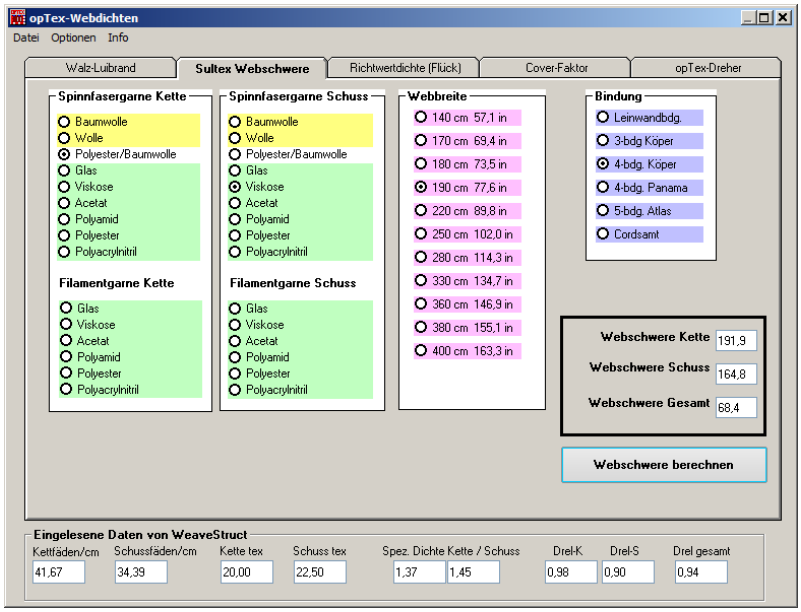

Abb. 2: Calculation of the Sulzer density

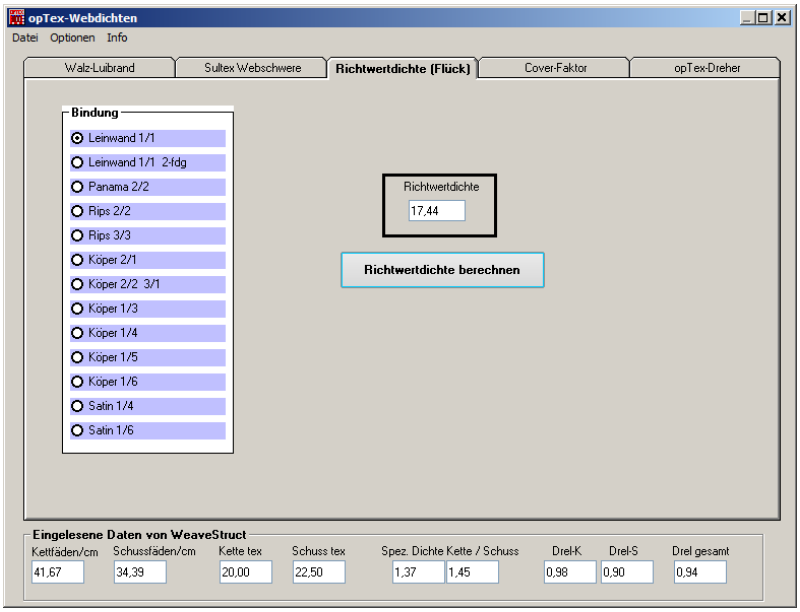

Abb. 3: Calculation, the benchmark density after Flück

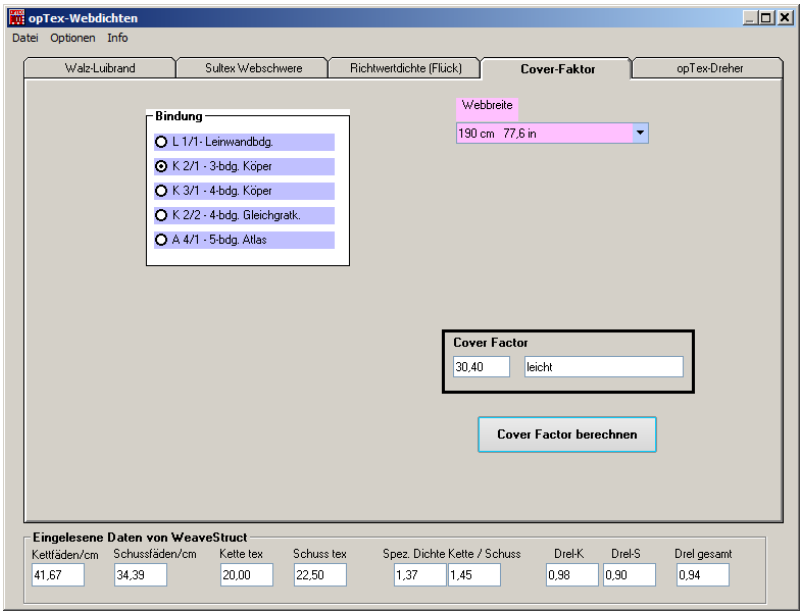

Abb. 4: Calculation of the cover factor

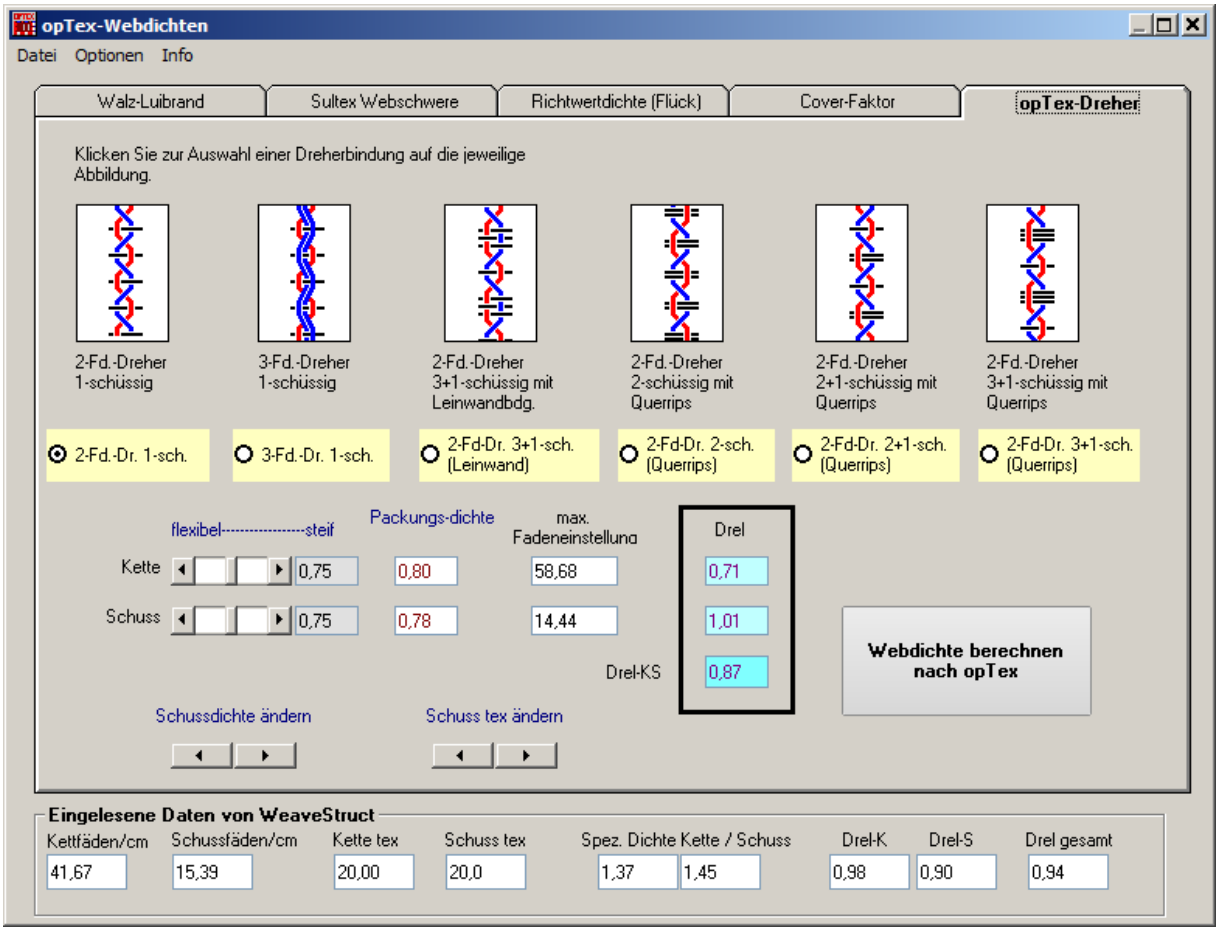

Abb. 5: Density calculations of leno fabrics and Selvedges